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Water Resources Data Colorado Water Year 1998

Volume 2. Colorado River Basin

By R.M. Crowfoot, N.L. Bruce, J.W. Unruh, J.T. Steinheimer, G.F. Ritz, M.E. Smith, R.A. Jenkins, and G.B. O'Neill

Water-Data Report CO–98–2

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

UNITED STATES DEPARTMENT OF THE INTERIOR

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1999

CALENDAR FOR WATER YEAR 1998

1997

OCTOBER

S	M	T	W	T	F	S
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5	6	7	8	9	10	11
12	13	14	15	16	17	18
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NOVEMBER

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1998

JANUARY

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FEBRUARY

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AUGUST

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SEPTEMBER

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PREFACE

This volume 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.

This report 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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Water-resources data for Colorado for the 1998 water year consist of records of stage, discharge, and water quality of streams; stage, contents, and water-quality of lakes and reservoirs; and water levels and water quality of wells and springs. This report (Volumes 1 and 2) contains discharge records for 316 gaging stations, stage and contents of 26 lakes and reservoirs, discharge measurements for 1 partial-record low-flow station and 1 miscellaneous site, peak flow information for 29 crest-stage partial-record stations; water-quality for 118 gaging stations and for 8 lakes and reservoirs, supplemental water-quality for 192 gaged sites; water-quality for 72 miscellaneous sites and 14 observation wells; water levels for 3 observation wells, and meteorological data for 25 sites. Seven 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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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.)

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VOLUME 2: COLORADO RIVER BASIN

By R.M. Crowfoot, N.L. Bruce, J.W. Unruh, J.T. Steinheimer, G.F. Ritz, M.E. Smith, R.A. Jenkins, 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 169 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 14 lakes and reservoirs; (3) surface-water-quality data for 68 surface-water stations, 4 reservoirs, 64 miscellaneous sites, and miscellaneous surface-water-quality data for 109 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. Three pertinent stations operated by bordering States also are included in this report. 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-98-2." 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.

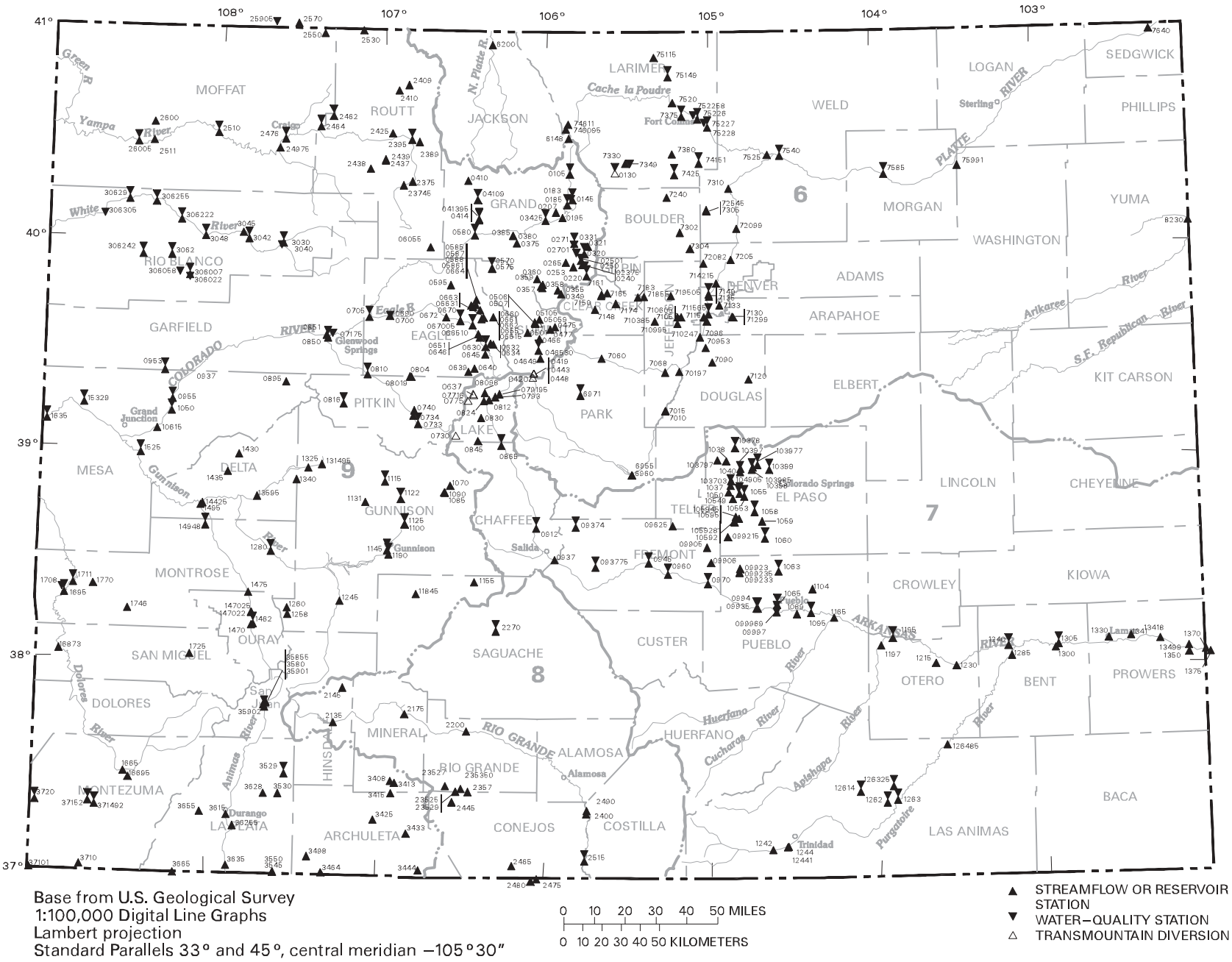


Figure 1.--Map showing locations of lake and surface-water stations and surface-water-quality stations in Colorado.

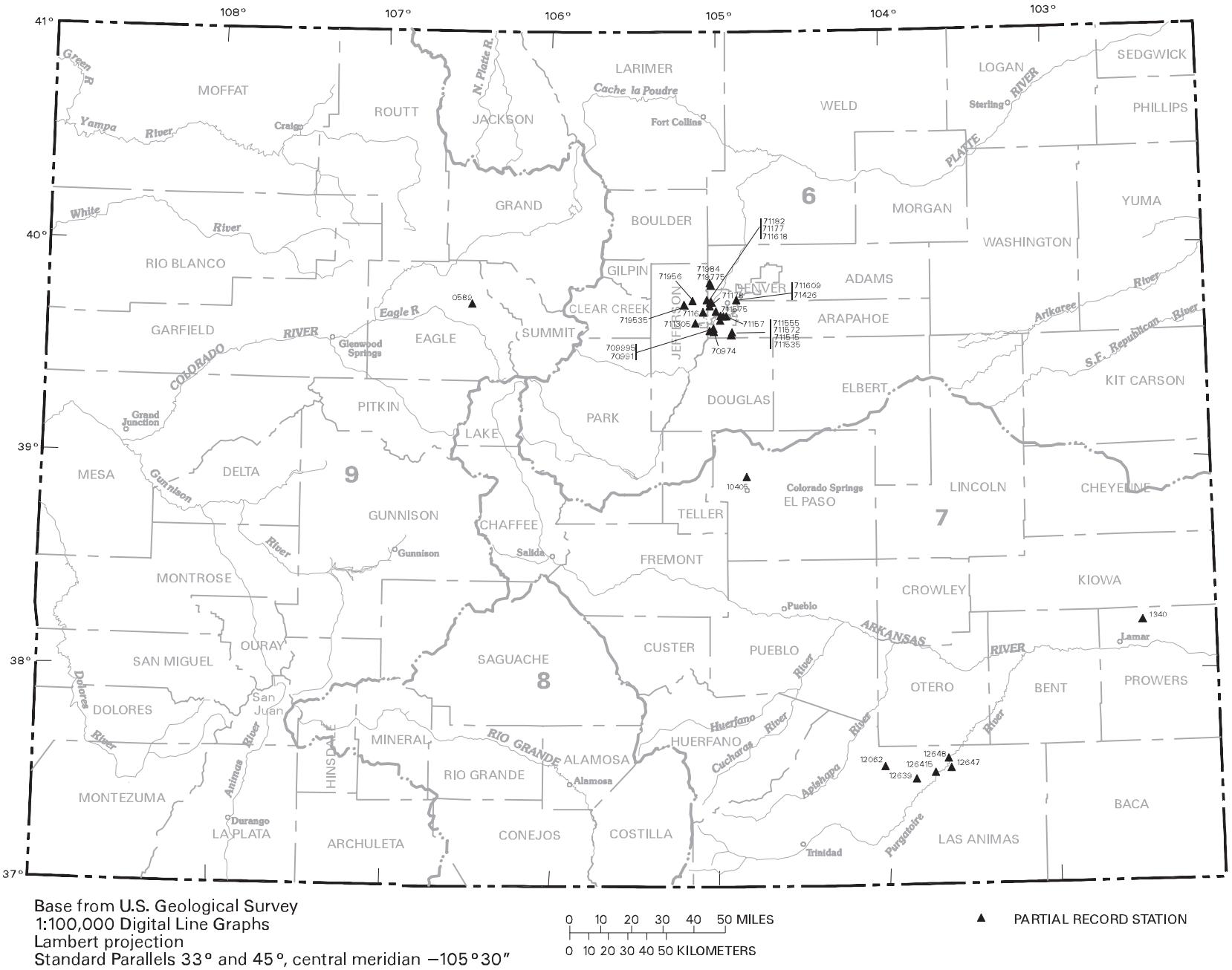


Figure 2.--Map showing locations of crest-stage partial-record stations in Colorado.

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 1998 water year are:

Arapahoe County, Water and Wastewater Authority.
Arkansas River Compact Administration.
Centennial Water and Sanitation District.
Cherokee Metropolitan District.
City and County of Denver, Board of Water Commissioners.
City of Aurora.
City of Black Hawk.
City of Boulder.
City of Broomfield.
City of Colorado Springs.
City of Englewood.
City of Fort Collins.
City of Glendale.
City of Golden.
City of Gunnison.
City of Idaho Springs.
City of Lakewood.
City of Longmont.
City of Louisville.
City of Loveland.
City of Pueblo.
City of Westminster.
Clear Creek Board of County Commissioners.
Colorado City Metropolitan District.
Colorado Department of Public Health and Environment.
Colorado Department of Transportation.
Colorado Division of Parks and Outdoor Recreation.
Colorado Division of Water Resources.
Colorado Division of Wildlife.
Colorado River Water Conservation District.
Colorado Springs Department of Public Utilities.
Crested Butte South Metropolitan District.
Delta County Board of County Commissioners.
Dolores Water Conservancy District.
Eagle County Board of Commissioners.
Eagle River Water and Sanitation District.
East Grand County Water-Quality Board.
Evergreen Metropolitan District.
Fountain Valley Authority.
Gilpin County.
Gunnison County.
La Plata County.
Lower Fountain Water-Quality Management Association.
Meeker Sanitation District.
Metro Wastewater Reclamation District.
Moffat County.
Mount Crested Butte Water and Sanitation District.
Northern Colorado Water Conservancy District.
Northwest Colorado Council of Governments.
Park County.
Pueblo Board of Water Works.
Pueblo West Metro Water District.
Rio Blanco County Board of County Commissioners.
Rio Grande Water Conservation District.
Southeastern Colorado Water Conservancy District.
Southern Ute Indian Tribe.
Southwestern Colorado Water Conservation District.
St. Charles Mesa Water District.
Summit County.
Teller - Park Soil Conservation District.
Town of Basalt.
Town of Breckenridge.
Town of Crested Butte.
Town of Empire.
Town of Hotchkiss.
Town of Meeker.
Town of Rangely.
Town of Vail.
Trinchera Water Conservancy District.
Upper Arkansas River Water Conservancy District.
Upper Eagle Regional Water Authority.
Upper Gunnison River Water Conservancy District.
Upper South Platte Water Conservancy District.
Upper Yampa Water Conservancy District.
Urban Drainage and Flood Control District.
Yellowjacket Water Conservancy District.

Financial assistance was also provided by the 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; U.S. Forest Service; and U.S. Environmental Protection Agency. Organizations that supplied data are acknowledged in station descriptions.

OVERVIEW OF HYDROLOGIC CONDITIONS
[West of the Continental Divide]

Prepared by M.E. Smith and G.F. Ritz

Precipitation

Precipitation data for water year 1998 were obtained from published reports of the U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, for the National Weather Service division in Colorado that is west of the Continental Divide (table 1). Precipitation and departures-from-normal precipitation (1961-90) are listed for the first 6 months (October-March) of the water year when precipitation is predominately snow and for the remaining 6 months (April-September) when precipitation is predominately rain. Also listed are the precipitation and departure-from-normal precipitation for the entire water year.

During October-March, precipitation was 5 percent less than normal for the Colorado Drainage Basin. During April-September, precipitation was 16 percent less than normal for the basin.

Graphs of monthly precipitation for the water year and for normal monthly precipitation at selected weather stations are shown in figure 3. Monthly precipitation data for water year 1998 were supplemented with ancillary information obtained from the Colorado State University, Department of Atmospheric Science, Colorado Climate Center, in Fort Collins.

Table 1. Precipitation during water year 1998 and departures-from-normal precipitation (1961–90), in inches

National Weather Service division	October–March		April–September		Water year 1998	
	Precipitation	Departure from normal	Precipitation	Departure from normal	Precipitation	Departure from normal
Colorado Drainage Basin	7.40	-0.40	7.00	-1.35	14.40	-1.75

Streamflow

Monthly mean discharges during water year 1998 at selected streamflow-gaging stations are compared to long-term (reference period through previous water year) mean monthly discharges in figure 4. Individual graphs show the varied streamflow west of the Continental Divide during the water year. Streamflows during water year 1998 were not unusually higher or lower than long-term mean streamflows and the graphs indicate that monthly mean discharges during the water year had general temporal trends similar to the long-term mean monthly discharges. Annual mean discharges for 1998 ranged from 15 percent less than the long-term mean (gaging station 09114500, Gunnison River near Gunnison) to 38 percent greater than the long-term mean (gaging station 09304500, White River near Meeker). For water year 1998, the graphs indicate that the highest monthly mean discharges occurred in May or June at all selected gaging stations, which is consistent with the long-term trends at these sites.

For May and June 1998, the 2-month mean discharge was 27 percent less than the long-term, mean 2-month discharge at gaging station 09070000, Eagle River below Gypsum; 24 percent less at gaging station 09114500, Gunnison River near Gunnison; 4 percent less at gaging station 09163500, Colorado River near Colorado-Utah State line; by 4 percent less at gaging station 09172500, San Miguel River near Placerville; 15 percent greater at gaging station 09251000, Yampa River near Maybell; by 32 percent greater at gaging station 09304500, White River near Meeker; and 14 percent less at gaging station 09361500, Animas River at Durango. Variations of spring 1998 monthly mean discharges from the long-term mean monthly discharges are attributed to variable snowpack and temperature conditions during the period of snowmelt runoff.

Peak discharges during water year 1998 and for the period of record (through previous water year) for selected gaging stations are listed in table 2. Water year 1998 peak discharges were less than the 25th-percentile value for the period of record at gaging stations 09070000, Eagle River below Gypsum; 09085000, Roaring Fork River at Glenwood Springs; 09114500, Gunnison River near Gunnison; 09149500, Uncompahgre River at Delta; and 09239500, Yampa River at Steamboat Springs. Water year 1998 peak discharges at the other gaging stations listed in table 2 were within the middle 50 percent of the long-term discharge distribution.

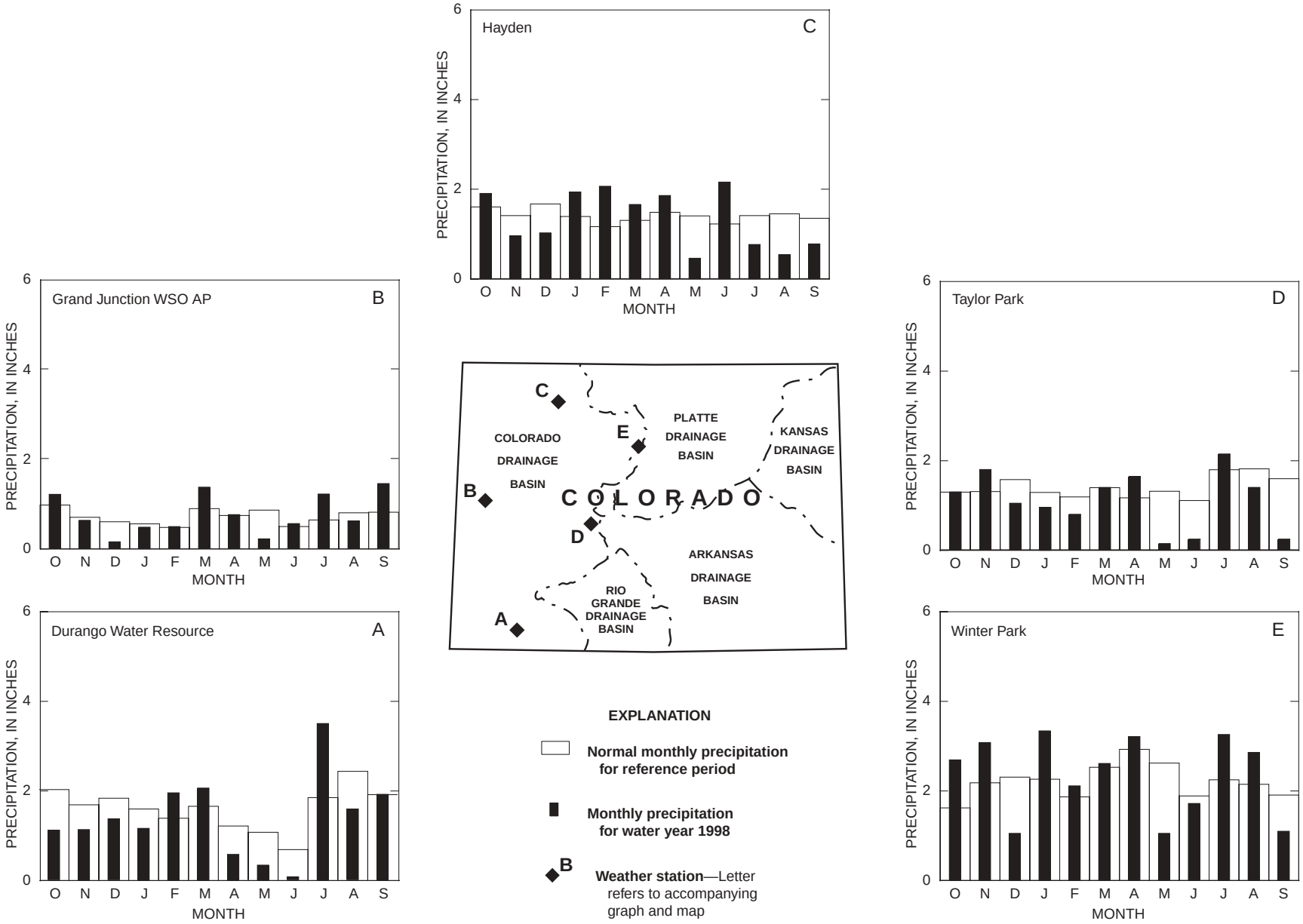
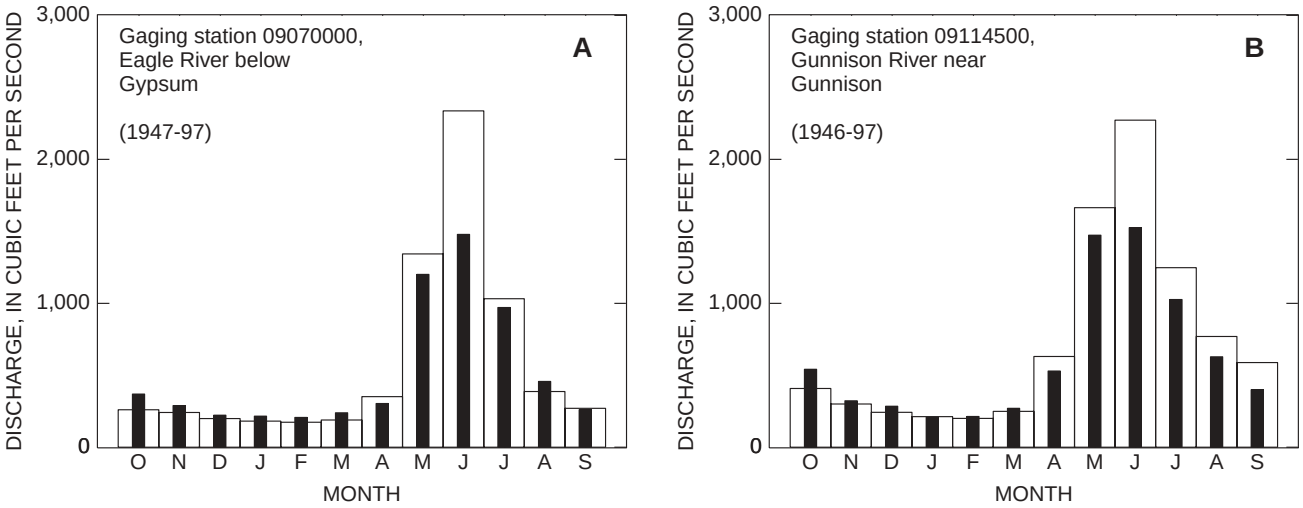


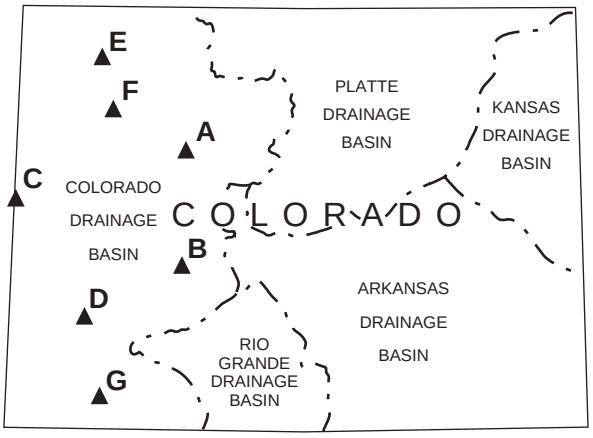
Figure 3.--Comparison of monthly precipitation for water year 1998 to normal monthly precipitation for the reference period 1961–90.

Table 2. Peak discharges for water year 1998 and for the period of record at selected gaging stations

[mi^2, square miles; ft^3/s, cubic feet per second; WY, water year]

Gaging-station identification		Drainage area (mi^2)	Period of record (water years)	Water year 1998		Period of record		Remarks on WY 1998 peak discharge
Station number	Station name			Date	Peak discharge (ft^3/s)	Date	Peak discharge (ft^3/s)	
09034250	Colorado River at Windy Gap near Granby	789	1982-97	7/2	1,450	5/25/84	5,260	Less than median
09070000	Eagle River below Gypsum	945	1947-97	6/3	2,680	5/25/84	7,020	Less than 25th percentile
09070500	Colorado River near Dotsero	4,394	1941-97	6/2	7,550	5/25/84	22,200	Greater than 25th percentile
09085000	Roaring Fork River at Glenwood Springs	1,451	1906-09, 1911-97	6/2	5,530	7/1/57	19,000	Less than 25th percentile
09085100	Colorado River below Glenwood Springs	6,013	1967-97	6/2	12,800	5/25/84	31,500	Greater than 25th percentile
09095500	Colorado River near Cameo	8,050	1934-97	6/2	15,700	5/26/84	39,300	Greater than 25th percentile
09114500	Gunnison River near Gunnison	1,012	1911-27, 1945-97	6/3	2,490	6/13/18	11,400	Less than 25th percentile
09132500	North Fork Gunnison River near Somerset	526	1934-97	5/21	3,380	5/24/84	9,220	Less than median
09149500	Uncompahgre River at Delta	1,115	1903-31, 1939-97	4/25	1,110	5/15/84	5,800	Less than 25th percentile
09152500	Gunnison River near Grand Junction	7,928	1897-99, 1902-6, 1917-97	5/22	10,600	5/23/20	35,700	Less than median
09163500	Colorado River near Colorado-Utah State line	17,843	1951-97	5/22	26,100	5/27/84	69,800	Less than median
09166500	Dolores River at Dolores	504	1896-1903, 1911-12, 1922-97	5/22	3,610	10/5/11	10,000	Greater than median
09171100	Dolores River near Bedrock	2,145	1970-97	5/7	3,940	4/30/73	9,500	Less than median
09239500	Yampa River at Steamboat Springs	604	1904-6, 1910-97	5/21	2,780	6/14/21	6,820	Less than 25th percentile
09251000	Yampa River near Maybell	3,410	1904-5, 1916-97	5/22	10,700	5/17/84	25,100	Greater than median
09304500	White River near Meeker	755	1901-5, 1910-97	5/22	3,620	5/25/84	6,950	Less than 75th percentile
09346400	San Juan River near Carracas	1,230	1962-97	5/22	2,790	9/6/70	9,730	Greater than 25th percentile
09361500	Animas River at Durango	692	1912-97	6/3	4,040	10/5/11	25,000	Greater than 25th percentile





EXPLANATION

Mean monthly discharge for reference period

Monthly mean discharge for water year 1998

H **Gaging station**—Letter refers to accompanying graph and map

(1925-97) **Reference period**

Figure 4.--Comparison of monthly mean discharges for water year 1998 to mean monthly discharges for the reference periods indicated on the individual graphs.

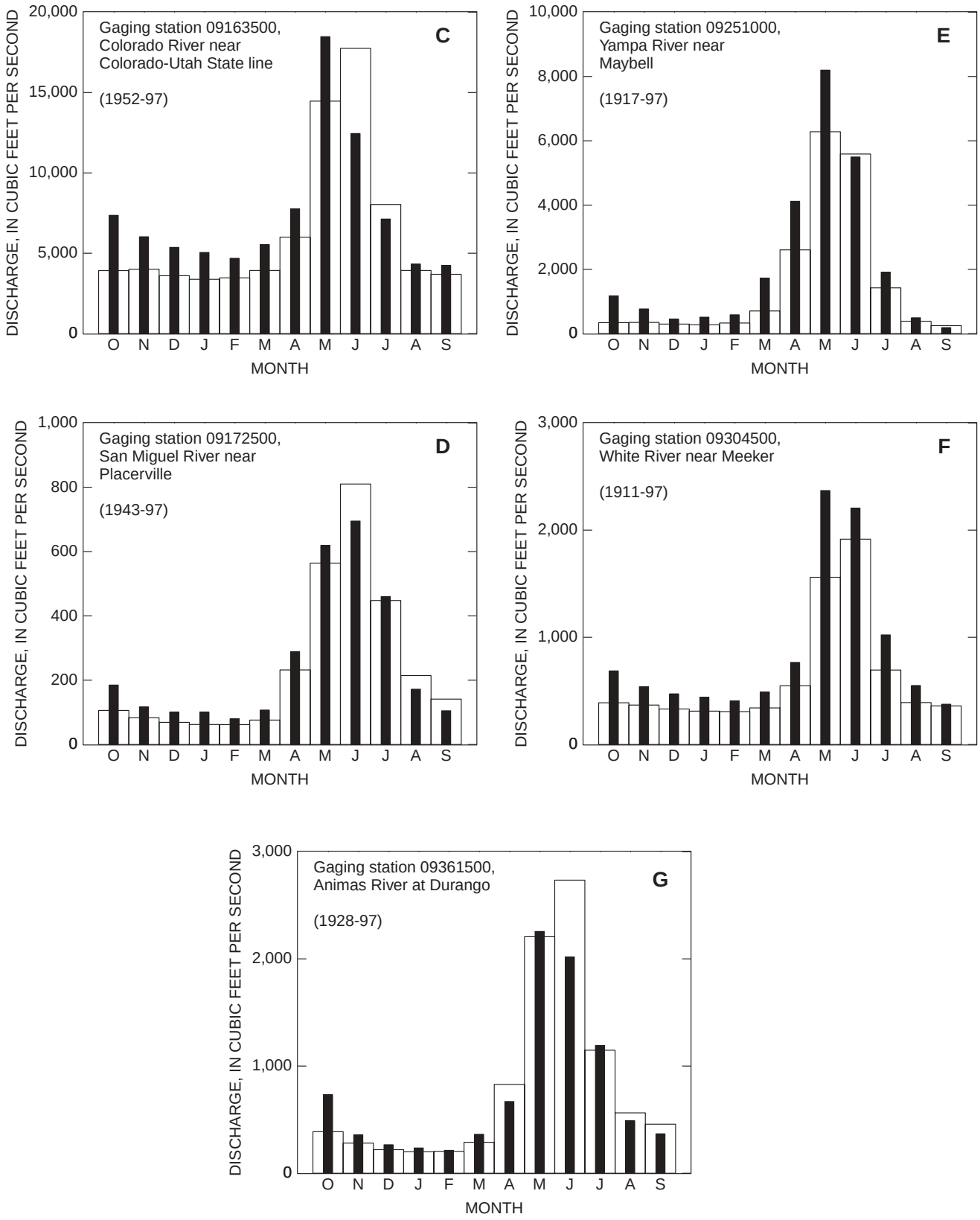


Figure 4.--Comparison of monthly mean discharges for water year 1998 to mean monthly discharges for the reference periods indicated on the individual graphs--Continued.

Chemical Quality of Streamflow

To determine if substantial changes occurred during water year 1998 in the chemical quality of streamflow, an analysis was made of specific conductance measured at gaging stations on four representative streams. Specific conductance can be used to estimate the dissolved-solids concentration in water because specific conductance is directly proportional to the concentrations of ions in water. Each selected gaging station either is the most downstream station on that stream or is representative of a substantial part of the drainage area of that stream. For each selected gaging station, the distribution of specific conductance during water year 1998 is compared to the distribution of specific conductance for the reference period in figure 5.

The Wilcoxon-Mann-Whitney rank sum test was used to determine if there were significant differences between values of specific conductance for water year 1998 and values for the reference period (Ott, 1993). This test is a nonparametric counterpart to the common t-test and does not require the data to have a normal distribution.

The Wilcoxon-Mann-Whitney rank sum test was applied to the hypothesis that the mean specific conductance for water year 1998 was equal to the mean for the reference period. The procedure for testing the hypothesis involves computing a test statistic from the ranks of the data by using a pooled standard deviation and comparing the test statistic to a value obtained from a table of "Student's" t values (Box and others, 1978). The table value is (1 - alpha/2), where alpha (the level of significance) equals 0.05, at the appropriate degrees of freedom for the number of samples. If the absolute value of the computed test statistic (t_R) is greater than the tabular t value (t_{tab}), the hypothesis is rejected. A rejection of the hypothesis is statistical evidence that the two means are different. The Wilcoxon-Mann-Whitney rank sum test results were evaluated at the 95-percent level.

Results of the Wilcoxon-Mann-Whitney rank sum tests for the four gaging stations are listed in table 3. At gaging station 09306290, White River below Boise Creek, near Rangely; and gaging station 09361500, Animas River at Durango; the mean specific conductance for water year 1998 and the mean specific conductance for the reference period are not statistically different at the specified level. However, mean specific conductance during water year 1998 was statistically different from mean specific conductance for water years 1988-97 for gaging station 09095500, Colorado River near Cameo; and gaging station 09152500, Gunnison River near Grand Junction. Specific conductance is inversely related to discharge at each of these sites. Annual mean discharge for water year 1998 at gaging station 09095500, Colorado River near Cameo, was 15 percent greater than the mean annual discharge for the reference period (1988-97). Similarly, annual mean discharge at gaging station 09152500, Gunnison River near Grand Junction, also was 15 percent greater than the mean annual discharge for the reference period. This increased flow decreased the mean specific conductance with respect to the reference period at these sites.

Table 3. Results of Wilcoxon-Mann-Whitney rank sum tests comparing mean specific conductance of discharge for water year 1998 with mean for the reference period at selected gaging stations

[Specific conductance, in microsiemens per centimeter at 25 degrees Celsius; t_R, calculated test statistic; t_{tab}, t-values from standard table; A, accepted, R, rejected]

Gaging-station identification		Specific conductance						Wilcoxon-Mann-Whitney rank sum test			
		Water year 1998			Reference period						
Station number	Station name	Number of values	Mean	Standard deviation	Number of values	Mean	Standard deviation	Period used (water years)	t_R	t_{tab}	Hypoth-esis
09095500	Colorado River near Cameo	30	749	229	378	875	297	1988-97	-2.93	1.96	R
09152500	Gunnison River near Grand Junction	29	598	180	219	868	315	1988-97	-4.39	1.97	R
09306290	White River below Boise Creek, near Rangely	13	688	170	131	642	180	1988-97	0.72	1.98	A
09361500	Animas River at Durango	11	403	151	93	438	204	1988-97	-0.47	1.99	A

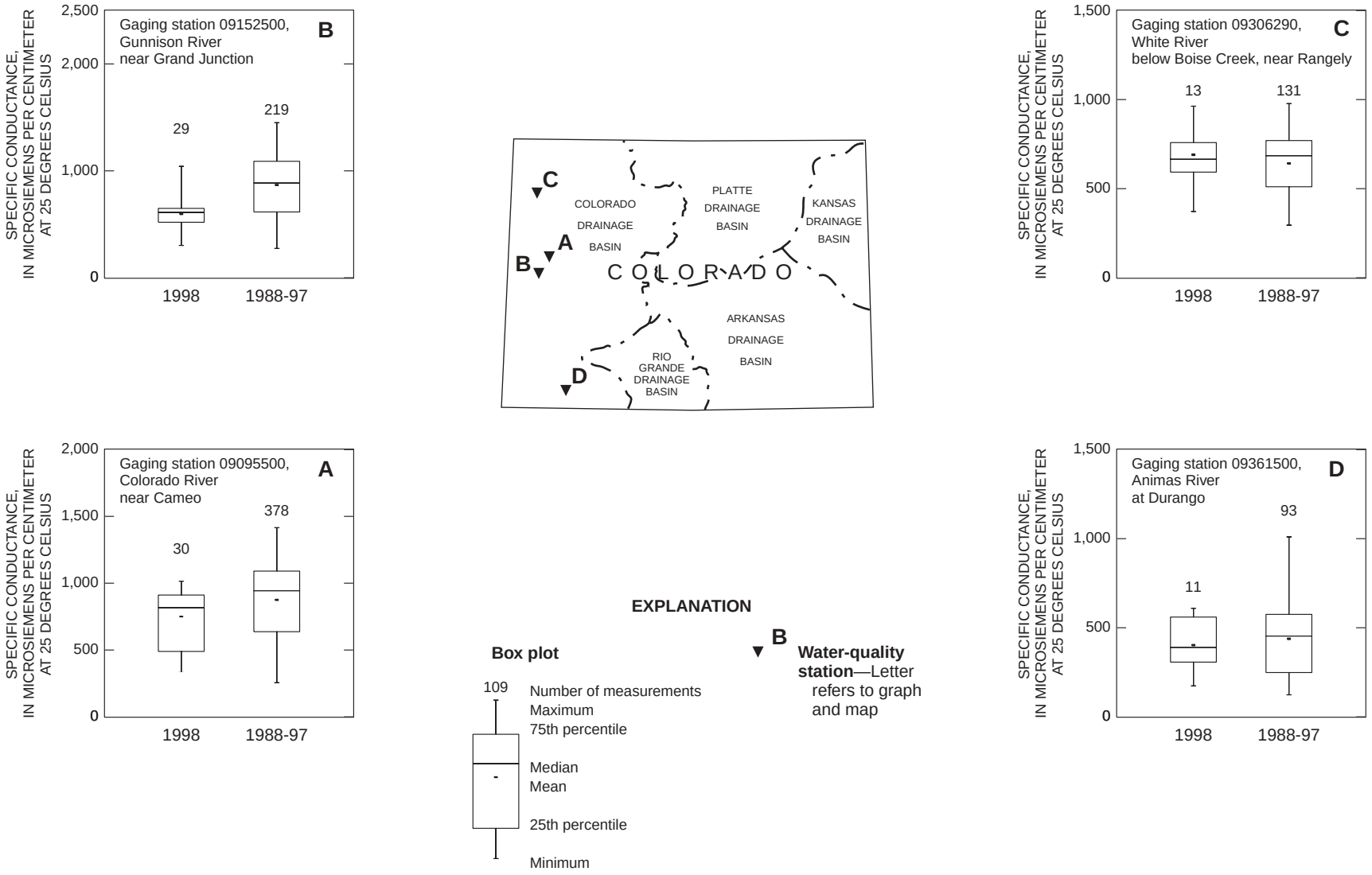


Figure 5.--Comparison of range and distribution of specific conductance measured during water year 1998 to long-term values.

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 hydrology, including water quality, and related factors in representative 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.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 39 stations. 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.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead Federal agency, the USGS works together with over 100 organizations to accomplish the following objectives: (1) Provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 191 precipitation chemistry monitoring sites. (2) Provide the mechanism to evaluate the effectiveness of the significant reduction in SO_2 emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred. (3) Provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO_2 and NO_x scheduled to begin in 2000.

Data from the network, as well as information about individual sites, are available through the World Wide Web at:

http://nadp.nrel.colostate.edu/NADP

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 53 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 is available through the World Wide Web at:

http://wwwrvares.er.usgs.gov/nawqa/nawqa_home.html

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 1998 water year that began on October 1, 1997, and ended September 30, 1998. 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, and water-quality data for surface and ground water. 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.

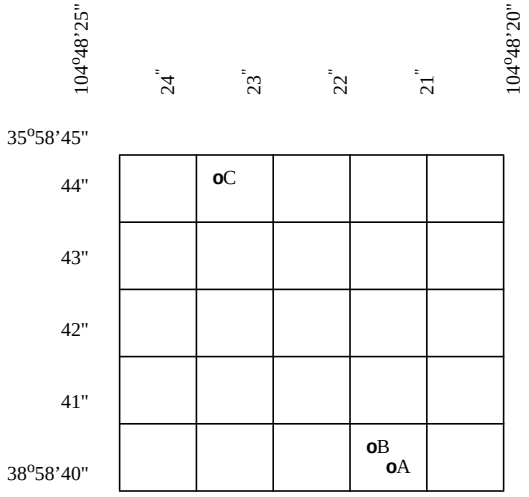
Downstream Order System

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 indention in the "List of Stations" in the front of this report. Each indention represents one rank. This downstream order and system of indention 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-mi^2 area described by the township and range designation is subdivided into 1-mi^2 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.)

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria. Those discharge values may be obtained by writing to the District Office. (See address on back of title page of this report.)

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ. 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 ft^3/s; to the nearest tenth between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures for more than 1,000 ft^3/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. Sulfate values in this report have not been corrected for this bias.

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 µS/cm or ± 5% whichever is greater
*	pH:	± 0.2 pH units
*	Dissolved Oxygen:	± 0.3 mg/L or ± 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 table of discharge measurements at miscellaneous sites.

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. 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.

Laboratory Measurements

Sediment samples, samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally, all other samples are analyzed in the Geological Survey laboratories in Arvada, 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.

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 to the Water-Quality File in the U.S. Geological Survey's computerized data system, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. 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 the appropriate computer file to insure the most recent updates.

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 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

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://water.usgs.gov	National home page
http://webserver.cr.usgs.gov	Colorado home page

Some 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

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System (SI) Units on the inside of the back cover.

Acre-foot (AC-FT, acre-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.

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

Algae are mostly aquatic single-celled, colonial, or multicelled plants, containing chlorophyll and lacking roots, stems, and leaves.

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.

Alkalinity represents the capacity of solutes in an aqueous sample to neutralize acid. Total alkalinity titrations are performed in the field (FIELD) environment on an aqueous sample, filtered through a 0.45 micrometer filter (DIS), to an inflection point near pH = 4.5, using the iterative-titration (IT) method. Alkalinity titrations in the laboratory (LAB) are performed on unfiltered samples using the fixed-endpoint (FEP) method to pH = 4.5. On occasion, for chemical or hydrologic considerations, alkalinity titrations are performed in the field environment on unfiltered, whole-water (WWR) samples and noted. Column headings in this publication containing total alkalinity results will display the location: FIELD or LAB; titration method: IT or FEP; and type of aqueous sample: DIS or WWR.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while 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.

Escherichia coli (E. coli) also are present in the digestive tract of warm-blooded animals. In the laboratory, E. coli is defined as all organisms that produce orange/yellow colonies when incubated for two hours at $35^{o}C \pm 0.2^{o}C$ and transferred to $44.5^{o}C \pm 0.2^{o}C$ for 22-24 hours on mTEC agar (nutrient medium for E. coli growth), and stained with phenol red solution. Their concentrations are expressed as number of colonies per 100 mL of sample.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at $35^{o}C$. 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 $35^{o}C \pm 1.0^{o}C$ on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warm-blooded animals. They are often 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 $44.5^{o}C \pm 0.2^{o}C$ on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as Gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organism which produce red or pink colonies with 48 hours at $35^{o}C \pm 1.0^{o}C$ on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

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 micro-organisms, such as bacteria.

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

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 $500^{o}C$ for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at $105^{o}C$ for zooplankton and periphyton, 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.

Organic mass or volatile mass of the living substance is the difference between the dry mass and the ash mass and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which 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, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters.

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 natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

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

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

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

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 salt water.

Cubic foot per second (ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Cubic feet per second per square mile $(ft^3/s)/mi^2$ is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific time.

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

Annual 7-day minimum is 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.)

Dissolved refers to that material in a representative water sample which passes through a 0.45 µm membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved-solids concentration of water 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 of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

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

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

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

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

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations and is expressed as the equivalent concentration of calcium carbonate ($CaCO_3$).

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 hydrology, including water quality, and related factors in representative 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.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an eight-digit number.

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

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

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.

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 (µg/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 liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

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

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 39 stations. 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

National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead Federal agency, the USGS works together with over 100 organizations to accomplish the following objectives: (1) Provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 191 precipitation chemistry monitoring sites. (2) Provide the mechanism to evaluate the effectiveness of the significant reduction in SO_2 emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred. (3) Provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO_2 and NO_x scheduled to begin in 2000.

Organism is any living entity.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per unit 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.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system to uniquely identify a specific constituent. The codes used are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

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

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

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

Classification	Size (mm)			Method of analysis
Clay.....	0.00024	-	0.004	Sedimentation
Silt.....	.004	-	.062	Sedimentation
Sand.....	.062	-	2.0	Sedimentation or sieve
Gravel.....	2.0	-	64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. 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.

Percent composition 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, mass, or volume.

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

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

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

Plankton is a community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

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 are commonly known as algae.

Blue-green algae 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.

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.

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.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and are often 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 is dominated by small crustaceans and rotifers.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic 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 by the plants (carbon method).

Milligrams of carbon per area or volume per unit time mg C/(m^2 x time) for periphyton and macrophytes and mg C/(m^3 x time) for phytoplankton are units for expressing primary productivity. They define 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 in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time mg O/(m^2 x time) for periphyton and macrophytes and mg O/(m^3 x time) for phytoplankton are the units for expressing primary productivity. They define 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.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Recoverable from 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.

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

.Runoff in inches (IN., in.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sea Level In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)--A geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it 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 influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and very close to it. In this report, bed load is considered to consist of particles in transit within 0.25 ft of the streambed.

Bed load discharge (tons per day) is the quantity of bed load measured by dry weight that moves past a section as bed load in a given time.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

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 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment discharge (tons/day) is the rate at which dry mass of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027.

Suspended-sediment load is a general term that refers to material in suspension. It is not synonymous with either discharge or concentration.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry mass or volume, that passes a section during a given time.

Total-sediment load or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total-sediment discharge.

7-day 10-year low flow (7 Q_{10}) is the discharge at the 10-year recurrence interval taken from a frequency curve of annual values of the lowest mean discharge for 7 consecutive days (the 7-day low flow).

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. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25^{o}C. Specific conductance is related to the type and concentration of ions in solution 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.

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

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.

Natural substrate refers to any naturally occurring emersed or submersed solid surface, such as a rock or tree, upon which an organism lives.

Artificial substrate is a device which 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 taken. 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 plexiglas strips for periphyton.

Surface area of a lake is that area outlined on the latest USGS topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is the part (0.1 to 0.2 ft) 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 associated with 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 water-suspended sediment sample that is retained on a 0.45 µm 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 analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituents.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 µm membrane filter. 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 determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchial 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.....	Hexagenia
Species.....	Hexagenia limbata

Thermograph is an instrument that continuously records variation of temperature on a chart. The more general term "temperature recorder" is used in the table headings 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 that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 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) is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

Total is the total amount of a given constituent in a representative water-suspended sediment 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 all of the constituent in the sample.)

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross-section per unit of time. This term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment 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, equivalent digestion procedures are required of all laboratories performing such analyses, because different digestion procedures are likely to produce different analytical results.

Tritium Network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

Water year in Geological Survey 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, 1980, is called the "1980 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.

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

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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
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 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
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
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
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

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)
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
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
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 near Minturn, CO	09066500	101	1911-14, 1944-56
Beaver Creek at Avon, CO	09067000	14.8	1911, 1912-14, 1974-87, 1988
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
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

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)
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	26.8	1963-79
Thompson Creek near Carbondale, CO	09083000	75.7	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
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

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 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 DeBeque, 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 at Upper Station near DeBeque, CO	09095300	97.4	1996-98
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
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

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)
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
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

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)
East Fork Dallas Creek near Ridgway, CO	09146500	16.8	1955-70, 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 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
Dolores River below Rico, CO	09165000	105	1952-96
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
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	23.0	1952-65, 1966-86

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)
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
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	1,430	1965-72
Gibralter Canal near Hayden, CO	09244405	--	1965-72
Yampa River below Diversion near Hayden, CO	09244410	1,430	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 near Fortification, CO	09246920	40.0	1984-90
Fortification Creek at Craig, CO	09247000	258	1903-06, 1909-18, 1943-47
Yampa River at Craig, CO	09247500	1,730	1909-16 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
Morapos Creek near Hamilton, CO	09249700	13.7	1965-67
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

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)
North Fork White River near Buford, CO	09302800	220	1903-06, 1956-72
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
Piceance Creek below Ryan Gulch near Rio Blanco, CO	09306200	506	1965-98
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 above Sand Creek, near Pagosa Springs, CO	09339900	64.1	1957-96
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
Wolf Creek near Pagosa Springs, CO	09341200	14.0	1968-75
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
Rito Blanco near Pagosa Springs, CO	09343500	23.3	1935-52
Navajo River above Chromo, CO	09344300	96.4	1956-70
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

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)
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
Rainbow Springs Trout Ranch near Bordad, CO	09362600	--	1995-97
Florida River near Hermosa, CO	09362900	68.8	1955-63
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.	1986
			S.C.	1986-87
Rock Creek at Crater, CO	09060550	72.6	Temp., S.C.	1986-87
Black Gore Creek near Vail, CO	09066050	19.6	Sed.	1973-79
Gore Creek at Vail, CO	09066250	57.3	Sed.	1973-79
Gore Creek at mouth near Minturn, CO	09066510	102	Temp.	1997-98
			S.C.	1997
Colorado River near Dotsero, CO	09070500	4,394	Temp., S.C.	1980-84
			Temp.	1997-98
			Sed.	1959-61
Colorado River near Glenwood Springs, CO	09071100	4,560	Temp.	1969-70, 1980-85
			S.C.	1980-85
Colorado River at Glenwood Springs, CO	09072500	4,558	Temp.	1954-58
			Sed.	1959-61
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.	1980-84
			Sed.	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.	1976-82
			Sed.	1977-82
East Fork Parachute Creek near Rulison, CO	09092970	20.4	Temp.	1977-78, 1980-83
			S.C.	1977-83
			Sed.	1978, 1980-83
Parachute Creek near Parachute, CO	09093000	141	Temp., S.C.	1975-80
			Sed.	1974-75
Parachute Creek at Parachute, CO	09093500	198	Temp., S.C.	1975-80
			Sed.	1974-82
Colorado River near De Beque, CO	09093700	7,370	Temp., S.C.	1973-82
			Sed.	1974-76
Roan Creek near De Beque, CO	09095000	321	Temp., S.C.	1975-80
			Sed.	1975-81
Dry Fork at Upper Station near DeBeque, CO	09095300	97.4	Temp.	1997-98
Government Highline Canal near Mack, CO	09095530	--	Temp.	1973-80
			S.C.	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.,	1995-97
			Temp.	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.	1997-98
			S.C.	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
Big Salt Wash at Fruita, CO	09153270	142	Temp., S.C.	1973-77
Reed Wash near Mack, CO	09153290	15.7	Temp.	1997-98
			S.C.	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

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)
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.	1973-82
			S.C.	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.	1976-81
			Sed.	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	09244464	13.6	Temp., S.C., Sed.	1978-81
Good Spring Creek at Axial, CO	09250400	40.0	Temp.	1975-78
			S.C.	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.	1975-80
			S.C.	1974-80
			Sed.	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.	1950-69
			Sed.	1958-64
Little Snake River near Lily, CO	09260000	3,730	Temp., S.C.	1975-85
			Sed.	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
			Sed.	1976
Stewart Gulch above West Fork near Rio Blanco, CO	09306022	44.0	Temp., S.C., Sed.	1974-82
West Fork Stewart Gulch near Rio Blanco, CO	09306025	14.2	Temp.	1974-76, 1980-81
			S.C.	1975-76, 1980-81
			Sed.	1974-76
West Fork Stewart Gulch at Mouth near Rio Blanco, CO	09306028	15.7	Temp.	1980-81
			S.C.	1977, 1980-81
			Sed.	1975-76, 1980-81
Sorghum Gulch near Rio Blanco, CO	09306033	1.22	Temp., S.C.	1975-76, 1980
			Sed.	1975-76
Sorghum Gulch at Mouth near Rio Blanco, CO	09306036	3.62	Temp., S.C.	1976, 1978, 1980
			Sed.	1975-77, 1982
Cottonwood Gulch near Rio Blanco, CO	09306039	1.20	Temp., S.C.	1976-78, 1980
			Sed.	1974-77, 1980
Piceance Creek Tributary near Rio Blanco, CO	09306042	1.06	Temp., S.C.	1974-86
			Sed.	1974-82
Piceance Creek below Gardenhire Gulch near Rio Blanco, CO	09306045	255	Temp., S.C.	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)
Scandard Gulch near Rio Blanco, CO	09306050	6.61	Temp., S.C.	1980
			Sed.	1975-76
Scandard Gulch at Mouth near Rio Blanco, CO	09306052	7.97	Temp., S.C.	1976, 1978, 1980
			Sed.	1974-76, 1980
Willow Creek near Rio Blanco, CO	09306058	48.4	Temp., S.C.	1974-82
			pH, D.O.	1976-82
			Sed.	1974-82
Piceance Creek above Hunter Creek near Rio Blanco, CO	09306061	309	Temp., S.C., Sed.	1974-85
			pH, D.O.	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.	1972-83
			Temp., S.C.	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.	1980
			Sed.	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.	1975-85
			Sed.	1974-82
Dry Fork near Rangely, CO	09306237	2.74	Temp., S.C.	1977, 1979, 1982
			Sed.	1975, 1977, 1979, 1981-82
Box Elder Gulch near Rangely, CO	09306240	9.21	Temp., S.C.	1975-85
			Sed.	1975-82
Box Elder Gulch Tributary near Rangely, CO	09306241	2.39	Temp.	1976, 1980-81
			S.C.	1976-77, 1981
			Sed.	1975, 1980, 1982
Corral Gulch near Rangely, CO	09306242	31.6	Temp., S.C.	1975-87
			Sed.	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
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).

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material 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. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Branch of Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

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, Chapter D1. 1975. 65 pages.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W.W. Wood: USGS–TWRI Book 1, Chapter D2. 1976. 24 pages.

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, Chapter D1. 1974. 116 pages.

2-D2. *Application of seismic-refraction techniques to hydrologic studies,* by F.P. Haeni: USGS–TWRI Book 2, Chapter D2. 1988. 86 pages.

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, Chapter E1. 1971. 126 pages.

2-E2. *Borehole geophysics applied to ground-water investigations,* by W.S. Keys: USGS–TWRI Book 2, Chapter E2. 1990. 150 pages.

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, Chapter F1. 1989. 97 pages.

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, Chapter A1. 1967. 30 pages.

3-A2. *Measurement of peak discharge by the slope-area method,* by Tate Dalrymple and M.A. Benson: USGS–TWRI Book 3, Chapter A2. 1967. 12 pages.

3-A3. *Measurement of peak discharge at culverts by indirect methods,* by G.L. Bodhaine: USGS–TWRI Book 3, Chapter A3. 1968. 60 pages.

3-A4. *Measurement of peak discharge at width contractions by indirect methods,* by H.F. Matthai: USGS-TWRI Book 3, Chapter A4. 1967. 44 pages.

3-A5. *Measurement of peak discharge at dams by indirect methods,* by Harry Hulsing: USGS–TWRI Book 3. Chapter A5. 1967. 29 pages.

3-A6. *General procedure for gaging streams,* by R.W. Carter and Jacob Davidian: USGS–TWRI Book 3, Chapter A6. 1968. 13 pages.

3-A7. *Stage measurement at gaging stations,* by T.J. Buchanan and W.P. Somers: USGS–TWRI Book 3, Chapter A7. 1968. 28 pages.

3-A8. *Discharge measurements at gaging stations,* by T.J. Buchanan and W.P. Somers: USGS–TWRI Book 3, Chapter A8. 1969. 65 pages.

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, Chapter A9. 1989. 27 pages.

3-Al0. *Discharge ratings at gaging stations,* by E.J. Kennedy: USGS–TWRI Book 3, Chapter A10. 1984. 59 pages.

3-A11. *Measurement of discharge by the moving-boat method,* by G.F. Smoot and C.E. Novak: USGS–TWRI Book 3, Chapter A11. 1969. 22 pages.

3-A12. *Fluorometric procedures for dye tracing*, Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS–TWRI Book 3, Chapter A12. 1986. 34 pages.

3-A13. *Computation of continuous records of streamflow*, by E.J. Kennedy: USGS–TWRI Book 3, Chapter A13. 1983. 53 pages.

3-A14. *Use of flumes in measuring discharge,* by F.A. Kilpatrick and V.R. Schneider: USGS–TWRI Book 3, Chapter A14. 1983. 46 pages.

3-A15. *Computation of water-surface profiles in open channels,* by Jacob Davidian: USGS–TWRI Book 3, Chapter A15. 1984. 48 pages.

3-A16. *Measurement of discharge using tracers*, by F.A. Kilpatrick and E.D. Cobb: USGS–TWRI Book 3, Chapter A16. 1985. 52 pages.

3-A17. *Acoustic velocity meter systems,* by Antonius Laenen: USGS–TWRI Book 3, Chapter A17. 1985. 38 pages.

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, Chapter A18. 1989. 52 pages.

3-A19. *Levels at streamflow gaging stations*, by E.J. Kennedy: USGS–TWRI Book 3, Chapter A19. 1990. 31 pages.

3-A20. *Simulation of soluable waste transport and buildup in surface waters using tracers*, by F.A. Kilpatrick: USGS–TWRI Book 3, Chapter A20. 1993. 38 pages.

3-A21 *Stream-gaging cableways,* by C. Russell Wagner: USGS–TWRI Book 3, Chapter A21. 1995. 56 pages.

Section B. Ground-Water Techniques

3-B1. *Aquifer-test design, observation, and data analysis,* by R.W. Stallman: USGS–TWRI Book 3, Chapter B1. 1971. 26 pages.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G.D. Bennett: USGS–TWRI Book 3, Chapter B2. 1976. 172 pages.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J.E. Reed: USGS–TWRI Book 3, Chapter B3. 1980. 106 pages.

3-B4. *Regression modeling of ground-water flow,* by R.L. Cooley and R.L. Naff: USGS–TWRI Book 3, Chapter B4. 1990. 232 pages.

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, Chapter B4. 1993. 8 pages.

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, Chapter B5. 1987. 15 pages.

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, Chapter B6. 1987. 28 pages.

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, Chapter B7. 1992. 190 pages.

Section C. Sedimentation and Erosion Techniques

3-C1. *Fluvial sediment concepts,* by H.P. Guy: USGS–TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. *Field methods for measurement of fluvial sediment*, by H.P. Guy and V.W. Norman: USGS–TWRI Book 3, Chapter C2. 1970. 59 pages.

3-C3. *Computation of fluvial-sediment discharge,* by George Porterfield: USGS–TWRI Book 3, Chapter C3. 1972. 66 pages.

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, Chapter A1. 1968. 39 pages.

4-A2. *Frequency curves,* by H.C. Riggs: USGS–TWRI Book 4, Chapter A2. 1968. 15 pages.

Section B. Surface Water

4-B1. *Low-flow investigations,* by H.C. Riggs: USGS–TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. *Storage analyses for water supply*, by H.C. Riggs and C.H. Hardison: USGS–TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. *Regional analyses of streamflow characteristics,* by H.C. Riggs: USGS–TWRI Book 4, Chapter B3. 1973. 15 pages.

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, Chapter D1. 1970. 17 pages.

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, Chapter A1. 1989. 545 pages.

5-A2. *Determination of minor elements in water by emission spectroscopy,* by P.R. Barnett and E.C. Mallory, Jr.: USGS–TWRI Book 5, Chapter A2. 1971. 31 pages.

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, Chapter A3. 1987. 80 pages.

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, Chapter A4. 1989. 363 pages.

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, Chapter A5. 1977. 95 pages.

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, Chapter A6. 1982. 181 pages.

Section C. Sediment Analysis

5-C1. *Laboratory theory and methods for sediment analysis*, by H.P. Guy: USGS–TWRI Book 5, Chapter C1. 1969. 58 pages.

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, Chapter A1. 1988. 586 pages.

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, Chapter A2. 1991. 68 pages.

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, Chapter A3. 1993. 136 pages.

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, Chapter A4. 1992. 108 pages.

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, Chapter A5, 1993. 243 pages.

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. 1996. 125 pages.

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, Chapter C1. 1976. 116 pages.

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, Chapter C2. 1978. 90 pages.

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, Chapter C3. 1981. 110 pages.

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, Chapter A1. 1968. 23 pages.

8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J.D. Craig: USGS–TWRI Book 8, Chapter A2. 1983. 57 pages.

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, Chapter B2. 1968. 15 pages.

Book 9. Handbooks for Water-Resources Investigations

Section A. National Field Manual for the Collection of Water-Quality Data

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, Chapter A6. 1998. Variously paginated.

9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators*, by D.N. Myers and F.D. Wilde: USGS–TWRI Book 9, Chapter A7. 1997. 49 pages.

9-A8. *National Field Manual for the Collection of Water-Quality Data: Bottom-material samples*, by D.B. Radtke: USGS–TWRI Book 9, Chapter A8. 1998. 48 pages.

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, Chapter A9. 1998. 60 pages.

09010500 COLORADO RIVER BELOW BAKER GULCH, NEAR GRAND LAKE, CO

LOCATION.--Lat 40°19'33", long 105°51'22", in NE¼NW¼ sec.12, T.4 N., R.76 W., Grand County, Hydrologic Unit 14010001, on left bank 500 ft downstream from Baker Gulch, 1.0 mi upstream from Bowen Gulch, and 5.5 mi northwest of town of Grand Lake.

DRAINAGE AREA.--53.4 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1953 to current year.

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 8,750 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversion upstream from station by Grand River ditch (see elsewhere in this report).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	e32	e29	e13	e8.0	e8.6	e17	65	318	259	75	53
2	57	e33	e29	e13	e8.0	e8.6	e17	72	359	221	64	35
3	64	e31	e29	e13	e8.0	e8.6	e17	87	370	189	56	30
4	55	e29	e29	e13	e8.0	e8.6	e15	103	323	173	60	27
5	51	e28	e29	e13	e8.0	e8.6	e15	103	246	157	57	26
6	47	e30	e29	e13	e8.0	e8.6	e15	94	196	154	48	24
7	45	e32	e26	e13	e8.0	e8.6	e15	86	173	138	43	23
8	47	e32	e24	e12	e8.0	e8.6	e15	85	168	123	40	23
9	44	e32	e23	e11	e8.0	e8.6	e15	74	152	126	40	24
10	43	e32	e23	e11	e8.0	e8.6	e15	80	148	137	64	22
11	41	e32	e23	e11	e8.0	e9.0	e15	88	144	134	69	22
12	41	e32	e23	e11	e8.0	e9.3	e15	82	141	110	47	26
13	39	e32	e23	e11	e8.0	e9.3	e15	97	147	97	42	30
14	46	e32	e23	e11	e8.0	e9.3	e15	134	199	89	38	28
15	43	e32	e20	e11	e8.0	e9.3	e15	111	188	82	38	26
16	42	e32	e20	e11	e8.0	e9.3	e15	99	155	74	35	24
17	41	e32	e20	e11	e8.0	e9.3	16	118	153	70	35	32
18	41	e32	e20	e11	e8.0	e10	e14	158	147	65	37	29
19	39	e32	e19	e11	e8.0	e11	e14	188	144	61	37	27
20	38	e32	e18	e11	e8.0	e12	e14	225	155	58	32	26
21	38	e32	e16	e11	e8.6	e13	15	272	169	58	32	26
22	36	e32	e14	e11	e8.6	e13	19	252	194	67	32	25
23	34	e32	e13	e11	e8.6	e14	31	199	213	61	29	32
24	34	e32	e13	e11	e8.6	e15	49	171	217	79	27	32
25	31	e32	e13	e11	e8.6	e16	49	168	214	99	25	30
26	e31	e30	e13	e11	e8.6	e17	42	198	245	75	25	28
27	e31	e29	e13	e11	e8.6	e17	39	231	258	62	28	26
28	e33	e29	e13	e11	e8.6	e17	49	285	263	58	24	25
29	e33	e29	e13	e11	---	e17	58	315	270	71	22	24
30	e34	e29	e13	e10	---	e17	66	316	274	74	24	24
31	e33	---	e13	e9.0	---	e17	---	319	---	70	39	---
TOTAL	1293	937	626	353.0	228.8	356.8	721	4875	6343	3291	1264	829
MEAN	41.7	31.2	20.2	11.4	8.17	11.5	24.0	157	211	106	40.8	27.6
MAX	64	33	29	13	8.6	17	66	319	370	259	75	53
MIN	31	28	13	9.0	8.0	8.6	14	65	141	58	22	22
AC-FT	2560	1860	1240	700	454	708	1430	9670	12580	6530	2510	1640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1998, BY WATER YEAR (WY)

MEAN	24.2	15.5	10.0	7.93	7.09	7.60	27.3	169	321	115	34.5	27.2
MAX	83.7	37.2	20.2	12.8	10.6	11.9	74.5	329	596	425	104	78.1
(WY)	1962	1962	1998	1985	1984	1972	1962	1996	1997	1983	1983	1997
MIN	9.25	7.43	4.56	3.91	3.90	4.57	9.11	65.7	69.8	27.3	11.1	11.8
(WY)	1957	1957	1957	1957	1977	1977	1991	1995	1954	1954	1954	1956

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1953 - 1998	
ANNUAL TOTAL	38847.5		21117.6			
ANNUAL MEAN	106		57.9		64.1	
HIGHEST ANNUAL MEAN					109	1983
LOWEST ANNUAL MEAN					26.3	1954
HIGHEST DAILY MEAN	725	Jun 21	370	Jun 3	916	Jun 30 1957
LOWEST DAILY MEAN	a,e7.4	Feb 22	b,e8.0	Feb 1	3.0	Jan 13 1963
ANNUAL SEVEN-DAY MINIMUM	7.4	Feb 21	8.0	Feb 1	3.5	Feb 4 1977
INSTANTANEOUS PEAK FLOW			428	Jun 2	976	Jun 30 1957
INSTANTANEOUS PEAK STAGE			6.11	Jun 2	c7.19	Jun 30 1957
ANNUAL RUNOFF (AC-FT)	77050		41890		46470	
10 PERCENT EXCEEDS	358		168		192	
50 PERCENT EXCEEDS	33		30		18	
90 PERCENT EXCEEDS	8.6		8.6		6.4	

e-Estimated.
a-Also occurred Feb 23-27.
b-Also occurred Feb 2-20.
c-Maximum gage height, 7.32 ft, Jun 10, 1995, but may have been higher during period of estimated record, Jun 13-20, 1995.

09010500 COLORADO RIVER BELOW BAKER GULCH NEAR GRAND LAKE, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1994 to September 1998 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1996 to September 1998 (discontinued).

INSTRUMENTATION.--Water temperature sensor and logger October 1996 to September 1998 (discontinued).

REMARKS.--Upper Colorado River Basin National Water Quality Assessment Program station (NAWQA). Daily water temperature data are good.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 18.6°C, July 20, 1998; minimum, 0.0°C on many days during winter.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 18.6°C, July 20; minimum, 0.0°C on many days October to April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT												
30...	1220	29	70	7.5	1.5	10	29	8.2	2.0	1.5	0.1	0.6
NOV												
17...	1345	32	78	7.4	0.5	10	32	9.1	2.1	1.7	0.1	0.7
DEC												
18...	1030	e15	77	7.2	0.0	8.4	31	8.7	2.2	1.8	0.1	0.8
JAN												
21...	1315	11	76	7.0	0.0	9.6	32	8.9	2.2	1.8	0.1	0.8
FEB												
20...	1225	8.0	77	7.4	0.0	10.0	33	9.2	2.4	1.9	0.1	0.8
MAR												
17...	1455	9.3	78	7.2	0.0	9.4	32	8.9	2.3	1.9	0.1	0.9
27...	0715	17	72	7.3	0.0	9.5	31	8.7	2.3	2.0	0.2	1.5
APR												
23...	1340	38	71	7.6	2.5	9.4	29	8.2	2.1	1.8	0.1	1.0
MAY												
21...	0955	250	47	7.5	3.0	9.6	19	5.6	1.3	1.3	0.1	0.7
28...	1045	253	46	7.5	4.5	9.3	19	5.3	1.3	1.3	0.1	0.6
JUN												
02...	0700	340	42	7.2	2.5	9.6	17	4.9	1.1	1.1	0.1	0.6
12...	0950	140	52	7.5	5.0	9.2	20	5.7	1.4	1.4	0.1	0.6
18...	1000	140	50	7.6	2.0	9.8	20	5.8	1.4	1.5	0.1	0.6
JUL												
07...	1520	134	50	7.7	12.0	8.0	20	5.9	1.4	1.3	0.1	0.6
23...	1235	60	--	7.7	12.5	7.8	25	7.3	1.8	1.6	0.1	0.8
AUG												
10...	1250	43	62	7.8	14.0	8.0	27	7.7	1.8	1.9	0.2	0.8
SEP												
22...	0945	26	68	7.8	8.5	8.8	30	8.7	2.1	1.8	0.1	0.8

e-Estimated

09010500 COLORADO RIVER BELOW BAKER GULCH NEAR GRAND LAKE, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	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)
OCT											
30...	26	21	7.3	0.2	0.3	7.0	45	44	0.06	3.52	<0.01
NOV											
17...	38	31	6.4	0.2	0.2	7.8	44	48	0.06	3.84	<0.01
DEC											
18...	33	27	7.3	0.2	0.3	8.0	49	46	0.07	--	<0.01
JAN											
21...	34	28	6.6	0.1	0.3	8.5	55	47	0.07	1.59	0.01
FEB											
20...	37	30	6.5	0.1	0.3	8.9	48	49	0.07	1.04	<0.01
MAR											
17...	34	28	6.9	0.1	0.3	8.6	51	47	0.07	1.28	<0.01
27...	33	27	6.1	0.4	0.3	8.8	53	47	0.07	2.39	0.01
APR											
23...	32	26	5.5	0.3	0.3	8.0	51	44	0.07	5.23	<0.01
MAY											
21...	21	17	3.4	0.1	0.3	6.2	40	30	0.05	27.0	<0.01
28...	20	17	3.2	0.1	0.2	6.1	37	28	0.05	25.3	0.01
JUN											
02...	18	15	3.0	<0.1	0.2	5.6	36	--	--	--	0.02
12...	23	19	3.8	0.1	0.2	6.4	42	31	0.06	15.5	<0.01
18...	23	19	3.6	0.1	0.2	6.7	41	31	0.06	15.9	<0.01
JUL											
07...	21	18	3.7	<0.1	0.2	5.7	39	--	--	--	<0.01
23...	25	21	3.9	0.2	0.2	6.8	44	35	0.06	7.10	<0.01
AUG											
10...	31	25	4.2	0.1	0.3	7.3	48	39	0.07	5.57	<0.01
SEP											
22...	29	24	6.2	0.2	0.4	6.9	49	42	0.07	3.44	<0.01

DATE	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)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)
OCT											
30...	0.09	<0.02	<0.1	<0.1	<0.01	<0.01	0.01	1.5	<0.2	110	18
NOV											
17...	0.13	0.02	<0.1	<0.1	0.01	<0.01	<0.01	1.5	<0.2	100	22
DEC											
18...	0.08	<0.02	<0.1	<0.1	<0.01	<0.01	<0.01	1.1	<0.2	100	24
JAN											
21...	0.13	<0.02	<0.1	<0.1	<0.01	<0.01	<0.01	1.1	<0.2	82	24
FEB											
20...	0.14	<0.02	<0.1	<0.1	<0.01	<0.01	0.02	1.2	<0.2	170	31
MAR											
17...	0.11	0.04	<0.1	<0.1	<0.01	<0.01	<0.01	1.1	0.2	140	30
27...	0.11	0.03	0.1	<0.1	0.02	<0.01	<0.01	2.5	0.6	170	36
APR											
23...	0.09	0.03	0.1	<0.1	0.03	0.03	0.01	2.7	0.6	300	43
MAY											
21...	0.05	0.03	0.2	0.2	0.03	<0.01	<0.01	4.7	0.5	110	<4
28...	0.08	0.05	<0.1	<0.1	0.01	<0.01	0.01	4.6	0.2	82	6
JUN											
02...	0.10	0.06	<0.1	0.1	<0.01	<0.01	0.01	4.1	0.2	76	5
12...	<0.05	0.03	<0.1	0.1	<0.01	<0.01	<0.01	3.6	0.2	67	6
18...	<0.05	0.04	0.1	<0.1	<0.01	<0.01	0.01	3.8	0.3	74	8
JUL											
07...	<0.05	0.03	<0.1	0.2	<0.01	<0.01	0.01	2.6	0.3	120	7
23...	0.05	0.03	0.1	<0.1	0.01	<0.01	<0.01	2.1	0.2	150	10
AUG											
10...	<0.05	0.05	0.1	<0.1	<0.01	<0.01	<0.01	1.9	<0.2	110	12
SEP											
22...	0.09	<0.002	<0.1	<0.1	0.004	0.015	0.001	1.3	--	73	14

09010500 COLORADO RIVER BELOW BAKER GULCH NEAR GRAND LAKE, CO--Continued

(National Water-Quality Assessment Program station)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
MAR				
27...	0720	17	72	0.0
APR				
16...	1430	15	78	1.0
JUN				
11...	1431	141	50	6.5
AUG				
06...	1033	52	64	12.0
SEP				
02...	1044	38	71	9.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT,[a] SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT				
30...	1220	29	1	0.08
NOV				
17...	1345	32	1	0.09
DEC				
18...	1030	e15	3	e0.12
JAN				
21...	1315	11	1	0.03
FEB				
20...	1225	8.0	1	0.02
MAR				
17...	1455	9.3	5	0.11
27...	0715	17	3	0.13
APR				
23...	1340	38	18	1.8
MAY				
21...	0955	250	82	55
28...	1045	253	13	8.9
JUN				
02...	0700	337	15	14
12...	0950	137	3	1.1
18...	1000	144	4	1.6
JUL				
07...	1520	134	4	1.4
23...	1235	60	2	0.32
AUG				
10...	1250	43	2	0.23
SEP				
22...	0945	26	1	0.07

a-Suspended-sediment concentration determined from a subsample split of a composite sample.
e-Estimated.

09010500 COLORADO RIVER BELOW BAKER GULCH NEAR GRAND LAKE, CO--Continued
(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.3	4.7	7.6	.4	.0	.0	.1	.0	.0	.0	.0	.0
2	9.4	5.3	7.5	.6	.0	.1	.1	.0	.0	.0	.0	.0
3	9.7	6.6	7.8	.4	.0	.1	.1	.0	.0	.0	.0	.0
4	9.7	3.9	6.7	.6	.0	.1	.1	.0	.0	.0	.0	.0
5	9.7	4.1	6.8	.8	.0	.2	.1	.0	.0	.0	.0	.0
6	9.7	3.9	6.9	1.1	.0	.2	.0	.0	.0	.0	.0	.0
7	9.1	4.6	7.0	1.4	.0	.3	.0	.0	.0	.0	.0	.0
8	7.6	4.1	6.0	1.2	.0	.4	.0	.0	.0	.0	.0	.0
9	6.9	1.9	4.4	1.6	.0	.5	.0	.0	.0	.0	.0	.0
10	7.0	1.9	4.7	.3	.0	.0	.0	.0	.0	.0	.0	.0
11	7.8	3.5	5.7	.3	.0	.0	.0	.0	.0	.0	.0	.0
12	5.2	.3	2.6	.8	.0	.1	.0	.0	.0	.0	.0	.0
13	.8	.0	.3	.6	.0	.1	.0	.0	.0	.0	.0	.0
14	3.5	.0	1.4	.1	.0	.0	.0	.0	.0	.1	.0	.0
15	4.9	.1	2.4	.1	.0	.0	.0	.0	.0	.1	.0	.0
16	5.5	.4	3.0	.1	.0	.0	.0	.0	.0	.1	.0	.0
17	5.8	.9	3.4	.1	.0	.0	.0	.0	.0	.1	.0	.0
18	5.8	.9	3.4	.1	.0	.0	.0	.0	.0	.0	.0	.0
19	5.6	.9	3.4	.1	.0	.0	.0	.0	.0	.0	.0	.0
20	3.7	1.2	2.7	.1	.0	.0	.0	.0	.0	.0	.0	.0
21	5.3	2.2	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
22	5.2	.8	3.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
23	3.1	.4	1.7	.0	.0	.0	.0	.0	.0	.1	.0	.0
24	1.2	.0	.5	.1	.0	.0	.1	.0	.0	.1	.0	.0
25	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
26	.6	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0
27	.8	.0	.2	.1	.0	.0	.0	.0	.0	.1	.0	.0
28	.9	.0	.2	.1	.0	.0	.0	.0	.0	.1	.0	.0
29	1.2	.0	.3	.1	.0	.0	.0	.0	.0	.1	.0	.0
30	1.2	.1	.5	.1	.0	.0	.0	.0	.0	.1	.0	.0
31	.6	.0	.2	---	---	---	.0	.0	.0	.1	.0	.0
MONTH	10.3	.0	3.4	1.6	.0	.1	.1	.0	.0	.1	.0	.0

		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	.0	.0	.0	.9	.0	.2	5.5	.6	3.0
2	.0	.0	.0	.0	.0	.0	.1	.0	.0	7.5	1.7	4.3
3	.0	.0	.0	.0	.0	.0	1.2	.0	.3	7.2	1.1	4.1
4	.0	.0	.0	.0	.0	.0	1.6	.0	.5	8.6	.3	4.1
5	.0	.0	.0	.0	.0	.0	2.0	.0	.6	7.7	1.1	4.2
6	.0	.0	.0	.0	.0	.0	.8	.0	.2	5.1	1.7	3.2
7	.0	.0	.0	.0	.0	.0	1.9	.0	.4	5.5	.9	3.0
8	.0	.0	.0	.0	.0	.0	1.2	.0	.3	5.8	1.9	3.8
9	.0	.0	.0	.0	.0	.0	1.2	.0	.3	8.0	1.6	4.7
10	.0	.0	.0	.0	.0	.0	2.7	.0	.8	9.2	2.5	5.9
11	.0	.0	.0	.0	.0	.0	3.3	.0	.8	8.1	2.2	5.3
12	.0	.0	.0	.0	.0	.0	1.9	.0	.6	8.3	1.9	5.4
13	.0	.0	.0	.0	.0	.0	1.7	.0	.4	11.4	2.2	6.7
14	.0	.0	.0	.0	.0	.0	1.9	.0	.5	7.2	2.2	4.6
15	.0	.0	.0	.0	.0	.0	1.7	.0	.4	5.5	1.2	3.3
16	.0	.0	.0	.0	.0	.0	1.7	.0	.3	9.8	.6	5.1
17	.0	.0	.0	.0	.0	.0	1.6	.0	.4	10.6	1.6	6.1
18	.0	.0	.0	.0	.0	.0	3.1	.0	.8	9.4	1.9	5.7
19	.0	.0	.0	.0	.0	.0	2.3	.0	.7	8.3	1.2	4.7
20	.0	.0	.0	.0	.0	.0	3.1	.0	.9	8.4	1.6	5.0
21	.0	.0	.0	.0	.0	.0	3.8	.1	1.3	8.1	2.3	4.7
22	.0	.0	.0	.0	.0	.0	3.6	.1	1.3	7.0	1.6	4.2
23	.0	.0	.0	.0	.0	.0	2.5	.3	1.1	7.3	1.6	4.1
24	.0	.0	.0	.0	.0	.0	2.3	.0	.9	6.4	1.6	4.2
25	.0	.0	.0	.1	.0	.0	2.2	.0	1.0	10.6	2.0	6.1
26	.0	.0	.0	.1	.0	.0	4.2	.6	2.4	8.1	2.2	5.5
27	.0	.0	.0	.3	.0	.1	6.4	.3	3.5	10.6	1.9	6.0
28	.0	.0	.0	.6	.0	.1	7.7	.9	3.9	10.3	2.0	5.9
29	---	---	---	.4	.0	.1	7.7	.4	3.7	8.7	2.2	5.2
30	---	---	---	.1	.0	.0	6.3	.4	3.3	10.3	2.2	5.9
31	---	---	---	.4	.0	.1	---	---	---	8.9	2.2	5.5
MONTH	.0	.0	.0	.6	.0	.0	7.7	.0	1.1	11.4	.3	4.8

09010500 COLORADO RIVER BELOW BAKER GULCH NEAR GRAND LAKE, CO--Continued
(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.6	2.5	6.3	12.5	6.1	9.2	13.9	10.1	12.0	12.0	9.1	10.5
2	10.4	2.5	6.3	13.5	6.4	10.0	13.1	8.0	10.7	14.9	7.5	11.2
3	10.1	2.7	6.1	12.3	7.3	10.0	14.3	9.4	11.5	16.0	8.9	12.5
4	5.7	2.7	4.2	11.5	6.9	9.2	14.9	9.7	12.1	16.8	9.7	13.2
5	7.5	1.6	4.1	12.0	6.7	9.5	16.7	9.4	13.1	17.2	10.3	13.6
6	6.9	1.2	4.3	12.0	8.1	9.7	17.3	9.5	13.4	17.0	10.6	13.8
7	8.6	3.0	5.9	12.0	7.0	9.7	16.8	9.2	13.2	16.4	10.1	13.3
8	7.0	3.8	5.4	12.1	7.8	10.0	15.9	9.8	13.2	17.0	10.4	13.6
9	9.2	2.7	5.9	10.3	8.0	9.5	15.7	11.4	13.4	14.6	10.8	12.9
10	8.1	3.6	6.0	12.1	7.2	9.8	14.0	10.1	11.8	15.3	9.4	12.6
11	7.5	3.1	5.3	14.9	8.1	11.2	14.0	8.6	11.2	14.5	10.1	12.6
12	9.1	3.8	6.2	15.6	8.4	12.0	14.8	8.7	11.7	13.9	10.9	12.2
13	7.7	4.4	6.0	16.2	8.4	12.2	14.6	8.7	11.6	11.5	10.0	10.7
14	5.9	3.9	4.9	13.2	9.1	11.4	14.5	9.1	12.0	14.8	8.6	11.4
15	8.6	2.8	5.7	13.1	8.1	10.8	16.7	9.8	13.1	14.6	8.4	11.4
16	6.6	4.1	5.4	16.0	8.4	12.1	16.2	10.3	13.1	15.1	8.7	11.7
17	5.7	3.7	4.6	17.5	9.5	13.2	15.4	9.8	12.8	13.5	8.0	10.9
18	7.0	1.7	3.9	18.1	10.0	13.8	14.6	10.0	12.3	14.0	7.8	10.9
19	12.1	3.0	7.3	18.4	10.8	14.5	15.1	9.1	12.1	14.2	8.3	11.2
20	10.0	4.2	7.3	18.6	10.9	14.7	15.9	10.0	12.9	11.2	8.0	9.8
21	9.7	4.4	6.7	15.1	11.4	13.4	15.3	10.0	12.8	11.4	6.7	8.9
22	10.3	3.5	7.0	14.6	10.4	12.6	16.2	11.5	13.7	---	---	---
23	11.4	3.8	7.6	13.9	10.6	12.4	16.8	10.3	13.5	---	---	---
24	10.6	3.6	7.2	14.3	10.6	12.4	17.2	11.1	13.8	---	---	---
25	12.0	3.3	7.6	15.1	10.9	12.6	14.9	10.4	13.0	---	---	---
26	12.1	4.1	8.1	15.4	10.6	13.0	15.9	10.6	13.3	---	---	---
27	12.8	4.4	8.5	15.6	10.3	13.2	16.0	11.2	13.5	---	---	---
28	13.2	4.7	8.9	15.1	11.4	13.2	17.2	9.1	13.0	---	---	---
29	13.2	5.3	9.1	12.3	10.4	11.4	17.8	9.7	13.7	---	---	---
30	12.5	5.6	9.0	14.2	9.7	11.9	17.2	10.4	13.9	---	---	---
31	---	---	---	14.9	9.2	11.9	15.9	8.4	12.3	---	---	---
MONTH	13.2	1.2	6.4	18.6	6.1	11.6	17.8	8.0	12.7	---	---	---

09013000 ALVA B. ADAMS TUNNEL AT EAST PORTAL, NEAR ESTES PARK, CO

LOCATION.--Lat 40°19'40", long 105°34'39", in SW¼NW¼ sec.9, T.4 N., R.73 W., Larimer County, Hydrologic Unit 10190006, on right bank at upstream end of Aspen Creek siphon, 700 ft downstream from east portal, and 4.5 mi southwest of Estes Park.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1946 to current year (monthly discharge only for August and September 1947).

GAGE.--Water-stage recorder with satellite telemetry, and Parshall flume. Elevation of gage is 8,250 ft above sea level, from topographic map. Prior to Oct. 1, 1950, water-stage recorder and Parshall flume at different datum. Oct. 1, 1950 to Sept. 30, 1952, water-stage recorder and Cippoletti weir at different datum.

REMARKS.--No estimated daily discharges. Records good. This is a transmountain diversion from Grand Lake and Shadow Mountain Lake for power and irrigation developments in the South Platte River basin as part of the Colorado-Big Thompson project. The published values include only the transmountain diversion and do not include the Wind River diversion. Diversion point is at west portal near town of Grand Lake, 13.35 mi west of east portal.

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

AVERAGE DISCHARGE.--52 years, 286 ft³/s; 207,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 592 ft³/s, June 30, 1962; no flow at times in most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	200	468	438	428	16	13	42	9.0	552	542	550
2	88	194	464	429	408	16	13	9.6	9.0	555	533	550
3	81	194	463	427	399	27	13	9.8	10	564	526	552
4	71	198	462	430	397	50	13	10	10	560	540	550
5	84	194	460	442	376	87	13	9.0	9.5	556	542	554
6	69	189	462	436	426	100	13	9.0	9.0	558	539	551
7	69	189	462	437	352	103	13	9.0	9.5	556	543	551
8	52	194	465	436	343	93	13	64	267	554	545	547
9	111	191	469	426	99	78	13	162	275	561	545	549
10	111	188	466	416	.40	94	13	226	192	557	545	546
11	155	196	453	427	.32	82	12	226	10	560	548	546
12	204	194	453	414	.30	48	12	226	61	546	546	547
13	204	200	454	407	281	16	12	228	16	549	544	548
14	204	199	453	407	422	.04	13	230	12	557	546	300
15	205	195	452	415	407	.00	13	228	156	556	542	135
16	203	194	372	497	334	.00	13	203	348	560	541	115
17	190	195	262	546	313	.00	13	209	380	560	539	132
18	1.5	193	440	523	308	.00	13	96	442	556	540	178
19	.75	175	407	427	327	.00	13	7.0	527	542	540	189
20	.78	197	414	403	332	.79	13	22	347	319	540	215
21	.75	196	453	409	333	1.7	13	52	532	468	541	229
22	.75	179	439	434	335	1.6	9.1	16	542	498	543	287
23	55	198	446	445	330	1.6	14	18	542	491	541	257
24	429	347	429	440	307	1.6	14	18	542	514	541	268
25	434	434	423	430	275	1.8	14	18	540	522	547	131
26	429	463	451	419	184	.13	14	18	550	471	545	174
27	199	464	459	391	13	63	14	18	548	463	543	203
28	226	471	459	408	16	10	14	18	546	463	544	186
29	211	471	461	409	---	13	14	18	544	464	552	213
30	190	469	455	408	---	13	14	18	544	452	551	188
31	193	---	453	422	---	13	---	10	---	485	550	---
TOTAL	4471.53	7561	13729	13398	7746.02	931.26	391.1	2447.4	8529.0	16169	16824	10541
MEAN	144	252	443	432	277	30.0	13.0	78.9	284	522	543	351
MAX	434	471	469	546	428	103	14	230	550	564	552	554
MIN	.00	175	262	391	.30	.00	9.1	7.0	9.0	319	526	115
AC-FT	8870	15000	27230	26570	15360	1850	776	4850	16920	32070	33370	20910

CAL YR 1997 TOTAL 116540.95 MEAN 319 MAX 551 MIN .00 AC-FT 231200
WTR YR 1998 TOTAL 102738.31 MEAN 281 MAX 564 MIN .00 AC-FT 203800

09013000 ALVA B. ADAMS TUNNEL AT EAST PORTAL, NEAR ESTES PARK, CO--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Field data collected prior to 1974 water year are available in district office.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
NOV										
25...	1018	551	30	7.3	4.0	8.3	13	4.0	0.79	1.3
JAN										
20...	1036	406	43	7.6	2.5	8.5	18	5.6	1.1	1.6
MAR										
16...	0922	10	54	8.1	3.5	--	21	6.3	1.2	2.8
MAY										
14...	1145	232	43	7.6	5.2	8.7	17	5.1	0.96	1.5
AUG										
06...	0945	546	34	8.4	16.3	7.5	14	4.1	0.79	1.2
SEP										
08...	0900	555	44	8.5	16.0	7.4	19	5.7	1.1	1.7

DATE	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 AC-FT) (70303)
NOV										
25...	0.2	0.5	16	1.9	0.5	0.1	4.6	23	23	0.03
JAN										
20...	0.2	0.6	21	1.9	0.3	0.2	5.3	39	29	0.05
MAR										
16...	0.3	0.7	25	2.7	0.4	0.2	5.6	42	36	0.06
MAY										
14...	0.2	0.6	18	2.2	0.3	0.2	5.3	32	27	0.04
AUG										
06...	0.1	0.4	16	1.7	0.3	0.1	4.3	27	23	0.04
SEP										
08...	0.2	0.6	21	2.1	0.3	0.1	5.4	42	29	0.06

DATE	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 TOTAL (MG/L AS N) (00605)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
NOV									
25...	34.2	<0.01	0.07	<0.02	--	<0.1	<0.01	<0.01	0.02
JAN									
20...	42.8	0.01	0.06	<0.02	--	<0.1	<0.01	<0.01	<0.01
MAR									
16...	1.13	0.02	0.05	<0.02	--	0.2	<0.01	<0.01	<0.01
MAY									
14...	20.0	<0.01	0.06	<0.02	--	0.2	<0.01	<0.01	<0.01
AUG									
06...	39.8	<0.01	<0.05	0.04	0.24	0.3	<0.01	<0.01	<0.01
SEP									
08...	62.9	<0.01	<0.05	0.02	0.32	0.3	<0.01	<0.01	<0.01

09013000 ALVA B. ADAMS TUNNEL AT EAST PORTAL, NEAR ESTES PARK, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)
NOV									
25...	4	<0.5	<4	<1	<5	<3	<10	17	<10
JAN									
20...	6	<1	<16	<8	<14	<12	<10	19	<100
MAR									
16...	6	<1	<16	<8	<14	<12	<10	17	<100
MAY									
14...	6	<1	<16	<8	<14	<12	<10	24	<100
AUG									
06...	5	<1	<16	<8	<14	<12	<10	28	<100
SEP									
08...	6	<1	<16	<8	<14	<12	<10	30	<100

DATE	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	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)
NOV									
25...	<4	<4	10	<10	<10	<1	23	<6	<3
JAN									
20...	<4	<4	<10	<60	<40	<4	33	<10	<20
MAR									
16...	5	5	10	<60	<40	<4	37	<10	<20
MAY									
14...	<4	<4	<10	<60	<40	<4	29	<10	<20
AUG									
06...	<4	<4	10	<60	<40	<4	23	<10	<20
SEP									
08...	<4	<4	10	<60	<40	<4	33	<10	<20

09014500 SHADOW MOUNTAIN LAKE NEAR GRAND LAKE, CO

LOCATION.--Lat 40°12'26", long 105°50'27", in SW¼NW¼ sec.19, T.3 N., R.75 W., Grand County, Hydrologic Unit 14010001, in gate house on left side of outlet gates near center of Shadow Mountain Dam on Colorado River, 1.0 mi upstream from Pole Creek and 3.2 mi south of town of Grand Lake.

DRAINAGE AREA.--185 mi^2.

RESERVOIR ELEVATIONS AND CONTENTS RECORDS

PERIOD OF RECORD.--April 1947 to current year. Prior to October 1960, published as Shadow Mountain Reservoir near Grand Lake.

REVISED RECORDS.--WSP 1149: 1947-48. 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. Supplementary water-stage recorder on Grand Lake, 800 ft north of outlet gates and 2.9 mi north of Shadow Mountain Dam.

REMARKS.--Lake is formed by earth and rockfill dam and dikes. Storage began in April 1947. Capacity, 17,860 acre-ft, including usable capacity of Grand Lake above elevation 8,365 ft, between elevation 8,347 ft, sill of outlet gate, and 8,367 ft, maximum water surface. Dead storage in Shadow Mountain Lake, 506 acre-ft. Dead storage in Grand Lake not determined. Shadow Mountain Lake is used for stabilization of water level in Grand Lake. Usable capacity for diversion through Alva B. Adams tunnel, 3,660 acre-ft between elevations 8,365 ft, crest of tunnel inlet and 8,367 ft, maximum water surface. Figures given represent usable contents as determined from summation of individual contents of Grand Lake and Shadow Mountain Lake. Transmountain diversion from Colorado River basin, including water pumped from Lake Granby, is effected through Grand Lake and Alva B. Adams tunnel, for power and irrigation in South Platte River basin.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 17,920 acre-ft, May 22, 1955, elevation, 8,367.03 ft; minimum since appreciable storage was first attained, 2,630 acre-ft, May 14, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 17,460 acre-ft, Oct. 20, elevation, 8,366.81 ft; minimum, 16,640 acre-ft, May 31, elevation, 8,366.31 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	8,366.70	17,280	-
Oct. 31	8,366.69	17,250	-30
Nov. 30	8,366.69	17,260	+10
Dec. 31	8,366.70	17,270	+10
CAL YR 1997	-	-	+40
Jan. 31	8,366.66	17,220	-50
Feb. 28	8,366.65	17,200	-20
Mar. 31	8,366.70	17,280	+80
Apr. 30	8,366.67	17,250	-30
May 31	8,366.31	16,640	-610
June 30	8,366.71	17,300	+660
July 31	8,366.58	17,050	-250
Aug. 31	8,366.65	17,150	+100
Sept. 30	8,366.61	17,120	-30
WTR YR 1998	-	-	-160

09014500 SHADOW MOUNTAIN LAKE NEAR GRAND LAKE, CO--Continued
WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1989 to current year.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT						
08...	1115	0.1	48	8.3	11.1	8.1
08...	1116	5.0	48	8.3	11.3	8.1
08...	1117	10	48	8.3	11.3	8.1
08...	1118	15	48	8.3	11.3	8.1
08...	1119	20	48	8.2	11.3	8.0
08...	1120	25	53	7.2	10.5	4.2
MAY						
27...	1300	0.1	47	8.0	11.7	8.2
27...	1301	5.0	47	8.0	11.5	8.3
27...	1302	10	45	7.9	9.7	8.1
27...	1303	15	45	7.8	9.3	8.0
27...	1304	20	45	7.8	9.0	8.0
27...	1305	25	45	7.7	8.2	7.1
AUG						
26...	1150	0.1	50	7.5	12.4	6.5
26...	1151	5.0	50	7.5	12.2	6.5
26...	1152	10	49	7.4	10.6	6.0
26...	1153	15	49	7.4	10.3	5.6
26...	1154	20	49	7.3	10.1	5.5
26...	1155	25	49	7.3	10.0	5.3
SEP						
30...	1130	0.1	50	7.5	12.1	--
30...	1131	5.0	49	7.7	11.6	--
30...	1132	10	49	7.7	11.2	--
30...	1133	15	49	7.6	11.1	--
30...	1134	20	49	7.5	10.0	--
30...	1135	24	49	7.4	9.9	--

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
OCT											
08...	1130	0.1	48	8.3	11.1	80.0	8.1	<1	23	6.9	1.5
08...	1145	25	53	7.2	10.5	--	4.2	--	24	7.1	1.5
MAY											
27...	1315	0.1	47	8.0	11.7	70.0	8.2	K1	20	6.0	1.3
27...	1330	25	46	7.7	8.2	--	7.1	--	20	5.8	1.3
AUG											
26...	1200	0.1	50	7.5	12.4	102	6.5	<1	21	6.5	1.2
26...	1215	25	49	7.3	10.0	--	5.3	--	21	6.4	1.2
SEP											
30...	1145	0.1	50	7.5	12.1	101	5.3	<1	22	6.7	1.3
30...	1200	24	49	7.4	9.9	--	3.8	--	22	6.6	1.2

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)
OCT										
08...	1.7	0.2	0.7	24	3.0	0.3	0.2	5.8	38	34
08...	1.7	0.2	0.7	24	3.1	0.2	0.2	6.2	39	35
MAY										
27...	1.7	0.2	0.8	22	2.8	0.3	<0.1	6.2	38	33
27...	1.6	0.2	0.7	21	2.9	0.2	0.1	6.6	38	32
AUG										
26...	1.8	0.2	0.6	23	2.5	0.4	0.1	5.8	35	33
26...	1.8	0.2	0.6	23	2.5	0.4	0.1	5.8	37	33
SEP										
30...	1.8	0.2	0.6	24	--	--	--	4.6	--	--
30...	1.7	0.2	0.6	24	--	--	--	4.8	--	--

K-Based on non-ideal colony count.

09014500 SHADOW MOUNTAIN LAKE NEAR GRAND LAKE, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT										
08...	<0.01	<0.05	0.02	0.3	0.01	<0.01	<0.01	7.6	0.3	--
08...	<0.01	<0.05	0.02	0.3	0.02	<0.01	<0.01	--	--	--
MAY										
27...	0.01	0.07	0.08	0.2	<0.01	<0.01	<0.01	--	--	4.4
27...	0.02	<0.05	0.06	0.2	0.02	<0.01	<0.01	--	--	4.6
AUG										
26...	<0.01	<0.05	<0.02	0.1	<0.01	<0.01	<0.01	6.9	<0.1	4.2
26...	<0.01	<0.05	<0.02	0.2	<0.01	<0.01	<0.01	--	--	3.6
SEP										
30...	<0.01	0.05	<0.02	0.2	0.01	0.01	<0.01	3.5	0.2	4.0
30...	<0.01	0.05	<0.02	0.2	<0.05	<0.05	<0.01	--	--	3.8

DATE	TIME	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)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT									
08...	1130	6	<0.5	<4	<1	<5	<3	<10	95
08...	1145	6	<0.5	<4	<1	<5	<3	<10	93
MAY									
27...	1315	6	<1.0	<16	<8	<14	<12	<10	130
27...	1330	6	<1.0	<16	<8	<14	<12	<10	120
AUG									
26...	1200	8	<1.0	<16	<8	<14	<12	<10	29
26...	1215	8	<1.0	<16	<8	<14	<12	<10	23
SEP									
30...	1145	7	<1.6	<16	<8	<14	<7	<10	22
30...	1200	7	<1.6	<16	<8	<14	<7	<10	12

DATE	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)	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									
08...	<10	<4	1	<10	<10	<0.2	38	<6	<3
08...	<10	<4	13	<10	<10	<0.2	39	<6	<3
MAY									
27...	<100	<4	4	<60	<40	<0.2	34	<10	<20
27...	<100	<4	14	<60	<40	<0.2	32	<10	<20
AUG									
26...	<100	<4	6	<60	<40	<0.2	39	<10	<20
26...	<100	<4	8	<60	<40	<0.2	39	<10	<20
SEP									
30...	<100	<6	<3	<50	<40	<0.2	39	<10	<20
30...	<100	<6	<3	<50	<40	<0.2	38	<10	<20

09018300 GRANBY PUMP CANAL NEAR GRAND LAKE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°12'25", long 105°50'56", in SW¼NE¼ 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 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
NOV										
25...	1030	768	49	8.0	4.5	7.9	20	6.0	1.1	1.7
FEB										
20...	1000	390	50	7.4	3.0	7.0	20	6.2	1.1	1.7
AUG										
13...	0700	818	52	7.4	7.5	6.3	21	6.6	1.2	1.8

DATE	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)
NOV									
25...	0.2	0.6	23	2.2	0.4	0.1	5.1	37	31
FEB									
20...	0.2	0.6	22	2.4	0.3	0.1	5.2	45	31
AUG									
13...	0.2	0.7	23	2.6	0.3	0.1	5.7	30	33

DATE	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, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	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)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
NOV									
25...	0.05	76.7	<0.01	0.2	<0.05	<0.02	0.01	<0.01	---
FEB									
20...	0.06	47.4	<0.01	0.2	0.08	<0.02	<0.01	<0.01	0.01
AUG									
13...	0.04	66.3	<0.01	0.2	0.07	---	<0.01	<0.01	0.01

DATE	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)
NOV								
25...	7	<0.5	<1	<5	<3	<10	7	<10
FEB								
20...	7	<1	<8	<14	<12	<10	<10	<100
AUG								
13...	8	<1	<8	<14	<12	<10	<10	<100

09018300 GRANBY PUMP CANAL NEAR GRAND LAKE, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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)
NOV								
25...	<4	<1	<10	<10	<1	37	<6	<3
FEB								
20...	<4	<4	<60	<40	<4	37	<10	<20
AUG								
13...	<4	4	<60	<40	<4	39	<10	<20

09018500 LAKE GRANBY NEAR GRANBY, CO

LOCATION.--Lat 40°10'55", long 105°52'14", in NW¼NE¼ 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 mi^2.

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.

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 FOR CURRENT YEAR.--Maximum contents, 464,000 acre-ft, July 1, elevation, 8,279.78 ft; minimum, 371,800 acre-ft, May 2, elevation, 8,266.55 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	8,278.99	458,300	-
Oct. 31	8,278.57	455,200	-3,100
Nov. 30	8,276.85	442,900	-12,300
Dec. 31	8,273.17	417,000	-25,900
CAL YR 1997	-	-	+20,500
Jan. 31	8,269.68	392,900	-24,100
Feb. 28	8,267.65	379,200	-13,700
Mar. 31	8,267.77	380,000	+800
Apr. 30	8,266.57	372,000	-8,000
May 31	8,272.79	414,400	+42,400
June 30	8,279.76	463,800	+49,400
July 31	8,279.06	458,800	-5,000
Aug. 31	8,276.22	438,500	-20,300
Sept. 30	8,273.79	421,300	-17,200
WTR YR 1998	-	-	-37,000

09018500 LAKE GRANBY NEAR GRANBY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1973 to June 1975, June 1979 to current year.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT						
09...	0935	0.1	41	7.5	12.7	7.3
09...	0936	5.0	41	7.6	12.7	7.3
09...	0937	10	41	7.6	12.7	7.3
09...	0938	15	41	7.6	12.7	7.2
09...	0939	20	41	7.6	12.7	7.2
09...	0940	25	41	7.5	12.7	7.2
09...	0941	30	41	7.5	12.7	7.2
09...	0942	40	41	7.5	12.7	7.2
09...	0943	50	42	7.2	12.2	5.9
09...	0944	60	43	6.9	8.1	3.8
09...	0945	70	44	6.8	7.7	3.6
09...	0946	80	44	6.8	6.9	3.7
09...	0947	90	44	6.7	6.8	3.6
09...	0948	100	44	6.7	6.6	3.7
09...	0949	110	44	6.7	6.6	3.6
09...	0950	120	44	6.7	6.4	3.7
09...	0951	130	44	6.7	6.4	3.7
09...	0952	140	44	6.7	6.4	3.6
09...	0953	150	44	6.7	6.3	3.6
09...	0954	160	44	6.7	6.3	3.6
MAY						
27...	1010	0.1	48	7.8	9.8	8.4
27...	1011	5.0	47	7.8	9.2	8.5
27...	1012	10	47	7.8	8.9	8.7
27...	1013	15	47	7.8	8.9	8.8
27...	1014	20	47	7.8	8.9	8.9
27...	1015	25	47	7.8	8.8	9.0
27...	1016	30	47	7.8	8.8	9.1
27...	1017	40	46	7.7	7.8	8.6
27...	1018	50	46	7.6	6.4	8.0
27...	1019	60	46	7.6	6.2	7.8
27...	1020	70	46	7.5	6.0	7.6
27...	1021	80	46	7.5	5.6	7.1
27...	1022	90	46	7.4	5.0	6.4
27...	1023	100	46	7.4	4.9	6.2
27...	1024	110	46	7.4	4.8	6.1
27...	1025	120	46	7.3	4.8	5.9
AUG						
26...	0945	0.1	50	8.2	18.4	7.1
26...	0946	5.0	50	8.2	18.4	7.1
26...	0947	10	50	8.2	18.3	7.1
26...	0948	15	50	8.2	18.3	7.1
26...	0949	20	50	8.2	18.3	7.1
26...	0950	25	50	8.2	18.3	7.0
26...	0951	30	50	7.7	14.9	4.5
26...	0952	40	48	7.6	12.2	4.5
26...	0953	50	47	7.5	10.3	4.3
26...	0954	60	48	7.3	8.6	3.7
26...	0955	70	48	7.2	7.3	3.3
26...	0956	80	48	7.2	6.8	3.4
26...	0957	90	48	7.2	6.6	3.4
26...	0958	100	48	7.2	6.5	3.4
26...	0959	110	48	7.1	6.4	3.4
26...	1000	120	48	7.1	6.4	3.3
26...	1001	130	48	7.1	6.4	3.3
26...	1002	140	48	7.1	6.3	3.2
26...	1003	150	48	7.0	6.3	3.2
SEP						
30...	1017	0.1	48	7.7	15.2	
30...	1018	5.0	48	7.7	15.2	--
30...	1019	10	48	7.8	15.1	--
30...	1020	15	48	7.7	15.0	--
30...	1021	20	49	7.7	14.9	--
30...	1022	25	48	7.7	14.8	--
30...	1023	30	48	7.7	14.8	--
30...	1024	40	49	7.7	14.8	--
30...	1025	50	46	7.3	10.6	--
30...	1026	60	48	7.2	8.6	--
30...	1027	70	48	7.1	7.9	--
30...	1028	80	48	7.0	7.6	--
30...	1029	90	47	7.0	7.4	--
30...	1030	100	47	7.0	7.3	--
30...	1031	110	47	6.9	7.1	--
30...	1032	120	47	6.9	7.0	--
30...	1033	130	47	6.9	7.0	--
30...	1039	139	47	6.9	7.0	--

09018500 LAKE GRANBY NEAR GRANBY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
OCT											
09...	1000	0.1	41	7.5	12.7	183	7.3	<1	19	5.9	1.1
09...	1015	160	44	6.7	6.3	--	3.6	--	22	6.6	1.2
MAY											
27...	1030	0.1	48	7.8	9.8	128	8.4	<1	21	6.4	1.2
27...	1045	120	46	7.3	4.8	--	5.9	--	21	6.4	1.2
AUG											
26...	1015	0.1	50	8.2	18.4	220	7.1	<1	21	6.4	1.2
26...	1030	150	48	7.0	6.3	--	3.2	--	21	6.3	1.2
SEP											
30...	1045	0.1	48	7.7	15.2	182	--	<1	21	6.5	1.2
30...	1100	139	47	6.9	7.0	--	--	--	21	6.4	1.2

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)
OCT										
09...	1.7	0.2	0.6	21	1.7	0.3	<0.1	4.8	31	29
09...	2.0	0.2	0.6	23	2.0	0.4	0.1	5.7	37	33
MAY										
27...	1.8	0.2	0.6	23	2.5	0.3	<0.1	5.4	37	32
27...	1.8	0.2	0.6	23	2.4	0.3	<0.1	5.5	36	32
AUG										
26...	1.8	0.2	0.6	23	2.4	0.4	0.1	5.1	34	32
26...	1.8	0.2	0.6	22	2.5	0.4	0.1	5.7	36	32
SEP										
30...	1.7	0.2	0.6	23	2.2	0.4	<0.1	4.6	38	31
30...	1.7	0.2	0.6	23	2.3	0.4	<0.1	5.9	40	33

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT										
09...	<0.01	<0.05	<0.02	<0.2	<0.01	<0.01	<0.01	2.2	<0.1	--
09...	<0.01	0.09	<0.02	<0.2	0.02	<0.01	<0.01	--	--	--
MAY										
27...	0.01	<0.05	0.02	0.1	<0.01	<0.01	0.02	1.2	<0.1	3.4
27...	0.02	0.08	0.07	<0.1	<0.01	<0.01	<0.01	--	--	3.5
AUG										
26...	<0.01	<0.05	<0.02	0.2	<0.01	<0.01	<0.01	1.2	<0.1	3.5
26...	<0.01	<0.05	<0.02	0.1	<0.01	<0.01	<0.01	--	--	3.2
SEP										
30...	<0.01	0.05	<0.02	0.2	<0.05	<0.05	<0.01	2	0.2	3.6
30...	<0.01	0.12	<0.02	0.2	<0.05	<0.05	<0.01	--	--	3.5

DATE	TIME	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)
OCT									
09...	1000	8	<0.5	<4	1	<5	<3	<10	6
09...	1015	8	<0.5	4	<1	<5	<3	<10	11
MAY									
27...	1030	8	<1.0	<16	<8	<14	<12	<10	13
27...	1045	7	<1.0	<16	<8	<14	<12	<10	17
AUG									
26...	1015	8	<1.0	<16	<8	<14	<12	<10	10
26...	1030	8	<1.0	<16	<8	<14	<12	<10	<10
SEP									
30...	1045	8	<1.6	<16	<8	<14	<7	<10	<10
30...	1100	8	<1.6	<16	<8	<14	<7	<10	11

09018500 LAKE GRANBY NEAR GRANBY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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)	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									
09...	10	<4	<1	<10	<10	<0.2	35	<6	<3
09...	<10	<4	2	<10	<10	<0.2	41	<6	<3
MAY									
27...	<100	<4	<4	<60	<40	<0.2	39	<10	<20
27...	<100	<4	<4	<60	<40	<0.2	38	<10	<20
AUG									
26...	<100	<4	<4	<60	<40	<0.2	39	<10	<20
26...	<100	<4	<4	<60	<40	<0.2	39	<10	<20
SEP									
30...	<100	<6	<3	<50	<40	<0.2	37	<10	<20
30...	<100	<6	7	<50	<40	<0.2	38	<10	<20

400844105530800 LAKE GRANBY (WEST) NEAR GRANBY, CO

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1989 to current year.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT						
09...	1040	0.1	41	7.6	12.7	7.4
09...	1041	5.0	41	7.6	12.6	7.4
09...	1042	10	41	7.6	12.6	7.3
09...	1043	15	41	7.5	12.5	7.3
09...	1044	20	41	7.5	12.5	7.3
09...	1045	25	41	7.5	12.5	7.3
09...	1046	30	41	7.5	12.5	7.3
09...	1047	40	41	7.5	12.5	7.3
09...	1048	50	42	7.4	12.1	7.0
09...	1049	60	44	6.8	8.3	3.4
09...	1050	70	44	6.8	7.6	3.2
MAY						
27...	1115	0.1	54	7.8	9.5	8.3
27...	1116	5.0	53	7.8	9.1	8.4
27...	1117	10	53	7.8	8.8	8.5
27...	1118	15	55	7.7	8.8	8.5
27...	1119	20	55	7.7	8.7	8.5
27...	1120	25	56	7.7	8.6	8.5
27...	1121	30	55	7.7	8.6	8.5
27...	1122	40	53	7.7	8.4	8.5
27...	1123	50	54	7.6	7.7	8.2
27...	1124	60	51	7.5	6.9	7.9
AUG						
26...	1047	0.1	51	8.1	18.9	7.2
26...	1048	5.0	50	8.2	18.4	7.2
26...	1049	10	50	8.2	18.4	7.2
26...	1050	15	50	8.2	18.4	7.2
26...	1051	20	50	8.2	18.3	7.1
26...	1052	25	51	8.1	18.2	7.0
26...	1053	30	53	7.6	16.2	4.9
26...	1054	40	49	7.4	12.4	4.2
26...	1055	50	49	7.3	10.2	3.7
26...	1056	60	49	7.1	8.2	2.7
26...	1057	70	49	7.0	7.6	2.2
SEP						
30...	0935	0.1	49	7.7	14.9	--
30...	0936	5.0	49	7.7	14.9	--
30...	0937	10	49	7.7	14.9	--
30...	0938	15	49	7.6	14.9	--
30...	0939	20	49	7.6	14.9	--
30...	0940	25	49	7.6	14.9	--
30...	0941	30	49	7.6	14.9	--
30...	0942	40	49	7.6	14.7	--
30...	0943	50	48	7.3	11.0	--
30...	0944	60	48	7.1	8.4	--
30...	0945	70	48	7.0	7.9	--

400844105530800 LAKE GRANBY (WEST) NEAR GRANBY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
OCT											
09...	1100	0.1	41	7.6	12.7	175	7.4	K1	19	5.9	1.1
09...	1115	70	44	6.8	7.6	--	3.2	--	21	6.3	1.2
MAY											
27...	1130	0.1	54	7.8	9.5	87	8.3	K1	24	7.2	1.4
27...	1145	60	51	7.5	6.9	--	7.9	--	22	6.8	1.3
AUG											
26...	1100	0.1	51	8.1	18.9	162	7.2	<1	21	6.5	1.2
26...	1115	70	50	7.0	7.6	--	2.2	--	21	6.5	1.2
SEP											
30...	1000	0.1	49	7.7	14.9	137	--	K1	21	6.5	1.2
30...	1015	70	48	7.0	7.9	--	--	--	21	6.6	1.2

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)
OCT										
09...	1.7	0.2	0.6	21	1.7	0.3	<0.1	4.8	34	29
09...	1.9	0.2	0.7	23	1.9	0.4	<0.1	5.5	36	32
MAY										
27...	2.3	0.2	0.6	26	3.1	0.3	<0.1	6.6	42	38
27...	2.1	0.2	0.6	25	2.8	0.3	<0.1	6.0	44	35
AUG										
26...	1.8	0.2	0.6	23	2.4	0.4	0.1	5.2	32	32
26...	1.8	0.2	0.6	23	2.5	0.4	0.1	5.7	37	33
SEP										
30...	1.7	0.2	0.6	23	--	--	--	4.7	--	--
30...	1.7	0.2	0.6	23	--	--	--	5.8	--	--

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT										
09...	<0.01	<0.05	<0.02	<0.2	<0.01	<0.01	<0.01	2.3	<0.1	--
09...	<0.01	<0.05	<0.02	<0.2	0.02	<0.01	<0.01	--	--	--
MAY										
27...	0.01	0.07	0.08	0.1	<0.01	<0.01	<0.01	1.7	<0.1	3.7
27...	0.01	0.05	0.07	0.4	0.01	0.02	<0.01	--	--	3.6
AUG										
26...	<0.01	<0.05	<0.02	0.1	<0.01	<0.01	<0.01	0.7	<0.1	3.6
26...	<0.01	<0.05	<0.02	0.2	<0.01	<0.01	<0.01	--	--	3.5
SEP										
30...	<0.01	0.05	<0.02	0.2	<0.05	<0.01	<0.01	1.7	0.2	3.6
30...	<0.01	0.10	<0.02	0.2	<0.05	0.01	<0.01	--	--	3.4

K-Based on non-ideal colony count.

400844105530800 LAKE GRANBY (WEST) NEAR GRANBY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	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)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT									
09...	1100	8	<0.5	<4	<1	<5	<3	<10	<3
09...	1115	7	<0.5	6	<1	<5	<3	<10	13
MAY									
27...	1130	9	<1.0	<16	<8	<14	<12	<10	20
27...	1145	8	<1.0	<16	<8	<14	<12	<10	13
AUG									
26...	1100	8	<1.0	<16	<8	<14	<12	<10	<10
26...	1115	8	<1.0	<16	<8	<14	<12	<10	<10
SEP									
30...	1000	8	<1.6	<16	<8	<14	<7	<10	<10
30...	1015	8	<1.6	<16	<8	<14	<7	<10	<10

DATE	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)	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									
09...	<10	<4	<1	<10	<10	<0.2	34	<6	<3
09...	<10	<4	5	<10	<10	<0.2	38	<6	<3
MAY									
27...	<100	<4	<4	<60	<40	<0.2	51	<10	<20
27...	<100	<4	<4	<60	<40	<0.2	45	<10	<20
AUG									
26...	<100	<4	<4	<60	<40	<0.2	39	<10	--
26...	<100	<4	7	<60	<40	<0.2	40	<10	<20
SEP									
30...	<100	<6	<3	<50	<40	<0.2	38	<10	<20
30...	<100	<6	15	<50	<40	<0.2	39	<10	<20

09019500 COLORADO RIVER NEAR GRANBY, CO

LOCATION.--Lat 40°07'15", long 105°54'00", in SW¼NW¼ 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 mi^2.

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 ft^3/s, June 22, 1996, gage height, 5.76 ft; minimum daily, 9.6 ft^3/s, Sept. 21, 1981.

EXTREMES FOR PERIOD OF CONTINUOUS RECORD.--Maximum discharge observed, 4,100 ft^3/s, June 20, 1909, gage height, 5.5 ft, site and datum then in use; minimum daily, 6.6 ft^3/s, Jan. 29, 1950; minimum observed prior to starting construction of Shadow Mountain Lake, 20 ft^3/s, Apr. 6, 1936 (discharge measurement).

EXTREMES FOR CURRENT SEASON.--Maximum discharge, 1,200 ft^3/s at 1215 July 1, gage height, 4.02 ft; minimum daily, 21 ft^3/s, Sept. 3-7, 10-11, 14-19, and 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	---	---	---	---	---	---	294	80	1070	48	36
2	28	---	---	---	---	---	---	295	81	1190	46	23
3	28	---	---	---	---	---	---	295	80	978	40	21
4	28	---	---	---	---	---	---	297	79	789	34	21
5	29	---	---	---	---	---	---	298	74	641	34	21
6	30	---	---	---	---	---	---	299	72	414	33	21
7	30	---	---	---	---	---	---	301	76	311	38	21
8	30	---	---	---	---	---	---	298	75	309	44	24
9	29	---	---	---	---	---	---	298	77	178	44	22
10	29	---	---	---	---	---	---	301	76	77	44	21
11	30	---	---	---	---	---	---	301	76	79	44	21
12	31	---	---	---	---	---	---	175	72	75	43	22
13	31	---	---	---	---	---	---	93	71	69	43	22
14	31	---	---	---	---	---	---	97	75	71	43	21
15	---	---	---	---	---	---	---	91	76	76	43	21
16	---	---	---	---	---	---	---	75	73	72	43	21
17	---	---	---	---	---	---	269	75	72	73	43	21
18	---	---	---	---	---	---	280	76	79	73	43	21
19	---	---	---	---	---	---	279	78	72	73	43	21
20	---	---	---	---	---	---	281	73	64	74	43	22
21	---	---	---	---	---	---	283	73	68	74	43	22
22	---	---	---	---	---	---	270	79	68	72	43	22
23	---	---	---	---	---	---	279	79	67	73	43	22
24	---	---	---	---	---	---	283	77	68	73	43	21
25	---	---	---	---	---	---	282	76	67	73	43	25
26	---	---	---	---	---	---	284	77	67	73	43	24
27	---	---	---	---	---	---	196	77	71	73	44	28
28	---	---	---	---	---	---	181	77	225	74	43	28
29	---	---	---	---	---	---	289	77	470	74	43	26
30	---	---	---	---	---	---	292	77	687	71	43	26
31	---	---	---	---	---	---	---	83	---	64	44	---
TOTAL	---	---	---	---	---	---	---	4962	3358	7486	1311	688
MEAN	---	---	---	---	---	---	---	160	112	241	42.3	22.9
MAX	---	---	---	---	---	---	---	301	687	1190	48	36
MIN	---	---	---	---	---	---	---	73	64	64	33	21
AC-FT	---	---	---	---	---	---	---	9840	6660	14850	2600	1360

09020700 WILLOW CREEK RESERVOIR NEAR GRANBY, CO

LOCATION.--Lat 40°08'49", long 105°56'31", in SE1/4 sec.7, T.2 N., R.76 W., Grand County, Hydrologic Unit 14010001, in shaft house near right end of Willow Creek Dam, 3.2 mi upstream from mouth, and 4.2 mi north of Granby.

DRAINAGE AREA.--134 mi^2.

PERIOD OF RECORD.--May 1953 to current year.

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.

REMARKS.--Reservoir is formed by earth and rockfill dam; storage began March 1953. Dead storage pool filled May 3, 1953. Usable capacity, 9,060 acre-ft between elevations 8,077.00 ft, trash rack sill at outlet, and 8,130.00 ft, crest of spillway. Dead storage, 1,490 acre-ft. Figures given represent usable contents. Water is pumped to Lake Granby for transmountain diversion for irrigation and power in South Platte River basin.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 9,100 acre-ft, May 24, 1984, elevation, 8,130.12 ft; minimum, 50 acre-ft, Dec. 4, 1985 to Jan. 17, 1986, drawdown for maintenance, elevation, 8,077.50 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 8,580 acre-ft, Oct. 1, elevation, 8,128.34 ft; minimum, 5,590 acre-ft, Nov. 16, elevation, 8,116.30 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	8,128.25	8,550	-
Oct. 31	8,122.02	6,890	-1,660
Nov. 30	8,118.14	5,980	-910
Dec. 31	8,120.92	6,620	+640
CAL YR 1997			+20
Jan. 31	8,123.34	7,220	+600
Feb. 28	8,125.17	7,690	+470
Mar. 31	8,122.37	6,980	-710
Apr. 30	8,117.04	5,750	-1,230
May 31	8,126.93	8,170	+2,420
June 30	8,125.52	7,790	-380
July 31	8,127.08	8,220	+430
Aug. 31	8,127.17	8,240	+20
Sept. 30	8,125.97	7,910	-330
WTR YR 1998			-640

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

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.

DRAINAGE AREA.--10.5 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May to September 1908, July to November 1909 (published as "at upper station near Fraser"), October 1968 to September 1973, August 1984 to current year. January to September 1911, gage heights only (published as "near Fraser"). Records for August to December 1910, published in WSP 289 as "near Fraser" are unreliable and should not be used.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 9,520 ft above sea level, from topographic map. Prior to Oct. 1, 1968, nonrecording gage at site 0.9 mi upstream at different datum. Since Oct. 1, 1968, supplementary water-stage recorder and Parshall flume on Berthoud Pass ditch.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station through Berthoud Pass ditch to Moffat water tunnel, (see elsewhere in this report).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	e5.6	e6.0	e4.0	e2.5	e2.1	e3.2	e5.2	67	67	23	11
2	8.6	e5.6	e6.0	e4.0	e2.5	e2.1	e3.2	e5.4	78	61	21	11
3	9.3	e5.6	e6.0	e4.0	e2.5	e2.1	e3.2	e5.4	93	52	21	10
4	8.6	e5.6	e6.4	e4.0	e2.5	e2.1	e3.2	e5.3	83	46	20	10
5	8.1	e5.6	e6.4	e3.7	e2.5	e2.1	e3.2	e6.4	62	41	19	9.9
6	7.7	e5.6	e6.4	e3.6	e2.4	e2.1	e3.2	e9.2	48	40	18	9.7
7	7.5	e5.0	e6.4	e3.5	e2.3	e2.1	e3.2	8.9	43	36	18	9.5
8	8.0	e4.8	e6.4	e3.3	e2.3	e2.1	e3.2	8.1	39	33	17	9.3
9	7.7	e4.6	e6.4	e3.1	e2.3	e2.0	e3.2	8.2	38	33	18	9.2
10	7.7	e4.6	e6.4	e3.0	e2.3	e2.1	e3.2	10	38	33	17	9.0
11	7.3	e4.6	e6.4	e2.9	e2.3	e2.1	e3.3	11	38	32	17	8.8
12	8.6	e4.6	e5.6	e2.8	e2.3	e2.1	e3.4	12	39	30	16	10
13	8.3	e4.6	e5.0	e2.8	e2.3	e2.1	e3.5	15	44	28	15	8.8
14	7.2	e4.6	e5.0	e2.7	e2.3	e2.1	e3.3	15	41	26	15	8.0
15	7.3	e4.6	e5.0	e2.7	e2.3	e2.1	e3.2	13	38	24	15	7.7
16	7.0	e5.0	e5.0	e2.7	e2.3	e2.1	e3.1	14	37	23	14	7.4
17	7.0	e5.0	e5.0	e2.7	e2.3	e2.1	e3.1	18	40	22	14	7.2
18	7.4	e5.0	e5.0	e2.7	e2.3	e2.1	e3.1	21	37	21	13	7.0
19	7.1	e5.0	e5.0	e2.7	e2.3	e2.1	e3.2	24	40	21	13	6.8
20	7.0	e5.0	e4.5	e2.7	e2.3	e2.1	e3.3	32	50	20	13	6.7
21	6.8	e5.0	e4.0	e2.7	e2.3	e2.4	e3.4	37	58	20	13	6.6
22	6.8	e5.0	e4.0	e2.7	e2.1	e2.5	e3.6	35	65	20	13	6.7
23	e6.6	e5.0	e4.0	e2.7	e2.1	e2.6	e3.8	31	67	22	12	7.0
24	e6.4	e5.0	e4.0	e2.7	e2.1	e2.6	4.5	29	62	22	11	6.7
25	e6.4	e5.0	e4.0	e2.7	e2.1	e2.6	4.3	31	61	23	15	6.4
26	e6.0	e5.4	e4.0	e2.6	e2.1	e2.6	4.0	36	65	23	12	6.4
27	e5.8	e6.0	e4.0	e2.5	e2.1	e2.6	e4.3	43	67	21	13	6.3
28	e5.4	e6.0	e4.0	e2.5	e2.1	e2.6	e4.8	54	66	23	11	6.2
29	e5.4	e6.0	e4.0	e2.5	---	e2.6	e4.8	57	66	23	11	6.3
30	e5.6	e6.0	e4.0	e2.5	---	e3.2	e5.0	58	70	23	11	6.2
31	e5.6	---	e4.0	e2.5	---	e3.2	---	61	---	22	11	---
TOTAL	223.0	155.0	158.3	92.2	64.1	71.4	107.0	719.1	1640	931	470	241.8
MEAN	7.19	5.17	5.11	2.97	2.29	2.30	3.57	23.2	54.7	30.0	15.2	8.06
MAX	9.3	6.0	6.4	4.0	2.5	3.2	5.0	61	93	67	23	11
MIN	5.4	4.6	4.0	2.5	2.1	2.0	3.1	5.2	37	20	11	6.2
AC-FT	442	307	314	183	127	142	212	1430	3250	1850	932	480

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1998, BY WATER YEAR (WY)

MEAN	5.87	4.04	3.06	2.36	1.99	2.09	4.36	26.7	71.5	30.1	12.3	8.01
MAX	9.66	5.62	5.11	2.97	2.58	2.73	6.45	44.0	124	74.6	20.8	13.0
(WY)	1985	1985	1998	1998	1997	1997	1971	1996	1997	1995	1995	1984
MIN	4.15	2.61	1.62	1.63	1.45	1.41	2.12	8.10	38.2	12.2	6.39	4.62
(WY)	1995	1995	1995	1987	1987	1987	1973	1995	1989	1994	1994	1994

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1969 - 1998	
ANNUAL TOTAL	7020.9		4872.9			
ANNUAL MEAN	19.2		13.4		14.4	
HIGHEST ANNUAL MEAN					19.2	1997
LOWEST ANNUAL MEAN					10.4	1994
HIGHEST DAILY MEAN	220	Jun 7	93	Jun 3	220	Jun 7 1997
LOWEST DAILY MEAN	e2.3	Feb 7	e2.0	Mar 9	1.2	Feb 26 1989
ANNUAL SEVEN-DAY MINIMUM	2.4	Feb 5	2.1	Mar 3	1.4	Feb 20 1989
INSTANTANEOUS PEAK FLOW			115	Jun 3	a291	Jun 8 1997
INSTANTANEOUS PEAK STAGE			1.76	Jun 3	b2.08	Jun 8 1997
ANNUAL RUNOFF (AC-FT)	13930		9670		10400	
10 PERCENT EXCEEDS	44		38		43	
50 PERCENT EXCEEDS	6.0		6.0		5.0	
90 PERCENT EXCEEDS	2.6		2.3		2.0	

e-Estimated.
a-From rating curve extended above 140 ft^3/s.
b-Maximum gage height 2.26 ft, Jun 4, 1997, backwater from debris.

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 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT							
21...	0955	6.2	77	8.0	1.0	10.1	7.1
NOV							
12...	0925	4.6	80	8.4	0.5	10.0	7.7
DEC							
10...	0945	6.4	43	8.1	0.0	10.7	9.8
JAN							
14...	1000	2.6	86	8.1	0.0	11.7	8.8
FEB							
10...	0940	2.3	97	8.2	0.0	10.0	10
MAR							
17...	1000	2.1	190	8.4	0.5	10.1	36
APR							
07...	1015	3.1	191	8.1	0.5	10.1	37
MAY							
06...	0930	9.2	180	8.1	1.7	10.2	38
JUN							
23...	1030	60	52	8.0	3.5	9.9	4.5
JUL							
16...	0940	23	61	8.2	5.0	9.4	4.8
AUG							
18...	1030	14	72	8.3	7.0	9.0	5.4
SEP							
01...	1000	11	78	8.2	6.5	8.9	5.9

DATE	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 DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT						
21...	<1	<0.001	0.086	<0.002	0.001	0.001
NOV						
12...	2	<0.001	0.100	0.003	0.001	0.001
DEC						
10...	1	<0.001	0.094	0.008	0.002	0.002
JAN						
14...	<1	0.001	0.100	0.002	0.001	<0.001
FEB						
10...	<1	<0.001	0.087	<0.002	0.001	0.001
MAR						
17...	<1	0.006	0.097	0.003	<0.001	<0.001
APR						
07...	<1	0.001	0.080	<0.002	<0.001	<0.001
MAY						
06...	2	<0.001	0.084	<0.002	0.002	<0.001
JUN						
23...	1	0.001	0.088	<0.002	0.001	<0.001
JUL						
16...	3	0.001	0.059	0.035	0.003	0.001
AUG						
18...	1	0.001	0.059	<0.002	0.002	<0.001
SEP						
01...	1	<0.001	--	--	--	0.001

09023750 FRASER RIVER BELOW BUCK CREEK AT WINTER PARK, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°53'35", long 105°45'52", 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 mi^2.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT							
21...	1130	9.3	99	8.1	4.0	9.6	6.9
NOV							
12...	1055	3.7	98	8.3	2.0	9.8	6.9
DEC							
10...	1050	4.4	113	7.9	0.5	10.4	9.2
JAN							
14...	1130	3.7	99	8.0	1.0	9.2	7.5
FEB							
10...	1030	3.3	113	8.2	1.0	10.0	8.7
MAR							
17...	1045	3.3	164	8.0	2.0	10.0	23
APR							
07...	1045	6.8	175	8.3	2.1	9.6	30
MAY							
06...	1045	7.1	133	7.6	3.3	10.1	17
JUN							
23...	1200	96	51	7.8	5.3	9.4	3.6
JUL							
16...	1030	41	61	8.0	6.5	9.2	4.4
AUG							
18...	1130	21	73	7.9	9.0	8.6	5.1
SEP							
01...	1120	19	79	8.1	8.1	9.0	5.3

DATE	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 DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT						
21...	<1	<0.001	0.035	<0.002	0.002	0.001
NOV						
12...	4	<0.001	0.055	0.004	0.002	0.002
DEC						
10...	5	0.001	0.061	0.003	0.001	0.002
JAN						
14...	<1	0.001	0.077	0.003	0.003	0.003
FEB						
10...	2	0.001	0.062	<0.002	0.001	0.001
MAR						
17...	1	0.002	0.100	0.010	0.001	0.001
APR						
07...	8	<0.001	0.071	<0.002	<0.001	0.003
MAY						
06...	1	0.001	0.081	<0.002	0.006	0.001
JUN						
23...	<1	0.001	0.120	<0.002	<0.001	0.001
JUL						
16...	4	0.003	0.067	<0.002	0.003	<0.001
AUG						
18...	2	<0.001	0.074	<0.002	0.002	0.001
SEP						
01...	2	0.001	0.076	<0.002	0.002	0.001

09024000 FRASER RIVER AT WINTER PARK, CO

LOCATION.--Lat 39°54'00", long 105°46'34", in SE¼ sec.4, T.2 S., R.75 W., Grand County, Hydrologic Unit 14010001, on left bank 500 ft downstream from bridge on U.S. Highway 40, 1.4 mi south of Winter Park, 2.0 mi upstream from Vasquez Creek, 3.5 mi downstream from point of diversion for Moffat water tunnel, and 3.9 mi southeast of Fraser.

DRAINAGE AREA.--27.6 mi^2.

PERIOD OF RECORD.--September 1910 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "near Arrow" 1910-23 and as "near West Portal" 1924-39 and as "near Winter Park" 1990-1992. Records since June 9, 1936, equivalent to earlier records if transmountain diversions are added to flow past station.

REVISED RECORDS.--WSP 929: Drainage area. WDR CO-89-2: 1988 (M).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,906.23 ft above sea level, Colorado State Highway Datum (levels by U.S. Geological Survey). Sept. 23, 1910 to May 12, 1916, nonrecording gage at trail bridge 0.6 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station through Berthoud Pass ditch (see elsewhere in this report) and to Moffat water tunnel (not known 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	5.6	e4.7	e5.0	e4.5	e3.7	e6.0	11	174	104	46	21
2	9.2	6.3	e4.7	e5.0	e4.5	e3.8	e6.0	12	185	96	40	20
3	10	e6.3	e4.7	e5.0	e4.5	e3.8	e6.0	13	193	86	37	19
4	24	6.3	e4.7	e5.0	e4.5	e3.8	e6.0	13	193	76	37	18
5	27	e6.2	e4.7	e5.0	e4.5	e3.8	e6.0	12	166	68	37	18
6	19	6.2	e4.7	e5.0	e4.5	e3.8	e6.0	13	135	67	33	18
7	20	6.2	e4.7	e5.0	e4.5	e3.8	e6.0	25	120	64	31	17
8	20	5.9	e4.7	e5.0	e4.5	e3.8	e6.0	43	112	61	30	17
9	23	5.2	e4.7	e5.0	e4.5	e3.8	e6.0	39	103	63	33	17
10	29	e5.2	e4.7	e5.0	e4.5	e3.8	e6.0	40	102	70	31	17
11	29	e5.2	e5.0	e5.0	e4.5	e3.8	e6.6	45	88	74	30	16
12	27	e5.3	e5.0	e5.0	e4.5	e3.8	e7.0	44	71	58	29	19
13	21	5.4	e5.0	e5.0	e4.5	e3.8	e7.0	51	90	54	28	18
14	20	e5.4	e5.0	e5.0	e4.5	e3.8	6.4	54	78	52	28	17
15	16	e5.4	e5.0	e5.0	e4.5	e3.8	6.2	49	70	50	27	16
16	10	e5.0	e5.0	e5.0	e4.5	e3.8	6.1	50	67	47	26	16
17	12	e5.0	e5.0	e5.0	e4.5	e3.8	5.9	58	70	44	27	15
18	8.5	e5.0	e5.0	e5.0	e4.5	e3.8	5.9	64	66	41	26	15
19	8.1	e5.0	e5.0	e5.0	e4.5	e3.8	6.1	74	67	39	24	15
20	8.7	e5.0	e5.0	e5.0	e4.5	e3.8	6.3	90	87	38	23	14
21	6.2	e5.0	e5.0	e5.0	e4.5	e4.5	6.6	109	88	36	24	17
22	6.6	e5.0	e5.0	e5.0	e4.5	e5.0	7.4	106	95	35	24	28
23	5.7	e5.0	e5.0	e5.0	e4.5	e5.0	9.0	96	99	40	22	28
24	5.8	e5.0	e5.0	e4.7	e4.2	e5.0	10	86	96	40	21	20
25	e5.8	e5.0	e5.0	e4.7	e4.2	e5.0	10	89	94	39	26	18
26	e5.8	e5.0	e5.0	e4.7	e4.0	e5.0	9.1	101	101	41	23	15
27	e5.8	e5.0	e5.0	e4.7	e3.8	e5.0	8.5	112	105	38	23	12
28	5.8	e4.8	e5.0	e4.7	e3.8	e5.0	9.8	133	107	41	21	10
29	6.2	e4.8	e5.0	e4.7	---	e5.4	11	151	104	44	21	10
30	5.2	e4.7	e5.0	e4.5	---	e6.0	11	164	107	43	20	8.8
31	5.5	---	e5.0	e4.5	---	e6.0	---	168	---	43	20	---
TOTAL	415.0	160.4	152.0	152.2	123.5	132.8	215.9	2115	3233	1692	868	509.8
MEAN	13.4	5.35	4.90	4.91	4.41	4.28	7.20	68.2	108	54.6	28.0	17.0
MAX	29	6.3	5.0	5.0	4.5	6.0	11	168	193	104	46	28
MIN	5.2	4.7	4.7	4.5	3.8	3.7	5.9	11	66	35	20	8.8
AC-FT	823	318	301	302	245	263	428	4200	6410	3360	1720	1010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1998, BY WATER YEAR (WY)

MEAN	10.9	9.62	7.67	6.68	6.24	6.66	12.8	49.6	115	48.8	19.6	13.1
MAX	31.0	20.4	21.1	12.1	9.88	13.6	31.5	163	354	209	72.2	46.0
(WY)	1914	1928	1928	1928	1938	1918	1925	1928	1918	1957	1929	1925
MIN	2.93	2.72	2.83	2.92	3.11	3.58	5.05	7.42	5.76	4.92	3.37	2.57
(WY)	1957	1965	1965	1967	1933	1990	1970	1954	1954	1954	1954	1966

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1911 - 1998	
ANNUAL TOTAL	11476.0		9769.6			
ANNUAL MEAN	31.4		26.8		25.6	
HIGHEST ANNUAL MEAN					60.9	1914
LOWEST ANNUAL MEAN					5.93	1954
HIGHEST DAILY MEAN	286	Jun 20	a193	Jun 3	622	Jun 14 1918
LOWEST DAILY MEAN	e4.7	Nov 30	e3.7	Mar 1	c2.0	Mar 29 1912
ANNUAL SEVEN-DAY MINIMUM	b4.7	Nov 30	3.8	Feb 27	2.1	Oct 5 1956
INSTANTANEOUS PEAK FLOW			206	Jun 3	820	Jun 13 1918
INSTANTANEOUS PEAK STAGE			2.25	Jun 3	d2.90	Jun 13 1918
ANNUAL RUNOFF (AC-FT)	22760		19380		18550	
10 PERCENT EXCEEDS	64		86		59	
50 PERCENT EXCEEDS	8.2		7.0		8.9	
90 PERCENT EXCEEDS	5.0		4.5		4.2	

e-Estimated.
a-Also occurred Jun 4.
b-Also occurred Dec 1-10.
c-Also occurred Mar 30, Apr 9, 1912, and Jan 23, 1915.
d-Maximum gage height, 2.95 ft, Jun 9, 1997.

09025000 VASQUEZ CREEK AT WINTER PARK, CO

LOCATION.--Lat 39°55'13", long 105°47'05", in NE¼NW¼ sec.33. T.1 S., R.75 W., Grand County, Hydrologic Unit 14010001, on right bank 30 ft downstream from bridge on U.S. Highway 40, 0.2 mi upstream from mouth, 2.5 mi southeast of Fraser, and 4.5 mi downstream from Moffat water tunnel diversion.

DRAINAGE AREA.--27.8 mi^2.

PERIOD OF RECORD.--June to August 1907, July to November 1909, October 1933 to current year. Monthly discharge only for some periods, published in WSP 1313. Records for June to October 1908, published in WSP 269, are unreliable and should not be used. Published as Vasquez River at lower station, near Fraser 1907-09, as "near West Portal" 1934-39, and as "near Winter Park" 1940-87. Records for May 26, 1937 to September 1959, equivalent to earlier records if diversion to Moffat water tunnel is added to flow past station.

REVISED RECORDS.--See PERIOD OF RECORD.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 8,768.48 ft above sea level. June 1, 1907 to Oct. 31, 1909, nonrecording gage at site 0.8 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station to Moffat water tunnel not known since 1959. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	5.3	e5.8	e6.2	e6.6	e8.0	e8.4	10	130	47	9.8	8.4
2	5.5	4.8	e5.8	e6.2	e6.6	e8.0	e8.0	11	144	44	9.2	8.3
3	5.8	e4.9	e5.8	e6.2	e6.6	e8.0	e8.0	12	157	42	10	7.8
4	12	e5.0	e5.8	e6.2	e6.6	e8.0	e8.0	11	144	39	21	7.9
5	17	5.1	e5.8	e6.2	e6.6	e8.0	e8.0	9.2	116	26	9.1	8.0
6	17	5.2	e5.8	e6.2	e6.6	e8.0	e7.4	8.5	99	13	8.8	7.8
7	17	5.6	e5.8	e6.2	e6.6	e8.0	e7.4	13	94	18	8.8	7.8
8	18	5.9	e5.8	e6.2	e6.6	e8.0	e7.4	17	91	23	8.1	8.3
9	15	5.5	e5.8	e6.2	e7.4	e8.0	e7.4	18	88	26	10	10
10	7.6	e5.6	e5.8	e6.2	e7.4	e8.0	e7.4	22	86	37	8.2	9.9
11	7.4	e5.6	e6.2	e6.2	e7.4	e8.0	e7.4	27	87	70	8.7	9.5
12	7.4	e5.6	e6.2	e6.2	e7.4	e8.0	e7.4	25	79	47	8.6	9.1
13	6.2	5.6	e6.2	e6.2	e7.4	e8.0	e7.4	33	72	31	8.4	8.9
14	7.1	5.8	e6.2	e6.2	e7.4	e8.0	7.2	e38	64	9.8	8.5	8.6
15	5.9	e5.8	e6.2	e6.2	e7.4	e8.0	8.7	e29	61	9.5	8.2	8.5
16	5.5	e5.8	e6.2	e6.2	e7.4	e8.0	8.0	31	59	8.9	7.9	8.4
17	4.8	e5.8	e6.2	e6.2	e7.4	e8.0	7.8	41	62	9.6	7.7	8.1
18	4.6	e5.8	e6.2	e6.2	e7.4	e8.0	7.1	50	58	9.4	8.9	4.4
19	4.5	e5.8	e6.2	e6.2	e7.4	e8.0	7.3	55	53	9.5	16	4.1
20	4.5	e5.8	e6.2	e6.2	e7.4	e8.0	7.3	66	32	8.1	10	4.0
21	4.5	e5.8	e6.2	e6.2	e7.4	e8.0	7.5	75	13	9.6	8.6	6.8
22	4.4	e5.8	e6.2	e6.0	e7.4	e8.0	8.0	68	32	9.9	8.8	14
23	4.7	e5.8	e6.2	e6.2	e7.4	e8.0	8.8	58	58	11	8.6	14
24	4.4	e5.8	e6.2	e6.6	e7.4	e8.0	9.7	56	64	10	8.1	14
25	4.6	e5.8	e6.2	e6.6	e8.0	e8.0	9.9	60	59	9.5	8.0	14
26	e4.6	e5.8	e6.2	e6.6	e8.0	e8.0	9.4	70	62	9.3	8.0	13
27	e4.7	e5.8	e6.2	e6.6	e8.0	e8.6	9.1	80	46	8.3	8.8	13
28	e4.8	e5.8	e6.2	e6.6	e8.0	e8.6	9.4	97	54	9.9	8.2	12
29	4.9	e5.8	e6.2	e6.6	---	e8.6	9.9	110	37	9.2	8.1	13
30	4.8	e5.8	e6.2	e6.6	---	e8.6	10	119	35	9.3	8.1	8.6
31	4.7	---	e6.2	e6.6	---	e8.6	---	118	---	9.2	8.3	---
TOTAL	229.4	168.3	188.2	195.2	203.2	251.0	244.7	1437.7	2236	633.0	287.5	280.2
MEAN	7.40	5.61	6.07	6.30	7.26	8.10	8.16	46.4	74.5	20.4	9.27	9.34
MAX	18	5.9	6.2	6.6	8.0	8.6	10	119	157	70	21	14
MIN	4.4	4.8	5.8	6.0	6.6	8.0	7.1	8.5	13	8.1	7.7	4.0
AC-FT	455	334	373	387	403	498	485	2850	4440	1260	570	556

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1998, BY WATER YEAR (WY)

MEAN	6.11	6.75	5.55	4.83	4.47	4.61	7.57	27.5	67.9	23.3	7.93	6.80
MAX	35.1	21.9	13.4	10.0	9.99	9.14	19.8	119	234	177	41.2	27.0
(WY)	1962	1962	1962	1958	1958	1995	1943	1958	1942	1983	1936	1995
MIN	.66	1.84	1.30	1.28	.80	1.02	2.41	2.81	.14	.34	.39	.20
(WY)	1965	1963	1965	1965	1960	1965	1965	1954	1940	1956	1960	1944

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1934 - 1998	
ANNUAL TOTAL	9836.1		6354.4			
ANNUAL MEAN	26.9		17.4			
HIGHEST ANNUAL MEAN					39.6	1936
LOWEST ANNUAL MEAN					2.30	1963
HIGHEST DAILY MEAN	293	Jun 20	157	Jun 3	417	Jun 25 1983
LOWEST DAILY MEAN	a4.4	Oct 22	4.0	Sep 20	b.00	Sep 9 1944
ANNUAL SEVEN-DAY MINIMUM	4.5	Oct 18	4.5	Oct 18	.00	Sep 9 1944
INSTANTANEOUS PEAK FLOW			196	Jun 3	c526	Jun 27 1983
INSTANTANEOUS PEAK STAGE			2.82	Jun 3	4.14	Jun 27 1983
ANNUAL RUNOFF (AC-FT)	19510		12600			
10 PERCENT EXCEEDS	41		54		22	
50 PERCENT EXCEEDS	8.2		8.0		5.8	
90 PERCENT EXCEEDS	5.6		5.8		1.5	

e-Estimated.
a-Also occurred Oct 24.
b-Also no flow at times in 1946, 1956, 1960, and 1966.
c-From rating curve extended above 286 ft^3/s.

09025010 FRASER RIVER BELOW VASQUEZ CREEK AT WINTER PARK, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°55'37", long 105°47'08", NE¼SW¼ 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 mi^2.

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

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT							
21...	1320	9.9	74	8.0	5.5	9.2	4.6
NOV							
12...	1240	8.9	74	8.1	0.4	10.5	4.2
DEC							
10...	1130	14	77	8.0	0.1	10.5	5.6
JAN							
14...	1330	12	74	8.1	0.0	8.2	3.8
FEB							
10...	1210	13	87	8.1	0.0	10.3	4.5
MAR							
17...	1145	14	110	7.7	0.5	10.3	9.5
APR							
07...	1220	20	131	7.8	1.0	9.9	16
MAY							
06...	1135	21	100	8.3	4.1	9.5	9.8
JUN							
23...	1400	147	46	7.8	8.2	8.9	2.5
JUL							
16...	1130	50	59	8.0	9.3	8.3	3.6
AUG							
18...	1245	36	69	8.2	11.4	7.7	3.9
SEP							
01...	1300	27	75	8.0	10.0	8.2	4.0

DATE	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 DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT						
21...	<1	0.003	0.144	<0.002	0.005	0.003
NOV						
12...	2	0.001	0.145	0.032	0.005	0.004
DEC						
10...	2	0.004	0.173	0.213	0.017	0.015
JAN						
14...	<1	0.002	0.201	0.335	0.038	0.032
FEB						
10...	1	0.003	0.184	0.319	0.042	0.037
MAR						
17...	3	0.003	0.230	0.479	0.055	0.048
APR						
07...	20	0.004	0.164	0.492	0.051	0.047
MAY						
06...	2	0.004	0.146	0.039	--	--
JUN						
23...	4	0.001	0.088	<0.002	0.002	0.009
JUL						
16...	4	0.003	0.078	<0.002	0.008	0.004
AUG						
18...	4	0.004	0.115	<0.002	0.009	0.006
SEP						
01...	8	<0.001	0.087	<0.002	0.008	0.004

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 Vasquez ditch, 1,100 ft upstream from aqueduct, and 4.0 mi south of Fraser.

DRAINAGE AREA.--1.67 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	e.00	e.00	e.00	e.00	e.00	e.02	.02	8.4	7.9	2.0	1.0
2	.24	e.00	e.00	e.00	e.00	e.00	e.02	.02	9.5	7.1	1.8	.98
3	.49	e.00	e.00	e.00	e.00	e.00	e.02	.02	11	6.7	1.7	.97
4	.79	e.00	e.00	e.00	e.00	e.00	e.02	.03	9.7	7.1	1.8	.93
5	.76	e.00	e.00	e.00	e.00	e.00	e.02	.02	8.1	5.4	1.7	.93
6	.75	e.00	e.00	e.00	e.00	e.00	e.02	.02	7.1	2.7	1.5	.93
7	.73	e.00	e.00	e.00	e.00	e.00	e.01	.02	6.6	2.7	1.5	.91
8	.78	e.00	e.00	e.00	e.00	e.00	e.01	1.3	6.4	2.6	1.4	.92
9	.79	e.00	e.00	e.00	e.00	e.00	e.01	1.4	6.1	2.7	1.8	.91
10	.82	e.00	e.00	e.00	e.00	e.00	e.02	1.7	6.1	3.7	1.6	.89
11	.85	e.00	e.00	e.00	e.00	e.00	e.03	1.9	5.9	4.5	1.4	.86
12	2.0	e.00	e.00	e.00	e.00	e.00	e.03	1.9	5.9	3.6	1.4	1.0
13	3.6	e.00	e.00	e.00	e.00	e.00	e.03	2.5	6.0	3.3	1.3	.95
14	2.0	e.00	e.00	e.00	e.00	e.00	e.03	2.8	5.7	3.0	1.3	.90
15	.06	e.00	e.00	e.00	e.00	e.00	e.03	2.7	5.5	2.9	1.2	.86
16	.02	e.00	e.00	e.00	e.00	e.00	e.03	2.7	5.5	2.7	1.2	.86
17	.01	e.00	e.00	e.00	e.00	e.00	e.02	3.3	5.6	2.5	1.2	.86
18	.00	e.00	e.00	e.00	e.00	e.00	.02	3.9	5.4	2.4	1.2	.84
19	.00	e.00	e.00	e.00	e.00	e.00	.02	4.5	5.5	2.3	1.2	.84
20	e.00	e.00	e.00	e.00	e.00	e.00	.02	5.0	5.2	2.2	1.2	.83
21	e.00	e.00	e.00	e.00	e.00	e.00	.02	5.4	2.7	2.2	1.2	.82
22	e.00	e.00	e.00	e.00	e.00	e.00	.02	5.2	5.7	2.2	1.2	.81
23	e.00	e.00	e.00	e.00	e.00	e.01	.03	4.8	8.5	2.4	1.1	.84
24	e.00	e.00	e.00	e.00	e.00	e.02	.03	4.4	8.4	2.3	1.1	.86
25	e.00	e.00	e.00	e.00	e.00	e.02	.02	4.4	8.9	2.4	1.0	.85
26	e.00	e.00	e.00	e.00	e.00	e.02	.02	4.8	9.7	2.2	1.0	.85
27	e.00	e.00	e.00	e.00	e.00	e.02	.02	5.1	8.7	2.0	1.1	.84
28	e.00	e.00	e.00	e.00	e.00	e.02	.02	5.3	8.8	2.2	1.0	.84
29	e.00	e.00	e.00	e.00	---	e.02	.02	5.9	8.6	2.2	1.0	.90
30	e.00	e.00	e.00	e.00	---	e.01	.02	6.2	8.4	2.0	.99	.87
31	e.00	---	e.00	e.00	---	e.01	---	6.4	---	1.9	.99	---
TOTAL	14.93	0.00	0.00	0.00	0.00	0.15	0.65	93.65	213.6	102.0	41.08	26.65
MEAN	.48	.000	.000	.000	.000	.005	.022	3.02	7.12	3.29	1.33	.89
MAX	3.6	.00	.00	.00	.00	.02	.03	6.4	11	7.9	2.0	1.0
MIN	.00	.00	.00	.00	.00	.00	.01	.02	2.7	1.9	.99	.81
AC-FT	30	.00	.00	.00	.00	.3	1.3	186	424	202	81	53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 1998, BY WATER YEAR (WY)

MEAN	.62	.34	.34	.32	.23	.21	.26	1.60	11.7	3.28	1.41	.90
MAX	.77	.68	.67	.64	.47	.41	.50	3.02	16.3	3.29	1.50	.91
(WY)	1997	1997	1997	1997	1997	1997	1997	1998	1997	1998	1997	1997
MIN	.48	.000	.000	.000	.000	.005	.022	.17	7.12	3.28	1.33	.89
(WY)	1998	1998	1998	1998	1998	1998	1998	1997	1998	1997	1998	1998

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1997 - 1998	
ANNUAL TOTAL	743.99		492.71			
ANNUAL MEAN	2.04		1.35		1.76	
HIGHEST ANNUAL MEAN					2.18	1997
LOWEST ANNUAL MEAN					1.35	1998
HIGHEST DAILY MEAN	a20	Jun 10	11	Jun 3	a20	Jun 10 1997
LOWEST DAILY MEAN	b.00	May 7	b.00	Oct 18	c.00	May 7 1997
ANNUAL SEVEN-DAY MINIMUM	.00	May 7	.00	Oct 18	.00	May 7 1997
INSTANTANEOUS PEAK FLOW			20	Jun 26	22	Jun 10 1997
INSTANTANEOUS PEAK STAGE			5.66	Jun 26	5.69	Jun 10 1997
ANNUAL RUNOFF (AC-FT)	1480		977		1280	
10 PERCENT EXCEEDS	2.9		5.4		5.2	
50 PERCENT EXCEEDS	.52		.02		.67	
90 PERCENT EXCEEDS	.00		.00		.00	

e-Estimated.
a-Also occurred Jun 11-16, and 18-19, 1997.
b-No flow many days. Some values estimated.
c-No flow many days each year.

09026500 ST. LOUIS CREEK NEAR FRASER, CO

LOCATION.--Lat 39°54'36", long 105°52'40", in SE¼SW¼ sec.34, T.1 S., R.76 W., Grand County, Hydrologic Unit 14010001, on left bank 300 ft downstream from West St. Louis Creek, and 4.1 mi southwest of Fraser.

DRAINAGE AREA.--32.9 mi^2.

PERIOD OF RECORD.--October 1933 to current year. Prior to August 1934, monthly discharge only, published in WSP 1313. Records for May 1956 to September 1959, equivalent to earlier records if diversion to Moffat water tunnel is added to flow past station.

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 8,980.17 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station to Moffat water tunnel not known since 1959. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	8.0	5.7	e4.8	e4.5	e4.6	e4.5	8.6	111	56	17	15
2	8.6	7.7	5.7	e4.7	e4.5	e4.8	e4.5	9.0	128	50	15	15
3	8.8	12	5.7	e4.7	e4.5	e4.7	e4.5	10	147	43	15	14
4	13	8.0	5.2	e4.7	e4.5	e4.6	e4.6	12	138	33	15	13
5	20	7.6	5.4	e4.7	e4.5	e4.5	e4.7	15	107	24	15	13
6	20	8.3	5.4	e4.7	e4.5	e4.5	e4.6	13	94	24	15	13
7	20	8.1	5.3	e4.7	e4.5	e4.5	e4.5	11	87	36	14	12
8	21	7.7	5.2	e4.2	e4.5	e4.5	e4.4	14	84	50	15	12
9	21	6.7	5.2	e4.7	e4.5	e4.5	e4.3	19	80	51	15	13
10	21	7.5	5.2	e4.7	e4.5	e4.6	e4.4	24	80	78	16	12
11	22	6.7	5.2	e4.7	e4.5	e4.6	e4.4	29	80	102	14	12
12	21	6.7	5.2	e4.7	e4.5	e4.6	e4.4	27	82	93	14	13
13	20	6.6	5.3	e4.7	e4.5	e4.6	e4.4	34	88	54	14	14
14	15	11	5.4	e4.7	e4.5	e4.6	e4.4	39	82	16	14	13
15	13	15	5.4	e4.7	e4.5	e4.6	e4.3	32	67	18	14	12
16	12	8.7	5.4	e4.6	e4.5	e4.6	e4.4	31	50	18	14	11
17	7.5	10	5.3	e4.5	e4.5	e4.6	e4.5	37	51	16	17	11
18	7.2	11	5.2	e4.5	4.7	e4.7	4.7	44	49	15	20	10
19	6.8	8.8	5.2	e4.5	4.6	e4.8	4.7	51	45	15	29	11
20	6.8	7.2	5.2	e4.5	e4.5	e4.8	4.6	56	32	17	16	10
21	6.6	6.4	5.2	e4.5	e4.5	e4.8	4.7	62	24	16	15	11
22	6.8	6.1	5.2	e4.5	e4.5	e4.8	5.5	60	35	15	15	15
23	6.8	6.0	5.2	e4.5	e4.5	e5.0	7.0	54	67	22	14	15
24	7.4	5.8	5.3	e4.5	e4.5	e5.2	8.7	53	70	21	13	16
25	9.7	5.7	5.4	e4.5	4.4	e5.2	7.6	54	70	16	12	16
26	7.6	5.7	5.4	e4.5	e4.5	e5.4	6.7	63	70	16	12	15
27	9.6	5.9	e5.2	e4.5	e4.5	e5.2	6.7	73	62	14	13	15
28	8.6	6.2	e5.2	e4.5	e4.5	e5.0	6.9	83	70	17	13	15
29	8.9	5.8	e5.0	e4.5	---	e5.0	7.6	93	69	13	14	16
30	6.8	5.9	e4.8	e4.5	---	e4.7	8.3	101	57	14	13	16
31	6.5	---	e4.8	e4.5	---	e4.4	---	102	---	15	14	---
TOTAL	378.7	232.8	163.5	142.2	126.2	147.0	159.5	1313.6	2276	988	466	399
MEAN	12.2	7.76	5.27	4.59	4.51	4.74	5.32	42.4	75.9	31.9	15.0	13.3
MAX	22	15	5.7	4.8	4.7	5.4	8.7	102	147	102	29	16
MIN	6.5	5.7	4.8	4.2	4.4	4.4	4.3	8.6	24	13	12	10
AC-FT	751	462	324	282	250	292	316	2610	4510	1960	924	791

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1998, BY WATER YEAR (WY)

MEAN	11.9	9.37	7.61	6.81	6.27	6.37	9.42	37.9	118	66.8	24.1	14.6
MAX	31.4	19.7	14.3	12.0	11.0	12.0	26.2	102	263	250	70.1	34.1
(WY)	1962	1996	1946	1946	1946	1946	1960	1936	1997	1995	1945	1938
MIN	2.63	2.90	2.28	2.00	2.07	2.35	3.41	8.62	21.6	16.2	11.3	4.39
(WY)	1965	1967	1968	1961	1968	1968	1970	1968	1989	1994	1963	1963

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1934 - 1998	
ANNUAL TOTAL	12581.5		6792.5			
ANNUAL MEAN	34.5		18.6		26.6	
HIGHEST ANNUAL MEAN					48.9	1995
LOWEST ANNUAL MEAN					9.98	1963
HIGHEST DAILY MEAN	408	Jun 22	147	Jun 3	418	Jun 18 1995
LOWEST DAILY MEAN	e4.1	Apr 16	e4.2	Jan 8	a1.8	Jan 25 1968
ANNUAL SEVEN-DAY MINIMUM	4.2	Apr 11	4.4	Apr 9	1.8	Jan 24 1968
INSTANTANEOUS PEAK FLOW			198	Jun 3	558	Jun 17 1995
INSTANTANEOUS PEAK STAGE			2.14	Jun 3	b2.80	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	24960		13470		19280	
10 PERCENT EXCEEDS	64		55		63	
50 PERCENT EXCEEDS	8.7		8.3		10	
90 PERCENT EXCEEDS	5.3		4.5		4.7	

e-Estimated
a-Also occurred Jan 26-30, Feb 1-2, and Feb 14, 1968.
b-Maximum gage height, 3.21 ft, Jun 10, 1952, backwater from log on control.

09027100 FRASER RIVER AT TABERNASH, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°59'25", long 105°49'44", SE¼NW¼ 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.--116 mi^2.

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 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT							
21...	1500	19	91	9.1	10.0	9.1	4.4
NOV							
12...	1345	19	91	8.5	0.6	11.1	3.8
DEC							
10...	1315	12	102	8.2	0.0	10.1	4.2
JAN							
14...	1540	24	90	8.2	0.0	10.6	3.9
FEB							
10...	1315	11	108	7.8	0.0	9.8	4.3
MAR							
17...	1330	19	136	--	0.0	10.0	11
APR							
07...	1345	44	128	8.2	1.3	10.1	11
MAY							
06...	1315	41	96	9.1	10.4	9.5	7.2
JUN							
23...	1515	203	52	8.5	12.1	9.0	2.2
JUL							
16...	1300	56	73	8.5	16.7	7.7	3.1
AUG							
18...	1400	50	83	9.4	16.0	8.4	3.7
SEP							
01...	1400	40	82	9.5	13.6	9.0	3.5

DATE	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 DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT						
21...	<1	0.006	0.145	0.013	0.048	0.039
NOV						
12...	3	0.005	0.235	0.029	0.044	0.038
DEC						
10...	3	0.009	0.461	0.141	0.062	0.055
JAN						
14...	<1	0.006	0.555	0.382	0.108	0.100
FEB						
10...	2	0.007	0.651	0.458	0.139	0.130
MAR						
17...	3	0.008	0.693	0.819	0.179	0.180
APR						
07...	7	0.009	0.492	0.617	0.143	0.130
MAY						
06...	3	0.009	0.201	0.037	0.068	0.054
JUN						
23...	8	0.002	0.039	<0.002	0.012	0.010
JUL						
16...	8	0.004	0.032	0.018	0.041	0.031
AUG						
18...	2	0.007	0.059	0.004	0.059	0.051
SEP						
01...	4	0.003	0.019	<0.002	0.040	0.029

09032000 RANCH CREEK NEAR FRASER, CO

LOCATION.--Lat 39°57'00", long 105°45'54", in NW¼NE¼ sec.22, T.1 S., R.75 W., Grand County, Hydrologic Unit 14010001, on left bank 650 ft downstream from Middle Fork, and 2.7 mi east of Fraser.

DRAINAGE AREA.--19.9 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1934 to current year. Records for May 26, 1937, to September 1959, equivalent to earlier records if diversion to Moffat water tunnel is added to flow past station.

REVISED RECORDS.--WSP 1243: 1935.

GAGE.--Water-stage recorder. Elevation of gage is 8,660 ft above sea level, from topographic map. Prior to Oct. 5, 1995, at site 200 ft upstream, at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversion upstream from station for irrigation of hay meadows along Fraser River. Transmountain diversion upstream from station to Moffat water tunnel not known since 1959. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	3.2	e3.0	e2.8	e2.6	e2.4	e3.0	6.3	147	11	4.8	4.0
2	1.5	e3.2	e3.0	e2.8	e2.6	e2.4	e3.0	6.7	161	8.3	4.8	3.8
3	1.6	e3.2	e3.0	e2.8	e2.6	e2.4	e3.0	7.4	173	6.3	4.6	3.7
4	3.5	e3.2	e3.0	e2.8	e2.6	e2.4	e3.2	8.0	154	5.3	4.9	3.5
5	7.6	e3.2	e3.0	e2.8	e2.6	e2.4	e3.2	8.2	119	5.2	4.7	3.4
6	7.5	2.2	e3.0	e2.8	e2.6	e2.4	e3.2	7.4	98	5.2	4.5	3.3
7	7.5	2.4	e3.0	e2.8	e2.6	e2.4	e3.2	8.5	88	4.9	4.8	3.3
8	8.5	3.1	e3.0	e2.8	e2.6	e2.4	e3.2	12	82	4.6	4.7	3.3
9	8.5	3.1	e3.0	e2.8	e2.6	e2.4	e3.2	13	78	5.1	5.0	3.3
10	8.9	e3.2	e3.0	e2.8	e2.6	e2.4	e3.2	16	77	5.8	5.1	3.3
11	8.8	e3.2	e3.0	e2.8	e2.6	e2.4	e3.2	18	63	6.2	5.1	3.2
12	8.7	e3.2	e3.0	e2.8	e2.6	e2.4	e3.2	17	49	5.3	5.0	3.7
13	8.0	e3.3	e3.0	e2.8	e2.6	e2.4	e3.2	21	46	5.1	4.9	4.2
14	3.2	e3.3	e3.0	e2.8	e2.6	e2.4	e3.2	23	52	4.9	5.0	3.7
15	2.8	e3.3	e3.0	e2.8	e2.6	e2.4	e3.2	21	35	4.8	5.0	3.4
16	2.7	e3.3	e3.0	e2.8	e2.4	e2.4	e3.1	21	7.3	4.8	5.0	3.3
17	2.8	e3.3	e3.0	e2.8	e2.4	e2.4	e3.1	26	8.3	4.7	5.1	3.2
18	3.1	e3.3	e3.0	e2.8	e2.4	e2.4	e3.1	28	8.1	4.6	5.2	3.2
19	3.1	e3.3	e3.0	e2.8	e2.4	e2.4	e3.1	32	7.4	4.5	5.2	3.1
20	3.2	e3.3	e3.0	e2.8	e2.4	e2.4	e3.1	40	7.2	4.5	5.0	3.1
21	3.4	e3.0	e3.0	e2.8	e2.4	e2.4	e3.1	54	7.2	5.4	5.3	3.1
22	3.3	e3.0	e3.0	e2.8	e2.4	e2.4	e3.1	59	8.2	5.1	6.0	6.6
23	3.3	e3.0	e3.0	e2.8	e2.4	e2.4	e3.1	54	31	6.3	5.2	7.4
24	3.3	e3.0	e3.0	e2.8	e2.4	e2.4	5.1	51	78	5.1	5.0	7.4
25	e3.3	e3.0	e3.0	e2.8	e2.4	e2.4	5.4	56	79	5.7	4.8	6.7
26	e3.3	e3.0	e3.0	e2.8	e2.4	e2.7	4.7	64	52	4.7	4.7	5.6
27	e3.3	e3.0	e3.0	e2.8	e2.4	e2.7	4.5	73	62	5.0	5.0	3.3
28	e3.3	e3.0	e3.0	e2.8	e2.4	e2.7	5.0	92	60	5.5	4.5	3.1
29	e3.3	e3.0	e3.0	e2.8	---	e2.7	5.7	107	34	5.7	4.2	3.2
30	e3.3	e3.0	e3.0	e2.8	---	e2.7	6.2	123	13	5.5	4.0	3.4
31	3.3	---	e3.0	e2.8	---	e3.0	---	132	---	4.7	4.0	---
TOTAL	139.5	92.8	93.0	86.8	70.2	76.5	108.8	1205.5	1884.7	169.8	151.1	118.8
MEAN	4.50	3.09	3.00	2.80	2.51	2.47	3.63	38.9	62.8	5.48	4.87	3.96
MAX	8.9	3.3	3.0	2.8	2.6	3.0	6.2	132	173	11	6.0	7.4
MIN	1.5	2.2	3.0	2.8	2.4	2.4	3.0	6.3	7.2	4.5	4.0	3.1
AC-FT	277	184	184	172	139	152	216	2390	3740	337	300	236

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1998, BY WATER YEAR (WY)

MEAN	4.80	4.21	3.43	3.02	2.69	2.61	5.27	31.0	77.9	25.8	7.49	4.99
MAX	19.6	14.6	8.11	5.63	4.65	5.34	17.4	99.4	206	136	27.3	13.8
(WY)	1962	1962	1962	1962	1966	1950	1946	1936	1997	1995	1945	1945
MIN	.98	1.09	.87	.89	.74	.65	1.61	3.69	2.68	2.40	1.52	.98
(WY)	1969	1965	1965	1964	1964	1964	1961	1954	1966	1966	1960	1960

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1935 - 1998	
ANNUAL TOTAL	8962.3		4197.5			
ANNUAL MEAN	24.6		11.5			
HIGHEST ANNUAL MEAN					31.4	1983
LOWEST ANNUAL MEAN					2.55	1964
HIGHEST DAILY MEAN	402	Jun 7	173	Jun 3	402	Jun 7 1997
LOWEST DAILY MEAN	1.5	Oct 2	1.5	Oct 2	a.40	Sep 21 1960
ANNUAL SEVEN-DAY MINIMUM	1.6	Sep 27	2.4	Feb 16	.42	Sep 21 1988
INSTANTANEOUS PEAK FLOW			211	Jun 3	548	Jun 4 1997
INSTANTANEOUS PEAK STAGE			5.89	Jun 3	6.71	Jun 4 1997
ANNUAL RUNOFF (AC-FT)	17780		8330			
10 PERCENT EXCEEDS	69		27		31	
50 PERCENT EXCEEDS	3.2		3.2		4.1	
90 PERCENT EXCEEDS	2.0		2.4		1.8	

e-Estimated.
a-Also occurred Oct 6, 1960, and Sep 24-26, 1988.

09032000 RANCH CREEK NEAR FRASER, CO--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT							
22...	1445	3.6	47	8.0	2.5	10.8	K1
NOV							
13...	0845	3.4	51	8.1	0.8	11.7	<1
DEC							
11...	1125	3.0	53	8.4	0.0	11.7	<1
JAN							
15...	1445	2.8	55	8.2	0.0	9.9	K1
FEB							
11...	1405	2.7	56	7.8	1.0	10.4	<1
MAR							
17...	1515	2.4	58	--	0.5	10.5	K1
APR							
08...	1300	3.2	59	7.7	1.0	10.5	<1
MAY							
07...	1300	7.3	51	8.2	3.0	9.7	K1
JUN							
24...	1445	71	29	8.0	7.0	8.9	K1
JUL							
17...	1330	4.6	42	8.0	12.5	7.6	K1
AUG							
19...	1430	5.7	47	8.1	10.5	8.0	--
SEP							
02...	1445	3.5	51	8.0	10.4	8.0	K1

DATE	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 DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT							
22...	0.4	<1	<0.001	0.033	<0.002	0.004	0.003
NOV							
13...	0.3	<1	0.001	0.065	0.004	0.003	0.003
DEC							
11...	0.3	2	<0.001	0.069	0.002	0.005	0.005
JAN							
15...	1.5	<1	0.001	0.070	0.002	0.006	0.004
FEB							
11...	0.2	1	0.003	0.057	<0.002	0.005	0.004
MAR							
17...	0.2	<1	0.003	0.057	<0.002	0.004	0.004
APR							
08...	0.3	<1	<0.001	0.036	<0.002	0.004	0.002
MAY							
07...	0.3	2	0.002	0.029	<0.002	0.008	<0.001
JUN							
24...	<0.1	<1	<0.001	0.044	0.151	--	--
JUL							
17...	0.2	4	0.004	0.013	<0.002	0.002	<0.001
AUG							
19...	0.4	1	0.001	0.012	<0.002	0.003	0.001
SEP							
02...	0.2	1	<0.001	0.007	<0.002	0.003	0.001

K-Based on non-ideal colony count.

09032100 CABIN CREEK NEAR FRASER, CO

LOCATION.--Lat 39°59'09", long 105°44'40", in NW¼SE¼ sec.2, T.1 S., R.75 W., Grand County, Hydrologic Unit 14010001, on right 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 mi^2.

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 diversion 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	e1.9	e2.0	e1.5	e1.3	e1.1	e1.5	4.1	43	9.5	11	3.9
2	1.3	e1.9	e2.0	e1.5	e1.2	e1.1	e1.5	4.5	48	8.8	9.7	3.8
3	.99	e1.9	e2.0	e1.5	e1.2	e1.1	e1.5	5.9	49	8.9	9.0	3.7
4	2.7	e1.9	e2.0	e1.5	e1.2	e1.1	e1.5	e7.0	43	9.3	12	3.5
5	3.8	e1.4	e2.0	e1.5	e1.2	e1.1	e1.5	8.2	35	9.5	11	3.5
6	3.6	e1.5	e2.0	e1.5	e1.2	e1.1	e1.5	7.4	27	9.7	9.0	3.4
7	3.5	e1.6	e2.0	e1.5	e1.2	e1.1	e1.5	6.8	24	8.8	8.5	3.2
8	3.8	e1.8	e2.0	e1.5	e1.2	e1.1	e1.5	5.7	22	9.5	8.2	3.1
9	3.7	e1.9	e2.0	e1.4	e1.2	e1.1	e1.5	6.5	21	11	8.5	3.1
10	3.6	e1.9	e2.0	e1.3	e1.2	e1.1	e1.5	9.2	21	11	8.2	3.1
11	3.4	e1.9	e2.0	e1.3	e1.2	e1.1	e1.5	11	15	10	7.9	3.0
12	4.0	e2.0	e2.0	e1.3	e1.2	e1.1	e1.5	10	11	9.8	7.4	3.7
13	4.9	e2.0	e2.0	e1.3	e1.2	e1.1	e1.5	13	6.8	9.4	7.2	3.7
14	5.0	e2.0	e2.0	e1.3	e1.2	e1.1	e1.5	15	10	8.9	7.0	3.3
15	3.4	e2.0	e2.0	e1.3	e1.2	e1.1	e1.5	13	10	8.9	6.6	3.1
16	1.4	e2.0	e2.0	e1.3	e1.1	e1.1	1.7	12	9.6	9.2	6.2	2.9
17	1.6	e2.0	e2.0	e1.3	e1.1	e1.1	1.8	16	10	9.1	6.0	2.8
18	1.5	e2.0	e2.0	e1.3	e1.1	e1.1	e1.8	17	9.3	9.0	5.8	2.7
19	1.4	e2.0	e2.0	e1.3	e1.1	e1.1	e1.9	20	10	8.9	5.5	2.6
20	1.8	e2.0	e2.0	e1.3	e1.1	e1.1	e1.9	27	12	8.8	5.1	2.6
21	2.1	e2.0	e2.0	e1.3	e1.1	e1.1	e2.0	35	10	8.6	5.2	2.6
22	1.9	e2.0	e2.0	e1.3	e1.1	e1.1	e2.2	33	11	8.5	5.2	2.6
23	1.9	e2.0	e2.0	e1.3	e1.1	e1.1	2.2	25	12	8.9	4.7	2.7
24	e1.9	e2.0	e2.0	e1.3	e1.1	e1.1	3.3	22	11	8.5	4.4	2.6
25	e1.9	e2.0	e2.0	e1.3	e1.1	e1.1	3.3	26	11	11	4.3	2.3
26	e1.9	e2.0	e2.0	e1.3	e1.1	e1.3	2.7	28	14	10	4.2	2.2
27	e1.9	e2.0	e2.0	e1.3	e1.1	e1.3	e3.0	30	16	8.4	4.5	2.0
28	e1.9	e2.0	e2.0	e1.3	e1.1	e1.3	2.8	32	14	12	4.2	2.1
29	e1.9	e2.0	e2.0	e1.3	---	e1.3	e4.2	33	10	13	4.0	2.3
30	e1.9	e2.0	e1.7	e1.3	---	e1.3	e4.0	37	9.7	11	3.9	2.3
31	e1.9	---	e1.5	e1.3	---	e1.5	---	38	---	10	3.9	---
TOTAL	79.29	57.6	61.2	42.0	32.4	35.5	61.3	558.3	555.4	297.9	208.3	88.4
MEAN	2.56	1.92	1.97	1.35	1.16	1.15	2.04	18.0	18.5	9.61	6.72	2.95
MAX	5.0	2.0	2.0	1.5	1.3	1.5	4.2	38	49	13	12	3.9
MIN	.99	1.4	1.5	1.3	1.1	1.1	1.5	4.1	6.8	8.4	3.9	2.0
AC-FT	157	114	121	83	64	70	122	1110	1100	591	413	175

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1998, BY WATER YEAR (WY)

MEAN	2.74	2.13	1.57	1.27	1.06	1.11	1.75	11.0	32.9	13.8	4.82	3.04
MAX	6.11	3.49	2.33	2.12	1.52	1.60	2.75	25.5	70.3	46.6	8.05	5.12
(WY)	1997	1997	1997	1997	1997	1997	1997	1996	1997	1995	1984	1984
MIN	1.67	.48	.47	.59	.30	.12	.079	1.60	9.99	4.91	1.91	1.48
(WY)	1990	1985	1985	1985	1985	1985	1985	1985	1989	1994	1994	1994

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1984 - 1998	
ANNUAL TOTAL	3907.99		2077.59			
ANNUAL MEAN	10.7		5.69			
HIGHEST ANNUAL MEAN					11.2	1997
LOWEST ANNUAL MEAN					3.77	1989
HIGHEST DAILY MEAN	112	Jun 7	49	Jun 3	112 Jun 7	1997
LOWEST DAILY MEAN	.99	Oct 3	.99	Oct 3	.04 May 7	1985
ANNUAL SEVEN-DAY MINIMUM	1.2	Feb 22	1.1	Feb 16	.07 Apr 12	1985
INSTANTANEOUS PEAK FLOW			60	Jun 2	162 Jun 8	1997
INSTANTANEOUS PEAK STAGE			a1.86	Jun 2	b2.38 Jun 8	1997
ANNUAL RUNOFF (AC-FT)	7750		4120			
10 PERCENT EXCEEDS	30		12		15	
50 PERCENT EXCEEDS	2.7		2.0		2.1	
90 PERCENT EXCEEDS	1.5		1.1		1.0	

e-Estimated.
a-Maximum gage height, 2.13 ft, Apr 29, backwater from ice.
b-Maximum gage height, 2.39 ft, Jun 17, 1995.

400016105490800 MEADOW CREEK AT MOUTH NEAR TABERNASH, CO

LOCATION.--Lat 40°00'16", long 105°49'08", in NW¼SW¼ sec.32, T.1 N., R.75 W., Grand County, Hydrologic Unit 14010001, on left bank 0.5 mi upstream from mouth, 0.8 mi downstream from Meadow Creek Campground, and 2 mi northeast of Tabernash.

DRAINAGE AREA.--13.9 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 8,405 ft above sea level, from topographic map.

REMARKS.--Records fair, except for flows below 0.3 ft^3/s and estimated daily discharges, which are poor. Flow partially regulated by Meadow Creek 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.26	e.45	e.56	e.71	e.71	e.82	e1.5	5.5	40	1.1	.55	e.03
2	e.31	e.48	e.56	e.71	e.71	e.82	e1.5	6.0	43	1.1	.43	e.03
3	e.30	e.52	e.56	e.71	e.71	e.82	e1.5	7.1	41	1.0	.28	e.03
4	e.28	e.52	e.56	e.71	e.71	e.82	e1.5	7.7	38	1.2	.50	.00
5	e.28	e.52	e.56	e.71	e.71	e.82	e1.5	7.9	27	1.1	.78	.00
6	e.27	e.52	e.56	e.71	e.71	e.82	e1.8	7.5	13	1.2	.31	.00
7	.22	e.52	e.56	e.71	e.71	e.82	e1.8	7.4	6.8	1.1	.12	.00
8	.26	e.45	e.56	e.71	e.71	e.82	e1.8	7.1	4.3	1.0	.05	.00
9	.28	e.43	e.56	e.71	e.71	e.82	e1.8	7.4	2.5	1.2	.03	.00
10	.28	e.48	e.56	e.71	e.71	e.82	e1.8	7.8	2.3	1.6	.04	.00
11	.82	e.50	e.60	e.71	e.71	e.82	e1.8	8.0	2.2	1.6	.06	.00
12	2.1	e.46	e.64	e.71	e.71	e.82	e1.8	7.8	2.1	1.2	.13	.02
13	2.0	e.50	e.64	e.71	e.71	e.82	e1.8	8.6	2.0	1.1	.16	.03
14	2.2	e.47	e.64	e.71	e.71	e.82	e1.8	9.5	2.0	1.0	.21	.01
15	2.2	e.48	e.64	e.71	e.71	e.82	1.8	9.0	2.2	.97	.22	.00
16	1.7	e.52	e.64	e.71	e.71	e.82	1.9	8.4	1.9	.93	.10	.06
17	1.6	e.52	e.64	e.71	e.71	e.82	2.3	9.0	2.1	.86	.03	.06
18	2.1	e.52	e.64	e.71	e.71	e.82	2.2	9.6	2.2	.70	.03	.04
19	2.1	e.52	e.64	e.71	e.71	e.82	2.3	9.8	2.0	.52	.03	.04
20	2.1	e.52	e.64	e.71	e.71	e.82	2.4	9.8	1.7	.43	e.03	.03
21	2.2	e.52	e.64	e.71	e.80	e.82	2.5	9.7	1.7	.40	.03	.03
22	2.1	e.52	e.64	e.70	e.80	e.82	2.8	8.1	1.7	.60	.25	.02
23	2.1	e.52	e.64	e.71	e.80	e.82	3.5	5.3	1.5	.97	.15	.04
24	1.9	e.56	e.64	e.71	e.80	e1.0	4.2	5.0	1.4	1.1	.05	.04
25	1.9	e.56	e.64	e.71	e.80	e1.2	4.5	4.8	1.4	1.3	e.03	.04
26	1.4	e.56	e.71	e.71	e.80	e1.3	4.5	4.5	1.3	1.2	e.03	.04
27	.54	e.56	e.71	e.71	e.80	e1.5	4.3	4.3	1.2	.63	e.03	.05
28	e.47	e.56	e.71	e.71	e.80	e1.5	4.5	8.5	1.2	.51	e.03	.05
29	e.45	e.56	e.71	e.71	---	e1.5	5.0	16	1.1	1.0	e.03	.07
30	e.41	e.56	e.71	e.71	---	e1.5	5.2	29	1.1	.73	e.03	.08
31	e.42	---	e.71	e.71	---	e1.5	---	40	---	.42	e.03	---
TOTAL	35.55	15.38	19.42	22.00	20.60	29.86	77.6	296.1	251.9	29.77	4.78	0.84
MEAN	1.15	.51	.63	.71	.74	.96	2.59	9.55	8.40	.96	.15	.028
MAX	2.2	.56	.71	.71	.80	1.5	5.2	40	43	1.6	.78	.08
MIN	.22	.43	.56	.70	.71	.82	1.5	4.3	1.1	.40	.03	.00
AC-FT	71	31	39	44	41	59	154	587	500	59	9.5	1.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 1998, BY WATER YEAR (WY)

MEAN	1.15	.51	.63	.71	.74	.96	2.59	9.55	34.0	1.07	.19	.15
MAX	1.15	.51	.63	.71	.74	.96	2.59	9.55	59.7	1.18	.22	.28
(WY)	1998	1998	1998	1998	1998	1998	1998	1998	1997	1997	1997	1997
MIN	1.15	.51	.63	.71	.74	.96	2.59	9.55	8.40	.96	.15	.028
(WY)	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998

SUMMARY STATISTICS	FOR 1998 WATER YEAR			WATER YEARS 1997 - 1998		
ANNUAL TOTAL	803.80					
ANNUAL MEAN	2.20			2.20		
HIGHEST ANNUAL MEAN				2.20		1998
LOWEST ANNUAL MEAN				2.20		1998
HIGHEST DAILY MEAN	43	Jun	2	162	Jun	7 1997
LOWEST DAILY MEAN	a.00	Sep	4	b.00	Sep	4 1998
ANNUAL SEVEN-DAY MINIMUM	.00	Sep	4	.00	Sep	4 1998
INSTANTANEOUS PEAK FLOW	49	Jun	2	184	Jun	7 1997
INSTANTANEOUS PEAK STAGE	11.45	Jun	2	12.30	Jun	7 1997
ANNUAL RUNOFF (AC-FT)	1590			1600		
10 PERCENT EXCEEDS	5.0			8.0		
50 PERCENT EXCEEDS	.71			.71		
90 PERCENT EXCEEDS	.04			.07		

e-Estimated.
a-Also occurred Sep 5-11, and 15.
b-Also occurred Sep 5-11, and 15, 1998.

09033100 RANCH CREEK BELOW MEADOW CREEK NEAR TABERNASH, CO

LOCATION.--Lat 39°59'57", long 105°49'37", in NW¼NW¼ 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 4500 ft above mouth.

DRAINAGE AREA.--65.7 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	10	e14	e14	e10	e8.6	e19	44	250	36	23	8.7
2	6.2	13	e14	e14	e10	e9.2	e19	46	264	28	21	8.7
3	5.5	e12	e14	e14	e10	e9.2	e20	53	268	25	18	8.1
4	5.3	12	e14	e14	e10	e9.2	e21	58	262	25	21	7.6
5	13	12	e14	e14	e10	e9.2	e22	62	210	25	28	7.4
6	14	13	e14	e14	e10	e9.2	e24	56	168	25	18	7.5
7	14	12	e14	e14	e10	e9.2	e23	57	143	24	15	7.3
8	14	12	e14	e14	e9.8	e9.2	e22	58	135	21	13	7.3
9	15	10	e14	e14	e9.2	e9.2	e21	62	125	24	14	7.4
10	16	9.8	e14	e14	e9.2	e9.2	e20	67	123	32	15	7.4
11	17	11	e14	e14	e9.2	e9.2	e19	78	112	34	15	7.4
12	21	11	e14	e14	e9.2	e10	e18	73	89	24	15	8.0
13	19	9.9	e14	e14	e9.2	e10	e18	83	84	21	15	11
14	17	e10	e14	e14	e9.2	e11	e18	100	91	19	16	9.9
15	15	9.9	e14	e14	e9.2	e11	17	88	86	18	16	8.7
16	12	10	e14	e14	e9.2	e11	17	82	45	18	14	8.3
17	11	e12	e14	e14	e9.2	e11	16	95	47	17	14	8.0
18	12	e12	e14	e13	e9.2	e11	17	110	44	16	14	7.6
19	12	e12	e14	e13	e9.2	e12	17	115	39	15	14	6.9
20	11	e12	e14	e13	e9.2	e12	18	126	37	14	13	6.9
21	12	e12	e14	e13	e9.2	e13	19	153	34	15	13	7.1
22	12	e12	e14	e12	e9.2	e13	26	160	38	16	15	8.2
23	11	e13	e14	e12	e9.2	e13	35	132	44	21	14	11
24	10	e14	e14	e12	e9.2	e14	45	117	102	24	12	12
25	9.3	e14	e14	e12	e9.2	e15	46	122	102	26	12	11
26	e9.5	e14	e14	e12	e9.2	e17	45	141	85	36	11	10
27	e9.8	e14	e14	e11	e9.2	e16	36	145	89	21	11	8.2
28	e10	e14	e14	e11	e9.2	e16	36	165	91	23	11	7.7
29	e10	e14	e14	e10	---	e16	39	188	70	36	9.5	8.4
30	e10	e14	e14	e10	---	e17	44	221	38	28	8.9	9.3
31	e10	---	e14	e10	---	e18	---	242	---	24	9.0	---
TOTAL	371.7	360.6	434	402	263.8	367.6	757	3299	3315	731	458.4	253.0
MEAN	12.0	12.0	14.0	13.0	9.42	11.9	25.2	106	111	23.6	14.8	8.43
MAX	21	14	14	14	10	18	46	242	268	36	28	12
MIN	5.3	9.8	14	10	9.2	8.6	16	44	34	14	8.9	6.9
AC-FT	737	715	861	797	523	729	1500	6540	6580	1450	909	502

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 1998, BY WATER YEAR (WY)

MEAN	12.0	12.0	14.0	13.0	9.42	11.9	25.2	147	270	39.9	17.5	9.84
MAX	12.0	12.0	14.0	13.0	9.42	11.9	25.2	187	429	56.2	20.2	11.2
(WY)	1998	1998	1998	1998	1998	1998	1998	1997	1997	1997	1997	1997
MIN	12.0	12.0	14.0	13.0	9.42	11.9	25.2	106	111	23.6	14.8	8.43
(WY)	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998

SUMMARY STATISTICS	FOR 1998 WATER YEAR			WATER YEARS 1997 - 1998		
ANNUAL TOTAL	11013.1					
ANNUAL MEAN	30.2			30.2		
HIGHEST ANNUAL MEAN				30.2		1998
LOWEST ANNUAL MEAN				30.2		1998
HIGHEST DAILY MEAN	268	Jun	3	718	Jun	7 1997
LOWEST DAILY MEAN	5.3	Oct	4	5.3	Oct	4 1997
ANNUAL SEVEN-DAY MINIMUM	7.4	Sep	5	7.4	Sep	28 1997
INSTANTANEOUS PEAK FLOW	309	Jun	2	763	Jun	9 1997
INSTANTANEOUS PEAK STAGE	6.03	Jun	2	7.18	Jun	9 1997
ANNUAL RUNOFF (AC-FT)	21840			21860		
10 PERCENT EXCEEDS	84			184		
50 PERCENT EXCEEDS	14			16		
90 PERCENT EXCEEDS	9.2			9.2		

e-Estimated.

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 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT							
22...	1333	8.9	70	8.2	6.0	9.8	K3
NOV							
12...	1450	13	70	8.0	1.7	10.4	<1
DEC							
10...	1450	14	79	7.6	0.0	10.9	K1
JAN							
14...	1730	14	29	7.3	0.0	11.0	K1
FEB							
10...	1430	9.2	84	7.7	0.0	10.3	K1
MAR							
17...	1420	11	82	--	0.0	10.8	K1
APR							
08...	1430	23	87	8.2	3.5	9.8	<1
MAY							
06...	1420	54	49	8.3	7.5	9.1	K6
JUN							
23...	1645	29	61	8.2	17.8	7.3	K2
JUL							
16...	1400	17	84	8.5	20.5	7.5	10
AUG							
19...	1345	14	78	8.5	16.3	7.2	--
SEP							
02...	1325	8.6	92	8.6	17.0	7.6	K43

DATE	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 DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT							
22...	0.6	<1	0.001	<0.005	<0.002	0.008	0.004
NOV							
12...	0.5	<1	0.001	0.014	0.003	0.006	0.004
DEC							
10...	0.5	2	<0.001	0.056	0.004	0.004	0.004
JAN							
14...	0.5	<1	0.001	0.076	<0.002	0.006	0.005
FEB							
10...	0.3	3	0.001	0.061	0.003	0.007	0.006
MAR							
17...	0.5	<1	0.001	0.060	0.004	0.004	0.004
APR							
08...	0.6	1	0.001	0.019	0.003	0.008	0.006
MAY							
06...	0.3	1	<0.001	<0.005	<0.002	0.010	0.002
JUN							
23...	0.3	4	0.001	<0.005	<0.002	0.011	0.011
JUL							
16...	0.6	4	<0.001	<0.005	<0.002	0.019	0.012
AUG							
19...	0.6	2	0.001	<0.005	0.004	0.016	0.010
SEP							
02...	0.7	1	<0.001	<0.005	<0.002	0.014	0.007

K-Based on non-ideal colony count.

395634105532401 CROOKED CREEK BELOW TIPPERARY CREEK NEAR TABERNASH, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°56'34", long 105°53'24", NE¼SE¼ 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 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT							
22...	1135	1.7	176	8.4	3.5	9.0	K9
NOV							
13...	1250	2.1	171	8.2	1.0	10.5	K1
DEC							
11...	1300	0.8	184	8.6	0.1	10.8	K1
JAN							
15...	0940	1.9	174	8.0	0.0	10.9	K1
FEB							
11...	1030	1.3	142	8.1	0.0	9.8	K1
MAR							
18...	1210	1.7	185	--	0.0	10.2	K1
APR							
08...	1145	2.6	187	7.7	0.5	10.4	K1
MAY							
07...	1100	13	134	8.2	3.0	9.9	K1
JUN							
24...	1245	15	120	8.1	11.2	7.7	K3
JUL							
17...	1145	5.7	144	8.0	15.8	7.3	16
AUG							
19...	1200	3.0	178	7.9	14.5	--	--
SEP							
02...	1200	2.1	195	8.0	13.1	7.0	>320

DATE	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 DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT							
22...	0.7	6	<0.001	<0.005	<0.002	0.008	0.005
NOV							
13...	0.3	3	<0.001	<0.005	0.006	0.008	0.006
DEC							
11...	0.6	3	0.001	0.010	0.011	0.004	0.004
JAN							
15...	0.6	<1	0.001	0.016	0.009	0.003	0.002
FEB							
11...	0.2	1	0.005	0.023	0.005	0.005	0.003
MAR							
18...	0.2	2	0.002	0.017	0.007	0.002	0.003
APR							
08...	0.3	1	0.002	0.015	<0.002	0.003	<0.001
MAY							
07...	0.3	<1	0.002	0.041	<0.002	0.017	<0.001
JUN							
24...	<0.1	5	0.001	<0.005	<0.002	0.005	0.010
JUL							
17...	0.1	7	<0.001	<0.005	<0.002	0.010	0.006
AUG							
19...	0.1	5	<0.001	<0.005	<0.002	0.015	0.010
SEP							
02...	0.2	5	<0.001	<0.005	0.006	0.010	0.006

K-Based on non-ideal colony count.

395901105550800 POLE CREEK AT UPPER STATION NEAR TABERNASH, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°59'01", long 105°55'08", SE¼SW¼ 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 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT							
22...	0822	1.1	120	8.0	1.0	9.2	K9
NOV							
13...	1015	0.8	121	8.2	0.0	10.5	K5
DEC							
11...	0820	0.8	156	8.3	0.0	10.6	K3
JAN							
15...	1230	0.3	131	7.3	1.0	8.5	K5
FEB							
11...	0910	0.5	149	8.0	0.0	9.0	K5
MAR							
17...	1020	0.3	141	--	0.0	9.2	K3
APR							
08...	0915	1.7	148	7.9	0.2	10.4	K3
MAY							
07...	0900	7.2	109	8.0	1.9	9.7	K1
JUN							
24...	1000	3.5	83	8.0	7.8	8.0	53
JUL							
17...	0900	0.66	97	7.6	11.8	7.2	99
AUG							
19...	0845	0.67	200	7.9	11.0	7.4	--
SEP							
02...	0900	0.43	212	8.2	9.6	7.8	K14

DATE	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 DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT							
22...	0.5	<1	<0.001	<0.005	<0.002	0.017	0.014
NOV							
13...	0.3	3	0.001	<0.005	0.005	0.016	0.012
DEC							
11...	0.5	2	<0.001	0.010	<0.002	0.017	0.014
JAN							
15...	0.3	<1	0.001	0.021	0.009	0.016	0.013
FEB							
11...	0.3	3	0.001	0.028	0.015	0.014	0.012
MAR							
17...	0.4	7	0.015	0.069	0.020	0.018	0.017
APR							
08...	0.6	1	0.006	0.038	0.011	0.012	0.011
MAY							
07...	0.3	4	<0.001	0.027	<0.002	0.016	0.005
JUN							
24...	<0.1	3	<0.001	<0.005	<0.002	0.016	0.005
JUL							
17...	<0.1	2	0.001	<0.005	<0.002	0.022	0.011
AUG							
19...	0.3	4	0.001	<0.005	<0.002	0.019	0.012
SEP							
02...	0.3	3	0.001	<0.005	<0.002	0.015	0.009

K-Based on non-ideal colony count.

395930105510700 POLE CREEK AT MOUTH NEAR TABERNASH, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°59'30", long 105°51'07", SE¼NE¼ 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 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT							
22...	0945	2.3	262	8.2	2.5	9.9	K6
NOV							
13...	1110	2.4	260	8.5	10.0	11.3	<1
DEC							
11...	0910	2.7	295	8.5	0.0	10.8	<1
JAN							
15...	1330	2.1	283	7.8	0.0	9.4	84
FEB							
11...	1310	2.3	285	8.0	0.0	10.1	<1
MAR							
18...	1105	2.3	278	--	0.0	9.9	K1
APR							
08...	1015	3.7	257	8.2	1.0	10.0	<1
MAY							
07...	1000	14	172	8.1	4.5	9.5	K7
JUN							
24...	1130	2.3	245	8.1	11.2	7.7	>120
JUL							
17...	1030	0.77	295	8.0	16.4	6.3	K15
AUG							
19...	1000	0.88	325	8.0	13.4	7.7	--
SEP							
02...	1035	0.78	311	8.2	12.6	7.1	K43

DATE	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 DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT							
22...	2.1	<1	0.001	0.009	0.002	0.015	0.011
NOV							
13...	1.8	2	0.003	0.038	0.004	0.013	0.009
DEC							
11...	2.1	2	0.002	0.200	0.045	0.017	0.015
JAN							
15...	1.7	<1	0.003	0.262	0.046	0.020	0.017
FEB							
11...	1.6	3	0.003	0.238	0.026	0.020	0.016
MAR							
18...	2.1	3	0.003	0.239	0.023	0.020	0.017
APR							
08...	2.3	2	0.001	0.097	0.008	0.021	0.017
MAY							
07...	1.0	10	0.004	<0.005	<0.002	0.023	0.015
JUN							
24...	0.8	6	<0.001	0.008	<0.002	0.026	0.020
JUL							
17...	1.1	6	0.002	<0.005	<0.002	0.039	0.031
AUG							
19...	1.2	5	<0.001	<0.005	<0.002	0.032	0.025
SEP							
02...	1.3	8	0.001	0.010	0.003	0.029	0.018

K-Based on non-ideal colony count.

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 mi^2.

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 fair except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, and diversions 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	196	e94	e79	e81	e88	236	551	844	1310	257	110
2	115	183	e88	e79	e79	e86	439	574	898	1430	234	87
3	119	149	e82	e92	e86	e85	428	589	949	1280	216	88
4	122	159	e82	e85	e86	e91	446	642	977	1100	189	68
5	138	177	e76	e86	e86	e89	455	651	909	985	235	83
6	164	161	e81	e86	e86	e89	453	685	782	751	173	64
7	146	155	e78	e76	e86	e89	431	672	698	602	153	79
8	134	136	e79	e83	e86	e95	431	711	657	617	161	66
9	142	140	e121	e81	e86	e101	425	677	624	542	148	72
10	139	133	e83	e85	e82	e82	418	706	601	428	170	79
11	144	153	e52	e79	e84	e89	429	754	590	540	139	60
12	171	139	e77	e82	e84	e80	447	621	544	484	136	78
13	181	140	e75	e83	e86	e81	434	359	543	419	149	85
14	147	130	e76	e85	e91	e89	411	400	559	317	147	86
15	166	111	e81	e75	e76	77	392	384	566	284	151	77
16	163	92	e81	e86	e90	91	379	291	500	281	142	75
17	135	75	e81	e85	e89	130	373	292	463	268	138	71
18	141	79	e81	e78	e82	128	416	353	506	253	142	71
19	135	86	e80	e88	e89	112	402	381	466	247	148	67
20	151	89	e80	e88	e81	109	399	400	420	244	151	54
21	195	80	e81	e86	e86	121	408	504	402	240	138	68
22	171	e65	e81	e74	e86	125	402	574	398	276	140	63
23	180	e105	e76	e93	e86	159	460	543	427	268	135	98
24	183	e85	e77	e82	e89	220	541	494	498	300	126	88
25	179	e85	e78	e86	e89	281	572	481	522	322	121	95
26	154	e92	e77	e86	e89	333	548	524	539	354	140	88
27	154	76	e70	e86	e85	310	476	566	494	310	122	84
28	157	76	e69	e80	e82	312	475	629	606	289	124	89
29	161	85	e81	e87	---	277	510	741	911	310	110	70
30	159	e82	e76	e89	---	181	557	822	971	291	102	77
31	194	---	e77	e82	---	172	---	844	---	271	112	---
TOTAL	4720	3514	2471	2592	2388	4372	13193	17415	18864	15613	4749	2340
MEAN	152	117	79.7	83.6	85.3	141	440	562	629	504	153	78.0
MAX	195	196	121	93	91	333	572	844	977	1430	257	110
MIN	80	65	52	74	76	77	236	291	398	240	102	54
AC-FT	9360	6970	4900	5140	4740	8670	26170	34540	37420	30970	9420	4640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1998, BY WATER YEAR (WY)

MEAN	104	104	82.4	79.2	78.9	116	320	707	1002	565	188	106
MAX	152	188	120	110	110	260	881	2326	2997	2096	509	202
(WY)	1985	1986	1985	1985	1985	1984	1996	1984	1984	1983	1997	1984
MIN	59.9	76.5	64.3	59.0	63.5	75.8	132	138	186	172	106	65.4
(WY)	1982	1982	1982	1989	1982	1983	1983	1992	1990	1989	1989	1989

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1982 - 1998	
ANNUAL TOTAL	192281		92231			
ANNUAL MEAN	527		253		288	
HIGHEST ANNUAL MEAN					726	1984
LOWEST ANNUAL MEAN					122	1989
HIGHEST DAILY MEAN	4260	Jun 9	1430	Jul 2	4930	May 25 1984
LOWEST DAILY MEAN	e52	Dec 11	e52	Dec 11	38	Dec 20 1995
ANNUAL SEVEN-DAY MINIMUM	75	Dec 11	67	Sep 16	51	Oct 1 1981
INSTANTANEOUS PEAK FLOW			1450	Jul 2	5260	May 25 1984
INSTANTANEOUS PEAK STAGE			4.92	Jul 2	7.34	May 25 1984
ANNUAL RUNOFF (AC-FT)	381400		182900		208800	
10 PERCENT EXCEEDS	1820		580		666	
50 PERCENT EXCEEDS	163		139		110	
90 PERCENT EXCEEDS	82		78		70	

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 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
NOV									
25...	1145	67	138	8.2	0.5	10.9	54	17	2.9
APR									
22...	1345	424	89	8.8	7.0	11.0	35	11	1.9
AUG									
13...	1000	147	135	8.9	16.0	8.9	52	16	2.6

DATE	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 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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
NOV									
25...	6.4	0.4	1.2	65	4.7	2.2	0.2	13	87
APR									
22...	3.6	0.3	0.8	39	3.9	1.5	0.2	7.7	54
AUG									
13...	5.9	0.4	1.3	62	4.2	2.2	0.2	11	82

DATE	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, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	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)
NOV								
25...	0.12	15.9	<1	0.17	--	0.2	0.03	0.03
APR								
22...	0.07	62.0	2	0.05	0.3	0.1	0.03	<0.01
AUG								
13...	0.11	32.4	6	0.06	0.2	0.2	0.03	0.03

DATE	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 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)
NOV									
25...	<1	<1	<1	16	<0.5	<1	<1	<1	<1
APR									
22...	<1	<1	<1	11	<1.0	<1	<1	<1	<1
AUG									
13...	<1	<1	<1	14	<1.0	<1	<1	<1	<1

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)
NOV								
25...	<1	<1	90	<1	<1	41	<0.1	<0.1
APR								
22...	<1	<1	55	<1	<1	20	<0.1	<0.1
AUG								
13...	<1	<1	220	<1	<1	20	<0.1	<0.1

DATE	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)
NOV								
25...	<1	<1	<1	<1	<1	<1	<10	<3
APR								
22...	<1	<1	<1	<1	<1	<1	<10	<20
AUG								
13...	<1	<1	<1	<1	<1	<1	<10	<20

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 mi^2.

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 fair 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	e2.0	e1.4	e.98	e.96	e.84	e.80	e2.2	50	71	31	7.1
2	5.5	e2.1	e1.4	e.94	e.94	e.89	e.80	e2.4	59	65	25	6.0
3	5.5	e2.0	e1.3	e.95	e.98	e.90	e.83	3.3	67	58	22	5.5
4	4.8	e1.9	e1.2	e.94	e1.0	e.89	e.84	5.8	54	53	22	5.1
5	4.6	e2.0	e1.2	e.96	e1.0	e.88	e.83	5.6	38	48	19	4.9
6	4.6	e2.0	e1.2	e1.0	e.97	e.88	e.88	4.8	32	50	16	4.8
7	4.2	e1.9	e1.1	e.94	e.94	e.86	e.86	3.1	28	43	15	4.6
8	4.6	e1.8	e1.2	e.90	e.92	e.83	e.82	3.0	26	42	14	4.7
9	6.1	e1.8	e1.1	e.85	e.90	e.78	e.80	3.8	28	48	13	4.7
10	4.8	e1.7	e1.1	e.88	e.84	e.79	e.80	5.7	30	49	12	4.4
11	4.3	e1.7	e1.0	e.90	e.80	e.82	e.86	8.3	27	46	11	4.3
12	5.1	e1.6	e1.0	e.91	e.85	e.86	e.90	6.1	32	39	11	5.4
13	6.2	e1.6	e1.0	e.90	e.89	e.88	e.79	e9.0	33	34	10	5.1
14	5.4	e1.4	e1.1	e.89	e.94	e.86	e.76	e12	27	30	9.1	4.7
15	5.0	e1.3	e1.1	e.90	e.99	e.86	e.77	6.9	25	27	8.9	4.3
16	4.9	e1.4	e1.1	e.94	e1.0	e.87	e.78	7.2	24	24	8.7	4.3
17	4.9	e1.4	e1.0	e.98	e1.0	e.87	e.78	e12	27	22	9.6	4.2
18	4.5	e1.5	e1.0	e1.0	e.95	e.85	e.80	15	24	21	9.7	4.1
19	4.3	e1.5	e1.0	e1.0	e.88	e.82	e.82	16	33	19	9.2	3.8
20	3.9	e1.6	e1.1	e.99	e.86	e.79	e.83	21	39	18	7.8	3.7
21	4.0	e1.5	e1.0	e.94	e.89	e.80	e.86	24	49	17	8.2	3.6
22	4.3	e1.4	e.96	e.92	e.92	e.82	1.3	21	58	18	7.9	3.5
23	3.9	e1.3	e.95	e.96	e.96	e.84	2.0	17	59	24	7.1	3.7
24	e3.3	e1.4	e.94	e.97	e1.0	e.85	2.2	17	55	28	6.6	3.6
25	e2.8	e1.4	e.94	e.96	e.94	e.86	2.1	18	58	32	6.9	3.3
26	e2.0	e1.5	e.93	e.98	e.86	e.89	e2.0	22	65	29	6.4	3.2
27	e2.0	e1.4	e.95	e1.0	e.93	e.92	e1.9	28	66	25	6.9	3.2
28	e2.0	e1.4	e.98	e.96	e.78	e.89	e2.0	37	68	39	6.1	3.2
29	e2.0	e1.4	e1.0	e.95	---	e.88	e2.1	41	67	36	5.8	3.2
30	e2.0	e1.3	e.99	e.94	---	e.82	e2.3	43	74	29	5.5	3.2
31	e2.0	---	e.98	e.95	---	e.76	---	44	---	26	5.5	---
TOTAL	129.1	48.2	33.22	29.28	25.89	26.35	35.11	465.2	1322	1110	356.9	129.4
MEAN	4.16	1.61	1.07	.94	.92	.85	1.17	15.0	44.1	35.8	11.5	4.31
MAX	6.2	2.1	1.4	1.0	1.0	.92	2.3	44	74	71	31	7.1
MIN	2.0	1.3	.93	.85	.78	.76	.76	2.2	24	17	5.5	3.2
AC-FT	256	96	66	58	51	52	70	923	2620	2200	708	257

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1998, BY WATER YEAR (WY)

MEAN	3.00	1.71	1.09	.87	.79	.77	1.43	14.6	57.5	30.9	9.71	4.61
MAX	5.49	3.33	1.79	1.24	1.15	1.21	4.30	31.0	85.8	75.5	25.5	9.74
(WY)	1985	1984	1983	1983	1995	1995	1969	1996	1997	1995	1983	1983
MIN	1.51	1.03	.78	.58	.48	.52	.68	1.57	27.3	7.08	4.90	2.35
(WY)	1981	1974	1977	1972	1972	1972	1973	1995	1966	1977	1977	1987

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1966 - 1998	
ANNUAL TOTAL	4965.65		3710.65			
ANNUAL MEAN	13.6		10.2		10.6	
HIGHEST ANNUAL MEAN					15.5	1984
LOWEST ANNUAL MEAN					6.28	1977
HIGHEST DAILY MEAN	129	Jun 20	74	Jun 30	146	Jun 25 1983
LOWEST DAILY MEAN	e.74	Feb 22	e,a.76	Mar 31	.44	Feb 11 1972
ANNUAL SEVEN-DAY MINIMUM	.76	Feb 20	.79	Apr 13	.46	Feb 11 1972
INSTANTANEOUS PEAK FLOW			119	Jul 28	290	Jun 28 1988
INSTANTANEOUS PEAK STAGE			4.49	Jul 28	b5.19	Jun 28 1988
ANNUAL RUNOFF (AC-FT)	9850		7360		7670	
10 PERCENT EXCEEDS	43		33		34	
50 PERCENT EXCEEDS	2.0		2.1		2.0	
90 PERCENT EXCEEDS	.80		.86		.70	

e-Estimated
a-Also occurred on Apr 14.
b-Maximum gage height, 7.57 ft, May 15, 1984, backwater from ice.

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 mi^2.

PERIOD OF RECORD.--July 1933 to September 1941, published as Williams River below Steelman Creek. October 1965 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	7.7	e5.9	e4.7	e3.3	e2.4	e2.8	7.4	127	147	3.3	1.6
2	10	7.7	e5.6	e4.9	e3.4	e2.5	e2.8	7.2	140	132	3.0	10
3	11	7.6	e5.4	e4.8	e3.5	e2.7	e2.9	11	149	121	16	15
4	10	6.9	e5.2	e4.7	e3.5	e2.8	e2.9	15	127	116	3.0	11
5	9.9	e7.2	e5.3	e4.5	e3.6	e2.8	e2.9	17	97	104	2.7	.70
6	9.5	e7.1	e5.0	e4.4	e3.4	e2.7	e2.8	13	84	105	2.3	.60
7	9.6	e6.8	e4.8	e4.2	e3.3	e2.6	e2.7	11	76	94	2.1	.53
8	11	e6.6	e4.8	e3.9	e3.3	e2.5	e2.6	10	73	88	2.0	.51
9	11	e6.4	e5.1	e4.0	e3.2	e2.5	e2.6	12	73	96	2.0	.54
10	11	e6.2	e5.2	e4.0	e3.1	e2.6	e2.7	16	75	100	9.7	.49
11	11	e6.1	e5.1	e4.1	e2.9	e2.7	e3.0	19	72	92	2.1	.46
12	11	e6.4	e4.9	e4.1	e2.9	e2.7	e3.3	18	78	80	1.9	.74
13	12	e6.0	e4.9	e4.0	e3.0	e2.8	e3.0	27	83	72	1.8	.76
14	12	e6.1	e5.0	e3.8	e3.1	e2.9	e2.8	31	74	65	6.3	.57
15	12	e5.8	e5.0	e3.6	e3.1	e3.0	e2.7	22	69	59	3.4	.47
16	12	e6.0	e4.9	e3.7	e3.2	e3.0	e2.6	23	66	26	3.0	.43
17	11	e6.1	e4.8	e3.8	e3.2	e2.9	e2.6	33	69	3.6	8.3	.62
18	10	e6.2	e4.7	e3.9	e3.1	e2.8	e2.6	41	65	3.1	4.8	.50
19	9.8	e6.2	e4.8	e3.8	e3.0	e2.7	e2.6	48	77	2.9	18	.75
20	9.5	e6.1	e4.7	e3.8	e2.9	e2.6	e2.7	58	92	15	12	.69
21	9.4	e5.9	e4.6	e3.8	e2.9	e2.7	e2.8	65	108	2.8	7.7	1.6
22	9.3	e5.6	e4.6	e3.4	e3.0	e2.7	3.6	58	126	3.1	1.8	7.8
23	8.5	e5.5	e4.5	e3.6	e3.1	e2.7	5.3	50	133	4.1	1.4	8.0
24	8.1	e5.6	e4.4	e3.7	e3.1	e2.9	6.6	47	127	30	5.9	7.8
25	8.1	e5.8	e4.4	e3.7	e3.0	e3.1	6.3	51	132	59	6.4	7.1
26	8.1	e5.9	e4.4	e3.7	e2.8	e3.2	5.4	62	141	55	6.1	7.0
27	8.1	e5.9	e4.4	e3.6	e2.7	e3.2	5.0	77	146	47	1.7	6.8
28	8.1	e5.8	e4.4	e3.5	e2.5	e3.1	5.1	97	147	34	e1.6	6.7
29	8.1	e5.9	e4.4	e3.5	---	e2.9	5.9	108	146	4.0	e1.5	7.0
30	8.1	e6.1	e4.5	e3.5	---	e2.6	7.0	115	154	3.0	e1.4	7.1
31	7.8	---	e4.6	e3.4	---	e2.7	---	116	---	2.8	e1.3	---
TOTAL	306.0	189.2	150.3	122.1	87.1	86.0	108.6	1285.6	3126	1766.4	144.5	113.86
MEAN	9.87	6.31	4.85	3.94	3.11	2.77	3.62	41.5	104	57.0	4.66	3.80
MAX	12	7.7	5.9	4.9	3.6	3.2	7.0	116	154	147	18	15
MIN	7.8	5.5	4.4	3.4	2.5	2.4	2.6	7.2	65	2.8	1.3	.43
AC-FT	607	375	298	242	173	171	215	2550	6200	3500	287	226

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1998, BY WATER YEAR (WY)

MEAN	5.55	3.54	2.44	2.03	1.93	1.97	3.78	31.6	118	59.6	12.3	7.22
MAX	16.3	8.07	4.85	4.30	3.90	4.99	10.6	89.2	213	200	44.5	18.4
(WY)	1985	1938	1996	1939	1939	1985	1992	1936	1938	1995	1983	1984
MIN	.98	.58	.39	.31	.30	.35	.61	5.45	15.5	4.85	.70	.70
(WY)	1967	1987	1987	1978	1978	1987	1973	1991	1976	1968	1979	1979

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1934 - 1998	
ANNUAL TOTAL	11355.0		7485.66			
ANNUAL MEAN	31.1		20.5		a26.7	
HIGHEST ANNUAL MEAN					39.0	1995
LOWEST ANNUAL MEAN					4.11	1976
HIGHEST DAILY MEAN	316	Jun 21	154	Jun 30	395	Jul 12 1995
LOWEST DAILY MEAN	e2.4	Feb 23	.43	Sep 16	.20	Mar 6 1967
ANNUAL SEVEN-DAY MINIMUM	2.5	Feb 17	.55	Sep 5	.27	Feb 13 1971
INSTANTANEOUS PEAK FLOW			b184	Jun 2	c516	Jul 11 1995
INSTANTANEOUS PEAK STAGE			b4.46	Jun 2	d5.64	Jul 11 1995
ANNUAL RUNOFF (AC-FT)	22520		14850		a19340	
10 PERCENT EXCEEDS	115		77		70	
50 PERCENT EXCEEDS	6.1		5.0		3.5	
90 PERCENT EXCEEDS	2.9		2.5		.60	

e-Estimated.
a-Includes diversions to August P. Gumlick Tunnel.
b-Also occurred June 27.
c-From rating curve extended above 250 ft^3/s.
d-Maximum gage height, 6.96 ft, May 15, 1984, backwater from ice.

09035700 WILLIAMS FORK ABOVE DARLING CREEK, NEAR LEAL, CO

LOCATION.--Lat 39°47'50", long 106°01'32", in NW¼NW¼ sec.16, T.3 S., R.77 W., Grand County, Hydrologic Unit 14010001, on left bank 0.3 mi upstream from Darling Creek, and 1.4 mi southeast of Leal.

DRAINAGE AREA.--35.0 mi^2.

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

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

GAGE.--Water-stage recorder. Elevation of gage is 8,940 ft above sea level, from topographic map. Prior to Oct. 1, 1972, and May 6, 1981 to Jan. 31, 1983, at site 300 ft upstream at different datum. Prior to Oct. 20, 1992, and Oct. 1, 1972 to May 5, 1981, at site 0.6 mi upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Transmountain diversion upstream from station through August P. Gumlick Tunnel (station 09035000). 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e24	e21	e20	e10	e9.0	e9.0	e9.4	63	224	205	30	11
2	e22	e22	e20	e10	e9.0	e9.0	e9.6	62	231	187	26	15
3	e20	e22	e20	e10	e9.0	e9.0	e9.0	70	224	172	35	22
4	e18	e23	e20	e10	e9.0	e9.0	e9.4	83	214	168	27	21
5	e17	e24	e19	e10	e9.0	e9.0	e10	85	167	150	25	10
6	e17	e23	e19	e10	e9.0	e9.0	e9.7	80	143	148	21	8.6
7	e17	e22	e18	e10	e9.0	e9.0	e9.4	75	130	135	20	8.1
8	e17	e21	e17	e10	e9.0	e9.0	e9.2	71	122	123	19	8.0
9	e17	e21	e17	e9.7	e9.0	e9.0	e9.0	75	119	132	18	8.5
10	e17	e20	e16	e9.5	e9.0	e9.0	e9.4	83	121	147	25	7.9
11	e17	e20	e16	e9.4	e9.0	e9.0	e10	91	117	135	20	7.5
12	e17	e20	e16	e9.4	e9.0	e9.0	e11	86	120	114	17	8.9
13	e17	e20	e16	e9.2	e9.0	e9.0	e11	99	132	103	17	9.8
14	e17	e20	e16	e9.1	e9.0	e9.0	e10	103	120	94	19	8.4
15	e17	e20	e15	e9.0	e9.0	e9.0	e9.6	86	113	87	17	7.7
16	e17	e20	e14	e9.0	e9.0	e9.0	e9.6	83	107	64	16	7.3
17	e17	e20	e13	e9.0	e9.0	e9.0	e9.6	101	113	33	22	7.1
18	e16	e20	e13	e9.0	e9.0	e9.0	e9.6	117	107	30	20	7.0
19	e16	e20	e12	e9.0	e9.0	e9.0	e10	126	115	28	30	6.8
20	e16	e20	e12	e9.0	e9.0	e8.8	e10	140	139	36	29	6.8
21	e15	e20	e12	e9.0	e9.0	e8.0	e10	151	159	27	22	6.6
22	e15	e20	e11	e9.0	e9.0	e8.4	e12	145	182	26	18	12
23	e15	e20	e11	e9.0	e9.0	e8.4	e19	126	197	37	14	14
24	15	e20	e10	e9.0	e9.0	e9.4	e25	123	195	48	16	14
25	15	e20	e10	e9.0	e9.0	e10	e29	123	195	83	18	13
26	16	e20	e10	e9.0	e9.0	e11	e28	143	211	81	17	12
27	16	e20	e10	e9.0	e9.0	e10	e27	164	217	67	17	12
28	e17	e20	e10	e9.0	e9.0	e9.6	e50	192	216	67	12	12
29	e18	e20	e10	e9.0	---	e9.6	59	199	208	35	11	13
30	e19	e20	e10	e9.0	---	e8.8	63	209	213	28	10	13
31	e20	---	e10	e9.0	---	e9.0	---	208	---	25	9.9	---
TOTAL	534	619	443	289.3	252.0	282.0	516.5	3562	4871	2815	617.9	319.0
MEAN	17.2	20.6	14.3	9.33	9.00	9.10	17.2	115	162	90.8	19.9	10.6
MAX	24	24	20	10	9.0	11	63	209	231	205	35	22
MIN	15	20	10	9.0	9.0	8.0	9.0	62	107	25	9.9	6.6
AC-FT	1060	1230	879	574	500	559	1020	7070	9660	5580	1230	633

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1998, BY WATER YEAR (WY)

MEAN	12.5	9.55	7.88	6.58	5.99	6.50	11.5	61.3	206	109	27.6	16.3
MAX	33.5	20.6	15.5	13.4	13.6	17.9	26.0	155	378	320	75.5	40.9
(WY)	1996	1998	1996	1996	1996	1996	1996	1996	1997	1995	1983	1984
MIN	6.20	4.90	3.87	3.43	3.47	3.21	5.29	21.3	63.6	21.9	10.4	7.09
(WY)	1980	1990	1975	1975	1975	1980	1973	1975	1966	1977	1981	1966

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1966 - 1998	
ANNUAL TOTAL	23238.1		15120.7			
ANNUAL MEAN	63.7		41.4		40.1	
HIGHEST ANNUAL MEAN					71.3	1984
LOWEST ANNUAL MEAN					17.6	1976
HIGHEST DAILY MEAN	533	Jun 20	231	Jun 2	555	Jul 12 1995
LOWEST DAILY MEAN	e8.4	Mar 11	6.6	Sep 21	2.7	Apr 5 1977
ANNUAL SEVEN-DAY MINIMUM	8.5	Mar 5	7.0	Sep 15	2.8	Mar 31 1977
INSTANTANEOUS PEAK FLOW			297	Jun 2	751	Jun 17 1995
INSTANTANEOUS PEAK STAGE			7.18	Jun 2	a6.94	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	46090		29990		29040	
10 PERCENT EXCEEDS	200		132		120	
50 PERCENT EXCEEDS	20		17		11	
90 PERCENT EXCEEDS	10		9.0		5.0	

e-Estimated.
a-Maximum gage height, 7.18 ft, Jun 2, 1998, present site and datum.

09035800 DARLING CREEK NEAR LEAL, CO

LOCATION.--Lat 39°48'02", long 106°01'33", in SW¼SW¼ sec.9 (revised), 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 mi^2, revised. (Area at site used prior to Aug. 23, 1996, 8.21 mi^2, revised.)

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	e4.0	e4.0	e3.0	e3.0	e3.0	e2.3	3.9	45	37	17	6.3
2	4.3	e4.0	e4.0	e3.0	e3.0	e3.0	e2.3	4.0	51	34	14	6.0
3	4.7	e4.0	e4.0	e3.0	e3.0	e3.0	e2.2	5.3	54	32	13	5.6
4	4.4	e4.0	e4.0	e3.0	e3.0	e3.0	e2.2	6.3	46	30	14	5.3
5	4.2	e4.0	e3.9	e3.0	e3.0	e3.0	e2.1	6.6	36	28	13	5.1
6	4.1	e4.0	e3.8	e3.0	e3.0	e3.0	e2.1	6.3	31	28	12	5.0
7	4.1	e4.0	e3.7	e3.0	e3.0	e3.0	e2.0	5.5	28	25	11	4.8
8	4.7	e4.0	e3.7	e3.0	e3.0	e3.0	e2.0	5.2	26	23	11	5.0
9	4.9	e4.0	e3.6	e3.0	e3.0	e3.0	e2.0	5.2	25	23	11	5.2
10	5.0	e4.0	e3.5	e3.0	e3.0	e3.0	e1.9	6.1	25	32	11	4.8
11	4.8	e4.0	e3.5	e3.0	e3.0	e3.0	2.2	7.0	24	28	10	4.7
12	4.7	e4.0	e3.5	e3.0	e3.0	e3.0	2.2	6.9	25	24	9.9	5.6
13	5.3	e4.0	e3.5	e3.0	e3.0	e3.0	e2.2	9.8	27	21	9.4	5.4
14	5.2	e4.0	e3.5	e3.0	e3.0	e3.0	e2.2	10	25	20	8.9	4.9
15	5.1	e4.0	e3.5	e3.0	e3.0	e3.0	e2.2	8.1	24	18	8.6	4.7
16	5.0	e4.0	e3.5	e3.0	e3.0	e3.0	e2.2	7.9	23	17	8.4	4.6
17	5.1	e4.0	e3.5	e3.0	e3.0	e2.9	e2.2	11	22	16	8.6	4.5
18	5.1	e4.0	e3.5	e3.0	e3.0	e2.8	e2.2	14	21	15	8.8	4.3
19	4.9	e4.0	e3.5	e3.0	e3.1	e2.7	e2.2	17	23	14	8.2	4.2
20	4.8	e4.0	e3.5	e3.0	e3.2	e2.7	e2.2	19	27	13	8.0	4.1
21	4.7	e4.0	e3.4	e3.0	e3.3	e2.5	e2.2	22	32	13	8.2	4.0
22	4.6	e4.0	e3.3	e3.0	e3.3	e2.6	2.3	21	37	13	8.0	4.0
23	4.5	e4.0	e3.2	e3.0	e3.3	e2.8	3.0	18	41	17	7.4	4.1
24	e4.2	e4.0	e3.1	e3.0	e3.3	e2.9	3.5	18	40	15	7.0	4.0
25	e4.0	e4.0	e3.0	e3.0	e3.3	e3.1	3.4	17	41	16	6.9	3.8
26	e4.0	e4.0	e3.0	e3.0	e3.2	e3.3	3.0	20	44	15	6.7	3.7
27	e4.0	e4.0	e3.0	e3.0	e3.1	e3.1	3.0	26	44	12	8.1	3.7
28	e4.0	e4.0	e3.0	e3.0	e3.0	e2.9	3.2	31	43	19	6.7	3.6
29	e4.0	e4.0	e3.0	e3.0	---	e2.8	3.6	36	42	18	6.2	4.1
30	e4.0	e4.0	e3.0	e3.0	---	e2.4	3.9	40	41	15	6.0	4.0
31	e4.0	---	e3.0	e3.0	---	e2.4	---	41	---	14	6.0	---
TOTAL	140.8	120.0	107.2	93.0	86.1	89.9	74.2	455.1	1013	645	293.0	139.1
MEAN	4.54	4.00	3.46	3.00	3.08	2.90	2.47	14.7	33.8	20.8	9.45	4.64
MAX	5.3	4.0	4.0	3.0	3.3	3.3	3.9	41	54	37	17	6.3
MIN	4.0	4.0	3.0	3.0	3.0	2.4	1.9	3.9	21	12	6.0	3.6
AC-FT	279	238	213	184	171	178	147	903	2010	1280	581	276

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1998, BY WATER YEAR (WY)

MEAN	4.08	3.14	2.58	2.18	1.99	2.00	2.81	14.8	48.3	22.7	7.43	4.71
MAX	7.86	5.52	4.33	3.00	3.08	2.90	6.03	28.6	85.1	91.6	20.2	9.64
(WY)	1985	1985	1985	1985	1998	1998	1985	1996	1984	1983	1983	1984
MIN	2.55	1.82	1.38	1.20	1.21	1.10	1.49	4.39	20.5	5.32	3.44	2.59
(WY)	1979	1976	1976	1976	1975	1975	1975	1983	1966	1977	1981	1979

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1966 - 1998	
ANNUAL TOTAL	4831.7		3256.4			
ANNUAL MEAN	13.2		8.92		9.73	
HIGHEST ANNUAL MEAN					18.1	1983
LOWEST ANNUAL MEAN					5.64	1977
HIGHEST DAILY MEAN	100	Jun 22	54	Jun 3	175	Jun 25 1983
LOWEST DAILY MEAN	e2.1	Mar 11	e1.9	Apr 10	1.0	Jan 12 1975
ANNUAL SEVEN-DAY MINIMUM	2.2	Mar 5	2.0	Apr 4	1.1	Feb 24 1975
INSTANTANEOUS PEAK FLOW			75	Jul 10	a241	Jun 30 1984
INSTANTANEOUS PEAK STAGE			5.04	Jul 10	b4.30	Jun 30 1984
ANNUAL RUNOFF (AC-FT)	9580		6460		7050	
10 PERCENT EXCEEDS	43		25		27	
50 PERCENT EXCEEDS	4.0		4.0		3.4	
90 PERCENT EXCEEDS	2.3		3.0		1.9	

e-Estimated.
a-From rating curve extended above 100 ft^3/s.
b-Maximum gage height, 5.44 ft, Jun 19, 1997, present site and datum.

09035900 SOUTH FORK WILLIAMS FORK NEAR LEAL, CO

LOCATION.--Lat 39°47'45", long 106°01'48", in NE¼ sec.17, T.3 S., R.77 W., Grand County, Hydrologic Unit 14010001, on left bank 800 ft upstream from highway bridge, 0.6 mi upstream from mouth, and 1.2 mi southeast of Leal.

DRAINAGE AREA.--27.3 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 8,950 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	e14	e17	e13	e11	e9.0	e9.0	15	121	118	51	21
2	14	e14	e17	e13	e11	e9.0	e9.0	15	131	109	45	21
3	15	e15	e17	e13	e11	e9.0	e9.0	18	140	104	41	19
4	15	e16	e17	e13	e11	e9.0	e9.0	24	128	101	43	18
5	14	e17	e17	e13	e11	e9.0	e9.0	25	107	93	40	17
6	14	e17	e17	e13	e11	e9.0	e9.0	22	96	92	37	17
7	14	e17	e16	e13	e11	e9.0	e9.0	20	89	86	35	16
8	16	e17	e16	e13	e11	e9.0	e9.0	19	86	80	33	16
9	e15	e17	e15	e13	e11	e9.0	e8.8	21	83	83	32	16
10	e15	e17	e15	e13	e11	e9.0	e8.4	25	84	95	33	16
11	e15	e17	e15	e13	e11	e9.0	7.5	30	82	89	32	15
12	e15	e17	e15	e13	e11	e9.0	7.9	28	82	77	31	17
13	e15	e17	e15	e13	e11	e9.0	7.4	36	87	68	29	18
14	e15	e17	e15	e13	e11	e9.0	7.6	42	84	62	28	16
15	e15	e17	e15	e13	e11	e9.0	7.5	35	81	56	27	16
16	e15	e17	e15	e13	e11	e9.0	e7.6	34	75	51	26	16
17	e15	e17	e15	e13	e11	e9.0	7.6	43	81	48	26	15
18	e15	e17	e15	e13	e11	e9.0	7.6	54	79	44	28	15
19	e15	e17	e15	e13	e11	e9.0	7.6	58	79	41	25	14
20	e14	e17	e15	e13	e10	e9.0	7.4	67	93	39	25	14
21	e14	e17	e14	e13	e10	e9.0	7.6	75	104	39	25	14
22	e14	e17	e14	e13	e10	e9.0	8.0	72	113	41	26	14
23	e13	e17	e14	e13	e9.8	e9.0	9.6	60	120	52	23	14
24	e13	e17	e13	e13	e9.6	e9.0	12	57	117	48	22	14
25	e13	e17	e13	e13	e9.4	e9.6	12	57	116	51	22	13
26	e13	e17	e13	e13	e9.2	e10	11	68	123	49	22	13
27	e13	e17	e13	e12	e9.0	e11	11	80	125	40	23	13
28	e13	e17	e13	e12	e9.0	e11	12	95	124	52	21	13
29	e13	e17	e13	e12	---	e10	13	105	122	57	19	13
30	e13	e17	e13	e11	---	e9.6	14	114	123	46	19	13
31	e13	---	e13	e11	---	e9.2	---	114	---	43	18	---
TOTAL	441	501	460	396	295.0	286.4	275.1	1528	3075	2054	907	467
MEAN	14.2	16.7	14.8	12.8	10.5	9.24	9.17	49.3	103	66.3	29.3	15.6
MAX	16	17	17	13	11	11	14	114	140	118	51	21
MIN	13	14	13	11	9.0	9.0	7.4	15	75	39	18	13
AC-FT	875	994	912	785	585	568	546	3030	6100	4070	1800	926

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1998, BY WATER YEAR (WY)

MEAN	13.6	11.0	9.33	7.72	7.28	7.33	11.4	56.9	160	74.6	26.6	16.8
MAX	24.0	16.7	21.1	12.8	11.4	11.5	25.0	118	243	215	63.3	32.3
(WY)	1985	1998	1986	1998	1996	1996	1971	1996	1984	1983	1983	1984
MIN	8.94	3.71	3.46	2.95	2.90	3.19	4.47	18.4	78.9	24.0	12.0	10.1
(WY)	1970	1967	1967	1967	1967	1967	1967	1995	1977	1966	1966	1966

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1966 - 1998	
ANNUAL TOTAL	16500.4		10685.5			
ANNUAL MEAN	45.2		29.3		33.5	
HIGHEST ANNUAL MEAN					54.8	1984
LOWEST ANNUAL MEAN					20.2	1977
HIGHEST DAILY MEAN	343	Jun 20	140	Jun 3	404	Jun 17 1995
LOWEST DAILY MEAN	e9.4	Mar 11	a7.4	Apr 13	2.6	Mar 6 1967
ANNUAL SEVEN-DAY MINIMUM	9.5	Mar 5	7.6	Apr 13	2.8	Feb 28 1967
INSTANTANEOUS PEAK FLOW			b172	Jun 2	c574	Jun 17 1995
INSTANTANEOUS PEAK STAGE			b3.31	Jun 2	d4.17	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	32730		21190		24300	
10 PERCENT EXCEEDS	127		83		97	
50 PERCENT EXCEEDS	17		15		13	
90 PERCENT EXCEEDS	9.5		9.0		6.5	

e-Estimated.
a-Also occurred Apr 20.
b-Also occurred Jun 3.
c-From rating curve extended above 256 ft^3/s.
d-Maximum gage height, 4.22 ft, Nov 22, 1979, backwater from ice.

09036000 WILLIAMS FORK NEAR LEAL, CO

LOCATION.--Lat 39°50'02", long 106°03'21", in sec.31, T.2 S., R.77 W., Grand County, Hydrologic Unit 14010001, on right bank at downstream side of bridge, 100 ft downstream from Kinney Creek, and 1.7 mi northwest of Leal.

DRAINAGE AREA.--89.5 mi^2.

PERIOD OF RECORD.--July 1933 to current year. Records since May 10, 1940, equivalent to earlier records if diversion to August P. Gumlick Tunnel is added to flow past station. Prior to October 1958, published as Williams River near Leal.

REVISED RECORDS.--WSP 1733: 1951. WSP 2124: Drainage area. WRD CO. 1973: 1972.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,790 ft above sea level, from topographic map. Prior to Aug. 16, 1953, at site 15 ft downstream at present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversion upstream from station through August P. Gumlick Tunnel (see table below for figures of diversion). Diversions for irrigation of about 200 acres of hay meadows upstream from station and about 40 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	39	41	29	e24	e23	24	60	403	416	124	52
2	50	37	43	28	e24	22	27	59	440	388	110	55
3	52	34	e43	28	24	22	24	69	475	365	110	58
4	52	39	e43	28	23	e22	27	85	449	356	106	55
5	49	39	e40	29	24	21	28	92	373	331	101	46
6	48	40	36	e28	24	21	27	83	318	323	90	43
7	46	40	36	e27	24	21	26	76	289	303	84	42
8	48	40	37	e26	24	e22	26	70	274	278	79	41
9	46	40	38	e26	24	21	25	75	263	285	77	43
10	51	39	39	25	e25	e22	25	86	264	320	88	41
11	50	40	e40	25	e25	e22	30	106	258	318	79	41
12	50	42	e40	26	24	21	34	92	256	264	75	45
13	48	40	e39	25	e24	21	30	117	286	238	69	48
14	47	e40	36	e26	24	21	28	144	268	217	69	43
15	49	e40	36	e26	23	22	27	115	259	199	68	42
16	47	e40	36	e26	23	22	26	106	244	167	64	40
17	45	41	35	26	23	22	26	136	255	121	68	39
18	44	41	36	24	23	22	26	170	247	112	74	38
19	42	40	36	26	24	20	26	187	246	104	76	36
20	40	42	e35	e26	e24	20	27	210	296	106	76	35
21	38	41	e33	e26	23	19	27	234	328	97	68	35
22	37	43	29	e26	22	22	31	230	363	98	70	38
23	36	e41	e28	25	22	22	40	196	396	129	59	41
24	37	41	e28	25	23	24	52	192	398	137	57	42
25	30	40	e28	25	22	27	52	185	391	184	58	40
26	32	40	e27	25	22	30	47	218	418	182	58	39
27	33	42	e27	24	e23	28	45	250	432	148	64	39
28	34	42	27	e25	e23	26	49	295	431	160	55	39
29	33	41	28	e24	---	26	54	339	425	145	50	40
30	32	e41	28	24	---	23	59	369	427	113	48	42
31	35	---	29	24	---	24	---	377	---	102	47	---
TOTAL	1333	1205	1077	803	657	701	995	5023	10172	6706	2321	1278
MEAN	43.0	40.2	34.7	25.9	23.5	22.6	33.2	162	339	216	74.9	42.6
MAX	52	43	43	29	25	30	59	377	475	416	124	58
MIN	30	34	27	24	22	19	24	59	244	97	47	35
AC-FT	2640	2390	2140	1590	1300	1390	1970	9960	20180	13300	4600	2530
a	0	0	0	0	0	0	0	0	0	994	1182	331

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1998, BY WATER YEAR (WY)

MEAN	38.3	30.0	24.3	20.9	19.3	19.3	36.4	177	487	220	71.3	44.4
MAX	102	52.6	35.1	28.6	26.4	24.5	91.3	392	966	765	198	98.4
(WY)	1962	1962	1985	1985	1962	1946	1946	1996	1938	1983	1983	1961
MIN	18.5	18.7	14.4	14.1	14.0	14.1	19.8	76.1	119	59.6	29.0	24.2
(WY)	1964	1964	1964	1964	1964	1964	1944	1968	1954	1934	1954	1964

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1934 - 1998	
ANNUAL TOTAL	51200		32271			
ANNUAL MEAN	140		b91.9		b106	
HIGHEST ANNUAL MEAN					c176	1984
LOWEST ANNUAL MEAN					45.4	1954
HIGHEST DAILY MEAN	1030	Jun 20	475	Jun 3	1430	Jun 21 1938
LOWEST DAILY MEAN	e22	Mar 5	19	Mar 21	d13	Dec 28 1939
ANNUAL SEVEN-DAY MINIMUM	23	Feb 27	21	Mar 15	14	Dec 23 1939
INSTANTANEOUS PEAK FLOW			551	Jun 3	1720	Jun 10 1952
INSTANTANEOUS PEAK STAGE			2.81	Jun 3	f4.23	Jun 10 1952
ANNUAL RUNOFF (AC-FT)	101600		b66580		b76800	
10 PERCENT EXCEEDS	434		266		276	
50 PERCENT EXCEEDS	43		41		34	
90 PERCENT EXCEEDS	24		23		18	

e-Estimated.
a-Diversions in acre-feet, through August P. Gumlick Tunnel, provided by Denver Water Board.
b-Includes diversions through August P. Gumlick Tunnel, since May 10, 1940.
c-Does not include diversions through August P. Gumlick Tunnel.
d-Also occurred at times in 1963, 1964, and 1967.
f-Maximum gage height, 5.46 ft, Jun 29, 1971, backwater from log.

09037500 WILLIAMS FORK NEAR PARSHALL, CO

LOCATION.--Lat 40°00'01", long 106°10'45", in SW¼SW¼ 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 mi^2.

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. 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 upstream from station for irrigation of about 1,300 acres upstream from station, and about 2,500 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	61	e60	e50	e46	e43	e45	117	335	308	108	26
2	62	64	e60	e50	e46	e43	e46	111	383	271	110	30
3	65	66	e60	e50	e46	e43	e44	130	421	240	94	31
4	66	71	e60	e50	e46	e43	e45	157	425	234	100	29
5	63	63	e59	e50	e46	e43	e47	156	325	218	96	24
6	61	e60	e58	e50	e46	e43	e46	134	261	195	79	18
7	60	e60	e58	e50	e46	e43	e45	125	210	182	71	16
8	67	e60	e57	e50	e46	e43	e45	109	187	153	66	15
9	65	e60	e57	e50	e46	e43	e45	109	165	149	62	15
10	72	e60	e56	e50	e46	e43	45	117	159	184	70	14
11	72	e60	e56	e50	e46	e43	54	143	152	237	66	14
12	78	e60	e56	e50	e46	e43	65	128	134	156	59	15
13	70	e60	e56	e50	e46	e43	59	135	168	121	54	24
14	70	e60	e56	e50	e46	e43	55	178	153	94	51	18
15	78	e60	e56	e50	e46	e43	50	151	145	71	52	15
16	77	e60	e56	e50	e46	e43	50	130	124	51	48	15
17	76	e60	e56	e50	e46	e43	49	151	129	32	47	14
18	79	e60	e56	e50	e46	e43	49	166	123	22	59	14
19	76	e60	e56	e50	e46	e43	48	182	106	21	55	14
20	74	e60	e56	e50	e46	e43	49	183	163	19	57	14
21	71	e60	e54	e50	e46	e40	51	228	197	18	48	14
22	68	e60	e52	e50	e46	e44	58	227	242	16	54	13
23	68	e60	e52	e50	e46	e45	74	173	285	21	40	14
24	68	e60	e51	e50	e45	e48	99	221	289	59	34	14
25	60	e60	e50	e50	e44	e52	106	284	272	112	35	14
26	63	e60	e50	e50	e43	e56	92	269	303	130	37	13
27	71	e60	e50	e50	e43	e52	87	228	320	104	44	13
28	79	e60	e50	e48	e43	e49	93	267	322	101	36	13
29	73	e60	e50	e47	---	e47	102	320	315	131	30	13
30	68	e60	e50	e46	---	e44	113	356	314	88	27	14
31	66	---	e50	e46	---	e45	---	352	---	73	22	---
TOTAL	2148	1825	1704	1537	1276	1382	1856	5737	7127	3811	1811	510
MEAN	69.3	60.8	55.0	49.6	45.6	44.6	61.9	185	238	123	58.4	17.0
MAX	79	71	60	50	46	56	113	356	425	308	110	31
MIN	60	60	50	46	43	40	44	109	106	16	22	13
AC-FT	4260	3620	3380	3050	2530	2740	3680	11380	14140	7560	3590	1010
a	0	0	0	0	0	0	0	0	0	994	1182	331

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 1998, BY WATER YEAR (WY)

MEAN	60.8	51.3	42.3	37.1	35.2	39.7	80.4	271	564	221	88.8	63.4
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	19.4	13.8	11.1
(WY)	1956	1982	1950	1964	1964	1971	1981	1963	1954	1963	1988	1966

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1905 - 1998	
ANNUAL TOTAL	65904		30724			
ANNUAL MEAN	181		b87.7		b135	
HIGHEST ANNUAL MEAN					c248	1984
LOWEST ANNUAL MEAN					c38.8	1963
HIGHEST DAILY MEAN	e1200	Jun 4	425	Jun 4	2520	Jun 14 1918
LOWEST DAILY MEAN	e34	Jan 29	d13	Sep 22	f4.8	May 6 1972
ANNUAL SEVEN-DAY MINIMUM	35	Jan 26	13	Sep 22	5.1	May 6 1972
INSTANTANEOUS PEAK FLOW			504	Jun 4	g2620	Jun 14 1918
INSTANTANEOUS PEAK STAGE			3.93	Jun 4	6.05	Jun 14 1918
ANNUAL RUNOFF (AC-FT)	130700		b63540		b97810	
10 PERCENT EXCEEDS	600		183		346	
50 PERCENT EXCEEDS	65		56		53	
90 PERCENT EXCEEDS	39		30		30	

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 Sep 26-29.
f-Also occurred May 8-10, 1972.
g-Site and datum then in use, from rating curve extended above 1400 ft^3/s.

09038000 WILLIAMS FORK RESERVOIR NEAR PARSHALL, CO

LOCATION.--Lat 40°02'06", long 106°12'17", in SE1/4 sec.23, T.1 N., R.79 W., Grand County, Hydrologic Unit 14010001, at dam on Williams Fork, 2.1 mi upstream from mouth, and 2.2 mi southwest of Parshall.

DRAINAGE AREA.--230 mi^2.

PERIOD OF RECORD.--April 1939 to current year. Prior to October 1948, published in WSP 1313.

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Nonrecording gage read once daily. Datum of gage is above sea level, (levels by city engineer of Denver); gage readings have been reduced to elevations above sea level.

REMARKS.--Reservoir is formed by concrete-arch dam completed in October 1939; storage began April 1939; dam was enlarged Dec. 5, 1956 to Apr. 22, 1959. Enlarged capacity, 96,820 acre-ft, between elevations 7,634 ft, invert of outlet, and 7,811 ft, top of radial gates on spillway. No dead storage. Figures given represent usable contents. Reservoir is used for power development and to store water to compensate for water diverted through August P. Gumlick Tunnel. Water is released during periods of low flow in Colorado River to supply decreed prior water rights. Records provided by Denver Board of Water Commissioners.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 97,590 acre-ft, July 13, 1995, elevation, 7,811.47 ft; no contents at times in 1958 (construction) and 1966 (drained for repairs).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 96,660 acre-ft, July 29, elevation, 7,810.90 ft; minimum, 66,620 acre-ft, May 13-15, elevation, 7,789.51 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	7,806.71	90,070	-
Oct. 31	7,805.16	87,740	-2,330
Nov. 30	7,802.67	84,090	-3,650
Dec. 31	7,800.20	80,590	-3,500
CAL YR 1997			+9,960
Jan. 31	7,797.66	77,110	-3,480
Feb. 28	7,795.08	73,680	-3,430
Mar. 31	7,792.76	70,680	-3,000
Apr. 30	7,791.10	68,590	-2,090
May 31	7,792.59	70,460	+1,870
June 30	7,804.48	86,730	+16,270
July 31	7,810.89	96,640	+9,910
Aug. 31	7,809.56	94,500	-2,140
Sept. 30	7,807.33	91,020	-3,480
WTR YR 1998			+950

09038500 WILLIAMS FORK BELOW WILLIAMS FORK RESERVOIR, CO

LOCATION.--Lat 40°02'07", long 106°12'17", in NW¼SE¼ 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 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	123	118	109	109	113	113	181	211	15	159	79
2	104	125	115	109	109	113	113	181	79	16	158	80
3	103	125	111	109	109	113	113	181	80	16	158	80
4	103	125	109	109	109	113	113	201	75	15	158	79
5	104	125	109	109	109	113	113	219	50	16	158	79
6	104	124	109	109	109	113	88	221	45	16	158	78
7	104	124	109	109	109	113	74	221	45	15	133	78
8	104	124	109	109	109	113	74	221	36	15	108	78
9	103	124	109	109	110	113	75	221	25	15	108	78
10	104	125	109	109	110	113	75	221	23	15	101	78
11	104	125	109	109	111	112	75	221	23	15	86	78
12	104	125	109	109	111	112	75	221	23	15	86	78
13	105	125	109	109	111	111	75	221	23	18	86	78
14	106	125	109	109	110	111	75	192	23	20	87	78
15	106	125	109	109	111	111	75	163	21	20	86	78
16	105	125	109	109	111	111	75	114	18	20	86	78
17	116	125	109	109	110	111	75	104	18	20	87	78
18	122	125	109	109	110	111	75	104	16	20	88	80
19	122	125	109	108	110	111	75	104	15	20	88	81
20	121	125	109	108	111	111	96	105	15	20	87	81
21	121	125	109	109	111	111	132	105	15	20	81	81
22	121	125	109	109	111	111	149	105	15	20	78	81
23	123	125	109	109	111	111	149	105	15	20	78	81
24	123	125	109	109	111	111	150	105	15	21	78	81
25	123	125	109	109	111	112	150	105	14	21	79	81
26	123	125	109	109	113	113	150	105	14	27	80	81
27	123	125	109	109	113	113	150	106	14	51	80	81
28	123	125	109	109	113	113	167	106	15	78	80	81
29	123	125	109	109	---	113	181	104	15	98	80	81
30	123	125	109	109	---	113	181	176	15	135	80	81
31	123	---	109	109	---	113	---	282	---	159	80	---
TOTAL	3497	3744	3396	3377	3092	3476	3281	5021	1011	992	3140	2385
MEAN	113	125	110	109	110	112	109	162	33.7	32.0	101	79.5
MAX	123	125	118	109	113	113	181	282	211	159	159	81
MIN	103	123	109	108	109	111	74	104	14	15	78	78
AC-FT	6940	7430	6740	6700	6130	6890	6510	9960	2010	1970	6230	4730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1998, BY WATER YEAR (WY)

MEAN	129	133	105	104	91.1	93.7	77.0	119	207	170	153	153
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 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1949 - 1998	
ANNUAL TOTAL	67186		36412			
ANNUAL MEAN	184		a101		a131	
HIGHEST ANNUAL MEAN					254	1984
LOWEST ANNUAL MEAN					39.1	1959
HIGHEST DAILY MEAN	1060	Jun 22	282	May 31	1860	Jun 28 1983
LOWEST DAILY MEAN	b100	Sep 7	c14	Jun 25	d.30	May 14 1963
ANNUAL SEVEN-DAY MINIMUM	100	Sep 5	15	Jun 21	.54	Apr 27 1959
INSTANTANEOUS PEAK FLOW			300	May 31	f2640	Jun 20 1953
INSTANTANEOUS PEAK STAGE			2.43	May 31	8.50	Jun 20 1953
ANNUAL RUNOFF (AC-FT)	133300		a73170		a94910	
10 PERCENT EXCEEDS	330		132		252	
50 PERCENT EXCEEDS	113		109		110	
90 PERCENT EXCEEDS	104		20		16	

a-Adjusted for storage at Williams Fork Reservoir.
b-Also occurred Sep 8-11.
c-Also occurred Jun 26 and 27.
d-No flow for part of Apr 29, 1975.
f-Site and datum then in use, from rating curve extended above 1500 ft^3/s.

09041000 MUDDY CREEK NEAR KREMMLING, CO

LOCATION.--Lat 40°17'37", long 106°28'59", in NE¼SE¼ sec. 20, T.4 N., R.81 W., Grand County, Hydrologic Unit 14010001, on right bank 0.2 mi upstream from Lindsey Creek, 0.5 mi upstream from bridge on U.S. Highway 40, 3 mi downstream from Albert Creek, and 17 mi northwest of Kremmling.

DRAINAGE AREA.--87.4 mi^2.

PERIOD OF RECORD.--September 1937 to September 1943, October 1955 to September 1971, October 1993 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Elevation of gage is 7,856 ft above sea level, from topographic map. Prior to Oct. 1, 1955 non-recording gage at site 3 mi upstream at different datum. Prior to Oct. 1, 1993, at site 100 ft upstream at different datum.

REMARKS.--Records good except for estimated discharges, which are poor. Some regulations by Barber Reservoir (capacity, 4,290 acre-ft). Diversions for irrigation of about 900 acres above 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	e24	e17	e14	e13	e11	e40	328	283	27	21	11
2	29	e22	e17	e14	e13	e11	e35	349	271	28	27	11
3	54	e22	e17	e14	e12	e11	e35	387	252	27	18	12
4	41	e22	e16	e14	e11	e11	e40	401	240	27	18	15
5	32	e22	e15	e14	e12	e10	e46	408	228	30	17	13
6	28	e22	e16	e14	e12	e10	e46	385	189	28	15	10
7	26	e22	e16	e14	e12	e10	e46	439	161	25	14	9.0
8	29	e22	e16	e14	e12	e10	e41	394	154	24	12	9.0
9	30	e22	e15	e14	e12	e10	e57	375	125	26	12	9.1
10	34	e20	e15	e14	e11	e10	64	403	126	28	12	9.1
11	30	e20	e15	e14	e11	e10	103	442	119	27	12	9.5
12	40	e20	e15	e14	e11	e10	119	382	106	22	11	8.1
13	35	e19	e15	e14	e11	e12	82	395	93	21	11	8.5
14	33	e19	e15	e14	e11	e13	73	420	130	19	11	8.5
15	39	e19	e15	e14	e11	e14	64	369	122	20	10	7.2
16	39	e19	e15	e14	e11	e15	59	338	80	19	10	6.6
17	38	e19	e15	e14	e11	e18	55	358	87	17	10	6.7
18	40	e19	e15	e15	e11	e23	57	401	102	17	11	6.7
19	38	e19	e15	e15	e11	e40	54	423	110	17	13	6.3
20	35	e19	e15	e15	e11	e36	61	408	78	16	14	6.1
21	32	e19	e15	e15	e11	e40	83	442	79	18	13	6.1
22	30	e20	e15	e15	e11	e36	116	419	70	19	12	6.4
23	29	e20	e14	e14	e11	e36	162	352	58	22	12	7.8
24	30	e20	e14	e13	e11	e48	229	326	52	27	12	8.1
25	26	e20	e14	e14	e11	e58	232	312	50	21	11	7.8
26	e26	e20	e14	e14	e11	e70	228	318	47	18	11	7.4
27	e26	e19	e14	e14	e11	e80	258	322	45	14	11	7.1
28	e26	e18	e14	e13	e11	e70	273	352	39	14	11	6.9
29	e26	e17	e14	e14	---	e60	285	344	35	15	11	7.1
30	e26	e16	e14	e13	---	e50	309	322	32	18	11	7.7
31	e26	---	e14	e13	---	e45	---	301	---	20	11	---
TOTAL	1003	601	466	435	318	888	3352	11615	3563	671	405	254.8
MEAN	32.4	20.0	15.0	14.0	11.4	28.6	112	375	119	21.6	13.1	8.49
MAX	54	24	17	15	13	80	309	442	283	30	27	15
MIN	26	16	14	13	11	10	35	301	32	14	10	6.1
AC-FT	1990	1190	924	863	631	1760	6650	23040	7070	1330	803	505

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1998, BY WATER YEAR (WY)

MEAN	9.28	8.20	6.77	5.89	5.83	10.7	84.9	316	180	25.3	8.59	7.02
MAX	32.4	26.7	15.0	14.0	11.4	46.5	233	608	481	104	28.2	36.2
(WY)	1998	1960	1998	1998	1998	1960	1962	1996	1957	1957	1957	1997
MIN	3.00	4.00	3.00	3.00	3.00	3.50	17.0	175	31.5	3.25	.48	1.22
(WY)	1941	1941	1941	1938	1938	1941	1964	1966	1966	1939	1940	1942

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1938 - 1998	
ANNUAL TOTAL	35904.7		23571.8			
ANNUAL MEAN	98.4		64.6		55.9	
HIGHEST ANNUAL MEAN					95.3	1997
LOWEST ANNUAL MEAN					28.3	1966
HIGHEST DAILY MEAN	819	May 17	a442	May 11	964	May 18 1996
LOWEST DAILY MEAN	9.4	Sep 16	b6.1	Sep 20	c.10	Aug 19 1940
ANNUAL SEVEN-DAY MINIMUM	10	Jan 29	6.4	Sep 16	.20	Aug 18 1940
INSTANTANEOUS PEAK FLOW			506	May 21	1120	May 18 1996
INSTANTANEOUS PEAK STAGE			7.25	May 21	8.54	May 18 1996
ANNUAL RUNOFF (AC-FT)	71220		46750		40520	
10 PERCENT EXCEEDS	378		263		204	
50 PERCENT EXCEEDS	21		19		8.4	
90 PERCENT EXCEEDS	10		11		3.4	

e-Estimated.
a-Also occurred May 21.
b-Also occurred Sep 21.
c-Also occurred Aug 24, 1940.

09041090 MUDDY CREEK ABOVE ANTELOPE CREEK NEAR KREMMLING, CO

LOCATION.--Lat 40°12'09", long 106°25'19", in SE¼SE¼ 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 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	32	e24	e21	e19	e18	56	462	303	17	18	10
2	34	33	e24	e21	e19	e18	53	480	293	15	23	11
3	54	32	e23	e21	e19	e18	54	565	255	16	21	10
4	52	33	e23	e21	e19	e18	67	585	236	16	19	12
5	38	28	e23	e21	e19	e18	71	599	228	19	21	12
6	34	27	e23	e21	e19	e17	71	542	197	22	18	9.7
7	32	26	e23	e21	e19	e17	60	634	157	19	17	8.6
8	32	26	e23	e21	e19	e17	69	576	157	14	16	8.4
9	35	26	e23	e21	e19	e17	71	547	142	12	16	8.4
10	38	22	e22	e20	e19	e17	77	545	136	15	15	8.2
11	34	24	e22	e20	e19	e19	117	595	137	17	15	8.9
12	42	24	e22	e20	e19	e20	163	504	125	12	15	9.6
13	38	23	e22	e20	e19	e21	117	498	108	15	14	8.9
14	38	e23	e21	e20	e19	e23	103	549	139	17	13	9.3
15	45	e24	e21	e20	e19	e40	89	483	138	16	13	8.2
16	46	e25	e21	e20	e19	e50	82	425	98	13	12	7.6
17	45	e25	e21	e20	e19	e60	80	443	103	9.6	12	7.4
18	46	e26	e21	e20	e19	e58	78	494	117	8.2	13	7.4
19	43	e25	e21	e20	e19	e60	74	526	121	8.2	14	7.3
20	40	e25	e21	e20	e18	e60	74	503	88	9.6	15	7.0
21	37	e26	e21	e20	e18	e70	95	526	89	9.0	14	7.0
22	35	e26	e21	e20	e18	e80	134	492	85	10	14	7.2
23	33	e27	e21	e20	e18	e100	188	414	67	12	13	7.7
24	35	e27	e21	e20	e18	e120	278	378	54	22	12	8.9
25	e33	e27	e21	e20	e18	e130	298	350	42	21	12	8.4
26	e38	e27	e21	e20	e18	e120	284	365	36	14	12	7.9
27	e37	e26	e21	e20	e18	e110	309	362	36	12	12	7.4
28	e35	e26	e21	e20	e18	e110	341	396	29	12	11	7.2
29	e33	e25	e21	e20	---	e100	363	383	26	13	11	7.2
30	32	e25	e21	e20	---	70	403	355	18	13	11	7.8
31	33	---	e21	e20	---	58	---	331	---	18	10	---
TOTAL	1183	791	675	629	523	1654	4319	14907	3760	446.6	452	256.6
MEAN	38.2	26.4	21.8	20.3	18.7	53.4	144	481	125	14.4	14.6	8.55
MAX	54	33	24	21	19	130	403	634	303	22	23	12
MIN	32	22	21	20	18	17	53	331	18	8.2	10	7.0
AC-FT	2350	1570	1340	1250	1040	3280	8570	29570	7460	886	897	509

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1998, BY WATER YEAR (WY)

MEAN	10.5	9.90	8.87	8.57	8.68	19.1	96.1	392	181	17.2	12.7	10.8
MAX	38.2	26.4	21.8	20.3	18.7	53.4	151	659	366	52.2	27.5	45.2
(WY)	1998	1998	1998	1998	1998	1998	1996	1997	1995	1995	1997	1997
MIN	4.32	4.36	2.82	2.68	3.00	9.92	40.8	190	32.2	2.69	5.14	3.51
(WY)	1993	1995	1991	1991	1991	1991	1995	1992	1992	1994	1994	1994

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1990 - 1998	
ANNUAL TOTAL	41484		29596.2			
ANNUAL MEAN	114		81.1		68.0	
HIGHEST ANNUAL MEAN					109	1997
LOWEST ANNUAL MEAN					29.0	1992
HIGHEST DAILY MEAN	897	May 17	634	May 7	908	May 18 1996
LOWEST DAILY MEAN	a,e10	Jan 29	b7.0	Sep 20	.96	Jul 25 1994
ANNUAL SEVEN-DAY MINIMUM	10	Jan 29	7.3	Sep 16	1.2	Jul 22 1994
INSTANTANEOUS PEAK FLOW			711	May 7	955	Jun 20 1994
INSTANTANEOUS PEAK STAGE			6.43	May 7	c7.36	Jun 20 1994
ANNUAL RUNOFF (AC-FT)	82280		58700		49280	
10 PERCENT EXCEEDS	460		300		224	
50 PERCENT EXCEEDS	25		22		11	
90 PERCENT EXCEEDS	11		11		3.9	

e-Estimated.
a-Also occurred Jan 30 to Feb 26.
b-Also occurred Sep 21.
c-Maximum gage height, 7.43 ft, May 18, 1996 and May 17, 1997.

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

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 (revised).

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

REMARKS.--Records for specific conductance are good, except for Sept. 9-22, which are poor. Records for water temperature are good, except for Apr. 8 to May 20, which are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,010 microsiemens, Aug. 19, 1997; minimum, 88 microsiemens, May 20, 1994.
WATER TEMPERATURE: Maximum, 26.4°C, July 14, 1991; minimum, 0.0°C, on many days during winter.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 762 microsiemens, July 7; minimum daily, 137 microsiemens, May 29.
WATER TEMPERATURE: Maximum 25.0°C, July 19, 20; minimum, 0.3°C, Apr. 4, 5, and 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	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)
OCT										
16...	1030	47	297	8.4	2.7	4.6	10.0	120	33	9.6
NOV										
26...	0940	27	415	8.4	0.2	4.3	11.7	180	47	15
DEC										
16...	1000	21	417	8.3	0.1	4.0	10.6	180	49	15
JAN										
22...	1130	16	438	7.9	0.1	5.1	10.2	190	49	16
FEB										
19...	1000	19	444	8.2	0.5	6.0	10.2	190	50	16
MAR										
25...	1015	109	407	8.1	1.0	42	10.1	150	38	14
APR										
21...	1400	81	576	8.6	9.0	32	9.1	240	63	19
MAY										
20...	1600	455	190	8.2	9.4	41	8.5	75	22	4.8
JUN										
09...	1415	143	298	8.4	14.0	8.3	8.3	120	32	9.7
JUL										
22...	1245	10	687	8.2	20.0	2.9	7.1	330	92	24
AUG										
11...	1335	16	473	8.5	19.3	7.6	--	210	55	17
SEP										
09...	1300	8.5	448	8.5	19.6	4.5	6.9	190	50	16

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	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)
OCT									
16...	11	16	0.4	1.3	94	51	1.5	0.1	9.7
NOV									
26...	17	17	0.6	1.6	138	79	1.8	0.1	10
DEC									
16...	17	17	0.5	1.5	148	72	1.6	0.2	11
JAN									
22...	18	17	0.6	1.6	151	76	1.7	0.2	11
FEB									
19...	19	17	0.6	1.7	152	78	2.1	0.2	11
MAR									
25...	18	19	0.6	8.4	114	92	4.4	0.1	6.7
APR									
21...	22	17	0.6	2.3	177	120	3.0	0.2	9.4
MAY									
20...	5.0	12	0.3	1.1	68	22	0.5	<0.1	8.4
JUN									
09...	12	17	0.5	1.3	88	57	1.0	<0.1	9.3
JUL									
22...	24	14	0.6	1.8	258	120	1.6	0.2	9.7
AUG									
11...	19	16	0.6	2.1	157	92	2.0	0.2	6.4
SEP									
09...	18	17	0.6	2.3	144	83	1.8	0.2	6.1

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT									
16...	184	173	0.25	23.1	5	<0.01	<0.05	<0.01	--
NOV									
26...	267	254	0.36	19.8	--	<0.01	<0.05	<0.02	--
DEC									
16...	269	257	0.37	15.5	15	<0.01	0.06	<0.02	--
JAN									
22...	283	265	0.38	12.2	--	0.02	0.11	<0.02	--
FEB									
19...	280	270	0.38	14.0	--	<0.01	0.12	<0.02	--
MAR									
25...	283	253	0.38	83.3	--	0.03	0.23	0.72	1.8
APR									
21...	374	350	0.51	81.3	--	<0.01	0.05	0.03	0.49
MAY									
20...	119	105	0.16	146	126	<0.01	0.08	0.05	0.49
JUN									
09...	192	176	0.26	74.1	--	0.01	0.06	0.03	0.36
JUL									
22...	459	425	0.62	12.9	7	<0.01	<0.05	0.03	0.57
AUG									
11...	303	288	0.41	13.2	19	<0.01	<0.05	0.07	0.29
SEP									
09...	283	263	0.38	6.49	--	<0.01	<0.05	<0.02	--

DATE	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)
OCT									
16...	--	<0.2	<0.2	--	<0.01	<0.01	<0.01	4.9	<0.2
NOV									
26...	--	0.2	0.1	--	<0.01	<0.01	0.03	--	--
DEC									
16...	--	0.2	0.2	0.27	<0.01	<0.01	0.02	4.3	<0.2
JAN									
22...	--	0.2	0.2	0.34	<0.01	<0.01	<0.01	--	--
FEB									
19...	--	0.3	0.2	0.39	0.01	<0.01	0.02	--	--
MAR									
25...	1.3	2.5	2.0	2.7	0.51	0.32	0.26	--	--
APR									
21...	0.33	0.5	0.4	0.57	0.04	<0.01	0.02	--	--
MAY									
20...	0.16	0.5	0.2	0.61	0.17	0.11	0.02	6.1	<0.2
JUN									
09...	0.30	0.4	0.3	0.46	0.05	<0.01	<0.01	--	--
JUL									
22...	0.47	0.6	0.5	--	0.05	0.01	0.01	7.9	0.2
AUG									
11...	0.17	0.4	0.2	--	<0.01	<0.01	0.01	5.1	<0.2
SEP									
09...	--	0.4	0.3	--	0.01	<0.01	0.01	--	--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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)	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)
OCT 16...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 26...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 16...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 19...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 25...	--	--	--	--	--	--	--	--	--	--	--	--
APR 02...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 20...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 09...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 22...	90	1	<1	<100	94	<10	71.9	<1	<1	<1	<1	<1
AUG 11...	190	1	<1	<100	69	<10	53.9	<1	<1	<1	<1	<1
SEP 09...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	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)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)
OCT 16...	--	--	480	66	--	--	--	20	12	--	--
NOV 26...	--	--	370	39	--	--	--	20	16	--	--
DEC 16...	--	--	400	28	--	--	--	20	18	--	--
JAN 22...	--	--	470	33	--	--	--	30	16	--	--
FEB 19...	--	--	500	34	--	--	--	30	18	--	--
MAR 25...	--	--	3000	150	--	--	--	130	68	--	--
APR 21...	--	--	1600	11	--	--	--	60	29	--	--
MAY 20...	--	--	2500	42	--	--	--	70	9	--	--
JUN 09...	--	--	650	71	--	--	--	30	22	--	--
JUL 22...	1	1	330	43	<1	<1	30	80	68	<0.1	<0.1
AUG 11...	1	<1	390	17	<1	<1	20	40	29	<0.1	<0.1
SEP 09...	--	--	240	18	--	--	--	40	20	--	--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT 16...	--	--	--	--	--	--	--	--	--	--	--
NOV 26...	--	--	--	--	--	--	--	--	--	--	--
DEC 16...	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	--	--	--	--	--	--	--	--	--	--	--
FEB 19...	--	--	--	--	--	--	--	--	--	--	--
MAR 25...	--	--	--	--	--	--	--	--	--	--	--
APR 02...	--	--	--	--	--	--	--	--	--	--	--
MAY 20...	--	--	--	--	--	--	--	--	--	--	--
JUN 09...	--	--	--	--	--	--	--	--	--	--	--
JUL 22...	2.9	2.8	3	2	<1	<1	<1	<1	750	<10	<20
AUG 11...	2.8	2.2	3	2	<1	<1	<1	<1	520	<10	<20
SEP 09...	--	--	--	--	--	--	--	--	--	--	--

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT 16...	1010	46	10.4	1.3
NOV 26...	0930	27	7.8	0.58
DEC 16...	0945	21	8.3	0.48
JAN 22...	1100	16	11.0	0.48
FEB 19...	1040	19	14.4	0.72
MAR 25...	1005	110	168	49
APR 02...	1220	45	83.1	10
21...	1350	81	73.2	16
MAY 19...	1430	500	189	253
20...	1620	450	165	199
JUN 09...	1620	140	37.9	15
JUL 22...	1345	10	25.6	0.72
AUG 11...	1400	16.1	17.5	0.76
SEP 09...	1100	8.5	12.0	0.28

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

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	331	321	325	---	---	---	---	---	---	---	---	---
2	341	331	337	---	---	---	---	---	---	---	---	---
3	359	250	323	---	---	---	---	---	---	---	---	---
4	300	243	264	---	---	---	---	---	---	---	---	---
5	322	299	312	---	---	---	---	---	---	---	---	---
6	336	322	330	---	---	---	---	---	---	---	---	---
7	344	332	340	---	---	---	---	---	---	---	---	---
8	383	342	363	---	---	---	---	---	---	---	---	---
9	362	329	340	---	---	---	---	---	---	---	---	---
10	337	300	323	---	---	---	---	---	---	---	---	---
11	327	301	319	---	---	---	---	---	---	---	---	---
12	329	281	305	---	---	---	---	---	---	---	---	---
13	339	284	304	---	---	---	---	---	---	---	---	---
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
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	321	257	301
2	---	---	---	---	---	---	---	---	---	296	257	288
3	---	---	---	---	---	---	571	513	543	---	---	---
4	---	---	---	---	---	---	575	522	552	267	248	256
5	---	---	---	---	---	---	577	543	566	259	242	250
6	---	---	---	---	---	---	573	536	556	261	244	253
7	---	---	---	---	---	---	571	534	558	318	270	286
8	---	---	---	---	---	---	---	---	---	283	248	267
9	---	---	---	---	---	---	569	548	556	264	239	253
10	---	---	---	---	---	---	601	542	560	264	226	252
11	---	---	---	---	---	---	559	496	531	233	208	222
12	---	---	---	---	---	---	496	432	451	243	221	232
13	---	---	---	---	---	---	517	469	489	225	209	217
14	---	---	---	---	---	---	530	507	515	227	194	207
15	---	---	---	---	---	---	549	530	538	228	207	219
16	---	---	---	---	---	---	596	534	560	236	218	227
17	---	---	---	---	---	---	674	556	588	218	199	208
18	---	---	---	---	---	---	668	589	607	200	173	185
19	---	---	---	---	---	---	596	576	585	184	161	173
20	---	---	---	---	---	---	579	565	572	182	154	167
21	---	---	---	---	---	---	581	539	563	169	154	161
22	---	---	---	---	---	---	540	483	508	175	149	161
23	---	---	---	---	---	---	486	437	455	198	161	182
24	---	---	---	---	---	---	442	369	400	210	177	193
25	---	---	---	---	---	---	378	346	364	212	190	202
26	---	---	---	---	---	---	384	350	368	199	172	186
27	---	---	---	---	---	---	383	355	369	187	157	172
28	---	---	---	---	---	---	392	338	355	174	140	156
29	---	---	---	---	---	---	350	324	337	176	137	157
30	---	---	---	---	---	---	335	309	322	176	146	162
31	---	---	---	---	---	---	---	---	---	188	144	168
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	198	163	181	636	586	614	581	552	566	445	435	440
2	198	167	186	613	585	603	610	493	565	445	437	440
3	196	166	182	603	586	595	493	460	469	444	435	438
4	214	177	191	643	587	621	484	462	474	439	411	424
5	266	213	241	631	610	617	471	450	463	413	390	401
6	248	205	229	665	613	636	472	448	461	422	401	407
7	257	244	251	762	665	706	479	458	468	458	422	436
8	262	239	251	724	692	709	480	456	468	463	458	460
9	299	260	283	724	682	699	496	471	480	462	433	455
10	306	281	290	685	674	679	496	478	486	463	446	451
11	299	275	286	690	668	676	489	474	482	449	422	438
12	319	295	302	697	685	691	485	471	478	529	411	453
13	338	312	321	727	668	684	484	470	478	623	529	568
14	316	266	293	668	650	662	481	462	472	655	584	630
15	325	281	297	654	638	647	476	459	468	---	558	---
16	366	325	355	665	631	645	473	456	464	---	546	---
17	373	352	365	671	636	652	471	456	463	---	551	---
18	391	360	373	697	663	678	477	461	469	592	545	558
19	389	305	348	694	669	679	521	470	491	599	578	589
20	406	378	392	680	651	667	470	439	452	593	573	583
21	430	396	405	706	654	677	446	441	444	579	559	569
22	464	421	451	702	673	686	459	438	451	587	547	562
23	441	421	431	733	695	705	492	458	476	563	546	553
24	466	421	446	717	642	690	514	456	469	581	551	571
25	465	435	448	698	622	655	461	447	452	570	539	557
26	522	439	462	655	613	646	458	446	451	540	513	529
27	518	456	471	613	583	593	459	440	447	518	506	513
28	507	494	500	614	586	596	461	449	453	512	502	506
29	543	495	510	681	595	645	457	441	446	514	489	496
30	594	543	567	665	642	649	446	434	439	500	493	497
31	---	---	---	645	561	605	447	435	439	---	---	---
MONTH	594	163	344	762	561	655	610	434	470	---	390	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	14.5	8.0	11.4	---	---	---	---	---	---	---	---	---
2	14.9	8.9	11.9	---	---	---	---	---	---	---	---	---
3	13.6	10.3	11.7	---	---	---	---	---	---	---	---	---
4	13.2	7.2	10.2	---	---	---	---	---	---	---	---	---
5	13.4	7.1	10.3	---	---	---	---	---	---	---	---	---
6	13.1	7.1	10.2	---	---	---	---	---	---	---	---	---
7	12.3	7.7	10.2	---	---	---	---	---	---	---	---	---
8	10.2	7.1	8.7	---	---	---	---	---	---	---	---	---
9	9.5	3.8	6.8	---	---	---	---	---	---	---	---	---
10	10.6	4.3	7.4	---	---	---	---	---	---	---	---	---
11	10.6	6.4	8.4	---	---	---	---	---	---	---	---	---
12	8.4	3.2	5.8	---	---	---	---	---	---	---	---	---
13	5.7	0.8	3.0	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	8.6	2.6	6.0
2	---	---	---	---	---	---	---	---	---	9.4	3.1	6.5
3	---	---	---	---	---	---	---	---	---	9.3	3.1	6.4
4	---	---	---	---	---	---	7.3	0.3	2.9	9.5	2.7	6.4
5	---	---	---	---	---	---	7.4	0.3	3.2	8.6	3.7	6.1
6	---	---	---	---	---	---	4.2	0.3	2.3	8.3	3.2	5.8
7	---	---	---	---	---	---	7.1	0.5	3.4	9.3	2.8	5.9
8	---	---	---	---	---	---	---	0.9	---	8.5	4.8	6.8
9	---	---	---	---	---	---	7.5	1.4	3.9	8.4	3.5	6.3
10	---	---	---	---	---	---	9.1	1.6	5.1	10.9	4.1	7.6
11	---	---	---	---	---	---	9.9	1.6	5.6	9.6	4.4	7.0
12	---	---	---	---	---	---	6.7	2.2	4.2	9.5	3.3	6.6
13	---	---	---	---	---	---	5.8	1.7	3.7	11.4	4.2	8.0
14	---	---	---	---	---	---	5.3	2.6	4.0	9.9	4.6	6.5
15	---	---	---	---	---	---	6.1	1.7	3.6	7.9	3.8	5.9
16	---	---	---	---	---	---	7.4	1.2	3.8	10.3	3.6	7.1
17	---	---	---	---	---	---	8.1	1.5	4.5	10.8	4.3	7.9
18	---	---	---	---	---	---	9.6	2.7	5.8	11.1	4.5	8.1
19	---	---	---	---	---	---	8.2	3.5	5.7	10.0	4.2	7.6
20	---	---	---	---	---	---	10.7	3.7	6.7	11.3	4.8	8.2
21	---	---	---	---	---	---	11.6	4.5	7.6	10.3	5.6	8.1
22	---	---	---	---	---	---	11.1	3.8	7.5	9.2	4.7	6.9
23	---	---	---	---	---	---	10.5	3.2	7.1	9.9	4.1	7.0
24	---	---	---	---	---	---	8.7	2.7	6.1	8.8	5.3	7.4
25	---	---	---	---	---	---	8.7	2.5	5.8	12.4	5.1	8.5
26	---	---	---	---	---	---	7.7	3.3	5.2	11.3	6.1	9.0
27	---	---	---	---	---	---	8.6	1.9	5.5	12.7	5.7	9.3
28	---	---	---	---	---	---	9.0	2.4	5.9	12.8	6.2	9.7
29	---	---	---	---	---	---	9.1	1.8	5.8	11.2	6.7	9.3
30	---	---	---	---	---	---	9.2	2.3	6.2	13.7	7.2	10.4
31	---	---	---	---	---	---	---	---	---	13.2	7.9	10.6
MONTH	---	---	---	---	---	---	---	---	---	13.7	2.6	7.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.0	8.7	11.7	22.7	14.5	18.8	18.4	14.9	16.8	17.0	14.9	16.1
2	15.8	9.2	12.4	22.5	14.8	19.0	19.6	11.9	15.9	19.5	12.4	15.8
3	15.1	9.5	12.3	21.1	14.7	18.1	18.4	14.6	16.8	20.7	13.6	17.0
4	12.1	7.8	9.4	20.0	14.0	16.8	18.1	14.3	16.4	20.6	14.2	17.5
5	12.0	6.1	8.7	20.8	13.4	17.2	22.0	14.6	18.3	21.3	15.0	18.3
6	12.8	6.4	9.7	21.4	15.2	18.1	21.2	14.9	18.6	23.1	16.1	19.3
7	15.1	8.1	11.6	19.8	14.1	17.2	21.7	14.4	18.3	22.6	15.6	18.9
8	13.0	9.5	11.3	20.1	14.1	17.4	20.5	15.2	18.3	22.2	15.6	18.6
9	16.0	8.2	11.8	19.9	14.3	17.2	21.4	15.7	18.7	21.6	16.2	18.6
10	13.5	9.4	11.6	19.3	15.0	17.2	20.9	15.5	18.3	19.8	14.7	17.4
11	13.5	7.9	10.6	21.5	14.3	17.5	19.9	15.6	18.0	20.2	14.3	17.0
12	16.3	9.0	12.6	22.5	13.6	18.0	19.3	13.8	17.0	18.6	15.5	17.0
13	14.7	11.1	12.8	22.3	14.3	18.4	21.4	14.1	18.0	15.7	13.4	14.6
14	12.3	10.5	11.4	22.4	14.6	18.5	21.7	15.4	18.7	19.1	11.3	14.8
15	13.0	8.2	10.7	22.8	14.0	18.3	22.2	15.8	19.2	20.2	12.6	16.0
16	13.9	10.4	12.0	23.7	14.6	19.0	20.7	16.6	18.7	20.1	13.1	16.3
17	11.3	8.3	9.8	24.4	15.0	19.7	21.2	14.9	18.0	19.1	11.7	15.4
18	10.4	7.7	9.1	24.8	15.9	20.3	20.3	15.7	18.4	18.1	11.4	14.9
19	16.4	6.9	11.2	25.0	16.4	20.5	21.5	15.2	18.4	18.6	12.1	15.1
20	15.6	10.5	13.2	25.0	16.5	20.6	21.5	15.7	18.9	16.4	10.8	13.7
21	15.2	10.8	13.0	24.7	17.2	20.5	19.3	15.5	17.5	15.6	9.9	12.8
22	19.5	10.5	14.6	23.2	17.3	19.8	18.6	14.5	16.5	16.3	8.7	12.6
23	19.3	11.8	15.6	20.7	17.2	19.1	19.4	14.0	17.1	14.2	11.7	12.8
24	18.5	11.5	14.8	21.4	15.9	18.6	20.9	16.1	18.5	15.0	10.3	12.3
25	19.4	10.6	15.0	21.0	16.8	18.7	19.5	15.0	17.6	15.5	9.0	12.0
26	20.5	11.6	16.0	22.6	16.7	19.5	19.1	15.5	17.5	15.7	8.7	11.9
27	21.4	12.3	16.8	23.2	16.6	19.7	21.0	16.0	18.2	15.4	7.8	11.4
28	22.9	12.1	17.4	21.1	17.9	19.3	20.6	13.6	17.2	14.6	7.3	11.0
29	22.8	13.4	18.1	20.0	16.7	18.2	20.2	14.2	17.3	15.4	9.3	12.3
30	22.8	14.1	18.5	20.8	15.4	17.8	20.5	14.2	17.5	17.0	9.6	13.0
31	---	---	---	20.5	14.0	17.3	19.1	15.0	17.0	---	---	---
MONTH	22.9	6.1	12.8	25.0	13.4	18.6	22.2	11.9	17.8	23.1	7.3	15.1

401110106244800 WOLFORD MOUNTAIN RESERVOIR AT INFLOW NEAR KREMMLING, CO

WATER-QUALITY RECORDS

LOCATION.--Lat. 40°11'10", long 106°24'48", in NW¼ NW¼ sec.18, T.2 N, R.81 W., Grand County, Hydrologic Unit 14010001, 5 mi north of Kremmling.

DRAINAGE AREA.--270 mi^2.

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 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT						
15...	1125	0.1	507	8.3	11.2	8.3
15...	1126	5.0	507	8.3	10.6	8.4
JUN						
10...	1140	0.1	356	8.0	13.7	8.0
10...	1141	5.0	350	8.0	12.4	7.7
10...	1142	10	355	7.9	11.9	7.4
JUL						
21...	1113	0.1	532	8.5	19.9	7.9
21...	1114	5.0	571	8.4	19.4	7.9
21...	1115	10	579	8.3	19.0	7.4
AUG						
17...	1130	0.1	557	8.6	20.1	6.9
17...	1131	5.0	560	8.6	19.7	6.9
17...	1132	10	560	8.5	19.3	6.2

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
OCT												
15...	1130	5.0	507	8.3	10.6	2.2	43.0	8.4	240	60	22	21
JUN												
10...	1200	5.0	350	8.0	12.4	6.7	29.0	7.7	150	37	13	14
JUL												
21...	1120	5.0	571	8.4	19.4	1.5	97.0	7.9	250	63	22	21
AUG												
17...	1145	5.0	560	8.6	19.7	2.1	49.0	6.9	240	61	22	22

DATE	SODIUM ADSORPTION RATIO (00931)	SODIUM PERCENT (00932)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT												
15...	0.6	17	2.0	117	160	1.8	0.2	6.0	360	344	--	--
JUN												
10...	0.5	17	1.4	95	80	1.1	0.1	9.2	234	214	--	--
JUL												
21...	0.6	16	2.0	143	140	1.5	0.2	8.2	374	345	--	--
AUG												
17...	0.6	17	2.1	134	140	2.1	0.1	9.1	345	340	0.69	0.44

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)
OCT											
15...	--	<0.02	<0.01	0.2	0.5	<0.05	0.02	<0.01	<0.01	6.5	<0.2
JUN											
10...	--	<0.02	0.08	0.3	0.3	<0.05	0.02	<0.01	<0.01	6.6	<0.2
JUL											
21...	--	<0.02	<0.01	0.3	0.5	<0.05	<0.01	<0.01	0.01	7.1	<0.2
AUG											
17...	0.30	0.02	<0.01	0.3	0.5	0.22	0.01	<0.01	<0.01	6.6	<0.2

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)
OCT										
15...	90	1	<1	<100	60	<10	<1	<1	<1	<1
JUN										
10...	200	<1	<1	<100	48	<10	<1	<1	<1	<1
JUL										
21...	100	<1	1	<100	64	<10	<1	<1	<1	<1
AUG										
17...	100	<1	1	<100	65	<10	<1	<1	<1	<1

DATE	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI) (01132)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
OCT										
15...	<1	<1	1	220	7	<1	<1	20	30	13
JUN										
10...	<1	1	<1	390	56	<1	<1	10	40	25
JUL										
21...	<1	1	<1	100	15	<1	<1	20	40	27
AUG										
17...	<1	2	2	120	<10	<1	<1	20	30	9

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MERCURY DISSOLVED (UG/L AS HG) (71890)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, DISSOLVED (UG/L AS ZN) (01090)
OCT										
15...	<0.1	<0.1	1.6	2	2	1	<1	<1	<10	<3
JUN										
10...	<0.1	<0.1	<1.0	3	<1	<1	<1	<1	<10	<20
JUL										
21...	<0.1	<0.1	1.6	3	1	1	<1	<1	<10	<20
AUG										
17...	<0.1	<0.1	2.7	2	1	1	<1	<1	<10	<20

400841106240600 WOLFORD MOUNTAIN RESERVOIR AT MIDLAKE NEAR KREMMLING, CO

WATER-QUALITY RECORDS

LOCATION.--Lat. 40°08'41", long 106°24'06", in NW¼ NW¼ sec.18, T.2 N, R.80 W., Grand County, Hydrologic Unit 14010001, 5 mi north of Kremmling.

DRAINAGE AREA.--270 mi^2.

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

REMARKS.--Samples were collected near-surface and near-bottom, at Midlake.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT						
15...	1040	0.1	508	7.8	12.4	6.2
15...	1041	5.0	508	7.8	12.4	6.2
15...	1042	10	508	7.8	12.4	6.1
15...	1043	15	508	7.9	12.3	6.1
15...	1044	20	508	7.9	12.3	6.1
15...	1045	25	508	7.9	12.3	6.1
15...	1046	30	508	7.9	12.3	6.1
15...	1047	40	515	7.8	12.2	5.8
15...	1048	50	521	7.8	12.0	5.7
15...	1049	60	517	7.8	11.5	5.8
JUN						
10...	1040	0.1	383	8.1	13.3	7.7
10...	1041	5.0	384	8.1	13.0	7.7
10...	1042	10	382	8.1	12.9	7.5
10...	1043	15	383	8.1	12.9	7.5
10...	1044	20	383	8.1	12.9	7.4
10...	1045	25	391	8.0	12.8	7.3
10...	1046	30	396	8.0	12.2	7.1
10...	1047	40	430	7.9	11.1	6.7
10...	1048	50	516	7.7	8.7	6.1
JUL						
21...	1025	0.1	469	8.7	21.5	8.0
21...	1026	5.0	471	8.7	20.9	8.2
21...	1027	10	467	8.5	20.1	8.1
21...	1028	15	476	8.5	19.5	7.9
21...	1029	20	471	8.1	17.2	5.4
21...	1030	25	492	7.9	15.7	4.4
21...	1031	30	496	7.8	14.5	4.1
21...	1032	40	475	7.8	12.6	4.1
21...	1033	50	503	7.7	11.3	3.1
21...	1034	60	525	7.6	9.9	3.0
21...	1035	65	539	7.6	9.3	2.6
AUG						
17...	1040	0.1	520	8.6	19.8	6.8
17...	1041	5.0	521	8.7	19.4	6.9
17...	1042	10	520	8.7	19.2	7.0
17...	1143	15	521	8.7	19.2	6.8
17...	1144	20	541	8.4	18.7	5.1
17...	1045	25	576	7.8	17.8	1.5
17...	1046	30	572	7.6	15.8	0.4
17...	1047	40	543	7.5	14.0	0.9
17...	1048	50	543	7.6	12.0	1.3
17...	1049	60	538	7.5	10.8	0.7

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
OCT												
15...	1100	0.1	508	7.8	12.4	1.0	99.0	6.2	<1	240	60	21
15...	1115	60	517	7.8	11.5	4.5	--	5.8	--	250	61	22
JUN												
10...	1100	0.1	383	8.1	13.3	3.1	73.0	7.7	<1	160	43	13
10...	1115	50	516	7.7	8.7	4.4	--	6.1	--	210	54	19
JUL												
21...	1050	0.1	468	8.7	2.2	0.6	154	8.0	K1	210	53	18
21...	1105	65	539	7.6	9.3	2.3	--	2.6	--	220	57	20
AUG												
17...	1100	0.1	520	8.6	19.8	0.4	193	6.8	<1	220	57	19
17...	1115	60	538	7.5	10.8	1.9	--	0.7	--	220	57	20

K-Based on non-ideal colony count.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM PERCENT (00932)	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
OCT												
15...	21	0.6	16	2.0	115	160	1.7	0.2	6.0	359	342	0.37
15...	22	0.6	16	2.0	117	170	1.8	0.2	6.6	368	353	0.41
JUN												
10...	14	0.5	16	1.8	101	91	1.5	0.1	8.0	251	233	0.42
10...	20	0.6	17	2.2	117	130	2.1	0.1	8.0	329	310	0.48
JUL												
21...	18	0.5	16	1.8	116	120	1.5	0.1	8.2	311	285	--
21...	20	0.6	16	1.9	117	140	2.0	0.1	8.9	346	317	0.54
AUG												
17...	18	0.5	15	2.1	124	130	1.7	0.1	7.7	338	314	--
17...	20	0.6	16	2.1	118	140	1.8	0.1	7.7	369	325	0.40

DATE	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	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)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
OCT												
15...	0.22	0.20	0.06	<0.01	0.3	0.3	0.09	<0.01	<0.01	<0.01	1.1	<0.1
15...	0.25	0.22	0.07	<0.01	0.3	0.3	0.09	<0.01	<0.01	<0.01	--	--
JUN												
10...	0.32	0.32	0.05	<0.01	0.4	0.4	0.06	<0.01	<0.01	<0.01	0.8	<0.1
10...	0.28	0.32	0.06	<0.01	0.4	0.3	0.14	<0.01	0.03	<0.01	--	--
JUL												
21...	0.34	0.26	0.04	<0.01	0.3	0.4	<0.05	<0.01	0.03	0.01	--	--
21...	0.31	0.25	0.04	<0.01	0.3	0.3	0.20	<0.01	<0.01	<0.01	--	--
AUG												
17...	0.36	0.37	0.03	<0.01	0.4	0.4	<0.05	<0.01	<0.01	<0.01	0.3	<0.1
17...	--	--	<0.02	<0.01	0.4	0.4	0.05	<0.01	<0.01	0.01	--	--

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)
OCT										
15...	40	1	1	<100	59	<10	<1	<1	<1	<1
15...	110	1	1	<100	60	<10	<1	<1	<1	<1
JUN										
10...	110	<1	<1	<100	50	<10	<1	<1	<1	<1
10...	110	<1	<1	<100	56	<10	<1	<1	<1	<1
JUL										
21...	50	<1	<1	<100	58	<10	<1	<1	<1	<1
21...	100	<1	<1	<100	55	<10	<1	<1	<1	<1
AUG										
17...	20	<1	<1	<100	59	<10	<1	<1	<1	<1
17...	90	1	<1	<100	53	<10	<1	<1	<1	<1

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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)
OCT										
15...	<1	1	1	70	7	<1	<1	20	20	11
15...	<1	<1	<1	210	15	<1	<1	20	110	92
JUN										
10...	<1	1	2	130	13	<1	<1	20	10	4
10...	<1	1	<1	140	<10	<1	<1	20	20	<4
JUL										
21...	<1	1	<1	60	11	<1	<1	10	<10	<4
21...	<1	1	<1	100	<10	<1	<1	20	20	<4
AUG										
17...	<1	2	1	20	<10	<1	<1	20	<10	<4
17...	<1	1	<1	100	<10	<1	<1	20	40	<4

DATE	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 (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										
15...	<0.1	<0.1	2.1	2	2	2	<1	<1	<10	<3
15...	<0.1	<0.1	2.0	2	2	2	<1	<1	<10	4
JUN										
10...	<0.1	<0.1	1.0	2	1	1	<1	<1	<10	<20
10...	<0.1	<0.1	1.4	3	2	2	<1	<1	<10	<20
JUL										
21...	<0.1	<0.1	1.1	2	1	2	<1	<1	<10	<20
21...	<0.1	<0.1	1.2	3	2	2	<1	<1	<10	<20
AUG										
17...	<0.1	<0.1	2.5	2	2	2	<1	<1	<10	<20
17...	<0.1	<0.1	2.1	2	2	1	<1	<1	<10	<20

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

WATER-QUALITY RECORDS

LOCATION.--Lat. 40°08'12", long 106°25'48", in NW¼ NW¼ 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 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	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)
OCT										
16...	1115	1.0	2790	8.0	7.5	1.4	9.0	1800	540	95
JUL										
21...	1445	0.50	2600	7.8	17.5	1.0	7.8	1600	530	72

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	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)
OCT									
16...	76	9	0.8	5.5	236	1500	29	1.0	10
JUL									
21...	20	3	0.2	5.4	229	1400	4.9	0.9	10

DATE	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)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT									
16...	2570	2410	3.49	6.93	1	<0.01	0.08	0.05	0.21
JUL									
21...	2560	2230	3.48	3.46	12	<0.01	0.23	0.11	0.34

DATE	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)
OCT									
16...	0.17	0.3	0.2	0.34	<0.01	<0.01	<0.01	6.3	<0.2
JUL									
21...	0.28	0.5	0.4	0.69	<0.01	<0.01	0.01	6.5	0.3

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)
OCT												
16...	70	<1	<1	<100	20	<10	240	<1	<1	<1	1	<1
JUL												
21...	80	<1	<1	<100	19	<10	170	<1	<1	<2	<1	<1

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI) (01132)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MERCURY DISSOLVED (UG/L AS HG) (71890)
OCT											
16...	<1	<1	300	10	<1	<1	120	37	38	<0.1	<0.1
JUL											
21...	1	1	360	<30	<1	<1	70	37	30	<0.1	<0.1

DATE	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO) (01062)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, DISSOLVED (UG/L AS ZN) (01090)
OCT											
16...	8	9	13	10	12	12	<1	<1	5500	<10	<9
JUL											
21...	12	12	18	15	23	25	<1	<1	4800	<10	<60

09041395 WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO

LOCATION.--Lat. 40°06'46", long 106°24'52", in SW¼NE¼ 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 mi^2.

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, 27,750 acre-ft, Nov. 10, 17, 1995, elevation 7,455.90 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 67,500 acre-ft, May 11, elevation, 7,490.07 ft; minimum, 50,690 acre ft, Nov. 6, elevation 7,478.10 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	7,484.63	59,470	-
Oct. 31	7,478.72	51,480	-7,990
Nov. 30	7,478.55	51,270	-210
Dec. 31	7,478.50	51,200	-70
CAL YR 1997	-	-	+3,260
Jan. 31	7,478.31	50,960	-240
Feb. 28	7,478.20	50,820	-140
Mar. 31	7,480.31	53,560	+2,740
Apr. 30	7,485.55	60,790	+7,230
May 31	7,489.72	66,970	+6,180
June 30	7,488.82	65,600	-1,370
July 31	7,488.89	65,710	+110
Aug. 31	7,486.93	62,790	-2,920
Sept. 30	7,478.69	51,450	-11,340
WTR YR 1998	-	-	-8,020

09041395 WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO

WATER-QUALITY RECORDS

LOCATION.--Lat. 40°06'46", long 106°24'52", in SW¼NE¼ sec.25, T.2 N, R.81 W., Grand County, Hydrologic Unit 14010001, 5 mi north of Kremmling.

DRAINAGE AREA.--270 mi^2.

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 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT						
15...	0945	0.1	505	7.9	12.1	6.3
15...	0946	5.0	505	7.9	12.1	6.3
15...	0947	10	505	7.9	12.1	6.3
15...	0948	15	505	7.9	12.1	6.3
15...	0949	20	505	7.9	12.1	6.3
15...	0950	25	505	7.9	12.1	6.3
15...	0951	30	505	7.9	12.1	6.3
15...	0952	40	505	7.9	12.1	6.3
15...	0953	50	505	7.9	12.0	6.3
15...	0954	60	505	7.9	12.0	6.3
15...	0955	70	578	7.4	9.7	1.3
15...	0956	80	649	7.4	8.7	1.1
15...	0957	90	780	7.4	8.6	1.1
JUN						
10...	0940	0.1	393	8.0	13.1	7.6
10...	0941	5.0	392	8.1	12.7	7.6
10...	0942	10	393	8.1	12.6	7.5
10...	0943	15	393	8.1	12.6	7.5
10...	0944	20	394	8.1	12.6	7.5
10...	0945	25	394	8.1	12.6	7.5
10...	0946	30	437	7.9	11.1	6.8
10...	0947	40	492	7.8	9.3	6.6
10...	0948	50	522	7.8	8.5	6.3
10...	0949	60	552	7.7	7.8	6.1
10...	0950	70	572	7.6	7.3	5.8
10...	0951	80	588	7.6	6.9	5.4
10...	0952	90	597	7.6	6.7	5.2
10...	0953	100	604	7.5	6.6	5.1
10...	0954	110	619	7.5	6.4	4.9
JUL						
21...	0940	0.1	466	8.5	22.4	7.7
21...	0941	5.0	465	8.5	22.3	7.8
21...	0942	10	466	8.5	20.9	8.1
21...	0943	15	462	8.3	18.7	7.2
21...	0945	20	454	8.2	17.2	6.0
21...	0946	25	455	8.0	15.9	5.0
21...	0947	30	452	7.9	14.2	4.6
21...	0948	40	458	7.8	12.4	4.2
21...	0949	50	476	7.8	11.6	4.1
21...	0950	60	520	7.6	9.8	3.8
21...	0951	70	544	7.7	9.0	3.6
21...	0952	80	560	7.7	8.5	3.3
21...	0953	90	566	7.6	8.3	3.1
21...	0954	100	574	7.6	8.3	2.9
AUG						
17...	0931	0.1	519	8.6	18.8	6.5
17...	0932	5.0	519	8.6	18.7	6.5
17...	0933	10	519	8.6	18.6	6.5
17...	0934	15	519	8.6	18.6	6.4
17...	0935	20	519	8.6	18.6	6.4
17...	0936	25	519	8.6	18.5	3.6
17...	0937	30	508	7.7	15.5	0.5
17...	0938	40	493	7.6	13.5	1.3
17...	0939	50	508	7.7	11.7	1.9
17...	0940	60	529	7.7	10.6	2.0
17...	0941	70	554	7.6	9.8	1.8
17...	0942	80	573	7.6	9.0	1.4
17...	0943	90	578	7.6	9.0	1.3
17...	0944	100	587	7.6	8.9	1.2

09041395 WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
OCT												
15...	1000	0.1	505	7.9	12.1	1.1	85.0	6.3	<1	240	61	21
15...	1015	90.0	780	7.4	8.6	2.8	--	1.1	--	350	92	29
JUN												
10...	1000	0.1	393	8.0	13.1	3.1	83.0	7.6	<1	170	44	14
10...	1015	110	619	7.5	6.4	3.2	--	4.9	--	260	64	24
JUL												
21...	1000	0.1	466	8.5	22.4	0.7	135	7.7	K1	200	53	17
21...	1015	100	574	7.6	8.3	1.7	--	2.9	--	240	62	22
AUG												
17...	0950	0.1	519	8.6	18.8	0.4	196	6.5	K1	220	57	19
17...	1005	100	587	7.6	8.9	1.9	--	1.2	--	240	61	22

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	SODIUM PERCENT (00932)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, TOTAL (MG/L AS N) (00600)
OCT												
15...	21	0.6	16	2.0	115	160	1.8	0.2	6.0	359	341	0.38
15...	26	0.6	14	2.5	120	280	2.3	0.2	11	541	512	0.67
JUN												
10...	15	0.5	16	1.8	103	93	1.6	0.1	8.3	259	240	0.51
10...	25	0.7	17	2.4	128	170	2.6	0.2	7.6	388	379	0.60
JUL												
21...	17	0.5	15	1.8	114	110	1.5	0.1	8.3	272	281	--
21...	23	0.6	17	2.2	123	150	2.3	0.1	8.7	325	349	0.61
AUG												
17...	19	0.6	16	2.0	122	130	1.7	0.1	7.8	336	313	--
17...	22	0.6	16	2.3	123	160	2.4	0.1	8.9	382	351	0.65

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
OCT												
15...	0.27	0.23	0.03	<0.01	0.3	0.3	0.08	<0.01	<0.01	<0.01	1.1	<0.1
15...	0.26	0.27	0.13	0.02	0.4	0.4	0.28	0.04	<0.01	0.02	--	--
JUN												
10...	0.40	0.33	0.05	<0.01	0.4	0.4	0.06	0.02	<0.01	<0.01	0.5	<0.1
10...	0.30	0.32	0.05	<0.01	0.4	0.4	0.25	0.02	<0.01	<0.01	--	--
JUL												
21...	0.34	0.26	0.04	<0.01	0.3	0.4	<0.05	<0.01	<0.01	0.01	3.0	<0.1
21...	0.32	0.29	0.03	<0.01	0.3	0.3	0.26	<0.01	<0.01	0.01	--	--
AUG												
17...	0.36	0.33	0.03	<0.01	0.4	0.4	<0.05	0.04	<0.01	<0.01	1.1	<0.1
17...	0.28	0.28	0.03	<0.01	0.3	0.3	0.33	<0.01	<0.01	0.02	--	--

K-Based on non-ideal colony count.

09041395 WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)
OCT										
15...	30	1	<1	<100	60	<10	<1	<1	<1	<1
15...	30	1	1	<100	52	<10	<1	<1	<1	<1
JUN										
10...	100	<1	<1	<100	51	<10	<1	<1	<1	<1
10...	70	<1	<1	<100	60	<10	<1	<1	<1	<1
JUL										
21...	50	<1	<1	<100	57	<10	<1	<1	<1	<1
21...	80	<1	<1	<100	58	<10	<1	<1	<1	<1
AUG										
17...	10	<1	<1	<100	60	<10	<1	<1	<1	<1
17...	70	<1	1	<100	53	<10	<1	<1	<1	<1

DATE	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI) (01132)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
OCT										
15...	<1	<1	<1	70	6	<1	<1	20	20	10
15...	<1	<1	1	130	63	<1	<1	30	660	750
JUN										
10...	<1	1	1	120	15	<1	<1	20	<10	<4
10...	<1	1	<1	90	<10	<1	<1	20	30	<4
JUL										
21...	<1	<1	<1	60	18	<1	<1	20	<10	<4
21...	<1	<1	<1	70	<10	<1	<1	20	40	<4
AUG										
17...	<1	1	<1	20	<10	<1	<1	20	<10	<4
17...	<1	1	1	60	<10	<1	<1	20	80	<4

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MERCURY DISSOLVED (UG/L AS HG) (71890)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, DISSOLVED (UG/L AS ZN) (01090)
OCT										
15...	<0.1	<0.1	1.7	2	2	2	<1	<1	<10	<3
15...	<0.1	<0.1	2.7	3	5	5	<1	<1	<10	12
JUN										
10...	<0.1	<0.1	1.3	2	2	1	<1	<1	<10	<20
10...	<0.1	<0.1	1.4	3	3	<1	<1	<1	<10	<20
JUL										
21...	<0.1	<0.1	1.7	2	1	2	<1	<1	<10	<20
21...	<0.1	<0.1	1.9	3	2	2	<1	<1	<10	<20
AUG										
17...	<0.1	<0.1	2.9	3	2	2	<1	<1	<10	<20
17...	<0.1	<0.1	2.9	3	2	2	<1	<1	<10	<20

09041400 MUDDY CREEK BELOW WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO

LOCATION.--Lat 40°06'31", long 106°24'48", in NW¼SE¼ 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 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	162	117	33	e33	33	38	108	91	401	80	61	154
2	126	117	33	e33	33	38	107	107	370	72	66	156
3	87	117	33	e33	33	38	107	107	344	73	69	156
4	181	115	33	e33	33	38	106	107	313	77	68	156
5	181	116	33	e33	33	38	106	108	346	81	67	155
6	180	67	33	e33	33	38	58	143	316	81	62	156
7	179	30	33	e33	33	38	28	354	280	81	56	157
8	181	30	33	e33	34	39	28	563	254	80	54	153
9	182	30	33	e33	34	39	28	608	236	80	53	147
10	181	30	33	e33	34	39	28	616	214	80	53	165
11	181	31	33	e33	34	39	27	649	198	80	53	223
12	182	e31	33	e33	34	39	27	706	185	80	53	222
13	182	e31	32	33	34	39	28	756	171	80	52	226
14	182	e31	32	33	34	39	28	701	167	81	52	225
15	181	e31	32	32	34	40	28	597	173	81	52	224
16	131	e31	32	32	34	40	29	546	170	76	52	201
17	142	e31	32	32	34	40	29	499	161	60	52	180
18	180	e31	32	32	34	40	28	615	161	54	53	181
19	180	e31	32	31	35	40	28	747	164	53	53	208
20	181	e31	32	31	35	40	28	630	161	53	53	223
21	180	31	32	31	35	40	28	494	157	53	53	226
22	180	31	33	31	36	41	28	427	157	53	53	225
23	178	31	33	31	36	50	28	396	147	53	52	226
24	179	32	33	31	36	58	28	424	136	53	52	227
25	180	32	33	32	36	88	28	442	127	53	52	226
26	180	32	33	32	36	107	28	443	120	52	97	225
27	179	32	33	32	37	107	28	432	117	51	161	226
28	179	32	33	32	37	107	43	441	115	51	152	169
29	188	32	33	32	---	108	67	451	115	51	154	133
30	202	32	33	32	---	109	71	442	102	63	153	133
31	159	---	33	32	---	108	---	426	---	58	153	---
TOTAL	5346	1396	1014	1000	964	1702	1361	14068	6078	2074	2266	5684
MEAN	172	46.5	32.7	32.3	34.4	54.9	45.4	454	203	66.9	73.1	189
MAX	202	117	33	33	37	109	108	756	401	81	161	227
MIN	87	30	32	31	33	38	27	91	102	51	52	133
AC-FT	10600	2770	2010	1980	1910	3380	2700	27900	12060	4110	4490	11270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1998, BY WATER YEAR (WY)

MEAN	85.9	32.6	20.6	24.2	28.8	56.9	140	397	286	74.7	89.8	121
MAX	172	46.5	32.7	32.3	34.4	75.8	249	454	492	96.7	153	189
(WY)	1998	1998	1998	1998	1998	1997	1996	1998	1997	1997	1996	1998
MIN	35.3	23.7	7.07	15.8	21.0	39.8	45.4	349	164	60.4	39.3	51.2
(WY)	1997	1997	1996	1996	1996	1996	1998	1996	1996	1996	1995	1995

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1995 - 1998	
ANNUAL TOTAL	52474		42953			
ANNUAL MEAN	144		118		117	
HIGHEST ANNUAL MEAN					129	1997
LOWEST ANNUAL MEAN					103	1996
HIGHEST DAILY MEAN	992	Jun 3	756	May 13	992	Jun 3 1997
LOWEST DAILY MEAN	a22	Jan 1	b27	Apr 11	2.8	Dec 3 1995
ANNUAL SEVEN-DAY MINIMUM	22	Jan 1	28	Apr 7	3.4	Dec 2 1995
INSTANTANEOUS PEAK FLOW			871	May 13	1030	Jun 2 1997
INSTANTANEOUS PEAK STAGE			7.93	May 13	8.39	Jun 2 1997
ANNUAL RUNOFF (AC-FT)	104100		85200		84620	
10 PERCENT EXCEEDS	337		226		269	
50 PERCENT EXCEEDS	91		53		56	
90 PERCENT EXCEEDS	30		31		21	

e-Estimated.
a-Also occurred Jan 2-14
b-Also occurred Apr 12.

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

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 from Oct. 1995 to current year.

REMARKS.--Water temperature and specific conductance records are rated good. Dissolved oxygen records are good, except for the periods: Feb. 19 to Mar. 12, July 23 to Sept. 8, which are rated fair, and Nov. 27 to Jan. 21, June 12 to July 22 which are rated poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum 1910 microsiemens, Oct. 20, 1996; minimum, 281 microsiemens, 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, 1030 microsiemens, May 7; minimum, 428 microsiemens, June 4.
WATER TEMPERATURE: Maximum, 12.9°C, June 1; minimum, 2.2°C, Jan. 21.
DISSOLVED OXYGEN: Maximum, 11.9 mg/L, July 3; minimum, 5.9 mg/L, Nov. 9, 11.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	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)
OCT										
16...	1500	87	573	8.3	11.9	1.8	9.4	240	62	21
NOV										
20...	1200	30	611	8.3	6.0	1.8	8.0	250	63	23
DEC										
16...	1200	30	610	8.4	3.5	0.6	8.0	270	68	24
JAN										
22...	1400	30	620	8.3	3.0	0.3	8.1	270	67	24
FEB										
19...	1200	32	627	8.4	4.0	0.8	8.4	270	67	25
MAR										
25...	1320	107	644	8.5	4.0	5.0	10.1	270	67	25
APR										
21...	1120	28	607	8.3	5.5	3.0	10.2	250	61	23
MAY										
19...	1130	787	682	8.1	6.0	36	9.9	290	68	29
JUN										
11...	1330	200	522	8.2	11.3	3.0	9.1	220	55	20
JUL										
22...	1050	54	602	8.2	9.4	1.2	9.3	260	67	23
AUG										
11...	1015	54	602	8.2	9.6	2.0	9.3	260	65	23
SEP										
08...	1255	158	578	8.1	10.3	3.7	9.1	240	60	22

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	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)
OCT									
16...	21	16	0.6	2.0	116	170	1.9	0.2	6.8
NOV									
20...	24	17	0.6	2.2	120	190	2.2	0.2	6.1
DEC									
16...	23	16	0.6	2.0	122	190	2.3	0.2	6.7
JAN									
22...	25	17	0.7	2.1	124	190	2.4	0.2	6.2
FEB									
19...	25	17	0.7	2.3	126	190	2.6	0.2	6.5
MAR									
25...	25	17	0.7	2.2	130	200	2.6	0.2	7.4
APR									
21...	24	17	0.7	2.2	126	180	2.6	0.2	7.0
MAY									
19...	31	19	0.8	2.8	137	210	3.1	0.2	7.3
JUN									
11...	21	17	0.6	2.2	116	140	2.2	0.1	7.7
JUL									
22...	24	16	0.6	2.6	124	170	2.4	0.2	8.2
AUG									
11...	24	17	0.7	2.4	125	170	2.7	0.2	8.6
SEP									
08...	23	17	0.6	2.3	124	160	2.3	0.2	9.2

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT									
16...	378	356	0.51	88.9	8	0.01	0.10	0.04	0.26
NOV									
20...	415	379	0.56	33.6	--	<0.01	0.13	<0.02	--
DEC									
16...	413	389	0.56	33.5	9	<0.01	0.11	<0.02	--
JAN									
22...	421	392	0.57	34.1	--	0.01	0.13	<0.02	--
FEB									
19...	425	395	0.58	36.7	--	<0.01	0.14	<0.02	--
MAR									
25...	437	409	0.59	126	--	0.01	0.16	0.03	0.39
APR									
21...	407	376	0.55	31.0	--	<0.01	0.11	0.03	0.56
MAY									
19...	466	439	0.63	990	--	0.01	0.21	0.05	0.49
JUN									
11...	343	320	0.47	185	--	<0.01	0.13	0.06	0.34
JUL									
22...	414	377	0.56	60.6	2	<0.01	0.26	0.05	0.31
AUG									
11...	412	377	0.56	60.3	5	0.01	0.33	0.08	0.25
SEP									
08...	389	354	0.53	166	--	<0.01	0.23	0.07	0.27

DATE	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)
OCT									
16...	0.21	0.3	0.2	0.40	<0.01	<0.01	<0.01	6.4	<0.2
NOV									
20...	--	0.3	0.3	0.47	<0.01	<0.01	<0.01	--	--
DEC									
16...	--	0.3	0.3	0.42	<0.01	<0.01	0.01	6.3	<0.2
JAN									
22...	--	0.3	0.3	0.45	<0.01	<0.01	<0.01	--	--
FEB									
19...	--	0.3	0.3	0.47	<0.01	0.01	0.02	--	--
MAR									
25...	0.30	0.4	0.3	0.58	0.02	<0.01	<0.01	--	--
APR									
21...	0.32	0.6	0.3	0.70	0.03	<0.01	0.01	--	--
MAY									
19...	0.26	0.5	0.3	0.74	0.18	<0.01	0.01	--	--
JUN									
11...	0.29	0.4	0.3	0.53	<0.01	<0.01	<0.01	--	--
JUL									
22...	0.27	0.4	0.3	0.62	<0.01	<0.01	0.02	6.0	0.2
AUG									
11...	0.24	0.3	0.3	0.66	<0.01	<0.01	0.02	6.2	<0.2
SEP									
08...	0.30	0.3	0.4	0.57	0.04	0.04	0.03	--	--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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)	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)
OCT												
16...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
20...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
16...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
19...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
25...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
19...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
11...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
22...	70	<1	<1	<100	54	<10	47.9	<1	<1	<1	<1	<1
AUG												
11...	50	1	<1	<100	52	<10	45.0	<1	<1	<1	<1	<1
SEP												
08...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	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)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)
OCT											
16...	--	--	110	15	--	--	--	120	95	--	--
NOV											
20...	--	--	90	<10	--	--	--	20	6	--	--
DEC											
16...	--	--	40	<10	--	--	--	<10	<4	--	--
JAN											
22...	--	--	20	<10	--	--	--	<10	<4	--	--
FEB											
19...	--	--	60	<10	--	--	--	<10	<4	--	--
MAR											
25...	--	--	120	<10	--	--	--	20	<4	--	--
APR											
21...	--	--	90	<10	--	--	--	10	<4	--	--
MAY											
19...	--	--	2300	<10	--	--	--	90	5	--	--
JUN											
11...	--	--	110	<10	--	--	--	20	<4	--	--
JUL											
22...	<1	<1	70	<10	<1	<1	30	90	25	<0.1	<0.1
AUG											
11...	1	<1	70	<10	<1	<1	20	110	24	<0.1	<0.1
SEP											
08...	--	--	170	38	--	--	--	360	340	--	--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT											
16...	--	--	--	--	--	--	--	--	--	--	--
NOV											
20...	--	--	--	--	--	--	--	--	--	--	--
DEC											
16...	--	--	--	--	--	--	--	--	--	--	--
JAN											
22...	--	--	--	--	--	--	--	--	--	--	--
FEB											
19...	--	--	--	--	--	--	--	--	--	--	--
MAR											
25...	--	--	--	--	--	--	--	--	--	--	--
APR											
21...	--	--	--	--	--	--	--	--	--	--	--
MAY											
19...	--	--	--	--	--	--	--	--	--	--	--
JUN											
11...	--	--	--	--	--	--	--	--	--	--	--
JUL											
22...	2.1	2.6	4	2	2	3	<1	<1	590	<10	<20
AUG											
11...	2.7	3.2	3	2	2	3	<1	<1	590	<10	<20
SEP											
08...	--	--	--	--	--	--	--	--	--	--	--

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	574	565	569	570	567	568	591	590	590	---	---	---
2	584	567	574	570	567	568	591	589	590	---	---	---
3	578	568	573	571	569	570	590	589	589	---	---	---
4	583	569	575	577	569	572	590	587	588	---	---	---
5	586	574	581	581	573	576	588	585	586	---	---	---
6	581	566	573	591	577	585	587	585	586	---	---	---
7	584	554	570	594	590	591	589	587	588	---	---	---
8	583	559	570	593	586	589	589	587	588	---	---	---
9	597	569	573	588	585	587	589	587	588	---	---	---
10	577	559	569	588	586	587	588	586	587	---	---	---
11	586	551	566	588	585	587	587	586	586	---	---	---
12	561	544	550	---	---	---	589	585	587	---	---	---
13	561	555	558	---	---	---	592	587	589	602	600	601
14	563	555	559	---	---	---	591	589	590	601	600	601
15	564	554	556	---	---	---	592	590	591	601	599	601
16	570	557	566	---	---	---	597	591	593	602	600	601
17	570	563	565	---	---	---	595	594	594	602	599	601
18	571	565	568	---	---	---	595	594	594	603	601	602
19	573	566	570	---	---	---	595	594	594	603	602	603
20	574	558	567	---	---	---	596	594	595	603	602	602
21	573	562	568	591	589	590	596	594	595	606	602	603
22	572	560	568	592	590	591	596	595	596	604	601	604
23	579	563	569	592	590	591	596	595	596	604	603	604
24	572	555	562	592	591	591	597	595	596	604	603	604
25	561	555	556	593	591	592	597	596	596	604	603	603
26	563	559	561	593	591	592	598	596	597	604	602	603
27	570	562	565	594	590	593	598	596	597	604	602	604
28	581	570	575	594	592	593	598	597	598	604	603	604
29	585	573	579	593	590	591	598	594	598	605	603	604
30	578	572	575	592	590	591	599	597	598	605	603	604
31	572	568	569	---	---	---	598	597	598	605	604	604
MONTH	597	544	568	---	---	---	599	585	592	---	---	---

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

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	606	604	605	646	626	633	649	635	643	612	592	604
2	605	604	605	630	626	628	642	634	638	602	589	595
3	606	605	605	627	625	626	649	637	644	615	589	601
4	606	605	606	625	623	624	648	641	644	614	593	602
5	607	605	606	629	625	628	650	626	642	609	595	602
6	607	606	606	629	624	626	649	628	640	606	584	596
7	607	605	607	628	624	626	651	645	649	1030	578	729
8	607	606	606	629	626	627	645	629	635	780	660	696
9	607	606	606	629	626	627	631	626	628	674	662	667
10	606	605	606	631	629	630	636	631	633	665	644	657
11	607	605	606	630	627	629	635	619	628	654	632	644
12	607	606	606	632	628	630	619	611	614	714	633	683
13	607	606	606	631	629	630	621	611	614	782	708	752
14	607	606	607	630	625	629	626	603	617	784	730	760
15	607	606	607	633	627	631	603	585	590	768	729	747
16	607	606	606	633	619	630	613	586	593	763	731	749
17	607	606	607	634	616	630	641	598	627	754	651	726
18	610	606	608	636	634	635	598	561	577	701	647	681
19	611	610	610	636	632	634	575	561	567	696	653	672
20	611	609	610	634	629	632	561	559	560	687	653	669
21	610	609	610	636	629	634	587	559	573	672	649	661
22	610	609	610	642	632	637	582	574	579	653	603	624
23	611	609	610	644	632	638	609	575	584	612	533	566
24	612	608	611	632	620	628	691	598	638	533	502	514
25	612	610	611	630	617	622	671	595	620	518	502	512
26	616	611	613	628	617	625	614	594	606	530	503	512
27	639	616	624	642	627	639	595	588	591	558	508	528
28	654	639	650	649	640	645	603	588	594	549	492	507
29	---	---	---	647	631	640	613	593	605	504	477	491
30	---	---	---	645	632	640	604	589	594	516	482	496
31	---	---	---	650	638	647	---	---	---	497	481	487
MONTH	654	604	610	650	616	632	691	559	612	1030	477	624

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	494	472	479	602	596	599	581	566	572	565	558	561
2	517	478	493	607	599	603	572	563	567	562	554	559
3	555	485	510	607	597	603	568	561	564	559	554	557
4	555	428	475	602	594	598	569	562	566	560	555	557
5	476	470	473	599	590	593	568	563	566	566	556	560
6	478	473	476	598	587	592	579	568	574	561	556	559
7	516	478	491	602	594	598	593	575	584	562	553	559
8	505	491	498	599	594	596	593	589	592	577	551	565
9	513	495	504	597	591	595	596	585	592	577	567	572
10	518	508	512	598	590	594	597	586	590	574	557	568
11	534	517	523	599	591	595	593	582	588	564	555	559
12	540	531	536	595	588	591	593	584	589	561	552	557
13	555	536	547	597	591	594	591	582	586	562	554	557
14	556	546	551	595	589	592	591	582	589	560	553	556
15	547	542	544	598	589	593	589	578	584	557	552	555
16	552	543	547	599	590	595	591	583	588	563	551	557
17	561	547	554	612	596	603	592	584	589	562	551	558
18	558	548	553	612	601	606	588	578	583	558	553	556
19	551	544	548	619	605	610	586	580	583	557	547	552
20	555	544	551	615	607	612	589	579	585	553	546	550
21	559	543	553	615	601	608	586	577	582	551	542	547
22	557	548	553	606	583	593	589	585	587	549	543	546
23	569	554	562	589	583	587	590	582	586	550	544	546
24	579	567	573	589	582	586	590	585	588	547	544	545
25	586	576	582	602	581	587	593	586	590	549	540	546
26	591	580	587	591	582	586	589	559	577	549	540	545
27	594	586	590	589	581	585	565	556	561	549	543	546
28	596	588	593	593	577	588	563	556	560	559	545	553
29	597	590	593	583	569	575	563	557	561	561	554	558
30	600	588	595	587	573	583	563	555	560	563	557	560
31	---	---	---	585	575	580	563	555	559	---	---	---
MONTH	600	428	538	619	569	594	597	555	579	577	540	556

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	11.4	10.8	11.1	8.8	8.5	8.6	4.7	3.9	4.2	---	---	---
2	11.5	10.5	11.1	8.6	8.3	8.4	4.6	3.7	4.1	---	---	---
3	12.0	10.9	11.5	8.5	8.1	8.3	4.4	3.3	3.8	---	---	---
4	11.7	10.9	11.3	8.6	8.1	8.3	3.9	2.9	3.3	---	---	---
5	11.8	11.1	11.5	8.4	7.9	8.1	3.4	2.7	2.9	---	---	---
6	11.9	11.2	11.6	8.8	7.8	8.1	3.3	2.4	2.8	---	---	---
7	12.8	11.2	11.9	8.8	7.6	8.0	3.6	2.9	3.2	---	---	---
8	12.2	11.0	11.7	8.5	7.4	7.8	3.9	3.2	3.5	---	---	---
9	11.9	11.4	11.6	8.2	7.4	7.6	3.9	3.4	3.5	---	---	---
10	12.4	11.2	11.8	7.8	7.2	7.4	3.6	2.9	3.3	---	---	---
11	12.4	11.3	12.0	7.6	7.1	7.3	3.8	2.6	3.1	---	---	---
12	12.6	11.8	12.2	---	---	---	3.5	2.5	2.8	---	---	---
13	11.9	11.6	11.8	---	---	---	3.6	2.6	2.9	3.2	2.5	2.8
14	11.9	11.4	11.7	---	---	---	3.6	2.6	2.9	3.4	2.4	2.7
15	11.9	11.4	11.7	---	---	---	3.3	2.5	2.9	3.4	2.3	2.7
16	11.9	11.1	11.5	---	---	---	3.6	2.7	3.0	3.4	2.4	2.8
17	11.6	11.0	11.3	---	---	---	3.7	2.8	3.1	3.1	2.5	2.8
18	11.4	11.0	11.2	---	---	---	3.5	2.8	3.0	3.5	2.5	2.8
19	11.3	10.9	11.1	---	---	---	3.7	2.8	3.1	3.2	2.3	2.7
20	11.4	11.0	11.1	---	---	---	3.6	2.6	2.9	3.1	2.5	2.8
21	11.3	10.9	11.1	5.6	5.2	5.3	3.5	2.6	2.9	3.5	2.2	2.7
22	11.2	10.8	11.0	5.9	4.8	5.2	3.7	2.8	3.1	3.4	2.4	2.9
23	11.0	10.7	10.8	5.5	4.7	5.0	3.6	2.6	2.9	3.8	2.6	3.0
24	10.8	10.3	10.6	5.6	4.7	5.0	3.4	2.5	2.9	3.6	2.6	3.0
25	10.3	9.8	10.0	5.5	4.6	4.9	3.6	2.6	2.9	3.7	2.9	3.1
26	9.9	9.6	9.7	5.0	4.6	4.7	3.5	2.6	2.9	3.8	2.6	3.0
27	9.8	9.5	9.6	5.4	4.5	4.8	3.0	2.5	2.7	3.7	2.6	3.0
28	9.5	9.2	9.4	5.3	4.4	4.6	3.3	2.6	2.9	3.8	2.5	3.0
29	9.4	9.0	9.2	4.9	4.1	4.4	3.4	2.9	3.1	3.8	2.5	3.0
30	9.1	8.8	9.0	4.5	4.0	4.2	3.5	2.7	3.1	3.8	2.5	3.0
31	9.1	8.7	8.8	---	---	---	3.6	2.6	3.0	3.9	2.7	3.1
MONTH	12.8	8.7	11.0	---	---	---	4.7	2.4	3.1	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.9	2.7	3.0	4.3	2.6	3.2	4.4	3.6	3.9	5.9	5.1	5.4
2	3.6	2.6	3.0	4.2	2.6	3.2	4.0	3.8	3.9	6.3	5.2	5.8
3	4.0	2.9	3.2	4.4	3.0	3.5	4.4	3.7	4.0	6.4	5.3	5.8
4	4.1	2.8	3.2	3.7	2.9	3.2	4.5	3.7	4.0	6.3	5.2	5.7
5	3.9	3.0	3.3	4.4	2.7	3.3	4.6	3.8	4.2	6.1	5.3	5.8
6	3.8	3.0	3.3	4.4	3.1	3.4	4.7	3.7	4.0	7.7	5.4	6.6
7	3.7	2.9	3.2	3.6	2.6	3.1	4.9	3.5	3.9	8.9	7.6	8.3
8	4.0	2.9	3.2	4.2	2.5	3.2	5.0	3.5	4.0	9.2	8.4	8.7
9	4.0	2.7	3.2	4.3	2.9	3.3	4.7	3.3	3.9	9.5	8.5	9.0
10	3.8	2.6	3.0	4.5	3.0	3.4	5.3	3.2	4.1	10.2	7.8	8.9
11	3.4	2.4	2.9	4.4	2.9	3.4	5.8	3.5	4.4	8.7	7.8	8.3
12	3.9	2.7	3.1	4.5	2.8	3.4	5.4	3.7	4.4	8.2	7.2	7.8
13	3.8	2.6	3.1	4.5	2.9	3.5	5.2	3.4	4.0	7.2	5.9	6.7
14	4.0	3.0	3.3	4.6	2.9	3.5	4.5	3.4	3.7	6.2	5.9	6.1
15	4.1	2.9	3.3	4.5	2.8	3.5	5.0	3.2	3.8	6.4	6.0	6.2
16	4.2	3.0	3.4	4.7	2.9	3.6	4.9	2.8	3.7	6.4	5.7	6.0
17	3.7	2.9	3.3	4.4	3.0	3.5	4.9	3.1	3.8	6.0	5.3	5.7
18	4.1	2.9	3.3	3.8	3.0	3.3	5.5	3.6	4.3	6.1	5.7	5.9
19	4.1	2.7	3.2	4.3	2.9	3.3	5.6	3.9	4.5	5.8	5.5	5.6
20	4.1	2.6	3.1	4.6	2.9	3.5	6.2	4.3	5.0	5.8	5.5	5.6
21	4.2	2.7	3.3	4.7	3.0	3.6	6.3	4.6	5.2	6.2	5.6	5.9
22	4.4	2.9	3.4	4.5	3.3	3.7	6.4	4.3	5.2	7.6	6.2	7.0
23	4.0	3.1	3.4	4.2	3.3	3.6	6.6	4.4	5.2	9.9	7.4	9.0
24	3.9	3.1	3.4	4.3	3.3	3.7	6.0	4.0	4.8	10.8	9.8	10.3
25	3.9	2.9	3.3	4.1	3.3	3.6	5.8	4.4	4.9	10.7	9.8	10.2
26	3.7	2.8	3.2	3.9	3.4	3.6	5.4	4.6	5.0	10.6	9.5	10.0
27	3.9	2.6	3.1	4.2	3.5	3.8	6.8	4.7	5.6	10.2	8.7	9.5
28	4.2	2.5	3.1	4.3	3.7	3.9	6.9	5.0	5.6	10.9	8.9	9.8
29	---	---	---	4.2	3.6	3.9	6.1	4.8	5.4	11.4	9.7	10.4
30	---	---	---	4.1	3.6	3.8	6.5	5.1	5.7	11.0	9.5	10.3
31	---	---	---	4.3	3.7	3.9	---	---	---	12.3	10.3	11.1
MONTH	4.4	2.4	3.2	4.7	2.5	3.5	6.9	2.8	4.5	12.3	5.1	7.7

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	12.9	10.5	12.1	9.3	8.0	8.5	10.4	9.1	9.7	9.8	9.5	9.6
2	12.2	9.5	10.9	9.3	8.0	8.5	11.4	9.5	10.4	10.0	9.4	9.7
3	11.7	8.3	10.1	9.3	8.0	8.4	11.9	10.4	11.0	10.1	9.5	9.7
4	12.2	8.3	10.7	9.1	8.1	8.5	11.8	10.6	11.0	10.1	9.5	9.8
5	11.4	10.6	10.9	9.3	8.2	8.6	12.1	10.7	11.3	10.2	9.5	9.8
6	11.2	10.5	10.8	9.2	8.3	8.6	11.8	9.9	10.8	10.3	9.6	9.9
7	11.0	9.6	10.4	9.1	8.2	8.5	10.6	9.1	9.7	10.2	9.6	9.9
8	10.6	9.7	10.2	9.2	8.3	8.6	10.3	8.7	9.4	10.3	9.7	10.0
9	10.7	9.9	10.2	9.0	8.4	8.6	10.3	9.0	9.5	10.4	9.8	10.0
10	10.4	9.6	10.0	9.4	8.4	8.7	10.2	8.9	9.3	10.5	9.8	10.1
11	10.3	9.4	9.8	9.3	8.4	8.7	9.9	8.9	9.3	10.4	10.0	10.2
12	10.5	9.3	9.7	9.5	8.3	8.7	10.2	8.7	9.3	10.5	10.2	10.3
13	9.7	8.9	9.3	9.4	8.3	8.7	10.4	8.8	9.4	10.5	10.1	10.3
14	9.5	8.8	9.1	9.4	8.3	8.7	10.3	8.8	9.4	10.6	10.2	10.4
15	9.9	8.9	9.3	9.4	8.3	8.8	10.3	9.0	9.4	10.8	10.2	10.5
16	9.7	9.0	9.2	9.7	8.4	8.9	10.1	9.0	9.4	10.7	10.3	10.5
17	9.1	8.5	8.8	10.0	8.4	9.1	10.4	8.9	9.5	10.9	10.3	10.5
18	9.2	8.6	8.9	10.1	8.4	9.1	10.5	9.1	9.6	10.9	10.4	10.6
19	9.9	8.7	9.2	10.0	8.4	9.1	10.5	9.1	9.6	11.0	10.5	10.7
20	9.6	8.6	9.1	10.0	8.4	9.1	10.6	9.1	9.6	11.1	10.6	10.8
21	9.8	8.9	9.3	10.1	8.5	9.1	10.3	9.1	9.6	11.2	10.6	10.9
22	10.4	8.9	9.5	9.8	8.6	9.1	10.5	9.3	9.7	11.2	10.7	11.0
23	9.6	8.5	9.0	9.6	8.8	9.1	10.6	9.1	9.7	11.3	11.0	11.1
24	9.2	8.2	8.6	9.9	8.7	9.1	10.3	9.3	9.6	11.5	11.1	11.2
25	9.2	7.9	8.4	9.8	8.9	9.2	10.3	9.1	9.5	11.5	11.0	11.3
26	9.0	7.9	8.4	10.1	9.0	9.4	10.3	9.3	9.6	11.7	11.2	11.5
27	9.0	7.8	8.3	10.3	8.9	9.4	9.8	9.3	9.5	11.8	11.4	11.6
28	8.8	7.8	8.2	9.9	9.0	9.2	9.9	9.2	9.5	11.9	11.4	11.6
29	8.8	7.8	8.3	9.8	9.0	9.2	9.9	9.2	9.5	12.0	11.4	11.6
30	9.1	8.0	8.4	10.0	8.9	9.2	9.9	9.3	9.5	12.1	11.4	11.7
31	---	---	---	10.3	8.8	9.4	10.0	9.3	9.6	---	---	---
MONTH	12.9	7.8	9.5	10.3	8.0	8.9	12.1	8.7	9.7	12.1	9.4	10.6

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.5	7.9	8.2	9.4	8.7	8.9	9.1	7.4	7.9	---	---	---
2	8.7	7.3	8.0	9.5	8.7	8.9	9.1	7.4	7.9	---	---	---
3	8.8	7.2	7.9	9.6	8.7	9.0	9.1	7.4	7.9	---	---	---
4	8.5	7.8	8.2	9.6	8.6	8.9	8.9	7.4	7.9	---	---	---
5	8.5	7.7	8.0	9.8	8.6	9.1	9.0	7.5	7.9	---	---	---
6	8.3	7.5	7.8	10.5	6.2	8.5	9.0	7.3	7.9	---	---	---
7	8.2	7.5	7.7	8.7	6.0	6.8	8.5	7.1	7.6	---	---	---
8	8.2	7.6	7.8	8.7	6.0	6.8	8.5	6.9	7.5	---	---	---
9	8.4	7.6	7.9	8.8	5.9	6.8	8.4	6.9	7.3	---	---	---
10	8.3	7.7	7.9	8.2	6.0	6.6	8.2	6.7	7.2	---	---	---
11	8.3	7.5	7.8	7.8	5.9	6.4	8.7	6.7	7.5	---	---	---
12	8.3	7.5	7.8	---	---	---	8.7	7.1	7.8	---	---	---
13	8.5	7.8	8.0	---	---	---	8.5	7.0	7.5	8.4	7.6	7.9
14	8.4	7.9	8.1	---	---	---	8.0	6.9	7.3	8.3	7.5	7.8
15	8.4	7.8	8.0	---	---	---	7.8	6.8	7.2	8.3	7.5	7.7
16	9.4	7.7	8.3	---	---	---	8.2	6.9	7.4	8.1	7.5	7.7
17	9.2	8.3	8.7	---	---	---	8.3	7.3	7.6	8.2	7.5	7.7
18	9.1	8.6	8.8	---	---	---	8.3	7.2	7.6	8.1	7.5	7.7
19	9.2	8.7	8.9	---	---	---	8.2	7.2	7.5	8.1	7.4	7.7
20	9.2	8.7	8.8	---	---	---	8.3	7.2	7.6	8.0	7.4	7.6
21	9.2	8.6	8.8	8.8	7.3	7.7	8.3	7.3	7.7	8.0	7.3	7.6
22	9.2	8.6	8.8	8.9	7.3	7.8	8.3	7.3	7.7	8.2	7.6	7.8
23	9.2	8.6	8.8	9.0	7.3	7.8	8.4	7.4	7.7	8.2	7.6	7.8
24	9.0	8.6	8.8	8.9	7.3	7.8	8.5	7.4	7.8	8.1	7.5	7.7
25	9.4	8.8	9.1	9.0	7.4	7.8	8.6	7.6	7.9	8.1	7.5	7.7
26	9.5	9.0	9.1	8.8	7.4	7.8	8.6	7.7	7.9	8.1	7.5	7.7
27	9.5	9.0	9.1	9.0	7.4	7.9	8.4	7.6	7.9	8.1	7.4	7.7
28	9.6	9.0	9.2	9.1	7.5	8.0	8.5	7.6	7.9	8.1	7.4	7.6
29	9.7	9.2	9.3	9.0	7.4	7.8	8.5	7.6	7.9	8.1	7.4	7.7
30	9.6	9.2	9.3	9.0	7.4	7.9	8.3	7.6	7.8	8.1	7.4	7.6
31	9.4	8.6	9.0	---	---	---	8.4	7.5	7.8	8.0	7.3	7.6
MONTH	9.7	7.2	8.4	---	---	---	9.1	6.7	7.7	---	---	---

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

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.0	7.3	7.5	8.7	7.1	7.6	10.4	10.0	10.2	10.0	9.6	9.8
2	8.0	7.3	7.5	8.5	7.1	7.7	10.8	9.9	10.3	9.7	9.1	9.4
3	8.0	7.2	7.5	8.8	6.9	7.6	11.0	10.7	10.8	9.9	9.1	9.5
4	8.0	7.2	7.5	8.5	6.7	7.4	10.9	10.6	10.7	9.8	9.4	9.6
5	8.0	7.1	7.4	8.1	6.6	7.2	10.9	10.5	10.7	9.8	9.5	9.7
6	7.9	7.1	7.4	8.1	6.7	7.3	10.8	10.1	10.5	9.8	8.9	9.4
7	7.9	7.1	7.4	8.6	7.0	7.6	11.0	10.1	10.5	9.5	9.0	9.3
8	7.9	7.1	7.4	8.3	7.0	7.5	11.0	10.1	10.5	9.4	9.0	9.3
9	8.0	7.0	7.4	8.5	7.0	7.6	11.1	10.2	10.6	9.5	9.3	9.4
10	7.9	7.0	7.4	8.6	7.0	7.6	11.1	10.2	10.6	9.6	9.2	9.4
11	8.0	7.0	7.4	8.7	7.0	7.8	10.9	9.9	10.4	9.6	9.4	9.5
12	8.1	7.0	7.4	8.3	6.9	7.5	10.7	9.9	10.2	9.7	9.4	9.5
13	8.2	7.0	7.4	8.4	6.8	7.4	11.0	10.0	10.5	9.9	9.6	9.7
14	8.1	6.9	7.4	8.5	6.9	7.5	10.8	10.1	10.4	9.9	9.6	9.7
15	8.1	6.9	7.3	8.6	7.1	7.6	11.1	10.1	10.6	10.1	9.8	9.9
16	8.1	6.8	7.3	8.5	6.7	7.5	11.3	10.5	10.8	10.1	9.6	9.8
17	8.1	6.8	7.3	8.4	6.7	7.4	11.3	10.6	10.9	10.1	9.8	9.9
18	8.6	6.8	7.5	8.2	6.5	7.2	11.3	10.3	10.8	10.2	10.0	10.1
19	8.6	7.2	7.7	8.7	7.0	7.8	11.1	10.3	10.7	10.4	10.1	10.3
20	8.5	7.2	7.7	8.7	7.2	7.9	11.2	10.2	10.7	10.5	10.2	10.3
21	8.6	7.1	7.7	8.6	7.0	7.6	10.9	9.7	10.3	10.4	9.9	10.2
22	8.7	7.1	7.7	8.6	7.1	7.8	10.5	9.6	10.0	10.0	9.6	9.8
23	8.6	7.2	7.7	9.7	7.2	8.5	10.4	9.6	9.9	9.7	8.8	9.1
24	8.5	7.2	7.7	10.0	8.9	9.4	10.3	9.6	9.9	8.9	8.8	8.9
25	8.9	7.1	7.8	10.4	9.5	10.0	10.2	9.4	9.8	9.0	8.8	8.9
26	8.6	7.0	7.6	10.5	10.2	10.4	10.2	9.4	9.8	9.0	8.8	8.9
27	8.4	6.8	7.5	10.5	10.1	10.3	10.3	9.4	9.8	9.2	8.9	9.0
28	8.5	6.9	7.6	10.4	10.1	10.3	10.2	9.4	9.8	9.2	8.9	9.0
29	---	---	---	10.4	10.1	10.2	10.2	9.7	9.9	9.0	8.8	8.9
30	---	---	---	10.4	10.1	10.2	10.1	9.6	9.9	9.1	8.9	9.0
31	---	---	---	10.3	10.1	10.2	---	---	---	9.0	8.5	8.8
MONTH	8.9	6.8	7.5	10.5	6.5	8.2	11.3	9.4	10.4	10.5	8.5	9.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.7	8.4	8.5	11.0	8.7	9.7	8.4	7.6	8.0	8.9	8.4	8.6
2	8.9	8.5	8.7	11.8	8.7	10.1	8.8	7.7	8.2	9.3	8.4	8.7
3	9.1	8.6	8.8	11.9	9.5	10.3	8.5	7.4	7.9	9.2	8.3	8.6
4	9.1	8.5	8.7	11.5	9.4	10.3	8.2	7.4	7.7	9.3	8.8	9.0
5	8.8	8.6	8.7	11.4	9.3	10.1	8.3	7.2	7.8	9.5	8.8	9.2
6	8.8	8.6	8.7	11.2	9.2	9.9	8.7	7.4	8.0	9.4	8.7	9.1
7	8.8	8.6	8.7	11.1	9.0	9.9	8.6	7.3	8.1	9.1	8.7	8.9
8	8.9	8.6	8.7	10.9	8.9	9.7	9.1	7.6	8.2	---	---	---
9	8.9	8.7	8.8	10.5	8.8	9.5	9.2	8.2	8.7	9.3	---	---
10	9.0	8.5	8.7	10.6	8.8	9.4	9.3	8.1	8.7	9.3	8.9	9.1
11	9.1	8.6	8.8	10.4	8.8	9.4	9.4	8.5	8.9	9.3	9.0	9.1
12	9.2	8.8	9.0	10.2	8.7	9.3	9.1	8.2	8.6	9.2	8.9	9.0
13	9.4	8.9	9.1	10.0	8.4	9.1	9.1	8.2	8.6	9.1	8.9	9.0
14	9.4	8.9	9.1	10.1	8.6	9.2	9.1	8.1	8.5	9.2	8.9	9.0
15	9.5	8.9	9.1	9.9	8.6	9.2	9.0	8.1	8.4	9.1	8.8	8.9
16	9.4	8.8	9.0	10.3	8.7	9.4	8.8	7.7	8.2	9.1	8.8	8.9
17	9.7	8.9	9.2	10.3	8.5	9.4	8.4	7.6	7.9	9.0	8.7	8.8
18	9.7	9.1	9.3	10.3	8.5	9.3	8.4	7.6	7.9	8.9	8.6	8.8
19	9.7	9.1	9.3	10.2	8.6	9.3	8.4	7.3	7.8	8.9	8.6	8.7
20	9.8	9.1	9.3	10.2	8.5	9.3	8.3	7.3	7.7	8.9	8.6	8.7
21	9.8	9.0	9.3	10.0	8.5	9.1	8.4	7.3	7.7	8.9	8.5	8.7
22	9.7	9.0	9.3	---	---	---	8.1	7.2	7.6	8.9	8.6	8.7
23	10.0	9.1	9.5	---	---	---	8.1	7.3	7.6	8.9	8.6	8.7
24	10.1	9.2	9.6	9.7	8.3	8.8	8.3	7.4	7.7	8.9	8.6	8.7
25	10.1	9.1	9.6	9.6	8.3	8.8	8.1	7.1	7.6	8.8	8.5	8.6
26	10.3	9.2	9.6	9.4	8.2	8.7	8.7	7.1	7.9	8.9	8.5	8.7
27	10.4	9.1	9.6	9.5	8.1	8.7	8.8	8.2	8.6	9.0	8.6	8.7
28	10.4	9.2	9.7	9.6	8.0	8.9	8.5	8.2	8.4	9.0	8.3	8.6
29	10.5	9.2	9.7	9.1	8.1	8.6	8.6	8.3	8.5	9.0	8.1	8.4
30	10.7	8.9	9.7	9.0	7.6	8.2	8.7	8.4	8.5	9.1	8.0	8.4
31	---	---	---	8.3	7.3	7.9	8.6	8.4	8.5	---	---	---
MONTH	10.7	8.4	9.1	---	---	---	9.4	7.1	8.1	---	---	---

09041900 MONTE CRISTO DIVERSION NEAR HOOSIER PASS, CO

LOCATION.--Lat 39°22'51", long 106°04'15", in NE¼SE¼ 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 good 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 SW¼NE¼ sec.2, T.8 S., R.78 W. The entire flow is regulated by diversion gates.

COOPERATION.--Gage-height record collected in cooperation with city of Colorado Springs.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	---	---	---	---	---	e.00	e.00	4.4	1.6	e.00	e.00
2	48	---	---	---	---	---	e.00	e.00	4.9	1.6	e.00	e.00
3	54	---	---	---	---	---	e.00	e.00	4.8	1.7	e.00	e.00
4	55	---	---	---	---	---	e.00	e.00	3.8	1.8	e.00	e.00
5	54	---	---	---	---	---	e.00	e.00	2.6	1.7	e.00	e3.8
6	54	---	---	---	---	---	e.00	e.00	1.8	1.9	e.00	22
7	56	---	---	---	---	---	e.00	e.00	1.6	1.9	e3.8	32
8	54	---	---	---	---	---	e.00	e.00	1.5	2.1	7.4	31
9	51	---	---	---	---	---	e.00	e.00	1.4	3.5	e8.3	31
10	47	---	---	---	---	---	e.00	e.00	1.4	9.7	e11	31
11	45	---	---	---	---	---	e.00	e.00	1.3	8.1	e11	30
12	47	---	---	---	---	---	e.00	e.00	1.4	4.5	e11	30
13	40	---	---	---	---	---	e.00	e3.7	1.4	12	e6.3	30
14	30	---	---	---	---	---	e.00	5.3	1.3	26	e4.9	29
15	22	---	---	---	---	---	e.00	2.5	1.3	22	e4.9	29
16	7.8	---	---	---	---	---	e.00	2.6	1.2	18	e6.1	30
17	1.5	---	---	---	---	---	e.00	3.2	1.2	19	e6.3	36
18	.74	---	---	---	---	---	e.00	3.9	e1.3	18	e5.9	48
19	.47	---	---	---	---	---	e.00	4.8	e1.4	18	e5.7	47
20	e.00	---	---	---	---	---	e.00	6.3	e1.3	16	e5.5	46
21	e.00	---	---	---	---	---	e.00	6.3	1.4	15	e5.7	45
22	e.00	---	---	---	---	---	e.00	4.4	1.5	28	e6.1	44
23	e.00	---	---	---	---	---	e.00	2.9	1.6	e39	e5.1	42
24	e.00	---	---	---	---	---	e.00	2.7	1.5	e.28	e4.9	41
25	e.00	---	---	---	---	---	e.00	2.8	1.2	e.09	e5.1	40
26	e.00	---	---	---	---	---	e.00	4.3	1.2	e.17	e4.1	38
27	e.00	---	---	---	---	---	e.00	4.4	1.3	e.00	e.00	36
28	e.00	---	---	---	---	---	e.00	5.0	1.3	e.00	e.00	35
29	e.00	---	---	---	---	---	e.00	5.7	1.4	e.00	e.00	34
30	e.00	---	---	---	---	---	e.00	4.9	1.5	e.00	e.00	32
31	e.00	---	---	---	---	---	---	4.0	---	e.00	e.00	---
TOTAL	714.51	---	---	---	---	---	0.00	79.70	55.2	271.64	129.10	892.80
MEAN	23.0	---	---	---	---	---	.000	2.57	1.84	8.76	4.16	29.8
MAX	56	---	---	---	---	---	.00	6.3	4.9	39	11	48
MIN	.00	---	---	---	---	---	.00	.00	1.2	.00	.00	.00
AC-FT	1420	---	---	---	---	---	.00	158	109	539	256	1770

e-Estimated.

09044300 BEMROSE-HOOSIER DIVERSION NEAR HOOSIER PASS, CO

LOCATION.--Lat 39°22'50", long 106°04'13", in NE¼SE¼ 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 SW¼SW¼ sec.6, T.8 S., R.77 W., and in sec.12, T.8 S., R.78 W. The entire flow is regulated by diversion gates.

COOPERATION.--Gage-height record collected in cooperation with City of Colorado Springs.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.00	---	---	---	---	---	e.00	e.00	10	7.5	e.94	3.2
2	e.00	---	---	---	---	---	e.00	e.00	12	7.2	e.00	2.6
3	e.00	---	---	---	---	---	e.00	e.00	13	7.0	e.00	2.5
4	e.00	---	---	---	---	---	e.00	e.00	11	7.0	e.00	2.4
5	e.00	---	---	---	---	---	e.00	e.00	9.2	6.6	e.00	2.4
6	e.00	---	---	---	---	---	e.00	e.00	8.3	6.7	e.95	2.3
7	e.00	---	---	---	---	---	e.00	e.00	8.0	6.4	4.3	2.3
8	e.00	---	---	---	---	---	e.00	e.00	8.0	6.7	5.6	e1.2
9	e.00	---	---	---	---	---	e.00	e.00	8.1	11	6.1	e.00
10	e.00	---	---	---	---	---	e.00	e.00	7.9	15	6.0	e.42
11	e.00	---	---	---	---	---	e.00	e.00	7.4	12	6.0	e1.7
12	e.00	---	---	---	---	---	e.00	e.00	7.7	9.8	5.5	e1.7
13	e.00	---	---	---	---	---	e.00	2.3	7.8	9.1	5.0	e1.7
14	e.00	---	---	---	---	---	e.00	2.5	7.4	8.5	4.8	1.7
15	e.00	---	---	---	---	---	e.00	2.2	7.5	8.0	4.5	1.9
16	e.00	---	---	---	---	---	e.00	2.8	7.8	7.4	4.3	2.2
17	e.00	---	---	---	---	---	e.00	3.2	7.8	6.8	4.2	1.9
18	e.00	---	---	---	---	---	e.00	4.0	7.0	6.3	4.1	1.8
19	e.00	---	---	---	---	---	e.00	4.3	7.7	5.9	4.1	1.6
20	e.00	---	---	---	---	---	e.00	5.2	8.0	5.5	4.0	1.6
21	e.00	---	---	---	---	---	e.00	5.6	8.4	5.7	3.9	1.6
22	e.00	---	---	---	---	---	e.00	5.0	8.9	6.0	3.7	1.6
23	e.00	---	---	---	---	---	e.00	4.8	8.7	e3.2	3.5	1.5
24	e.00	---	---	---	---	---	e.00	4.7	8.3	e.00	3.9	1.5
25	e.00	---	---	---	---	---	e.00	4.8	8.3	e.00	4.0	1.5
26	e.00	---	---	---	---	---	e.00	5.5	8.1	e.00	3.1	1.5
27	e.00	---	---	---	---	---	e.00	6.3	8.2	e.00	2.5	1.4
28	e.00	---	---	---	---	---	e.00	7.6	8.0	e1.4	2.3	1.4
29	e.00	---	---	---	---	---	e.00	8.9	7.7	e.05	2.3	e.95
30	e.00	---	---	---	---	---	e.00	9.4	7.8	e.00	2.3	e.00
31	e.00	---	---	---	---	---	---	9.3	---	e1.3	2.5	---
TOTAL	0.00	---	---	---	---	---	0.00	98.40	254.0	178.05	104.39	50.07
MEAN	.000	---	---	---	---	---	.000	3.17	8.47	5.74	3.37	1.67
MAX	.00	---	---	---	---	---	.00	9.4	13	15	6.1	3.2
MIN	.00	---	---	---	---	---	.00	.00	7.0	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.00	195	504	353	207	99

e-Estimated.

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

LOCATION.--Lat 39°22'51", long 106°04'14", in NE¼SE¼ 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e.00	e.00	24	80	e.00	e.00
2	---	---	---	---	---	---	e.00	e.00	24	72	e.00	e.00
3	---	---	---	---	---	---	e.00	e.00	24	69	e.00	e.00
4	---	---	---	---	---	---	e.00	e.00	16	67	e.00	e.00
5	---	---	---	---	---	---	e.00	e.00	e4.9	63	e.00	e.00
6	---	---	---	---	---	---	e.00	e.00	e.13	70	e.00	e.00
7	---	---	---	---	---	---	e.00	e.00	e.65	61	e1.2	e.00
8	---	---	---	---	---	---	e.00	e.00	e.46	58	6.4	e.00
9	---	---	---	---	---	---	e.00	e.00	e.79	79	7.7	e.00
10	---	---	---	---	---	---	e.00	e.00	e.88	118	9.8	e.00
11	---	---	---	---	---	---	e.00	e.00	e.39	101	12	e.00
12	---	---	---	---	---	---	e.00	e.00	e.06	68	11	e.00
13	---	---	---	---	---	---	e.00	e.00	e.39	54	4.2	e.00
14	---	---	---	---	---	---	e.00	e.00	e.06	48	3.2	e.00
15	---	---	---	---	---	---	e.00	e1.4	e.13	40	5.0	e.00
16	---	---	---	---	---	---	e.00	3.0	e.10	36	7.2	e.00
17	---	---	---	---	---	---	e.00	4.0	e.32	38	7.2	e.00
18	---	---	---	---	---	---	e.00	5.5	e.00	37	6.8	e.00
19	---	---	---	---	---	---	e.00	7.2	e.00	38	6.7	e.00
20	---	---	---	---	---	---	e.00	9.4	e.00	33	6.7	e.00
21	---	---	---	---	---	---	e.00	11	e3.3	32	6.6	e.00
22	---	---	---	---	---	---	e.00	8.7	12	54	7.0	e.00
23	---	---	---	---	---	---	e.00	6.2	15	78	6.5	e.00
24	---	---	---	---	---	---	e.00	5.8	13	e.83	6.4	e.00
25	---	---	---	---	---	---	e.00	6.4	22	e.22	6.5	e.00
26	---	---	---	---	---	---	e.00	11	41	e.33	e5.6	e.00
27	---	---	---	---	---	---	e.00	12	49	e.00	e.00	e.00
28	---	---	---	---	---	---	e.00	16	56	e.00	e.00	e.00
29	---	---	---	---	---	---	e.00	20	68	e.00	e.00	e.00
30	---	---	---	---	---	---	e.00	18	85	e.00	e.00	e.00
31	---	---	---	---	---	---	---	20	---	e.00	e.00	---
TOTAL	---	---	---	---	---	---	0.00	165.60	461.56	1395.38	133.70	0.00
MEAN	---	---	---	---	---	---	.000	5.34	15.4	45.0	4.31	.000
MAX	---	---	---	---	---	---	.00	20	85	118	12	.00
MIN	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	.00	328	916	2770	265	.00

e-Estimated.

09046490 BLUE RIVER AT BLUE RIVER, CO

LOCATION.--Lat 39°27'21", long 106°01'52", in NE¼SE¼ 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 mi^2 .

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

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

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

REMARKS.--Records good except for estimated daily discharges, which are poor. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	16	11	5.8	5.6	5.4	5.7	e21	101	41	123	45
2	24	15	11	5.6	6.3	5.2	6.8	e23	112	37	123	49
3	25	15	11	5.9	6.0	5.6	6.0	e32	120	35	95	40
4	24	15	10	5.9	5.7	5.7	5.6	e32	116	36	84	35
5	23	15	10	5.8	6.0	5.1	5.4	e42	104	35	78	31
6	22	14	9.9	6.3	5.7	4.6	5.9	e35	90	36	69	27
7	22	14	10	6.6	5.7	4.8	5.8	e38	80	37	60	25
8	24	14	10	6.1	5.8	e4.4	6.2	e32	75	34	43	24
9	22	14	10	5.5	5.8	4.3	5.7	e41	70	41	38	26
10	23	13	10	6.1	5.5	4.9	5.3	e46	73	55	39	25
11	23	14	9.7	6.4	e5.6	4.5	5.6	e50	69	51	39	24
12	25	14	8.5	6.5	5.9	4.2	6.2	e44	71	39	37	25
13	22	14	9.8	6.3	5.4	4.2	6.2	e47	80	33	36	29
14	23	14	9.3	6.5	5.4	4.2	6.5	e45	74	30	37	27
15	25	11	9.0	5.8	5.3	4.2	6.6	37	69	27	34	26
16	23	10	9.3	6.9	5.5	4.1	6.6	33	63	26	28	33
17	21	10	8.9	6.7	5.4	4.5	6.0	37	61	24	27	39
18	21	11	8.7	6.4	5.6	5.8	6.4	41	60	23	27	33
19	20	11	8.3	5.4	5.2	4.9	5.8	49	57	22	25	29
20	20	12	7.6	6.7	e5.2	4.6	7.2	54	68	21	24	26
21	20	12	7.5	e6.2	5.2	4.6	7.2	63	79	20	25	25
22	19	12	7.6	6.2	5.2	4.8	7.5	64	77	24	26	24
23	18	11	7.1	6.7	5.9	5.1	8.9	55	84	57	23	23
24	19	12	6.9	6.3	5.9	6.1	12	53	81	163	21	22
25	17	11	6.8	6.7	6.5	7.3	14	51	69	201	22	21
26	16	11	6.7	5.7	5.4	8.0	13	57	60	193	24	20
27	17	11	6.2	5.4	5.2	7.8	11	66	58	134	32	20
28	18	11	6.2	6.1	6.1	6.6	e11	79	57	107	34	19
29	18	10	6.0	5.9	---	6.1	e11	93	53	133	30	20
30	18	10	5.8	6.6	---	5.7	e14	103	44	110	28	23
31	18	---	5.8	6.2	---	6.3	---	97	---	98	28	---
TOTAL	655	377	264.6	191.2	158.0	163.6	231.1	1560	2275	1923	1359	835
MEAN	21.1	12.6	8.54	6.17	5.64	5.28	7.70	50.3	75.8	62.0	43.8	27.8
MAX	25	16	11	6.9	6.5	8.0	14	103	120	201	123	49
MIN	16	10	5.8	5.4	5.2	4.1	5.3	21	44	20	21	19
AC-FT	1300	748	525	379	313	325	458	3090	4510	3810	2700	1660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1998, BY WATER YEAR (WY)

MEAN	19.4	13.4	9.90	7.29	5.74	5.32	11.6	62.4	125	88.3	47.4	27.1
MAX	32.2	26.5	18.9	14.3	8.11	7.96	21.9	128	276	327	120	44.3
(WY)	1985	1985	1985	1985	1985	1985	1989	1996	1995	1995	1995	1984
MIN	13.5	8.62	6.96	4.67	4.12	3.68	5.53	26.0	63.1	23.0	18.0	14.2
(WY)	1992	1992	1995	1995	1991	1993	1993	1995	1992	1991	1986	1986

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1984 - 1998	
ANNUAL TOTAL	18670.7		9992.5			
ANNUAL MEAN	51.2		27.4		35.4	
HIGHEST ANNUAL MEAN					70.4	1995
LOWEST ANNUAL MEAN					20.5	1990
HIGHEST DAILY MEAN	283	Jun 22	201	Jul 25	578	Jul 12 1995
LOWEST DAILY MEAN	4.0	Mar 11	4.1	Mar 16	a3.1	Mar 15 1992
ANNUAL SEVEN-DAY MINIMUM	4.1	Mar 10	4.3	Mar 11	3.2	Mar 10 1992
INSTANTANEOUS PEAK FLOW			261	Jul 25	681	Jun 18 1995
INSTANTANEOUS PEAK STAGE			2.35	Jul 25	3.23	Jun 18 1995
ANNUAL RUNOFF (AC-FT)	37030		19820		25610	
10 PERCENT EXCEEDS	146		69		88	
50 PERCENT EXCEEDS	16		17		15	
90 PERCENT EXCEEDS	5.4		5.5		5.2	

e-Estimated.
a-Also occurred Mar 13, 1993, and Apr 3, 1994.

09046530 FRENCH GULCH AT BRECKENRIDGE, CO

LOCATION (REVISED).--Lat. 39°29'35" , long.106°02'39", in SE¼SW¼, 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 mi^2.

WATER-DISCHARGE RECORDS

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

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	3.9	3.1	2.0	e2.0	e1.9	e2.2	3.8	23	28	18	7.2
2	5.4	3.9	3.0	2.1	e1.9	e1.9	2.3	4.0	26	25	19	7.3
3	5.4	3.5	3.1	2.1	1.9	e1.8	2.1	4.6	29	24	17	6.8
4	5.3	3.9	2.9	2.1	1.9	1.8	2.1	5.5	30	22	17	6.5
5	5.2	3.6	2.9	2.1	1.9	1.8	2.1	6.2	24	21	15	6.1
6	5.1	3.7	3.0	2.2	1.9	e1.7	2.0	6.1	20	21	14	6.0
7	5.0	3.7	2.9	e2.2	2.0	1.7	1.9	5.6	18	20	13	5.8
8	5.2	3.7	2.8	2.2	1.9	e1.7	2.0	5.5	20	18	12	5.7
9	5.1	3.8	2.7	2.2	1.9	1.7	2.0	5.8	19	20	12	5.7
10	5.0	3.5	2.7	2.2	1.9	1.7	1.8	6.5	20	22	12	5.6
11	4.9	3.7	2.6	2.1	e1.8	1.7	2.2	7.9	20	23	11	5.4
12	5.2	3.6	e2.6	2.2	e1.8	e1.7	2.5	7.9	20	19	11	5.8
13	5.0	3.4	2.6	2.1	e1.9	e1.7	2.6	8.4	21	17	10	6.5
14	4.9	3.2	2.6	2.2	e1.9	e1.8	2.6	10	20	15	9.6	5.9
15	4.9	2.5	2.5	2.2	e1.9	e1.9	2.4	9.3	19	14	9.2	5.7
16	4.7	2.3	2.5	2.1	e1.9	1.9	2.4	9.0	18	14	8.7	6.5
17	4.6	2.6	2.4	e2.1	e1.9	1.8	2.3	9.8	18	14	8.4	7.1
18	4.5	3.0	2.4	e2.1	1.9	1.7	2.3	11	17	13	8.3	6.4
19	4.3	3.2	2.4	2.2	1.9	e1.7	2.2	12	17	13	7.9	6.2
20	4.3	3.2	e2.4	2.2	1.8	e1.8	2.2	14	20	12	7.6	6.1
21	4.3	3.3	e2.3	2.0	e1.9	e1.9	2.1	15	21	12	7.8	5.9
22	4.2	3.3	2.2	2.0	1.9	2.0	2.2	16	24	13	7.7	5.7
23	4.1	3.2	e2.2	2.0	1.9	1.9	2.6	14	24	21	7.3	5.5
24	4.3	3.3	e2.2	2.1	1.9	2.3	3.1	13	24	22	7.2	5.4
25	4.2	3.2	e2.2	2.1	e1.9	2.7	3.4	13	22	26	7.1	5.2
26	4.3	3.1	e2.1	2.0	1.9	2.8	3.3	14	24	21	7.2	5.0
27	4.1	3.1	e2.1	2.0	1.9	2.5	3.1	15	24	19	6.9	4.9
28	4.2	3.1	e2.1	2.0	1.9	2.4	3.3	19	25	17	6.5	4.8
29	4.1	3.1	e2.0	e2.0	---	2.4	3.4	18	25	18	6.3	4.8
30	4.0	3.1	2.0	1.9	---	e2.3	3.6	22	27	16	6.1	4.9
31	4.0	---	2.0	2.0	---	2.1	---	22	---	16	6.0	---
TOTAL	145.2	99.7	77.5	65.0	53.1	60.7	74.3	333.9	659	576	316.8	176.4
MEAN	4.68	3.32	2.50	2.10	1.90	1.96	2.48	10.8	22.0	18.6	10.2	5.88
MAX	5.4	3.9	3.1	2.2	2.0	2.8	3.6	22	30	28	19	7.3
MIN	4.0	2.3	2.0	1.9	1.8	1.7	1.8	3.8	17	12	6.0	4.8
AC-FT	288	198	154	129	105	120	147	662	1310	1140	628	350

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1998, BY WATER YEAR (WY)

MEAN	4.95	3.26	2.57	1.96	1.90	2.02	3.45	23.3	51.7	19.7	10.3	6.34
MAX	5.15	3.32	2.74	2.10	2.04	2.09	4.07	38.8	75.0	20.9	12.4	6.94
(WY)	1996	1998	1996	1998	1996	1997	1997	1996	1997	1997	1997	1997
MIN	4.68	3.14	2.47	1.87	1.76	1.96	2.48	10.8	22.0	18.6	8.17	5.88
(WY)	1998	1996	1997	1997	1997	1998	1998	1998	1998	1998	1996	1998

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1996 - 1998	
ANNUAL TOTAL	4735.1		2637.6			
ANNUAL MEAN	13.0		7.23		11.0	
HIGHEST ANNUAL MEAN					13.0	1997
LOWEST ANNUAL MEAN					7.23	1998
HIGHEST DAILY MEAN	115	Jun 5	30	Jun 4	115	Jun 5 1997
LOWEST DAILY MEAN	e1.3	Mar 7	e,a1.7	Mar 6	e1.3	Mar 7 1997
ANNUAL SEVEN-DAY MINIMUM	1.4	Mar 2	1.7	Mar 6	1.4	Mar 2 1997
INSTANTANEOUS PEAK FLOW			b33	Jun 4	124	Jun 5 1997
INSTANTANEOUS PEAK STAGE			6.32	Jun 4	7.09	Jun 5 1997
ANNUAL RUNOFF (AC-FT)	9390		5230		7940	
10 PERCENT EXCEEDS	34		20		26	
50 PERCENT EXCEEDS	4.5		4.0		4.3	
90 PERCENT EXCEEDS	1.8		1.9		1.9	

e-Estimated.
a-Also occurred Mar 6-13, 18-19 (some days are estimated).
b-Also occurred Jul 24.

09046530 FRENCH GULCH AT BRECKENRIDGE, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1995 to September 1998 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1996 to September 1998 (discontinued).

INSTRUMENTATION.--Water temperature sensor and logger October 1996 to September 1998 (discontinued).

REMARKS.--Upper Colorado River Basin National Water Quality Assessment Program station (NAWQA). Daily water temperature data are good. Data not published are missing.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 10.9°C, Aug. 30, 1998; minimum, 0.0°C on many days each winter.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 10.9°C, Aug. 30; minimum, 0.0°C on many days December to April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT											
23...	1355	4.3	263	7.7	5.5	9.6	110	35	5.4	2.0	0.1
NOV											
19...	1430	3.3	288	7.8	2.5	10.4	120	36	6.2	2.1	0.1
DEC											
15...	1545	2.6	330	7.7	0.5	10.4	130	41	7.2	2.2	0.1
JAN											
20...	1500	2.2	322	7.8	0.5	9.4	140	43	7.4	2.1	0.1
FEB											
17...	1245	1.9	361	7.7	1.5	9.6	160	48	8.7	2.3	0.1
MAR											
19...	1515	1.7	373	7.4	2.0	9.8	160	51	9.0	2.9	0.1
23...	1145	2.2	372	7.5	3.5	9.4	160	50	8.9	3.5	0.1
APR											
21...	1255	2.2	375	7.8	5.0	9.4	160	51	8.9	2.6	0.1
MAY											
07...	1245	5.7	331	7.6	3.0	9.6	140	44	7.5	2.3	0.1
18...	1425	10	254	7.8	5.0	9.3	110	34	5.2	1.9	0.1
JUN											
02...	0820	27	155	7.5	4.0	8.7	67	22	3.1	1.4	0.1
10...	1115	20	181	7.7	5.0	9.2	75	24	3.5	1.5	0.1
16...	1130	18	181	7.7	5.5	9.0	75	24	3.5	1.5	0.1
JUL											
29...	1255	18	164	7.6	7.5	8.8	71	23	3.2	1.5	0.1
AUG											
05...	1200	16	162	7.6	8.5	8.2	71	23	3.3	1.5	0.1
SEP											
17...	1505	6.9	221	7.9	9.0	8.2	93	30	4.6	1.9	0.1

09046530 FRENCH GULCH AT BRECKENRIDGE, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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 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)
OCT										
23...	0.9	38	32	81	1.0	<0.1	9.1	176	161	0.24
NOV										
19...	0.9	41	34	96	1.0	<0.1	8.7	194	175	0.26
DEC										
15...	0.9	41	34	110	1.2	<0.1	8.9	208	191	0.28
JAN										
20...	0.9	44	36	110	1.3	<0.1	8.8	224	200	0.30
FEB										
17...	0.9	40	33	130	1.2	0.1	9.0	250	228	0.34
MAR										
19...	1.1	37	31	140	2.1	<0.1	9.1	252	236	0.34
23...	1.1	35	29	140	3.4	<0.1	8.9	248	233	0.34
APR										
21...	0.9	37	30	140	2.1	<0.1	9.4	252	234	0.34
MAY										
07...	0.8	41	34	110	1.6	<0.1	8.9	229	199	0.31
18...	0.8	46	38	73	1.3	<0.1	8.2	166	150	0.23
JUN										
02...	0.6	38	31	39	0.7	<0.1	7.4	105	94	0.14
10...	0.6	43	35	42	0.6	<0.1	7.6	112	103	0.15
16...	0.6	40	33	44	1.0	<0.1	7.5	117	105	0.16
JUL										
29...	0.6	41	34	37	0.5	<0.1	7.7	108	96	0.15
AUG										
05...	0.6	43	35	40	0.7	<0.1	7.6	107	100	0.15
SEP										
17...	0.8	44	36	60	1.0	<0.1	8.6	141	130	0.19

DATE	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)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)
OCT											
23...	2.04	<0.01	0.07	<0.01	<0.2	<0.2	<0.01	<0.01	<0.01	0.6	<0.2
NOV											
19...	1.73	<0.01	0.09	--	<0.1	<0.1	<0.01	<0.01	0.01	0.5	<0.2
DEC											
15...	1.49	<0.01	<0.05	<0.02	<0.1	<0.1	0.01	<0.01	<0.01	0.4	<0.2
JAN											
20...	1.31	0.01	0.07	<0.02	<0.1	<0.1	<0.01	<0.01	<0.01	0.6	<0.2
FEB											
17...	1.28	<0.01	0.11	<0.02	<0.1	0.1	<0.01	<0.01	0.01	0.4	<0.2
MAR											
19...	1.16	<0.01	0.10	0.02	<0.1	<0.1	<0.01	<0.01	<0.01	0.4	0.2
23...	1.48	<0.01	0.10	0.09	0.2	0.1	<0.01	<0.01	<0.01	1.0	0.9
APR											
21...	1.46	<0.01	0.13	0.03	<0.1	<0.1	<0.01	0.02	<0.01	0.4	<0.2
MAY											
07...	3.49	<0.01	0.13	<0.02	<0.1	<0.1	<0.01	<0.01	<0.01	0.4	<0.2
18...	4.62	0.01	0.16	0.04	<0.1	<0.1	<0.01	<0.01	0.01	0.7	<0.2
JUN											
02...	7.65	--	--	--	--	--	--	--	--	0.8	<0.2
10...	6.11	<0.01	0.07	<0.02	<0.1	<0.1	0.01	<0.01	<0.01	0.8	<0.2
16...	5.69	<0.01	0.14	0.04	<0.1	<0.1	<0.01	<0.01	0.01	0.8	<0.2
JUL											
29...	5.25	<0.01	0.08	<0.02	<0.1	<0.1	<0.01	<0.01	<0.01	0.5	<0.2
AUG											
05...	4.71	<0.01	0.09	0.04	<0.1	<0.1	<0.01	<0.01	<0.01	0.4	<0.2
SEP											
17...	2.63	<0.01	0.14	<0.02	<0.1	<0.1	<0.05	<0.05	<0.01	0.4	0.2

09046530 FRENCH GULCH AT BRECKENRIDGE, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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)	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)
OCT									
23...	5	<1	<1	20	<1	6	<1	<1	<1
NOV									
19...	18	<1	<1	22	<1	7	<1	<1	1
DEC									
15...	5	<1	<1	22	<1	7	<1	<1	<1
JAN									
20...	4	<1	<1	26	<1	7	<1	<1	<1
FEB									
17...	4	<1	<1	28	<1	9	<1	<1	1
MAR									
19...	5	<1	<1	30	<1	9	<1	<1	1
23...	3	<1	<1	31	<1	9	<1	<1	1
APR									
21...	13	<1	<1	32	<1	9	<1	<1	2
MAY									
07...	14	<1	<1	24	<1	7	<1	<1	2
18...	9	<1	<1	18	<1	5	<1	<1	1
JUN									
02...	7	<1	<1	10	<1	5	<1	<1	2
10...	5	<1	<1	11	<1	4	<1	<1	1
16...	5	<1	<1	11	<1	4	<1	<1	1
JUL									
29...	4	<1	<1	12	<1	3	<1	<1	<1
AUG									
05...	4	<1	<1	13	<1	3	<1	<1	<1
SEP									
17...	4	<1	<1	17	<1	4	<1	<1	<1

DATE	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)	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)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
OCT									
23...	13	5	26	<1	3	<1	<1	2700	<1
NOV									
19...	19	5	24	<1	3	<1	<1	3100	<1
DEC									
15...	14	6	28	<1	4	<1	<1	3600	<1
JAN									
20...	<10	7	15	<1	3	<1	<1	3500	<1
FEB									
17...	12	7	24	<1	4	<1	<1	4200	<1
MAR									
19...	10	5	35	<1	4	<1	<1	4200	<1
23...	<10	2	60	<1	5	<1	<1	4200	<1
APR									
21...	40	2	38	<1	4	<1	<1	3700	<1
MAY									
07...	20	2	32	<1	4	<1	<1	3300	<1
18...	<10	2	38	<1	2	<1	<1	2100	<1
JUN									
02...	14	1	100	<1	1	<1	<1	1600	<1
10...	15	2	92	<1	1	<1	<1	1500	<1
16...	12	2	86	<1	2	<1	<1	1600	<1
JUL									
29...	11	2	41	<1	1	<1	<1	1200	<1
AUG									
05...	16	2	36	<1	1	--	<1	1300	<1
SEP									
17...	<10	3	29	<1	2	<1	<1	1600	<1

09046530 FRENCH GULCH AT BRECKENRIDGE, CO--Continued

(National Water-Quality Assessment Program station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SAMPLER[b] TYPE (CODE) (84164)
OCT					
23...	1340	4.3	<1	<0.01	3044
23...	1355	4.3	a<1	<0.01	3045
NOV					
19...	1415	3.3	1	0.01	3044
19...	1430	3.3	a1	0.01	3045
DEC					
15...	1535	2.7	<1	<0.01	3044
15...	1545	2.7	a<1	<0.01	3045
JAN					
20...	1455	2.1	<1	<0.01	3044
20...	1500	2.2	a<1	<0.01	3045
FEB					
17...	1245	1.9	a1	0.01	3045
MAR					
19...	1515	1.7	a3	0.01	8010
23...	1140	2.2	30	0.18	8010
23...	1145	2.2	a35	0.21	8010
APR					
21...	1255	2.2	a2	0.01	8010
21...	1300	2.2	3	0.02	8010
MAY					
07...	1245	5.7	a<1	<0.01	3044
18...	1425	10	a1	0.01	3044
JUN					
02...	0820	27	a2	0.13	3044
10...	1115	20	a1	0.01	3044
16...	1130	18	a1	0.05	3044
JUL					
29...	1255	18	a1	0.05	3045
AUG					
05...	1200	16	a1	0.04	3044
SEP					
17...	1505	6.9	a2	0.04	3045

a-Suspended-sediment concentrations were determined from a subsample split of a composite sample.

b-Code 3044 is a DH-81 suspended-sediment sampler; code 3045 is a DH-81 water-quality sampler; code 8010 is an open bottle sampler.

09046530 FRENCH GULCH AT BRECKENRIDGE, CO--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE WATER, (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.4	6.1	7.1	3.0	1.6	2.1	2.2	.8	1.3	.9	.1	.4
2	8.7	6.1	7.1	3.3	1.6	2.0	2.0	.4	1.0	1.1	.4	.7
3	9.0	6.3	7.0	3.9	1.4	2.3	1.6	.3	.8	1.4	.6	.9
4	8.4	5.5	6.7	3.9	2.0	2.6	1.6	.1	.6	1.4	.1	.6
5	8.6	5.6	6.7	4.2	2.0	2.7	1.7	.1	.7	.9	.0	.4
6	8.4	5.6	6.7	4.4	2.0	2.8	1.9	.3	.8	.9	.0	.4
7	8.0	5.8	6.6	4.4	2.0	2.8	1.6	.3	.9	.4	.0	.1
8	6.9	5.0	5.9	3.9	2.0	2.8	1.9	.3	1.0	.4	.0	.1
9	7.5	4.4	5.6	3.3	1.7	2.4	1.4	.4	.8	.4	.0	.1
10	7.7	4.9	6.0	3.0	1.7	2.2	1.2	.3	.6	.8	.0	.3
11	7.3	5.6	6.3	3.5	2.0	2.5	1.1	.0	.4	.9	.3	.5
12	5.6	3.6	4.6	3.3	1.9	2.4	.8	.0	.2	.9	.3	.5
13	5.5	3.1	4.0	2.8	1.4	2.1	1.1	.0	.4	1.1	.1	.4
14	6.3	3.1	4.4	2.5	.6	1.4	1.2	.0	.4	.9	.0	.3
15	6.4	3.6	4.6	2.5	.3	1.0	1.1	.0	.4	.8	.0	.3
16	6.6	3.8	4.8	2.2	.1	.9	1.1	.1	.5	.8	.0	.3
17	6.7	3.9	4.9	2.4	.9	1.4	1.4	.3	.7	.4	.0	.1
18	6.6	4.1	4.9	2.2	.9	1.4	1.7	.3	.7	.6	.0	.2
19	6.4	3.9	4.9	2.4	.9	1.5	1.4	.1	.5	.8	.1	.4
20	5.3	4.1	4.6	2.7	.6	1.5	.9	.0	.3	.6	.0	.3
21	6.1	3.8	4.6	2.0	.8	1.2	.9	.0	.2	.6	.0	.2
22	6.3	3.6	4.6	2.4	.6	1.2	.9	.0	.3	.6	.0	.2
23	5.5	3.6	4.3	2.5	.3	1.1	.6	.0	.1	.6	.1	.3
24	4.1	2.8	3.4	2.5	.8	1.3	.6	.0	.2	.8	.1	.3
25	3.3	2.2	2.6	2.8	.8	1.5	.4	.0	.1	.8	.1	.4
26	4.1	2.2	2.8	2.4	.9	1.5	.4	.0	.1	.9	.1	.4
27	4.7	1.9	3.0	2.4	.6	1.6	.3	.0	.0	1.1	.0	.4
28	4.7	2.4	3.1	2.5	.8	1.5	.3	.0	.1	1.1	.0	.4
29	4.4	2.4	3.2	2.4	.4	1.1	.6	.3	.5	1.1	.0	.3
30	4.6	2.7	3.3	2.4	.6	1.2	1.1	.3	.7	1.1	.0	.4
31	3.6	2.1	2.8	---	---	---	.9	.1	.4	1.1	.0	.4
MONTH	9.0	1.9	4.9	4.4	.1	1.8	2.2	.0	.5	1.4	.0	.4

		FEBRUARY			MARCH			APRIL			MAY	
1	1.1	.0	.2	.3	.0	.1	3.9	.0	1.2	4.6	1.6	2.5
2	.8	.0	.2	.6	.0	.2	1.7	.3	.6	4.7	1.6	2.7
3	1.6	.0	.6	.9	.0	.3	3.8	.1	1.5	5.0	1.9	3.0
4	1.4	.1	.6	.8	.0	.3	5.0	.1	1.7	4.9	1.9	3.1
5	1.4	.3	.7	1.7	.0	.5	3.8	.1	1.6	4.4	2.2	3.0
6	2.0	.2	.8	1.7	.0	.6	2.4	.3	1.0	3.5	2.2	2.5
7	1.2	.1	.6	.9	.0	.4	3.0	.1	1.1	4.1	2.0	2.6
8	1.9	.1	.7	1.6	.0	.4	3.1	.4	1.2	4.9	2.0	3.0
9	1.6	.0	.6	1.1	.0	.2	3.9	.3	1.6	4.9	2.5	3.3
10	1.4	.0	.3	1.4	.0	.4	5.3	.0	2.0	5.0	2.5	3.6
11	.8	.0	.2	1.9	.0	.6	5.6	.3	2.3	4.6	2.7	3.4
12	1.1	.0	.3	2.4	.0	.6	4.9	.4	1.7	4.6	2.5	3.4
13	1.2	.0	.4	2.7	.0	.7	4.9	.4	1.9	5.0	2.5	3.8
14	1.7	.0	.6	3.1	.0	.9	3.5	.7	1.5	4.1	2.8	3.4
15	1.6	.0	.6	2.7	.0	.9	4.4	.1	1.3	4.1	2.2	3.0
16	1.4	.3	.6	2.8	.0	1.1	3.9	.3	1.5	4.6	2.2	3.4
17	1.6	.0	.6	2.4	.3	1.0	3.6	.1	1.2	5.0	2.7	3.9
18	1.4	.1	.5	.8	.0	.3	3.0	.3	1.4	5.0	3.0	4.1
19	1.4	.0	.4	2.2	.0	.7	4.9	.3	1.8	5.0	2.8	4.1
20	1.2	.0	.3	3.3	.0	1.0	4.1	.4	1.7	5.3	3.1	4.3
21	1.6	.0	.4	3.3	.0	.9	5.5	.4	2.3	5.0	3.3	4.1
22	1.6	.0	.5	3.3	.3	1.3	5.9	.3	2.4	4.7	2.8	3.7
23	1.2	.1	.6	3.9	.5	1.5	5.9	.8	2.6	4.7	2.7	3.7
24	1.7	.1	.6	4.4	.3	1.7	5.0	1.1	2.5	4.4	2.8	3.6
25	.3	.0	.1	3.6	.4	1.6	4.2	1.4	2.3	5.0	2.7	3.9
26	.8	.0	.1	3.8	.4	1.5	3.3	1.0	1.9	5.2	3.1	4.2
27	.3	.0	.0	3.8	.6	1.6	5.0	.8	2.2	5.8	3.1	4.5
28	.3	.0	.1	3.8	.3	1.4	5.0	1.2	2.5	6.1	3.5	4.8
29	---	---	---	3.0	.1	1.2	5.0	1.1	2.6	5.8	3.8	4.8
30	---	---	---	2.2	.0	.7	4.6	1.4	2.6	5.6	3.8	4.7
31	---	---	---	2.4	.0	.6	---	---	---	5.5	3.5	4.6
MONTH	2.0	.0	.4	4.4	.0	.8	5.9	.0	1.8	6.1	1.6	3.6

09046530 FRENCH GULCH AT BRECKENRIDGE, CO--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE WATER, (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	5.9	3.6	4.9	8.1	6.4	7.4	8.3	7.0	7.6	8.7	7.5	8.0
2	6.1	3.8	5.0	8.1	6.4	7.2	8.1	6.1	7.0	8.9	6.9	7.8
3	5.9	3.8	5.0	7.3	6.1	6.8	8.3	6.4	7.3	10.1	6.9	8.3
4	5.1	3.7	4.2	7.3	5.9	6.6	8.3	6.6	7.4	10.4	7.3	8.7
5	3.8	3.0	3.4	7.7	5.8	6.8	9.3	6.7	7.9	10.7	7.7	8.9
6	4.4	2.5	3.5	7.3	6.4	6.8	9.3	6.7	8.0	10.4	7.7	8.8
7	5.6	3.3	4.5	7.0	5.9	6.4	9.2	6.9	8.1	10.7	7.5	8.8
8	5.3	3.9	4.5	7.7	5.9	6.8	9.6	7.0	8.2	10.1	7.8	8.8
9	5.8	3.6	4.8	7.3	6.4	6.8	9.2	7.3	8.2	9.5	7.7	8.5
10	5.3	3.8	4.6	7.8	6.1	6.8	8.7	7.3	7.9	9.8	7.2	8.3
11	4.9	3.8	4.1	8.6	5.8	7.1	8.7	7.0	7.8	10.1	7.3	8.5
12	5.6	3.3	4.4	8.9	6.4	7.6	8.9	6.6	7.8	9.5	7.8	8.4
13	5.9	4.2	4.8	8.9	6.6	7.7	9.5	6.7	7.9	8.6	6.9	7.7
14	4.4	3.6	4.0	8.7	6.6	7.7	9.6	6.7	7.9	9.8	7.3	8.2
15	5.6	3.3	4.3	8.4	6.6	7.5	9.3	7.0	8.1	9.5	7.2	8.2
16	6.1	3.9	5.0	9.3	6.6	7.9	9.8	7.2	8.4	9.8	7.0	8.1
17	6.3	4.4	5.1	9.8	6.9	8.3	9.6	7.2	8.3	---	---	---
18	6.1	3.8	4.7	9.8	7.2	8.4	9.2	7.2	8.2	---	---	---
19	6.9	3.9	5.4	9.3	7.2	8.2	9.5	7.2	8.3	---	---	---
20	6.7	4.6	5.7	9.5	7.0	8.2	10.0	7.3	8.5	---	---	---
21	6.7	5.0	5.7	9.5	7.2	8.1	8.9	7.5	8.1	---	---	---
22	6.9	4.7	5.8	8.6	7.0	7.8	9.8	7.2	8.4	---	---	---
23	7.0	4.7	5.9	8.1	7.2	7.6	10.3	7.5	8.8	---	---	---
24	7.0	4.7	5.9	8.6	6.9	7.7	10.1	8.1	8.9	---	---	---
25	7.3	4.9	6.2	8.3	6.9	7.6	9.6	7.7	8.4	---	---	---
26	7.7	5.3	6.5	8.4	7.0	7.6	10.3	7.3	8.5	---	---	---
27	7.8	5.5	6.7	8.7	6.6	7.8	10.3	8.0	8.7	---	---	---
28	8.0	5.6	6.9	8.3	7.3	7.8	10.3	7.2	8.6	---	---	---
29	8.1	5.8	7.1	8.6	6.9	7.5	10.7	7.5	8.9	---	---	---
30	8.7	6.4	7.6	9.0	6.9	7.8	10.9	7.8	9.1	---	---	---
31	---	---	---	8.7	7.2	7.9	10.1	7.8	8.5	---	---	---
MONTH	8.7	2.5	5.2	9.8	5.8	7.5	10.9	6.1	8.2	---	---	---

09046600 BLUE RIVER NEAR DILLON, CO

LOCATION.--Lat 39°34'00", long 106°02'56", in SW¼SE¼ 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.

DRAINAGE AREA.--121 mi^2.

PERIOD OF RECORD.--October 1957 to current year.

REVISED RECORDS.--WSP 2124: Drainage area. WDR CO-95-2: 1994.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,020 ft above sea level, from topographic map. Prior to Aug. 6, 1992, at site 1.4 mi upstream at different datum. Aug. 6, 1992 to Oct. 20, 1994, at site 200 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station by Boreas Pass ditch and Hoosier Pass 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	51	e40	e23	e24	e22	e25	51	243	167	182	66
2	68	50	e37	e25	e24	e23	e25	55	265	160	202	79
3	68	47	e36	e25	e24	e23	e25	62	283	153	176	87
4	68	e47	e36	e25	e24	e23	e24	74	293	149	166	82
5	68	e47	e36	e27	e24	e23	e24	89	262	148	152	74
6	66	49	e36	e27	e24	e24	e25	98	229	142	141	70
7	64	49	e36	e28	e24	e24	e25	94	199	145	131	66
8	63	e48	e36	e26	e24	e24	e25	87	184	139	121	63
9	62	e48	e36	e26	e24	e24	e24	85	174	143	109	61
10	62	e48	e36	e26	e24	e24	e24	90	171	152	105	60
11	62	e47	e35	e26	e24	e24	e25	103	170	169	103	59
12	62	e47	e34	e26	e24	e25	e26	111	166	152	100	60
13	62	e47	e34	e26	e24	e25	e26	110	171	135	96	62
14	61	e42	e34	e26	e24	e25	e26	119	175	124	93	65
15	60	e40	e33	e25	e23	e25	e26	121	177	117	92	65
16	61	e40	e33	e25	e23	e25	e26	111	164	113	89	65
17	61	e40	e32	e25	e23	e25	e26	108	156	107	84	71
18	60	e40	e29	e24	e23	e25	e25	114	154	101	80	77
19	60	e40	e28	e24	e23	e25	e25	127	149	97	78	75
20	58	e40	e27	e24	e23	e25	e25	143	153	93	75	70
21	58	e40	e27	e24	e23	e25	e25	163	167	90	72	67
22	58	e40	e26	e24	e23	e25	26	173	179	88	72	64
23	56	e40	e26	e24	e23	e25	29	166	186	104	72	61
24	56	e40	e25	e24	e23	e25	35	154	191	166	69	60
25	55	e40	e25	e24	e23	e25	40	145	181	297	66	59
26	53	e40	e24	e24	e23	e25	42	146	174	283	66	57
27	50	e40	e23	e24	e23	e25	41	157	171	229	66	55
28	49	e40	e23	e24	e23	e26	41	175	172	181	66	54
29	50	e40	e23	e24	---	e26	42	203	170	190	67	54
30	51	e40	e23	e24	---	e25	46	235	167	184	68	53
31	51	---	e23	e24	---	e25	---	239	---	169	66	---
TOTAL	1852	1307	952	773	658	760	869	3908	5696	4687	3125	1961
MEAN	59.7	43.6	30.7	24.9	23.5	24.5	29.0	126	190	151	101	65.4
MAX	69	51	40	28	24	26	46	239	293	297	202	87
MIN	49	40	23	23	23	22	24	51	149	88	66	53
AC-FT	3670	2590	1890	1530	1310	1510	1720	7750	11300	9300	6200	3890

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1998, BY WATER YEAR (WY)

MEAN	52.2	39.0	31.3	26.3	24.3	23.7	40.1	177	343	206	107	68.3
MAX	101	74.4	54.0	40.3	36.0	32.5	77.7	461	661	644	241	143
(WY)	1985	1985	1984	1984	1983	1983	1985	1996	1995	1995	1984	1983
MIN	30.6	23.8	21.7	17.0	17.2	17.0	23.0	65.1	72.0	73.7	55.1	40.5
(WY)	1978	1978	1978	1995	1992	1995	1964	1981	1963	1966	1977	1962

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1958 - 1998	
ANNUAL TOTAL	54134		26548			
ANNUAL MEAN	148		72.7		a108	
HIGHEST ANNUAL MEAN					168	1984
LOWEST ANNUAL MEAN					45.8	1963
HIGHEST DAILY MEAN	781	Jun 5	297	Jul 25	b1160	Jun 26 1983
LOWEST DAILY MEAN	e,c23	Mar 15	e22	Mar 1	d16	Feb 12 1993
ANNUAL SEVEN-DAY MINIMUM	23	Dec 25	23	Feb 23	16	Mar 3 1995
INSTANTANEOUS PEAK FLOW			326	Jul 25	1390	Jun 18 1995
INSTANTANEOUS PEAK STAGE			5.95	Jul 25	6.91	Jun 18 1995
ANNUAL RUNOFF (AC-FT)	107400		52660		a78250	
10 PERCENT EXCEEDS	452		169		247	
50 PERCENT EXCEEDS	60		50		45	
90 PERCENT EXCEEDS	26		24		23	

e-Estimated.
a-Adjusted for diversions to Hoosier Pass tunnel.
b-Also occurred Jun 18, 1995.
c-Also occurred Dec 27-31.
d-Also occurred Feb 13-14, 1993, Jan 9, and Mar 3-21, 1995.

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 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	e37	e23	e17	e15	e13	e15	27	252	195	106	51
2	37	e35	e23	e17	e14	e13	e15	26	279	184	98	47
3	38	e33	e23	e17	e14	e13	e15	33	296	169	88	41
4	37	e32	e23	e17	e14	e11	e15	40	268	160	91	38
5	35	e32	e23	e17	e14	e10	e15	40	197	148	84	37
6	35	e32	e23	e17	e14	e11	e15	36	167	155	75	36
7	35	e32	e23	e17	e14	e11	e15	33	157	144	70	34
8	40	e32	e23	e17	e14	e11	e15	31	155	144	67	34
9	38	e32	e23	e17	e14	e11	e15	32	151	177	67	33
10	39	e32	e22	e17	e14	e11	e15	37	151	170	71	33
11	38	e32	e21	e17	e14	e11	e15	43	145	164	67	33
12	38	e32	e21	e17	e14	e11	e16	43	147	139	63	42
13	37	e32	e21	e17	e13	e11	e17	55	162	126	58	47
14	39	e25	e21	e17	e13	e11	e18	64	145	116	57	40
15	39	e23	e21	e17	e13	e11	e18	53	138	108	55	39
16	38	e23	e21	e17	e13	e11	e18	56	130	102	51	39
17	37	e23	e21	e17	e13	e11	e18	71	133	97	51	38
18	36	e23	e21	e17	e13	e11	e18	88	135	92	54	35
19	34	e23	e18	e17	e13	e11	e19	104	138	87	51	33
20	34	e23	e18	e17	e13	e11	e19	123	160	83	51	32
21	34	e23	e18	e17	e13	e12	e19	138	173	80	53	32
22	34	e23	e18	e17	e13	e13	e20	129	192	94	54	31
23	33	e23	e18	e17	e13	e14	e20	116	201	106	48	31
24	31	e23	e18	e17	e13	e15	24	113	194	98	46	30
25	29	e23	e17	e17	e13	e15	24	113	189	107	48	29
26	e26	e23	e17	e15	e13	e15	20	137	196	116	48	28
27	e28	e23	e17	e15	e13	e15	20	162	197	96	45	28
28	e35	e23	e17	e15	e13	e15	21	193	197	95	42	27
29	e37	e23	e17	e15	---	e15	23	220	191	95	40	29
30	e36	e23	e17	e15	---	e15	26	234	196	87	38	29
31	e37	---	e17	e15	---	e15	---	230	---	86	38	---
TOTAL	1101	818	624	515	377	384	543	2820	5432	3820	1875	1056
MEAN	35.5	27.3	20.1	16.6	13.5	12.4	18.1	91.0	181	123	60.5	35.2
MAX	40	37	23	17	15	15	26	234	296	195	106	51
MIN	26	23	17	15	13	10	15	26	130	80	38	27
AC-FT	2180	1620	1240	1020	748	762	1080	5590	10770	7580	3720	2090

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1998, BY WATER YEAR (WY)

MEAN	27.4	19.8	15.5	12.1	10.8	10.7	18.1	98.6	287	148	66.2	38.1
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	101	50.9	24.4	18.0
(WY)	1945	1965	1978	1963	1946	1973	1973	1995	1966	1977	1977	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1943 - 1998	
ANNUAL TOTAL	35042		19365			
ANNUAL MEAN	96.0		53.1		62.8	
HIGHEST ANNUAL MEAN					95.8	1997
LOWEST ANNUAL MEAN					35.1	1954
HIGHEST DAILY MEAN	696	Jun 5	296	Jun 3	870	Jun 22 1995
LOWEST DAILY MEAN	e15	Jan 6	e10	Mar 5	5.0	Feb 26 1964
ANNUAL SEVEN-DAY MINIMUM	16	Jan 1	11	Mar 4	6.0	Jan 9 1963
INSTANTANEOUS PEAK FLOW			387	Jun 3	1250	Jun 10 1952
INSTANTANEOUS PEAK STAGE			2.66	Jun 3	a3.51	Jun 10 1952
ANNUAL RUNOFF (AC-FT)	69510		38410		45460	
10 PERCENT EXCEEDS	257		147		176	
50 PERCENT EXCEEDS	32		31		23	
90 PERCENT EXCEEDS	16		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 NE¼NE¼ 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 mi^2.

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 fair except for discharges greater than 20 ft^3/s and 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	e3.7	e3.0	e2.8	e2.8	e2.6	e3.0	4.3	17	6.9	6.0	4.2
2	3.9	e3.7	e3.0	e2.8	e2.8	e2.6	e3.0	4.4	18	6.9	5.1	3.8
3	4.1	e3.7	e2.9	e2.8	e2.8	e2.5	e3.0	5.3	18	6.7	4.5	3.3
4	3.9	e3.7	e2.9	e2.8	e2.8	e2.4	e3.0	6.0	17	6.7	4.8	3.4
5	3.8	e3.7	e2.9	e2.8	e2.8	e2.2	e3.0	5.8	16	6.5	4.7	3.1
6	3.8	e3.6	e2.9	e2.8	e2.8	e2.4	e3.0	5.4	15	7.1	4.2	3.1
7	3.7	e3.6	e2.9	e2.8	e2.8	e2.4	e3.0	4.9	14	6.6	4.0	3.0
8	4.1	e3.5	e2.9	e2.8	e2.8	e2.4	e3.0	4.7	14	7.2	3.8	2.9
9	3.9	e3.5	e2.9	e2.8	e2.8	e2.4	e3.0	4.8	13	8.9	4.0	2.9
10	4.0	e3.5	e2.9	e2.8	e2.8	e2.4	e3.0	5.7	12	8.2	4.2	2.9
11	4.0	e3.5	e2.9	e2.8	e2.8	e2.4	e3.0	6.5	11	7.1	4.2	2.8
12	4.0	e3.5	e2.9	e2.8	e2.8	e2.4	e3.1	6.6	11	6.2	4.2	3.5
13	3.8	e3.5	e2.9	e2.8	e2.7	e2.4	e3.3	8.4	11	5.7	4.0	3.6
14	4.1	e3.3	e2.9	e2.8	e2.6	e2.4	e3.4	7.9	11	5.4	3.9	3.3
15	4.1	e3.3	e2.9	e2.8	e2.6	e2.4	e3.4	6.5	11	5.3	3.9	3.2
16	4.0	e3.3	e2.8	e2.8	e2.6	e2.4	e3.4	7.0	10	5.1	3.6	3.5
17	4.0	e3.3	e2.8	e2.8	e2.6	e2.4	e3.4	9.0	10	5.0	3.8	3.5
18	3.9	e3.3	e2.8	e2.8	e2.6	e2.4	e3.4	10	10	4.9	3.8	3.1
19	3.8	e3.3	e2.8	e2.8	e2.6	e2.4	e3.6	12	10	4.6	3.8	2.9
20	3.8	e3.3	e2.8	e2.8	e2.6	e2.4	e3.8	13	9.5	4.5	3.8	2.8
21	3.8	e3.3	e2.8	e2.8	e2.6	e2.6	e3.8	13	9.3	4.5	3.8	2.8
22	3.8	e3.0	e2.8	e2.8	e2.6	e2.7	e4.0	12	9.1	4.7	3.7	2.7
23	3.7	e3.0	e2.8	e2.8	e2.6	e2.8	e4.1	11	8.8	5.3	3.5	2.8
24	3.5	e3.0	e2.8	e2.8	e2.6	e2.9	3.7	11	8.3	5.6	3.5	2.8
25	3.4	e3.0	e2.8	e2.8	e2.6	e3.0	3.7	11	8.1	5.5	3.7	2.5
26	e3.5	e3.0	e2.8	e2.8	e2.6	e3.0	3.0	12	8.1	6.0	3.7	2.5
27	e3.5	e3.0	e2.8	e2.8	e2.6	e3.0	2.8	14	7.9	4.9	3.6	2.5
28	e3.6	e3.0	e2.8	e2.8	e2.6	e3.0	3.1	15	7.6	4.8	3.4	2.5
29	e3.6	e3.0	e2.8	e2.8	---	e3.0	3.7	16	7.3	5.1	3.2	2.7
30	e3.6	e3.0	e2.8	e2.8	---	e3.0	4.2	16	7.2	4.6	3.1	2.8
31	e3.7	---	e2.8	e2.8	---	e3.0	---	16	---	4.9	3.2	---
TOTAL	118.3	100.1	88.5	86.8	75.3	80.3	99.9	285.2	340.2	181.4	122.7	91.4
MEAN	3.82	3.34	2.85	2.80	2.69	2.59	3.33	9.20	11.3	5.85	3.96	3.05
MAX	4.1	3.7	3.0	2.8	2.8	3.0	4.2	16	18	8.9	6.0	4.2
MIN	3.4	3.0	2.8	2.8	2.6	2.2	2.8	4.3	7.2	4.5	3.1	2.5
AC-FT	235	199	176	172	149	159	198	566	675	360	243	181

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1998, BY WATER YEAR (WY)

MEAN	3.37	2.98	2.54	2.21	2.06	2.08	3.11	12.7	25.1	10.4	5.34	3.79
MAX	6.12	4.33	3.68	2.89	2.90	3.00	6.19	40.8	58.8	31.2	15.5	7.97
(WY)	1985	1985	1966	1997	1997	1986	1986	1996	1995	1995	1984	1984
MIN	2.02	1.77	1.37	1.39	1.40	1.40	1.44	5.49	4.49	2.55	2.19	1.83
(WY)	1982	1964	1964	1964	1961	1973	1973	1981	1963	1963	1977	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1958 - 1998	
ANNUAL TOTAL	3755.0		1670.1			
ANNUAL MEAN	10.3		4.58		6.31	
HIGHEST ANNUAL MEAN					13.1	1984
LOWEST ANNUAL MEAN					3.10	1963
HIGHEST DAILY MEAN	70	Jun 4	a18	Jun 2	153	Jun 18 1995
LOWEST DAILY MEAN	e2.7	Jan 5	e2.2	Mar 5	1.1	Feb 26 1964
ANNUAL SEVEN-DAY MINIMUM	2.8	Dec 16	2.4	Mar 4	1.3	Nov 28 1963
INSTANTANEOUS PEAK FLOW			21	Jun 2	b311	Jun 17 1995
INSTANTANEOUS PEAK STAGE			2.47	Jun 2	3.47	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	7450		3310		4570	
10 PERCENT EXCEEDS	33		9.0		14	
50 PERCENT EXCEEDS	3.6		3.4		3.1	
90 PERCENT EXCEEDS	2.9		2.6		1.9	

e-Estimated.
a-Also occurred Jun 3.
b-From rating curve extended above 65 ft^3/s.

09050100 TENMILE CREEK BELOW NORTH TENMILE CREEK AT FRISCO, CO

LOCATION.--Lat 39°34'31", long 106°06'36", in SE¼NW¼ 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 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	39	e28	e20	e23	e23	e27	63	453	291	140	69
2	38	37	e30	e21	e23	e23	e27	65	511	264	131	70
3	43	e38	e28	e21	e23	e23	e27	76	525	245	112	58
4	40	e37	e27	e20	e23	e23	e27	93	432	238	117	52
5	37	e38	e25	e22	e23	e22	e25	100	341	222	113	49
6	36	e38	e26	e23	e23	e21	e27	90	290	218	97	46
7	35	e38	e27	e23	e23	e20	e27	82	274	208	90	45
8	40	e37	e30	e23	e23	e20	e27	82	264	210	82	43
9	38	e36	e30	e23	e23	e20	e26	90	257	215	79	45
10	40	e35	e27	e23	e23	e20	e25	100	257	272	87	44
11	39	e32	e24	e23	e23	e20	e26	123	247	256	85	46
12	41	e33	e22	e23	e23	e20	e28	117	236	204	78	48
13	40	e33	e21	e23	e23	e20	e29	139	257	179	69	57
14	40	e34	e21	e23	e23	e20	e31	169	231	160	68	52
15	44	e30	e24	e23	e23	e20	e32	148	214	146	68	49
16	43	e28	e25	e23	e23	e20	e32	139	205	133	62	84
17	42	e28	e24	e23	e23	e20	e33	174	216	124	60	67
18	41	e29	e23	e23	e23	e20	e33	214	212	117	60	57
19	40	e30	e26	e23	e23	e20	e33	240	223	110	58	53
20	39	e31	e24	e23	e23	e20	e36	285	276	101	54	48
21	40	e33	e24	e23	e23	e22	e38	331	306	97	53	46
22	39	e30	e24	e23	e23	e24	e39	308	333	102	56	45
23	39	e29	e24	e23	e23	e25	e40	246	344	130	49	42
24	39	e30	e24	e23	e23	e28	e40	235	316	153	46	40
25	39	e32	e23	e23	e23	e30	48	223	301	148	49	38
26	39	e34	e23	e23	e23	e29	45	275	322	154	67	37
27	42	e32	e20	e23	e23	e28	42	323	326	121	53	36
28	41	e30	e20	e23	e23	e28	44	390	322	117	47	37
29	40	e27	e19	e23	---	e27	50	437	315	128	44	37
30	40	e28	e19	e23	---	e27	57	453	314	115	43	36
31	40	---	e19	e23	---	e27	---	419	---	110	41	---
TOTAL	1235	986	751	702	644	710	1021	6229	9120	5288	2258	1476
MEAN	39.8	32.9	24.2	22.6	23.0	22.9	34.0	201	304	171	72.8	49.2
MAX	44	39	30	23	23	30	57	453	525	291	140	84
MIN	35	27	19	20	23	20	25	63	205	97	41	36
AC-FT	2450	1960	1490	1390	1280	1410	2030	12360	18090	10490	4480	2930

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1998, BY WATER YEAR (WY)

MEAN	32.2	25.0	19.5	16.9	17.2	19.1	38.1	252	482	197	74.4	44.1
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	156	44.9	25.3	21.8
(WY)	1978	1978	1978	1963	1978	1976	1973	1995	1963	1977	1977	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1958 - 1998	
ANNUAL TOTAL	53671		30420			
ANNUAL MEAN	147		83.3		102	
HIGHEST ANNUAL MEAN					183	1984
LOWEST ANNUAL MEAN					47.0	1977
HIGHEST DAILY MEAN	1090	Jun 5	525	Jun 3	1480	Jun 17 1965
LOWEST DAILY MEAN	e17	Jan 7	e,a19	Dec 29	5.3	Oct 14 1994
ANNUAL SEVEN-DAY MINIMUM	18	Jan 3	20	Dec 27	7.9	Mar 8 1960
INSTANTANEOUS PEAK FLOW			686	Jun 2	b1910	Jun 16 1965
INSTANTANEOUS PEAK STAGE			3.88	Jun 2	6.15	Jun 16 1965
ANNUAL RUNOFF (AC-FT)	106500		60340		73650	
10 PERCENT EXCEEDS	499		246		320	
50 PERCENT EXCEEDS	40		39		31	
90 PERCENT EXCEEDS	22		23		14	

e-Estimated.
a-Also occurred Dec 30-31.
b-From rating curve extended above 750 ft^3/s.

09050700 BLUE RIVER BELOW DILLON, CO

LOCATION.--Lat 39°37'32", long 106°03'57", in SE¼SE¼ 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 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	127	209	112	113	113	110	110	850	343	356	191
2	106	126	154	113	113	113	110	110	635	300	398	200
3	107	126	128	112	113	114	110	137	514	284	409	204
4	107	138	128	113	113	113	110	185	474	290	408	235
5	107	202	118	112	113	113	110	230	471	295	405	250
6	108	289	113	111	113	113	110	245	563	291	388	244
7	109	320	113	113	113	112	110	298	625	289	365	247
8	111	320	112	113	113	113	111	337	624	257	347	249
9	111	320	113	113	113	113	110	338	626	237	329	252
10	110	320	113	112	113	113	110	335	617	234	323	237
11	111	320	113	112	113	113	110	335	625	289	309	192
12	113	320	113	113	113	113	111	335	534	339	300	175
13	113	320	113	112	113	113	110	336	473	349	287	175
14	113	320	112	113	113	112	111	336	474	290	273	176
15	113	320	113	112	113	112	110	338	407	205	262	175
16	113	320	113	111	113	110	110	336	349	146	255	175
17	113	320	113	110	113	110	111	335	350	117	244	175
18	112	320	113	110	113	110	112	335	279	113	239	174
19	113	320	113	110	113	110	112	333	162	113	232	176
20	113	271	111	110	112	110	112	401	110	113	227	176
21	120	237	110	110	113	110	110	458	113	112	222	211
22	127	237	110	110	113	111	110	493	113	113	224	237
23	127	237	110	110	113	110	110	552	168	113	217	237
24	126	235	110	110	112	110	111	553	289	113	212	237
25	125	235	110	110	113	110	111	553	357	113	208	236
26	127	236	110	110	113	110	110	550	398	113	209	237
27	128	236	111	113	113	110	110	550	399	119	207	237
28	127	237	113	113	113	110	110	736	413	155	200	237
29	127	237	111	113	---	110	110	991	415	219	195	237
30	126	237	113	113	---	109	110	1090	387	274	189	239
31	126	---	113	113	---	110	---	1000	---	310	185	---
TOTAL	3597	7803	3649	3462	3162	3453	3312	13271	12814	6648	8624	6423
MEAN	116	260	118	112	113	111	110	428	427	214	278	214
MAX	128	320	209	113	113	114	112	1090	850	349	409	252
MIN	106	126	110	110	112	109	110	110	110	112	185	174
AC-FT	7130	15480	7240	6870	6270	6850	6570	26320	25420	13190	17110	12740

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1998, BY WATER YEAR (WY)

MEAN	114	99.9	85.2	75.4	78.3	83.9	131	328	722	446	256	162
MAX	243	268	193	158	155	269	742	1101	1813	1476	999	348
(WY)	1987	1985	1985	1966	1997	1996	1996	1984	1984	1984	1984	1983
MIN	.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 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1963 - 1998	
ANNUAL TOTAL	135137		76218			
ANNUAL MEAN	370		209		215	
HIGHEST ANNUAL MEAN					538	1984
LOWEST ANNUAL MEAN					65.5	1981
HIGHEST DAILY MEAN	a1750	Jun 14	1090	May 30	1940	May 24 1984
LOWEST DAILY MEAN	102	Jan 17	106	Oct 2	b.00	Sep 4 1963
ANNUAL SEVEN-DAY MINIMUM	103	Jan 11	107	Oct 1	.00	Sep 4 1963
INSTANTANEOUS PEAK FLOW			c1100	May 29	2010	May 25 1984
INSTANTANEOUS PEAK STAGE			c2.85	May 29	d3.88	May 25 1984
ANNUAL RUNOFF (AC-FT)	268000		151200		156100	
10 PERCENT EXCEEDS	1120		387		482	
50 PERCENT EXCEEDS	208		119		103	
90 PERCENT EXCEEDS	104		110		51	

a-Also occurred Jun 15-16.
b-Also occurred Sept 5 to Nov 19, 1963.
c-Also occurred May 30-31.
d-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 SW¼SW¼ 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 mi^2.

PERIOD OF RECORD.--October 1986 to current year.

GAGE.--Water-stage recorder. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	e6.8	e5.2	e3.8	e3.4	e3.3	e3.6	8.0	49	53	24	10
2	8.8	e6.8	e5.2	e3.8	e3.4	e3.3	e3.6	7.9	58	49	22	9.4
3	9.2	e6.8	e5.0	e3.8	e3.4	e3.3	e3.6	9.3	61	47	20	8.3
4	8.7	e6.8	e4.7	e3.8	e3.4	e3.4	e3.6	10	51	45	20	7.7
5	8.3	e6.2	e4.7	e3.8	e3.4	e3.4	e3.6	10	37	39	20	7.3
6	7.9	e6.2	e4.7	e3.8	e3.4	e3.4	e3.6	9.2	30	40	17	7.1
7	8.0	e6.2	e4.7	e3.6	e3.4	e3.4	e3.6	8.9	26	36	15	6.9
8	9.4	e6.2	e4.7	e3.6	e3.4	e3.4	e3.6	8.5	24	35	14	6.8
9	9.4	e6.2	e4.7	e3.6	e3.4	e3.4	e3.6	9.0	23	39	15	6.9
10	9.5	e6.2	e4.7	e3.6	e3.4	e3.5	e3.6	9.6	25	45	16	7.2
11	8.9	e6.2	e4.7	e3.6	e3.4	e3.5	e3.7	10	23	38	15	6.7
12	9.1	e6.2	e4.7	e3.6	e3.4	e3.6	e3.7	10	24	32	14	7.5
13	9.2	e6.2	e4.7	e3.6	e3.4	e3.6	e3.7	13	26	28	13	7.6
14	10	e5.6	e4.7	e3.6	e3.3	e3.7	e3.7	13	26	26	12	7.1
15	10	e5.4	e4.7	e3.6	e3.3	e3.7	e3.7	11	25	25	12	7.1
16	9.7	e5.4	e4.7	e3.6	e3.3	e3.7	e3.7	11	24	22	11	7.6
17	9.5	e5.4	e4.7	e3.6	e3.3	e3.7	e3.7	13	26	20	11	7.1
18	9.2	e5.4	e4.7	e3.4	e3.3	e3.7	e3.8	16	26	18	11	6.7
19	8.8	e5.2	e4.5	e3.4	e3.3	e3.7	e3.8	18	27	17	11	6.4
20	8.9	e5.2	e4.4	e3.4	e3.3	e3.6	e3.9	21	31	15	11	6.3
21	8.9	e5.2	e4.3	e3.4	e3.3	e3.6	e3.9	25	37	15	11	6.3
22	8.5	e5.2	e4.2	e3.4	e3.3	e3.6	6.0	22	37	21	11	6.2
23	8.3	e5.2	e4.0	e3.4	e3.3	e3.6	7.1	16	41	19	10	6.5
24	7.3	e5.2	e3.8	e3.4	e3.3	e3.6	8.0	15	43	23	9.9	6.3
25	e7.0	e5.2	e3.8	e3.4	e3.3	e3.6	7.5	15	44	35	10	6.1
26	e7.0	e5.2	e3.8	e3.4	e3.3	e3.6	6.6	19	49	28	9.5	5.9
27	e7.0	e5.2	e3.8	e3.4	e3.3	e3.6	6.6	24	51	22	9.6	5.8
28	e6.8	e5.2	e3.8	e3.4	e3.2	e3.6	6.7	33	52	27	8.7	5.9
29	e6.8	e5.2	e3.8	e3.4	---	e3.6	7.4	41	52	25	8.3	6.0
30	e6.8	e5.2	e3.8	e3.4	---	e3.6	7.8	44	54	23	8.0	5.9
31	e6.8	---	e3.8	e3.4	---	e3.6	---	44	---	22	8.1	---
TOTAL	262.6	172.6	137.7	110.0	93.6	109.9	141.0	524.4	1102	929	408.1	208.6
MEAN	8.47	5.75	4.44	3.55	3.34	3.55	4.70	16.9	36.7	30.0	13.2	6.95
MAX	10	6.8	5.2	3.8	3.4	3.7	8.0	44	61	53	24	10
MIN	6.8	5.2	3.8	3.4	3.2	3.3	3.6	7.9	23	15	8.0	5.8
AC-FT	521	342	273	218	186	218	280	1040	2190	1840	809	414

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1998, BY WATER YEAR (WY)

MEAN	7.50	6.03	4.71	3.96	3.87	4.15	6.33	26.5	67.6	32.9	13.1	8.37
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	3.71	2.43	2.39	3.14	3.55	9.45	36.2	11.7	8.68	4.31
(WY)	1990	1990	1995	1992	1992	1992	1995	1995	1987	1994	1994	1989

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1987 - 1998	
ANNUAL TOTAL	8179.0		4199.5			
ANNUAL MEAN	22.4		11.5		15.4	
HIGHEST ANNUAL MEAN					25.5	1996
LOWEST ANNUAL MEAN					10.9	1987
HIGHEST DAILY MEAN	162	Jun 20	61	Jun 3	226	Jun 17 1995
LOWEST DAILY MEAN	e3.2	Mar 5	e3.2	Feb 28	1.8	Jan 31 1992
ANNUAL SEVEN-DAY MINIMUM	3.3	Mar 3	3.3	Feb 22	1.9	Jan 26 1992
INSTANTANEOUS PEAK FLOW			a87	Jul 10	b416	Jun 17 1995
INSTANTANEOUS PEAK STAGE			a4.92	Jul 10	5.78	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	16220		8330		11180	
10 PERCENT EXCEEDS	72		27		40	
50 PERCENT EXCEEDS	8.7		6.6		6.7	
90 PERCENT EXCEEDS	3.5		3.4		3.5	

e-Estimated.
a-Also occurred Jul 25.
b-From rating curve extended above 150 ft^3/s.

RESERVOIRS IN BLUE RIVER BASIN

09050600 DILLON RESERVOIR.--Lat 39°37'14", long 106°03'53", in NE¼ sec.13, T.5 S., R.78 W., Summit County, Hydrologic Unit 14010002, in gatehouse at dam, 0.8 mi upstream from Straight Creek, about 1.3 mi southwest of Dillon, and 3.5 mi northeast of Frisco. DRAINAGE AREA, 335 mi^2. PERIOD OF RECORD, September 1963 to current year. GAGE, nonrecording gage read once daily. Datum of gage is above sea level, (levels by Denver Board of Water Commissioners); gage readings have been reduced to elevations above sea level.

Reservoir is earth and rockfill dam. Dam completed and storage began Sept. 3, 1963; dead storage pool filled Sept. 12, 1963. Capacity, 254,000 acre-ft between elevations 8,829.00 ft, invert of outlet valve, and 9,017.00 ft, crest of spillway. Dead storage, 3,270 acre-ft. Figures given represent usable contents. Reservoir stores water for transmountain diversion to South Platte River basin through Harold D. Roberts tunnel for municipal use by city of Denver. Records provided by Denver Board of Water Commissioners.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 262,200 acre-ft, June 30, 1983, elevation, 9,019.46 ft; minimum since appreciable storage was attained in July 1964, 45,310 acre-ft, Apr. 20, 1965, elevation, 8,904.16 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 256,500 acre-ft, June 28, elevation, 9,017.76 ft; minimum, 238,800 acre ft, Mar. 22-25, elevation, 9,012.16 ft.

09057000 GREEN MOUNTAIN RESERVOIR.--Lat 39°52'42", long 106°19'45", in NE¼ sec.15, T.2 S., R.80 W., Summit County, Hydrologic Unit 14010002, in hoist house at right end of dam, 0.6 mi upstream from Elliott Creek, and 13 mi southeast of Kremmling. DRAINAGE AREA, 598 mi^2, includes 15.3 mi^2 of Elliott Creek above diversion for Elliott Creek feeder canal. PERIOD OF RECORD, November 1942 to current year. 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.

Reservoir is formed by an earth and rockfill dam. Dam completed and storage began November 1942. Capacity, 146,900 acre-ft between elevations 7,800 ft, sill of outlet gate, and 7,950 ft, top of radial spillway gates. Dead storage, 6,860 acre-ft. Figures given represent usable contents. Reservoir is used for power development and storage for replacement of water diverted to South Platte River basin. Water released to fill decrees during late irrigation season when flow of Colorado River is deficient. Records provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 148,900 acre-ft, July 10, 1947, elevation, 7,950.95 ft; minimum since appreciable storage was attained, 388 acre-ft, Jan. 12, 1963, elevation, 7,801.70 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 146,300 acre-ft, July 29, elevation, 7,949.78 ft; minimum, 51,760 acre-ft, Apr. 22, elevation, 7,889.26 ft.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Date	Elevation [a](feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation [a](feet)	Contents (acre-feet)	Change in contents (acre-feet)
	09050600 DILLON RESERVOIR			09057000 GREEN MOUNTAIN RESERVOIR		
Sept. 30	9,017.03	254,100	-	7,942.48	131,300	-
Oct. 31	9,016.02	250,900	-3,200	7,941.01	128,400	-2,900
Nov. 30	9,013.09	241,700	-9,200	7,945.30	137,000	+8,600
Dec. 31	9,012.77	240,700	-1,000	7,936.62	120,000	-17,000
CAL YR 1997	-	-	+11,700	-	-	+19,800
Jan. 31	9,012.61	240,200	-500	7,925.46	100,200	-19,800
Feb. 28	9,012.39	239,500	-700	7,913.79	82,240	-17,960
Mar. 31	9,012.19	238,900	-600	7,899.88	63,790	-18,450
Apr. 30	9,012.56	240,000	+1,100	7,889.79	52,320	-11,470
May 31	9,013.52	243,000	+3,000	7,912.00	79,700	+27,380
June 30	9,017.67	256,200	+13,200	7,937.01	120,800	+41,100
July 31	9,017.63	256,100	-100	7,949.48	145,700	+24,900
Aug. 31	9,017.31	255,000	-1,100	7,945.58	137,600	-8,100
Sept. 30	9,016.30	251,800	-3,200	7,936.05	119,000	-18,600
WTR YR 1998	-	-	-2,300	-	-	-12,300

a-Above sea level.

09057500 BLUE RIVER BELOW GREEN MOUNTAIN RESERVOIR, CO

LOCATION.--Lat 39°52'49", long 106°20'00", in SW¼NE¼ 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 mi^2, includes 15.3 mi^2 of Elliott Creek above diversion for Elliott Creek feeder canal.

WATER-DISCHARGE RECORDS

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.

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.--Records fair except for estimated daily discharges, which are poor. 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).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	385	190	218	e500	e500	e500	e500	e250	1170	55	771	581
2	386	198	260	e500	e500	e485	e500	e250	452	55	779	579
3	385	194	295	e500	e500	e475	e500	e250	113	55	811	579
4	385	191	332	e500	e500	e475	e500	e250	164	56	892	584
5	385	207	376	e500	e500	e475	e500	e250	201	56	936	584
6	385	204	412	e500	e500	e475	e500	e250	202	55	964	584
7	384	198	449	e500	e500	e475	e500	e250	203	56	884	578
8	384	196	474	e500	e500	e475	e500	e250	203	57	785	584
9	384	203	479	e500	e500	e475	e500	e250	202	57	797	610
10	383	210	479	e500	e500	e485	e500	e250	202	56	800	642
11	385	210	e500	e500	e500	e500	e500	e250	203	56	677	641
12	e386	208	e500	e500	e500	e500	e500	e250	207	56	594	638
13	386	200	e500	e500	e500	e500	e500	e250	206	137	601	637
14	388	206	e500	e500	e500	e500	e500	e250	205	247	602	637
15	389	208	e500	e500	e500	e500	e500	e250	199	275	599	637
16	390	203	e500	e500	e500	e500	e500	253	200	380	598	637
17	390	208	e500	e500	e500	e500	e500	257	174	462	588	636
18	350	211	e500	e500	e500	e500	e500	174	145	538	630	638
19	253	212	e500	e500	e500	e500	e500	107	145	534	585	637
20	110	211	e500	e500	e500	e500	e500	103	144	435	586	636
21	97	211	e500	e500	e500	e500	e385	103	146	326	580	637
22	98	212	e500	e500	e500	e500	e275	106	136	346	579	645
23	98	193	e500	e500	e500	e500	e260	107	99	331	547	651
24	98	186	e500	e500	e500	e500	e250	108	98	321	447	648
25	99	192	e500	e500	e500	e500	e250	108	98	330	406	646
26	101	198	e500	e500	e500	e500	e260	170	98	361	453	644
27	132	198	e500	e500	e500	e500	e275	513	98	471	576	643
28	196	196	e500	e500	e500	e500	e260	919	98	550	576	643
29	196	200	e500	e500	---	e500	e250	1120	82	558	576	644
30	192	201	e500	e500	---	e500	e250	1330	56	879	577	638
31	191	---	e500	e500	---	e500	---	1430	---	836	579	---
TOTAL	8771	6055	14274	15500	14000	15295	12715	10658	5949	8987	20375	18718
MEAN	283	202	460	500	500	493	424	344	198	290	657	624
MAX	390	212	500	500	500	500	500	1430	1170	879	964	651
MIN	97	186	218	500	500	475	250	103	56	55	406	578
AC-FT	17400	12010	28310	30740	27770	30340	25220	21140	11800	17830	40410	37130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1998, BY WATER YEAR (WY)

MEAN	375	293	314	309	297	324	401	541	752	806	623	497
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	.72	.46	.19	.61	47.2	55.7	54.4	131	270	192
(WY)	1950	1943	1943	1943	1943	1943	1943	1969	1981	1981	1964	1946

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1943 - 1998	
ANNUAL TOTAL	237121		151297			
ANNUAL MEAN	650		415			
HIGHEST ANNUAL MEAN					946	1984
LOWEST ANNUAL MEAN					200	1964
HIGHEST DAILY MEAN	3110	Jun 25	1430	May 31	4010	Jul 12 1995
LOWEST DAILY MEAN	97	Oct 21	a55	Jul 1	b,c.00	Dec 6 1942
ANNUAL SEVEN-DAY MINIMUM	100	Oct 20	55	Jun 30	.00	Jan 5 1943
INSTANTANEOUS PEAK FLOW			1530	May 28	4040	Jul 12 1995
INSTANTANEOUS PEAK STAGE			7.29	May 28	10.85	Jul 12 1995
ANNUAL RUNOFF (AC-FT)	470300		300100			
10 PERCENT EXCEEDS	1160		637		856	
50 PERCENT EXCEEDS	474		500		372	
90 PERCENT EXCEEDS	210		134		127	

e-Estimated.
a-Also occurred Jul 2-3 and 6.
b-No flow at times in 1943.
c-Minimum daily discharge (prior to Green Mountain Reservoir), 80 ft^3/s, Feb 18-24, 1938, Feb 18-19, 1940.

09057500 BLUE RIVER BELOW GREEN MOUNTAIN RESERVOIR, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1986 to September 1987, October 1995 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1986 to September 1987, October 1995 to current year.
WATER TEMPERATURE: October 1986 to September 1987, October 1995 to current year.

INSTRUMENTATION.--Water-quality monitor from January 1986 to September 1987, and water-quality monitor with satellite telemetry since October 1995.

REMARKS.--Records for specific condutance are poor. Records for water temperature are fair.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum 245 microsiemens, May 21 and 26, 1997; minimum, 147 microsiemens, Sept. 13-14, and 16, 1997.
WATER TEMPERATURE: Maximum 13.7°C, Sept. 29, 1998; minimum 1.8°C, Mar. 19, and Mar. 27 to Apr. 1, 1997.

EXTREMES FOR CURRENT PERIOD.--
SPECIFIC CONDUCTANCE: Maximum, 222 microsiemens, May 1 and Aug. 22 and 24; minimum, 148 microsiemens, Oct. 15 and 25.
WATER TEMPERATURE: Maximum 13.7°C, Sept. 29; minimum, 2.7°C, Mar. 31 to Apr. 6.

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	153	150	151	156	155	155	154	153	154
2	---	---	---	154	150	151	156	155	155	---	---	---
3	---	---	---	156	150	152	156	155	155	---	---	---
4	---	---	---	151	149	150	155	154	155	---	---	---
5	---	---	---	150	149	150	156	154	154	---	---	---
6	---	---	---	151	150	150	---	---	---	---	---	---
7	---	---	---	151	150	151	---	---	---	157	156	157
8	---	---	---	151	150	151	---	---	---	157	157	157
9	---	---	---	151	150	151	---	---	---	158	157	157
10	---	---	---	152	150	151	---	---	---	158	157	158
11	---	---	---	153	151	152	---	---	---	159	158	158
12	---	---	---	154	152	153	---	---	---	159	158	158
13	---	---	---	154	153	154	---	---	---	160	159	159
14	---	---	---	154	153	154	---	---	---	160	159	160
15	152	148	150	153	152	153	---	---	---	161	160	160
16	152	150	151	153	151	152	---	---	---	162	160	161
17	153	150	151	152	151	151	151	150	151	162	161	161
18	153	149	151	152	151	152	151	150	151	162	161	162
19	153	150	151	154	152	153	152	150	151	162	161	160
20	---	---	---	155	153	154	151	150	151	---	---	---
21	---	---	---	154	153	153	151	151	151	---	---	---
22	---	---	---	154	152	153	151	151	151	---	---	---
23	---	---	---	154	153	153	152	151	151	---	---	---
24	155	149	151	154	153	153	152	151	151	---	---	---
25	156	148	151	154	153	153	152	151	152	---	---	---
26	157	149	151	155	152	154	152	151	152	---	---	---
27	156	150	152	155	154	155	152	152	152	---	---	---
28	155	150	153	156	154	155	---	---	---	---	---	---
29	157	151	154	156	155	155	153	152	153	---	---	---
30	156	151	153	156	155	156	154	152	153	---	---	---
31	156	152	154	---	---	---	154	153	154	---	---	---
MONTH	---	---	---	156	149	153	---	---	---	---	---	---

09057500 BLUE RIVER BELOW GREEN MOUNTAIN RESERVOIR, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	208	207	208	222	198	211
2	---	---	---	---	---	---	209	207	208	209	200	205
3	---	---	---	---	---	---	209	204	207	211	193	203
4	---	---	---	---	---	---	207	204	206	211	186	194
5	---	---	---	---	---	---	208	206	207	205	184	196
6	---	---	---	---	---	---	207	206	206	197	190	192
7	---	---	---	---	---	---	208	206	207	200	191	194
8	---	---	---	---	---	---	208	207	208	200	187	193
9	---	---	---	---	---	---	208	207	208	212	197	202
10	---	---	---	---	---	---	208	207	207	208	196	200
11	---	---	---	---	---	---	208	207	207	207	201	205
12	---	---	---	---	---	---	209	207	208	205	197	199
13	---	---	---	---	---	---	208	207	207	209	198	204
14	---	---	---	---	---	---	208	207	207	203	200	202
15	---	---	---	---	---	---	208	207	207	207	199	203
16	---	---	---	---	---	---	209	208	208	203	198	199
17	---	---	---	---	---	---	209	207	208	204	200	203
18	---	---	---	---	---	---	208	208	208	204	197	200
19	---	---	---	---	---	---	209	208	208	203	198	201
20	---	---	---	---	---	---	209	208	208	202	198	200
21	---	---	---	---	---	---	211	207	209	207	200	201
22	---	---	---	---	---	---	212	210	211	203	198	201
23	---	---	---	---	---	---	212	210	211	203	198	201
24	---	---	---	---	---	---	213	209	211	203	198	201
25	---	---	---	190	187	189	214	209	211	202	197	199
26	---	---	---	193	189	192	214	207	210	199	196	198
27	---	---	---	196	193	195	211	200	208	201	198	200
28	---	---	---	201	196	199	213	207	210	202	199	200
29	---	---	---	203	201	202	216	207	211	202	199	201
30	---	---	---	205	202	204	211	192	202	202	200	201
31	---	---	---	208	205	206	---	---	---	203	193	200
MONTH	---	---	---	---	---	---	216	192	208	222	184	200

		JUNE			JULY			AUGUST			SEPTEMBER	
1	203	200	201	---	---	---	---	---	---	214	202	205
2	203	187	198	---	---	---	---	---	---	210	202	205
3	203	186	200	---	---	---	---	---	---	206	196	201
4	205	195	202	---	---	---	---	---	---	201	196	198
5	203	196	199	---	---	---	---	---	---	200	194	197
6	197	193	196	---	---	---	---	---	---	199	194	197
7	199	195	196	197	192	195	---	---	---	199	193	196
8	199	194	196	196	189	193	---	---	---	198	191	194
9	201	194	198	204	194	196	---	---	---	194	186	190
10	217	198	201	199	192	196	---	---	---	193	186	189
11	217	208	214	203	195	197	---	---	---	191	185	189
12	209	207	208	201	197	198	---	---	---	190	186	187
13	210	205	207	202	197	199	196	192	194	186	183	185
14	214	203	207	201	198	199	195	192	193	186	182	184
15	212	208	210	200	198	199	---	---	---	186	178	182
16	210	205	208	201	198	199	---	---	---	185	177	180
17	208	204	206	200	198	199	---	---	---	183	172	177
18	206	204	205	200	198	199	---	---	---	174	172	173
19	207	204	205	199	198	199	---	---	---	175	171	173
20	215	203	207	200	198	198	---	---	---	175	172	173
21	213	206	209	201	191	197	218	185	198	175	172	173
22	207	205	206	203	190	192	222	214	219	176	173	175
23	207	205	206	199	189	196	220	213	217	177	174	175
24	207	203	205	202	190	197	222	210	215	177	174	176
25	207	203	205	195	189	192	216	210	213	179	175	177
26	207	203	205	190	189	190	214	209	211	179	175	177
27	206	203	205	190	189	190	215	207	209	180	177	178
28	206	203	204	190	189	189	210	205	208	180	178	179
29	---	---	---	---	---	---	211	205	208	182	176	179
30	---	---	---	---	---	---	210	202	206	182	178	181
31	---	---	---	---	---	---	210	202	206	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	214	171	185

09057500 BLUE RIVER BELOW GREEN MOUNTAIN RESERVOIR, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	13.0	12.6	12.8	9.2	9.0	9.1	5.0	4.8	4.8	3.6	3.5	3.5
2	12.9	12.6	12.8	9.1	8.8	8.9	4.9	4.7	4.8	3.4	3.3	3.4
3	13.0	12.7	12.8	8.8	8.4	8.7	4.8	4.6	4.7	---	---	---
4	13.0	12.5	12.8	8.8	8.3	8.5	4.6	4.5	4.5	---	---	---
5	13.0	12.7	12.8	8.6	8.2	8.3	4.5	4.1	4.4	---	---	---
6	12.9	12.7	12.8	8.4	8.1	8.2	---	---	---	3.3	3.2	3.3
7	12.9	12.5	12.7	8.2	8.0	8.0	---	---	---	3.5	3.4	3.4
8	12.9	12.5	12.7	8.1	7.9	8.0	---	---	---	3.5	3.4	3.4
9	12.9	12.5	12.7	8.0	7.8	7.9	---	---	---	3.5	3.4	3.4
10	12.8	12.5	12.6	8.0	7.7	7.8	---	---	---	3.5	3.4	3.4
11	12.8	12.2	12.6	7.8	7.6	7.7	---	---	---	3.5	3.4	3.4
12	12.5	12.1	12.3	7.7	7.4	7.5	---	---	---	3.5	3.4	3.4
13	12.4	11.9	12.2	7.5	7.1	7.3	---	---	---	3.5	3.4	3.4
14	12.2	11.8	12.0	7.3	7.0	7.1	---	---	---	3.4	3.3	3.4
15	11.8	11.4	11.6	7.1	6.9	7.0	3.5	3.4	3.4	3.4	3.3	3.3
16	11.5	11.0	11.3	6.9	6.5	6.8	3.7	3.6	3.7	3.4	3.3	3.3
17	11.4	10.8	11.1	6.7	6.4	6.5	3.7	3.6	3.7	3.3	3.2	3.3
18	11.3	10.7	11.0	6.5	6.1	6.3	3.7	3.6	3.7	3.4	3.3	3.3
19	11.0	10.4	10.7	5.9	5.7	5.8	3.5	3.4	3.4	3.2	3.1	3.4
20	---	---	---	6.0	5.8	5.9	3.7	3.6	3.6	---	---	---
21	---	---	---	5.9	5.8	5.9	3.6	3.6	3.6	---	---	---
22	---	---	---	5.9	5.7	5.8	3.7	3.6	3.7	---	---	---
23	---	---	---	5.8	5.6	5.7	3.7	3.6	3.7	---	---	---
24	10.4	9.8	10.7	5.7	5.5	5.6	3.5	3.4	3.5	---	---	---
25	10.5	10.1	10.2	5.5	5.3	5.4	3.7	3.6	3.7	---	---	---
26	10.5	9.9	10.1	5.4	5.3	5.3	3.7	3.6	3.6	---	---	---
27	10.4	9.7	9.9	5.4	5.2	5.3	3.6	3.6	3.6	---	---	---
28	10.0	9.4	9.7	5.4	5.1	5.2	3.4	3.4	3.4	---	---	---
29	9.8	9.1	9.4	5.1	4.9	5.0	3.7	3.6	3.6	---	---	---
30	9.6	9.1	9.3	5.0	4.8	4.9	3.6	3.5	3.6	---	---	---
31	9.2	9.0	9.1	---	---	---	3.5	3.5	3.5	---	---	---
MONTH	---	---	---	9.2	4.8	6.8	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	2.9	2.7	2.7	3.9	3.6	3.7
2	---	---	---	---	---	---	2.8	2.7	2.7	4.0	3.6	3.7
3	---	---	---	---	---	---	3.1	2.7	2.8	4.2	3.6	3.8
4	---	---	---	---	---	---	2.9	2.7	2.7	5.1	3.6	4.3
5	---	---	---	---	---	---	2.9	2.7	2.8	5.9	4.0	4.6
6	---	---	---	---	---	---	2.8	2.7	2.8	5.0	4.3	4.7
7	---	---	---	---	---	---	3.0	2.8	2.8	4.8	4.2	4.5
8	---	---	---	---	---	---	3.0	2.8	2.9	5.3	4.4	4.9
9	---	---	---	---	---	---	3.0	2.9	2.9	4.9	4.0	4.6
10	---	---	---	---	---	---	3.1	2.9	2.9	5.3	4.3	4.8
11	---	---	---	---	---	---	3.1	2.9	3.0	4.8	4.4	4.5
12	---	---	---	---	---	---	3.2	3.0	3.0	6.2	4.6	5.3
13	---	---	---	---	---	---	3.2	3.0	3.1	5.3	4.4	4.9
14	---	---	---	---	---	---	3.2	3.1	3.1	5.5	4.8	5.2
15	---	---	---	---	---	---	3.3	3.1	3.1	5.8	4.4	5.0
16	---	---	---	---	---	---	3.3	3.1	3.2	6.4	4.8	5.4
17	---	---	---	---	---	---	3.3	3.1	3.2	5.3	4.6	5.0
18	---	---	---	---	---	---	3.3	3.2	3.2	6.4	4.8	5.6
19	---	---	---	---	---	---	3.3	3.2	3.2	6.4	4.9	5.4
20	---	---	---	---	---	---	3.4	3.2	3.3	6.3	5.0	5.5
21	---	---	---	---	---	---	3.5	3.3	3.3	6.1	5.2	5.5
22	---	---	---	---	---	---	3.7	3.3	3.4	6.2	5.1	5.5
23	---	---	---	---	---	---	3.7	3.3	3.4	6.6	5.1	5.6
24	---	---	---	---	---	---	3.7	3.4	3.5	6.5	5.1	5.6
25	---	---	---	3.3	3.1	3.2	3.7	3.4	3.5	6.5	5.2	5.7
26	---	---	---	3.2	3.0	3.1	3.8	3.4	3.5	6.3	5.4	5.8
27	---	---	---	3.2	3.0	3.0	3.8	3.4	3.5	6.1	5.5	5.7
28	---	---	---	3.1	2.8	3.0	3.8	3.4	3.5	6.6	5.6	5.9
29	---	---	---	2.9	2.8	2.8	3.9	3.4	3.6	6.6	5.7	6.1
30	---	---	---	3.0	2.8	2.8	4.1	3.5	3.7	6.6	6.0	6.3
31	---	---	---	2.9	2.7	2.8	---	---	---	7.4	5.8	6.5
MONTH	---	---	---	---	---	---	4.1	2.7	3.1	7.4	3.6	5.1

09057500 BLUE RIVER BELOW GREEN MOUNTAIN RESERVOIR, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.1	6.0	6.6	---	---	---	9.4	8.5	9.0	11.6	10.6	11.3
2	7.5	6.3	6.9	---	---	---	9.3	8.7	9.1	11.5	10.7	11.2
3	7.8	6.4	6.8	---	---	---	9.4	8.9	9.1	11.8	11.2	11.4
4	7.3	6.3	6.8	---	---	---	9.5	8.9	9.2	11.8	11.1	11.4
5	7.5	6.5	6.9	---	---	---	9.5	9.0	9.2	11.9	11.1	11.6
6	7.4	6.7	7.0	9.5	8.4	8.7	9.6	9.1	9.3	11.9	11.3	11.6
7	7.6	6.9	7.1	9.8	8.1	8.6	9.8	9.1	9.4	12.1	11.4	11.7
8	7.4	6.6	7.0	9.5	8.1	8.6	9.9	9.1	9.4	12.2	11.4	11.9
9	7.4	6.8	7.0	9.2	8.2	8.6	9.9	9.2	9.5	12.2	11.4	11.9
10	7.7	6.7	7.2	9.9	8.3	8.8	10.2	9.2	9.6	12.3	11.7	12.1
11	7.9	6.7	7.1	9.9	8.1	8.6	10.1	9.1	9.7	12.5	11.8	12.1
12	7.7	6.9	7.2	10.1	8.1	8.7	10.3	9.3	9.7	12.5	11.9	12.2
13	7.7	6.9	7.2	10.0	8.1	8.5	10.2	9.4	9.7	12.5	12.1	12.3
14	8.0	6.8	7.2	8.5	8.1	8.4	10.2	9.6	9.9	12.7	12.2	12.4
15	7.5	6.9	7.3	8.7	8.2	8.4	10.3	9.5	9.9	12.8	12.4	12.5
16	7.7	7.2	7.4	8.7	8.2	8.4	10.5	9.7	10.0	13.1	12.1	12.6
17	8.0	6.9	7.4	8.6	8.4	8.5	10.7	9.7	10.1	13.0	12.4	12.8
18	7.9	7.2	7.4	8.6	8.3	8.5	10.6	9.8	10.1	13.1	12.8	13.0
19	8.1	7.2	7.5	8.6	8.3	8.5	10.4	10.1	10.2	13.4	12.8	13.1
20	8.3	7.1	7.6	8.8	8.3	8.5	10.8	9.9	10.3	13.4	12.8	13.1
21	8.3	7.2	7.6	8.8	8.5	8.6	10.6	9.7	10.2	13.4	12.9	13.2
22	8.1	7.2	7.6	8.8	8.4	8.6	10.7	10.2	10.3	13.3	13.1	13.2
23	8.3	7.4	7.7	8.9	8.5	8.7	10.9	10.0	10.4	13.5	13.1	13.3
24	8.4	7.4	7.7	8.9	8.4	8.6	10.9	10.0	10.5	13.5	13.2	13.3
25	8.7	7.4	7.8	8.8	8.5	8.7	10.9	10.1	10.5	13.5	13.1	13.3
26	8.7	7.4	7.9	8.9	8.6	8.7	11.0	10.3	10.6	13.6	13.1	13.4
27	8.7	7.6	8.0	8.9	8.6	8.8	11.2	10.3	10.8	13.6	13.1	13.4
28	8.7	7.6	8.1	8.9	8.6	8.8	11.2	10.6	10.9	13.6	13.2	13.4
29	---	---	---	9.0	8.5	8.8	11.4	10.5	10.9	13.7	13.2	13.4
30	---	---	---	9.3	8.7	8.9	11.4	10.7	11.0	13.6	13.2	13.4
31	---	---	---	9.2	8.7	8.9	11.8	10.6	11.0	---	---	---
MONTH	---	---	---	---	---	---	11.8	8.5	10.0	13.7	10.6	12.5

09058000 COLORADO RIVER NEAR KREMMLING, CO

LOCATION.--Lat 40°02'12", long 106°26'22", in NE¼SW¼ 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 mi^2.

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 fair. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	828	e737	e550	e795	e785	e805	1020	1220	3130	1240	1390	985
2	820	e705	e560	e795	e780	e805	1120	1260	2220	1480	1360	990
3	801	e688	e570	e800	e790	e805	1210	1280	1650	1500	1310	962
4	807	e664	e600	e800	e800	e810	1220	1320	1620	1280	1410	952
5	866	e670	e650	e800	e800	e810	1230	1410	1810	1210	1430	941
6	881	e650	e700	e800	e797	e810	1220	1430	1650	1070	1460	950
7	904	e630	e750	e790	e795	e810	1150	1650	1480	925	1380	937
8	898	e600	e780	e785	e790	e815	1120	1880	1380	848	1190	945
9	886	e585	e830	e785	e790	e820	1130	1910	1330	928	1190	934
10	890	e585	e800	e790	e785	e815	1120	1930	1250	895	1190	983
11	890	e585	e770	e790	e785	e810	1120	2020	1230	924	1170	1050
12	909	e610	e780	e795	e780	e805	1140	2080	1210	945	1000	1070
13	924	600	e790	e795	e785	e800	1160	1870	1180	858	1010	1080
14	938	e590	e800	e800	e790	e805	1160	1830	1180	932	1010	1090
15	920	e570	e800	e790	e785	e805	1130	1770	1180	838	1010	1080
16	918	e540	e800	e790	e790	e810	1120	1540	1150	897	1010	1070
17	875	544	e800	e790	e795	891	1120	1440	1070	972	996	1020
18	881	540	e800	e785	e790	936	1120	1460	1050	1020	1010	1010
19	866	531	e795	e790	e795	891	1140	1510	1040	1000	994	1020
20	744	546	e795	e790	e790	872	1130	1600	937	963	979	1050
21	657	e536	e793	e790	e795	878	1160	1620	908	811	972	1050
22	677	e540	e792	e780	e795	922	1050	1590	973	815	965	1050
23	663	e550	e790	e790	e800	1010	1030	1530	955	855	950	e1090
24	e680	e540	e790	e780	e800	1140	1110	1400	903	847	864	e1080
25	e687	e530	e795	e790	e800	1220	1170	1370	919	902	772	e1080
26	e674	e535	e795	e800	e805	1250	1190	1430	902	942	762	e1070
27	e660	e535	e790	e790	e805	1210	1160	1680	875	1010	1000	e1060
28	e690	e535	e790	e785	e800	1170	1130	2140	835	1100	1020	e1030
29	e735	e535	e800	e790	---	1150	1160	2490	1030	1130	1010	e960
30	e750	e535	e795	e790	---	1090	1200	2860	1110	1340	981	e960
31	e770	---	e795	e785	---	1030	---	3160	---	1470	973	---
TOTAL	25089	17541	23445	24525	22197	28600	34240	53680	38157	31947	33768	30549
MEAN	809	585	756	791	793	923	1141	1732	1272	1031	1089	1018
MAX	938	737	830	800	805	1250	1230	3160	3130	1500	1460	1090
MIN	657	530	550	780	780	800	1020	1220	835	811	762	934
AC-FT	49760	34790	46500	48650	44030	56730	67920	106500	75680	63370	66980	60590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1998, BY WATER YEAR (WY)

MEAN	740	647	581	562	553	661	1051	1950	2203	1592	1087	857
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	477	379	539	630	733
(WY)	1989	1978	1964	1964	1964	1977	1964	1977	1966	1963	1963	1969

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1962 - 1998	
ANNUAL TOTAL	635415		363738			
ANNUAL MEAN	1741		997		1042	
HIGHEST ANNUAL MEAN					2378	1984
LOWEST ANNUAL MEAN					568	1964
HIGHEST DAILY MEAN	8270	Jun 12	3160	May 31	a12700	May 26 1984
LOWEST DAILY MEAN	e530	Nov 25	e530	Nov 25	b250	Dec 13 1963
ANNUAL SEVEN-DAY MINIMUM	535	Nov 24	535	Nov 24	264	Dec 20 1963
INSTANTANEOUS PEAK FLOW			3270	May 31	c13600	May 26 1984
INSTANTANEOUS PEAK STAGE			9.61	May 31	16.60	May 26 1984
ANNUAL RUNOFF (AC-FT)	1260000		721500		755200	
10 PERCENT EXCEEDS	4740		1420		1910	
50 PERCENT EXCEEDS	922		904		768	
90 PERCENT EXCEEDS	632		676		430	

e-Estimated.
a-Maximum daily discharge for period of record, 20000 ft^3/s, Jun 7, 1912.
b-Minimum discharge observed for period of record, 166 ft^3/s, Dec 19, 1907.
c-Maximum discharge observed for period of record, 21500 ft^3/s, Jun 7, 1912, gage height, 21.8 ft, datum then in use, from rating curve extended above 14000 ft^3/s.

09058000 COLORADO RIVER NEAR KREMMLING, CO--Continued
WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1989 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 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)
OCT											
17...	1040	869	227	8.4	7.5	8.0	K6	K1	91	27	5.6
NOV											
21...	1000	557	212	8.2	1.2	9.6	K2	K1	80	24	4.7
MAR											
26...	1000	1250	234	8.2	3.0	9.4	K7	14	87	26	5.3
MAY											
20...	1000	1630	420	8.1	9.0	7.9	95	29	150	38	13
JUN											
11...	0930	1190	277	8.1	10.5	7.2	39	K17	100	29	6.8
AUG											
12...	1030	980	241	8.2	12.0	7.6	K7	K6	95	30	4.9

DATE	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 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)
OCT										
17...	8.7	0.4	1.3	70	36	2.5	0.3	9.3	141	133
NOV										
21...	8.3	0.4	1.6	72	28	2.5	0.3	9.7	132	123
MAR										
26...	8.4	0.4	2.5	69	36	3.4	0.2	8.1	141	132
MAY										
20...	16	0.6	2.1	88	93	2.6	0.2	9.4	243	229
JUN										
11...	11	0.5	1.5	85	44	2.4	0.2	11	178	158
AUG										
12...	8.0	0.4	2.0	72	38	3.2	0.3	9.0	136	139

DATE	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 TOTAL (MG/L AS N) (00605)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT										
17...	0.19	331	<0.01	0.08	<0.01	--	<0.2	0.01	<0.01	<0.01
NOV										
21...	0.18	199	<0.01	0.06	<0.02	--	0.1	<0.01	<0.01	<0.01
MAR										
26...	0.19	477	0.02	0.14	0.03	0.43	0.5	0.10	0.06	0.04
MAY										
20...	0.33	1070	<0.01	0.09	0.05	0.44	0.5	0.08	0.06	0.01
JUN										
11...	0.24	570	<0.01	0.05	0.03	0.29	0.3	0.01	<0.01	<0.01
AUG										
12...	0.18	360	<0.01	0.14	0.09	0.05	0.1	<0.01	<0.01	0.02

K-Based on non-ideal colony count.

09058000 COLORADO RIVER NEAR KREMMLING, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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								
17...	33	<0.5	<1	<5	<3	<10	37	<10
NOV								
21...	31	<0.5	<1	<5	<3	<10	29	<10
MAR								
26...	35	<1	<8	<14	<12	<10	37	<100
MAY								
20...	41	<1	<8	<14	<12	<10	24	<100
JUN								
11...	35	<1	<8	<14	<12	<10	75	<100
AUG								
12...	39	<1	<8	<14	<12	<10	33	<100

DATE	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								
17...	9	18	<10	<10	<1	180	<6	<3
NOV								
21...	7	24	<10	<10	<1	160	<6	7
MAR								
26...	10	28	<60	<40	<4	170	<10	<20
MAY								
20...	15	21	<60	<40	<4	330	<10	<20
JUN								
11...	10	45	<60	<40	<4	210	<10	<20
AUG								
12...	10	22	<60	<40	<4	170	<10	<20

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 mi^2.

PERIOD OF RECORD.--October 1947 to September 1954, October 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 9,145.25 ft 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	e7.0	e3.3	e3.7	e2.8	e1.9	e3.7	34	115	129	47	5.8
2	9.8	e6.5	e3.3	e3.8	e3.0	e2.0	e3.6	34	144	103	38	8.0
3	15	e6.6	e3.0	e3.7	e3.1	e2.1	e3.5	38	154	93	27	7.0
4	19	e6.4	e2.9	e3.7	e3.0	e2.3	e3.7	50	102	80	36	5.9
5	14	e6.3	e3.3	e3.6	e2.9	e2.3	e3.7	52	70	75	30	5.3
6	12	e6.0	e3.6	e3.3	e2.9	e2.3	e3.8	45	53	73	23	4.9
7	10	e5.9	e3.7	e3.0	e2.9	e2.2	e3.7	36	44	67	18	4.7
8	11	e5.9	e3.6	e3.3	e2.8	e2.1	e3.7	31	43	61	16	4.3
9	11	e6.0	e3.5	e3.4	e2.9	e2.4	e3.4	33	40	59	13	4.0
10	12	e6.1	e3.2	e3.5	e2.8	e2.7	e4.2	36	45	62	14	3.8
11	12	e6.2	e3.1	e3.6	e2.6	e2.9	e4.7	46	47	58	12	3.6
12	15	e5.8	e3.0	e3.6	e2.9	e3.0	e5.2	40	44	54	10	3.9
13	13	e5.5	e3.0	e3.6	e2.8	e3.2	e5.6	47	59	48	9.0	5.7
14	13	e4.8	e3.4	e3.3	e2.9	e3.6	e5.9	66	52	42	8.1	5.6
15	e15	e4.7	e3.4	e3.2	e2.8	e4.1	e6.1	47	46	37	8.2	5.4
16	e10	e4.9	e3.6	e3.6	e2.9	e4.3	e5.3	38	41	34	7.0	6.7
17	e10	e5.0	e3.7	e3.4	e2.8	e4.7	e4.8	44	48	32	6.9	5.8
18	e10	e4.8	e3.9	e3.3	e2.7	e4.6	e4.6	63	46	30	7.4	5.0
19	e10	e4.7	e4.1	e3.3	e2.6	e4.2	e4.6	74	41	28	7.3	4.5
20	e9.9	e4.8	e3.8	e3.2	e2.5	e4.4	e4.7	77	66	25	6.5	4.3
21	e9.4	e4.7	e3.8	e3.0	e2.6	e5.0	6.0	85	81	22	6.1	4.0
22	e8.8	e4.4	e4.1	e3.0	e2.7	e6.0	6.0	83	94	21	6.7	3.7
23	e9.0	e4.2	e3.7	e3.5	e2.8	e6.2	7.4	60	118	24	6.2	3.6
24	e8.6	e3.9	e3.6	e3.3	e2.9	e6.2	13	54	104	25	5.6	3.7
25	e8.2	e4.0	e3.6	e3.4	e2.8	e6.1	19	46	87	33	5.5	3.4
26	e8.1	e4.0	e3.3	e3.3	e2.6	e5.9	18	63	112	31	5.9	3.3
27	e8.1	e4.4	e3.3	e3.2	e2.4	e5.6	17	79	126	24	6.5	3.4
28	e8.1	e3.9	e3.9	e3.1	e1.8	e5.0	19	105	128	24	6.7	3.2
29	e7.6	e3.6	e4.0	e3.0	---	e4.7	24	118	132	39	6.2	3.2
30	e7.5	e3.4	e3.8	e3.0	---	e4.3	31	130	135	34	5.8	3.6
31	e7.3	---	e3.7	e2.9	---	e3.9	---	119	---	25	5.7	---
TOTAL	333.4	154.4	109.2	103.8	77.2	120.2	248.9	1873	2417	1492	411.3	139.3
MEAN	10.8	5.15	3.52	3.35	2.76	3.88	8.30	60.4	80.6	48.1	13.3	4.64
MAX	19	7.0	4.1	3.8	3.1	6.2	31	130	154	129	47	8.0
MIN	7.3	3.4	2.9	2.9	1.8	1.9	3.4	31	40	21	5.5	3.2
AC-FT	661	306	217	206	153	238	494	3720	4790	2960	816	276

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1998, BY WATER YEAR (WY)

MEAN	6.25	3.97	2.76	2.21	2.00	2.56	11.0	66.0	126	58.9	14.9	7.31
MAX	15.1	8.82	5.41	4.00	4.01	5.52	23.0	107	202	146	45.3	14.8
(WY)	1985	1985	1986	1952	1996	1995	1952	1984	1952	1995	1984	1984
MIN	1.71	1.23	1.04	.79	.83	.84	2.12	26.6	52.1	8.70	3.69	2.16
(WY)	1980	1980	1980	1975	1975	1975	1973	1968	1954	1977	1954	1974

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1948 - 1998	
ANNUAL TOTAL	12255.1		7479.7			
ANNUAL MEAN	33.6		20.5		25.4	
HIGHEST ANNUAL MEAN					41.2	1984
LOWEST ANNUAL MEAN					12.9	1977
HIGHEST DAILY MEAN	303	Jun 20	154	Jun 3	362	Jun 9 1985
LOWEST DAILY MEAN	e,a2.3	Mar 2	e1.8	Feb 28	.40	Oct 6 1975
ANNUAL SEVEN-DAY MINIMUM	2.4	Mar 1	2.1	Feb 28	.62	Mar 28 1975
INSTANTANEOUS PEAK FLOW			209	Jun 3	560	Jun 8 1985
INSTANTANEOUS PEAK STAGE			4.45	Jun 3	b5.12	Jun 8 1985
ANNUAL RUNOFF (AC-FT)	24310		14840		18370	
10 PERCENT EXCEEDS	119		61		86	
50 PERCENT EXCEEDS	7.5		5.8		4.8	
90 PERCENT EXCEEDS	3.0		2.9		1.6	

e-Estimated.
a-Also occurred Mar 3.
b-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 mi^2.

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 for 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2.0	e1.2	e.78	e.54	e.40	e.24	e.64	3.3	14	4.6	2.1	1.7
2	e1.7	e1.2	e.65	e.55	e.40	e.26	e.62	3.5	15	4.4	2.1	1.8
3	e2.4	e1.1	e.62	e.56	e.41	e.27	e.55	4.5	15	4.2	2.0	1.9
4	e3.2	e1.1	e.56	e.54	e.42	e.31	e.55	5.7	15	4.2	2.1	1.9
5	e2.4	e1.1	e.61	e.51	e.41	e.31	e.58	5.7	14	4.1	2.1	1.9
6	e1.9	e1.0	e.60	e.48	e.39	e.31	e.59	5.3	12	3.8	2.1	1.9
7	e1.6	e1.0	e.59	e.44	e.39	e.31	e.58	4.4	10	3.8	2.2	1.9
8	e1.6	e.98	e.58	e.46	e.40	e.29	e.58	4.4	9.6	3.8	2.2	2.0
9	e1.8	e.96	e.56	e.44	e.41	e.34	e.66	4.9	9.1	3.9	2.2	2.0
10	e2.3	e.96	e.53	e.48	e.39	e.36	e.71	5.5	8.6	3.9	2.2	2.0
11	e2.4	e1.0	e.52	e.49	e.37	e.37	e.74	6.8	7.7	3.6	2.3	2.0
12	e2.4	e1.1	e.48	e.48	e.38	e.40	e.80	6.7	7.6	3.4	2.3	1.9
13	e2.4	e.98	e.48	e.48	e.36	e.42	e.88	7.9	7.6	3.2	2.3	1.9
14	e2.3	e.88	e.55	e.46	e.40	e.48	e.99	8.8	8.1	3.1	1.8	1.9
15	e2.4	e.86	e.55	e.43	e.37	e.52	e1.1	6.8	8.2	3.0	1.8	1.9
16	e2.2	e.80	e.60	e.49	e.39	e.59	e1.1	6.1	7.4	2.9	1.9	2.0
17	e2.0	e.80	e.62	e.48	e.38	e.62	e.95	6.9	7.3	2.8	1.9	2.0
18	e1.9	e.80	e.64	e.48	e.37	e.62	e.86	8.1	7.3	2.7	2.0	1.9
19	e1.8	e.78	e.65	e.46	e.36	e.58	e.75	8.8	6.8	2.6	2.0	1.9
20	e1.8	e.78	e.62	e.45	e.35	e.58	e.76	8.6	6.2	2.5	2.0	1.9
21	e1.7	e.77	e.62	e.41	e.34	e.65	1.1	9.1	6.0	2.5	2.1	1.9
22	e1.6	e.76	e.65	e.43	e.37	e.82	1.1	9.7	5.9	2.5	2.1	1.9
23	e1.6	e.71	e.60	e.47	e.38	e.95	1.2	9.2	5.9	2.7	2.1	1.9
24	e1.5	e.68	e.57	e.45	e.39	e1.0	1.8	8.8	5.9	2.9	2.0	1.8
25	e1.4	e.67	e.57	e.46	e.39	e.99	1.9	8.2	5.6	3.4	2.1	1.8
26	e1.4	e.66	e.56	e.45	e.35	e.94	1.6	8.4	5.7	2.8	2.1	1.8
27	e1.3	e.70	e.52	e.44	e.32	e.93	1.6	8.8	5.2	2.3	2.1	1.8
28	e1.3	e.82	e.52	e.42	e.32	e.88	1.7	11	5.0	2.3	2.2	1.9
29	e1.3	e.78	e.57	e.43	---	e.74	2.1	11	4.8	2.3	2.3	1.9
30	e1.3	e.79	e.58	e.41	---	e.75	2.9	12	4.8	2.2	1.8	1.8
31	e1.2	---	e.54	e.40	---	e.69	---	14	---	2.1	1.7	---
TOTAL	58.1	26.72	18.09	14.47	10.61	17.52	31.99	232.9	251.3	98.5	64.2	56.8
MEAN	1.87	.89	.58	.47	.38	.57	1.07	7.51	8.38	3.18	2.07	1.89
MAX	3.2	1.2	.78	.56	.42	1.0	2.9	14	15	4.6	2.3	2.0
MIN	1.2	.66	.48	.40	.32	.24	.55	3.3	4.8	2.1	1.7	1.7
AC-FT	115	53	36	29	21	35	63	462	498	195	127	113

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1998, BY WATER YEAR (WY)

MEAN	1.18	.98	.79	.71	.67	.76	1.48	7.51	11.0	3.48	1.67	1.39
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	.007	.002	.000	.000	.000	.000	.000	1.22	.91	.73	.17	.042
(WY)	1984	1984	1984	1984	1984	1984	1984	1977	1977	1977	1982	1972

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1972 - 1998	
ANNUAL TOTAL	2079.95		881.20			
ANNUAL MEAN	5.70		2.41		2.64	
HIGHEST ANNUAL MEAN					5.73	1997
LOWEST ANNUAL MEAN					.58	1977
HIGHEST DAILY MEAN	48	Jun 2	a15	Jun 2	48	Jun 2 1997
LOWEST DAILY MEAN	e,b.48	Dec 12	e.24	Mar 1	c.00	Aug 12 1972
ANNUAL SEVEN-DAY MINIMUM	.52	Dec 9	.29	Mar 1	.00	Sep 12 1972
INSTANTANEOUS PEAK FLOW			21	Jun 2	52	Jun 1 1997
INSTANTANEOUS PEAK STAGE			3.03	Jun 2	d3.29	Jun 1 1997
ANNUAL RUNOFF (AC-FT)	4130		1750		1910	
10 PERCENT EXCEEDS	20		6.8		6.4	
50 PERCENT EXCEEDS	1.8		1.6		1.1	
90 PERCENT EXCEEDS	.71		.40		.48	

e-Estimated.
a-Also occurred Jun 3 and 4.
b-Also occurred Dec 13.
c-No flow at times some years.
d-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 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.46	e.43	e.32	e.06	e.04	e.03	e.16	1.6	5.3	1.0	1.2	.41
2	e.57	e.42	e.21	e.06	e.04	e.05	e.14	1.6	4.9	.97	.66	.33
3	e.54	e.42	e.18	e.06	e.05	e.05	e.13	2.0	4.7	.95	.84	.24
4	e.51	e.43	e.22	e.05	e.05	e.04	e.13	2.8	4.7	.93	.93	.19
5	e.48	e.42	e.22	e.05	e.05	e.04	e.14	2.9	5.0	.93	.55	.17
6	e.42	e.41	e.22	e.04	e.04	e.04	e.13	2.8	4.2	.99	.47	.16
7	e.53	e.42	e.22	e.05	e.05	e.04	e.15	2.5	3.7	.95	.39	.13
8	e.52	e.42	e.17	e.05	e.05	e.04	e.16	2.8	3.5	1.1	.36	.13
9	e.50	e.43	e.15	e.04	e.05	e.04	e.17	3.3	3.0	1.1	.34	.13
10	e.48	e.43	e.13	e.05	e.04	e.04	e.19	4.3	2.8	1.0	.41	.11
11	e.51	e.43	e.12	e.05	e.04	e.04	e.20	4.6	2.7	.93	.45	.11
12	e.52	e.41	e.13	e.05	e.05	e.05	e.24	5.0	2.4	.92	.37	.14
13	e.52	e.35	e.12	e.04	e.04	e.06	e.26	6.4	2.3	.79	.31	.19
14	e.53	e.32	e.11	e.04	e.05	e.07	e.34	6.7	2.7	.74	.28	.20
15	e.52	e.29	e.12	e.04	e.05	e.08	e.38	5.6	2.7	.69	.28	.14
16	e.53	e.37	e.12	e.05	e.05	e.09	e.42	5.9	2.1	.67	.27	.18
17	e.52	e.38	e.10	e.05	e.04	e.10	.44	7.2	2.6	.64	.27	.15
18	e.51	e.37	e.09	e.05	e.04	e.11	.46	8.8	3.0	.61	.34	.14
19	e.50	e.37	e.09	e.05	e.04	e.11	.47	8.7	2.3	.61	.35	.13
20	e.49	e.36	e.09	e.05	e.04	e.11	.50	8.6	1.9	.56	.28	.12
21	e.47	e.35	e.08	e.04	e.04	e.12	.50	9.1	1.9	.59	.27	.12
22	e.48	e.33	e.08	e.04	e.05	e.15	.54	8.4	1.8	.62	.29	.12
23	e.50	e.32	e.07	e.05	e.05	e.19	.54	7.3	1.5	.95	.23	.14
24	e.48	e.33	e.07	e.05	e.05	e.22	.58	6.8	1.4	1.1	.21	.16
25	e.47	e.34	e.06	e.05	e.05	e.23	.58	6.4	1.3	1.4	.22	.14
26	e.48	e.35	e.06	e.05	e.05	e.22	.61	6.9	1.3	.96	.25	.14
27	e.48	e.36	e.06	e.05	e.04	e.21	.63	6.8	1.3	.60	.27	.13
28	e.47	e.34	e.06	e.04	e.04	e.21	.65	6.7	1.2	.63	.22	.12
29	e.46	e.32	e.06	e.04	---	e.19	.67	6.6	1.1	.82	.18	.14
30	e.45	e.33	e.05	e.04	---	e.18	.84	6.2	1.1	.58	.17	.18
31	e.44	---	e.06	e.04	---	e.17	---	5.8	---	.76	.21	---
TOTAL	15.34	11.25	3.84	1.47	1.27	3.32	11.36	171.1	80.4	20.09	11.87	4.89
MEAN	.49	.38	.12	.047	.045	.11	.38	5.52	2.68	.84	.38	.16
MAX	.57	.43	.32	.06	.05	.23	.84	9.1	5.3	1.4	1.2	.41
MIN	.42	.29	.05	.04	.04	.03	.13	1.6	1.1	.56	.17	.11
AC-FT	30	22	7.6	2.9	2.5	6.6	23	339	159	52	24	9.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1998, BY WATER YEAR (WY)

MEAN	.27	.18	.12	.097	.088	.13	.63	6.81	6.76	.98	.34	.26
MAX	.78	.45	.26	.24	.21	.29	1.73	18.0	23.2	3.50	1.25	.70
(WY)	1985	1985	1983	1983	1983	1986	1971	1984	1983	1995	1983	1984
MIN	.083	.030	.000	.000	.000	.000	.000	1.26	.30	.15	.065	.079
(WY)	1993	1965	1965	1965	1965	1991	1991	1977	1977	1977	1981	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1965 - 1998	
ANNUAL TOTAL	973.27		342.20			
ANNUAL MEAN	2.67		.94		1.40	
HIGHEST ANNUAL MEAN					3.54	1984
LOWEST ANNUAL MEAN					.31	1977
HIGHEST DAILY MEAN	a36	Jun 1	9.1	May 21	63	May 25 1984
LOWEST DAILY MEAN	e.05	Dec 30	e.03	Mar 1	b.00	Nov 10 1964
ANNUAL SEVEN-DAY MINIMUM	.06	Dec 25	.04	Mar 4	.00	Nov 10 1964
INSTANTANEOUS PEAK FLOW			13	May 18	82	May 25 1984
INSTANTANEOUS PEAK STAGE			2.13	May 18	c2.21	May 25 1984
ANNUAL RUNOFF (AC-FT)	1930		679		1010	
10 PERCENT EXCEEDS	8.2		2.8		3.4	
50 PERCENT EXCEEDS	.47		.32		.20	
90 PERCENT EXCEEDS	.13		.05		.05	

e-Estimated.
a-Also occurred Jun 2.
b-No flow some days some years.
c-Maximum gage height, 3.51 ft, May 18, 1973, backwater from ice.

09058800 EAST MEADOW CREEK NEAR MINTURN, CO

LOCATION.--Lat 39°43'54", long 106°25'34", Eagle County, Hydrologic Unit 14010001, on left bank 1.4 mi upstream from mouth, and 10 mi north of Minturn.

DRAINAGE AREA.--3.61 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 9,455 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	e1.6	e1.3	e1.1	e.97	e.94	e.85	2.0	25	16	6.2	2.1
2	1.2	e1.5	e1.4	e1.2	e.97	e.97	e.86	2.0	26	15	4.0	2.1
3	2.4	e1.5	e1.3	e1.2	e.98	e.98	e.83	3.0	26	14	4.0	1.6
4	1.6	e1.6	e1.0	e1.1	e1.0	e.97	e.83	4.2	23	13	4.3	1.3
5	1.4	e1.5	e1.1	e1.1	e1.0	e.94	e.84	4.0	20	11	3.3	1.2
6	1.2	e1.5	e1.2	e1.0	e1.0	e.95	e.84	3.3	18	11	2.8	1.3
7	1.0	e1.5	e1.3	e.94	e1.0	e.92	e.76	2.6	16	9.7	2.4	1.3
8	1.4	e1.4	e1.3	e.92	e.96	e.91	e.69	2.5	14	8.8	2.3	1.2
9	1.5	e1.5	e1.2	e.95	e.94	e.92	e.62	3.0	14	9.2	2.2	1.2
10	1.7	e1.5	e1.0	e1.0	e.93	e.92	e.58	4.5	14	9.4	2.5	1.1
11	1.6	e1.5	e.94	e1.1	e.88	e.92	e.59	6.0	14	8.0	2.3	1.1
12	1.4	e1.5	e.82	e1.1	e.94	e.92	e.68	5.4	13	6.7	2.0	1.4
13	e1.9	e1.5	e.82	e1.0	e.92	e.92	e.69	8.2	14	5.8	1.8	1.4
14	e1.9	e1.2	e.87	e.94	e.97	e.98	e.64	9.5	14	5.2	1.9	1.3
15	e1.9	e1.0	e.88	e.95	e.97	e1.0	e.64	6.8	14	4.7	2.1	1.3
16	e1.9	e1.2	e1.1	e1.0	e.97	e1.1	.67	6.8	13	4.4	1.8	1.5
17	e1.9	e1.4	e1.0	e1.1	e.98	e1.1	.67	9.9	14	4.0	1.8	1.2
18	e1.8	e1.4	e1.2	e1.0	e.94	e.88	.67	13	13	3.7	2.7	1.0
19	e1.9	e1.4	e1.1	e1.0	e.90	e.87	.75	14	13	3.4	2.3	.92
20	e1.9	e1.5	e1.0	e.98	e.88	e.85	.75	15	14	3.2	1.9	.87
21	e1.8	e1.4	e1.0	e.90	e.92	e.86	.75	16	15	2.9	2.0	.84
22	e1.8	e1.3	e1.2	e.88	e.94	e.92	.75	15	17	2.9	2.1	.84
23	e1.8	e1.3	e1.0	e1.0	e.96	e.94	.76	13	18	3.2	1.7	.94
24	e1.9	e1.3	e.92	e1.1	e1.0	e.95	1.2	13	18	3.9	1.5	.92
25	e1.8	e1.4	e.90	e1.0	e.98	e.98	1.2	13	18	6.3	1.5	.83
26	e1.7	e1.4	e.84	e1.0	e.90	e1.0	.95	15	19	4.2	1.6	.78
27	e1.8	e1.5	e.76	e.96	e.83	e1.1	.78	18	19	3.2	2.1	.75
28	e1.8	e1.4	e.90	e.98	e.80	e1.0	.81	21	19	3.1	1.6	.75
29	e1.8	e1.3	e1.0	e.95	---	e1.0	1.2	23	18	3.5	1.4	.96
30	e1.7	e1.3	e1.2	e.96	---	e.93	1.7	24	17	3.1	1.3	.97
31	e1.7	---	e1.1	e.98	---	e.89	---	24	---	3.9	1.3	---
TOTAL	52.3	42.3	32.65	31.39	26.43	29.53	24.55	320.7	510	206.4	72.7	34.97
MEAN	1.69	1.41	1.05	1.01	.94	.95	.82	10.3	17.0	6.66	2.35	1.17
MAX	2.4	1.6	1.4	1.2	1.0	1.1	1.7	24	26	16	6.2	2.1
MIN	1.0	1.0	.76	.88	.80	.85	.58	2.0	13	2.9	1.3	.75
AC-FT	104	84	65	62	52	59	49	636	1010	409	144	69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1998, BY WATER YEAR (WY)

MEAN	1.31	.97	.78	.69	.66	.74	1.59	11.1	23.1	8.52	2.25	1.40
MAX	2.78	2.00	1.50	1.11	1.04	1.16	3.75	26.3	45.7	28.8	5.85	3.09
(WY)	1966	1966	1966	1983	1983	1983	1987	1986	1983	1983	1965	1984
MIN	.73	.55	.44	.35	.40	.40	.66	2.97	7.55	1.28	.68	.75
(WY)	1978	1979	1979	1979	1965	1965	1975	1975	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1965 - 1998	
ANNUAL TOTAL	2492.48		1383.92			
ANNUAL MEAN	6.83		3.79		4.43	
HIGHEST ANNUAL MEAN					8.05	1983
LOWEST ANNUAL MEAN					1.83	1977
HIGHEST DAILY MEAN	56	Jun 6	a26	Jun 2	81	Jun 20 1983
LOWEST DAILY MEAN	e.47	Jan 7	e.58	Apr 10	.32	Jan 7 1979
ANNUAL SEVEN-DAY MINIMUM	.56	Mar 1	.63	Apr 9	.33	Jan 6 1979
INSTANTANEOUS PEAK FLOW			32	Jun 2	107	Jun 17 1995
INSTANTANEOUS PEAK STAGE			1.45	Jun 2	b1.86	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	4940		2750		3210	
10 PERCENT EXCEEDS	29		14		15	
50 PERCENT EXCEEDS	1.5		1.3		1.1	
90 PERCENT EXCEEDS	.60		.85		.58	

e-Estimated.
a-Also occurred Jun 3.
b-Maximum gage height, 2.22 ft, May 12, 1970, backwater from ice.

09059500 PINEY RIVER NEAR STATE BRIDGE, CO

LOCATION.--Lat 39°48'00", long 106°35'00", in SW¼NE¼ sec.16, T.3 S., R.82 W., Eagle County, Hydrologic Unit 14010001, on left bank at old bridge crossing, 1.2 mi downstream from Rock Creek, and 6.0 mi southeast of State Bridge.

DRAINAGE AREA.--86.2 mi^2.

PERIOD OF RECORD.--May 1944 to current year. Water-quality data available, October 1993 to September 1996.

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Datum of gage is 7,272.35 ft above sea level. Prior to July 29, 1944, nonrecording gage, and July 29, 1944 to Oct. 24, 1947, water-stage recorder, at datum 2.38 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 400 acres 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	28	e23	e19	e15	e11	32	147	455	245	132	27
2	36	27	e23	e20	e15	e13	28	148	469	211	92	30
3	51	e25	e23	e20	e17	e13	27	179	443	191	73	25
4	53	e25	e20	e19	e16	e12	27	213	384	189	88	22
5	44	e25	e20	e19	e16	e12	28	214	302	170	74	20
6	40	e24	e22	e18	e16	e12	30	195	247	164	61	19
7	35	e24	e23	e16	e17	e12	29	159	209	136	53	18
8	39	e23	e24	e17	e16	e11	28	144	196	127	47	17
9	36	e24	e23	e16	e17	e11	28	155	179	120	44	18
10	38	25	e22	e17	e16	e11	29	172	181	130	45	17
11	39	27	e20	e18	e15	e12	33	220	181	123	44	17
12	45	27	e18	e17	e17	e12	43	206	176	112	39	21
13	41	26	e18	e17	e16	e13	45	235	203	102	36	23
14	40	e27	e21	e16	e18	e14	46	293	198	92	34	22
15	44	e23	e21	e15	e17	e15	44	222	192	84	34	20
16	45	e24	e21	e18	e17	e17	42	204	168	77	32	24
17	45	e27	e19	e17	e16	e19	40	232	179	82	33	22
18	43	e27	e21	e16	e17	e19	41	298	176	81	40	19
19	40	e26	e21	e16	e16	e17	38	337	159	75	39	18
20	38	e26	e19	e16	e15	e17	39	350	193	69	31	16
21	36	e25	e19	e15	e15	e18	39	386	232	65	30	16
22	34	e24	e20	e14	e15	20	52	379	247	66	33	15
23	32	e24	e18	e17	16	23	75	315	272	73	29	16
24	35	e24	e18	e16	16	27	112	283	251	81	26	17
25	e34	e24	e18	e17	17	37	130	285	224	121	26	15
26	e32	e24	e17	e16	e15	38	106	320	269	103	27	14
27	e32	25	e16	e16	e13	35	84	383	271	86	31	13
28	e32	e23	e18	e15	e12	34	88	444	254	76	27	13
29	e32	e23	e21	e14	---	32	106	456	252	108	24	14
30	e31	e23	e21	e15	---	32	131	493	259	109	22	15
31	e30	---	e19	e15	---	29	---	461	---	83	23	---
TOTAL	1187	749	627	517	444	598	1620	8528	7421	3551	1369	563
MEAN	38.3	25.0	20.2	16.7	15.9	19.3	54.0	275	247	115	44.2	18.8
MAX	53	28	24	20	18	38	131	493	469	245	132	30
MIN	30	23	16	14	12	11	27	144	159	65	22	13
AC-FT	2350	1490	1240	1030	881	1190	3210	16920	14720	7040	2720	1120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1998, BY WATER YEAR (WY)

MEAN	19.9	17.6	15.1	13.5	13.1	15.6	53.4	261	348	113	32.2	18.1
MAX	62.9	34.1	24.6	20.0	24.5	35.3	167	495	656	379	94.9	46.1
(WY)	1962	1985	1985	1966	1986	1986	1962	1958	1957	1983	1983	1984
MIN	6.72	8.68	7.19	7.44	7.86	9.18	16.8	99.0	74.1	14.8	6.22	4.00
(WY)	1978	1980	1980	1980	1980	1980	1961	1977	1954	1977	1954	1944

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1944 - 1998	
ANNUAL TOTAL	45116		27174			
ANNUAL MEAN	124		74.4		76.9	
HIGHEST ANNUAL MEAN					127	1984
LOWEST ANNUAL MEAN					27.2	1977
HIGHEST DAILY MEAN	992	Jun 5	493	May 30	e1300	May 25 1984
LOWEST DAILY MEAN	e11	Feb 22	e,a11	Mar 1	b1.9	Sep 1 1954
ANNUAL SEVEN-DAY MINIMUM	13	Feb 16	12	Mar 4	2.3	Sep 17 1954
INSTANTANEOUS PEAK FLOW			632	Jun 1	e,c,d1300	May 25 1984
INSTANTANEOUS PEAK STAGE			5.03	Jun 1		
ANNUAL RUNOFF (AC-FT)	89490		53900		55680	
10 PERCENT EXCEEDS	453		216		259	
50 PERCENT EXCEEDS	38		28		19	
90 PERCENT EXCEEDS	15		15		10	

e-Estimated.
a-Also occurred Mar 8-10.
b-Also occurred Sep 18-19, 1954.
c-Maximum daily discharge for period of record.
d-Maximum discharge and stage, (recorded), 1220 ft^3/s, Jun 27, 1983, gage height 5.82 ft, from peak stage indicator, but may have been higher May 25, 1984.

09060550 ROCK CREEK AT CRATER, CO

LOCATION.--Lat 39°58'42", long 106°42'34", in NW¼NE¼ sec. 17, T.1 S., R.83 W., Routt County, Hydrologic Unit 14010001, on right bank 250 ft downstream from county bridge crossing, 2 mi downstream from Kayser Mutual Ditch diversion, and 0.8 mi northwest of Crater.

DRAINAGE AREA.--72.6 mi^2.

PERIOD OF RECORD.--October 1984 to current year. Water-quality data available, December 1984 to September 1996.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 7,185 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Diversions for irrigation of approximately 1,025 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	24	17	13	12	12	25	201	169	12	15	1.9
2	20	21	17	14	12	12	25	186	159	11	12	1.9
3	34	18	17	14	13	12	22	239	149	9.8	4.4	1.8
4	27	22	16	14	13	12	23	252	141	11	3.2	1.7
5	22	21	16	14	13	12	27	253	151	13	2.9	1.7
6	20	21	16	14	12	12	25	232	124	13	2.6	1.7
7	19	21	16	13	12	12	24	236	104	13	2.5	1.6
8	26	21	17	13	12	11	23	211	101	9.7	2.4	1.6
9	24	22	17	13	13	11	23	216	94	9.3	2.2	1.7
10	26	21	17	13	13	11	23	233	77	14	1.8	1.6
11	24	21	16	13	13	11	29	236	72	10	1.8	1.7
12	29	22	15	13	13	11	42	195	71	7.3	1.7	2.0
13	25	20	15	13	13	11	41	214	61	6.7	1.7	2.1
14	25	13	15	12	12	12	38	220	64	4.5	1.6	2.0
15	32	9.7	15	12	13	13	35	187	65	3.6	1.6	2.2
16	34	9.6	15	12	13	15	33	163	54	2.7	1.6	1.9
17	31	17	15	12	13	16	32	185	58	2.3	1.7	1.9
18	29	19	15	11	13	15	31	209	64	2.2	1.7	1.9
19	26	21	15	12	13	13	31	226	61	2.2	1.8	1.8
20	24	21	14	13	12	13	31	243	43	2.1	1.8	1.8
21	23	20	14	13	13	13	35	274	41	2.1	1.7	1.8
22	21	20	14	14	12	15	47	279	51	2.1	1.7	1.8
23	21	19	14	13	12	18	69	256	33	2.3	1.7	2.0
24	22	19	13	13	12	23	98	214	28	2.7	1.7	2.2
25	18	19	13	13	11	28	102	195	25	13	1.7	2.0
26	23	19	13	13	11	32	101	196	23	15	1.7	1.7
27	21	19	12	13	12	36	105	193	21	4.2	1.8	1.7
28	24	19	12	12	12	37	127	209	18	2.7	1.9	1.6
29	24	18	13	12	---	29	163	198	15	3.4	1.7	4.9
30	26	17	14	12	---	23	204	190	13	4.0	1.7	9.5
31	26	---	14	12	---	24	---	186	---	11	1.7	---
TOTAL	766	574.3	462	398	348	525	1634	6727	2150	221.9	85.0	65.7
MEAN	24.7	19.1	14.9	12.8	12.4	16.9	54.5	217	71.7	7.16	2.74	2.19
MAX	34	24	17	14	13	37	204	279	169	15	15	9.5
MIN	18	9.6	12	11	11	11	22	163	13	2.1	1.6	1.6
AC-FT	1520	1140	916	789	690	1040	3240	13340	4260	440	169	130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1998, BY WATER YEAR (WY)

MEAN	9.71	11.7	10.3	9.73	9.70	12.6	52.8	179	78.5	10.5	5.05	5.56
MAX	24.7	19.1	14.9	13.9	12.8	20.0	95.1	305	190	26.6	11.7	19.3
(WY)	1998	1998	1998	1985	1985	1986	1986	1997	1995	1995	1986	1997
MIN	1.60	7.12	6.36	5.67	6.81	8.77	16.4	73.2	12.3	2.18	1.55	1.81
(WY)	1993	1995	1995	1995	1995	1991	1993	1990	1994	1992	1990	1992

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1985 - 1998	
ANNUAL TOTAL	20025.9		13956.9			
ANNUAL MEAN	54.9		38.2		33.0	
HIGHEST ANNUAL MEAN					52.4	1997
LOWEST ANNUAL MEAN					17.8	1990
HIGHEST DAILY MEAN	450	May 29	279	May 22	499	May 17 1996
LOWEST DAILY MEAN	1.6	Sep 2	a1.6	Aug 14	1.2	Aug 15 1990
ANNUAL SEVEN-DAY MINIMUM	1.8	Aug 28	1.7	Aug 12	1.3	Aug 25 1990
INSTANTANEOUS PEAK FLOW			395	May 3	746	May 18 1996
INSTANTANEOUS PEAK STAGE			4.13	May 3	4.67	May 18 1996
ANNUAL RUNOFF (AC-FT)	39720		27680		23920	
10 PERCENT EXCEEDS	227		150		96	
50 PERCENT EXCEEDS	17		14		10	
90 PERCENT EXCEEDS	5.3		1.8		2.6	

a-Also occurred Aug 15-16, Sep 7-8, 10, and 28.

392511106164000 EAST FORK EAGLE RIVER NEAR RED CLIFF, CO.

WATER-QUALITY RECORDS

LOCATION.--Lat 39°25'11", long 106°16'40", in SE¼SE¼ 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.--Not determined.

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

REMARKS.--No water-quality data at this site before November 1996.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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 WHOLE TOTAL UREASE (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)
OCT											
28...	0900	2.0	167	8.2	0.0	10.1	<1	<1	90	21	9.1
JAN											
14...	1130	0.8	180	8.1	0.0	9.5	<1	<1	--	--	--
MAY											
14...	0915	15	191	8.2	3.5	10.0	<1	<1	94	22	9.8
JUN											
10...	0850	16	131	8.2	4.5	8.5	K1	K1	67	16	6.9
JUL											
28...	1035	e4.0	167	8.1	9.0	7.7	12	K5	--	--	--
AUG											
18...	0845	3.9	160	8.1	8.5	8.2	K6	K5	81	19	8.0

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
OCT											
28...	1.5	0.1	0.7	99	81	--	9.4	0.2	0.1	5.4	96
JAN											
14...	--	--	--	--	--	--	--	--	--	--	--
MAY											
14...	1.3	0.1	0.8	--	--	86	13	0.3	<0.1	4.5	103
JUN											
10...	1.1	0.1	0.7	84	69	--	7.7	0.1	<0.1	4.1	78
JUL											
28...	--	--	--	--	--	--	--	--	--	--	--
AUG											
18...	1.6	0.1	0.9	--	--	80	7.4	0.1	0.1	5.2	91

DATE	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)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT										
28...	0.13	0.51	<0.01	0.11	<0.01	<0.2	<0.2	<0.01	0.02	<0.01
JAN										
14...	--	--	<0.01	0.15	<0.02	<0.1	<0.1	<0.01	<0.01	<0.01
MAY										
14...	0.14	4.07	<0.01	<0.05	0.03	0.2	0.1	<0.01	<0.01	<0.01
JUN										
10...	0.11	3.29	<0.01	<0.05	<0.02	0.1	0.1	<0.01	<0.01	<0.01
JUL										
28...	--	--	<0.01	<0.05	<0.02	<0.1	<0.1	<0.01	<0.01	<0.01
AUG										
18...	0.12	0.95	0.01	0.06	0.03	<0.1	<0.1	<0.01	<0.01	0.01

e-Estimated.
K-Based on non-ideal colony count.

392511106164000 EAST FORK EAGLE RIVER NEAR RED CLIFF, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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										
28...	<1	<1	240	<1	40	38	<0.1	<1	<0.20	<3
MAY										
14...	<1	<1	300	<1	20	14	<0.1	<1	<0.20	<20
JUN										
10...	<1	<1	130	<1	10	8	<0.1	<1	<0.20	<20
AUG										
18...	<1	<1	240	<1	30	25	<0.1	<1	<0.20	<20

09063000 EAGLE RIVER AT RED CLIFF, CO

LOCATION.--Lat 39°30'30", long 106°21'58", in NW¼SW¼ 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.

DRAINAGE AREA.--70.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1910 to September 1925, May 1944 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 2124: Drainage area. WRD Colo. 1972: 1971.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,653.80 ft above sea level, (levels by U.S. Bureau of Reclamation). Jan. 8, 1911 to Sept. 30, 1925, nonrecording gage at bridge 0.2 mi downstream at different datum. May 24, 1944 to Oct. 12, 1952, water-stage recorder at site 200 ft upstream at datum 1.46 ft lower. Prior to May 6, 1982, at site 250 ft downstream at datum 5.00 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station by Columbine, Ewing, and Wurtz ditches. Transbasin diversion upstream from station from Robinson Reservoir, capacity, 2,520 acre-ft to Tenmile Creek for mining development. Small diversions for irrigation of 400 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	e14	e14	e10	e9.8	e9.0	e10	39	148	63	37	20
2	17	e14	e15	e11	e9.7	e9.8	e10	43	156	60	34	20
3	17	e13	e14	e10	e9.9	e10	e10	53	161	57	29	17
4	17	e13	e11	e9.6	e10	e12	e10	61	151	56	31	15
5	17	e13	e11	e9.3	e10	e11	e11	67	139	54	29	15
6	16	e13	e12	e9.4	e10	e10	e10	64	122	53	26	14
7	16	e13	e12	e9.5	e10	e10	e10	55	111	52	24	13
8	18	e12	e12	e9.8	e9.5	e12	e10	51	103	54	23	13
9	18	e12	e11	e10	e9.2	e11	e9.6	55	97	57	23	14
10	17	e13	e11	e11	e9.1	e12	e10	60	94	68	24	14
11	17	e13	e8.2	e11	e9.4	e12	e11	70	90	64	24	14
12	18	e13	e7.0	e11	e9.2	e12	e12	68	87	54	26	16
13	18	e13	e7.4	e10	e9.6	e13	e13	75	90	49	23	17
14	17	e9.6	e7.6	e10	e9.4	e13	13	84	91	46	22	15
15	19	e8.9	e8.2	e10	e9.4	e13	12	75	97	44	22	15
16	18	e11	e8.4	e10	e9.2	e14	12	72	90	38	20	15
17	18	e13	e10	e11	e9.8	e13	11	77	86	36	19	13
18	18	e13	e9.6	e10	e9.8	e11	11	83	84	33	21	13
19	17	e12	e9.2	e10	e8.6	e8.8	10	90	81	30	20	12
20	17	e12	e8.8	e9.8	e9.1	e9.4	11	99	81	29	19	12
21	17	e12	e10	e9.2	e9.4	e9.8	11	113	83	29	19	12
22	17	e11	e9.2	e9.5	e9.5	e12	14	117	84	33	20	12
23	16	e11	e8.6	e10	e9.5	e13	19	105	84	40	17	13
24	17	e12	e8.2	e10	e9.5	e14	25	99	83	44	16	12
25	17	e13	e8.0	e10	e9.6	e15	28	95	80	37	17	12
26	16	e14	e7.4	e9.8	e9.0	e15	24	98	78	37	22	13
27	16	e14	e6.6	e9.5	e9.5	e15	22	105	76	31	19	13
28	17	e13	e8.6	e9.6	e8.2	e12	24	119	73	30	17	13
29	17	e13	e9.8	e9.6	---	e11	28	135	69	37	16	15
30	17	e14	e11	e9.8	---	e11	34	145	66	31	16	15
31	17	---	e10	e10	---	e10	---	144	---	29	16	---
TOTAL	531	375.5	304.8	309.4	264.9	363.8	445.6	2616	2935	1375	691	427
MEAN	17.1	12.5	9.83	9.98	9.46	11.7	14.9	84.4	97.8	44.4	22.3	14.2
MAX	19	14	15	11	10	15	34	145	161	68	37	20
MIN	16	8.9	6.6	9.2	8.2	8.8	9.6	39	66	29	16	12
AC-FT	1050	745	605	614	525	722	884	5190	5820	2730	1370	847

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1998, BY WATER YEAR (WY)

MEAN	16.2	13.5	11.2	10.4	10.2	11.8	32.5	157	199	57.0	25.8	18.4
MAX	31.8	25.2	18.8	16.3	19.7	25.6	81.3	387	422	161	54.5	39.0
(WY)	1962	1985	1985	1918	1916	1916	1916	1911	1912	1995	1945	1921
MIN	10.4	8.47	7.06	5.07	4.74	5.68	9.48	36.5	38.4	18.8	10.7	8.89
(WY)	1989	1965	1989	1989	1989	1981	1975	1981	1954	1981	1977	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1911 - 1998	
ANNUAL TOTAL	20668.9		10639.0			
ANNUAL MEAN	56.6		29.1		47.0	
HIGHEST ANNUAL MEAN					90.2	1912
LOWEST ANNUAL MEAN					16.5	1981
HIGHEST DAILY MEAN	484	Jun 4	161	Jun 3	900	Jun 5 1912
LOWEST DAILY MEAN	e6.6	Dec 27	e6.6	Dec 27	a1.0	Oct 15 1917
ANNUAL SEVEN-DAY MINIMUM	8.1	Dec 22	8.1	Dec 22	3.8	Jan 31 1989
INSTANTANEOUS PEAK FLOW			180	Jun 2	b1010	Jun 5 1912
INSTANTANEOUS PEAK STAGE			4.08	Jun 2	c4.00	Jun 5 1912
ANNUAL RUNOFF (AC-FT)	41000		21100		34020	
10 PERCENT EXCEEDS	215		83		130	
50 PERCENT EXCEEDS	17		14		16	
90 PERCENT EXCEEDS	9.6		9.5		9.0	

e-Estimated.
a-Also occurred Oct 16, 1917.
b-Maximum discharge observed, site and datum then in use, from rating curve extended above 500 ft^3/s.
c-Maximum gage height recorded, 6.43 ft, May 24, 1984.

09063000 EAGLE RIVER AT RED CLIFF, CO--Continued
WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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 WHOLE TOTAL UREASE (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)
OCT											
28...	1115	15	203	8.5	4.0	9.7	<1	<1	110	25	12
JAN											
14...	1410	10	222	8.1	0.0	10.3	K1	<1	--	--	--
MAY											
14...	1215	81	160	7.9	7.0	--	<1	<1	78	18	8.2
JUN											
10...	1240	94	154	8.3	8.0	8.2	K1	K1	77	18	8.0
JUL											
28...	1300	28	211	8.4	13.0	7.4	10	K3	--	--	--
AUG											
18...	1215	22	220	8.4	13.0	7.6	K3	K3	110	25	11

DATE	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)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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)
OCT											
28...	2.4	0.1	0.8	106	12	107	--	10	0.7	0.2	7.5
JAN											
14...	--	--	--	--	--	--	--	--	--	--	--
MAY											
14...	2.0	0.1	0.7	--	--	--	76	8.2	0.9	<0.1	6.2
JUN											
10...	1.5	0.1	0.8	90	--	74	--	6.7	0.3	<0.1	5.7
JUL											
28...	--	--	--	--	--	--	--	--	--	--	--
AUG											
18...	2.3	0.1	1	--	--	--	110	8.7	0.6	<0.1	7.0

DATE	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)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT											
28...	123	0.17	4.98	<0.01	0.10	<0.01	<0.2	<0.2	<0.01	<0.01	<0.01
JAN											
14...	--	--	--	<0.01	0.08	<0.02	<0.1	<0.1	<0.01	<0.01	<0.01
MAY											
14...	90	0.12	19.7	<0.01	<0.05	0.03	0.2	0.1	<0.01	<0.01	<0.01
JUN											
10...	85	0.12	21.6	<0.01	<0.05	0.03	<0.1	0.1	<0.01	<0.01	<0.01
JUL											
28...	--	--	--	<0.01	<0.05	<0.02	<0.1	<0.1	<0.01	<0.01	<0.01
AUG											
18...	122	0.17	7.24	<0.01	<0.05	0.04	<0.1	<0.1	<0.01	<0.01	0.01

K-Based on non-ideal colony count.

09063000 EAGLE RIVER AT RED CLIFF, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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										
28...	<1	<1	160	<1	<10	2	<0.1	<1	<0.20	<3
MAY										
14...	<1	<1	320	<1	20	8	<0.1	<1	<0.20	<20
JUN										
10...	<1	<1	170	<1	10	<4	<0.1	<1	<0.20	<20
AUG										
18...	<1	<1	120	<1	10	4	<0.1	<1	<0.20	<20

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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...	1115	18	213	4.0
DEC				
02...	1426	16	187	0.0
MAR				
11...	1209	16	226	0.0
APR				
13...	1505	13	221	6.5
MAY				
28...	1116	105	147	7.5
JUN				
25...	1111	80	176	8.5
JUL				
29...	1640	35	197	14.0
SEP				
10...	1140	14	244	11.0

09063200 WEARYMAN CREEK NEAR RED CLIFF, CO

LOCATION.--Lat 39°31'20", long 106°19'23", in SE¼SW¼ sec.15, T.6 S., R.80 W., Eagle County, Hydrologic Unit 14010003, on right bank 0.15 mi upstream from mouth, and 2.25 mi east of Red Cliff.

DRAINAGE AREA.--9.53 mi^2.

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 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	e2.9	e1.8	e2.0	e1.8	e1.6	e2.0	3.3	23	32	8.8	4.5
2	4.2	e2.8	e1.7	e2.2	e1.8	e1.8	e2.0	3.8	27	31	7.4	4.2
3	4.3	e2.8	e1.6	e2.1	e1.9	e1.8	e1.9	4.3	31	30	7.0	3.9
4	4.2	e2.9	e1.5	e2.0	e1.9	e1.7	e1.9	4.7	34	29	7.3	3.8
5	4.1	e2.8	e1.6	e1.9	e1.9	e1.7	e2.0	5.2	33	27	6.9	3.8
6	4.0	e2.7	e1.7	e1.7	e1.9	e1.8	e2.0	5.1	32	26	6.5	3.8
7	4.2	e2.8	e2.1	e1.7	e1.8	e1.7	e1.9	4.9	31	25	6.2	3.8
8	4.5	e2.8	e2.3	e1.8	e1.7	e1.6	e1.8	4.8	29	24	6.1	3.8
9	4.3	e2.8	e2.2	e1.9	e1.7	e1.7	e1.7	5.0	28	24	6.0	3.8
10	4.4	e2.9	e1.9	e1.9	e1.6	e1.7	e1.7	5.1	26	24	6.1	3.7
11	4.4	e2.8	e1.5	e1.9	e1.7	e1.8	e1.8	5.7	25	22	6.0	3.5
12	e4.2	e2.8	e1.5	e1.8	e1.7	e1.9	e1.9	6.4	25	20	5.8	3.8
13	e3.9	e2.7	e1.6	e1.7	e1.8	e2.1	e2.0	7.5	25	19	5.5	3.8
14	e3.8	e2.3	e1.7	e1.7	e1.8	e2.2	e1.9	8.5	25	18	5.4	3.6
15	e3.7	e1.9	e1.9	e1.8	e1.8	e2.2	1.8	8.9	25	17	5.2	3.5
16	e3.7	e2.6	e2.0	e1.9	e1.8	e2.3	1.6	8.6	25	16	5.1	3.9
17	e3.5	e2.7	e2.2	e1.9	e1.8	e2.1	1.6	8.9	25	e16	5.2	3.5
18	e3.5	e2.6	e2.1	e1.9	e1.7	e2.0	1.6	10	25	e15	5.2	3.5
19	e3.4	e2.7	e1.9	e1.8	e1.6	e1.9	1.6	13	25	e12	4.9	3.5
20	e3.4	e2.6	e1.9	e1.7	e1.7	e1.9	1.5	14	25	e11	4.7	3.5
21	e3.3	e2.6	e2.1	e1.5	e1.8	e2.2	1.5	14	26	e9.6	4.7	3.5
22	e3.4	e2.4	e1.9	e1.8	e1.8	e2.7	1.7	14	27	e8.2	4.7	3.5
23	e3.5	e2.5	e1.8	e1.9	e1.8	e2.7	1.9	13	29	e8.6	4.4	3.5
24	e3.5	e2.6	e1.7	e2.0	e1.9	e2.9	2.4	13	30	e9.4	4.3	3.5
25	e3.1	e2.7	e1.7	e1.8	e1.7	e3.2	2.6	13	32	e9.5	4.7	3.5
26	e3.2	e2.7	e1.4	e1.8	e1.6	e3.0	2.3	13	33	e9.0	5.1	3.4
27	e3.3	e2.6	e1.6	e1.9	e1.5	e2.6	2.2	14	33	e8.0	4.4	3.3
28	e3.4	e2.3	e1.8	e1.9	e1.5	e2.2	2.3	16	33	e7.0	4.1	3.3
29	e3.3	e2.1	e2.0	e1.8	---	e2.1	2.6	17	33	e8.2	4.0	3.3
30	e3.1	e2.1	e2.1	e1.9	---	e2.0	2.9	19	33	7.2	3.9	3.3
31	e3.0	---	e2.0	e1.8	---	e1.9	---	21	---	7.3	3.9	---
TOTAL	116.0	78.5	56.8	57.4	49.0	65.0	58.6	304.7	853	530.0	169.5	109.3
MEAN	3.74	2.62	1.83	1.85	1.75	2.10	1.95	9.83	28.4	17.1	5.47	3.64
MAX	4.5	2.9	2.3	2.2	1.9	3.2	2.9	21	34	32	8.8	4.5
MIN	3.0	1.9	1.4	1.5	1.5	1.6	1.5	3.3	23	7.0	3.9	3.3
AC-FT	230	156	113	114	97	129	116	604	1690	1050	336	217

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1998, BY WATER YEAR (WY)

MEAN	2.80	1.97	1.59	1.36	1.26	1.38	2.17	12.7	46.0	21.7	6.89	3.88
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	.87	.45	.80	1.13	4.96	16.7	5.13	2.71	2.16
(WY)	1989	1970	1989	1992	1967	1965	1968	1995	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1965 - 1998	
ANNUAL TOTAL	4381.0		2447.8			
ANNUAL MEAN	12.0		6.71		8.65	
HIGHEST ANNUAL MEAN					17.4	1984
LOWEST ANNUAL MEAN					3.61	1977
HIGHEST DAILY MEAN	115	Jun 8	34	Jun 4	140	Jun 20 1983
LOWEST DAILY MEAN	a,e1.3	Jan 7	e1.4	Dec 26	.30	Feb 21 1967
ANNUAL SEVEN-DAY MINIMUM	1.4	Feb 28	1.6	Apr 16	.40	Feb 8 1967
INSTANTANEOUS PEAK FLOW			36	Jun 4	155	Jun 20 1983
INSTANTANEOUS PEAK STAGE			1.96	Jun 4	b3.61	Jun 20 1983
ANNUAL RUNOFF (AC-FT)	8690		4860		6270	
10 PERCENT EXCEEDS	44		24		25	
50 PERCENT EXCEEDS	3.5		3.1		2.4	
90 PERCENT EXCEEDS	1.5		1.7		1.2	

e-Estimated.
a-Also occurred on Feb 8, 9, and Mar 5.
b-Site and datum then in use.

09063400 TURKEY CREEK NEAR RED CLIFF, CO

LOCATION.--Lat 39°31'22", long 106°20'08", in NW¼SW¼ sec.16, T.6 S., R.80 W., Eagle County, Hydrologic Unit 14010003, on right bank 400 ft downstream from Lime Creek, 1.9 mi northeast of Red Cliff, and 2.0 mi upstream from mouth.

DRAINAGE AREA.--23.8 mi^2.

PERIOD OF RECORD.--October 1963 to current year.

REVISED RECORDS.--WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 8,918 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	e4.6	e3.9	e3.2	e2.9	e2.5	e3.3	e4.3	78	60	19	10
2	6.9	e4.4	e3.8	e3.5	e2.8	e2.8	e3.3	e4.3	81	57	17	9.8
3	7.4	e4.3	e3.3	e3.5	e2.9	e2.8	e3.4	e5.4	89	54	16	9.2
4	6.9	e4.4	e3.0	e3.2	e3.0	e2.7	e3.5	e6.5	89	51	18	8.7
5	6.7	e4.4	e3.4	e3.1	e2.9	e2.7	e3.6	e7.4	83	47	16	8.4
6	6.6	e4.3	e3.4	e2.8	e2.9	e2.8	e3.5	e8.0	75	45	15	8.4
7	6.6	e4.2	e3.3	e2.6	e2.8	e2.7	e3.5	e7.6	70	42	14	8.1
8	7.2	e4.3	e3.3	e2.7	e2.8	e2.6	e3.3	e7.4	67	41	14	8.0
9	6.9	e4.4	e3.2	e2.8	e2.7	e2.6	e3.2	e8.4	63	39	13	8.0
10	6.9	e4.5	e3.0	e3.0	e2.5	e2.5	e3.1	e9.6	61	40	13	7.5
11	6.8	e4.4	e2.5	e3.2	e2.6	e2.5	e3.7	e12	59	38	13	7.2
12	7.2	e4.4	e2.4	e3.0	e2.7	e2.6	e4.1	e14	57	33	13	7.8
13	6.9	e3.8	e2.4	e3.0	e2.9	e2.9	e4.2	e14	58	29	12	8.2
14	7.0	e3.4	e2.6	e2.9	e2.9	e3.3	e4.2	e15	58	27	12	7.7
15	7.1	e2.9	e2.8	e3.0	e2.9	e3.4	e4.0	e16	58	27	12	7.3
16	e6.8	e3.9	e3.1	e3.0	e2.8	e3.6	e3.8	e17	56	26	12	8.0
17	e6.7	e4.1	e3.0	e3.0	e2.8	e3.5	e3.8	e20	56	24	12	7.2
18	e6.2	e4.1	e3.2	e3.0	e2.7	e3.1	e3.8	e22	55	23	12	6.8
19	e5.6	e4.1	e3.1	e3.0	e2.6	e2.9	e3.7	e26	54	22	11	6.6
20	e5.4	e4.0	e2.9	e2.8	e2.6	e2.9	e3.7	e27	56	21	11	6.6
21	e5.3	e4.0	e3.2	e2.4	e2.7	e3.2	e3.8	e26	56	21	11	6.3
22	e5.2	e3.7	e3.3	e2.5	e2.8	e3.7	e4.0	e27	58	21	11	6.3
23	e5.4	e3.7	e2.9	e3.1	e2.9	e4.0	e4.5	e26	63	21	10	6.3
24	e5.3	e3.8	e2.7	e3.1	e3.0	e4.7	e5.3	e25	65	21	10	6.3
25	e4.8	e3.9	e2.6	e3.0	e2.9	e4.9	e5.2	e27	64	20	11	6.1
26	e4.8	e4.0	e2.2	e2.8	e2.5	e4.9	e5.1	e35	64	19	12	6.0
27	e5.1	e4.1	e2.5	e2.7	e2.3	e4.5	e4.8	e47	63	18	10	5.9
28	e5.2	e3.9	e2.9	e2.9	e2.4	e4.2	e5.0	e59	63	19	9.9	5.7
29	e5.2	e3.8	e3.3	e2.8	---	e4.0	e6.1	e61	62	18	9.6	5.7
30	e4.9	e3.8	e3.3	e2.9	---	e3.6	e5.8	75	62	17	9.4	5.7
31	e4.8	---	e3.2	e2.9	---	e3.3	---	76	---	17	9.0	---
TOTAL	190.6	121.6	93.7	91.4	77.2	102.4	122.3	735.9	1943	958	387.9	219.8
MEAN	6.15	4.05	3.02	2.95	2.76	3.30	4.08	23.7	64.8	30.9	12.5	7.33
MAX	7.4	4.6	3.9	3.5	3.0	4.9	6.1	76	89	60	19	10
MIN	4.8	2.9	2.2	2.4	2.3	2.5	3.1	4.3	54	17	9.0	5.7
AC-FT	378	241	186	181	153	203	243	1460	3850	1900	769	436

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1998, BY WATER YEAR (WY)

MEAN	6.19	4.58	3.64	3.17	2.98	3.54	7.60	47.3	122	48.6	14.1	8.04
MAX	12.2	9.19	5.76	4.96	4.44	6.36	23.1	103	274	139	39.1	19.8
(WY)	1985	1985	1985	1985	1997	1985	1985	1984	1984	1995	1984	1984
MIN	3.77	2.84	2.68	1.92	1.00	2.10	2.66	17.8	40.9	11.0	6.34	4.23
(WY)	1978	1978	1982	1987	1964	1981	1973	1995	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1964 - 1998	
ANNUAL TOTAL	11354.5		5043.8			
ANNUAL MEAN	31.1		13.8		22.6	
HIGHEST ANNUAL MEAN					49.4	1984
LOWEST ANNUAL MEAN					9.46	1977
HIGHEST DAILY MEAN	347	Jun 6	a89	Jun 3	415	Jun 17 1965
LOWEST DAILY MEAN	e2.2	Dec 26	e2.2	Dec 26	b1.0	Jan 21 1964
ANNUAL SEVEN-DAY MINIMUM	2.7	Dec 10	2.6	Feb 26	1.0	Jan 21 1964
INSTANTANEOUS PEAK FLOW			93	Jun 3	c556	Jun 8 1985
INSTANTANEOUS PEAK STAGE			2.26	Jun 3	d2.87	Jun 8 1985
ANNUAL RUNOFF (AC-FT)	22520		10000		16410	
10 PERCENT EXCEEDS	92		54		71	
50 PERCENT EXCEEDS	7.1		5.1		5.8	
90 PERCENT EXCEEDS	3.8		2.8		2.8	

e-Estimated.
a-Also occurred Jun 4.
b-Also occurred Jan 22 to Feb 29, 1964.
c-From rating curve extended above 325 ft^3/s.
d-Maximum gage height for period of record, 3.24 ft, Jun 6, 1997.

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 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	e3.4	e2.0	e1.8	e1.5	e1.4	e1.7	e7.5	e20	29	14	8.6
2	5.6	e3.3	e1.9	e1.8	e1.6	e1.5	e1.6	e10	e18	22	12	9.6
3	5.9	e3.0	e1.7	e1.7	e1.6	e1.5	e1.5	e11	e17	18	9.3	8.0
4	6.9	e2.8	e1.6	e1.6	e1.6	e1.4	e1.5	e11	e16	14	8.9	7.3
5	6.8	e2.6	e1.7	e1.6	e1.6	e1.4	e1.5	e10	16	13	9.0	6.8
6	6.1	e2.3	e1.8	e1.5	e1.5	e1.5	e1.5	e9.8	14	14	8.7	6.4
7	5.4	e2.2	e1.9	e1.4	e1.5	e1.4	e1.6	e8.7	11	13	7.9	6.2
8	5.7	e2.2	e1.9	e1.4	e1.5	e1.4	e1.5	e9.0	11	13	7.1	e6.2
9	5.8	e2.3	e1.8	e1.5	e1.4	e1.4	e1.4	e9.5	11	13	7.1	e5.4
10	5.8	e2.3	e1.7	e1.8	e1.3	e1.5	e1.3	e10	11	33	7.1	e4.5
11	6.3	e2.3	e1.4	e1.8	e1.4	e1.5	e1.3	e11	12	28	7.1	e5.2
12	6.9	e2.2	e1.3	e1.7	e1.5	e1.6	e1.4	e10	14	13	7.1	e5.6
13	7.5	e1.9	e1.3	e1.6	e1.5	e1.6	e1.5	e11	15	10	7.1	e6.0
14	e8.4	e1.6	e1.4	e1.5	e1.5	e1.7	e1.5	e12	14	9.4	7.1	e5.2
15	e8.3	e1.5	e1.5	e1.5	e1.5	e1.8	e1.5	e9.6	14	8.8	6.9	e4.8
16	e7.2	e1.6	e1.6	e1.6	e1.5	e1.8	e1.4	e9.8	12	8.4	6.9	e4.7
17	e7.0	e2.2	e1.7	e1.6	e1.5	e1.9	e1.3	e10	11	7.9	6.8	e4.4
18	e6.9	e2.2	e1.8	e1.6	e1.4	e1.7	e1.3	e13	11	7.6	14	e4.3
19	e6.8	e2.1	e1.6	e1.5	e1.4	e1.5	e1.3	e14	12	7.4	12	e3.7
20	e6.8	e2.1	e1.5	e1.4	e1.4	e1.5	e1.4	e15	17	7.3	11	e3.5
21	e5.8	e2.0	e1.7	e1.3	e1.5	e1.6	e1.5	e17	22	7.4	10	e3.3
22	e5.6	e2.0	e1.6	e1.5	e1.5	e1.9	e2.8	e16	24	7.3	11	e3.2
23	e5.4	e2.0	e1.4	e1.6	e1.6	e2.3	e3.5	e14	27	7.4	9.5	e3.1
24	e5.0	e2.0	e1.4	e1.6	e1.6	e2.5	e4.6	e13	21	8.5	8.6	e2.9
25	e4.5	e2.1	e1.3	e1.5	e1.5	e2.6	e5.0	e13	19	8.3	8.4	e2.8
26	e4.1	e2.2	e1.1	e1.5	e1.4	e2.5	e4.6	e14	28	8.4	11	e2.7
27	e4.0	e2.2	e1.3	e1.5	e1.2	e2.4	e4.3	e15	33	8.1	13	e2.6
28	e4.3	e2.0	e1.6	e1.6	e1.3	e2.1	e4.6	e17	34	12	11	e2.6
29	e4.3	e1.9	e1.8	e1.5	---	e1.9	e5.4	e19	33	11	9.3	e2.8
30	e4.2	e1.9	e1.7	e1.6	---	e1.8	e6.2	e18	38	8.8	8.1	e3.1
31	e3.8	---	e1.7	e1.5	---	e1.7	---	e18	---	8.5	7.4	---
TOTAL	183.0	66.4	49.7	48.6	41.3	54.3	71.5	385.9	556	385.5	284.4	145.5
MEAN	5.90	2.21	1.60	1.57	1.48	1.75	2.38	12.4	18.5	12.4	9.17	4.85
MAX	8.4	3.4	2.0	1.8	1.6	2.6	6.2	19	38	33	14	9.6
MIN	3.8	1.5	1.1	1.3	1.2	1.4	1.3	7.5	11	7.3	6.8	2.6
AC-FT	363	132	99	96	82	108	142	765	1100	765	564	289

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1998, BY WATER YEAR (WY)

MEAN	3.22	1.88	1.14	.81	.69	.82	2.63	14.9	32.6	21.5	9.49	4.81
MAX	7.29	3.59	2.73	1.66	1.48	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	.84	.61	.35	.31	.28	.37	.71	4.00	12.7	7.96	3.55	1.65
(WY)	1980	1977	1977	1976	1977	1979	1983	1983	1977	1997	1977	1974

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1972 - 1998	
ANNUAL TOTAL	3025.0		2272.1			
ANNUAL MEAN	8.29		6.22		7.90	
HIGHEST ANNUAL MEAN					20.6	1984
LOWEST ANNUAL MEAN					4.35	1977
HIGHEST DAILY MEAN	76	Jun 20	38	Jun 30	172	Jul 10 1984
LOWEST DAILY MEAN	e1.0	Mar 13	e1.1	Dec 26	a.24	Feb 12 1977
ANNUAL SEVEN-DAY MINIMUM	1.2	Mar 7	1.4	Dec 22	.25	Feb 7 1977
INSTANTANEOUS PEAK FLOW			69	Jun 30	b300	Jul 4 1975
INSTANTANEOUS PEAK STAGE			2.65	Jun 30	c3.19	Jul 4 1975
ANNUAL RUNOFF (AC-FT)	6000		4510		5730	
10 PERCENT EXCEEDS	23		14		20	
50 PERCENT EXCEEDS	3.5		3.4		2.3	
90 PERCENT EXCEEDS	1.3		1.4		.54	

e-Estimated.
a-Also occurred Feb 13, 1977.
b-From rating curve extended above 35 ft^3/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 mi^2.

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 good 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	e14	e7.9	e4.8	e3.6	e3.0	7.6	30	64	322	50	29
2	15	e13	e7.3	e4.9	e3.9	e3.0	6.6	31	78	219	40	29
3	26	e12	e7.2	e5.1	e3.8	e3.0	7.9	42	74	181	35	22
4	21	e12	e7.6	e4.9	e3.8	e2.9	7.5	61	55	139	35	18
5	17	e12	e8.6	e4.7	e3.7	e2.9	6.3	62	43	122	34	17
6	16	e11	e8.4	e4.3	e3.7	e2.9	6.3	43	35	122	31	15
7	14	e11	e8.3	e3.9	e3.7	e2.9	6.6	42	31	110	30	14
8	17	e12	e8.1	e4.0	e3.8	e2.7	6.5	42	31	76	31	13
9	16	e11	e7.6	e4.7	e3.5	e3.0	7.9	43	29	101	30	14
10	17	e12	e7.3	e4.7	e3.3	e3.4	7.2	54	29	217	31	13
11	19	e9.6	e6.4	e4.6	e3.5	e3.5	7.0	68	29	139	31	12
12	21	e12	e5.4	e4.6	e3.7	e3.8	7.6	52	30	72	35	14
13	25	e11	e5.7	e4.5	e3.8	e4.3	7.5	45	31	38	32	15
14	29	e10	e5.7	e4.1	e3.7	e4.8	7.2	48	32	34	32	12
15	27	e10	e5.3	e4.3	e3.7	5.3	9.4	39	31	33	37	12
16	28	e11	e5.2	e4.7	e3.6	5.6	9.0	37	28	31	32	12
17	28	e11	e5.3	e4.3	e3.5	5.3	8.0	44	29	30	25	11
18	28	e11	e5.6	e4.3	e3.4	5.5	7.5	51	29	29	37	11
19	26	e10	e5.4	e4.3	e3.3	5.7	8.9	54	28	29	29	9.3
20	24	e10	e5.0	e4.2	e3.3	5.5	6.6	63	32	31	26	8.4
21	23	e10	e5.3	e3.8	e3.4	5.6	6.9	76	38	34	27	8.1
22	21	e9.9	e4.9	e4.0	e3.5	5.2	9.4	62	44	35	27	7.7
23	19	e9.7	e4.7	e4.7	e3.6	5.1	13	47	47	35	22	7.7
24	e18	e9.7	e4.6	e4.4	e3.7	5.6	19	45	37	32	19	7.5
25	e18	e9.7	e4.5	e4.4	e3.6	6.7	19	41	35	22	24	7.0
26	e17	e10	e4.3	e4.2	e3.3	7.4	15	50	49	21	33	6.4
27	e16	e9.9	e4.4	e4.0	e2.9	7.0	15	56	177	24	37	6.2
28	e15	e8.7	e4.9	e3.9	e2.6	6.2	14	64	309	40	30	6.0
29	e15	e9.2	e5.2	e3.8	---	6.1	18	72	311	38	24	6.1
30	e13	e8.6	e5.0	e3.8	---	11	24	70	328	31	20	6.7
31	e13	---	e4.8	e3.6	---	7.5	---	59	---	34	18	---
TOTAL	618	321.0	185.9	134.5	98.9	152.4	302.4	1593	2143	2421	944	370.1
MEAN	19.9	10.7	6.00	4.34	3.53	4.92	10.1	51.4	71.4	78.1	30.5	12.3
MAX	29	14	8.6	5.1	3.9	11	24	76	328	322	50	29
MIN	13	8.6	4.3	3.6	2.6	2.7	6.3	30	28	21	18	6.0
AC-FT	1230	637	369	267	196	302	600	3160	4250	4800	1870	734

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1998, BY WATER YEAR (WY)

MEAN	14.1	9.95	7.45	6.05	5.71	6.65	14.6	65.9	100	64.2	33.1	16.8
MAX	31.4	15.3	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	38.0	24.4	12.9	8.36
(WY)	1990	1990	1976	1976	1976	1976	1983	1977	1992	1988	1977	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1973 - 1998	
ANNUAL TOTAL	13482.5		9284.2			
ANNUAL MEAN	36.9		25.4		a28.8	
HIGHEST ANNUAL MEAN					79.2	1984
LOWEST ANNUAL MEAN					15.3	1977
HIGHEST DAILY MEAN	341	Jun 4	328	Jun 30	b602	Jun 30 1984
LOWEST DAILY MEAN	e4.3	Dec 26	e2.6	Feb 28	1.8	Feb 5 1976
ANNUAL SEVEN-DAY MINIMUM	4.6	Dec 22	2.9	Feb 27	1.9	Jan 31 1976
INSTANTANEOUS PEAK FLOW			513	Jun 30	c930	Jun 30 1984
INSTANTANEOUS PEAK STAGE			5.40	Jun 30	d6.21	Jun 30 1984
ANNUAL RUNOFF (AC-FT)	26740		18420		20890	
10 PERCENT EXCEEDS	96		50		65	
50 PERCENT EXCEEDS	17		12		12	
90 PERCENT EXCEEDS	6.3		3.8		4.5	

e-Estimated.
a-Average discharge for 7 years (water years 1948-54), 63.4 ft^3/s, 45,930 acre-ft/yr, prior to diversion through Homestake Tunnel.
b-Maximum daily discharge for period of record, 755 ft^3/s, Jun 21, 1951.
c-Maximum discharge and stage for period of record, 1080 ft^3/s, Jun 13, 1953, gage height, 6.84 ft, site and datum then in use, from rating curve extended above 700 ft^3/s.
d-Maximum gage height for statistical period, 6.31 ft, Apr 5, 1978, backwater from ice.

09064500 HOMESTAKE CREEK NEAR RED CLIFF, CO

LOCATION.--Lat 39°28'24", long 106°22'02", in NE¼NE¼ sec.6, T.7 S., R.80 W., Eagle County, Hydrologic Unit 14010003, on right bank at downstream side of Forest Service road bridge, 2.4 mi south of Red Cliff, and 3.0 mi upstream from mouth.

DRAINAGE AREA.--58.2 mi^2.

PERIOD OF RECORD.--October 1910 to September 1918, May 1944 to current year. Published as "at Redcliff" October 1910 to September 1916. Statistical summary computed for 1967 to current year.

REVISED RECORDS.--WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 8,783 ft above sea level (river-profile survey). See WSP 1713 or 1733 for history of changes prior to May 8, 1961.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Homestake Lake (capacity, 44,360 acre-ft) since June 7, 1966. Transmountain diversions upstream from station through Homestake Tunnel (see elsewhere in this report) 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	e21	e13	e11	e8.9	e7.8	e25	83	113	291	84	51
2	14	e20	e14	e12	e8.8	e8.8	e24	85	131	227	69	63
3	25	e20	e13	e12	e9.6	e9.6	e23	105	e110	194	53	48
4	27	e20	e13	e11	e9.5	e9.4	e23	127	e96	157	56	40
5	20	e19	e13	e11	e9.3	e9.3	e24	139	e76	138	51	35
6	16	e19	e14	e10	e9.1	e9.6	e23	113	e64	135	44	32
7	13	e18	e15	e9.0	e9.4	e9.3	e23	104	e52	129	41	30
8	18	e18	e16	e10	e9.3	e9.2	e22	101	e46	96	40	27
9	16	e19	e14	e9.6	e9.6	e9.0	e21	107	e45	99	39	28
10	17	e19	e14	e11	e9.3	e9.8	e22	116	e45	198	45	26
11	19	e20	e12	e12	e8.6	e11	e24	139	e47	152	43	22
12	23	e20	e11	e11	e9.4	e12	e28	123	e48	86	52	23
13	26	e18	e12	e12	e9.3	e13	e29	109	e49	42	45	36
14	e33	e17	e13	e10	e10	e14	e29	122	e48	31	42	34
15	e32	e16	e13	e9.4	e9.8	e15	e27	105	e48	31	51	30
16	e31	e17	e13	e11	e9.6	e16	e26	92	e44	32	46	30
17	e30	e18	e12	e11	e9.4	e16	e26	100	e44	32	38	29
18	e29	e17	e13	e9.8	e9.6	e14	e25	112	e45	31	50	25
19	e28	e17	e12	e9.8	e9.3	e13	e24	122	e49	30	50	20
20	e28	e16	e12	e10	e9.2	e13	e25	129	e53	29	39	17
21	e27	e16	e13	e9.6	e9.7	e13	e28	150	e58	33	42	16
22	e26	e16	e13	e9.0	e9.9	e15	e32	137	e64	40	51	14
23	e27	e15	e12	e10	e10	e17	48	103	e60	43	39	13
24	e28	e15	e11	e10	e10	e26	70	99	66	61	33	13
25	e25	e16	e10	e11	e11	e39	71	88	56	45	36	12
26	e25	e17	e10	e9.8	e9.8	e43	55	99	65	44	70	7.9
27	e25	e18	e11	e9.6	e8.6	e40	45	109	156	33	68	6.4
28	e24	e16	e12	e9.2	e8.0	e35	47	121	272	48	60	6.4
29	e24	e15	e13	e9.0	---	e32	56	130	280	58	47	6.3
30	e23	e14	e12	e9.4	---	e27	70	136	279	46	39	7.8
31	e22	---	e11	e9.0	---	e25	---	116	---	44	34	---
TOTAL	737	527	390	318.2	264.0	540.8	1015	3521	2609	2655	1497	748.8
MEAN	23.8	17.6	12.6	10.3	9.43	17.4	33.8	114	87.0	85.6	48.3	25.0
MAX	33	21	16	12	11	43	71	150	280	291	84	63
MIN	13	14	10	9.0	8.0	7.8	21	83	44	29	33	6.3
AC-FT	1460	1050	774	631	524	1070	2010	6980	5170	5270	2970	1490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1998, BY WATER YEAR (WY)

MEAN	19.3	13.6	10.5	8.68	8.54	11.0	35.9	127	149	76.5	38.2	22.6
MAX	45.1	31.0	19.7	16.7	16.7	22.5	73.1	358	439	313	136	42.3
(WY)	1985	1985	1985	1996	1996	1989	1986	1984	1984	1984	1983	1984
MIN	8.59	5.30	4.66	3.19	2.93	3.60	10.8	53.6	55.2	27.8	8.54	8.29
(WY)	1976	1967	1989	1987	1987	1981	1983	1990	1992	1967	1990	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1967 - 1998	
ANNUAL TOTAL	23648.5		14822.8			
ANNUAL MEAN	64.8		40.6		a43.5	
HIGHEST ANNUAL MEAN					116	1984
LOWEST ANNUAL MEAN					20.3	1977
HIGHEST DAILY MEAN	417	Jun 2	291	Jul 1	831	May 25 1984
LOWEST DAILY MEAN	e8.6	Jan 7	6.3	Sep 29	b1.8	Sep 2 1990
ANNUAL SEVEN-DAY MINIMUM	10	Feb 28	8.5	Sep 24	2.1	Aug 29 1990
INSTANTANEOUS PEAK FLOW			337	Jul 1	c943	May 24 1984
INSTANTANEOUS PEAK STAGE			3.01	Jul 1	3.96	May 24 1984
ANNUAL RUNOFF (AC-FT)	46910		29400		31500	
10 PERCENT EXCEEDS	217		105		117	
50 PERCENT EXCEEDS	22		25		17	
90 PERCENT EXCEEDS	11		9.6		6.5	

e-Estimated.
a-Average discharge for 30 years (water years 1911-18, 1945-66), 86.6 ft^3/s; 62,740 acre-ft/yr, prior to diversion through Homestake tunnel.
b-Minimum observed for period of record, 0.60 ft^3/s, Jan 25, 1915 (discharge measurement).
c-Maximum discharge and stage for period of record, 1300 ft^3/s, Jun 24, 1918, gage height, 6.20 ft, site and datum then in use.

09064600 EAGLE RIVER NEAR MINTURN, CO

LOCATION.--Lat 39°33'14", long 106°24'07", in SW¼SE¼ 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 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	55	e45	e39	e32	e20	43	160	441	481	197	83
2	61	52	e46	e41	e32	e22	42	169	478	399	170	95
3	70	47	e46	e36	e33	e21	41	200	501	358	132	78
4	74	52	e36	e35	e32	e20	42	242	470	317	140	67
5	66	49	e41	e32	e31	e21	43	268	416	287	130	60
6	63	49	e43	e32	e31	e21	44	240	361	280	113	55
7	60	49	e44	e29	e30	e19	41	218	318	273	104	53
8	68	49	e42	e31	e29	e20	40	200	297	247	99	50
9	66	50	e41	e31	e28	e18	e40	217	275	243	94	51
10	66	47	e40	e32	e28	e18	e42	231	268	348	100	50
11	67	49	e35	e34	e29	e21	e44	278	257	310	98	48
12	77	49	e28	e32	e30	e24	e46	268	247	227	103	49
13	73	e38	e28	e31	e32	e27	e48	265	259	174	94	60
14	75	e37	e30	e31	e31	e32	e50	305	258	153	88	54
15	81	e35	e33	e33	e31	e36	52	275	273	143	89	48
16	82	e44	e37	e32	e32	e40	50	245	254	132	86	50
17	80	e48	e37	e33	e34	e41	48	264	241	123	82	49
18	80	e49	e38	e32	e33	e40	47	295	237	116	87	46
19	77	e49	e38	e32	e33	e38	45	326	229	111	90	44
20	74	e49	e36	e31	e32	e39	48	357	238	107	80	41
21	72	e48	e41	e27	e34	e42	52	403	252	107	80	39
22	69	e46	e38	e28	e34	e44	63	397	258	121	87	38
23	66	e45	e37	e33	e32	e51	87	334	279	141	76	38
24	67	e46	e33	e34	e33	e53	118	317	266	194	68	38
25	66	e47	e31	e32	e30	e54	127	292	249	178	72	36
26	66	e48	e29	e32	e26	54	109	315	257	160	107	34
27	63	e49	e27	e31	e23	49	96	340	322	127	95	33
28	63	e47	e31	e30	e19	45	101	379	445	135	90	32
29	59	e45	e35	e32	---	41	113	419	459	156	76	33
30	60	e45	e35	e33	---	40	137	453	461	134	68	34
31	59	---	e40	e32	---	42	---	436	---	121	63	---
TOTAL	2133	1412	1141	1003	854	1053	1899	9108	9566	6403	3058	1486
MEAN	68.8	47.1	36.8	32.4	30.5	34.0	63.3	294	319	207	98.6	49.5
MAX	82	55	46	41	34	54	137	453	501	481	197	95
MIN	59	35	27	27	19	18	40	160	229	107	63	32
AC-FT	4230	2800	2260	1990	1690	2090	3770	18070	18970	12700	6070	2950

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1998, BY WATER YEAR (WY)

MEAN	46.0	39.0	31.0	27.7	26.9	33.8	88.6	409	561	221	89.9	55.5
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	23.5	50.4	219	263	94.8	49.8	40.6
(WY)	1990	1990	1990	1990	1990	1991	1991	1990	1992	1994	1990	1994

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1990 - 1998	
ANNUAL TOTAL	70369		39116			
ANNUAL MEAN	193		107		136	
HIGHEST ANNUAL MEAN					197	1995
LOWEST ANNUAL MEAN					87.9	1990
HIGHEST DAILY MEAN	1450	Jun 5	501	Jun 3	1540	Jun 18 1995
LOWEST DAILY MEAN	e21	Jan 6	e,a18	Mar 9	11	Dec 9 1994
ANNUAL SEVEN-DAY MINIMUM	24	Jan 11	20	Mar 4	16	Jan 4 1990
INSTANTANEOUS PEAK FLOW			537	Jun 3	1810	Jun 18 1995
INSTANTANEOUS PEAK STAGE			4.73	Jun 3	6.75	Jun 18 1995
ANNUAL RUNOFF (AC-FT)	139600		77890		98580	
10 PERCENT EXCEEDS	703		278		379	
50 PERCENT EXCEEDS	68		52		48	
90 PERCENT EXCEEDS	27		31		24	

e-Estimated.
a-Also occurred Mar 10.

09065100 CROSS CREEK NEAR MINTURN, CO

LOCATION.--Lat 39°34'05", long 106°24'43", in SW¼SW¼ sec.36, T.5 S., R.81 W., Eagle County, Hydrologic Unit 14010003, on right bank 0.4 mi upstream from mouth, and 1.5 mi southeast of Minturn.

DRAINAGE AREA.--34.2 mi^2.

PERIOD OF RECORD.--May 1956 to September 1963, October 1967 to current year.

REVISED RECORDS.--WDR CO-81-2: 1980 (M). WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,992 ft above sea level, from topographic map. Prior to July 18, 1956, nonrecording gage at site 0.3 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Bolts ditch exports water upstream from station to tailings ponds and recreation lake along Eagle River. Diversion 0.5 mi upstream from station for water supply of school and for municipal supply of Minturn. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	e11	e6.9	e5.3	e4.0	e3.1	e13	40	202	247	161	42
2	27	e10	e6.9	e5.3	e4.3	e3.3	e13	43	235	207	137	61
3	38	e9.7	e6.1	e5.2	e4.3	e3.3	e12	53	244	191	90	46
4	41	e9.0	e6.4	e5.1	e4.1	e3.1	e13	65	204	174	88	36
5	32	e9.0	e6.8	e4.8	e4.0	e3.1	e13	70	133	163	80	31
6	27	e8.9	e7.0	e4.1	e4.0	e3.1	e12	68	97	182	67	27
7	24	e8.7	e7.0	e4.6	e3.9	e2.9	e12	60	80	164	58	25
8	26	e8.7	e6.5	e4.4	e4.1	e2.9	e12	52	76	157	52	23
9	25	e8.8	e6.2	e4.7	e3.8	e3.0	e13	58	75	193	48	25
10	26	e8.9	e5.7	e4.9	e3.6	e3.2	e14	65	92	187	49	23
11	26	e8.8	e4.9	e4.9	e3.9	e3.6	e16	83	99	198	48	21
12	28	e8.6	e5.2	e4.7	e3.8	e3.7	e14	78	102	153	45	21
13	25	e8.0	e5.5	e4.3	e4.1	e3.9	e13	87	133	124	38	29
14	28	e7.2	e5.6	e4.0	e4.0	e5.0	11	99	101	104	34	25
15	26	e7.5	e5.6	e4.6	e4.0	e5.2	11	82	90	94	32	21
16	26	e8.1	e5.5	e5.0	e3.9	e6.3	7.8	70	83	85	30	21
17	25	e7.8	e5.8	e4.7	e3.7	e6.1	9.3	80	84	83	27	20
18	25	e7.8	e6.0	e4.6	e3.6	e6.2	6.9	97	79	78	37	18
19	23	e7.5	e5.5	e4.5	e3.7	e5.8	8.1	114	77	75	36	16
20	22	e7.3	e5.4	e4.3	e3.7	e5.6	6.6	137	124	70	34	14
21	20	e7.2	e5.7	e4.1	e3.6	e5.8	7.9	167	164	65	35	13
22	19	e7.0	e5.1	e4.7	e3.8	e6.9	11	147	180	77	35	12
23	18	e7.0	e5.0	e4.7	e3.9	e10	19	104	210	100	30	11
24	18	e7.1	e4.7	e4.8	e4.0	e17	29	106	195	178	27	12
25	19	e7.4	e4.5	e4.7	e3.8	e18	34	95	171	169	27	11
26	e15	e8.4	e4.5	e4.5	e3.7	e19	26	125	211	148	66	9.5
27	e13	e7.4	e4.9	e4.2	e3.0	e16	23	149	229	104	55	9.1
28	e13	e7.1	e5.4	e4.2	e2.8	e14	21	185	238	93	48	8.8
29	e12	e6.9	e5.4	e4.1	---	e14	25	214	240	141	37	8.1
30	e12	e6.9	e5.2	e4.1	---	e13	33	229	245	108	31	9.1
31	e12	---	e5.1	e4.0	---	e13	---	200	---	89	28	---
TOTAL	721	243.7	176.0	142.1	107.1	229.1	459.6	3222	4493	4201	1610	648.6
MEAN	23.3	8.12	5.68	4.58	3.83	7.39	15.3	104	150	136	51.9	21.6
MAX	41	11	7.0	5.3	4.3	19	34	229	245	247	161	61
MIN	12	6.9	4.5	4.0	2.8	2.9	6.6	40	75	65	27	8.1
AC-FT	1430	483	349	282	212	454	912	6390	8910	8330	3190	1290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1998, BY WATER YEAR (WY)

MEAN	13.5	7.08	4.28	3.10	2.95	4.00	21.2	121	253	135	44.4	22.2
MAX	49.5	15.6	9.81	8.85	8.84	11.4	57.6	221	360	355	122	65.0
(WY)	1962	1962	1997	1997	1997	1997	1962	1970	1980	1957	1983	1961
MIN	3.39	1.99	.99	.17	.48	1.09	6.35	57.8	134	38.5	14.4	6.68
(WY)	1957	1957	1963	1963	1977	1977	1973	1995	1977	1977	1977	1974

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1957 - 1998	
ANNUAL TOTAL	26419.8		16253.2			
ANNUAL MEAN	72.4		44.5		52.8	
HIGHEST ANNUAL MEAN					83.2	1984
LOWEST ANNUAL MEAN					25.4	1977
HIGHEST DAILY MEAN	502	Jun 20	247	Jul 1	618	Jun 30 1957
LOWEST DAILY MEAN	e,a4.5	Dec 25	e2.8	Feb 28	b.10	Dec 27 1962
ANNUAL SEVEN-DAY MINIMUM	4.9	Dec 22	3.0	Mar 4	.13	Dec 26 1962
INSTANTANEOUS PEAK FLOW			352	Jul 1	754	Jun 30 1957
INSTANTANEOUS PEAK STAGE			4.42	Jul 1	c5.45	Jun 30 1957
ANNUAL RUNOFF (AC-FT)	52400		32240		38270	
10 PERCENT EXCEEDS	238		147		178	
50 PERCENT EXCEEDS	25		14		11	
90 PERCENT EXCEEDS	7.1		4.0		2.2	

e-Estimated.
a-Also occurred Dec 26.
b-Also occurred Dec 28-31, 1962, Jan 6-8, 11-15, 1963.
c-Maximum gage height, 6.14 ft, Aug 6, 1983.

09065500 GORE CREEK AT UPPER STATION, NEAR MINTURN, CO

LOCATION.--Lat 39°37'33", long 106°16'39", in NE¼NW¼ sec.18, T.5 S., R.79 W., Eagle County, Hydrologic Unit 14010003, on right bank 20 ft downstream from bridge pier on Interstate 70, 0.2 mi upstream from Black Gore Creek, 4.4 mi east of Vail, and 8.4 mi northeast of Minturn.

DRAINAGE AREA.--14.4 mi^2.

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 8,600 ft above sea level, from topographic map. Oct. 1, 1947 to Sept. 30, 1956, Oct. 1, 1963 to Sept. 30, 1980, at various sites about 1200 ft upstream at different datums. See WDR CO-80-2, for history of changes prior to Oct. 1, 1980. Oct. 1, 1980 to Apr. 21, 1992, gage at site 10 ft upstream and at datum 2.0 ft higher.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	6.0	e3.7	e3.1	e2.4	e1.5	3.7	19	154	131	41	14
2	9.1	6.2	e3.6	e2.9	e2.5	e1.6	3.8	19	178	122	35	14
3	13	e6.4	e3.5	e3.1	e2.5	e1.7	3.6	25	174	110	32	11
4	12	e5.8	e3.5	e3.1	e2.3	e1.7	4.0	35	139	102	37	9.6
5	10	e5.4	e3.5	e3.1	e2.3	e1.7	4.4	38	100	97	32	8.6
6	9.3	e5.2	e3.5	e2.6	e2.3	e1.7	4.4	39	76	99	27	8.1
7	8.7	e5.0	e3.5	e2.6	e2.3	e1.7	4.2	29	69	88	24	7.6
8	10	e5.0	e3.5	e2.4	e2.3	e1.7	4.1	24	68	83	21	7.2
9	9.7	e5.0	e3.5	e2.4	e2.2	e1.7	4.0	25	67	83	20	7.1
10	10	e5.2	e3.5	e2.4	e2.2	e1.7	4.1	32	71	91	23	6.8
11	9.8	e5.4	e3.5	e2.4	e2.2	e1.7	5.1	43	71	94	21	6.4
12	11	e5.0	e3.5	e2.1	e2.2	e1.8	6.7	37	81	77	19	7.4
13	11	e4.7	e3.7	e2.1	e2.2	e1.9	6.2	50	99	68	17	8.4
14	11	e4.7	e3.7	e2.1	e2.2	e2.0	5.8	59	81	60	16	7.7
15	11	e4.7	e3.7	e2.1	e2.2	e2.1	5.1	45	69	52	15	6.9
16	11	e4.7	e3.7	e2.4	e2.2	e2.1	4.8	40	70	47	14	9.9
17	12	e4.7	e3.7	e2.4	e2.1	e2.4	4.4	55	84	46	14	10
18	12	e4.7	e3.7	e2.4	e2.0	e2.3	4.2	74	75	42	14	8.0
19	11	e4.7	e3.0	e2.4	e2.0	e2.1	4.2	87	79	39	13	7.2
20	11	e4.7	e3.0	e2.4	e2.0	e2.2	4.2	100	114	35	12	6.6
21	10	e5.0	e3.0	e2.4	e2.0	e2.5	4.2	113	130	33	12	6.1
22	9.2	e5.8	e3.0	e2.4	e2.0	e3.0	5.5	101	145	31	12	5.7
23	8.7	e5.0	e3.0	e2.4	e2.0	e4.0	9.9	73	149	33	11	5.7
24	8.0	e4.6	e3.0	e2.4	e2.0	e4.5	15	69	131	30	11	5.4
25	6.8	e4.6	e3.2	e2.4	e2.0	e5.0	15	65	127	39	11	4.9
26	8.1	e4.5	e3.2	e2.4	e1.9	e5.2	13	87	143	42	11	4.6
27	9.5	e4.5	e3.2	e2.4	e1.7	e5.0	11	110	150	32	12	4.4
28	8.9	e4.8	e3.4	e2.4	e1.6	e4.5	13	132	148	40	10	4.2
29	8.1	e5.2	e3.4	e2.4	---	e3.7	15	146	146	50	9.0	4.2
30	7.0	e4.5	e3.4	e2.4	---	e3.7	18	158	141	39	8.1	4.3
31	6.5	---	e3.4	e2.3	---	e3.7	---	147	---	35	9.7	---
TOTAL	302.9	151.7	105.7	76.8	59.8	82.1	210.6	2076	3329	1970	563.8	222.0
MEAN	9.77	5.06	3.41	2.48	2.14	2.65	7.02	67.0	111	63.5	18.2	7.40
MAX	13	6.4	3.7	3.1	2.5	5.2	18	158	178	131	41	14
MIN	6.5	4.5	3.0	2.1	1.6	1.5	3.6	19	67	30	8.1	4.2
AC-FT	601	301	210	152	119	163	418	4120	6600	3910	1120	440

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1998, BY WATER YEAR (WY)

MEAN	7.51	4.99	3.70	3.19	3.05	3.68	11.6	68.5	155	71.3	20.8	9.60
MAX	19.8	15.3	9.23	9.75	10.6	12.6	22.5	121	245	198	83.7	22.9
(WY)	1985	1985	1986	1986	1986	1985	1969	1974	1978	1983	1983	1984
MIN	3.12	2.50	1.94	1.86	1.55	1.57	3.81	23.4	59.2	17.2	7.37	3.52
(WY)	1976	1976	1964	1964	1977	1977	1973	1968	1954	1977	1954	1956

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1948 - 1998	
ANNUAL TOTAL	14049.0		9150.4			
ANNUAL MEAN	38.5		25.1		30.3	
HIGHEST ANNUAL MEAN					48.3	1983
LOWEST ANNUAL MEAN					17.4	1954
HIGHEST DAILY MEAN	319	Jun 20	178	Jun 2	455	Jun 25 1983
LOWEST DAILY MEAN	e,a3.0	Feb 26	e1.5	Mar 1	1.2	Mar 5 1977
ANNUAL SEVEN-DAY MINIMUM	3.0	Dec 19	1.6	Feb 27	1.3	Feb 27 1977
INSTANTANEOUS PEAK FLOW			255	Jun 2	b662	Jun 24 1983
INSTANTANEOUS PEAK STAGE			3.38	Jun 2	c2.60	Jun 24 1983
ANNUAL RUNOFF (AC-FT)	27870		18150		21930	
10 PERCENT EXCEEDS	137		85		101	
50 PERCENT EXCEEDS	10		6.4		7.0	
90 PERCENT EXCEEDS	3.5		2.2		2.5	

e-Estimated.
a-Also occurred Dec 19-24.
b-From rating curve extended above 140 ft^3/s.
c-Maximum gage height, 6.65 ft, Jun 18, 1951, datum then in use.

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 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	e2.9	e3.1	e2.9	e3.1	e2.4	3.9	16	96	34	14	6.3
2	3.3	e2.8	e2.8	e3.1	e3.2	e2.5	3.9	16	103	31	11	5.4
3	4.5	e2.8	e2.8	e3.1	e3.3	e2.7	3.9	19	104	30	10	4.7
4	3.8	e2.8	e2.8	e3.1	e3.3	e2.8	4.2	21	91	28	11	4.2
5	3.5	e2.8	e2.8	e3.0	e3.2	e2.8	4.6	19	77	26	9.9	3.8
6	3.3	e2.8	e2.8	e2.9	e3.2	e2.8	4.7	18	65	25	8.5	3.5
7	3.2	e2.8	e2.8	e2.9	e3.2	e2.8	4.7	16	59	24	7.7	3.4
8	4.0	e2.8	e2.8	e2.9	e3.1	e2.8	4.7	15	55	23	7.2	3.3
9	3.9	e2.8	e2.8	e2.7	e3.1	e2.8	4.5	16	52	22	6.8	3.4
10	3.8	e3.2	e2.8	e2.7	e3.0	e3.0	4.5	20	50	35	7.5	3.3
11	3.8	e3.3	e2.8	e2.7	e3.0	e3.3	5.3	22	47	26	7.3	3.2
12	4.7	e3.0	e3.0	e2.7	e3.0	e3.4	5.2	22	46	21	6.7	4.5
13	4.7	e2.8	e3.1	e2.5	e3.0	e3.5	4.8	25	47	19	6.1	4.2
14	5.2	e2.8	e3.1	e2.5	e3.0	e3.8	4.8	25	48	17	5.8	3.8
15	4.7	e2.8	e3.1	e2.5	e3.0	e3.9	4.7	22	46	16	5.6	4.5
16	4.6	e2.8	e3.1	e2.7	e3.0	e4.0	4.7	23	44	15	5.2	7.1
17	4.5	e2.8	e3.1	e2.7	e3.0	e4.0	4.7	26	44	14	5.3	4.6
18	4.2	e2.8	e3.1	e2.7	e2.9	e3.8	4.5	30	45	13	5.7	3.9
19	4.1	e2.8	e2.9	e2.7	e2.9	e3.7	4.5	33	42	12	5.2	3.6
20	4.0	e2.8	e2.8	e2.7	e2.8	e3.8	4.2	38	43	11	4.9	3.4
21	3.9	e2.7	e2.8	e2.7	e2.8	e4.0	4.3	48	45	11	5.3	3.2
22	3.8	e3.0	e2.8	e2.7	e2.8	e4.5	5.4	58	45	11	5.4	3.1
23	3.7	e3.4	e2.8	e2.7	e2.8	e4.8	7.6	47	46	12	4.8	3.2
24	3.4	e3.6	e2.8	e2.7	e2.8	e5.4	9.6	44	44	12	5.0	3.1
25	3.5	e3.1	e3.0	e2.7	e2.8	e6.0	9.5	41	43	13	6.0	3.0
26	4.1	e3.2	e3.0	e2.9	e2.7	e5.8	7.9	49	42	12	6.1	2.9
27	4.4	e3.3	e3.0	e2.9	e2.6	e5.4	8.0	60	41	10	5.6	2.9
28	4.3	e3.2	e3.1	e3.1	e2.5	e5.0	9.5	73	40	11	4.7	2.8
29	4.1	e3.4	e3.2	e3.3	---	e4.7	11	84	39	12	4.4	2.8
30	3.8	e2.9	e3.2	e3.3	---	e4.4	14	90	36	10	4.0	2.9
31	e3.3	---	e3.2	e3.2	---	e4.5	---	91	---	9.8	5.2	---
TOTAL	123.4	89.0	91.3	87.9	83.1	119.1	177.8	1127	1625	565.8	207.9	114.0
MEAN	3.98	2.97	2.95	2.84	2.97	3.84	5.93	36.4	54.2	18.3	6.71	3.80
MAX	5.2	3.6	3.2	3.3	3.3	6.0	14	91	104	35	14	7.1
MIN	3.2	2.7	2.8	2.5	2.5	2.4	3.9	15	36	9.8	4.0	2.8
AC-FT	245	177	181	174	165	236	353	2240	3220	1120	412	226

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1998, BY WATER YEAR (WY)

MEAN	3.89	3.42	2.85	2.49	2.39	2.97	7.51	55.3	91.9	22.5	7.27	4.34
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	.91	1.40	2.86	15.0	21.8	6.09	2.56	2.43
(WY)	1951	1964	1970	1979	1979	1971	1973	1995	1954	1954	1954	1956

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1948 - 1998	
ANNUAL TOTAL	8529.0		4411.3			
ANNUAL MEAN	23.4		12.1		17.2	
HIGHEST ANNUAL MEAN					30.3	1984
LOWEST ANNUAL MEAN					8.16	1954
HIGHEST DAILY MEAN	244	Jun 4	104	Jun 3	274	Jun 17 1995
LOWEST DAILY MEAN	e,a2.7	Feb 26	e2.4	Mar 1	.90	Feb 22 1968
ANNUAL SEVEN-DAY MINIMUM	2.8	Feb 25	2.6	Feb 25	.90	Feb 4 1979
INSTANTANEOUS PEAK FLOW			232	Jul 10	370	Jun 17 1995
INSTANTANEOUS PEAK STAGE			4.80	Jul 10	b5.06	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	16920		8750		12490	
10 PERCENT EXCEEDS	87		41		54	
50 PERCENT EXCEEDS	4.7		4.0		3.9	
90 PERCENT EXCEEDS	2.8		2.8		2.0	

e-Estimated.
a-Also occurred Feb 27 and Nov 21.
b-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 N½ 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 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	e3.0	e2.8	e1.2	e.82	e.50	e1.5	11	55	41	18	5.5
2	3.9	e3.1	e2.5	e1.4	e.82	e.56	1.3	10	66	37	14	5.2
3	4.9	e3.1	e2.3	e1.4	e.84	e.60	1.3	12	65	32	12	4.3
4	4.1	e3.0	e2.0	e1.3	e.88	e.60	1.3	16	48	28	14	4.0
5	3.7	e3.0	e1.9	e1.2	e.90	e.60	1.4	18	28	28	13	3.7
6	3.4	e2.9	e1.9	e1.2	e.90	e.60	1.5	17	21	28	11	3.6
7	3.2	e2.9	e1.9	e1.1	e.88	e.60	1.4	13	18	25	10	3.3
8	3.4	e2.8	e1.9	e1.1	e.82	e.60	1.4	11	17	24	8.8	3.2
9	3.3	e2.8	e1.9	e1.1	e.78	e.60	1.3	11	17	22	8.6	3.2
10	3.3	e3.1	e1.9	e1.0	e.76	e.63	1.3	13	20	21	10	2.9
11	3.2	e3.4	e2.0	e.90	e.74	e.64	1.6	17	20	22	8.7	2.7
12	3.1	e3.7	e2.1	e.80	e.74	e.80	2.0	17	22	21	7.5	3.1
13	3.2	e3.6	e2.1	e.80	e.74	e.90	2.0	20	28	19	6.9	3.0
14	3.4	e3.6	e2.1	e.80	e.74	e1.0	2.1	23	24	17	6.5	2.6
15	3.7	e3.3	e2.1	e.82	e.74	e1.1	2.0	19	19	15	6.0	2.3
16	4.0	e3.1	e2.1	e.82	e.68	e1.2	1.8	17	19	13	5.7	3.0
17	4.5	e2.8	e2.1	e.82	e.66	e1.2	1.7	20	22	14	5.8	2.9
18	4.7	e2.6	e1.9	e.82	e.64	e1.1	1.6	28	20	13	5.8	2.4
19	4.5	e2.6	e1.7	e.82	e.64	e1.1	1.5	32	23	12	5.4	2.2
20	4.2	e2.7	e1.5	e.82	e.64	e1.2	1.5	37	36	11	5.1	2.1
21	3.9	e3.0	e1.5	e.82	e.64	e1.4	1.5	43	41	11	5.0	1.9
22	3.6	e3.2	e1.5	e.82	e.64	e1.6	1.9	36	48	11	4.7	1.8
23	3.4	e3.4	e1.5	e.82	e.64	e1.8	3.3	24	50	11	4.6	1.8
24	3.1	e3.4	e1.5	e.82	e.64	e2.1	6.1	21	41	11	4.7	1.8
25	2.4	e3.2	e1.5	e.82	e.60	e2.2	7.1	21	41	14	4.8	1.7
26	3.4	e2.8	e1.5	e.86	e.56	e2.2	5.8	30	47	13	4.4	1.6
27	3.5	e2.6	e1.7	e.88	e.54	e2.2	4.9	39	50	11	4.8	1.6
28	3.5	e3.0	e1.8	e.88	e.54	e2.0	5.7	52	49	13	4.1	1.5
29	3.4	e3.4	e1.7	e.88	---	e1.7	7.6	55	48	18	3.7	1.5
30	e3.0	e3.2	e1.5	e.86	---	e1.6	9.5	58	45	14	3.5	1.5
31	e2.9	---	e1.4	e.83	---	e1.6	---	52	---	13	4.1	---
TOTAL	111.9	92.3	57.8	29.51	20.16	36.53	84.9	793	1048	583	231.2	81.9
MEAN	3.61	3.08	1.86	.95	.72	1.18	2.83	25.6	34.9	18.8	7.46	2.73
MAX	4.9	3.7	2.8	1.4	.90	2.2	9.5	58	66	41	18	5.5
MIN	2.4	2.6	1.4	.80	.54	.50	1.3	10	17	11	3.5	1.5
AC-FT	222	183	115	59	40	72	168	1570	2080	1160	459	162

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1998, BY WATER YEAR (WY)

MEAN	2.80	1.72	1.05	.85	.83	.99	3.85	24.1	49.7	23.0	7.53	3.65
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	.84	.63	.45	.30	.32	.86	8.09	17.7	5.61	3.27	1.12
(WY)	1964	1980	1977	1967	1964	1981	1964	1995	1966	1977	1994	1975

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1964 - 1998	
ANNUAL TOTAL	4091.74		3170.20			
ANNUAL MEAN	11.2		8.69		10.0	
HIGHEST ANNUAL MEAN					18.6	1984
LOWEST ANNUAL MEAN					5.15	1966
HIGHEST DAILY MEAN	94	Jun 20	66	Jun 2	170	Jun 26 1983
LOWEST DAILY MEAN	e.66	Feb 26	e.50	Mar 1	a.10	Feb 8 1967
ANNUAL SEVEN-DAY MINIMUM	.70	Feb 24	.56	Feb 25	.20	Mar 4 1981
INSTANTANEOUS PEAK FLOW			90	Jun 2	b338	Jun 8 1985
INSTANTANEOUS PEAK STAGE			3.45	Jun 2	c4.10	Jun 8 1985
ANNUAL RUNOFF (AC-FT)	8120		6290		7260	
10 PERCENT EXCEEDS	37		24		33	
50 PERCENT EXCEEDS	3.4		3.1		2.4	
90 PERCENT EXCEEDS	.80		.82		.66	

e-Estimated.
a-Also occurred Jan 30, 1970.
b-From rating curve extended above 82 ft^3/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 SW¼SW¼ sec.1, T.5 S., R.80 W., Eagle County, Hydrologic Unit 14010003, on left bank, 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 mi^2.

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 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	e5.0	e1.9	e1.5	e1.2	e.88	2.1	9.1	35	54	30	5.3
2	6.1	e5.0	e1.8	e1.3	e1.2	e.94	1.9	9.4	55	48	20	5.5
3	7.2	e4.9	e1.7	e1.3	e1.2	e1.0	1.9	12	66	45	17	4.8
4	6.5	e4.7	e1.7	e1.4	e1.2	e1.0	1.9	17	66	41	17	4.4
5	6.1	e4.3	e1.7	e1.4	e1.3	e1.0	1.9	17	38	39	15	4.1
6	5.8	e3.9	e1.7	e1.3	e1.2	e1.0	2.1	15	29	40	12	3.8
7	5.6	e3.8	e1.7	e1.2	e1.2	e1.0	2.1	13	25	36	9.8	3.8
8	5.4	e3.8	e1.7	e1.2	e1.2	e1.0	2.1	11	24	34	8.7	3.8
9	5.5	e3.8	e1.7	e1.2	e1.1	e1.0	2.1	11	24	30	8.4	4.1
10	5.4	e3.8	e1.7	e1.2	e1.1	e1.0	2.0	13	26	34	8.5	4.4
11	5.4	e3.4	e1.7	e1.2	e1.1	e1.0	2.2	16	26	35	8.1	4.2
12	5.4	e3.2	e1.8	e1.1	e1.1	e1.1	2.8	15	27	33	7.7	4.3
13	5.4	e3.0	e1.8	e1.1	e1.1	e1.1	2.7	18	31	29	7.2	5.1
14	5.4	e2.7	e1.8	e1.1	e1.1	e1.2	2.7	18	27	25	6.6	4.9
15	5.6	e2.6	e1.8	e1.2	e1.1	e1.3	2.7	14	24	22	5.8	3.9
16	5.8	e2.5	e1.8	e1.2	e1.1	e1.4	2.7	12	24	20	5.7	4.4
17	5.9	e2.5	e1.8	e1.2	e1.0	e1.3	2.7	13	27	20	5.6	4.8
18	5.8	e2.5	e1.7	e1.2	e1.0	e1.2	2.7	14	25	19	5.6	4.1
19	5.6	e2.5	e1.6	e1.2	e1.0	e1.2	2.5	15	28	17	5.3	4.1
20	5.4	e2.5	e1.5	e1.2	e1.0	e1.3	2.5	16	38	15	5.0	4.1
21	5.4	e2.3	e1.5	e1.2	e1.0	e1.4	2.5	18	43	14	5.1	3.9
22	5.4	e2.8	e1.5	e1.2	e1.0	e1.5	2.9	15	51	13	5.2	3.8
23	5.4	e2.5	e1.5	e1.2	e1.0	e1.6	4.4	14	60	19	5.0	3.8
24	5.4	e2.5	e1.6	e1.2	e1.0	e1.9	5.9	12	55	17	4.9	3.7
25	5.3	e2.5	e1.6	e1.2	e1.0	e2.4	6.2	12	50	23	5.1	3.4
26	5.4	e2.3	e1.7	e1.3	e1.0	e2.4	6.2	16	49	23	5.2	3.0
27	5.4	e2.3	e1.7	e1.3	e.94	e2.3	5.9	19	45	17	5.2	2.7
28	5.4	e2.5	e1.7	e1.3	e.92	e1.9	6.0	25	49	20	4.9	2.7
29	5.4	e2.6	e1.6	e1.4	---	e1.8	7.1	28	54	26	4.6	2.7
30	5.4	e2.0	e1.5	e1.3	---	e1.7	8.7	30	50	22	4.5	2.7
31	e5.2	---	e1.5	e1.2	---	e1.7	---	41	---	17	4.4	---
TOTAL	174.9	94.7	52.0	38.5	30.36	42.52	102.1	508.5	1171	847	263.1	120.3
MEAN	5.64	3.16	1.68	1.24	1.08	1.37	3.40	16.4	39.0	27.3	8.49	4.01
MAX	7.2	5.0	1.9	1.5	1.3	2.4	8.7	41	66	54	30	5.5
MIN	5.2	2.0	1.5	1.1	.92	.88	1.9	9.1	24	13	4.4	2.7
AC-FT	347	188	103	76	60	84	203	1010	2320	1680	522	239

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1998, BY WATER YEAR (WY)

MEAN	4.09	2.52	1.76	1.44	1.35	1.47	4.03	24.0	54.4	30.8	9.77	5.14
MAX	9.43	3.84	3.28	3.84	3.94	3.85	6.98	44.8	101	94.5	31.1	11.2
(WY)	1985	1982	1986	1986	1986	1985	1992	1974	1978	1984	1983	1984
MIN	1.49	1.26	.94	.58	.70	.87	1.44	8.48	23.2	7.73	4.15	2.78
(WY)	1967	1980	1967	1967	1981	1981	1973	1995	1989	1994	1969	1988

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1967 - 1998	
ANNUAL TOTAL	4769.6		3444.98			
ANNUAL MEAN	13.1		9.44		11.8	
HIGHEST ANNUAL MEAN					22.7	1984
LOWEST ANNUAL MEAN					6.77	1989
HIGHEST DAILY MEAN	e100	Jun 20	a66	Jun 3	186	Jun 14 1978
LOWEST DAILY MEAN	e1.2	Feb 26	e.88	Mar 1	.24	Oct 29 1972
ANNUAL SEVEN-DAY MINIMUM	1.3	Feb 22	.95	Feb 24	.26	Oct 26 1972
INSTANTANEOUS PEAK FLOW			86	Jun 3	265	Jun 8 1985
INSTANTANEOUS PEAK STAGE			2.50	Jun 3	b2.85	Jun 8 1985
ANNUAL RUNOFF (AC-FT)	9460		6830		8520	
10 PERCENT EXCEEDS	43		27		38	
50 PERCENT EXCEEDS	5.3		4.1		3.3	
90 PERCENT EXCEEDS	1.6		1.2		1.1	

e-Estimated.
a-Also occurred Jun 4.
b-Maximum gage height, 3.75 ft, Jul 13, 1995, backwater from debris.

09066200 BOOTH CREEK NEAR MINTURN, CO

LOCATION.--Lat 39°38'54", long 106°19'21", in NE¼SE¼ of sec.3, T.5 S., R.80 W., Eagle County, Hydrologic Unit 14010003, near center of span on downstream side of old Highway 6 bridge pier, 100 ft upstream from frontage road to I-70, 0.2 mi upstream from mouth, 3.0 mi northeast of Vail, and 7.0 mi northeast of Minturn.

DRAINAGE AREA.--6.02 mi^2.

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

REVISED RECORDS.--WDR CO-89-2: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 8,325 ft above sea level, from topographic map. Prior to June 4, 1984, gage at site 1,000 ft upstream at different datum (gage destroyed by rock slide).

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion or regulation 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	3.2	e1.2	e.80	e.80	e.67	e1.9	12	80	48	18	2.3
2	3.5	3.1	e1.1	e.84	e.80	e.70	1.9	12	88	42	12	2.3
3	6.3	e3.4	e1.0	e.84	e.80	e.72	1.8	17	79	36	11	1.9
4	5.3	e2.7	e1.0	e.80	e.80	e.74	2.2	25	59	32	12	1.7
5	4.5	e2.3	e1.0	e.75	e.80	e.74	2.3	25	37	29	9.9	1.5
6	3.9	e2.1	e1.0	e.75	e.80	e.74	2.4	20	29	29	8.0	1.5
7	3.6	e1.9	e1.0	e.75	e.80	e.74	2.2	16	26	26	6.8	1.4
8	4.1	e1.8	e1.0	e.75	e.78	e.74	2.1	13	25	25	6.0	1.3
9	4.3	e1.8	e1.0	e.75	e.76	e.74	2.0	13	24	22	5.4	1.4
10	4.5	e1.9	e1.0	e.75	e.76	e.74	2.0	16	26	21	5.5	1.2
11	4.6	e2.0	e1.0	e.75	e.76	e.74	2.4	20	27	20	4.8	1.2
12	5.0	e1.9	e1.1	e.66	e.76	e.76	2.9	20	29	19	4.3	1.5
13	5.1	e1.7	e1.1	e.66	e.76	e.80	2.8	29	31	16	3.8	1.8
14	5.6	e1.6	e1.1	e.66	e.76	e.84	2.8	35	27	14	3.6	1.5
15	6.2	e1.5	e1.1	e.75	e.76	e.90	2.6	28	24	13	3.3	1.3
16	6.5	e1.5	e1.1	e.75	e.76	e1.0	2.4	23	24	12	3.0	1.5
17	6.6	e1.5	e1.1	e.75	e.72	e1.1	2.3	30	27	11	3.1	1.3
18	6.4	e1.4	e.90	e.75	e.72	e1.1	2.2	37	25	11	3.0	1.2
19	6.0	e1.4	e.90	e.75	e.72	e1.0	2.1	44	30	9.7	2.7	1.1
20	5.6	e1.4	e.90	e.75	e.72	e1.0	2.1	57	42	8.7	2.6	1.0
21	5.1	e1.3	e.90	e.75	e.72	e1.1	2.1	59	52	8.2	2.4	1.0
22	4.9	e1.7	e.90	e.75	e.72	e1.2	2.8	49	64	7.7	2.5	.96
23	4.6	e1.5	e.90	e.75	e.72	e1.3	5.0	37	64	9.0	2.2	.86
24	4.2	e1.4	e.96	e.75	e.72	e1.3	7.3	32	56	7.8	2.0	.86
25	3.9	e1.3	e.96	e.75	e.72	e1.5	7.6	31	57	11	2.3	.81
26	4.5	e1.3	e.96	e.75	e.72	e1.8	6.5	42	62	9.6	2.3	.78
27	4.7	e1.3	e.96	e.75	e.70	e2.0	6.2	54	63	7.4	2.5	.74
28	4.0	e1.4	e.96	e.75	e.68	e2.0	6.7	69	61	11	2.1	.74
29	3.6	e1.5	e.96	e.80	---	e1.9	8.6	78	61	14	1.9	.76
30	3.5	e1.3	e.92	e.84	---	e1.9	11	81	58	11	1.7	.85
31	3.5	---	e.86	e.82	---	e1.9	---	76	---	8.8	1.7	---
TOTAL	147.7	54.1	30.84	23.47	21.04	34.41	109.2	1100	1357	549.9	152.4	38.26
MEAN	4.76	1.80	.99	.76	.75	1.11	3.64	35.5	45.2	17.7	4.92	1.28
MAX	6.6	3.4	1.2	.84	.80	2.0	11	81	88	48	18	2.3
MIN	3.5	1.3	.86	.66	.68	.67	1.8	12	24	7.4	1.7	.74
AC-FT	293	107	61	47	42	68	217	2180	2690	1090	302	76

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1998, BY WATER YEAR (WY)

MEAN	2.93	2.02	1.26	1.01	.96	1.37	5.47	31.4	64.7	25.8	5.85	3.02
MAX	8.30	7.17	3.54	2.48	2.97	5.72	14.2	57.8	123	70.4	14.4	7.29
(WY)	1985	1985	1985	1985	1985	1986	1986	1974	1982	1983	1984	1984
MIN	.88	.66	.67	.37	.39	.41	1.39	10.0	23.5	3.65	1.45	.97
(WY)	1975	1965	1975	1977	1981	1981	1973	1995	1966	1994	1994	1974

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1965 - 1998	
ANNUAL TOTAL	4917.51		3618.32			
ANNUAL MEAN	13.5		9.91		12.2	
HIGHEST ANNUAL MEAN					19.0	1982
LOWEST ANNUAL MEAN					6.66	1977
HIGHEST DAILY MEAN	107	Jun 20	88	Jun 2	218	Jun 15 1978
LOWEST DAILY MEAN	e.74	Feb 26	a,e.66	Jan 12	b.20	Feb 8 1967
ANNUAL SEVEN-DAY MINIMUM	.80	Feb 22	.70	Feb 24	.33	Feb 7 1967
INSTANTANEOUS PEAK FLOW			117	Jun 2	355	Jun 15 1978
INSTANTANEOUS PEAK STAGE			3.28	Jun 2	c4.07	Jun 15 1978
ANNUAL RUNOFF (AC-FT)	9750		7180		8800	
10 PERCENT EXCEEDS	56		30		41	
50 PERCENT EXCEEDS	4.0		2.1		2.3	
90 PERCENT EXCEEDS	.91		.75		.75	

e-Estimated.
a-Also occurred Jan 13-14.
b-Also occurred Jan 29, 1970, and Feb 10-11, 1981.
c-Maximum gage height, 4.62 ft, Jun 18, 1963, backwater from debris.

09066300 MIDDLE CREEK NEAR MINTURN, CO

LOCATION.--Lat 39°38'45", long 106°22'54", in sec.6, T.5 S., R.80 W., Eagle County, Hydrologic Unit 14010003, on right bank 200 ft upstream from Interstate Highway 70, 0.2 mi upstream from mouth, and 5.0 mi northeast of Minturn.

DRAINAGE AREA.--5.94 mi^2.

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

REVISED RECORDS.--WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 8,200 ft above sea level, from topographic map. Prior to Oct. 1, 1977 at site 700 ft upstream, at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion or regulation 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.2	e.74	e.56	e.41	e.27	e.42	2.7	30	24	6.4	1.6
2	1.1	1.1	e.70	e.47	e.40	e.28	.48	2.8	35	21	4.5	1.6
3	2.0	1.2	e.68	e.50	e.39	e.28	.46	3.6	41	19	4.6	1.2
4	1.5	e1.3	e.66	e.50	e.39	e.28	.46	5.0	36	17	5.0	1.0
5	1.3	e1.3	e.66	e.50	e.41	e.28	.46	5.4	28	15	4.3	.85
6	1.2	e1.2	e.66	e.48	e.40	e.28	.48	5.0	24	14	3.7	.84
7	1.1	e1.2	e.66	e.45	e.39	e.28	.50	4.3	20	13	3.4	.81
8	1.3	e1.1	e.66	e.43	e.38	e.28	.50	4.0	18	13	3.2	.79
9	1.4	e1.0	e.66	e.43	e.36	e.28	.49	4.0	17	12	2.9	.84
10	1.6	e1.0	e.66	e.43	e.36	e.28	.48	4.4	17	11	3.0	.74
11	1.6	e1.0	e.66	e.43	e.36	e.28	.54	5.5	16	9.6	3.0	.78
12	1.6	e.98	e.72	e.43	e.36	e.30	.68	5.6	16	8.7	2.5	.86
13	1.7	e.96	e.72	e.38	e.36	e.32	.61	6.9	17	7.8	2.0	1.2
14	1.8	e.90	e.72	e.35	e.36	e.34	.61	7.6	17	7.2	1.8	.93
15	1.8	e.86	e.72	e.40	e.36	e.35	.64	6.7	16	6.6	1.7	.84
16	1.7	e.82	e.72	e.40	e.34	e.35	.61	6.6	16	6.2	1.8	1.1
17	1.7	e.82	e.72	e.40	e.33	e.33	.61	7.8	17	5.7	1.8	.80
18	1.7	e.82	e.72	e.40	e.33	e.32	.60	9.6	17	5.2	1.8	.67
19	1.6	e.82	e.64	e.40	e.33	e.32	.61	11	17	4.7	1.7	.63
20	1.5	e.82	e.56	e.40	e.33	e.35	.60	14	20	4.4	1.6	.58
21	1.6	e.80	e.52	e.40	e.33	e.42	.60	16	23	4.2	1.5	.56
22	1.5	e.94	e.52	e.40	e.33	e.52	.66	15	28	4.1	1.8	.52
23	1.5	e.88	e.52	e.40	e.33	e.58	1.0	13	31	4.5	1.5	.53
24	1.3	e.84	e.52	e.40	e.33	e.66	1.4	12	30	4.1	1.3	.55
25	1.3	e.80	e.54	e.40	e.33	e.68	1.5	12	30	5.4	1.6	.52
26	1.4	e.76	e.56	e.41	e.33	e.68	1.2	13	31	4.5	1.7	.47
27	1.4	e.76	e.56	e.42	e.31	e.60	1.2	16	31	3.7	1.8	.46
28	1.3	e.80	e.56	e.44	e.28	e.54	1.3	19	30	4.7	1.4	.49
29	1.3	e.86	e.56	e.44	---	e.50	1.6	25	29	5.6	1.2	.54
30	1.3	e.86	e.56	e.42	---	e.45	2.2	29	28	4.3	1.1	.68
31	1.3	---	e.56	e.41	---	e.43	---	29	---	3.8	.99	---
TOTAL	45.5	28.70	19.62	13.28	9.92	12.11	23.50	321.5	726	274.0	76.59	23.98
MEAN	1.47	.96	.63	.43	.35	.39	.78	10.4	24.2	8.84	2.47	.80
MAX	2.0	1.3	.74	.56	.41	.68	2.2	29	41	24	6.4	1.6
MIN	1.1	.76	.52	.35	.28	.27	.42	2.7	16	3.7	.99	.46
AC-FT	90	57	39	26	20	24	47	638	1440	543	152	48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1998, BY WATER YEAR (WY)

MEAN	1.22	.82	.50	.41	.38	.41	1.32	11.9	35.3	13.5	3.26	1.69
MAX	3.90	3.10	1.75	2.45	2.34	2.16	6.53	25.5	53.1	39.5	14.0	7.18
(WY)	1985	1983	1986	1986	1986	1985	1985	1984	1984	1995	1983	1979
MIN	.36	.030	.000	.000	.000	.000	.26	3.41	14.3	2.30	.86	.36
(WY)	1965	1965	1965	1965	1965	1965	1976	1995	1966	1977	1977	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1965 - 1998	
ANNUAL TOTAL	2669.83		1574.70			
ANNUAL MEAN	7.31		4.31		5.89	
HIGHEST ANNUAL MEAN					11.3	1984
LOWEST ANNUAL MEAN					2.52	1977
HIGHEST DAILY MEAN	a75	Jun 7	41	Jun 3	93	Jun 22 1983
LOWEST DAILY MEAN	e.43	Feb 26	e.27	Mar 1	b.00	Nov 10 1964
ANNUAL SEVEN-DAY MINIMUM	.46	Feb 25	.28	Feb 28	.00	Nov 10 1964
INSTANTANEOUS PEAK FLOW			48	Jun 2	116	Jun 20 1974
INSTANTANEOUS PEAK STAGE			2.33	Jun 2	c, d2.65	Jun 20 1974
ANNUAL RUNOFF (AC-FT)	5300		3120		4270	
10 PERCENT EXCEEDS	25		16		20	
50 PERCENT EXCEEDS	1.3		.93		.94	
90 PERCENT EXCEEDS	.56		.36		.20	

e-Estimated.
a-Also occurred Jun 8.
b-No flow at times most years.
c-Maximum gage height, 3.28 ft, Jun 25, 1983, backwater from debris.
d-Site and datum then in use.

09066310 GORE CREEK AT LOWER STATION, AT VAIL, CO

LOCATION.--Lat 39°38'28", long 106°23'37", in NW¼NW¼ sec.7, T.5 S., R.80 W., Eagle County, Hydrologic Unit 14010003, on right bank 40 ft south 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 mi^2.

PERIOD OF RECORD.--August 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 8,060 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	29	19	17	15	e10	20	95	560	405	156	44
2	38	29	20	15	17	e11	20	94	614	367	119	44
3	51	27	18	16	14	11	18	114	648	334	105	36
4	45	28	e18	16	14	11	19	155	532	306	121	33
5	40	27	e18	16	14	11	21	162	397	287	104	30
6	37	27	e18	15	15	11	21	156	317	288	89	29
7	36	26	e18	e15	14	11	19	130	281	266	77	27
8	40	26	18	e15	14	e11	19	112	266	253	71	27
9	38	26	18	e15	13	11	18	114	254	243	64	27
10	39	26	18	e15	e13	11	18	130	262	251	70	26
11	39	28	e18	14	e13	12	21	170	259	251	69	25
12	42	27	e18	14	e13	12	26	159	267	221	61	28
13	40	26	e19	14	e13	13	25	192	305	197	55	33
14	41	23	e19	14	13	13	25	227	282	176	53	31
15	44	e23	e19	e14	13	14	23	192	257	160	49	27
16	45	e22	e19	14	13	16	21	172	251	145	46	35
17	46	e23	e19	15	13	16	20	204	279	141	43	34
18	46	e22	19	14	12	15	20	253	266	133	45	30
19	43	22	16	e15	12	14	19	291	269	122	42	27
20	41	23	e16	e15	e12	14	23	333	351	113	39	26
21	40	22	e16	e15	e12	15	25	370	389	107	38	24
22	38	21	e16	e15	12	17	29	363	433	102	41	24
23	36	28	e16	e15	12	19	41	286	459	112	36	23
24	36	24	e16	e15	12	23	60	267	424	108	35	24
25	30	23	e17	e15	12	31	66	250	408	132	36	22
26	33	21	e17	e15	e12	32	56	311	450	132	39	21
27	33	22	e17	e16	e11	30	51	374	460	104	40	21
28	34	21	e18	e16	e11	26	57	466	455	117	34	21
29	32	22	e18	e17	---	24	68	517	448	151	32	21
30	32	24	18	e16	---	22	82	561	439	122	30	22
31	31	---	17	14	---	21	---	540	---	106	31	---
TOTAL	1205	738	551	467	364	508	951	7760	11282	5952	1870	842
MEAN	38.9	24.6	17.8	15.1	13.0	16.4	31.7	250	376	192	60.3	28.1
MAX	51	29	20	17	17	32	82	561	648	405	156	44
MIN	30	21	16	14	11	10	18	94	251	102	30	21
AC-FT	2390	1460	1090	926	722	1010	1890	15390	22380	11810	3710	1670

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1998, BY WATER YEAR (WY)

MEAN	25.6	19.2	14.6	12.3	11.3	15.9	48.6	317	633	234	60.3	31.3
MAX	38.9	25.7	21.7	19.5	16.4	28.9	87.0	510	1008	658	124	44.7
(WY)	1998	1996	1996	1997	1996	1997	1989	1996	1997	1995	1995	1997
MIN	16.8	12.9	8.46	6.61	7.73	9.74	25.5	99.9	337	55.8	25.4	19.3
(WY)	1990	1989	1995	1995	1990	1991	1991	1995	1994	1994	1994	1988

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1988 - 1998	
ANNUAL TOTAL	59782		32490			
ANNUAL MEAN	164		89.0		119	
HIGHEST ANNUAL MEAN					166	1993
LOWEST ANNUAL MEAN					77.6	1994
HIGHEST DAILY MEAN	1450	Jun 5	648	Jun 3	1450	Jun 5 1997
LOWEST DAILY MEAN	e11	Feb 26	e10	Mar 1	5.9	Jan 25 1995
ANNUAL SEVEN-DAY MINIMUM	12	Feb 24	11	Feb 27	6.0	Jan 23 1995
INSTANTANEOUS PEAK FLOW			795	Jun 2	1840	Jun 4 1997
INSTANTANEOUS PEAK STAGE			9.74	Jun 2	11.50	Jun 4 1997
ANNUAL RUNOFF (AC-FT)	118600		64440		86050	
10 PERCENT EXCEEDS	584		281		401	
50 PERCENT EXCEEDS	41		28		25	
90 PERCENT EXCEEDS	17		14		10	

e-Estimated.

09066400 RED SANDSTONE CREEK NEAR MINTURN, CO

LOCATION.--Lat 39°40'58", long 106°24'03", in sec.25, T.4 S., R.81 W., (projected), Eagle County, Hydrologic Unit 14010003, on left bank 150 ft upstream from road culvert, 1,400 ft upstream from Indian Creek, and 6.8 mi north of Minturn.

DRAINAGE AREA.--7.32 mi^2.

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 9,212 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	e2.3	e1.9	e1.2	e1.0	e.88	e.96	4.2	54	22	6.2	2.0
2	2.4	e2.2	e1.8	e1.2	e1.1	e.90	e.98	4.3	56	19	4.6	2.1
3	3.7	e2.2	e1.7	e1.3	e1.1	e.87	e1.0	4.5	54	17	4.5	1.8
4	3.0	e2.1	e1.6	e1.2	e1.1	e.85	e1.0	4.7	46	15	e5.7	1.6
5	2.6	e2.1	e1.6	e1.1	e1.0	e.84	e1.1	6.4	38	14	e3.5	1.5
6	2.5	e2.1	e1.7	e.98	e1.0	e.85	e1.1	7.9	33	13	3.3	1.5
7	2.4	e2.0	e1.8	e.88	e1.0	e.82	e1.2	6.3	29	11	3.1	1.5
8	2.8	e2.1	e1.7	e.94	e1.1	e.82	e1.1	6.0	27	11	2.9	1.4
9	3.1	e2.1	e1.7	e.88	e1.1	e.80	e1.1	6.2	24	11	2.7	e1.4
10	3.2	e2.0	e1.6	e.91	e.96	e.80	e1.1	7.6	24	9.5	2.9	e1.1
11	3.0	e2.1	e1.5	e.96	e1.0	e.84	e1.2	11	23	8.3	2.8	e1.2
12	2.9	e2.2	e1.3	e1.0	e1.1	e.86	e1.6	13	22	7.5	2.6	e1.6
13	3.0	e2.1	e1.3	e.83	e1.1	e.88	e1.9	20	23	6.7	2.3	e1.5
14	e3.1	e1.8	e1.4	e.86	e1.1	e.90	e1.9	21	23	6.2	2.2	e1.4
15	e3.2	e1.7	e1.4	e.90	e1.1	e.98	e1.9	16	22	5.6	2.2	e1.7
16	e3.2	e1.9	e1.4	e.98	e1.1	e1.0	e1.9	19	20	5.1	2.1	e1.7
17	e3.1	e1.9	e1.4	e1.1	e1.0	e.98	e1.8	25	21	4.7	2.1	e1.5
18	e3.0	e1.8	e1.5	e1.0	e.98	e.96	e1.7	35	21	4.3	2.2	e1.3
19	e2.9	e1.8	e1.5	e.98	e.97	e.90	e1.7	38	20	3.9	2.2	e1.2
20	e2.9	e1.8	e1.3	e.92	e1.0	e.86	e1.7	39	23	3.6	2.0	e1.1
21	e2.8	e1.7	e1.4	e.88	e1.0	e.90	e1.6	43	24	3.3	2.0	e1.1
22	e2.8	e1.7	e1.3	e.96	e1.0	e.94	e1.6	41	27	3.3	2.2	e1.0
23	e2.9	e1.7	e1.3	e1.0	e1.0	e.98	e1.8	35	28	4.1	1.9	e1.2
24	e3.0	e1.7	e1.3	e1.1	e1.1	e1.0	e3.0	33	27	3.7	1.8	e1.1
25	e2.8	e1.8	e1.1	e1.0	e.99	e1.1	5.7	31	26	5.1	2.0	e1.0
26	e2.8	e2.0	e1.1	e1.0	e.98	e1.1	4.4	36	27	4.1	2.0	e1.1
27	e2.6	e2.1	e1.2	e.99	e.94	e1.1	3.9	41	27	3.4	2.1	e1.0
28	e2.7	e2.0	e1.3	e.98	e.82	e1.0	3.9	48	26	4.3	1.8	e.99
29	e2.6	e1.9	e1.3	e.99	---	e1.0	4.1	52	25	5.1	1.7	e1.1
30	e2.5	e1.9	e1.3	e1.0	---	e.98	4.1	54	25	3.9	1.7	e1.2
31	e2.4	---	e1.2	e1.0	---	e.96	---	53	---	3.6	1.6	---
TOTAL	88.3	58.8	44.9	31.02	28.74	28.65	62.04	762.1	865	242.3	82.9	40.89
MEAN	2.85	1.96	1.45	1.00	1.03	.92	2.07	24.6	28.8	7.82	2.67	1.36
MAX	3.7	2.3	1.9	1.3	1.1	1.1	5.7	54	56	22	6.2	2.1
MIN	2.4	1.7	1.1	.83	.82	.80	.96	4.2	20	3.3	1.6	.99
AC-FT	175	117	89	62	57	57	123	1510	1720	481	164	81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1998, BY WATER YEAR (WY)

MEAN	2.03	1.55	1.23	1.04	.99	1.11	3.42	29.3	50.7	12.5	3.61	2.21
MAX	5.14	3.80	2.60	2.14	2.14	1.90	6.60	69.9	92.0	44.0	15.0	5.57
(WY)	1985	1985	1985	1985	1985	1985	1971	1996	1983	1983	1983	1984
MIN	.92	.57	.51	.52	.48	.46	1.47	6.85	16.3	3.22	1.59	.98
(WY)	1989	1977	1977	1987	1987	1987	1973	1995	1966	1977	1987	1987

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1964 - 1998	
ANNUAL TOTAL	4265.74		2335.64			
ANNUAL MEAN	11.7		6.40		9.14	
HIGHEST ANNUAL MEAN					14.9	1983
LOWEST ANNUAL MEAN					4.31	1977
HIGHEST DAILY MEAN	126	Jun 4	56	Jun 2	164	Jun 20 1983
LOWEST DAILY MEAN	e.96	Feb 9	e,a.80	Mar 9	.20	Jan 30 1970
ANNUAL SEVEN-DAY MINIMUM	1.0	Jan 28	.82	Mar 5	.34	Jan 28 1970
INSTANTANEOUS PEAK FLOW			67	Jun 2	223	Jun 17 1995
INSTANTANEOUS PEAK STAGE			3.83	Jun 2	b4.58	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	8460		4630		6620	
10 PERCENT EXCEEDS	42		23		29	
50 PERCENT EXCEEDS	2.4		1.9		1.8	
90 PERCENT EXCEEDS	1.1		.98		.81	

e-Estimated.
a-Also occurred Mar 10.
b-Maximum gage height, 5.18 ft, Apr 17, 1987, backwater from ice.

09066510 GORE CREEK AT MOUTH NEAR MINTURN, CO

LOCATION.--Lat 39°36'34", long 106°26'50", in NE¼NW¼ 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 mi^2.

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 fair 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	35	e27	22	21	e17	30	127	656	411	164	51
2	45	33	26	23	22	e16	33	126	733	372	129	52
3	65	32	25	24	21	e17	31	149	741	336	112	43
4	57	34	e24	23	22	e18	33	194	631	308	131	39
5	50	32	e24	22	22	e18	35	203	481	288	114	36
6	46	33	e25	21	e21	e18	36	197	388	287	97	34
7	45	33	e25	e20	e21	e18	34	169	342	264	85	32
8	49	32	27	e20	21	e18	33	150	320	255	78	30
9	46	33	25	e20	22	e18	32	156	301	245	72	31
10	49	30	24	e20	21	e18	32	173	305	247	76	30
11	50	35	e24	e20	e21	19	37	220	299	251	76	29
12	53	34	e23	e20	e20	20	46	210	301	222	67	32
13	48	31	e23	e20	e20	21	43	246	344	199	61	38
14	50	27	e23	20	e20	23	43	289	323	178	59	35
15	54	e27	e24	e19	e19	24	40	249	296	162	56	30
16	57	e27	e24	e19	e19	27	38	229	284	145	53	39
17	58	e27	e23	e19	e19	28	36	260	309	142	50	40
18	58	e27	e23	e19	19	25	36	318	300	134	51	34
19	55	e27	e23	e20	19	23	33	362	293	124	50	31
20	53	e28	e22	e21	e18	23	35	410	371	116	46	29
21	50	e27	e22	e21	e18	23	34	466	412	109	45	27
22	47	e27	e22	e21	19	26	40	458	458	105	48	26
23	45	e27	e22	e21	e19	29	55	366	486	115	43	26
24	47	e27	e22	e21	e19	33	80	339	448	114	42	26
25	37	e28	e21	22	20	43	91	319	427	138	41	25
26	40	29	e21	22	e19	46	78	382	463	139	47	24
27	41	e29	e21	e23	e19	44	71	453	475	111	47	23
28	43	e29	e22	22	e18	39	76	553	467	120	40	22
29	41	e27	e22	e22	---	35	92	619	458	161	38	22
30	40	e27	e22	e22	---	31	111	666	447	130	35	23
31	40	---	22	21	---	30	---	638	---	113	35	---
TOTAL	1505	894	723	650	559	788	1444	9696	12559	6041	2088	959
MEAN	48.5	29.8	23.3	21.0	20.0	25.4	48.1	313	419	195	67.4	32.0
MAX	65	35	27	24	22	46	111	666	741	411	164	52
MIN	37	27	21	19	18	16	30	126	284	105	35	22
AC-FT	2990	1770	1430	1290	1110	1560	2860	19230	24910	11980	4140	1900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1998, BY WATER YEAR (WY)

MEAN	46.5	31.9	25.5	22.2	20.6	32.5	76.6	495	840	254	77.7	43.8
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	43.8	29.8	23.3	19.0	19.5	25.4	48.1	313	419	195	57.7	32.0
(WY)	1997	1998	1998	1996	1996	1998	1998	1998	1998	1998	1996	1998

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1996 - 1998	
ANNUAL TOTAL	70643		37906			
ANNUAL MEAN	194		104		164	
HIGHEST ANNUAL MEAN					194	1996
LOWEST ANNUAL MEAN					104	1998
HIGHEST DAILY MEAN	a1540	Jun 4	741	Jun 3	a1540	Jun 4 1997
LOWEST DAILY MEAN	e18	Feb 26	e16	Mar 2	e,b16	Mar 7 1996
ANNUAL SEVEN-DAY MINIMUM	19	Feb 24	17	Feb 28	17	Feb 28 1998
INSTANTANEOUS PEAK FLOW			931	Jun 2	1850	Jun 4 1997
INSTANTANEOUS PEAK STAGE			8.47	Jun 2	9.97	Jun 4 1997
ANNUAL RUNOFF (AC-FT)	140100		75190		118800	
10 PERCENT EXCEEDS	702		319		498	
50 PERCENT EXCEEDS	52		35		43	
90 PERCENT EXCEEDS	23		20		20	

e-Estimated.
a-Also occurred Jun 5, 1997.
b-Also occurred Mar 2, 1998.

09066510 GORE CREEK AT MOUTH NEAR MINTURN, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1995 to September 1998 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1996 to September 1997.
WATER TEMPERATURE: October 1996 to September 1998 (discontinued).

INSTRUMENTATION.--Water-quality monitor with satellite telemetry October 1996 to September 1997. Water temperature sensor and logger October 1997 to September 1998 (discontinued).

REMARKS.--Upper Colorado River Basin National Water Quality Assessment station (NAWQA). Daily water-temperature data are good. Data not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 464 microsiemens Jan. 29, 1997; minimum, 83 microsiemens June 19-20, 1997.
WATER TEMPERATURE: Maximum, 18.8°C, Aug. 23, 1998; minimum, 0.0°C on many days during winters.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 18.8°C, Aug. 23 (more than 20 percent missing record); minimum, 0.0°C on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT												
22...	1430	43	270	8.9	5.5	9.9	120	38	6.5	4.4	0.2	0.9
NOV												
20...	1345	29	334	8.7	2.5	10.9	140	45	8.0	5.7	0.2	1.0
DEC												
16...	1550	23	402	8.5	0.0	10.4	170	54	9.7	11	0.3	1.4
JAN												
23...	1225	16	406	8.6	0.0	11.5	180	58	9.9	9.8	0.3	1.7
FEB												
18...	1530	20	437	9.3	2.5	11.0	200	62	11	11	0.3	1.9
MAR												
19...	1010	19	465	8.6	1.0	11.5	190	58	10	14	0.4	2.1
APR												
09...	1145	32	401	9.0	4.5	10.0	160	50	8.7	13	0.4	1.4
27...	1335	70	287	9.1	6.0	10.8	120	37	6.1	8.6	0.3	1.0
MAY												
19...	1355	325	136	8.3	7.0	9.4	60	19	2.9	2.4	0.1	0.5
JUN												
01...	1545	561	106	8.2	9.0	9.1	46	15	2.3	1.7	0.1	0.5
09...	1015	297	145	8.1	5.0	9.6	64	20	3.2	2.3	0.1	0.5
17...	1400	307	134	8.4	7.0	9.4	57	18	3.0	2.1	0.1	0.5
JUL												
08...	1200	250	126	8.8	9.5	9.2	55	17	3.0	2.0	0.1	0.5
30...	1410	130	169	9.0	14.0	--	76	24	4.2	3.1	0.2	0.8
AUG												
05...	0810	115	170	8.2	9.0	8.8	79	24	4.5	3.0	0.1	0.6
SEP												
17...	1005	42	287	8.4	9.0	9.2	130	39	7.1	5.4	0.2	1.0

09066510 GORE CREEK AT MOUTH NEAR MINTURN, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
OCT												
22...	110	--	90	32	6.8	<0.1	4.3	152	151	0.21	17.6	0.01
NOV												
20...	107	6	98	44	10	0.1	4.8	200	179	0.27	15.6	<0.01
DEC												
16...	138	--	113	56	15	<0.1	5.6	250	226	0.34	15.3	<0.01
JAN												
23...	146	1	122	57	15	0.2	5.5	253	236	0.34	10.9	0.01
FEB												
18...	113	20	127	67	19	0.2	4.1	273	257	0.37	14.7	<0.01
MAR												
19...	142	4	122	60	28	0.1	4.3	274	258	0.37	14.1	<0.01
APR												
09...	111	11	109	46	26	0.1	3.4	232	217	0.32	20.0	<0.01
27...	93	8	90	22	16	0.1	4.4	166	151	0.23	31.4	<0.01
MAY												
19...	63	1	54	6.3	3.8	<0.1	4.4	82	72	0.11	72.0	<0.01
JUN												
01...	52	--	43	4.3	2.1	<0.1	4.1	64	56	0.09	96.9	0.02
09...	72	--	59	8.1	3.2	<0.1	4.7	85	78	0.12	68.2	<0.01
17...	65	--	53	7.5	2.7	<0.1	4.1	79	70	0.11	65.5	<0.01
JUL												
08...	52	2	47	9.0	2.3	0.1	3.6	77	66	0.10	51.1	<0.01
30...	62	6	61	14	4.1	<0.1	3.9	102	91	0.14	35.8	<0.01
AUG												
05...	79	--	65	15	3.9	<0.1	3.8	103	95	0.14	32.0	<0.01
SEP												
17...	107	4	94	31	8.3	0.1	4.0	153	154	0.21	17.4	<0.01

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	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 DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
OCT											
22...	0.41	<0.01	<0.2	<0.2	0.02	0.03	0.04	1.2	<0.2	10	<1
NOV											
20...	0.50	--	<0.1	<0.1	0.03	0.03	--	1.0	0.2	<3	<1
DEC											
16...	1.1	<0.02	0.1	0.2	0.12	0.12	0.12	1.1	<0.2	<10	<4
JAN											
23...	1.5	<0.02	0.1	<0.1	0.18	0.17	0.21	1.5	<0.2	<10	<4
FEB											
18...	1.1	<0.02	0.2	0.2	0.25	0.23	0.19	1.5	0.2	<10	<4
MAR											
19...	1.6	0.03	0.2	0.2	0.29	0.26	0.25	1.6	0.3	<10	<4
APR											
09...	0.66	0.03	0.2	0.1	0.16	0.15	0.14	1.8	--	<10	<4
27...	0.19	<0.02	0.2	0.1	0.04	0.03	0.03	2.3	0.4	10	<4
MAY											
19...	0.07	0.05	0.1	0.1	<0.01	<0.01	0.02	3.1	0.5	<10	<4
JUN											
01...	0.07	0.05	<0.1	0.1	0.04	<0.01	0.02	2.8	0.2	11	<4
09...	0.08	0.03	<0.1	0.1	<0.01	<0.01	<0.01	2.3	0.2	10	<4
17...	0.05	0.05	0.1	<0.1	<0.01	<0.01	0.01	2.3	0.3	<10	6
JUL											
08...	0.06	0.03	<0.1	<0.1	0.02	0.03	0.02	1.5	0.3	<10	<4
30...	0.19	0.02	0.1	0.1	0.05	0.04	0.04	1.4	0.4	<10	<4
AUG											
05...	0.21	0.03	0.1	<0.1	0.06	<0.01	0.02	1.4	0.3	<10	<4
SEP											
17...	0.26	<0.02	0.1	<0.1	0.05	0.04	0.04	1.2	0.6	<10	<4

09066510 GORE CREEK AT MOUTH NEAR MINTURN, CO--Continued

(National Water-Quality Assessment Program station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154) [a]	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT				
22...	1415	43	1	0.12
22...	1430	43	1	0.12
NOV				
20...	1320	30	1	0.08
20...	1345	29	1	0.08
DEC				
16...	1540	23	4	0.25
16...	1550	23	3	0.18
JAN				
23...	1225	16	2	0.07
23...	1235	16	2	0.07
FEB				
18...	1530	20	1	0.04
18...	1535	20	1	0.07
MAR				
19...	1010	19	3	0.15
19...	1020	19	3	0.14
APR				
09...	1145	32	1	0.09
09...	1155	32	2	0.17
27...	1335	70	3	0.57
MAY				
19...	1355	325	15	13
19...	1440	325	19	17
JUN				
01...	1525	564	21	32
01...	1545	561	17	26
09...	0955	297	6	4.8
09...	1015	297	3	2.4
17...	1350	307	4	3.3
17...	1400	307	4	3.3
JUL				
08...	1140	246	3	2.0
08...	1200	246	3	2.0
30...	1410	130	2	0.70
AUG				
05...	0810	115	3	0.93
SEP				
17...	1005	42	4	0.45

a-Suspended-sediment concentrations were determined from a subsample split of a composite sample.

09066510 GORE CREEK AT MOUTH NEAR MINTURN, CO--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	11.8	6.3	9.1	3.5	1.6	2.4	2.4	.0	1.1	1.3	.0	.6
2	10.6	7.5	9.3	3.5	1.2	2.1	2.3	.0	1.2	2.1	.7	1.3
3	10.6	8.3	9.2	3.4	.0	1.4	1.6	.0	.8	2.7	1.8	2.1
4	10.7	5.4	8.0	4.8	.5	2.4	.0	.0	.0	2.3	.8	1.6
5	10.8	5.3	8.0	4.5	.7	2.4	.0	.0	.0	2.0	.0	.7
6	10.3	5.5	8.1	4.3	.7	2.3	.0	.0	.0	1.0	.3	.6
7	10.9	6.4	8.6	4.3	.5	2.3	.0	.0	.0	.3	.0	.0
8	9.2	5.2	7.0	4.0	1.0	2.5	2.3	.0	1.2	.0	.0	.0
9	8.1	2.7	5.1	4.2	2.4	3.1	1.5	.2	.9	.0	.0	.0
10	8.6	3.5	6.1	3.4	1.5	2.4	.7	.0	.3	.0	.0	.0
11	8.0	5.9	7.2	3.1	1.8	2.3	.0	.0	.0	.5	.0	.2
12	6.4	2.7	3.9	3.4	1.0	2.3	.0	.0	.0	.8	.4	.6
13	5.2	.8	2.8	3.2	1.0	1.9	.0	.0	.0	.7	.4	.5
14	5.9	.7	3.0	1.8	.0	.5	.0	.0	.0	.4	.0	.2
15	6.5	1.5	3.9	.0	.0	.0	.0	.0	.0	---	---	---
16	6.4	1.8	4.2	.0	.0	.0	.0	.0	.0	---	---	---
17	6.9	1.9	4.4	.0	.0	.0	.0	.0	.0	---	---	---
18	6.7	2.1	4.4	.0	.0	.0	.4	.0	.1	---	---	---
19	6.7	2.0	4.4	1.8	.0	.7	.8	.0	.3	---	---	---
20	6.4	3.0	4.8	2.4	.8	1.7	.4	.0	.1	---	---	---
21	7.0	2.8	4.9	1.3	.0	.5	.0	.0	.0	---	---	---
22	6.3	2.3	4.4	1.6	.0	.7	.7	.0	.1	---	---	---
23	4.9	2.1	3.8	1.0	.0	.2	.3	.0	.0	---	---	---
24	4.2	1.3	2.4	1.6	.0	.5	.0	.0	.0	---	---	---
25	2.4	.4	1.3	2.9	.0	1.3	.0	.0	.0	---	---	---
26	3.1	.0	1.2	2.6	1.0	1.7	.0	.0	.0	---	---	---
27	3.8	.0	1.4	3.5	2.3	2.8	.0	.0	.0	---	---	---
28	4.0	.2	1.9	3.2	1.5	2.2	.0	.0	.0	---	---	---
29	4.0	.5	2.2	2.1	.0	.8	1.0	.0	.3	---	---	---
30	4.9	2.7	3.7	2.3	.0	.6	2.0	.8	1.3	---	---	---
31	4.5	3.1	3.9	---	---	---	1.6	.0	.5	---	---	---
MONTH	11.8	.0	4.9	4.8	.0	1.5	2.4	.0	.3	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	7.9	.0	3.5	7.7	2.4	5.2
2	---	---	---	---	---	---	5.0	2.4	3.3	7.7	2.6	5.2
3	---	---	---	---	---	---	8.2	2.0	4.8	10.5	2.6	6.0
4	---	---	---	---	---	---	8.8	2.7	5.5	8.5	2.0	5.0
5	---	---	---	---	---	---	---	---	---	7.6	2.7	4.9
6	---	---	---	---	---	---	---	---	---	6.0	2.3	4.0
7	---	---	---	---	---	---	---	---	---	7.3	2.6	4.6
8	---	---	---	---	---	---	---	---	---	8.5	2.6	5.3
9	---	---	---	---	---	---	---	---	---	8.2	3.7	5.7
10	---	---	---	---	---	---	---	---	---	10.2	3.1	6.2
11	---	---	---	---	---	---	---	---	---	8.4	3.2	5.3
12	---	---	---	---	---	---	---	---	---	9.3	2.6	5.5
13	---	---	---	---	---	---	---	---	---	9.6	2.7	5.8
14	---	---	---	---	---	---	---	---	---	7.6	3.2	4.9
15	---	---	---	---	---	---	---	---	---	7.7	2.3	4.5
16	---	---	---	---	---	---	---	---	---	9.4	2.1	5.4
17	---	---	---	---	---	---	---	---	---	9.9	2.6	5.9
18	---	---	---	---	---	---	---	---	---	9.0	2.9	5.5
19	---	---	---	---	---	---	---	---	---	8.4	2.6	5.3
20	---	---	---	---	---	---	---	---	---	8.5	3.1	5.4
21	---	---	---	---	---	---	---	---	---	8.1	3.5	5.3
22	---	---	---	7.1	2.7	4.7	---	---	---	6.2	2.6	4.4
23	---	---	---	7.9	4.0	5.8	---	---	---	8.7	2.7	5.2
24	---	---	---	9.4	2.6	5.7	---	---	---	6.3	2.9	4.6
25	---	---	---	7.4	3.1	5.0	---	---	---	9.9	2.6	5.8
26	---	---	---	6.3	2.9	4.4	---	---	---	8.4	3.5	5.8
27	---	---	---	6.8	3.1	4.6	9.6	---	---	9.9	2.9	5.8
28	---	---	---	5.9	2.9	4.4	10.4	2.7	6.1	9.6	3.1	5.7
29	---	---	---	4.6	2.3	3.4	10.2	2.0	5.8	9.4	3.2	5.7
30	---	---	---	6.8	.4	2.9	9.6	2.0	5.5	9.3	3.4	5.7
31	---	---	---	5.6	.0	2.2	---	---	---	8.8	2.9	5.5
MONTH	---	---	---	---	---	---	---	---	---	10.5	2.0	5.3

09066510 GORE CREEK AT MOUTH NEAR MINTURN, CO--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.9	3.2	6.0	---	---	---	12.8	9.9	11.2	13.5	11.6	12.5
2	9.9	3.2	5.9	---	---	---	14.2	7.7	10.9	15.3	9.9	12.6
3	9.0	3.5	5.8	---	---	---	13.0	9.3	11.2	17.5	10.2	13.7
4	6.0	3.7	4.8	---	---	---	12.5	8.7	10.5	18.0	11.1	14.5
5	6.0	3.4	4.5	---	---	---	15.8	8.8	12.0	18.4	11.8	15.0
6	7.3	2.7	5.1	---	---	---	16.1	9.0	12.4	18.2	12.2	15.3
7	8.5	4.2	6.2	---	---	---	16.9	9.4	12.9	18.2	11.6	14.8
8	8.5	4.5	6.1	---	---	---	16.9	9.9	13.4	16.8	11.8	14.4
9	9.0	3.8	6.3	---	---	---	17.9	11.0	14.1	16.3	12.1	14.2
10	7.7	3.8	5.3	---	---	---	15.0	11.0	13.1	16.1	11.1	13.6
11	---	---	---	---	---	---	15.2	10.5	12.7	16.6	11.8	14.0
12	---	---	---	---	---	---	15.5	9.1	12.4	15.0	12.8	13.8
13	---	---	---	---	---	---	15.8	9.4	12.7	13.3	10.1	11.9
14	---	---	---	---	---	---	16.8	9.7	12.8	16.6	10.5	13.1
15	---	---	---	---	---	---	16.4	10.2	13.2	16.3	10.5	13.2
16	---	---	---	---	---	---	16.8	10.8	13.8	14.9	10.2	12.8
17	---	---	---	---	---	---	16.4	11.0	13.8	---	---	---
18	---	---	---	---	---	---	14.7	10.7	13.1	---	---	---
19	---	---	---	---	---	---	16.6	10.4	13.5	---	---	---
20	---	---	---	---	---	---	16.6	11.3	14.1	---	---	---
21	---	---	---	---	---	---	15.7	11.8	13.7	---	---	---
22	---	---	---	---	---	---	18.2	11.1	14.4	---	---	---
23	---	---	---	---	---	---	18.8	11.6	15.0	---	---	---
24	---	---	---	---	---	---	18.5	12.8	15.5	---	---	---
25	---	---	---	---	---	---	16.1	12.8	14.7	---	---	---
26	---	---	---	---	---	---	17.4	11.9	14.6	---	---	---
27	---	---	---	---	---	---	17.9	12.8	15.1	---	---	---
28	---	---	---	---	---	---	17.4	10.2	13.7	---	---	---
29	---	---	---	---	---	---	17.7	10.8	14.2	---	---	---
30	---	---	---	15.7	---	---	18.4	11.5	14.8	---	---	---
31	---	---	---	15.2	10.5	12.7	15.2	11.8	13.4	---	---	---
MONTH	---	---	---	---	---	---	18.8	7.7	13.3	---	---	---

09067000 BEAVER CREEK AT AVON, CO

LOCATION.--Lat 39°37'47", long 106°31'20", in NE¼SW¼ 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 mi^2.

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 good 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	6.1	4.0	3.5	2.7	e1.9	3.6	17	74	55	28	10
2	7.6	6.2	e4.0	3.5	2.7	2.1	3.7	19	78	51	23	9.7
3	10	6.3	e4.0	3.6	2.7	2.1	3.6	24	78	50	20	6.8
4	8.7	6.1	e4.0	3.5	2.7	2.2	4.0	27	76	49	18	5.7
5	8.0	6.0	e4.1	3.5	2.8	2.2	4.4	26	66	47	20	4.9
6	7.6	e5.9	e4.3	3.5	2.8	2.3	4.1	23	57	46	17	4.8
7	7.7	e5.8	e4.6	e3.0	2.7	2.2	3.9	21	52	44	16	4.4
8	9.3	e5.7	4.5	3.3	2.5	e2.0	3.9	19	50	42	15	4.4
9	8.7	e5.9	4.3	e3.1	2.6	1.8	3.8	21	47	39	14	4.8
10	8.9	e5.8	4.3	e3.2	2.5	1.7	3.7	24	47	40	16	4.5
11	9.0	e6.0	e3.8	3.3	e2.3	1.7	4.6	27	46	40	14	4.9
12	10	e6.1	e3.4	3.3	2.5	1.9	5.1	27	44	35	13	4.9
13	8.8	e5.7	e3.6	3.3	e2.3	2.0	4.8	31	46	32	12	6.8
14	9.3	e5.7	e3.8	e3.2	2.4	2.3	4.6	35	46	29	10	5.8
15	8.9	e4.5	e3.8	e3.1	2.3	2.6	4.1	27	46	26	11	4.2
16	8.6	e4.7	e3.7	3.3	e2.3	2.7	4.1	26	44	23	10	4.0
17	9.0	e5.0	e3.6	3.2	2.3	2.8	4.2	32	45	22	9.5	3.5
18	8.5	4.5	3.9	3.1	2.3	2.8	4.4	37	44	20	11	3.6
19	8.3	5.1	4.1	e3.1	2.3	2.5	4.0	42	43	19	11	3.3
20	8.4	5.3	3.9	e3.1	e2.3	e2.3	4.2	49	47	18	9.5	3.4
21	8.4	5.0	3.9	e2.9	2.3	e2.4	4.3	59	51	17	9.4	2.9
22	8.1	5.0	3.7	e2.8	2.3	2.8	5.3	59	54	18	9.7	2.5
23	8.5	e4.8	3.6	2.9	2.3	4.0	7.1	50	57	23	8.0	2.7
24	9.2	e4.7	3.6	2.9	2.4	5.0	9.0	46	56	32	7.9	2.9
25	7.5	4.5	3.6	2.9	2.3	5.8	9.6	43	53	34	8.3	3.0
26	7.9	4.6	e3.4	2.9	2.3	5.9	7.8	47	55	26	9.2	2.3
27	7.7	4.5	e3.3	2.9	e2.2	6.0	8.0	53	59	21	9.7	2.5
28	7.8	4.4	e3.5	2.7	e2.0	5.2	9.5	62	59	22	8.8	2.4
29	8.0	e4.2	e3.6	2.7	---	4.5	11	69	59	25	7.7	2.5
30	8.1	e4.1	3.6	2.7	---	3.7	14	75	58	21	7.2	2.6
31	7.0	---	3.6	2.7	---	3.9	---	73	---	23	6.9	---
TOTAL	261.1	158.2	119.1	96.7	68.1	93.3	168.4	1190	1637	989	390.8	130.7
MEAN	8.42	5.27	3.84	3.12	2.43	3.01	5.61	38.4	54.6	31.9	12.6	4.36
MAX	10	6.3	4.6	3.6	2.8	6.0	14	75	78	55	28	10
MIN	7.0	4.1	3.3	2.7	2.0	1.7	3.6	17	43	17	6.9	2.3
AC-FT	518	314	236	192	135	185	334	2360	3250	1960	775	259

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1998, BY WATER YEAR (WY)

MEAN	4.45	3.61	2.98	2.52	2.38	2.97	6.15	28.4	64.0	30.7	10.1	5.77
MAX	8.42	5.78	5.01	4.17	3.99	4.71	11.2	51.7	114	79.5	25.6	10.6
(WY)	1998	1997	1984	1986	1986	1997	1996	1974	1983	1983	1984	1984
MIN	2.28	2.07	1.65	1.44	1.51	1.49	2.48	11.5	22.6	4.81	2.34	1.41
(WY)	1981	1980	1995	1981	1977	1977	1975	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1974 - 1998	
ANNUAL TOTAL	7367.9		5302.4			
ANNUAL MEAN	20.2		14.5		13.7	
HIGHEST ANNUAL MEAN					22.7	1984
LOWEST ANNUAL MEAN					4.94	1977
HIGHEST DAILY MEAN	129	Jun 2	a78	Jun 2	242	Jun 27 1983
LOWEST DAILY MEAN	e2.4	Jan 7	b1.7	Mar 10	.55	Sep 10 1977
ANNUAL SEVEN-DAY MINIMUM	2.7	Jan 6	1.9	Mar 7	.75	Sep 5 1977
INSTANTANEOUS PEAK FLOW			85	Jun 1	249	Jun 27 1983
INSTANTANEOUS PEAK STAGE			c2.70	Jun 1	3.46	Jun 27 1983
ANNUAL RUNOFF (AC-FT)	14610		10520		9900	
10 PERCENT EXCEEDS	66		46		41	
50 PERCENT EXCEEDS	8.1		5.7		4.4	
90 PERCENT EXCEEDS	3.3		2.5		2.0	

e-Estimated.
a-Also occurred Jun 3.
b-Also occurred Mar 11.
c-Maximum gage height, 3.03 ft, Dec 12, backwater from ice.

09067005 EAGLE RIVER AT AVON, CO

LOCATION.--Lat 39°37'54", long 106°31'19", in SE¼NW¼ 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 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1988 to current year.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 7,410 ft above sea level, from topographic map.

REMARKS.--Records fair except for 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	116	79	e61	e57	e47	77	369	1680	1440	580	199
2	147	112	74	e63	e56	e53	87	378	1920	1240	515	247
3	181	99	71	e66	e58	e54	80	468	2040	1120	387	202
4	184	112	63	e64	e59	51	88	604	1780	992	406	174
5	157	105	67	e60	e61	50	95	643	1400	919	372	155
6	141	104	83	e60	e61	51	98	572	1180	910	303	146
7	136	103	83	e49	e60	48	92	497	1030	882	275	137
8	156	102	81	e51	e59	46	88	448	926	862	255	129
9	149	105	73	e50	e59	48	83	475	868	872	239	134
10	155	96	64	e54	e57	44	83	521	873	977	251	131
11	154	106	e59	e62	e53	47	100	684	846	996	250	124
12	167	107	e47	e60	e57	49	130	642	839	783	248	130
13	153	99	e46	e58	e56	51	131	743	941	642	227	160
14	157	91	e49	e57	e59	53	125	910	857	547	215	151
15	171	59	e49	e56	e58	55	108	727	837	495	211	128
16	170	82	e60	e61	e59	61	100	620	788	444	205	134
17	171	122	e58	e61	e58	62	95	734	797	428	193	134
18	168	104	e62	e61	e58	59	96	947	780	405	209	123
19	170	95	e64	e61	57	56	88	1100	758	382	217	116
20	164	93	e60	e62	49	56	94	1260	936	359	196	109
21	160	87	e57	e56	e53	57	98	1480	1050	338	187	102
22	152	87	e64	e50	55	63	120	1360	1170	368	205	99
23	145	85	e60	e61	56	72	166	1020	1280	437	184	94
24	148	84	e55	e62	59	84	245	923	1210	620	172	91
25	130	84	e51	e63	56	105	275	810	1130	624	165	84
26	129	85	e50	e60	55	117	225	1010	1230	564	250	78
27	128	87	e43	e58	e53	119	207	1190	1330	422	230	75
28	137	84	e50	e59	e47	102	215	1470	1460	377	217	73
29	131	77	e56	e58	---	91	242	1700	1460	524	184	74
30	132	76	e65	e56	---	80	302	1830	1450	433	169	79
31	127	---	e64	e58	---	82	---	1680	---	371	152	---
TOTAL	4728	2848	1907	1818	1585	2013	4033	27815	34846	20773	7869	3812
MEAN	153	94.9	61.5	58.6	56.6	64.9	134	897	1162	670	254	127
MAX	184	122	83	66	61	119	302	1830	2040	1440	580	247
MIN	127	59	43	49	47	44	77	369	758	338	152	73
AC-FT	9380	5650	3780	3610	3140	3990	8000	55170	69120	41200	15610	7560

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1998, BY WATER YEAR (WY)

MEAN	109	80.9	63.2	58.4	55.5	71.7	222	1185	1673	723	244	141
MAX	169	115	88.5	85.5	79.8	117	365	1856	2725	1938	541	200
(WY)	1996	1996	1996	1996	1996	1996	1996	1996	1997	1995	1995	1997
MIN	67.5	47.6	43.6	38.3	39.2	47.6	124	577	936	230	106	94.0
(WY)	1989	1990	1990	1992	1992	1991	1991	1995	1992	1994	1994	1990

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1989 - 1998	
ANNUAL TOTAL	196187		114047			
ANNUAL MEAN	537		312		387	
HIGHEST ANNUAL MEAN					542	1993
LOWEST ANNUAL MEAN					276	1994
HIGHEST DAILY MEAN	e3800	Jun 5	2040	Jun 3	e3800	Jun 5 1997
LOWEST DAILY MEAN	e43	Dec 27	e43	Dec 27	a32	Nov 29 1989
ANNUAL SEVEN-DAY MINIMUM	52	Dec 23	48	Mar 6	35	Jan 4 1992
INSTANTANEOUS PEAK FLOW			2260	Jun 3	b3930	Jun 6 1997
INSTANTANEOUS PEAK STAGE			3.99	Jun 3	b,c4.03	Jun 6 1997
ANNUAL RUNOFF (AC-FT)	389100		226200		280000	
10 PERCENT EXCEEDS	1980		938		1240	
50 PERCENT EXCEEDS	173		123		109	
90 PERCENT EXCEEDS	64		56		50	

e-Estimated.
a-Also occurred Jan 5-6, 1990.
b-May have been higher during period of indefinite stage-discharge relationship, Jun 4-5, 1997.
c-Maximum gage height, 5.14 ft, May 31, 1993.

09067005 EAGLE RIVER AT AVON, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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 WHOLE TOTAL UREASE (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												
27...	1530	116	295	8.3	2.7	11.2	K1	<1	140	37	11	6.5
JAN												
13...	1530	56	405	8.3	0.6	11.8	14	K6	--	--	--	--
MAY												
13...	1600	740	161	8.0	9.7	8.9	K7	K2	72	20	5.3	3.1
JUN												
10...	1540	885	138	8.2	8.8	8.8	K6	<1	63	18	4.4	2.2
JUL												
27...	1519	414	156	8.2	16.5	7.1	28	K4	--	--	--	--
AUG												
17...	1500	192	227	8.3	15.8	7.6	22	16	100	29	7.1	4.8

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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
OCT												
27...	0.2	0.8	94	77	--	65	3.8	<0.1	6.0	181	0.25	56.8
JAN												
13...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
13...	0.2	0.7	--	--	61	17	2.8	<0.1	5.6	91	0.12	183
JUN												
10...	.1	0.6	63	52	--	13	1.9	<0.1	5.0	76	0.10	182
JUL												
27...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
17...	0.2	0.9	--	--	71	38	3.2	<0.1	5.1	131	0.18	68.1

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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT								
27...	<0.01	0.26	<0.01	<0.2	<0.2	<0.01	<0.01	<0.01
JAN								
13...	0.01	0.60	<0.02	<0.1	<0.1	0.04	0.03	--
MAY								
13...	0.01	0.17	<0.02	0.2	0.2	0.01	<0.01	0.01
JUN								
10...	0.01	0.09	0.02	0.1	0.1	0.09	0.01	0.01
JUL								
27...	<0.01	0.07	<0.02	0.1	<0.1	0.01	<0.01	0.01
AUG								
17...	0.01	0.15	0.02	0.1	<0.1	0.02	<0.01	0.03

K-Based on non-ideal colony count.

09067005 EAGLE RIVER AT AVON, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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										
07...	<1	<1	440	<1	320	340	<0.1	<1	<0.2	170
MAR										
10...	<1	1	340	<1	320	320	<0.1	<1	<0.2	110
MAY										
20...	<1	2	860	<1	180	24	<0.1	<1	<0.2	32
AUG										
18...	<1	<1	490	<1	90	74	<0.1	<1	<0.2	26

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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				
07...	1520	146	269	12.5
NOV				
18...	1455	100	325	0.0
JAN				
06...	1520	61	401	0.5
FEB				
18...	1515	60	398	2.0
APR				
07...	1155	93	379	4.0
JUN				
02...	1550	1680	105	9.5
JUL				
07...	1405	849	110	12.0

09067200 LAKE CREEK NEAR EDWARDS, CO

LOCATION.--Lat 39°38'51", long 106°36'31", in SE¼NE¼ 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 mi^2.

PERIOD OF RECORD.--October 1993 to current year. Published as 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	36	20	16	14	e11	16	37	230	257	129	36
2	46	35	19	16	13	e12	17	40	281	232	108	44
3	61	33	e17	16	14	13	17	44	282	219	86	38
4	58	34	e15	16	14	13	17	52	228	205	85	35
5	51	33	e14	15	14	12	18	58	146	184	88	33
6	47	32	e17	15	14	13	18	57	110	199	75	31
7	45	31	e19	e13	14	13	17	53	96	177	69	30
8	48	31	e20	e14	14	13	16	50	94	174	64	28
9	45	31	e20	e13	14	13	16	48	88	207	59	29
10	44	30	e19	15	13	13	17	49	101	210	60	27
11	45	31	e17	15	14	13	19	60	106	233	59	28
12	48	31	e13	14	14	13	20	60	102	175	59	31
13	47	29	e13	14	14	13	19	66	130	146	53	40
14	46	25	e14	14	14	13	19	76	107	125	49	38
15	46	e22	e14	e13	13	14	18	65	95	112	46	35
16	46	e20	e17	14	13	14	19	58	89	102	44	32
17	45	e26	e16	14	13	14	18	65	98	98	43	e33
18	45	28	18	14	13	14	19	78	90	93	46	e31
19	44	27	18	15	13	14	18	100	87	91	46	e29
20	43	27	17	15	13	14	19	124	135	85	42	e27
21	42	26	e15	e14	13	14	19	169	171	83	41	e25
22	41	24	17	e13	13	14	21	162	201	93	41	e24
23	42	e23	17	15	13	16	24	109	239	121	40	e23
24	43	24	17	15	13	19	28	97	220	174	38	e22
25	40	22	16	14	13	21	32	85	202	189	35	e21
26	39	22	15	14	e12	21	30	111	254	167	39	e20
27	40	23	e13	14	e12	21	29	141	284	117	39	e19
28	40	22	16	14	e11	19	29	192	296	101	38	e19
29	40	21	16	14	---	18	30	246	290	125	34	e19
30	38	21	16	14	---	17	32	260	275	103	32	e19
31	38	---	16	14	---	17	---	232	---	92	31	---
TOTAL	1390	820	511	446	372	459	631	3044	5127	4689	1718	866
MEAN	44.8	27.3	16.5	14.4	13.3	14.8	21.0	98.2	171	151	55.4	28.9
MAX	61	36	20	16	14	21	32	260	296	257	129	44
MIN	38	20	13	13	11	11	16	37	87	83	31	19
AC-FT	2760	1630	1010	885	738	910	1250	6040	10170	9300	3410	1720

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1998, BY WATER YEAR (WY)

MEAN	33.4	23.5	15.1	12.9	11.6	12.9	22.8	120	284	156	68.2	35.9
MAX	44.8	28.4	19.0	16.0	13.3	14.9	29.6	165	418	293	125	56.0
(WY)	1998	1996	1996	1997	1998	1997	1996	1996	1997	1995	1995	1997
MIN	26.1	16.8	10.8	9.43	9.26	10.6	15.4	43.8	171	44.3	24.5	23.5
(WY)	1994	1995	1994	1995	1994	1994	1995	1995	1998	1994	1994	1994

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1994 - 1998	
ANNUAL TOTAL	32209		20073			
ANNUAL MEAN	88.2		55.0		66.5	
HIGHEST ANNUAL MEAN					87.3	1997
LOWEST ANNUAL MEAN					45.5	1994
HIGHEST DAILY MEAN	587	Jun 5	296	Jun 28	845	Jun 16 1995
LOWEST DAILY MEAN	e,a10	Feb 22	e,b11	Feb 28	7.0	Feb 1 1994
ANNUAL SEVEN-DAY MINIMUM	11	Feb 26	12	Feb 24	8.0	Jan 29 1994
INSTANTANEOUS PEAK FLOW			406	Jun 28	1290	Jun 16 1995
INSTANTANEOUS PEAK STAGE			c2.70	Jun 28	3.63	Jun 16 1995
ANNUAL RUNOFF (AC-FT)	63890		39810		48180	
10 PERCENT EXCEEDS	248		146		202	
50 PERCENT EXCEEDS	37		30		26	
90 PERCENT EXCEEDS	13		13		11	

e-Estimated.
a-Also occurred Mar 1, 3-4 (these days were not estimated).
b-Also occurred Mar 1.
c-Maximum gage height, 2.82 ft, Jun 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 mi^2, at gaging station.

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1947 to March 31, 1995 (discontinued).
WATER TEMPERATURE: April 1949 to March 31, 1995 (discontinued).

REMARKS.--Records of discharge are given for Eagle River below Gypsum (station 09070000), located 550 ft downstream from Eagle River at Gypsum (station 09069000).

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 2,200 microsiemens March 9, 1990; minimum daily, 130 microsiemens June 9-10, 1976.
WATER TEMPERATURE: Maximum daily, 24°C August 24, 1949, several days in August 1988, and July 27, 1990; minimum daily, 0.0°C on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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 WHOLE TOTAL UREASE (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												
27...	1300	340	760	8.8	4.5	12.3	K4	<1	290	87	17	49
JAN												
13...	1200	220	923	8.4	0.5	11.5	<1	<1	--	--	--	--
MAY												
13...	1200	1000	327	8.2	11.5	8.9	27	15	140	41	9.1	12
JUN												
11...	1015	1150	325	8.3	9.5	9.4	K45	K30	130	38	7.6	13
JUL												
27...	1145	758	493	8.2	16.5	7.5	120	75	--	--	--	--
AUG												
17...	1115	375	801	8.3	18.0	8.0	39	30	260	80	15	54

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 TOT IT FIELD MG/L AS CACO3 (39086)	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
OCT											
27...	1	2.0	129	6	116	--	170	78	0.1	7.2	485
JAN											
13...	--	--	--	--	--	--	--	--	--	--	--
MAY											
13...	0.5	1.1	--	--	--	90	56	14	0.1	6.4	195
JUN											
11...	0.5	1.0	90	--	74	--	53	16	<0.1	5.4	179
JUL											
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
17...	1	2.6	--	--	--	121	150	82	0.1	7.3	469

K-Based on non-ideal colony count.

09069000 EAGLE RIVER AT GYPSUM, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT											
27...	0.66	446	2	0.04	0.52	<0.02	<0.2	<0.2	0.01	<0.01	0.02
JAN											
13...	--	--	--	0.03	0.92	0.15	0.4	0.3	0.08	0.06	0.07
MAY											
13...	0.26	526	95	0.01	0.16	0.03	0.5	0.2	0.13	<0.01	<0.01
JUN											
11...	0.24	555	9	<0.01	0.07	<0.02	0.2	0.1	<0.01	<0.01	<0.01
JUL											
27...	--	--	--	0.01	0.25	0.03	0.4	0.1	0.18	<0.01	0.02
AUG											
17...	0.64	475	10	0.02	0.42	0.05	0.2	0.1	0.03	0.03	0.02

DATE	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 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)
OCT									
27...	<1	<1	<1	47	<0.5	<1	<1	<1	<1
MAY									
13...	<1	<1	<1	47	<1.0	<1	<1	2	<1
JUN									
11...	<1	<1	<1	43	<1.0	<1	<1	<1	<1.
AUG									
17...	<1	<1	<1	53	<1.0	<1	<1	<1	<1

DATE	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)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)
OCT								
27...	<1	<1	30	<1	<1	38	<0.1	<0.1
MAY								
13...	5	2	34	5	<1	32	<0.1	<0.1
JUN								
11...	1	<1	34	<1	<1	18	<0.1	<0.1
AUG								
17...	2	1	21	<1	<1	17	<0.1	<0.1

DATE	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								
27...	<1	<1	<1	<1	<1	<1	20	19
MAY								
13...	4	<1	<1	<1	<1	<1	100	<20
JUN								
11...	1	<1	<1	<1	<1	<1	20	<20
AUG								
17...	<1	2	<1	<1	<1	<1	20	<20

09070000 EAGLE RIVER BELOW GYPSUM, CO

LOCATION.--Lat 39°38'58", long 106°57'11", in SW¼NW¼ sec.5, T.5 S., R.85 W., Eagle County, Hydrologic Unit 14010003, on right bank 30 ft downstream from bridge on U.S. Highways 6 and 24 at Gypsum and 150 ft downstream from Gypsum Creek.

DRAINAGE AREA.--944 mi^2.

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

REVISED RECORDS.--WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,275.11 ft, above sea level.

REMARKS.--Records good except for estimated daily discharges, which are fair. Transmountain diversions upstream from station, see elsewhere in this report. Transbasin diversions upstream from station from Robinson Reservoir, capacity, 2,520 acre-ft, to Tenmile Creek for mining development. Many small diversions for irrigation of hay meadows 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	364	328	270	230	209	174	232	598	2050	1820	827	313
2	353	313	271	239	198	204	239	633	2270	1620	862	399
3	414	301	269	255	207	209	236	709	2390	1500	677	357
4	441	308	221	244	211	208	233	864	2260	1370	690	316
5	397	304	208	228	222	195	245	954	1830	1290	661	303
6	362	304	248	223	219	199	252	943	1510	1250	590	289
7	345	302	253	e182	217	203	247	870	1300	1260	528	274
8	377	294	269	193	212	186	242	794	1200	1170	492	260
9	e340	304	265	e185	209	194	235	803	1110	1170	469	255
10	e350	299	258	208	205	192	222	813	1120	1260	468	259
11	352	310	220	237	188	192	231	977	1130	1380	478	256
12	386	322	169	227	207	198	273	953	1080	1140	460	278
13	378	304	167	218	200	212	296	976	1210	956	439	309
14	386	287	182	216	215	228	296	1160	1160	828	404	316
15	394	224	182	198	210	244	284	1070	1150	750	387	293
16	392	204	229	220	212	254	284	931	1070	682	378	276
17	384	281	214	221	210	259	269	977	1070	652	365	283
18	377	299	234	221	206	256	273	1130	1070	626	386	264
19	381	288	241	218	204	218	264	1300	1000	602	400	245
20	373	298	221	224	195	209	259	1450	1180	560	371	236
21	368	289	207	198	202	213	264	1740	1340	521	357	229
22	360	283	245	176	210	239	280	1810	1480	544	379	217
23	357	262	220	220	213	291	316	1450	1640	662	366	213
24	377	276	201	223	216	313	395	1340	1580	905	341	208
25	359	276	189	229	224	341	495	1200	1420	1010	323	202
26	339	282	188	214	201	346	469	1310	1540	942	361	197
27	337	301	156	207	196	332	420	1460	1680	759	382	197
28	358	288	192	211	175	312	421	1730	1820	640	372	193
29	352	275	221	206	---	285	441	1970	1850	824	333	194
30	348	265	250	203	---	249	503	2190	1820	760	312	197
31	333	---	238	213	---	245	---	2120	---	645	296	---
TOTAL	11434	8671	6898	6687	5793	7400	9116	37225	44330	30098	14154	7828
MEAN	369	289	223	216	207	239	304	1201	1478	971	457	261
MAX	441	328	271	255	224	346	503	2190	2390	1820	862	399
MIN	333	204	156	176	175	174	222	598	1000	521	296	193
AC-FT	22680	17200	13680	13260	11490	14680	18080	73840	87930	59700	28070	15530

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1998, BY WATER YEAR (WY)

MEAN	262	242	199	182	175	190	351	1340	2319	1031	388	270
MAX	526	382	277	243	252	297	862	2722	4134	2989	1096	625
(WY)	1962	1985	1985	1984	1986	1986	1962	1984	1984	1957	1984	1984
MIN	129	169	150	139	125	138	183	528	742	251	150	141
(WY)	1957	1990	1992	1990	1992	1965	1983	1977	1954	1977	1977	1956

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1947 - 1998	
ANNUAL TOTAL	292039		189634			
ANNUAL MEAN	800		520		580	
HIGHEST ANNUAL MEAN					1082	1984
LOWEST ANNUAL MEAN					264	1977
HIGHEST DAILY MEAN	5270	Jun 5	2390	Jun 3	6580	May 25 1984
LOWEST DAILY MEAN	156	Dec 27	156	Dec 27	78	Dec 10 1994
ANNUAL SEVEN-DAY MINIMUM	195	Dec 11	194	Feb 27	99	Aug 29 1990
INSTANTANEOUS PEAK FLOW			2680	Jun 3	7020	May 25 1984
INSTANTANEOUS PEAK STAGE			6.69	Jun 3	9.46	May 25 1984
ANNUAL RUNOFF (AC-FT)	579300		376100		420100	
10 PERCENT EXCEEDS	2550		1260		1580	
50 PERCENT EXCEEDS	353		302		244	
90 PERCENT EXCEEDS	212		202		159	

e-Estimated.

09070500 COLORADO RIVER NEAR DOTSERO, CO

LOCATION.--Lat 39°38'38", long 107°04'38", in NW¼SE¼ 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.

DRAINAGE AREA.--4,394 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gages. Elevation of gage is 6,130 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, diversions for irrigation of 68,000 acres upstream from station, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1620	1530	1070	e1220	e1220	1140	1620	3030	7170	3690	2740	1460
2	1600	1440	e1120	e1240	e1210	1250	1650	3060	6980	3730	2790	1580
3	1690	1390	e1130	e1280	e1220	1230	1850	3340	6290	3730	2500	1540
4	1710	1380	e1030	e1260	e1230	1200	1870	3740	5740	3510	2520	1440
5	1730	1360	e950	e1230	1240	1160	1940	4030	5190	3210	2550	1400
6	1680	1380	e1110	e1200	1260	1180	1980	4010	4750	3040	2490	1360
7	1700	1360	e1210	e1140	1250	1180	1900	3930	4110	2900	2390	1360
8	1740	1260	e1230	e1130	1240	1130	1780	3970	3770	2580	2190	1320
9	1780	1260	e1240	e1140	1240	1160	1760	4190	3540	2490	1990	1320
10	1740	1230	e1250	e1190	1220	1150	1740	4230	3380	2710	1990	1320
11	1730	1270	e1140	e1240	1170	1200	1770	4660	3280	2780	2030	1370
12	1810	1300	e950	e1230	1200	1200	1980	4620	3170	2610	1900	1540
13	1810	1280	e930	e1220	1210	1210	2010	4620	3240	2310	1680	1590
14	1840	1210	e990	e1180	1240	1240	1960	4800	3200	2060	1650	1610
15	1850	994	e1080	e1160	1260	1290	1890	4640	3230	2000	1610	1570
16	1830	886	e1160	e1220	1260	1350	1870	4180	3050	1780	1600	1560
17	1800	1030	e1210	e1230	1260	1440	1830	4060	2970	1820	1570	1520
18	1730	1210	e1230	e1220	1240	1520	1800	4210	2930	1830	1590	1450
19	1760	1190	e1220	e1210	1220	1400	1800	4610	2820	1840	1670	1420
20	1640	1190	e1190	e1230	1190	1320	1790	4990	2880	1760	1580	1420
21	1500	1170	e1140	e1130	1210	1330	1810	5450	3010	1630	1560	1450
22	1450	1150	e1170	e1110	1220	1410	1860	5670	3240	1530	1590	1430
23	1440	1090	e1130	e1170	1230	1650	1850	4960	3570	1810	1570	1450
24	1490	1100	e1120	e1220	1250	1940	2120	4530	3420	2120	1490	1480
25	1500	1120	e1100	e1230	1270	2340	2530	4190	3170	2330	1350	1490
26	1430	1130	e1070	e1210	1210	2500	2470	4230	3260	2350	1290	1470
27	1400	1180	e1040	e1200	1190	2330	2330	4550	3390	2100	1380	1460
28	1460	1180	e1030	e1210	1190	2190	2340	5250	3470	2000	1660	1450
29	1540	1120	e1130	e1200	---	2040	2430	6140	3450	2310	1580	1410
30	1540	1070	e1240	e1220	---	1820	2690	6840	3720	2390	1510	1350
31	1540	---	e1230	e1230	---	1720	---	7120	---	2560	1430	---
TOTAL	51080	36460	34840	37300	34350	46220	59220	141850	115390	75510	57440	43590
MEAN	1648	1215	1124	1203	1227	1491	1974	4576	3846	2436	1853	1453
MAX	1850	1530	1250	1280	1270	2500	2690	7120	7170	3730	2790	1610
MIN	1400	886	930	1110	1170	1130	1620	3030	2820	1530	1290	1320
AC-FT	101300	72320	69110	73980	68130	91680	117500	281400	228900	149800	113900	86460

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1998, BY WATER YEAR (WY)

MEAN	1200	1086	955	910	923	1053	1890	4892	6461	3186	1724	1294
MAX	2038	1664	1503	1473	1603	1961	5601	10770	13440	9354	4055	2616
(WY)	1963	1963	1985	1985	1962	1962	1962	1984	1984	1983	1984	1984
MIN	759	677	521	504	529	610	1039	1436	1373	1021	1050	737
(WY)	1943	1978	1943	1941	1943	1964	1964	1977	1954	1963	1958	1942

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1941 - 1998	
ANNUAL TOTAL	1194870		733250			
ANNUAL MEAN	3274		2009		2134	
HIGHEST ANNUAL MEAN					4173	1984
LOWEST ANNUAL MEAN					1117	1977
HIGHEST DAILY MEAN	15600	Jun 6	7170	Jun 1	20800	May 25 1984
LOWEST DAILY MEAN	886	Nov 16	886	Nov 16	a350	Jan 5 1944
ANNUAL SEVEN-DAY MINIMUM	1070	Dec 11	1070	Dec 11	417	Jan 13 1944
INSTANTANEOUS PEAK FLOW			7550	Jun 2	22200	May 25 1984
INSTANTANEOUS PEAK STAGE			7.32	Jun 2	14.20	May 25 1984
ANNUAL RUNOFF (AC-FT)	2370000		1454000		1546000	
10 PERCENT EXCEEDS	9820		3730		5000	
50 PERCENT EXCEEDS	1780		1540		1260	
90 PERCENT EXCEEDS	1110		1150		760	

e-Estimated.
a-Also occurred Jan 1, 1995.

09070500 COLORADO RIVER NEAR DOTSERO, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1962 to September 1984. October 1995 to September 1998 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: February 1980 to September 1984.
WATER TEMPERATURE: February 1980 to September 1984. October 1996 to September 1998 (discontinued).

INSTRUMENTATION.--Water-quality monitor February 1980 to September 1984. Water-temperature sensor and logger October 1996 to September 1998 (discontinued).

REMARKS.--Upper Colorado River Basin National Water Quality Assessment Program station (NAWQA). Daily water temperature data are good. Data not published are missing.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,410 microsiemens, Sept. 12, 1981; minimum recorded, 145 microsiemens, June 1, 1984.
WATER TEMPERATURE: Maximum, 24.0°C, Aug. 4, 1981; minimum, 0.0°C on many days during winters.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 22.3°C, July 20; minimum, not determined.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT												
29...	1355	1570	495	8.5	5.5	10.1	190	55	13	26	0.8	1.8
NOV												
25...	1310	1140	496	8.5	1.5	11.2	180	55	12	26	0.8	2.0
DEC												
17...	1505	e1230	420	8.2	0.0	13.2	150	44	9.0	22	0.8	1.8
JAN												
22...	1430	e1110	453	7.5	0.0	11.7	150	46	9.2	26	0.9	1.9
FEB												
19...	0735	1220	420	8.2	1.5	10.9	140	43	9.0	23	0.8	1.8
MAR												
18...	1100	1530	--	8.0	4.0	10.5	150	44	9.0	23	0.8	2.7
24...	0820	1860	443	8.2	6.5	9.1	160	50	9.4	21	0.7	2.8
APR												
22...	1355	1900	382	8.6	10.0	10.4	130	39	8.5	19	0.7	1.7
MAY												
07...	1000	3960	276	8.1	8.5	8.9	110	32	7.1	11	0.4	1.3
20...	0950	5200	316	8.1	10.0	8.7	120	35	8.9	12	0.5	1.4
JUN												
01...	1220	7530	235	8.2	12.0	8.4	95	28	6.1	8.1	0.4	1.3
11...	1200	3350	338	8.1	12.0	9.0	130	38	8.4	16	0.6	1.5
17...	0900	3000	366	8.3	11.0	8.5	130	39	8.5	17	0.6	1.6
JUL												
24...	1240	2140	528	8.1	18.0	7.4	190	60	10	28	0.9	2.6
AUG												
12...	1000	1960	428	8.4	16.0	8.0	150	47	8.7	23	0.8	2.2
SEP												
16...	1535	1500	480	8.4	17.5	7.7	170	49	10	26	0.9	2.2

e-Estimated.

09070500 COLORADO RIVER NEAR DOTSERO, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
OCT												
29...	123	--	101	96	28	0.2	10	309	291	0.42	1310	<0.01
NOV												
25...	117	6	106	88	34	0.3	10	304	292	0.41	936	<0.01
DEC												
17...	118	--	97	70	27	0.2	8.9	253	241	0.34	e840	<0.01
JAN												
22...	108	--	88	75	35	0.3	9.0	278	255	0.38	e833	0.02
FEB												
19...	106	--	87	69	31	0.3	8.2	256	238	0.35	843	<0.01
MAR												
18...	103	--	84	71	27	0.2	8.3	257	236	0.35	1060	<0.01
24...	109	--	89	84	24	0.3	9.1	270	256	0.37	1360	<0.01
APR												
22...	99	2	85	60	21	0.3	7.5	228	208	0.31	1160	<0.01
MAY												
07...	93	--	76	36	9.4	0.2	9.4	177	152	0.24	1890	<0.01
20...	100	--	82	55	7.0	0.2	8.8	200	178	0.27	2810	0.01
JUN												
01...	79	--	65	34	6.1	0.2	8.1	146	131	0.20	2970	0.02
11...	110	--	90	50	14	0.1	8.8	201	190	0.27	1820	<0.01
17...	115	1	96	55	16	0.1	8.2	223	202	0.30	1810	<0.01
JUL												
24...	118	--	97	100	35	0.2	8.6	336	304	0.46	1940	0.01
AUG												
12...	107	4	94	72	27	0.3	8.2	267	245	0.36	1410	<0.01
SEP												
16...	110	4	96	89	29	0.3	7.6	295	272	0.40	1220	<0.01

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	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 DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
OCT											
29...	0.06	<0.01	<0.2	<0.2	<0.01	0.01	<0.01	3.3	0.2	27	14
NOV											
25...	0.14	<0.02	<0.1	<0.1	<0.01	0.01	0.04	2.0	0.2	16	15
DEC											
17...	0.15	<0.02	0.1	0.1	0.03	<0.01	0.01	1.8	<0.2	13	19
JAN											
22...	0.20	<0.02	0.1	<0.1	<0.01	<0.01	0.01	2.0	0.2	12	18
FEB											
19...	0.13	<0.02	0.2	0.1	0.01	0.01	0.02	2.0	0.3	<10	16
MAR											
18...	0.16	0.07	0.4	0.3	0.07	<0.01	<0.01	3.1	1.3	13	25
24...	0.17	0.06	1.0	0.3	0.32	0.03	0.01	4.1	6.4	14	25
APR											
22...	0.15	0.04	0.2	<0.1	0.04	0.02	0.01	2.9	0.4	19	14
MAY											
07...	0.12	0.03	0.6	0.2	0.12	<0.01	0.01	4.4	1.4	34	13
20...	0.10	0.05	0.7	0.3	0.21	<0.01	0.01	4.7	2.9	25	15
JUN											
01...	0.13	0.06	0.6	0.1	0.11	<0.01	0.01	3.4	1.0	26	12
11...	<0.05	0.02	0.2	0.2	<0.01	0.01	<0.01	3.6	0.4	30	11
17...	<0.05	0.04	0.2	0.2	<0.01	<0.01	0.01	3.3	0.6	34	8
JUL											
24...	0.17	0.04	2.3	0.2	1.0	0.04	0.03	3.1	15	<10	6
AUG											
12...	0.09	0.06	0.3	0.1	0.03	0.01	<0.01	2.2	0.7	12	9
SEP											
16...	0.14	0.03	0.7	0.2	0.17	<0.05	0.01	2.7	3.8	<10	7

e-Estimated

09070500 COLORADO RIVER NEAR DOTSERO, CO--Continued

(National Water-Quality Assessment Program station)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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				
08...	1135	1750	506	10.5
NOV				
19...	1235	1110	537	1.5
JAN				
07...	1250	1160	396	0.0
FEB				
17...	1315	1280	454	4.0
APR				
06...	1240	2010	410	8.0
JUN				
03...	1240	6290	217	10.5
JUL				
08...	0945	2650	345	14.5
AUG				
20...	0840	1600	474	17.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT,[a] SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 0.062 MM (70331)	SAMPLER[b] TYPE (CODE) (84164)
OCT						
29...	1300	1570	13	55	--	3009
29...	1355	1570	9	38	--	3039
NOV						
25...	1245	1130	5	15	--	3009
25...	1310	1140	3	9.2	--	3039
DEC						
17...	1440	e1230	10	e33	--	3009
17...	1505	e1230	15	350	--	3039
JAN						
22...	1430	e1110	10	e30	--	3045
22...	1445	e1110	10	e30	--	3044
FEB						
19...	0735	1220	8	26	--	3045
19...	0755	1220	6	20	--	3044
MAR						
18...	1100	1530	48	198	--	3045
18...	1120	1520	53	218	94	3044
24...	0820	1860	454	2280	98	3045
24...	0840	1850	504	2520	98	3044
APR						
22...	1340	1890	26	133	--	3009
22...	1355	1890	22	112	--	3039
MAY						
07...	0910	3960	136	1450	76	3009
07...	1000	3960	124	1330	75	3039
07...	1010	3960	127	1360	75	3039
20...	0920	5210	238	3350	73	3009
20...	0950	5200	181	2540	58	3039
JUN						
01...	1200	7530	253	5140	36	3009
01...	1220	7530	176	3580	--	3039
11...	1200	3350	20	181	--	3039
17...	0835	2990	16	129	--	3009
17...	0900	3000	14	113	--	3039
JUL						
24...	1220	2100	1930	10900	100	3009
AUG						
12...	0925	1960	64	339	94	3009
12...	1000	1960	47	249	--	3039
SEP						
16...	1510	1530	118	487	92	3009
16...	1535	1530	207	855	--	3039

a-Suspended-sediment concentrations associated with samplers coded 3045 or 3039 were determined from a subsample split of a composite sample.

b-Code 3044 or 3045 is a DH-81 water-quality and suspended-sediment sampler; code 3039 is a D-77TM water-quality sampler; code 3009 is a D-74 suspended-sediment sampler.

e-Estimated.

09070500 COLORADO RIVER NEAR DOTSERO, CO--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	13.4	12.2	12.8	6.9	6.2	6.5	---	---	---	---	---	---
2	13.4	12.5	13.0	6.3	5.4	5.7	---	---	---	---	---	---
3	13.6	12.8	13.2	5.7	4.8	5.1	---	---	---	---	---	---
4	13.3	12.2	12.7	5.2	4.6	4.9	---	---	---	---	---	---
5	12.8	11.7	12.3	5.2	4.6	5.0	---	---	---	---	---	---
6	12.6	11.6	12.2	5.2	4.6	5.0	---	---	---	---	---	---
7	12.5	11.7	12.0	5.2	4.6	4.9	---	---	---	---	---	---
8	12.0	10.9	11.4	5.2	4.6	4.9	---	---	---	---	---	---
9	10.9	9.6	10.1	5.7	5.1	5.3	---	---	---	---	---	---
10	10.3	9.4	9.8	5.7	5.2	5.4	---	---	---	---	---	---
11	10.5	10.0	10.3	5.4	4.9	5.0	---	---	---	---	---	---
12	10.3	9.3	9.7	5.1	4.8	4.9	---	---	---	---	---	---
13	9.3	7.9	8.2	5.1	4.8	4.9	---	---	---	---	---	---
14	7.9	7.1	7.5	4.9	3.7	4.3	---	---	---	---	---	---
15	8.3	7.1	7.7	3.7	2.1	2.8	---	---	---	---	---	---
16	8.6	7.7	8.1	2.1	1.3	1.6	---	---	---	---	---	---
17	8.8	7.9	8.4	1.3	1.1	1.2	---	---	---	---	---	---
18	8.9	8.0	8.5	1.3	1.1	1.2	---	---	---	---	---	---
19	8.9	8.0	8.5	1.9	1.3	1.6	---	---	---	---	---	---
20	8.8	8.2	8.5	2.6	1.9	2.2	---	---	---	---	---	---
21	8.6	8.0	8.4	2.6	2.1	2.3	---	---	---	---	---	---
22	8.6	7.7	8.1	2.1	1.8	1.9	---	---	---	---	---	---
23	8.3	7.4	7.7	1.9	1.6	1.7	---	---	---	---	---	---
24	7.7	6.3	7.0	1.6	1.5	1.5	---	---	---	---	---	---
25	6.3	5.2	5.6	---	---	---	---	---	---	---	---	---
26	5.4	4.6	5.0	---	---	---	---	---	---	---	---	---
27	5.1	4.4	4.8	---	---	---	---	---	---	---	---	---
28	5.4	4.4	4.9	---	---	---	---	---	---	---	---	---
29	5.8	4.9	5.3	---	---	---	---	---	---	---	---	---
30	6.6	5.7	6.1	---	---	---	---	---	---	---	---	---
31	6.9	6.3	6.6	---	---	---	---	---	---	---	---	---
MONTH	13.6	4.4	8.9	---	---	---	---	---	---	---	---	---

		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	7.6	3.8	5.9	11.0	9.4	10.2
2	---	---	---	---	---	---	7.0	5.5	6.3	11.6	8.3	10.0
3	---	---	---	---	---	---	7.9	4.8	6.4	11.9	8.8	10.4
4	---	---	---	---	---	---	8.0	5.5	6.9	11.7	9.1	10.6
5	---	---	---	---	---	---	9.1	6.5	7.7	11.0	9.6	10.3
6	---	---	---	---	---	---	8.8	6.6	7.8	10.2	8.3	9.4
7	---	---	---	---	---	---	8.6	5.7	6.8	9.7	8.0	9.0
8	---	---	---	---	---	---	6.9	5.5	6.3	10.6	8.0	9.4
9	---	---	---	---	---	---	8.2	4.9	6.5	11.3	9.2	10.3
10	---	---	---	---	---	---	8.9	5.4	7.2	12.0	9.1	10.6
11	---	---	---	---	---	---	9.9	6.5	8.3	11.4	9.9	10.8
12	---	---	---	---	---	---	9.4	7.7	8.5	11.3	8.5	10.0
13	---	---	---	---	---	---	8.3	6.9	7.5	12.2	9.1	10.7
14	---	---	---	---	---	---	8.0	6.6	7.2	11.4	9.4	10.4
15	---	---	---	---	---	---	8.3	6.0	7.1	10.3	7.9	9.2
16	---	---	---	---	---	---	6.9	5.2	6.1	10.8	7.9	9.4
17	---	---	---	---	---	---	7.6	5.7	6.4	12.0	8.8	10.3
18	---	---	---	---	---	---	8.6	5.1	6.9	12.7	9.7	11.1
19	---	---	---	5.1	2.4	3.6	8.3	5.8	7.3	12.0	10.0	11.1
20	---	---	---	6.2	2.4	4.3	9.7	6.5	8.1	12.0	9.7	10.9
21	---	---	---	7.2	3.2	5.3	11.0	6.9	9.0	12.2	10.2	11.1
22	---	---	---	7.7	4.8	6.3	11.7	8.2	9.9	11.0	8.9	9.7
23	---	---	---	8.8	6.2	7.5	12.5	8.9	10.8	11.4	7.9	9.5
24	---	---	---	9.6	6.5	8.0	11.4	9.9	10.7	10.5	8.9	9.8
25	---	---	---	8.4	7.2	8.0	11.1	9.2	10.2	12.4	7.9	10.0
26	---	---	---	8.2	6.7	7.3	10.2	8.3	9.3	12.0	10.2	11.2
27	---	---	---	8.0	6.5	7.2	11.1	7.7	9.4	13.1	9.9	11.4
28	---	---	---	7.2	6.1	6.8	11.4	8.8	10.0	13.1	10.5	11.7
29	---	---	---	6.9	5.2	6.0	11.9	8.8	10.3	12.4	10.3	11.4
30	---	---	---	5.8	4.1	4.9	12.0	9.2	10.6	12.4	10.0	11.2
31	---	---	---	6.6	3.8	5.1	---	---	---	12.2	9.7	10.9
MONTH	---	---	---	---	---	---	12.5	3.8	8.0	13.1	7.9	10.4

09070500 COLORADO RIVER NEAR DOTSERO, CO--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	13.0	9.9	11.3	17.4	14.2	15.8	17.8	16.3	17.0	17.7	16.1	16.8
2	12.8	9.9	11.3	17.9	14.5	16.2	17.0	14.2	15.6	18.3	14.7	16.5
3	12.0	10.2	11.2	17.2	15.0	16.1	17.0	14.8	16.0	19.0	15.5	17.3
4	11.3	9.4	10.4	17.0	14.5	15.8	17.4	14.8	16.1	19.8	15.9	18.0
5	10.8	8.9	9.7	18.0	14.2	16.1	18.7	14.8	16.6	20.4	16.7	18.7
6	10.6	8.2	9.4	18.2	15.8	16.9	19.5	15.9	17.6	20.8	17.2	19.1
7	12.2	9.4	10.8	17.4	15.0	16.0	19.3	16.4	17.9	21.1	17.7	19.5
8	13.0	10.5	11.7	18.0	14.5	16.0	18.8	16.9	18.0	20.3	17.4	19.0
9	13.9	10.6	12.2	17.4	15.5	16.3	19.8	17.2	18.4	19.3	16.9	18.3
10	13.7	10.5	12.1	16.9	14.7	15.7	19.0	17.4	18.2	18.7	16.3	17.7
11	13.0	10.5	11.8	18.3	14.2	16.3	18.0	16.6	17.3	18.8	16.3	17.6
12	14.1	10.2	12.2	19.1	14.8	16.9	19.3	15.9	17.4	18.0	16.6	17.2
13	13.7	11.9	12.7	19.6	15.6	17.7	19.5	15.6	17.7	17.0	15.3	16.2
14	12.5	10.8	11.6	19.8	15.6	17.8	19.0	16.3	17.8	17.5	14.2	15.9
15	13.0	9.1	11.1	20.3	15.9	18.2	19.6	16.4	18.2	17.2	14.5	16.0
16	13.7	11.3	12.3	20.3	16.3	18.4	19.6	16.6	18.2	---	---	---
17	12.3	10.6	11.4	21.3	16.9	19.0	19.3	16.7	18.4	---	---	---
18	13.3	9.4	11.2	21.9	17.5	19.8	19.3	16.9	18.3	---	---	---
19	15.0	9.9	12.3	21.6	18.0	20.0	19.6	16.3	18.1	---	---	---
20	15.1	11.6	13.4	22.3	17.9	20.1	20.1	16.9	18.7	---	---	---
21	14.5	12.0	13.3	22.1	18.3	20.2	19.2	17.0	17.7	---	---	---
22	15.5	11.6	13.4	20.8	17.7	19.3	19.3	15.6	17.6	---	---	---
23	15.0	11.9	13.5	20.4	18.2	19.4	20.1	16.3	18.3	---	---	---
24	14.7	11.6	13.2	20.0	17.7	18.8	20.0	17.2	18.8	---	---	---
25	15.3	11.3	13.2	19.2	17.7	18.4	20.0	17.2	18.6	---	---	---
26	15.6	11.9	13.8	20.1	17.2	18.5	20.4	16.7	18.7	---	---	---
27	15.9	12.5	14.1	21.1	17.2	19.2	20.1	17.5	19.0	---	---	---
28	16.3	12.8	14.4	20.5	18.5	19.3	19.5	16.1	18.0	---	---	---
29	16.7	13.3	15.0	19.6	17.4	18.6	19.0	15.8	17.7	---	---	---
30	17.4	14.1	15.6	19.0	16.3	17.7	19.6	16.1	18.0	---	---	---
31	---	---	---	18.2	16.7	17.6	18.8	16.3	17.6	---	---	---
MONTH	17.4	8.2	12.3	22.3	14.2	17.8	20.4	14.2	17.8	---	---	---

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 mi^2.

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. Previous to Oct. 1995, daily maximum and minimum specific-conductance data available in district office. Daily specific-conductance records are good except Dec.11 to Feb. 03 which are fair, and Dec 11-12, 20-25, 27, Jan. 6-8, 14-15, 19, 21, 23-24, 26-30, which are poor. Daily water temperature records are good. Interruptions in record are due to equipment malfunctions or sensors affected by slush ice.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,740 microsiemens Aug. 21, 1990; minimum, 181 microsiemens June 21, 1996.
WATER TEMPERATURE: Maximum, 22.5°C July 26, 1987; minimum, 0.0°C on many days during the winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1090 microsiemens, July 24; minimum, 252 microsiemens, June 2.
WATER TEMPERATURE: Maximum, 21.1°C, July 21; minimum, 0.0°C on many days during the winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT											
22...	1430	1640	630	8.3	8.2	11.0	190	56	13	54	2
JAN											
13...	0910	1450	587	8.1	0.1	14.4	150	43	9.1	49	2
MAR											
20...	1030	1460	569	8.3	4.2	10.9	160	47	9.6	52	2
APR											
23...	1220	1900	532	8.3	10.8	9.4	160	45	10	42	1
MAY											
13...	0950	4820	355	8.1	10.3	8.9	130	37	9.4	20	0.8
JUN											
09...	1430	3840	374	8.2	12.5	8.4	120	36	8.2	25	1
JUL											
29...	0810	2070	574	8.3	19.0	7.0	180	56	9.7	41	1
AUG											
18...	1515	1780	609	8.4	18.7	8.0	170	51	9.8	49	2
SEP											
04...	0845	1680	608	8.3	19.0	8.0	170	50	11	50	2

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 TOT IT FIELD MG/L AS CACO3 (39086)	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, 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											
22...	2.1	--	--	112	95	78	0.2	8.8	374	0.51	1660
JAN											
13...	1.9	--	--	93	72	77	0.2	9.7	317	0.43	1240
MAR											
20...	2.9	--	--	96	74	73	0.2	9.7	326	0.44	1280
APR											
23...	2.2	--	--	101	67	59	0.2	8.0	295	0.40	1510
MAY											
13...	1.5	--	--	94	57	20	0.2	9.4	211	0.29	2740
JUN											
09...	1.5	105	86	--	47	28	0.2	8.6	206	0.28	2130
JUL											
29...	2.3	--	--	111	84	55	0.3	9.8	324	0.44	1810
AUG											
18...	2.6	--	--	106	81	69	0.3	8.1	335	0.46	1610
SEP											
04...	2.5	--	--	102	85	66	0.3	7.6	333	0.45	1510

09071750 COLORADO RIVER ABOVE GLENWOOD SPRINGS, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	557	544	551	628	622	624	702	673	690	561	521	546
2	562	541	557	637	627	634	709	651	679	560	533	549
3	---	---	---	644	622	635	666	640	652	552	533	540
4	---	---	---	638	620	632	---	---	---	541	532	538
5	---	---	---	652	621	640	---	---	---	577	537	553
6	---	---	---	644	616	634	754	657	699	589	563	575
7	---	---	---	634	617	627	663	594	620	597	538	557
8	---	---	---	663	618	643	629	570	589	589	564	577
9	606	585	593	657	634	649	579	546	565	604	550	579
10	592	585	589	644	637	640	560	542	551	610	560	591
11	596	587	592	641	627	633	603	542	571	600	547	571
12	591	578	586	629	617	623	678	574	618	578	554	568
13	578	564	570	626	600	613	692	657	670	564	555	559
14	564	554	559	628	612	621	683	624	657	592	558	571
15	564	549	557	683	624	650	664	612	634	595	547	575
16	559	552	556	757	682	722	645	561	606	589	564	575
17	555	544	553	795	712	747	561	539	552	585	562	573
18	577	548	567	762	636	682	547	530	539	578	550	568
19	575	530	553	673	603	635	555	536	543	596	550	575
20	588	553	573	672	591	628	589	539	556	615	544	574
21	619	573	601	644	624	635	590	540	561	610	---	---
22	648	616	636	649	634	640	578	561	570	639	542	583
23	653	644	648	---	---	---	595	563	587	637	610	621
24	---	---	---	---	---	---	595	559	579	606	---	---
25	---	---	---	685	655	665	595	571	582	598	540	567
26	---	---	---	678	636	661	---	---	---	584	550	565
27	650	643	647	678	656	666	608	568	581	604	558	575
28	677	637	657	664	652	658	629	579	611	613	559	579
29	664	629	645	670	652	659	608	577	598	611	568	586
30	632	625	630	690	666	674	577	529	550	610	567	585
31	627	621	624	---	---	---	542	528	535	601	569	585
MONTH	---	---	---	---	---	---	---	---	---	639	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	599	569	585	642	554	592	567	549	559	408	374	392
2	600	562	583	620	543	580	572	548	561	379	370	373
3	594	555	578	600	541	571	570	520	546	374	361	368
4	594	573	586	588	555	575	524	498	511	363	336	351
5	592	574	582	593	574	581	511	488	501	336	316	327
6	609	570	581	594	575	586	506	479	494	318	314	316
7	586	577	582	584	575	579	499	482	492	323	316	320
8	589	583	586	596	576	585	517	496	506	346	316	332
9	595	585	590	621	580	595	506	496	500	403	346	373
10	594	585	587	624	571	598	504	495	499	384	375	377
11	608	580	594	623	590	600	511	489	502	376	353	366
12	616	574	597	604	590	596	513	462	493	356	351	353
13	613	582	597	612	594	602	492	461	477	358	355	356
14	602	563	587	630	570	611	475	462	469	375	357	367
15	596	569	580	633	596	613	478	462	473	397	367	384
16	589	567	576	632	586	604	485	474	479	409	397	405
17	582	566	574	614	574	590	493	479	487	410	404	408
18	580	559	570	581	555	569	498	487	494	405	382	397
19	583	562	574	569	539	551	509	498	503	382	344	366
20	587	560	576	586	567	575	509	497	502	351	339	346
21	589	553	577	592	576	584	512	499	507	344	321	335
22	599	560	579	592	579	584	503	488	497	321	306	312
23	584	568	578	600	564	583	532	489	514	324	306	314
24	582	566	574	648	528	574	515	459	493	335	319	326
25	579	563	571	528	462	495	468	411	440	343	335	338
26	580	562	571	467	439	453	422	366	404	349	336	343
27	591	563	577	470	439	453	390	374	382	336	325	330
28	616	529	578	480	468	472	399	386	392	336	297	317
29	---	---	---	497	479	484	414	391	403	297	274	285
30	---	---	---	530	497	510	419	365	401	277	261	268
31	---	---	---	549	524	533	---	---	---	264	257	260
MONTH	616	529	581	648	439	564	572	365	483	410	257	345

09071750 COLORADO RIVER ABOVE GLENWOOD SPRINGS, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	263	256	260	344	313	329	549	477	501	638	626	632
2	262	252	257	338	315	326	509	446	461	633	626	630
3	266	256	261	322	306	316	495	451	469	627	592	603
4	277	262	269	327	309	319	577	493	512	625	592	611
5	308	277	290	349	327	342	499	482	486	640	625	633
6	333	304	313	373	344	363	490	483	487	652	638	644
7	365	333	351	383	364	376	500	487	493	740	648	666
8	382	364	373	425	364	408	528	500	510	655	650	652
9	394	379	386	451	421	439	559	528	550	653	646	649
10	403	394	400	441	416	431	561	557	558	662	648	653
11	405	387	398	444	411	429	563	547	557	661	628	639
12	408	349	399	474	426	448	574	544	550	636	599	616
13	413	377	403	504	466	486	604	574	594	627	601	617
14	399	386	393	546	503	520	612	604	608	624	609	619
15	414	398	407	561	532	546	620	608	616	609	606	607
16	428	413	422	598	555	576	623	614	619	608	594	604
17	434	422	431	605	587	595	621	599	613	619	605	615
18	430	421	427	596	579	586	613	599	608	629	619	625
19	439	416	434	600	567	580	614	585	608	630	621	624
20	452	416	440	581	573	577	599	585	595	632	625	629
21	425	395	414	594	578	585	611	597	607	625	617	619
22	401	371	389	632	594	620	613	604	609	628	623	625
23	390	344	369	748	594	637	613	604	608	628	625	627
24	385	347	372	1090	568	697	633	604	615	626	621	623
25	397	348	388	605	511	553	665	628	649	626	614	617
26	406	361	388	588	517	542	688	646	674	620	613	616
27	382	344	366	554	525	534	703	644	684	620	608	613
28	372	330	352	631	554	566	649	572	615	618	612	615
29	355	329	342	657	520	579	603	572	592	628	616	622
30	358	327	340	520	488	502	613	595	605	652	626	645
31	---	---	---	533	477	491	627	612	621	---	---	---
MONTH	452	252	368	1090	306	493	703	446	577	740	592	626

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	13.5	12.5	13.1	6.8	5.3	6.1	1.1	.7	.9	.0	.0	.0
2	13.8	12.9	13.5	5.9	4.1	5.0	2.1	1.0	1.4	.1	.0	.0
3	14.1	13.3	13.8	4.7	3.4	4.2	2.1	.9	1.6	.1	.0	.0
4	14.1	12.2	13.0	4.3	3.5	4.0	1.4	.0	.3	.2	.0	.0
5	13.1	11.8	12.6	4.6	3.6	4.3	.0	.0	.0	.1	.0	.0
6	13.0	11.7	12.5	4.7	3.6	4.4	.0	.0	.0	.0	.0	.0
7	12.9	11.0	12.3	4.8	3.6	4.4	.2	.0	.0	.0	.0	.0
8	12.0	10.4	11.1	4.8	4.0	4.5	.4	.0	.2	.0	.0	.0
9	10.6	9.0	9.7	5.5	4.7	5.1	.5	.0	.2	.0	.0	.0
10	10.1	9.0	9.5	5.4	4.5	4.9	.4	.0	.2	.0	.0	.0
11	10.5	9.9	10.2	4.5	4.1	4.3	.2	.0	.0	.1	.0	.0
12	10.1	8.3	9.2	4.4	3.9	4.2	.0	.0	.0	.2	.0	.0
13	8.8	6.3	7.4	4.7	4.1	4.4	.0	.0	.0	.1	.0	.0
14	7.1	6.2	6.6	4.2	2.5	3.4	.0	.0	.0	.3	.0	.0
15	8.0	6.5	7.0	2.5	.0	.9	.0	.0	.0	.0	.0	.0
16	8.5	7.3	7.8	.3	.0	.1	.0	.0	.0	.2	.0	.0
17	8.7	7.6	8.2	.9	.0	.4	.0	.0	.0	.0	.0	.0
18	8.8	7.7	8.4	1.5	.3	.8	.0	.0	.0	.2	.0	.0
19	8.9	7.7	8.4	1.9	1.1	1.3	.0	.0	.0	.1	.0	.0
20	8.9	7.9	8.5	4.3	1.8	2.2	.0	.0	.0	.2	.0	.0
21	8.8	7.6	8.2	2.2	1.0	1.6	.0	.0	.0	.0	.0	.0
22	8.5	7.0	7.9	1.2	.3	.8	.0	.0	.0	.0	.0	.0
23	8.0	6.7	7.5	1.0	.3	.7	.0	.0	.0	.1	.0	.0
24	7.3	5.6	6.6	1.1	.2	.7	.0	.0	.0	.2	.0	.0
25	5.6	3.6	4.5	1.3	.7	1.0	.0	.0	.0	.5	.0	.1
26	4.1	3.2	3.7	1.5	1.0	1.3	.0	.0	.0	.2	.0	.0
27	4.0	3.2	3.7	2.6	.9	1.5	.0	.0	.0	.2	.0	.1
28	4.5	3.7	4.1	2.6	1.7	2.3	.0	.0	.0	.2	.0	.0
29	5.4	4.2	4.7	2.4	1.2	1.8	.0	.0	.0	.2	.0	.1
30	6.3	5.4	5.8	1.7	.8	1.2	.0	.0	.0	.5	.0	.2
31	6.8	6.1	6.4	---	---	---	.0	.0	.0	.9	.0	.4
MONTH	14.1	3.2	8.6	6.8	.0	2.7	2.1	.0	.2	.9	.0	.0

09071750 COLORADO RIVER ABOVE GLENWOOD SPRINGS, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.9	.0	.4	.8	.0	.2	7.1	4.8	5.7	11.3	10.0	10.6
2	.9	.0	.4	1.0	.0	.4	7.1	5.8	6.3	10.7	9.4	10.0
3	1.6	.4	.9	3.2	1.0	1.8	7.5	5.5	6.3	11.2	9.7	10.4
4	1.6	.8	1.2	3.6	2.9	3.2	7.6	6.3	6.9	11.2	10.0	10.7
5	1.9	1.2	1.5	3.3	2.4	3.0	8.6	6.7	7.5	11.2	9.9	10.5
6	2.7	1.6	1.9	3.4	1.8	2.6	8.6	7.4	7.9	10.6	9.2	9.9
7	3.1	2.4	2.6	2.3	1.9	2.1	8.3	6.4	7.1	9.8	8.8	9.3
8	3.2	2.7	2.9	2.6	1.6	1.9	7.8	6.3	6.8	10.2	8.7	9.4
9	3.2	2.6	2.8	3.0	2.0	2.5	7.5	5.7	6.3	11.0	9.6	10.2
10	2.9	1.8	2.4	3.0	2.1	2.5	7.8	6.5	7.1	11.3	9.8	10.5
11	2.4	.8	1.5	3.6	2.4	2.9	9.1	7.5	8.1	11.3	10.4	10.8
12	1.5	.5	.8	4.3	3.3	3.8	9.1	8.0	8.6	10.8	9.5	10.0
13	1.5	.8	1.1	5.3	4.2	4.6	9.0	7.0	7.6	11.3	9.9	10.5
14	2.8	1.4	1.8	5.9	4.9	5.4	7.6	6.7	7.1	11.3	10.2	10.6
15	3.3	2.8	3.0	6.5	5.4	6.0	7.4	6.5	7.1	10.2	8.7	9.4
16	4.0	3.1	3.3	6.9	5.9	6.4	7.3	6.1	6.7	10.1	8.7	9.4
17	4.2	3.4	3.8	7.1	6.1	6.7	7.2	5.8	6.4	11.6	9.3	10.2
18	3.6	2.5	3.1	7.0	4.2	5.4	7.5	5.6	6.4	12.2	10.0	11.1
19	3.1	2.0	2.6	4.2	3.3	3.6	7.8	7.0	7.3	12.1	10.7	11.3
20	2.7	1.7	2.0	5.1	3.6	4.1	8.7	7.4	7.8	11.8	10.4	11.1
21	2.6	1.9	2.2	6.1	4.5	5.1	9.9	8.1	8.7	11.8	10.6	11.2
22	3.1	2.2	2.5	6.8	5.8	6.2	10.8	9.1	9.8	11.7	9.8	10.4
23	3.7	2.8	3.2	8.1	6.8	7.3	11.4	10.0	10.6	10.7	8.4	9.5
24	4.1	3.5	3.8	8.9	7.5	8.0	11.6	10.4	10.9	10.7	9.3	10.0
25	3.7	2.7	3.0	9.0	7.8	8.3	10.8	10.0	10.4	11.6	8.6	9.9
26	3.1	1.4	2.2	7.9	7.0	7.6	10.3	8.8	9.4	11.9	10.5	11.2
27	1.9	.4	1.0	7.8	6.3	7.0	10.1	8.8	9.3	12.6	10.4	11.5
28	.7	.0	.3	7.6	6.7	7.0	10.6	9.6	10.0	12.8	11.1	12.1
29	---	---	---	6.7	5.5	5.9	11.1	9.6	10.3	12.7	11.3	11.9
30	---	---	---	6.1	4.6	5.1	11.3	9.9	10.7	12.3	10.9	11.6
31	---	---	---	5.8	3.9	4.8	---	---	---	12.2	10.5	11.3
MONTH	4.2	.0	2.1	9.0	.0	4.6	11.6	4.8	8.0	12.8	8.4	10.5
		JUNE			JULY			AUGUST			SEPTEMBER	
1	12.7	10.6	11.6	17.6	15.8	16.7	17.9	17.0	17.4	17.9	16.7	17.3
2	12.7	10.8	11.8	18.1	16.1	17.0	17.0	15.6	16.2	16.9	16.2	16.6
3	12.7	11.3	11.8	18.1	16.3	17.1	16.6	15.8	16.2	18.0	16.9	17.2
4	11.9	10.3	10.9	17.3	16.1	16.6	17.0	15.3	16.2	18.5	17.6	18.0
5	10.7	9.5	10.1	18.0	15.9	16.7	17.8	16.0	16.7	19.2	18.1	18.7
6	10.9	9.1	9.9	18.0	16.9	17.6	18.5	16.9	17.7	19.6	18.5	19.1
7	12.0	10.1	10.9	18.0	16.4	16.9	18.6	17.5	18.2	20.1	18.9	19.5
8	12.8	11.1	11.8	17.3	15.7	16.4	18.6	17.6	18.2	20.1	18.5	19.4
9	13.3	11.4	12.2	17.5	16.4	17.0	19.2	17.8	18.4	19.3	17.9	18.7
10	13.4	11.4	12.3	17.1	15.8	16.5	19.2	17.9	18.5	18.4	17.3	17.9
11	13.4	11.5	12.5	18.0	15.9	16.6	18.7	17.6	18.0	18.2	17.2	17.8
12	13.8	11.4	12.4	18.4	16.7	17.4	18.3	16.4	17.3	18.1	17.0	17.6
13	13.8	12.1	13.0	18.7	17.5	18.0	18.3	17.3	17.7	17.3	16.3	16.8
14	13.4	11.7	12.2	18.8	18.0	18.3	18.4	17.1	17.9	17.0	15.5	16.1
15	12.7	10.4	11.4	18.9	18.1	18.5	18.7	17.8	18.1	16.7	15.5	16.1
16	13.0	11.7	12.3	19.2	18.5	18.7	18.9	18.1	18.4	17.0	15.9	16.3
17	13.0	11.0	11.6	19.9	18.5	19.1	19.0	18.1	18.6	17.1	15.8	16.3
18	12.4	9.9	11.1	20.3	19.7	19.9	18.8	18.1	18.4	16.5	15.5	16.1
19	13.9	11.2	12.2	20.8	20.1	20.3	18.8	17.8	18.2	16.6	14.9	15.8
20	14.8	12.7	13.6	21.0	19.8	20.3	19.3	18.4	18.7	15.8	13.8	14.8
21	14.8	13.2	13.9	21.1	20.2	20.6	19.4	17.4	18.4	14.5	13.2	13.9
22	15.0	12.9	13.8	21.0	19.2	20.0	18.5	17.0	17.5	14.0	12.7	13.5
23	15.0	13.2	14.1	20.1	19.4	19.7	19.0	17.9	18.3	14.5	13.8	14.1
24	14.8	12.9	13.8	19.8	18.8	19.2	19.3	18.7	19.0	14.8	13.7	14.3
25	14.7	12.6	13.6	19.6	18.7	19.1	19.1	18.2	18.7	15.1	13.6	14.4
26	15.4	13.3	14.3	19.8	18.0	18.6	19.4	18.4	18.8	14.4	13.0	13.8
27	15.7	13.8	14.7	20.0	19.2	19.5	19.7	18.7	19.3	14.2	12.6	13.4
28	16.1	14.1	15.1	20.3	19.4	19.8	19.1	17.6	18.3	13.7	12.4	13.1
29	16.6	14.6	15.6	19.7	19.0	19.3	18.6	17.3	18.0	14.5	13.5	13.9
30	17.5	15.2	16.3	19.1	17.7	18.3	18.7	17.5	18.0	14.9	13.6	14.3
31	---	---	---	18.6	17.5	18.0	18.8	17.1	18.0	---	---	---
MONTH	17.5	9.1	12.7	21.1	15.7	18.3	19.7	15.3	18.0	20.1	12.4	16.2

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 tributary, and 4.25 mi southeast of Aspen.

DRAINAGE AREA.--75.8 mi^2.

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 (47,450 acre-ft diverted during current year, provided by Colorado Division of Water Resources).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	31	27	22	25	e20	22	49	215	165	51	32
2	37	29	26	23	23	20	24	52	228	144	49	31
3	32	28	26	23	23	20	23	59	235	136	46	29
4	30	30	e24	23	23	20	23	72	213	126	47	28
5	29	29	e25	23	23	20	23	74	179	115	47	27
6	30	29	25	e21	23	19	23	65	153	113	44	27
7	29	29	25	e19	23	19	23	59	133	103	42	27
8	32	28	24	e19	22	e19	23	56	124	99	40	27
9	30	29	e22	e20	23	20	22	59	121	98	40	26
10	32	28	e21	e20	21	e20	22	71	128	127	39	26
11	33	29	e20	e19	e20	e20	24	87	125	100	39	26
12	33	29	e21	e20	e21	20	27	82	130	84	40	29
13	34	26	e22	e21	e20	18	27	98	145	75	39	30
14	34	26	23	22	22	19	26	108	131	67	38	29
15	34	e26	23	23	21	19	25	90	135	62	37	30
16	34	e27	23	23	21	20	24	89	129	59	35	29
17	34	e28	23	23	21	20	23	106	123	57	36	26
18	35	e27	23	23	21	19	24	124	111	54	35	26
19	41	e27	23	e22	e19	22	22	146	121	53	34	25
20	32	e26	23	e20	e20	21	23	162	146	51	34	27
21	32	e26	23	e21	e20	22	23	189	156	49	35	37
22	30	26	23	e20	21	21	26	175	174	50	34	54
23	30	26	22	e20	21	22	33	148	187	50	34	29
24	31	26	e21	e19	20	24	40	139	174	57	33	28
25	31	26	e19	e21	19	28	42	133	167	64	32	27
26	30	26	e21	24	e18	28	37	160	176	55	33	25
27	31	28	23	24	e19	26	34	176	176	52	35	26
28	32	27	23	25	e19	25	36	200	176	54	32	42
29	31	26	23	23	---	23	39	217	174	58	30	37
30	31	26	23	24	---	23	45	213	175	52	29	29
31	31	---	22	23	---	20	---	207	---	49	29	---
TOTAL	1003	824	712	673	592	657	828	3665	4760	2478	1168	891
MEAN	32.4	27.5	23.0	21.7	21.1	21.2	27.6	118	159	79.9	37.7	29.7
MAX	41	31	27	25	25	28	45	217	235	165	51	54
MIN	29	26	19	19	18	18	22	49	111	49	29	25
AC-FT	1990	1630	1410	1330	1170	1300	1640	7270	9440	4920	2320	1770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1998, BY WATER YEAR (WY)

MEAN	30.0	22.4	17.9	15.8	14.9	16.2	30.6	145	396	188	62.3	38.8
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	103	41.8	21.2	17.7
(WY)	1995	1995	1995	1995	1981	1981	1983	1995	1989	1981	1981	1981

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1980 - 1998	
ANNUAL TOTAL	40341		18251			
ANNUAL MEAN	111		50.0		a133	
HIGHEST ANNUAL MEAN					194	1984
LOWEST ANNUAL MEAN					35.7	1981
HIGHEST DAILY MEAN	1140	Jun 20	235	Jun 3	1930	Jun 8 1985
LOWEST DAILY MEAN	e,b15	Feb 7	e,c18	Feb 26	d8.0	Jan 11 1980
ANNUAL SEVEN-DAY MINIMUM	16	Feb 7	19	Feb 24	9.2	Mar 22 1981
INSTANTANEOUS PEAK FLOW			267	Jun 2	f2350	Jun 8 1985
INSTANTANEOUS PEAK STAGE			g2.49	Jun 2	5.10	Jun 8 1985
ANNUAL RUNOFF (AC-FT)	80020		36200		a96360	
10 PERCENT EXCEEDS	317		132		179	
50 PERCENT EXCEEDS	34		29		28	
90 PERCENT EXCEEDS	19		20		13	

e-Estimated.
a-Includes Twin Lakes Tunnel.
b-Also occurred Feb 8, 13, 22, and Mar 5.
c-Also occurred Mar 13, this day not estimated.
d-Also occurred Dec 31, 1994.
f-From rating curve extended above 910 ft^3/s.
g-Maximum gage height, 3.89, Mar 1, backwater from ice.

09073300 ROARING FORK RIVER ABOVE DIFFICULT CREEK NEAR ASPEN, CO--Continued
WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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 WHOLE TOTAL UREASE (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)
OCT											
22...	0830	28	68	7.2	2.5	10.6	K1	--	30	9.5	1.5
JAN											
27...	1235	27	76	7.8	0.5	10.8	<1	<1	--	--	--
MAY											
11...	1515	78	53	7.6	7.5	10.0	<1	<1	23	7.2	1.2
JUN											
02...	0855	211	34	7.4	4.5	9.1	K1	<1	16	4.9	0.8
JUL											
30...	1120	52	49	7.7	13.0	7.5	K6	K1	--	--	--
AUG											
19...	1620	35	63	7.7	13.5	7.8	K1	K1	27	8.4	1.3

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
OCT											
22...	1.8	0.1	0.4	34	28	--	7.1	0.3	0.5	6.7	45
JAN											
27...	--	--	--	--	--	--	--	--	--	--	--
MAY											
11...	1.5	0.1	0.4	--	--	22	3.4	0.2	0.3	6.4	34
JUN											
02...	1.2	0.1	0.3	--	--	16	1.8	<0.1	0.3	5.4	19
JUL											
30...	--	--	--	--	--	--	--	--	--	--	--
AUG											
19...	1.8	0.2	0.5	--	--	25	5.7	0.2	0.5	6.6	41

DATE	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)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT										
22...	0.06	3.45	0.01	0.09	<0.01	<0.2	<0.2	0.01	<0.01	0.01
JAN										
27...	--	--	<0.01	0.15	0.03	<0.1	<0.1	0.01	<0.01	<0.01
MAY										
11...	0.05	7.08	<0.01	0.06	0.04	0.1	0.1	<0.01	<0.01	<0.01
JUN										
02...	0.08	10.7	0.02	0.08	0.04	<0.1	0.1	<0.01	<0.01	0.01
JUL										
30...	--	--	<0.01	<0.05	<0.02	<0.1	<0.1	<0.01	<0.01	<0.01
AUG										
19...	0.06	3.84	<0.01	0.05	0.03	<0.1	<0.1	<0.01	<0.01	0.01

K-Based on non-ideal colony count.

09073300 ROARING FORK RIVER ABOVE DIFFICULT CREEK NEAR ASPEN, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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										
22...	<1	2	70	<1	<10	4	<0.1	<1	<1	<3
MAY										
11...	<1	2	160	<1	<10	<4	<0.1	<1	<0.2	<20
JUN										
02...	<1	1	130	<1	<10	<4	<0.1	<1	<0.2	<20
AUG										
19...	<1	2	60	<1	<10	<4	<0.1	<1	<0.2	<20

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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)
MAR					AUG				
11...	1140	25	82	1.0	12...	1239	42	61	11.5
JUL									
01...	0940	150	35	7.5					

09073400 ROARING FORK RIVER NEAR ASPEN, CO

LOCATION (REVISED).--Lat 39°10'48", long 106°48'05", T. 10 S., R. 84 W., Pitkin County, Hydrologic Unit 14010004, on right bank 25 ft upstream from private bridge, 115 ft upstream from Salvation ditch headgate, 1.0 mi southeast of Aspen, and 2.0 mi upstream from Hunter Creek.

DRAINAGE AREA.--108 mi^2.

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

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,014.01 ft above sea level. Prior to Apr. 25, 1968, at site 85 ft upstream, at datum 1.16 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Transmountain diversion 14 mi upstream through Twin Lakes tunnel to Arkansas River basin since May 24, 1935, (47,450 acre-ft diverted during current year, provided by Colorado Division of Water Resources). 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	46	41	35	34	e29	34	72	328	249	100	54
2	48	43	41	36	34	32	42	77	351	220	96	54
3	50	41	40	37	33	30	41	85	367	204	85	47
4	46	45	e36	36	32	31	40	102	333	195	84	44
5	44	43	e38	36	32	30	40	108	280	184	88	42
6	43	43	41	34	32	30	40	101	241	183	77	41
7	42	43	41	e32	32	30	40	88	226	173	73	40
8	47	43	40	34	31	31	40	81	217	169	69	40
9	46	43	40	e33	32	29	39	84	218	172	68	40
10	46	42	39	36	30	31	38	97	230	211	67	38
11	48	44	e35	36	30	29	42	125	221	174	69	38
12	50	44	e35	35	32	28	46	123	224	150	70	43
13	49	40	40	e34	e31	29	45	132	249	136	65	46
14	49	41	39	34	32	29	43	148	224	125	61	43
15	49	41	39	e35	31	30	41	127	229	117	59	43
16	49	33	39	35	31	31	41	126	223	108	57	42
17	49	36	39	35	31	32	39	147	230	102	58	39
18	49	42	39	34	31	30	40	171	205	96	60	38
19	53	43	38	35	31	30	37	202	216	92	56	36
20	46	46	e38	35	29	30	38	221	251	88	54	36
21	45	44	e39	e33	33	29	38	235	261	85	55	43
22	44	42	37	e34	31	32	42	226	278	88	56	66
23	45	43	e36	33	32	33	51	194	295	90	53	45
24	47	43	e35	36	32	37	64	189	270	110	50	40
25	45	44	e35	34	31	42	71	180	254	135	51	38
26	44	41	e34	36	30	45	61	222	270	112	54	37
27	45	44	e36	41	e28	43	54	246	272	105	57	36
28	47	42	37	40	e26	39	55	281	268	115	52	46
29	45	40	37	40	---	36	57	315	261	130	47	52
30	45	41	36	37	---	30	64	321	256	104	45	41
31	46	---	35	36	---	34	---	309	---	96	44	---
TOTAL	1449	1266	1175	1097	874	1001	1363	5135	7748	4318	1980	1288
MEAN	46.7	42.2	37.9	35.4	31.2	32.3	45.4	166	258	139	63.9	42.9
MAX	53	46	41	41	34	45	71	321	367	249	100	66
MIN	42	33	34	32	26	28	34	72	205	85	44	36
AC-FT	2870	2510	2330	2180	1730	1990	2700	10190	15370	8560	3930	2550

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1998, BY WATER YEAR (WY)

MEAN	43.9	35.3	30.4	27.3	25.9	27.6	48.7	198	431	208	70.4	50.5
MAX	80.0	61.6	47.5	44.6	41.1	44.3	79.7	554	1017	1057	186	87.1
(WY)	1966	1985	1987	1997	1997	1997	1985	1984	1984	1995	1995	1986
MIN	23.5	20.7	18.6	17.0	15.4	16.6	26.2	97.0	119	48.4	29.3	23.8
(WY)	1978	1978	1977	1977	1977	1977	1973	1983	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1965 - 1998	
ANNUAL TOTAL	57295		28694			
ANNUAL MEAN	157		78.6		a154	
HIGHEST ANNUAL MEAN					229	1984
LOWEST ANNUAL MEAN					42.1	1977
HIGHEST DAILY MEAN	1600	Jun 20	367	Jun 3	1900	Jul 10 1995
LOWEST DAILY MEAN	33	Nov 16	e26	Feb 28	12	Nov 28 1976
ANNUAL SEVEN-DAY MINIMUM	36	Dec 22	29	Mar 9	15	Feb 1 1977
INSTANTANEOUS PEAK FLOW			431	Jun 3	b2230	Jul 11 1995
INSTANTANEOUS PEAK STAGE			2.72	Jun 3	5.97	Jul 11 1995
ANNUAL RUNOFF (AC-FT)	113600		56910		a111600	
10 PERCENT EXCEEDS	474		220		253	
50 PERCENT EXCEEDS	49		43		41	
90 PERCENT EXCEEDS	40		32		23	

e-Estimated.
a-Includes diversions through Twin Lakes Tunnel.
b-Also occurred Jun 9, 1985.

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 mi^2.

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 good 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	15	e10	8.0	7.4	e5.3	10	34	374	74	42	25
2	17	15	e9.8	8.6	7.6	e5.8	9.5	38	412	61	36	26
3	32	16	e9.8	8.5	7.4	6.4	10	48	317	56	32	20
4	25	15	e8.8	8.4	7.2	e6.0	9.6	60	135	52	36	17
5	20	14	e8.6	8.2	7.2	e5.8	10	67	94	47	38	15
6	19	14	e9.5	e7.8	7.3	e5.8	10	61	81	49	34	14
7	18	15	e9.8	e6.6	7.2	5.7	10	53	77	45	31	14
8	26	14	e9.8	e7.2	7.0	e5.6	10	51	78	51	29	13
9	25	14	e9.5	e6.7	7.0	e5.6	9.8	55	78	51	28	13
10	31	12	e9.0	e7.6	e6.6	e5.6	10	72	76	128	31	12
11	34	13	e8.4	e7.8	e6.1	5.7	13	94	73	69	36	12
12	31	14	e7.5	e7.8	e6.6	5.9	17	95	76	43	38	16
13	28	13	e7.4	e7.6	e6.5	6.1	14	107	91	38	31	19
14	27	e12	e8.0	e7.3	7.1	6.2	13	121	76	36	28	15
15	30	e10	e8.0	e6.8	7.1	6.3	12	89	81	36	27	13
16	31	e11	e8.0	e7.8	7.1	7.2	12	92	74	32	25	14
17	30	e12	e7.6	e7.6	6.7	7.6	12	119	73	34	24	12
18	30	e11	e8.0	e7.2	6.5	6.7	12	153	66	32	27	11
19	27	e11	8.8	e7.2	6.2	7.0	11	195	74	31	26	10
20	26	e11	8.3	e7.2	e5.8	6.7	11	230	94	28	23	10
21	22	e10	e8.0	e6.5	e6.0	6.8	12	267	97	30	23	9.0
22	18	e10	8.4	e6.4	6.5	7.4	16	221	110	30	27	8.6
23	18	e10	7.8	7.9	6.4	8.4	24	168	96	27	22	8.7
24	18	e10	7.6	8.2	6.4	10	30	160	78	52	20	8.6
25	17	e10	e7.2	8.0	6.4	13	30	151	73	84	20	7.6
26	17	12	e6.8	7.9	6.4	13	26	213	94	50	24	7.0
27	21	e13	e6.6	e7.8	6.3	12	23	257	101	40	27	6.9
28	20	e11	e7.0	7.6	e5.5	10	22	316	103	48	23	6.7
29	18	e10	e7.8	7.6	---	9.7	24	360	95	62	18	6.8
30	18	e10	8.3	7.7	---	9.3	30	365	89	37	17	7.5
31	17	---	8.0	7.6	---	9.0	---	342	---	32	16	---
TOTAL	728	368	258.1	235.1	187.5	231.6	462.9	4654	3436	1485	859	378.4
MEAN	23.5	12.3	8.33	7.58	6.70	7.47	15.4	150	115	47.9	27.7	12.6
MAX	34	16	10	8.6	7.6	13	30	365	412	128	42	26
MIN	17	10	6.6	6.4	5.5	5.3	9.5	34	66	27	16	6.7
AC-FT	1440	730	512	466	372	459	918	9230	6820	2950	1700	751

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1998, BY WATER YEAR (WY)

MEAN	16.4	10.9	7.31	6.21	5.73	6.67	19.4	122	212	80.0	32.1	19.0
MAX	32.7	25.1	14.4	11.3	9.21	11.3	40.8	287	462	271	74.4	39.8
(WY)	1985	1985	1985	1987	1985	1997	1989	1996	1996	1995	1995	1984
MIN	5.35	3.32	2.33	2.74	2.89	3.66	7.68	44.8	72.6	30.4	10.6	7.03
(WY)	1990	1990	1981	1981	1990	1990	1983	1995	1989	1994	1980	1980

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1980 - 1998	
ANNUAL TOTAL	16420.1		13283.6			
ANNUAL MEAN	45.0		36.4		a44.9	
HIGHEST ANNUAL MEAN					81.2	1996
LOWEST ANNUAL MEAN					27.2	1994
HIGHEST DAILY MEAN	446	Jun 1	412	Jun 2	786	Jun 6 1988
LOWEST DAILY MEAN	e5.4	Feb 8	e5.3	Mar 1	b1.8	Dec 20 1980
ANNUAL SEVEN-DAY MINIMUM	6.1	Feb 8	5.7	Mar 5	1.9	Dec 20 1980
INSTANTANEOUS PEAK FLOW			617	Jun 2	c1170	Jun 8 1985
INSTANTANEOUS PEAK STAGE			2.92	Jun 2	d2.33	Jun 8 1985
ANNUAL RUNOFF (AC-FT)	32570		26350		32500	
10 PERCENT EXCEEDS	130		89		118	
50 PERCENT EXCEEDS	20		14		13	
90 PERCENT EXCEEDS	6.6		6.7		5.0	

e-Estimated.
a-Average discharge for 16 years (water years 1951-1956, 1970-1979), 50.7 ft^3/s; 36730 acre-ft/yr, prior to diversion through Charles H. Boustead tunnel.
b-Also occurred Dec 21-22, 1980.
c-From rating curve extended above 300 ft^3/s.
d-Maximum gage height for period of record, 4.30 ft, Nov 30, 1984, backwater from ice.

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 mi^2.

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, 103,930 acre-ft, July 14, 1995, elevation, 7,767.55 ft; minimum after first filling, 32,430 acre-ft, Apr. 24, 1996, elevation, 7,670.17 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 100,410 acre-ft, August 13, elevation, 7,764.02 ft; minimum contents, 49,260 acre-ft, April 30, elevation, 7,700.04ft.

MONTHEND ELEVATION IN FEET ABOVE SEA LEVEL AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	7,758.80	95,350	-
Oct. 31	7,753.22	90,140	-5,210
Nov. 30	7,748.85	86,190	-3,950
Dec. 31	7,741.38	79,680	-6,510
CAL YR 1997	-	-	4,580
Jan. 31	7,733.11	72,850	-6,830
Feb. 28	7,724.11	65.880	-6,970
Mar. 31	7,710.25	55,980	-9,900
Apr. 30	7,700.04	49,260	-6,720
May 31	7,726.14	67,410	+18,150
June 30	7,752.41	89,400	+21,990
July 31	7,763.13	99,540	+10,140
Aug. 31	7,757.61	94,220	-5,320
Sept. 30	7,745.99	83,660	-10,560
WTR YR 1998	-	-	-11,690

09080400 FRYINGPAN RIVER NEAR RUEDI, CO

LOCATION.--Lat 39°21'56", long 106°49'30", in SE¼SE¼ sec.12, T.8 S., R.85 W., Pitkin County (revised), Hydrologic Unit 14010004, on right bank 0.4 mi downstream from Rocky Fork Creek and Ruedi Dam, 1.5 mi west of former site of Ruedi, and 12.5 mi east of Basalt.

DRAINAGE AREA.--238 mi^2.

PERIOD OF RECORD.--October 1964 to current year. Statistical summary computed for 1969 to current year.

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Datum of gage is 7,473.25 ft above sea level, (levels by U.S. Bureau of Reclamation). Prior to Nov. 7, 1970, at site 2.0 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation of hay meadows upstream from station. Transmountain diversions upstream from station to Arkansas River basin through Busk-Ivanhoe Tunnel since June 1925 and Charles H. Boustead Tunnel since May 16, 1972 (see elsewhere in this report). Flow regulated by Ruedi Reservoir (station 09080190) since May 18, 1968. Several observations 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	186	131	153	153	207	209	215	752	118	125	237
2	195	186	131	153	153	207	209	217	399	117	126	234
3	195	186	141	153	153	208	209	218	230	116	128	234
4	195	185	153	153	153	209	209	219	145	115	128	234
5	194	184	153	152	153	208	209	221	137	114	127	234
6	192	184	153	152	161	208	208	223	131	114	126	234
7	192	138	153	151	165	207	208	224	128	113	126	234
8	192	113	153	151	165	206	208	223	126	113	126	233
9	192	113	153	151	165	206	207	223	124	113	126	245
10	192	72	153	151	159	206	207	222	124	113	126	304
11	192	44	153	151	155	206	209	224	123	113	126	337
12	192	57	152	152	155	206	212	225	124	113	126	327
13	191	98	152	151	155	206	212	226	125	112	125	302
14	186	98	153	151	155	207	212	228	125	111	124	303
15	192	119	153	151	155	209	212	214	126	112	124	302
16	192	132	153	152	155	209	212	176	124	125	124	282
17	192	132	153	153	155	209	212	176	124	124	124	234
18	192	132	153	152	155	209	212	179	123	124	124	234
19	191	132	153	152	155	209	211	184	122	124	210	234
20	191	132	153	152	155	209	211	189	123	124	501	233
21	190	132	153	151	155	208	211	195	123	123	501	233
22	188	131	153	151	155	209	211	196	124	123	503	234
23	188	131	153	151	155	209	211	192	124	123	500	240
24	187	131	153	151	164	210	211	190	123	123	498	249
25	186	131	153	152	193	212	212	189	123	124	375	247
26	186	132	152	153	208	212	212	210	122	124	243	246
27	186	132	152	153	207	212	212	253	121	124	243	247
28	186	132	151	153	207	212	213	387	121	215	243	246
29	186	132	151	153	---	211	215	598	120	203	243	247
30	186	131	152	153	---	209	215	784	119	126	243	246
31	186	---	153	153	---	209	---	794	---	125	243	---
TOTAL	5900	3938	4678	4711	4574	6464	6321	8214	4755	3861	6807	7646
MEAN	190	131	151	152	163	209	211	265	159	125	220	255
MAX	195	186	153	153	208	212	215	794	752	215	503	337
MIN	186	44	131	151	153	206	207	176	119	111	124	233
AC-FT	11700	7810	9280	9340	9070	12820	12540	16290	9430	7660	13500	15170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1998, BY WATER YEAR (WY)

MEAN	148	127	139	135	138	148	167	282	372	271	161	145
MAX	366	185	224	228	250	280	370	669	950	812	242	255
(WY)	1970	1985	1996	1996	1996	1996	1971	1970	1984	1995	1995	1998
MIN	54.8	44.0	38.2	36.8	36.3	33.6	39.1	116	115	95.9	57.1	49.1
(WY)	1978	1969	1969	1969	1969	1977	1969	1990	1992	1977	1977	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1969 - 1998	
ANNUAL TOTAL	81238		67869			
ANNUAL MEAN	223		186		a186	
HIGHEST ANNUAL MEAN					288	1984
LOWEST ANNUAL MEAN					83.9	1977
HIGHEST DAILY MEAN	809	Jun 3	794	May 31	1390	Jun 25 1983
LOWEST DAILY MEAN	44	Nov 11	44	Nov 11	b28	Nov 14 1995
ANNUAL SEVEN-DAY MINIMUM	85	Nov 8	85	Nov 8	29	Mar 5 1981
INSTANTANEOUS PEAK FLOW			804	May 30	c1400	Sep 16 1976
INSTANTANEOUS PEAK STAGE			3.16	May 30	d3.50	Sep 16 1976
ANNUAL RUNOFF (AC-FT)	161100		134600		135000	
10 PERCENT EXCEEDS	423		235		306	
50 PERCENT EXCEEDS	188		165		154	
90 PERCENT EXCEEDS	128		123		82	

a-Subsequent to completion of Ruedi Reservoir.
b-Minimum daily discharge for period of record, 16 ft^3/s, Feb 2, 1968 (result of storage in Ruedi Reservoir); minimum daily discharge prior to construction of Ruedi Reservoir, 28 ft^3/s, Mar 4, 1966.
c-Maximum discharge and stage for period of record, 2690 ft^3/s, Jun 18, 1965, gage height 5.16 ft, site and datum then in use.
d-Maximum gage height for statistical period, 3.89 ft, Jun 24, 1983.

09081000 ROARING FORK RIVER NEAR EMMA, CO

LOCATION.--Lat 39°22'24", long 107°05'00", in SW¼NW¼ 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 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1908 to September 1909 (monthly discharge only, published in WSP 1313), March to September 1998.

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 diversions 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 8,070 ft^3/s, June 19, 1909, gage height, 10.4 ft, datum then in use; minimum daily, 175 ft^3/s, Jan. 12, Feb. 20, 27, 1909.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period March to September, 2,730 ft^3/s, June 2, gage height, 8.60 ft; minimum daily, 402 ft^3/s (estimated), Mar. 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	473	724	2390	1880	899	558
2	---	---	---	---	---	---	505	746	2280	1780	870	566
3	---	---	---	---	---	---	495	787	e2170	1710	786	547
4	---	---	---	---	---	---	499	851	e1900	1640	754	527
5	---	---	---	---	---	---	504	917	e1600	1610	749	507
6	---	---	---	---	---	---	507	912	e1300	1630	e700	493
7	---	---	---	---	---	---	502	852	e1100	1520	e680	485
8	---	---	---	---	---	---	495	817	e1050	1400	e640	478
9	---	---	---	---	---	---	486	821	1090	1410	e600	488
10	---	---	---	---	---	---	479	861	1110	1630	e560	e518
11	---	---	---	---	---	---	504	986	1100	1470	e530	e583
12	---	---	---	---	---	e402	553	962	1100	1340	e520	611
13	---	---	---	---	---	414	567	972	1310	1260	e506	592
14	---	---	---	---	---	422	547	1070	1200	1170	477	566
15	---	---	---	---	---	432	526	956	1220	1100	459	559
16	---	---	---	---	---	447	538	827	1140	1020	453	553
17	---	---	---	---	---	453	535	866	1180	983	448	465
18	---	---	---	---	---	455	541	951	1100	941	449	456
19	---	---	---	---	---	427	522	1140	1050	905	448	455
20	---	---	---	---	---	425	519	1280	1270	846	818	447
21	---	---	---	---	---	429	522	1470	1410	821	857	443
22	---	---	---	---	---	445	543	1510	1560	901	868	456
23	---	---	---	---	---	488	566	1260	1720	867	854	451
24	---	---	---	---	---	531	632	1250	1670	983	838	442
25	---	---	---	---	---	593	733	1180	1550	1140	784	432
26	---	---	---	---	---	607	666	1350	1710	1030	593	424
27	---	---	---	---	---	609	624	1510	1810	942	602	416
28	---	---	---	---	---	568	623	1760	1850	1020	594	413
29	---	---	---	---	---	533	643	2120	1900	1240	564	429
30	---	---	---	---	---	486	676	2410	1900	930	545	418
31	---	---	---	---	---	494	---	2370	---	861	530	---
TOTAL	---	---	---	---	---	---	16525	36488	44740	37980	19975	14778
MEAN	---	---	---	---	---	---	551	1177	1491	1225	644	493
MAX	---	---	---	---	---	---	733	2410	2390	1880	899	611
MIN	---	---	---	---	---	---	473	724	1050	821	448	413
AC-FT	---	---	---	---	---	---	32780	72370	88740	75330	39620	29310

e-Estimated.

09081000 ROARING FORK RIVER NEAR EMMA, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January to September 1998.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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 WHOLE TOTAL UREASE (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)
JAN											
29...	1140	332	339	8.8	0.4	12.8	90	K5	170	53	8.7
MAY											
12...	0925	993	294	8.2	6.6	11.0	42	38	140	45	7.1
JUN											
01...	1445	2210	200	8.1	10.8	8.6	40	K7	95	31	4.6
JUL											
30...	0835	959	302	8.1	11.0	8.3	67	37	--	--	--
AUG											
19...	1335	447	362	8.3	15.1	8.1	K21	K10	170	54	9.2

DATE	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 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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
JAN											
29...	3.4	0.1	0.9	90	86	1.9	0.2	7.2	216	0.29	194
MAY											
12...	2.9	0.1	0.9	89	56	1.5	0.1	7.1	174	0.24	466
JUN											
01...	2.1	0.1	0.7	64	39	1.1	0.2	6.5	124	0.17	739
JUL											
30...	--	--	--	--	--	--	--	--	--	--	--
AUG											
19...	3.6	0.1	1.3	110	70	1.9	0.2	8.0	214	0.29	259

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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
JAN								
29...	<0.01	0.14	0.03	0.1	<0.1	0.02	0.03	<0.01
MAY								
12...	<0.01	0.10	0.05	0.2	0.1	0.01	<0.01	0.01
JUN								
01...	0.02	0.10	0.04	<0.1	0.2	0.02	0.03	0.02
JUL								
30...	<0.01	0.16	<0.02	<0.1	<0.1	0.03	<0.01	0.01
AUG								
19...	0.01	0.17	0.06	0.1	<0.1	0.04	0.01	0.02

K-Based on non-ideal colony count.

09081000 ROARING FORK RIVER NEAR EMMA, CO-Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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)
JAN										
29...	<1.0	<1.0	50	<1.0	<10	<4.0	<0.1	<1	<0.20	<20
MAY										
12...	<1.0	<1.0	680	<1.0	30	5.3	<0.1	<1	<0.20	<20
JUN										
01...	<1.0	<1.0	350	<1.0	25	4.6	<0.1	<1	<0.20	<20
AUG										
19...	<1.0	<1.0	60	<1.0	13	5.6	<0.1	<1	<0.20	<20

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
MAR				
12...	0910	371	352	0.8

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
JAN				
29...	1140	332	2	1.9
MAY				
12...	0925	993	35	93
JUN				
01...	1445	2210	31	186
AUG				
19...	1335	447	6	7.4

09081600 CRYSTAL RIVER ABOVE AVALANCHE CREEK, NEAR REDSTONE, CO

LOCATION.--Lat 39°13'56", long 107°13'36", in SE¼SW¼ 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.

DRAINAGE AREA.--167 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,905 ft above sea level, from river-profile map.

REMARKS.--No estimated daily discharges. Records good. A few small diversions for irrigation upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	205	147	101	74	57	48	149	571	1450	1580	406	153
2	201	134	99	76	57	58	153	651	1570	1490	337	150
3	409	131	100	78	63	58	146	769	1590	1410	293	134
4	312	132	87	75	61	56	144	872	1410	1300	271	124
5	268	130	88	74	61	55	142	880	1120	1240	259	120
6	237	127	96	70	59	56	147	801	885	1250	241	116
7	228	124	100	57	60	56	142	728	770	1150	228	114
8	278	122	101	65	60	54	138	696	717	1050	214	111
9	250	126	97	59	63	54	133	708	738	1070	206	109
10	259	124	94	68	61	54	131	798	814	1040	206	106
11	285	125	84	71	56	55	149	889	844	948	201	110
12	285	129	72	70	62	56	177	837	924	898	186	149
13	261	119	72	68	59	61	179	887	1120	817	177	152
14	251	120	82	66	65	66	170	972	975	760	172	125
15	246	101	83	61	62	74	166	787	892	703	171	114
16	238	105	83	72	62	86	162	718	834	631	163	108
17	228	119	78	68	61	92	153	782	915	609	158	106
18	218	114	85	64	61	90	150	946	807	586	161	101
19	209	110	86	65	60	82	144	1090	822	560	165	97
20	201	110	78	65	58	80	145	1170	1040	525	153	94
21	189	107	77	59	62	84	158	1340	1180	490	152	91
22	176	103	84	58	62	94	193	1270	1380	502	147	90
23	172	102	73	71	64	121	265	1050	1480	453	140	92
24	179	103	72	65	64	175	352	1010	1390	476	139	89
25	167	102	72	67	67	243	406	975	1330	522	137	85
26	161	103	69	64	62	277	360	1110	1460	429	164	83
27	161	122	64	63	56	253	331	1180	1560	393	180	83
28	162	109	72	61	51	225	353	1350	1610	507	162	83
29	159	103	80	57	---	194	394	1510	1660	469	142	81
30	156	102	80	60	---	166	478	1560	1670	396	133	84
31	152	---	74	60	---	158	---	1460	---	356	132	---
TOTAL	6903	3505	2583	2051	1696	3281	6310	30367	34957	24610	5996	3254
MEAN	223	117	83.3	66.2	60.6	106	210	980	1165	794	193	108
MAX	409	147	101	78	67	277	478	1560	1670	1580	406	153
MIN	152	101	64	57	51	48	131	571	717	356	132	81
AC-FT	13690	6950	5120	4070	3360	6510	12520	60230	69340	48810	11890	6450

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1998, BY WATER YEAR (WY)

MEAN	100	73.2	56.8	50.0	49.5	67.1	194	768	1300	649	204	126
MAX	223	152	95.9	85.3	89.9	184	464	1223	2019	1872	640	253
(WY)	1998	1987	1986	1985	1986	1986	1962	1984	1957	1957	1995	1986
MIN	49.7	39.5	36.3	34.1	28.3	32.4	83.4	288	375	96.9	74.6	59.8
(WY)	1978	1978	1978	1978	1964	1964	1964	1977	1977	1977	1977	1956

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1956 - 1998	
ANNUAL TOTAL	149366		125513			
ANNUAL MEAN	409		344		304	
HIGHEST ANNUAL MEAN					468	1957
LOWEST ANNUAL MEAN					107	1977
HIGHEST DAILY MEAN	2130	Jun 2	1670	Jun 30	3500	Jun 25 1983
LOWEST DAILY MEAN	48	Jan 17	48	Mar 1	a22	Dec 5 1955
ANNUAL SEVEN-DAY MINIMUM	57	Feb 4	55	Feb 27	27	Feb 11 1964
INSTANTANEOUS PEAK FLOW			1910	Jun 30	4180	Jun 25 1983
INSTANTANEOUS PEAK STAGE			4.01	Jun 30	6.12	Jun 25 1983
ANNUAL RUNOFF (AC-FT)	296300		249000		220100	
10 PERCENT EXCEEDS	1370		1040		964	
50 PERCENT EXCEEDS	194		146		96	
90 PERCENT EXCEEDS	62		61		44	

a-Also occurred Feb 15, 1964, Jan 2 and Feb 17-18, 1978.

09081600 CRYSTAL RIVER ABOVE AVALANCHE CREEK, NEAR REDSTONE, CO--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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 WHOLE TOTAL UREASE (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)
OCT											
21...	1415	183	385	7.7	7.5	10.0	<1	--	170	55	7.3
JAN											
28...	1600	72	588	7.9	2.5	12.0	K1	K2	--	--	--
MAY											
12...	1345	777	259	8.0	9.0	9.7	K1	<1	120	38	6.2
JUN											
02...	1300	1450	172	7.9	9.0	8.5	K4	<1	77	25	3.7
JUL											
29...	1351	478	238	7.9	14.0	8.0	K13	K8	--	--	--
AUG											
19...	1035	165	392	7.8	12.5	9.6	16	12	170	56	7.1

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
OCT											
21...	12	0.4	1.0	121	99	--	86	3.8	0.2	6.9	233
JAN											
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
12...	6.1	0.2	0.8	--	--	95	35	1.3	0.1	6.3	151
JUN											
02...	3.8	0.2	0.5	--	--	68	18	0.7	0.1	5.0	98
JUL											
29...	--	--	--	--	--	--	--	--	--	--	--
AUG											
19...	12	0.4	1.2	--	--	99	88	3.6	0.2	6.9	235

DATE	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)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT										
21...	0.32	115	<0.01	0.10	<0.01	<0.2	<0.2	<0.01	<0.01	<0.01
JAN										
28...	--	--	0.01	0.10	0.04	<0.1	<0.1	<0.01	<0.01	<0.01
MAY										
12...	0.21	318	<0.01	0.09	0.03	0.2	<0.1	0.02	<0.01	<0.01
JUN										
02...	0.13	384	0.01	0.11	<0.02	<0.1	<0.1	<0.01	0.02	<0.01
JUL										
29...	--	--	<0.01	0.05	<0.02	<0.1	<0.1	<0.01	<0.01	<0.01
AUG										
19...	0.32	105	0.01	0.08	0.04	<0.1	<0.1	<0.01	<0.01	0.02

K-Based on non-ideal colony count.

09081600 CRYSTAL RIVER ABOVE AVALANCHE CREEK, NEAR REDSTONE, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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										
21...	<1	<1	220	<1	10	7	<0.1	<1	<1	<3
MAY										
12...	<1	<1	2700	<1	110	<4	<0.1	<1	<0.20	<20
JUN										
02...	<1	<1	2000	<1	50	<4	<0.1	<1	<0.20	<20
AUG										
19...	<1	<1	360	<1	20	<4	<0.1	<1	<0.20	<20

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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					JUN				
16...	1500	90	551	1.5	30...	1120	1460	154	7.0
MAR					AUG				
10...	1200	49	739	6.0	13...	1455	173	379	17.5

09085000 ROARING FORK RIVER AT GLENWOOD SPRINGS, CO

LOCATION.--Lat 39°32'37", long 107°19'44", in SW¼SE¼ 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 mi^2.

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 fair. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1090	995	739	602	564	571	808	2000	4850	4400	1660	1000
2	1080	951	723	617	558	591	855	2160	4950	4140	1590	1020
3	1480	928	732	634	584	635	826	2460	4930	3960	1410	960
4	1370	954	665	618	581	631	828	2750	4300	3760	1320	929
5	1220	935	679	603	594	622	823	2850	3570	3610	1280	902
6	1140	915	718	603	591	637	835	2650	2940	3630	1200	884
7	1100	896	736	558	598	633	828	2400	2550	3400	1130	860
8	1250	839	750	619	596	608	803	2230	2380	3090	1060	840
9	1190	849	731	588	600	615	787	2250	2270	3040	1020	828
10	1190	846	708	626	593	595	773	2390	2380	3330	1010	848
11	1240	791	668	638	554	617	808	2750	2410	3060	1010	911
12	1300	815	649	623	592	614	910	2600	2440	2790	963	1050
13	1220	799	692	601	560	626	946	2650	2980	2580	919	1050
14	1200	800	688	603	597	642	927	2930	2740	2390	891	978
15	1200	697	695	568	583	667	894	2510	2740	2270	864	918
16	1170	693	689	630	590	699	902	2130	2520	2050	874	903
17	1150	781	655	611	571	728	881	2200	2700	1980	864	836
18	1130	802	672	599	560	727	874	2510	2480	1890	857	810
19	1110	802	667	593	552	670	854	2940	2310	1840	845	806
20	1080	816	644	608	528	658	846	3210	2790	1760	1130	801
21	1040	800	638	553	548	665	858	3830	3180	1670	1270	785
22	1020	778	660	584	565	696	928	3940	3650	1760	1280	789
23	1000	736	628	633	578	776	1070	3180	4010	1710	1260	803
24	1090	766	627	591	573	928	1350	3010	3910	1870	1250	791
25	1080	768	652	605	613	1110	1600	2770	3550	2130	1250	785
26	1020	768	607	578	602	1230	1530	3080	3880	1970	1060	777
27	1020	821	612	574	592	1200	1410	3310	4190	1770	1060	760
28	1040	777	e673	577	574	1120	1460	3800	4280	1860	1060	750
29	1030	740	e693	567	---	1010	1550	4570	4380	2160	996	751
30	1020	732	654	585	---	884	1750	5090	4430	1730	963	751
31	1010	---	610	590	---	861	---	4930	---	1580	931	---
TOTAL	35280	24590	20954	18579	16191	23266	30514	92080	100690	79180	34277	25876
MEAN	1138	820	676	599	578	751	1017	2970	3356	2554	1106	863
MAX	1480	995	750	638	613	1230	1750	5090	4950	4400	1660	1050
MIN	1000	693	607	553	528	571	773	2000	2270	1580	845	750
AC-FT	69980	48770	41560	36850	32110	46150	60520	182600	199700	157100	67990	51330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1998, BY WATER YEAR (WY)

MEAN	743	677	580	513	486	548	839	2275	4186	2508	1011	746
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	371	315	298	352	593	1139	422	316	363
(WY)	1978	1978	1978	1978	1977	1977	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1972 - 1998	
ANNUAL TOTAL	631285		501477			
ANNUAL MEAN	1730		1374		a1261	
HIGHEST ANNUAL MEAN					2092	1984
LOWEST ANNUAL MEAN					485	1977
HIGHEST DAILY MEAN	7640	Jun 8	5090	May 30	b11800	Jul 12 1995
LOWEST DAILY MEAN	444	Feb 8	528	Feb 20	c,d248	Aug 11 1977
ANNUAL SEVEN-DAY MINIMUM	483	Feb 4	557	Feb 17	258	Aug 9 1977
INSTANTANEOUS PEAK FLOW			5530	Jun 2	f13000	Jul 13 1995
INSTANTANEOUS PEAK STAGE			5.74	Jun 2	g8.31	Jul 13 1995
ANNUAL RUNOFF (AC-FT)	1252000		994700		913800	
10 PERCENT EXCEEDS	4610		3020		3050	
50 PERCENT EXCEEDS	1040		902		682	
90 PERCENT EXCEEDS	508		594		438	

e-Estimated.
a-Average discharge for 65 years (water years 1906-09, 1911-71), 1368 ft^3/s; 991100 acre-ft/yr, prior to diversion through Charles H. Boustead tunnel.
b-Maximum daily discharge for period of record, 16600 ft^3/s, Jun 30, 1957.
c-Minimum daily discharge for period of record, 179 ft^3/s, Jan 21, 1935; minimum discharge during the day of Jan 21, 1935, 145 ft^3/s,gage height,0.65 ft.
d-Also occurred Aug 12, 1977.
f-Maximum discharge for period of record, 19000 ft^3/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.

09085000 ROARING FORK RIVER AT GLENWOOD SPRINGS, CO--Continued
WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1993 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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 WHOLE TOTAL UREASE (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												
21...	1100	1050	465	8.2	8.5	13.7	K11	--	200	63	11	17
JAN												
29...	0930	569	514	8.4	0.0	14.2	K7	--	--	--	--	--
MAY												
12...	1615	2480	294	8.2	10.5	9.7	K17	K9	130	42	7.0	7.6
JUN												
09...	1030	2370	315	8.1	9.5	9.3	50	31	140	44	7.2	9.1
JUL												
29...	1013	2390	358	8.1	13.0	8.4	250	180	--	--	--	--
AUG												
19...	0810	840	552	8.2	13.5	9.0	K75	68	230	72	12	22

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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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, 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												
21...	0.5	1.2	133	109	--	98	21	0.2	7.5	290	0.40	824
JAN												
29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
12...	0.3	1.0	--	--	95	46	5.6	0.1	8.2	175	0.24	1170
JUN												
09...	0.3	1.0	112	92	--	52	8.2	0.1	7.4	185	0.25	1180
JUL												
29...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
19...	0.6	1.7	--	--	144	100	27	0.2	9.7	333	0.45	756

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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT								
21...	<0.01	0.08	<0.01	<0.2	<0.2	<0.01	<0.01	<0.01
JAN								
29...	<0.01	0.14	0.04	0.1	0.1	<0.01	<0.01	0.02
MAY								
12...	<0.01	0.11	0.02	0.4	0.1	0.07	<0.01	0.01
JUN								
09...	<0.01	0.12	<0.02	0.1	0.1	<0.01	0.03	<0.01
JUL								
29...	<0.01	0.17	<0.02	0.3	<0.1	0.07	<0.01	<0.01
AUG								
19...	0.01	0.22	0.03	0.1	<0.1	0.02	<0.01	0.03

K-Based on non-ideal colony count.

09085000 ROARING FORK RIVER AT GLENWOOD SPRINGS, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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										
21...	<1	<1	60	<1	<10	4.5	<0.1	<1	<0.2	<3
MAY										
12...	<1	<1	1300	<1	45	5.3	<0.1	<1	<0.2	<20
JUN										
09...	<1	<1	380	<1	21	5.3	<0.1	<1	<0.2	<20
AUG										
19...	<1	<1	<10	<1	16	5.0	<0.1	<1	<0.2	<20

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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					APR				
08...	1405	1300	472	9.0	06...	1050	834	497	6.5
NOV					MAY				
19...	1455	776	525	4.0	20...	1235	3190	264	9.0
JAN					JUN				
07...	1330	560	542	0.0	01...	1330	4960	238	9.0
FEB					JUL				
17...	1020	549	545	3.5	06...	1535	3590	274	14.0

09085100 COLORADO RIVER BELOW GLENWOOD SPRINGS, CO

LOCATION.--Lat 39°33'18", long 107°20'13", in NW¼NW¼ 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 mi^2.

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. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2900	2660	1960	2050	1910	1770	2550	5040	12000	8040	4450	2620
2	2870	2570	2010	2110	1880	1930	2590	5290	12000	7800	4470	2740
3	3370	2480	2060	2190	1920	2000	2690	5770	11400	7670	4050	2710
4	3290	2460	1870	2160	1910	1950	2780	6420	10200	7320	3910	2600
5	3130	2450	1720	2080	1920	1940	2840	6830	8970	6870	3940	2520
6	3010	2420	1950	2020	1950	1890	2770	6680	7920	6680	3800	2460
7	2960	2410	2140	1890	1950	1930	2840	6400	6860	6370	3650	2410
8	3160	2310	2230	1890	1930	1870	2640	6260	6330	5790	3420	2370
9	3150	2270	2270	1910	1930	1780	2620	6460	6050	5610	3150	2360
10	3100	2230	2310	1990	1900	1840	2610	6640	6010	6050	3120	2350
11	3170	2190	2050	2120	1810	1900	2650	7400	5930	5920	3170	2440
12	3290	2260	1710	2090	1860	1900	2930	7340	5860	5520	3060	2690
13	3230	2260	1670	2050	1850	1930	3040	7380	6390	5080	2780	2750
14	3210	2210	1800	2010	1920	1970	2990	7780	6150	4630	2730	2720
15	3220	1880	1930	1900	1920	2040	2910	7330	6140	4470	2670	2640
16	3170	1680	2070	2030	1910	2160	2880	6530	5750	4060	2680	2620
17	3150	1910	2130	2030	1910	2240	2810	6380	5820	3990	2670	2500
18	3030	2190	2170	2020	1900	2320	2770	6790	5600	3930	2660	2420
19	3050	2160	2170	1980	1870	2230	2740	7640	5360	3910	2730	2360
20	2930	2200	2070	2000	1820	2130	2720	8280	5800	3770	2920	2340
21	2770	2150	1960	1870	1840	2110	2750	9400	6290	3580	3010	2360
22	2650	2080	2050	1780	1880	2170	2900	9820	6960	3530	3050	2340
23	2660	1990	2000	1870	1890	2410	2990	8510	7610	3690	3020	2370
24	2750	2040	1940	1980	1900	2880	3500	7820	7450	4120	2960	2380
25	2790	2090	1910	2030	1970	3470	4120	7260	6860	4520	2840	2380
26	2650	1950	1850	1980	1910	3770	4080	7510	7160	4450	2540	2350
27	2600	2150	1780	1910	1860	3640	3860	8010	7540	4010	2580	2360
28	2600	2120	1760	1920	1790	3410	3870	9150	7730	3930	2820	2340
29	2680	2030	1950	1890	---	3180	4040	10800	7810	4420	2780	2340
30	2690	1930	2170	1910	---	2910	4460	11900	8060	4170	2680	2270
31	2690	---	2140	1950	---	2710	---	12000	---	4140	2560	---
TOTAL	91920	65730	61800	61610	53010	72380	91940	236820	220010	158040	96870	74110
MEAN	2965	2191	1994	1987	1893	2335	3065	7639	7334	5098	3125	2470
MAX	3370	2660	2310	2190	1970	3770	4460	12000	12000	8040	4470	2750
MIN	2600	1680	1670	1780	1790	1770	2550	5040	5360	3530	2540	2270
AC-FT	182300	130400	122600	122200	105100	143600	182400	469700	436400	313500	192100	147000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1998, BY WATER YEAR (WY)

MEAN	2120	1912	1618	1521	1505	1744	2772	7137	10610	5818	2917	2284
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
MIN	1394	1186	1162	1142	1023	1018	1571	2146	2781	1755	1674	1647
(WY)	1978	1978	1967	1995	1981	1977	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1967 - 1998	
ANNUAL TOTAL	1830090		1284240			
ANNUAL MEAN	5014		3518		3501	
HIGHEST ANNUAL MEAN					6276	1984
LOWEST ANNUAL MEAN					1638	1977
HIGHEST DAILY MEAN	22900	Jun 5	a12000	May 31	30200	May 25 1984
LOWEST DAILY MEAN	b1470	Feb 9	1670	Dec 13	870	Feb 11 1981
ANNUAL SEVEN-DAY MINIMUM	1500	Feb 28	1870	Feb 23	978	Mar 10 1977
INSTANTANEOUS PEAK FLOW			12800	Jun 2	31500	May 25 1984
INSTANTANEOUS PEAK STAGE			8.06	Jun 2	12.49	May 25 1984
ANNUAL RUNOFF (AC-FT)	3630000		2547000		2537000	
10 PERCENT EXCEEDS	14400		6910		8080	
50 PERCENT EXCEEDS	2920		2660		2110	
90 PERCENT EXCEEDS	1660		1900		1340	

a-Also occurred Jun 1-2.
b-Also occurred Feb 10, Mar 1 and 5.

09089500 WEST DIVIDE CREEK NEAR RAVEN, CO

LOCATION.--Lat 39°19'52", long 107°34'46", in NE¼SW¼ 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 mi^2.

PERIOD OF RECORD.--October 1955 to current year. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	14	e11	e8.0	e5.0	e3.6	e40	359	262	108	26	6.0
2	8.7	12	e10	e8.2	e4.9	e3.4	e37	428	255	118	22	5.2
3	30	15	e11	e8.4	e5.0	e3.9	e37	542	246	110	18	4.1
4	21	14	e9.4	e8.2	e5.2	e4.0	e36	615	237	108	19	3.3
5	16	12	e9.4	e8.1	e5.0	e3.8	e38	578	207	99	17	2.9
6	14	12	e10	e7.6	e4.8	e3.8	e37	632	171	106	15	2.6
7	12	12	e11	e6.4	e5.0	e3.9	e36	509	157	96	13	2.4
8	18	11	e11	e7.2	e5.0	e3.9	e35	469	152	91	11	2.3
9	18	12	e10	e6.5	e5.2	e3.8	34	427	149	78	10	2.3
10	19	13	e10	e7.6	e5.1	e3.7	37	448	142	84	9.7	2.3
11	20	13	e9.2	e7.8	e4.7	e3.8	53	483	141	85	9.8	2.4
12	22	14	e8.0	e7.6	e4.9	e4.0	68	456	140	69	9.0	9.5
13	20	13	e8.0	e7.4	e4.7	e4.3	60	494	139	59	7.7	8.8
14	20	11	e9.0	e7.2	e4.8	e5.0	54	533	141	50	7.1	4.6
15	20	e10	e9.0	e6.6	e4.7	e5.8	49	399	144	43	6.5	3.6
16	20	e11	e9.0	e7.8	e4.7	e9.0	46	351	135	39	6.1	3.2
17	19	e13	e8.5	e7.2	e4.4	e17	44	398	139	35	5.9	3.0
18	19	e12	e9.1	e6.6	e4.5	e16	44	464	130	32	5.4	2.7
19	18	e12	e9.3	e6.6	e4.3	e8.4	45	487	121	28	5.7	2.5
20	17	e12	e8.5	e6.6	e4.2	e7.8	49	488	123	25	5.4	2.3
21	16	e12	e8.4	e5.7	e4.0	e8.8	63	578	124	23	5.0	2.2
22	15	e11	e9.0	e5.6	e4.3	e11	91	458	126	28	5.0	2.0
23	14	e11	e8.0	e6.4	e4.4	e27	137	357	119	27	4.4	2.2
24	17	e11	e7.8	e6.1	e4.3	e64	183	311	111	42	3.8	2.3
25	16	e11	e7.8	e6.2	e4.4	e70	193	276	102	35	4.0	2.1
26	18	e11	e7.4	e6.0	e4.5	e62	171	292	98	34	4.1	1.9
27	20	e13	e7.0	e6.0	e4.3	e56	183	296	96	30	4.0	1.8
28	19	e12	e8.0	e5.8	e4.0	e50	230	322	92	32	3.6	1.8
29	16	e11	e8.6	e5.4	---	e44	283	332	92	35	3.0	1.8
30	15	e11	e8.6	e5.5	---	e42	302	325	113	25	2.6	2.1
31	15	---	e8.0	e5.2	---	e39	---	284	---	21	3.0	---
TOTAL	541.7	362	279.0	211.5	130.3	592.7	2715	13391	4404	1795	271.8	96.2
MEAN	17.5	12.1	9.00	6.82	4.65	19.1	90.5	432	147	57.9	8.77	3.21
MAX	30	15	11	8.4	5.2	70	302	632	262	118	26	9.5
MIN	8.7	10	7.0	5.2	4.0	3.4	34	276	92	21	2.6	1.8
AC-FT	1070	718	553	420	258	1180	5390	26560	8740	3560	539	191

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1998, BY WATER YEAR (WY)

MEAN	3.51	3.43	2.85	2.59	2.64	6.82	49.6	209	130	27.6	4.60	2.56
MAX	17.5	13.1	9.05	8.07	7.76	29.3	146	491	389	84.9	24.8	10.4
(WY)	1998	1987	1985	1985	1986	1986	1985	1984	1995	1995	1983	1970
MIN	.097	.28	.002	.000	.000	.81	9.32	18.4	5.37	.075	.000	.000
(WY)	1957	1957	1977	1977	1977	1977	1968	1977	1977	1977	1977	1956

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1956 - 1998	
ANNUAL TOTAL	21518.8		24790.2			
ANNUAL MEAN	59.0		67.9		37.3	
HIGHEST ANNUAL MEAN					76.2	1984
LOWEST ANNUAL MEAN					3.38	1977
HIGHEST DAILY MEAN	546	May 18	632	May 6	932	May 14 1984
LOWEST DAILY MEAN	e2.7	Jan 7	a1.8	Sep 27	b.00	Oct 1 1955
ANNUAL SEVEN-DAY MINIMUM	3.4	Jan 5	2.0	Sep 24	.00	Jul 21 1956
INSTANTANEOUS PEAK FLOW			876	May 3	c1410	May 14 1984
INSTANTANEOUS PEAK STAGE			4.71	May 3	5.83	May 14 1984
ANNUAL RUNOFF (AC-FT)	42680		49170		27000	
10 PERCENT EXCEEDS	198		241		122	
50 PERCENT EXCEEDS	14		12		4.0	
90 PERCENT EXCEEDS	4.2		3.9		.70	

e-Estimated.
a-Also occurred Sep 28-29.
b-No flow at times in most years.
c-From rating curve extended above 670 ft^3/s.

09095300 DRY FORK AT UPPER STATION, NEAR DE BEQUE, CO

LOCATION.--Lat 39°22'29", long 108°19'02", in SE¼NW¼ 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 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1995 to September 1998 (discontinued).

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	5.4	4.8	4.9	4.6	e5.0	13	18	5.4	9.7	7.8	1.2
2	4.9	5.3	4.8	4.9	4.4	e5.0	15	22	5.2	9.6	7.6	1.1
3	9.0	5.3	4.5	4.5	4.8	e5.0	13	32	5.8	11	6.6	1.4
4	5.3	5.4	e4.5	4.5	4.9	e5.5	12	42	6.4	11	6.2	1.3
5	5.0	5.2	e4.5	4.4	6.1	5.8	11	46	7.5	11	6.0	1.1
6	4.9	5.1	e4.5	4.1	7.1	e8.0	11	47	7.3	11	5.9	1.2
7	23	5.1	4.6	e4.3	7.6	5.4	11	45	6.2	12	5.7	1.5
8	28	5.1	5.0	e4.6	6.5	e8.0	12	44	5.0	12	5.5	1.4
9	7.4	5.3	4.7	e4.9	5.8	5.2	12	44	4.8	12	5.5	1.3
10	6.5	5.2	4.4	5.2	4.8	5.7	11	43	4.6	12	5.5	1.5
11	6.0	5.7	e4.4	5.4	e4.7	5.5	11	41	4.3	12	5.3	1.6
12	7.1	6.5	e4.4	5.4	e4.7	7.5	11	37	3.7	9.8	5.0	3.7
13	6.7	5.8	e4.4	5.2	e4.6	10	12	34	3.2	3.9	4.7	2.8
14	5.7	5.1	e4.4	5.1	4.6	14	13	34	3.0	2.8	4.6	1.9
15	5.3	e5.0	e4.4	e5.2	6.2	17	14	29	2.9	2.3	4.5	1.5
16	5.0	e4.9	e4.4	5.3	5.6	17	11	25	3.0	1.5	4.5	2.4
17	5.2	4.8	e4.4	5.6	4.7	16	7.4	23	4.1	.99	4.1	2.3
18	5.3	4.9	e4.4	5.5	4.2	13	5.3	20	3.1	1.3	4.2	1.9
19	5.4	5.0	4.4	5.4	3.9	8.0	4.1	20	2.7	1.3	4.2	1.7
20	6.0	4.9	e4.5	5.3	e3.9	8.6	4.5	21	2.6	1.1	2.8	1.9
21	5.8	4.7	e4.5	e5.2	e3.8	9.2	4.6	22	2.4	1.5	4.1	1.9
22	5.8	4.7	4.5	e5.2	3.7	12	3.8	19	2.7	12	4.9	2.0
23	5.9	e4.7	e4.5	5.1	4.1	22	4.1	16	3.0	e8.6	3.2	2.6
24	7.9	e4.7	e4.6	4.7	13	25	4.7	16	2.9	e6.0	2.0	2.4
25	6.6	4.7	e4.6	4.8	8.8	28	5.4	15	2.8	e8.0	1.0	e2.4
26	5.8	4.8	e4.7	5.0	e5.0	28	5.9	12	3.4	e10	.39	e2.4
27	5.9	5.3	e4.7	5.0	e5.0	22	6.8	10	6.4	e9.0	.41	e2.4
28	5.8	4.8	e4.8	e4.9	e5.0	30	9.1	8.3	7.3	e8.0	.57	e2.4
29	5.7	4.6	e4.8	e4.8	---	20	8.9	6.6	7.8	e7.0	.84	e2.4
30	5.5	4.7	e4.9	4.7	---	13	15	6.0	9.1	e6.3	.88	e2.4
31	5.5	---	e4.9	4.9	---	12	---	5.6	---	7.8	.97	---
TOTAL	222.6	152.7	141.9	154.0	152.1	396.4	282.6	803.5	138.6	232.49	125.46	58.0
MEAN	7.18	5.09	4.58	4.97	5.43	12.8	9.42	25.9	4.62	7.50	4.05	1.93
MAX	28	6.5	5.0	5.6	13	30	15	47	9.1	12	7.8	3.7
MIN	4.7	4.6	4.4	4.1	3.7	5.0	3.8	5.6	2.4	.99	.39	1.1
AC-FT	442	303	281	305	302	786	561	1590	275	461	249	115

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1998, BY WATER YEAR (WY)

MEAN	4.02	3.86	3.23	3.68	6.13	8.57	4.24	9.46	2.59	3.30	2.64	3.35
MAX	7.18	5.09	4.58	4.97	9.42	12.8	9.42	25.9	4.62	7.50	4.05	6.69
(WY)	1998	1998	1998	1998	1996	1998	1998	1998	1998	1998	1998	1997
MIN	1.56	3.06	2.24	2.61	3.42	4.07	1.38	.97	.97	1.16	1.55	1.44
(WY)	1997	1997	1997	1996	1997	1996	1996	1996	1996	1996	1996	1996

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1996 - 1998	
ANNUAL TOTAL	1475.55		2860.35			
ANNUAL MEAN	4.04		7.84		4.59	
HIGHEST ANNUAL MEAN					7.84	1998
LOWEST ANNUAL MEAN					2.74	1996
HIGHEST DAILY MEAN	44	Sep 20	47	May 6	95	Feb 22 1996
LOWEST DAILY MEAN	e,a.00	Jun 17	.39	Aug 26	e,a.00	Jun 17 1997
ANNUAL SEVEN-DAY MINIMUM	.02	Jun 17	.72	Aug 25	.02	Jun 17 1997
INSTANTANEOUS PEAK FLOW			172	Jul 22	b235	Feb 22 1996
INSTANTANEOUS PEAK STAGE			4.58	Jul 22	c4.50	Feb 22 1996
ANNUAL RUNOFF (AC-FT)	2930		5670		3330	
10 PERCENT EXCEEDS	6.5		15		8.4	
50 PERCENT EXCEEDS	2.8		5.2		2.9	
90 PERCENT EXCEEDS	.82		2.4		.90	

e-Estimated.
a-Also occurred Jun 18-19, 1997
b-From slope-conveyance calculation.
c-Maximum gage height, 4.63 ft, Sep 20, 1997.

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 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1996 to September 1998 (discontinued).

INSTRUMENTATION.--Water temperature sensor and logger October 1996 to September 1998 (discontinued).

REMARKS.--Upper Colorado River Basin National Water Quality Assessment Program station (NAWQA). Daily water temperature data are good. Data not published are missing or of unacceptable quality.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum 30.3°C, July 21, 1997; minimum 0.0°C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 24.3°C, July 18, Aug. 26; minimum, 0.0°C on many days November to February.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT												
06...	1345	5.1	2320	8.7	14.0	8.1	760	100	120	290	5	3.0
NOV												
04...	1040	5.3	2080	8.6	3.5	11.0	660	93	100	240	4	2.2
DEC												
09...	1130	4.9	2060	8.6	2.0	11.0	680	94	110	250	4	2.2
JAN												
06...	0950	4.2	2080	8.6	1.0	12.0	690	98	110	260	4	2.3
FEB												
09...	1110	4.9	2030	8.6	2.0	11.2	670	96	100	250	4	2.7
MAR												
06...	1245	12	1680	8.6	3.5	10.5	470	77	69	200	4	3.3
17...	2100	27	1020	8.4	6.0	10.0	260	45	36	120	3	2.7
APR												
20...	1400	4.9	2560	8.4	10.5	9.1	850	120	130	310	5	3.1
MAY												
05...	1100	47	1400	8.5	9.0	9.0	490	79	72	130	3	2.9
JUN												
03...	1100	5.4	2410	8.5	13.5	8.7	790	110	120	300	5	3.8
22...	1415	2.9	2630	8.3	21.0	8.0	830	100	140	330	5	2.9
JUL												
13...	1425	3.9	2560	8.3	20.0	7.4	870	120	140	310	5	5.4
AUG												
12...	1145	5.3	2170	8.3	15.0	8.6	740	100	120	250	4	2.5
SEP												
09...	1315	1.4	3110	8.4	17.5	8.5	1000	110	170	430	6	3.9

09095300 DRY FORK AT UPPER STATION NEAR DEBEQUE, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	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)
OCT												
06...	459	8	390	910	10	0.3	18	1730	1700	2.35	23.7	<0.01
NOV												
04...	427	22	386	780	8.5	0.3	17	1560	1490	2.12	22.3	0.03
DEC												
09...	426	18	379	790	8.5	0.3	16	1560	1500	2.12	20.6	<0.01
JAN												
06...	450	7	381	790	11	0.3	16	1570	1510	2.14	17.8	<0.01
FEB												
09...	421	10	361	750	8.9	0.3	15	1560	1450	2.12	20.6	<0.01
MAR												
06...	273	6	234	630	7.1	0.3	9.7	1200	1130	1.63	39.2	0.01
17...	199	--	163	340	4.2	0.2	7.4	724	653	0.98	51.8	<0.01
APR												
20...	475	17	417	1100	12	0.4	15	2030	1920	2.76	27.0	<0.01
MAY												
05...	431	14	377	420	5.3	0.4	17	996	954	1.35	126	<0.01
JUN												
03...	534	31	490	910	9.2	0.3	16	1820	1770	2.48	26.5	0.04
22...	449	26	412	1000	11	0.3	14	1990	1890	2.70	15.6	<0.01
JUL												
13...	537	11	458	1000	11	0.4	16	1940	1890	2.64	20.5	0.02
AUG												
12...	493	10	420	830	10	0.3	17	1600	1580	2.18	22.9	0.01
SEP												
09...	539	14	466	1300	13	0.4	14	2450	2360	3.34	9.01	0.01

DATE	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)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)
OCT												
06...	0.42	<0.01	0.4	0.2	0.05	<0.01	<0.01	5.1	0.3	<9	34	3
NOV												
04...	0.41	<0.02	0.2	0.1	0.02	<0.01	<0.01	3.9	0.5	<9	30	2
DEC												
09...	0.33	<0.02	0.3	0.1	0.02	<0.01	0.02	4.3	0.4	13	35	2
JAN												
06...	0.42	<0.02	0.3	0.2	0.08	0.03	0.06	4.1	0.5	<30	39	2
FEB												
09...	0.30	<0.02	0.5	0.2	0.14	<0.01	0.03	5.0	1.0	<30	46	3
MAR												
06...	0.32	<0.02	2.8	0.3	1.3	<0.01	0.02	6.5	>17	<10	18	2
17...	0.23	0.03	4.6	0.3	2.9	0.04	0.04	6.2	3.0	15	<4	2
APR												
20...	0.48	0.03	0.5	0.2	0.08	0.02	0.01	5.7	2.4	<30	27	5
MAY												
05...	0.45	0.04	<0.1	0.3	<0.01	<0.01	<0.01	5.9	11	<10	18	8
JUN												
03...	0.53	0.05	0.9	0.3	0.30	<0.01	0.01	5.8	1.5	<10	38	9
22...	0.55	0.03	0.6	0.3	0.10	<0.01	<0.01	5.9	0.8	<30	17	8
JUL												
13...	0.97	0.05	0.9	0.4	0.23	0.03	0.02	7.5	4.1	<30	22	9
AUG												
12...	0.89	0.06	0.3	0.3	0.02	<0.01	0.02	5.4	0.4	<30	21	6
SEP												
09...	0.92	0.06	0.4	0.4	0.04	<0.01	0.01	6.5	0.2	<30	23	5

09095300 DRY FORK AT UPPER STATION NEAR DEBEQUE, CO--Continued

(National Water-Quality Assessment Program station)

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 0.062 MM (70331)	SAMPLER[C] TYPE (CODE) (84164)
OCT						
06...	1345	5.1	a183	2.5	--	3044
NOV						
04...	1040	5.3	a112	1.6	--	3044
DEC						
09...	1130	4.9	a89	1.2	--	8010
JAN						
06...	0950	4.2	a123	1.4	--	8010
FEB						
09...	1110	4.9	a341	4.5	--	3044
MAR						
06...	1245	12	a4070	133	--	8010
06...	1255	12	b5650	185	74	8010
17...	2100	27	a10600	761	--	3044
17...	2120	27	b12200	873	64	3044
APR						
20...	1400	4.9	a456	6.1	--	8010
20...	1401	4.9	a459	6.1	--	8010
MAY						
05...	1100	47	a6800	863	--	3044
05...	1120	49	b7550	995	86	3044
JUN						
03...	1100	5.4	a566	8.3	--	3044
22...	1415	2.9	a253	2.0	--	8010
JUL						
13...	1425	3.9	a455	4.8	--	8010
AUG						
12...	1145	5.3	a123	1.8	--	8010
SEP						
09...	1315	1.4	a12	0.04	--	8010

a-Suspended-sediment concentration determined from a subsample split of a composite sample.
b-Suspended-sediment concentration determined from an equal-width-increment sample not split.
c-Sampler type: code 3044 is a suspended-sediment and water-quality sampler; code 8010 is a 1 or 3-liter bottle.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.3	9.2	12.6	7.2	3.1	5.1	4.4	1.3	2.7	1.9	.0	.8
2	17.1	10.4	13.4	6.3	1.7	3.9	4.4	2.4	3.4	2.5	.3	1.2
3	17.1	12.1	14.1	6.3	1.1	3.6	3.1	.0	1.8	3.5	1.3	2.4
4	15.7	8.9	12.1	6.7	1.7	4.2	.3	.0	.0	3.6	1.9	2.5
5	16.2	9.1	12.4	7.4	2.0	4.5	1.4	.0	.1	3.1	1.7	2.3
6	16.0	9.4	12.4	7.4	2.2	4.6	2.2	.0	.5	2.2	.0	1.4
7	12.9	9.5	11.0	7.1	2.0	4.4	2.2	.0	1.2	1.4	.0	.3
8	10.4	7.2	8.8	7.7	3.0	5.1	2.8	1.1	1.8	1.4	.0	.2
9	12.1	5.0	8.2	6.1	3.9	5.2	3.3	1.4	2.1	.5	.0	.0
10	13.7	6.6	9.9	5.5	3.0	4.2	1.9	.0	.9	1.6	.3	1.0
11	11.1	8.8	9.9	5.7	3.8	4.6	.0	.0	.0	2.8	1.4	2.1
12	8.9	5.5	7.4	6.7	3.8	5.0	.0	.0	.0	3.8	2.2	2.8
13	8.9	2.7	5.5	6.0	3.1	4.3	.0	.0	.0	3.3	2.2	2.5
14	10.0	3.3	6.5	4.3	.0	2.3	.0	.0	.0	2.5	.1	1.4
15	11.2	4.4	7.5	.9	.0	.0	.0	.0	.0	1.9	.0	.8
16	11.4	4.7	7.8	1.9	.0	.4	.0	.0	.0	3.5	1.3	2.1
17	11.5	5.0	8.0	3.1	.3	1.3	.0	.0	.0	4.1	2.2	2.8
18	11.4	4.7	7.9	3.1	.0	1.3	1.7	.0	.4	3.6	1.6	2.3
19	11.4	5.0	8.0	4.6	.6	2.4	1.9	.1	.9	2.7	.6	1.8
20	11.2	5.5	8.2	4.3	2.4	3.2	.6	.0	.1	2.7	.0	1.2
21	11.1	5.3	8.0	3.1	1.1	2.1	1.4	.0	.3	1.9	.0	.2
22	10.4	4.7	7.4	2.5	.0	1.2	2.0	.1	.8	.3	.0	.0
23	8.0	4.3	6.3	2.5	.0	1.0	.6	.0	.0	2.0	.0	.6
24	6.7	4.0	5.3	2.5	.0	1.0	1.4	.0	.4	2.5	.0	1.0
25	4.6	2.0	3.2	4.4	.5	2.2	.4	.0	.0	3.0	.0	1.2
26	5.0	.5	2.7	4.6	1.4	2.9	.0	.0	.0	2.7	.0	1.0
27	6.4	.9	3.4	5.3	3.9	4.6	.0	.0	.0	2.8	.0	1.1
28	7.7	2.0	4.6	4.9	2.2	3.6	.0	.0	.0	2.7	.0	.9
29	8.4	3.1	5.7	3.3	.3	1.7	.0	.0	.0	2.7	.0	1.0
30	8.6	3.9	6.2	3.1	.0	1.5	1.3	.0	.2	3.9	1.1	2.2
31	8.4	3.5	5.9	---	---	---	1.7	.0	.5	4.3	1.6	2.8
MONTH	17.1	.5	8.1	7.7	.0	3.0	4.4	.0	.6	4.3	.0	1.4

09095300 DRY FORK AT UPPER STATION NEAR DEBEQUE, CO--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.1	.0	1.3	1.3	.1	.3	11.8	1.8	6.5	17.6	6.8	11.6
2	2.7	.8	1.6	2.8	.1	1.1	7.3	4.5	5.6	16.6	8.4	12.1
3	4.4	1.6	2.7	6.0	1.3	2.8	10.2	4.0	6.6	17.1	7.4	11.7
4	4.4	1.9	3.0	6.3	1.7	3.3	11.2	4.2	7.4	16.1	6.5	10.9
5	4.7	2.2	3.3	5.2	.3	3.0	13.3	4.2	8.3	13.9	7.3	10.4
6	5.0	1.9	2.9	---	---	---	12.7	5.3	8.2	14.7	8.5	11.0
7	4.1	2.0	2.9	---	---	---	9.8	4.5	6.8	12.1	7.3	9.9
8	3.5	2.0	2.8	---	---	---	8.8	4.3	6.5	12.9	6.5	9.6
9	3.9	.8	2.3	---	---	---	12.2	3.4	7.3	14.6	7.0	10.6
10	3.9	.0	1.6	---	---	---	14.2	3.4	8.3	14.6	8.1	11.3
11	1.7	.0	.5	---	---	---	15.0	4.5	9.5	15.2	8.2	11.5
12	2.7	.0	.9	---	---	---	10.5	6.9	8.5	14.1	7.7	11.0
13	2.7	.0	.9	---	---	---	9.3	5.0	6.9	14.9	9.3	11.6
14	5.0	1.4	3.0	---	---	---	8.4	4.6	6.3	12.7	8.1	10.3
15	4.6	2.0	2.9	---	---	---	10.7	4.3	6.8	13.5	7.1	10.2
16	4.7	1.7	2.8	---	---	---	7.6	4.3	6.0	13.0	7.9	10.6
17	4.6	2.1	3.2	---	---	---	9.9	4.5	6.9	14.6	8.7	11.3
18	4.7	.9	2.6	---	---	---	13.2	4.0	7.8	16.4	9.3	12.4
19	4.4	.0	1.8	---	---	---	12.7	2.8	7.8	15.2	10.5	12.9
20	3.6	.0	1.4	---	---	---	14.2	4.3	8.8	16.0	11.0	13.3
21	4.7	.0	2.0	---	---	---	16.4	4.2	9.6	15.2	11.3	13.0
22	4.3	1.3	2.6	---	---	---	18.4	4.6	10.6	12.2	9.0	10.8
23	3.9	1.3	2.5	---	---	---	18.8	5.7	11.5	---	---	---
24	4.6	.5	2.2	---	---	---	14.1	8.2	10.7	---	---	---
25	3.1	.5	1.5	---	---	---	12.9	6.5	9.5	---	---	---
26	2.2	.1	.8	---	---	---	12.9	6.5	9.5	---	---	---
27	1.4	.1	.4	---	---	---	15.3	5.7	9.9	---	---	---
28	.3	.1	.1	---	---	---	16.1	5.3	9.9	---	---	---
29	---	---	---	---	---	---	17.9	5.7	11.1	---	---	---
30	---	---	---	---	---	---	17.6	6.4	11.2	---	---	---
31	---	---	---	11.2	---	---	---	---	---	---	---	---
MONTH	5.0	.0	2.0	---	---	---	18.8	1.8	8.3	---	---	---

		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	22.3	12.1	17.0	20.6	13.9	16.8	19.0	14.6	16.8
2	---	---	---	21.4	12.4	17.0	20.0	12.1	15.8	21.3	13.6	17.1
3	20.5	---	---	21.9	12.4	16.9	21.3	13.2	16.7	21.6	13.2	17.3
4	15.7	11.2	12.8	21.8	14.4	17.6	21.4	13.3	16.9	20.9	13.6	17.5
5	15.3	10.2	12.3	23.1	13.3	17.8	22.6	13.0	17.1	21.9	14.9	18.4
6	17.4	8.7	12.7	21.6	15.0	18.3	22.4	12.5	16.8	20.9	14.4	17.8
7	17.2	10.1	13.5	19.5	13.2	16.4	22.6	12.5	16.9	21.4	14.9	18.1
8	18.5	10.5	14.0	21.4	12.9	16.9	20.9	12.9	16.8	20.1	15.0	17.4
9	17.4	10.5	13.7	19.0	13.5	16.3	21.6	14.1	17.1	---	13.5	---
10	15.5	10.7	12.9	19.8	14.2	16.5	18.4	13.9	15.8	---	---	---
11	18.8	9.0	13.3	22.4	12.7	17.0	20.8	13.2	16.6	---	---	---
12	19.3	9.8	14.2	22.9	13.0	17.6	20.9	12.5	16.3	---	---	---
13	18.2	11.3	14.2	22.8	13.0	17.4	21.8	12.4	16.5	---	---	---
14	17.9	11.6	14.2	23.6	13.3	18.0	21.9	12.9	16.8	---	---	---
15	18.5	9.0	13.8	23.3	13.0	17.7	21.1	13.2	16.8	---	---	---
16	14.7	11.5	13.0	24.0	12.7	17.7	20.6	13.0	16.6	---	---	---
17	13.5	9.4	11.3	23.6	12.7	17.9	21.1	13.6	17.1	---	---	---
18	20.3	9.3	13.9	24.3	13.0	18.1	20.3	13.9	16.8	---	---	---
19	21.6	10.1	15.2	24.1	13.3	18.2	21.8	12.9	16.7	---	---	---
20	21.6	10.7	15.6	23.3	13.3	17.9	20.1	11.8	15.9	---	---	---
21	20.9	12.1	16.0	22.6	13.8	17.8	18.4	14.6	16.2	---	---	---
22	22.4	11.8	16.5	21.9	15.2	18.0	22.4	13.5	17.3	---	---	---
23	21.1	10.5	15.7	21.6	15.5	18.1	21.8	13.6	17.4	---	---	---
24	20.8	10.8	15.3	19.7	14.6	16.8	22.1	14.6	18.0	---	---	---
25	21.3	10.2	15.4	20.5	14.2	16.4	20.5	14.1	17.2	---	---	---
26	21.8	11.3	16.3	19.3	14.1	16.3	24.3	14.9	19.0	---	---	---
27	21.1	11.8	16.3	19.8	14.4	16.6	22.6	15.2	18.2	---	---	---
28	21.6	11.6	16.4	17.9	14.6	16.0	21.6	11.2	16.3	---	---	---
29	22.1	11.8	16.7	21.3	14.1	17.1	21.3	11.5	16.4	---	---	---
30	22.3	12.2	17.1	21.6	13.5	16.9	21.6	11.9	16.7	---	---	---
31	---	---	---	21.1	13.9	17.1	19.5	12.4	16.0	---	---	---
MONTH	---	---	---	24.3	12.1	17.3	24.3	11.2	16.8	---	---	---

09095500 COLORADO RIVER NEAR CAMEO, CO

LOCATION.--Lat 39°14'20", long 108°16'00", in SW¼SW¼ 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 mi^2, 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 fair. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3530	3020	2310	2380	2280	2190	3180	7010	15000	9100	4490	2720
2	3410	2970	2330	2360	2250	2220	3190	7770	15100	8720	4580	2820
3	3720	2880	2410	2430	2260	2350	3260	8420	14400	8510	4380	2880
4	4010	2820	2370	2470	2260	2410	3310	10100	13300	8180	4110	2790
5	3720	2810	2170	2450	2290	2340	3320	11000	11900	7720	4060	2680
6	3600	2790	2140	2390	2350	2420	3360	10900	10400	7270	4010	2620
7	3560	2740	2390	2270	2370	2350	3300	10200	8850	7100	3940	2540
8	3850	2710	2550	2190	2340	2280	3320	9480	7900	6500	3770	2510
9	3690	2650	2640	2230	2380	2260	3200	9340	7460	6000	3570	2450
10	3590	2640	2620	2280	2380	2200	3180	9530	7300	6130	3410	2450
11	3610	2610	2560	2360	2330	2260	3190	10400	7230	6480	3390	2470
12	3740	2670	2310	2430	2300	2320	3380	10700	7140	6060	3340	2860
13	3770	2630	2010	2410	2320	2350	3670	10400	7420	5560	3150	3020
14	3680	2580	2140	2400	2330	2390	3700	10800	7690	5040	2980	2950
15	3700	2460	2310	2330	2380	2410	3670	10600	7530	4710	2920	2830
16	3670	2120	2450	2330	2400	2490	3590	9260	7040	4420	2910	2720
17	3640	2070	2580	2380	2390	e2650	3570	8570	7090	4210	2910	2690
18	3550	2310	2530	2370	2350	e2760	3510	8910	7080	4130	2860	2560
19	3490	2510	2550	2350	2350	2820	3480	9930	6570	4100	2920	2510
20	3450	2490	2520	2340	2310	2680	3470	10900	6680	4000	2940	2450
21	3310	2500	2410	2250	e2380	2660	3500	12400	7290	e3800	3090	2460
22	3160	2460	2430	2110	e2420	2620	3610	13800	8150	e3700	3130	2450
23	3080	2400	2470	2090	e2460	2760	3830	12400	8890	4120	3110	2460
24	3210	2340	2410	2260	2480	3120	4310	10800	9190	4080	3080	2470
25	3270	2390	2410	2290	2580	3530	5120	9870	8430	4400	3010	2430
26	3110	2420	2300	2360	2460	4070	5560	9590	8270	4700	2880	2390
27	3040	2300	2140	2320	2340	4200	5250	10100	8700	4360	2710	2370
28	3010	2540	2070	2290	2260	4120	5140	11100	8920	4100	2760	2350
29	3020	2430	2320	2280	---	3900	5340	13000	8970	4300	2970	2340
30	3050	2350	2430	2270	---	3520	5940	14500	8990	4540	2840	2350
31	3040	---	2520	2260	---	3340	---	15100	---	4240	2760	---
TOTAL	107280	76610	73800	71930	66000	85990	115450	326880	268880	170280	102980	77590
MEAN	3461	2554	2381	2320	2357	2774	3848	10540	8963	5493	3322	2586
MAX	4010	3020	2640	2470	2580	4200	5940	15100	15100	9100	4580	3020
MIN	3010	2070	2010	2090	2250	2190	3180	7010	6570	3700	2710	2340
AC-FT	212800	152000	146400	142700	130900	170600	229000	648400	533300	337800	204300	153900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1998, BY WATER YEAR (WY)

MEAN	2136	1946	1708	1592	1605	1821	3223	9286	12710	5946	2865	2201
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	2959	1515	1332	1243
(WY)	1935	1935	1935	1964	1935	1935	1961	1977	1977	1934	1940	1934

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1934 - 1998	
ANNUAL TOTAL	2142900		1543670			
ANNUAL MEAN	5871		4229		3925	
HIGHEST ANNUAL MEAN					7605	1984
LOWEST ANNUAL MEAN					1937	1977
HIGHEST DAILY MEAN	25900	Jun 5	a15100	May 31	38000	May 26 1984
LOWEST DAILY MEAN	1710	Feb 9	2010	Dec 13	700	Dec 29 1939
ANNUAL SEVEN-DAY MINIMUM	1800	Feb 5	2240	Jan 21	852	Dec 24 1939
INSTANTANEOUS PEAK FLOW			15700	Jun 2	39300	May 26 1984
INSTANTANEOUS PEAK STAGE			9.10	Jun 2	14.36	May 26 1984
ANNUAL RUNOFF (AC-FT)	4250000		3062000		2844000	
10 PERCENT EXCEEDS	17100		8940		9720	
50 PERCENT EXCEEDS	3400		2970		2150	
90 PERCENT EXCEEDS	2000		2310		1370	

e-Estimated.
a-Also occurred Jun 2.

09095500 COLORADO RIVER NEAR CAMEO, CO--Continued

(National Water-Quality Assessment Program station)

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 water temperature record is good. Daily specific conductance record is good, except for the periods Oct. 1-19, and Mar. 23-24, which are poor. 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.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,970 microsiemens Jan. 19, 1940; minimum, 190 microsiemens 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, 1,370 microsiemens Sept. 12; minimum, 329 microsiemens June 2.
WATER TEMPERATURE: Maximum, 23.3°C July 20; minimum, 0.0°C on many days December to January.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT												
15...	1115	3670	776	8.6	8.5	10.2	210	61	15	74	2	2.5
NOV												
04...	1300	2840	893	8.7	7.0	10.8	220	60	17	88	3	2.7
DEC												
10...	1100	2630	892	8.6	1.5	12.0	200	57	15	87	3	2.9
JAN												
06...	1220	2400	902	8.5	1.5	12.2	200	56	15	99	3	3.3
FEB												
10...	1050	2430	965	8.4	3.5	11.2	210	61	15	100	3	3.2
MAR												
11...	1145	2200	991	8.2	4.5	11.0	220	60	16	110	3	3.3
APR												
09...	1245	2970	804	8.3	9.5	9.5	220	60	17	81	2	2.8
MAY												
12...	1030	10900	469	8.4	10.0	8.8	160	43	14	33	1	1.9
JUN												
01...	1240	15000	337	8.3	13.0	8.9	120	34	8.1	21	0.8	1.3
09...	1300	7370	498	8.3	13.0	8.6	150	43	11	38	1	1.7
23...	1330	8930	445	8.3	15.0	8.7	140	39	9.4	33	1	1.4
JUL												
08...	1240	6440	489	8.4	17.0	9.0	140	41	9.4	43	2	1.6
AUG												
13...	1040	3130	817	8.4	20.0	7.7	200	57	14	79	2	2.9
SEP												
09...	1030	2410	990	8.3	20.0	7.6	230	65	16	110	3	3.4

09095500 COLORADO RIVER NEAR CAMEO, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	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)
OCT												
15...	122	2	104	110	100	0.3	7.7	462	429	0.63	4570	<0.01
NOV												
04...	133	6	119	120	120	0.2	7.3	534	496	0.73	4090	0.04
DEC												
10...	133	1	111	120	130	0.4	7.1	537	487	0.73	3810	<0.01
JAN												
06...	129	4	112	120	140	0.3	7.3	535	508	0.73	3470	<0.01
FEB												
10...	156	2	132	130	150	0.3	7.0	568	540	0.77	3730	<0.01
MAR												
11...	162	--	133	130	150	0.3	7.0	578	553	0.79	3460	<0.01
APR												
09...	162	4	139	120	100	0.3	9.3	487	473	0.66	3910	0.02
MAY												
12...	149	2	126	64	29	0.2	10	281	272	0.38	8290	<0.01
JUN												
01...	111	--	91	40	21	0.2	7.3	202	188	0.27	8180	0.02
09...	138	2	117	61	46	0.2	8.0	297	280	0.40	5910	0.02
23...	121	4	105	51	40	0.2	5.9	253	244	0.34	6100	<0.01
JUL												
08...	117	1	98	59	55	0.2	6.3	283	274	0.38	4920	<0.01
AUG												
13...	160	6	141	110	110	0.3	8.2	481	466	0.65	4060	0.01
SEP												
09...	148	6	131	130	140	0.3	6.1	598	545	0.81	3890	<0.01

DATE	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)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)
OCT											
15...	<0.05	<0.01	<0.2	<0.2	0.02	<0.01	<0.01	2.2	0.6	19	4
NOV											
04...	<0.05	<0.02	0.3	0.2	<0.01	<0.01	<0.01	2.1	0.2	10	5
DEC											
10...	0.12	<0.02	0.1	<0.1	0.01	<0.01	0.01	1.9	0.2	<10	8
JAN											
06...	0.22	<0.02	0.2	0.1	0.03	0.02	0.03	1.9	0.2	<10	13
FEB											
10...	0.13	0.02	0.3	0.1	0.08	<0.01	0.02	2.1	0.5	<10	15
MAR											
11...	0.10	<0.02	0.2	0.1	0.02	<0.01	0.01	2.0	0.8	<10	15
APR											
09...	0.13	0.04	0.5	0.2	0.16	0.01	0.01	2.5	0.9	<10	9
MAY											
12...	0.33	0.05	2.0	0.2	0.94	<0.01	0.01	3.6	3.9	<10	<4
JUN											
01...	0.16	<0.02	0.5	0.1	0.13	0.03	0.01	3.0	2.2	11	5
09...	0.13	0.04	0.3	0.1	0.03	<0.01	<0.01	2.8	0.5	11	5
23...	<0.05	0.04	0.2	0.1	0.04	<0.01	<0.01	2.5	0.5	10	<4
JUL											
08...	<0.05	0.05	0.2	0.1	<0.01	0.02	0.02	2.0	0.3	14	5
AUG											
13...	0.09	0.05	0.3	0.1	0.07	<0.01	0.01	2.2	0.5	<10	<4
SEP											
09...	<0.05	0.06	0.2	0.1	0.02	<0.01	0.01	2.5	0.3	<10	<4

09095500 COLORADO RIVER NEAR CAMEO, CO--Continued

(National Water-Quality Assessment Program station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 0.062 MM (70331)	SAMPLER[b] TYPE (CODE) (84164)
OCT						
15...	1115	3670	a36	356	--	3039
15...	1145	3670	130	1290	65	3009
NOV						
04...	1300	2840	a12	92	--	3039
04...	1330	2840	17	130	--	3009
DEC						
10...	1100	2630	a5	36	--	3039
10...	1120	2630	10	71	--	3009
JAN						
06...	1220	2400	a12	78	--	3039
06...	1250	2400	14	91	--	3009
FEB						
10...	1050	2430	a96	630	--	3039
10...	1120	2440	127	837	94	3009
MAR						
11...	1145	2220	a66	395	--	3039
11...	1215	2220	129	773	92	3009
APR						
09...	1245	2970	a217	1740	--	3039
09...	1310	2970	197	1580	88	3009
MAY						
12...	1030	10900	a1610	47500	--	3039
12...	1050	10900	1740	51300	72	3009
JUN						
01...	1240	15000	a379	15400	--	3039
01...	1310	15000	534	21600	45	3009
09...	1230	7400	137	2740	57	3009
09...	1300	7370	a101	2000	--	3039
23...	1300	8850	117	2800	38	3009
23...	1330	8930	a109	2620	--	3039
JUL						
08...	1220	6530	42	741	--	3009
08...	1240	6440	a32	556	--	3039
AUG						
13...	1010	3130	71	599	--	3009
13...	1040	3130	a62	523	--	3039
SEP						
09...	1000	2410	17	111	--	3009
09...	1030	2410	a14	91	--	3039

a-Suspended-sediment concentration determined from a subsample split of a composite sample.
b-Code 3009 is a D-74 suspended-sediment sampler; Code 3039 is a D-77TM water-quality sampler.

09095500 COLORADO RIVER NEAR CAMEO, CO--Continued

(National Water-Quality Assessment Program station)

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	831	778	809	844	834	838	1000	987	994	909	883	894
2	833	771	807	844	833	837	1010	995	1000	925	882	915
3	831	764	785	867	842	850	1010	994	1000	937	918	929
4	776	666	713	881	864	871	1010	970	982	932	908	920
5	694	676	684	881	867	872	1010	969	980	924	902	909
6	706	578	644	886	862	873	1050	1010	1030	945	924	931
7	682	566	624	886	871	878	1060	1020	1040	970	923	940
8	708	673	693	882	870	876	1020	938	966	1000	964	975
9	796	689	733	899	877	884	938	903	921	1020	982	998
10	809	779	793	906	899	903	908	889	899	1020	1010	1010
11	808	785	801	905	892	899	897	881	887	1010	991	1010
12	807	779	799	951	899	925	964	881	914	991	948	970
13	799	788	792	926	909	915	996	959	976	974	951	961
14	800	789	793	914	906	911	1070	996	1030	978	958	967
15	792	773	782	907	875	886	1080	1000	1040	1050	968	1010
16	773	761	768	953	907	921	1010	968	983	1020	937	973
17	771	757	765	1010	914	969	968	924	953	1030	969	994
18	760	751	756	1030	991	1010	924	884	906	994	980	987
19	766	756	760	1010	974	990	903	873	889	998	984	991
20	765	752	756	985	969	974	891	878	883	1010	981	993
21	777	750	762	995	964	983	904	889	897	1010	973	995
22	817	773	789	995	964	979	928	904	918	997	972	987
23	842	817	827	1000	973	983	943	913	926	1040	1020	1030
24	840	825	832	1010	991	998	923	910	916	1060	1020	1040
25	837	827	832	1020	996	1010	946	921	933	1020	961	983
26	842	820	828	1010	985	999	950	935	943	977	941	960
27	854	838	845	1000	980	990	---	---	---	957	934	943
28	861	848	854	1040	949	992	---	---	---	974	947	957
29	861	848	855	975	953	963	---	---	---	997	947	976
30	855	838	844	990	968	976	---	---	---	991	964	980
31	846	832	838	---	---	---	---	---	---	993	953	974
MONTH	861	566	779	1040	833	932	---	---	---	1060	882	971

		FEBRUARY			MARCH			APRIL			MAY	
1	983	948	963	1030	998	1010	820	787	803	579	546	565
2	964	956	960	1060	998	1030	867	820	839	549	527	539
3	976	952	965	1070	984	1030	873	846	856	534	513	525
4	985	941	963	1030	961	997	863	827	851	518	490	503
5	976	940	953	1010	979	998	840	818	829	497	471	483
6	960	937	950	1010	987	998	823	791	810	474	465	471
7	951	937	944	1020	981	1000	800	755	784	485	473	479
8	942	921	935	1010	997	1010	795	730	758	495	485	492
9	942	921	932	1030	1010	1020	855	769	809	503	495	499
10	949	941	946	1050	1030	1040	857	812	827	523	500	511
11	948	924	932	1100	1020	1050	832	810	818	513	480	499
12	952	930	940	1150	1030	1080	821	779	806	481	472	475
13	972	949	962	1040	977	998	779	735	761	491	474	481
14	973	954	965	1030	1010	1020	753	730	741	480	451	463
15	988	936	967	1030	999	1010	762	743	752	477	452	466
16	969	944	959	1030	979	1000	765	756	760	517	477	500
17	973	947	962	1010	933	974	770	761	767	529	517	524
18	968	933	955	943	871	904	785	770	777	525	497	515
19	971	946	961	904	886	894	790	770	781	498	459	482
20	---	---	---	916	891	899	803	779	791	459	438	450
21	---	---	---	955	916	932	799	779	790	438	409	426
22	---	---	---	959	926	944	789	769	781	410	387	397
23	---	---	---	952	900	930	769	731	757	416	389	400
24	---	---	---	915	862	885	738	683	722	433	416	427
25	1010	975	987	874	784	822	683	624	659	461	432	445
26	987	979	983	784	660	709	624	588	605	463	449	458
27	997	972	983	667	635	654	611	595	606	450	426	441
28	1010	991	999	668	582	625	628	611	620	428	404	419
29	---	---	---	675	604	648	620	602	613	404	362	383
30	---	---	---	690	643	671	609	576	596	362	341	354
31	---	---	---	787	665	759	---	---	---	342	336	339
MONTH	---	---	---	1150	582	921	873	576	756	579	336	465

09095500 COLORADO RIVER NEAR CAMEO, CO--Continued

(National Water-Quality Assessment Program station)

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	343	336	340	415	396	407	723	678	700	946	927	937
2	340	329	336	417	396	408	716	679	696	955	933	947
3	340	330	336	425	403	415	694	662	677	933	922	928
4	351	332	342	429	407	419	713	678	699	933	912	921
5	391	351	368	441	418	433	762	712	733	945	920	925
6	425	391	409	464	435	453	737	721	730	966	945	949
7	472	425	448	473	452	465	746	730	738	980	966	970
8	499	472	487	502	466	487	755	740	748	992	980	984
9	515	499	506	546	500	525	783	752	767	1030	992	1010
10	521	511	516	549	523	538	822	782	806	1070	1010	1030
11	517	511	515	529	513	522	826	811	821	1020	978	990
12	518	514	516	550	521	540	825	815	820	1370	907	1030
13	520	494	513	582	534	559	839	817	825	1030	924	960
14	497	482	488	618	573	595	896	838	871	931	916	924
15	508	493	502	646	602	622	909	888	898	939	925	931
16	530	502	519	667	623	641	924	900	910	939	924	933
17	550	529	539	704	661	679	921	906	912	937	928	932
18	540	529	534	713	682	698	922	905	914	966	929	948
19	550	537	545	722	683	704	927	911	918	983	965	973
20	559	532	552	722	696	710	931	906	922	985	978	982
21	532	492	516	---	---	---	918	860	886	989	977	983
22	492	451	480	---	---	---	860	846	854	987	973	979
23	452	422	444	---	---	---	857	835	847	983	967	973
24	426	410	421	818	764	786	857	842	849	984	968	977
25	445	414	436	874	725	771	870	847	858	981	974	978
26	463	436	453	758	672	703	893	867	876	979	972	976
27	451	417	439	724	688	706	967	891	924	981	967	973
28	433	411	424	739	710	720	973	949	959	981	967	972
29	425	402	416	745	719	730	976	889	924	980	970	974
30	423	400	412	771	685	704	914	871	889	983	969	976
31	---	---	---	734	688	698	927	901	912	---	---	---
MONTH	559	329	458	---	---	---	976	662	835	1370	907	966

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.9	13.6	14.7	7.8	6.4	7.1	3.3	2.0	2.6	.5	.0	.1
2	15.9	14.0	14.9	7.5	5.8	6.6	3.4	2.5	3.0	1.0	.0	.4
3	16.1	14.7	15.3	6.5	4.9	5.7	3.2	2.0	2.6	2.6	.7	1.6
4	15.4	13.8	14.6	6.7	4.5	5.7	2.2	.6	1.5	2.5	1.8	2.1
5	15.3	13.4	14.3	7.0	4.8	5.8	1.3	.0	.7	2.2	1.3	1.8
6	15.2	13.2	14.2	7.0	4.9	6.0	1.1	.0	.4	2.1	.7	1.4
7	14.2	12.4	13.5	7.0	4.9	6.0	.9	.2	.6	.7	.0	.2
8	12.4	11.0	11.9	6.9	5.1	6.0	2.2	.8	1.6	.5	.0	.1
9	11.9	9.9	10.9	6.2	5.4	5.8	2.5	1.7	2.0	.1	.0	.0
10	11.3	10.4	10.9	5.6	4.8	5.2	2.0	.9	1.4	.6	.0	.2
11	11.0	10.1	10.7	5.6	5.3	5.4	.9	.0	.3	1.8	.5	1.2
12	10.1	8.6	9.7	6.0	5.1	5.5	.0	.0	.0	2.8	1.5	2.0
13	9.1	7.2	8.2	5.8	4.8	5.3	.0	.0	.0	2.4	1.7	2.1
14	9.3	7.4	8.3	5.1	3.1	4.3	.0	.0	.0	2.3	.9	1.6
15	9.6	7.6	8.6	3.1	1.4	2.3	.0	.0	.0	1.5	.5	1.0
16	10.2	8.3	9.1	2.0	.6	1.4	.1	.0	.0	1.8	.4	1.1
17	10.6	8.7	9.5	2.3	.6	1.5	.1	.0	.0	2.6	1.4	1.9
18	10.7	8.8	9.7	3.3	1.4	2.4	.2	.0	.0	2.8	1.2	2.0
19	10.9	8.9	9.8	4.1	2.4	3.3	.7	.0	.2	2.0	1.1	1.6
20	10.8	9.1	9.9	4.3	3.0	3.6	.7	.0	.2	1.9	.3	1.2
21	10.8	8.7	9.8	3.6	2.8	3.2	.0	.0	.0	1.5	.0	.8
22	10.6	8.6	9.6	3.5	2.0	2.8	.5	.0	.2	.8	.0	.1
23	9.6	8.1	8.6	3.5	1.7	2.6	.7	.0	.2	.7	.0	.2
24	8.1	6.1	7.3	3.1	1.2	2.2	.3	.0	.1	1.7	.0	.7
25	6.1	5.0	5.5	3.4	1.5	2.4	.0	.0	.0	2.2	.3	1.2
26	6.0	4.2	5.2	3.2	2.2	2.7	.0	.0	.0	2.4	.7	1.5
27	6.4	4.1	5.3	4.2	2.9	3.6	.0	.0	.0	2.0	.6	1.3
28	7.0	4.7	5.9	4.4	3.2	3.9	---	---	---	2.3	.0	1.2
29	7.6	5.3	6.5	4.3	2.8	3.5	---	---	---	2.4	.3	1.4
30	8.5	6.3	7.4	3.5	2.1	2.8	---	---	---	3.2	1.0	2.0
31	8.3	6.6	7.5	---	---	---	.1	.0	.0	3.5	2.0	2.7
MONTH	16.1	4.1	9.9	7.8	.6	4.2	---	---	---	3.5	.0	1.2

09095500 COLORADO RIVER NEAR CAMEO, CO--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.9	.8	1.9	2.9	.3	1.6	7.9	5.6	6.9	12.4	10.1	11.4
2	2.0	1.1	1.6	3.7	.7	2.2	7.6	6.0	7.0	12.5	10.0	11.3
3	3.0	1.0	1.9	6.1	3.0	4.4	8.0	5.5	6.6	12.4	9.9	11.2
4	3.5	2.1	2.8	5.7	4.3	5.0	9.4	7.4	8.3	12.3	9.7	11.0
5	4.2	2.9	3.5	5.5	3.1	4.4	10.6	8.1	9.3	11.5	9.6	10.7
6	5.1	3.2	4.1	5.2	4.0	4.6	9.7	8.8	9.2	11.3	9.6	10.6
7	5.0	4.0	4.5	4.2	2.5	3.3	9.6	8.1	8.7	10.8	9.2	10.0
8	4.3	3.5	3.9	3.4	.9	2.3	9.4	7.8	8.5	10.8	8.9	10.1
9	4.9	3.0	3.9	5.6	1.9	3.6	10.2	7.7	8.8	12.2	9.3	10.6
10	4.9	2.7	3.9	5.8	2.3	4.1	10.9	8.1	9.4	12.4	9.9	11.4
11	3.9	2.1	2.8	6.6	3.3	4.9	11.7	8.5	10.0	12.6	10.3	11.5
12	3.7	1.4	2.5	7.5	3.8	5.7	10.2	9.3	9.7	12.0	9.6	10.9
13	3.0	1.7	2.5	8.0	4.3	6.2	9.5	8.4	8.9	12.4	10.3	11.3
14	4.4	2.1	3.2	9.0	5.2	7.1	8.5	7.9	8.2	12.0	10.3	11.2
15	5.1	3.3	4.1	9.4	6.0	7.8	8.9	7.0	8.0	11.7	9.0	10.4
16	5.2	3.3	4.3	9.7	6.3	8.1	8.5	7.6	8.1	11.6	9.1	10.5
17	5.6	4.2	4.8	9.7	6.7	8.3	8.8	7.2	7.8	13.0	9.9	11.4
18	5.7	3.6	4.6	8.3	5.6	6.6	9.8	7.2	8.4	13.6	10.8	12.3
19	5.6	3.2	4.4	7.3	4.6	5.9	9.9	7.6	8.8	13.3	11.4	12.5
20	---	2.8	---	8.0	4.6	6.3	11.1	8.2	9.6	13.8	11.2	12.5
21	---	---	---	9.0	5.1	7.1	12.2	8.8	10.5	13.1	11.5	12.4
22	---	---	---	9.3	6.5	7.9	13.0	9.9	11.4	12.7	10.7	11.5
23	---	---	---	11.5	7.4	9.3	13.3	10.8	12.0	12.3	9.5	11.0
24	5.7	---	---	11.9	9.1	10.5	12.6	11.1	11.7	12.2	10.3	11.3
25	5.2	3.5	4.4	11.8	9.8	10.7	11.6	10.0	10.9	13.0	9.6	11.3
26	4.5	2.5	3.5	10.4	8.9	9.5	11.1	9.6	10.4	13.4	11.1	12.2
27	3.5	1.6	2.7	9.4	8.3	8.7	11.5	9.0	10.3	14.0	10.9	12.5
28	3.4	.7	2.1	8.5	7.2	7.7	11.8	9.3	10.6	14.6	11.7	13.2
29	---	---	---	7.2	6.0	6.6	12.3	9.9	11.1	14.1	12.3	13.2
30	---	---	---	6.2	5.1	5.8	12.3	10.0	11.3	13.9	11.8	12.9
31	---	---	---	7.7	5.0	6.2	---	---	---	13.5	11.5	12.6
MONTH	---	---	---	11.9	.3	6.2	13.3	5.5	9.3	14.6	8.9	11.5
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.0	11.4	12.6	18.7	15.1	17.0	20.6	18.8	19.6	20.1	18.5	19.3
2	14.2	11.7	13.0	19.0	15.5	17.3	20.1	18.1	19.2	21.3	18.0	19.5
3	14.2	11.9	13.0	18.9	15.8	17.4	20.2	18.2	19.2	21.8	18.3	20.0
4	12.8	11.3	11.9	18.9	16.1	17.6	20.2	18.5	19.2	21.8	18.9	20.4
5	11.8	10.1	11.0	19.0	16.0	17.6	20.7	17.7	19.1	22.8	19.3	21.0
6	12.4	10.3	11.3	20.0	16.7	18.4	21.2	18.6	19.9	22.9	19.6	21.3
7	13.3	10.5	11.9	19.4	17.1	18.0	21.8	19.2	20.4	23.0	19.9	21.5
8	14.5	11.4	12.9	18.6	15.8	17.2	21.9	19.8	20.8	22.7	20.2	21.4
9	14.6	12.3	13.4	18.1	16.5	17.4	21.8	19.4	20.6	21.9	19.1	20.6
10	14.4	12.0	13.3	18.1	16.3	17.3	20.9	19.8	20.3	20.4	18.5	19.5
11	14.3	11.9	13.2	18.6	16.0	17.3	21.6	18.7	20.1	20.1	18.0	19.2
12	15.5	12.1	13.9	19.8	16.6	18.2	22.3	19.4	20.7	19.5	17.5	18.4
13	15.2	12.9	14.1	20.1	17.3	18.7	22.2	19.3	20.7	19.7	17.0	18.1
14	14.4	12.7	13.7	20.7	17.7	19.2	22.6	19.6	21.1	19.8	17.2	18.5
15	14.2	11.2	12.8	21.1	18.6	19.8	23.0	19.4	21.1	19.7	17.2	18.6
16	14.0	12.5	13.0	21.6	18.6	20.1	22.7	19.2	20.8	19.7	16.5	18.2
17	12.7	10.9	11.7	22.0	19.0	20.4	22.4	19.8	21.1	19.8	16.4	18.1
18	14.3	10.7	12.5	22.5	19.4	20.9	22.1	19.5	20.8	19.6	16.7	18.1
19	15.7	12.2	14.0	23.2	20.2	21.6	22.5	19.0	20.7	19.2	16.5	17.9
20	16.2	13.7	15.0	23.3	20.4	21.8	21.8	19.2	20.7	17.9	15.2	16.6
21	16.4	13.8	15.2	---	---	---	20.9	19.6	20.2	17.2	14.7	16.0
22	16.3	13.9	15.2	---	---	---	21.7	18.2	19.8	17.5	14.5	16.0
23	16.2	13.4	14.9	22.6	20.8	21.7	22.0	19.3	20.6	16.3	15.4	15.8
24	15.9	13.1	14.6	22.0	20.6	21.3	22.3	20.0	21.2	18.0	14.3	15.9
25	15.9	12.7	14.4	21.3	20.1	20.8	21.4	19.5	20.4	17.5	14.9	16.2
26	16.7	13.3	15.1	21.2	18.7	19.9	22.5	19.1	20.7	16.9	13.8	15.3
27	17.2	13.9	15.6	21.6	19.8	20.6	22.6	19.8	21.2	16.8	13.5	15.2
28	17.6	14.1	15.9	21.3	20.4	20.7	22.1	18.8	20.5	16.8	13.2	15.0
29	18.0	14.3	16.2	22.1	19.6	20.7	21.9	18.6	20.3	17.1	14.5	15.8
30	18.4	14.8	16.6	21.0	19.0	20.1	21.9	18.1	20.1	17.8	14.5	16.1
31	---	---	---	20.6	18.8	19.9	21.2	18.7	19.9	---	---	---
MONTH	18.4	10.1	13.7	---	---	---	23.0	17.7	20.4	23.0	13.2	18.1

09105000 PLATEAU CREEK NEAR CAMEO, CO

LOCATION.--Lat 39°11'00", long 108°16'02", in SW¼SW¼ 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.

DRAINAGE AREA.--592 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1935 to September 1983. October 1985 to current year. Prior to May 1936, monthly discharges only, published in WSP 1313.

REVISED RECORDS.--WSP 979: 1942. WSP 2124: Drainage area. WDR CO-83-2: 1973 (M), 1975 (M).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,840 ft above sea level, from topographic map. Prior to Aug. 27, 1936, nonrecording gage.

REMARKS.--Records good except for estimated daily discharges and discharges above 1,440 ft^3/s, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation of about 25,000 acres, return flow from irrigated areas, and for power development.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	223	197	167	e130	102	98	225	1290	1650	268	228	143
2	219	182	167	e122	106	108	301	1450	1690	240	205	152
3	393	174	160	129	106	112	296	1590	1610	210	194	145
4	316	176	122	129	107	119	322	1770	1320	199	194	134
5	257	177	133	126	127	108	323	1900	1040	194	182	132
6	238	173	145	124	130	118	305	1700	814	195	174	127
7	242	169	151	110	125	119	272	1350	672	223	170	130
8	365	168	155	122	116	91	256	1220	644	228	166	131
9	292	171	153	e112	116	113	242	1170	582	215	153	132
10	270	176	148	e120	105	103	260	1180	574	236	150	126
11	305	181	134	120	89	110	334	1490	556	297	162	129
12	333	205	e98	122	104	111	528	1400	524	253	155	153
13	276	184	e97	121	96	120	440	1360	567	218	145	168
14	263	174	e106	120	106	135	391	1590	566	201	148	154
15	255	131	e106	113	107	147	340	1110	642	185	142	150
16	251	132	e131	118	107	161	322	908	580	179	140	157
17	247	165	e126	119	104	172	286	888	671	167	144	146
18	239	166	e137	117	100	212	284	1140	662	162	145	145
19	230	167	e138	116	93	164	274	1440	575	156	154	142
20	222	168	128	117	94	149	301	1710	521	150	142	138
21	215	157	e117	102	101	156	339	2610	515	151	145	141
22	209	158	138	100	108	179	449	2650	525	155	156	138
23	208	149	124	124	132	237	660	1760	472	228	146	145
24	263	160	e114	112	146	367	977	1590	438	237	141	152
25	241	163	e111	112	141	587	967	1360	403	255	135	144
26	212	163	e110	110	110	682	795	1530	371	209	141	140
27	220	177	e93	109	106	618	739	1680	352	225	137	140
28	236	170	e114	108	89	522	818	1860	338	203	125	138
29	229	157	e130	108	---	367	952	2010	315	261	122	143
30	220	156	e146	109	---	264	1120	1990	298	212	119	152
31	205	---	e139	113	---	268	---	1840	---	209	123	---
TOTAL	7894	5046	4038	3614	3073	6817	14118	48536	20487	6521	4783	4267
MEAN	255	168	130	117	110	220	471	1566	683	210	154	142
MAX	393	205	167	130	146	682	1120	2650	1690	297	228	168
MIN	205	131	93	100	89	91	225	888	298	150	119	126
AC-FT	15660	10010	8010	7170	6100	13520	28000	96270	40640	12930	9490	8460

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1998, BY WATER YEAR (WY)

MEAN	116	104	87.2	77.9	82.8	108	246	692	532	126	80.4	94.6
MAX	333	207	148	117	148	220	759	1825	2975	796	328	255
(WY)	1942	1987	1942	1998	1958	1998	1942	1942	1983	1995	1983	1997
MIN	25.2	37.3	42.1	41.4	42.8	58.3	71.9	33.8	19.8	16.6	13.4	17.4
(WY)	1978	1978	1991	1961	1978	1964	1990	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1936 - 1998	
ANNUAL TOTAL	136792		129194			
ANNUAL MEAN	375		354		197	
HIGHEST ANNUAL MEAN					542	1983
LOWEST ANNUAL MEAN					48.8	1977
HIGHEST DAILY MEAN	2960	Jun 2	2650	May 22	4100	Jun 25 1983
LOWEST DAILY MEAN	74	Mar 5	a89	Feb 11	8.2	Aug 15 1977
ANNUAL SEVEN-DAY MINIMUM	80	Mar 1	101	Feb 15	9.1	Aug 10 1977
INSTANTANEOUS PEAK FLOW			3200	May 22	5580	Jun 15 1973
INSTANTANEOUS PEAK STAGE			6.93	May 22	b7.99	Jun 15 1973
ANNUAL RUNOFF (AC-FT)	271300		256300		142500	
10 PERCENT EXCEEDS	1140		971		433	
50 PERCENT EXCEEDS	176		168		98	
90 PERCENT EXCEEDS	89		110		46	

e-Estimated.
a-Also occurred Feb 28.
b-Maximum gage height, 8.73 ft, Jun 16, 1995.

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 are good, except for the period Oct. 10 to Feb. 20 and Aug. 24 through Sept. 30, which are poor. Daily record of water temperature is good from Nov 19 through Jan 8, and Feb 20 through Sep 30, and fair from Oct 1 through Nov 19, and Jan 8 through Feb 20. Interruptions in daily record are due to sensor fouling or missing transmissions. Daily maximum and minimum specific conductance data from June 1994 to September 1995 available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 1260 microsiemens, Sept. 20, 1997, maximum observed, 1470 microsiemens, Aug. 6, 1997; minimum, 160 microsiemens several days in June 1995.
WATER TEMPERATURE: Maximum, 26.2°C, July 4, 1996; minimum, 0.0°C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1100 microsiemens, July 23, 24; minimum, 164 microsiemens, June 3.
WATER TEMPERATURE: Maximum, 25.9°C, July 20; minimum, 0.0°C on many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
MAR										
02...	1332	85	688	8.6	3.5	12.6	280	59	31	54
16...	1445	133	627	8.6	8.5	10.1	240	52	26	51
APR										
24...	0930	997	371	8.3	6.0	10.1	140	37	13	22
MAY										
22...	1110	2780	205	8.2	7.5	10.0	88	23	7.3	8.1
JUN										
26...	1153	389	430	8.5	15.0	8.7	190	43	19	25
JUL										
21...	0955	149	584	8.5	19.5	8.4	240	47	29	40
21...	1035	152	580	8.6	20.0	8.4	240	48	28	39
AUG										
10...	1315	155	658	8.6	18.0	9.3	270	54	34	44
SEP										
09...	1005	136	694	8.6	16.0	8.7	300	60	37	47

DATE	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
MAR										
02...	1	3.6	308	83	7.3	0.4	24	447	0.61	103
16...	1	3.8	282	87	6.6	0.4	20	416	0.57	149
APR										
24...	0.8	2.9	192	39	2.9	0.2	12	243	0.33	655
MAY										
22...	0.4	1.5	110	11	0.9	0.1	12	131	0.18	981
JUN										
26...	0.8	3.1	207	31	2.8	0.3	20	269	0.37	283
JUL										
21...	1	4.8	275	49	4.3	0.5	25	364	0.49	146
21...	1	4.9	275	49	4.3	0.5	25	363	0.49	149
AUG										
10...	1	4.9	310	55	4.9	0.6	31	414	0.56	173
SEP										
09...	1	5.5	325	56	5.3	0.6	33	440	0.60	162

09105000 PLATEAU CREEK NEAR CAMEO, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	581	496	537	543	532	537	589	559	573	620	593	608
2	613	556	588	541	528	534	585	563	576	611	592	603
3	---	---	---	548	527	538	584	563	575	617	604	609
4	---	---	---	558	541	549	614	566	584	623	613	617
5	---	---	---	555	545	549	660	602	628	625	610	619
6	---	---	---	560	539	550	632	598	612	618	604	612
7	---	---	---	575	548	558	605	588	595	643	613	627
8	---	---	---	585	567	577	596	584	592	657	631	643
9	---	---	---	592	578	586	591	578	586	---	---	---
10	---	---	---	591	581	586	591	576	585	636	---	---
11	556	497	527	598	581	592	628	587	608	636	620	629
12	545	504	529	614	594	604	676	628	655	635	626	630
13	545	526	535	615	598	605	684	638	662	635	626	633
14	544	523	530	607	585	601	665	618	647	634	620	626
15	560	524	548	626	582	603	633	607	622	637	620	627
16	567	548	557	656	625	644	618	589	609	629	614	621
17	565	530	549	679	649	670	617	591	606	625	614	618
18	532	509	523	652	634	643	613	590	604	624	612	618
19	514	492	506	634	623	628	608	589	599	623	613	619
20	510	489	499	626	589	609	623	597	609	621	606	615
21	500	488	492	607	593	602	629	601	616	634	600	618
22	500	484	490	613	580	601	614	593	606	648	623	637
23	497	481	488	615	579	595	626	595	611	642	599	623
24	490	486	488	609	569	586	625	594	611	614	597	608
25	499	486	492	592	566	580	635	607	624	614	604	609
26	510	493	501	584	568	576	651	624	639	616	603	609
27	518	502	510	588	562	577	654	628	641	616	606	611
28	521	508	514	582	551	569	655	617	638	631	607	622
29	526	513	520	580	560	570	630	593	614	639	621	631
30	533	519	526	592	556	571	622	598	612	653	634	643
31	539	522	530	---	---	---	624	596	611	649	635	643
MONTH	---	---	---	679	527	586	684	559	611	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	672	641	657	760	690	731	621	583	594	372	326	349
2	666	649	659	718	672	694	615	550	573	358	311	333
3	663	640	653	683	652	668	790	561	626	343	299	320
4	666	642	655	664	641	649	687	644	658	324	283	304
5	669	593	653	660	645	652	676	657	665	314	269	289
6	653	593	630	662	639	653	673	639	652	312	280	296
7	654	612	634	653	645	649	667	645	655	334	309	321
8	651	639	648	679	639	658	683	661	670	342	319	331
9	654	627	646	678	657	670	705	671	685	345	316	330
10	654	628	645	682	650	668	697	643	665	343	316	329
11	680	641	655	679	658	671	670	588	615	330	273	293
12	688	641	668	681	658	673	612	448	498	308	275	292
13	661	632	645	684	662	675	595	511	535	306	284	295
14	650	633	643	683	662	675	683	571	594	294	254	270
15	651	632	642	682	660	669	657	626	633	321	286	304
16	656	636	647	667	639	649	640	625	634	337	319	327
17	664	643	656	667	617	632	641	634	637	342	309	325
18	664	648	656	639	596	608	650	640	646	337	274	294
19	667	645	655	802	639	675	663	639	649	292	251	263
20	710	648	674	790	702	720	680	628	643	254	223	242
21	714	660	686	770	704	720	658	590	609	226	201	215
22	709	664	681	730	665	686	613	524	550	229	195	209
23	678	625	661	674	621	658	549	439	473	258	229	245
24	715	627	681	621	490	557	466	373	403	261	237	249
25	690	642	671	490	415	448	429	385	406	274	252	264
26	720	681	703	463	363	407	447	410	427	253	225	241
27	728	690	708	486	454	470	468	432	448	237	205	222
28	753	699	724	501	448	471	459	401	426	219	182	204
29	---	---	---	568	501	529	431	369	397	209	173	192
30	---	---	---	592	553	568	396	341	369	205	168	187
31	---	---	---	585	541	565	---	---	---	207	166	190
MONTH	753	593	662	802	363	626	790	341	568	372	166	275

09105000 PLATEAU CREEK NEAR CAMEO, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	218	175	199	487	463	479	---	---	---	768	713	746
2	214	165	193	510	482	501	---	---	---	722	677	708
3	210	164	190	534	504	523	---	---	---	726	679	708
4	252	178	215	558	522	542	---	---	---	739	699	719
5	310	252	289	562	539	553	---	---	---	737	692	717
6	338	287	310	571	546	559	---	---	---	724	690	708
7	349	323	336	555	526	540	---	---	---	712	681	699
8	356	322	339	544	520	534	---	---	---	717	687	703
9	368	329	350	539	524	534	---	---	---	708	673	690
10	370	334	354	570	536	557	---	---	---	717	682	699
11	374	341	361	560	516	536	---	---	---	712	670	695
12	386	362	375	554	536	544	---	---	---	680	661	671
13	387	351	370	565	542	551	---	---	---	668	621	643
14	387	367	377	594	562	575	---	---	---	646	625	637
15	397	375	382	589	560	577	---	---	---	636	624	629
16	390	370	378	586	567	578	---	---	---	626	606	619
17	395	380	388	590	574	583	---	---	---	613	602	607
18	390	372	380	589	575	582	---	---	---	612	598	605
19	398	368	386	579	570	575	---	---	---	616	599	607
20	402	389	396	578	569	573	---	---	---	626	600	614
21	400	392	396	581	565	570	---	---	---	634	616	623
22	399	378	388	590	565	579	---	---	---	641	617	628
23	397	389	392	1100	574	625	---	---	---	640	619	631
24	403	389	399	1100	897	1010	---	---	---	648	628	637
25	420	400	412	897	646	773	743	700	725	640	618	629
26	435	419	429	745	590	693	753	712	735	643	620	631
27	444	430	441	---	---	---	758	715	737	647	622	634
28	455	442	451	---	---	---	762	719	741	657	628	642
29	469	452	462	---	---	---	760	719	741	663	643	652
30	472	459	467	---	---	---	766	723	744	677	642	661
31	---	---	---	---	---	---	763	704	738	---	---	---
MONTH	472	164	360	---	---	---	---	---	---	768	598	660

TEMPERATURE, WATER (DEG. C) WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.1	10.7	13.7	7.6	4.5	6.3	3.8	1.4	2.5	.0	.0	.0
2	16.2	11.7	14.0	6.3	2.6	4.7	4.1	3.0	3.5	1.3	.0	.2
3	15.7	12.9	14.4	5.8	2.0	4.2	3.6	1.4	2.4	3.4	1.3	2.2
4	15.0	10.1	12.8	6.6	2.6	4.8	1.7	.0	.4	2.5	1.1	1.9
5	15.3	10.0	12.9	7.0	3.1	5.1	1.0	.0	.2	2.6	1.2	2.0
6	15.4	10.2	13.0	6.9	3.0	5.1	2.0	.0	.6	2.3	.0	1.1
7	14.4	11.0	12.7	6.8	2.9	5.1	2.2	.6	1.5	.7	.0	.0
8	12.3	9.4	10.5	6.6	3.6	5.2	2.9	1.8	2.3	.0	.0	.0
9	11.6	6.4	9.1	6.1	4.6	5.1	2.7	1.7	2.2	.0	.0	.0
10	13.2	8.3	10.7	5.1	3.6	4.4	2.1	.3	.9	1.6	.0	.4
11	12.4	9.8	10.9	5.1	4.3	4.7	.4	.0	.0	3.7	1.5	2.5
12	10.7	7.4	8.3	5.8	4.6	5.1	.0	.0	.0	4.1	2.1	3.0
13	8.8	4.5	6.8	5.5	3.6	4.7	.0	.0	.0	2.9	1.3	1.9
14	9.6	4.5	7.2	5.3	1.4	3.5	.0	.0	.0	2.2	.3	1.4
15	10.5	5.4	8.1	1.5	.4	.8	.0	.0	.0	1.3	.0	.5
16	10.9	6.0	8.7	2.0	.3	.8	.0	.0	.0	3.4	.9	2.0
17	11.0	6.0	8.8	3.2	.2	1.6	.0	.0	.0	3.7	2.1	2.8
18	11.1	6.2	8.9	3.6	.6	2.2	.0	.0	.0	3.4	.7	2.1
19	11.1	6.2	8.9	---	---	---	.6	.0	.1	2.7	.6	1.7
20	11.3	7.0	9.2	5.3	2.8	4.0	.5	.0	.0	2.2	.1	1.4
21	11.0	6.6	9.0	4.3	1.5	2.4	.0	.0	.0	1.3	.0	.3
22	10.4	6.0	8.5	2.8	.4	1.7	1.1	.0	.3	.0	.0	.0
23	9.5	5.6	7.3	3.1	.0	1.5	.7	.0	.0	1.3	.0	.2
24	7.6	4.9	6.0	2.9	.0	1.5	.1	.0	.0	2.6	.0	1.0
25	5.3	3.1	4.3	3.8	.9	2.3	.0	.0	.0	2.9	.0	1.4
26	5.9	2.3	4.0	3.8	2.0	2.8	.0	.0	.0	2.5	.0	1.2
27	6.5	2.3	4.4	5.0	3.7	4.3	.0	.0	.0	1.8	.0	.9
28	7.4	2.9	5.3	4.6	2.6	3.8	.0	.0	.0	2.4	.0	.9
29	8.1	3.8	6.1	3.5	.6	2.2	.0	.0	.0	2.3	.0	1.0
30	8.9	5.1	7.2	3.0	.3	1.8	.0	.0	.0	4.0	.7	2.2
31	8.3	4.6	6.8	---	---	---	.0	.0	.0	3.7	2.0	2.9
MONTH	16.2	2.3	9.0	---	---	---	4.1	.0	.5	4.1	.0	1.3

09105000 PLATEAU CREEK NEAR CAMEO, CO--Continued

TEMPERATURE, WATER (DEG. C) WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.4	.0	1.2	3.0	.0	1.1	8.7	2.8	6.1	11.4	5.5	8.7
2	2.0	.1	1.1	4.9	.0	2.2	8.2	3.3	5.0	12.0	6.0	9.2
3	4.0	1.0	2.5	7.4	1.9	4.7	7.7	2.4	4.8	11.5	5.7	9.0
4	3.8	1.7	2.8	6.2	2.9	4.1	9.1	3.7	6.4	10.8	5.1	8.4
5	5.6	3.3	4.3	5.8	1.0	3.5	10.1	4.5	7.3	10.0	5.6	7.8
6	6.4	2.4	4.2	5.5	2.5	4.3	9.2	5.8	7.4	8.5	6.3	7.7
7	5.1	3.3	4.1	4.9	1.4	2.6	9.1	4.7	6.6	10.6	5.3	7.9
8	4.0	2.3	3.2	4.7	.2	2.0	8.8	3.9	6.2	10.4	6.0	8.5
9	5.9	2.6	4.0	5.8	.4	3.2	10.0	4.4	7.5	11.6	7.3	9.5
10	4.2	.7	2.9	6.6	.5	3.8	11.0	4.5	8.0	11.8	7.4	9.8
11	2.8	.0	.8	6.7	1.1	4.1	11.7	6.0	9.1	11.2	7.5	9.6
12	3.8	.0	1.6	8.0	1.4	5.0	10.4	5.9	7.5	10.2	6.4	8.6
13	2.5	.0	1.3	8.0	2.0	5.5	7.6	5.2	6.4	11.8	7.8	9.7
14	5.2	1.6	3.2	8.6	2.7	6.2	6.9	4.8	5.8	11.0	7.4	8.5
15	5.4	3.3	4.4	8.9	3.0	6.5	7.3	4.1	5.8	10.6	5.3	7.8
16	5.6	2.7	4.2	8.9	2.9	6.4	7.1	5.4	6.3	10.4	6.6	8.8
17	4.8	3.2	4.0	8.7	3.3	6.4	8.8	4.7	6.5	13.0	7.5	10.1
18	5.2	1.8	3.5	7.7	1.9	3.4	10.3	4.7	7.3	12.6	8.2	10.5
19	5.0	.5	3.0	7.7	1.4	4.4	9.7	4.1	7.3	12.2	8.4	10.4
20	4.4	.2	2.6	8.3	1.6	5.4	11.2	5.6	8.6	12.5	8.5	10.4
21	4.5	.1	2.5	9.1	2.1	6.0	12.0	5.5	9.0	11.8	7.9	9.7
22	4.6	2.1	3.4	9.1	4.3	6.9	12.3	6.3	9.6	10.2	6.4	8.3
23	4.6	2.2	3.4	11.3	5.6	8.6	11.8	6.2	9.4	11.9	6.6	9.1
24	7.2	3.4	5.2	10.4	4.6	7.7	11.1	6.1	8.3	11.5	7.4	9.5
25	5.2	2.4	3.7	10.0	4.0	7.3	9.3	5.5	7.6	13.4	6.9	10.0
26	4.3	.1	2.4	8.0	3.4	5.2	8.2	5.3	7.0	12.5	7.9	9.9
27	3.0	.0	1.7	7.3	4.5	6.0	10.1	5.1	7.7	13.2	7.5	10.3
28	3.3	.0	1.1	6.4	3.9	5.0	10.7	5.4	8.0	13.6	7.4	10.5
29	---	---	---	5.5	2.6	4.2	11.2	5.4	8.5	12.9	7.7	10.2
30	---	---	---	4.7	.7	2.9	11.1	5.2	8.5	13.3	7.9	10.5
31	---	---	---	8.2	2.1	5.0	---	---	---	12.9	7.5	10.2
MONTH	7.2	.0	2.9	11.3	.0	4.8	12.3	2.4	7.3	13.6	5.1	9.3
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.2	8.3	11.2	22.5	15.8	19.5	22.2	16.6	19.4	20.2	15.8	17.9
2	14.4	8.2	11.4	22.6	16.4	19.9	21.6	14.5	18.3	21.8	15.4	18.6
3	14.1	8.9	11.7	23.0	16.8	20.1	21.3	15.3	18.8	22.4	15.2	19.1
4	12.5	9.1	10.2	23.4	18.1	20.7	21.7	15.2	18.7	21.9	16.0	19.4
5	13.0	8.6	10.6	24.1	17.3	20.7	23.1	15.5	19.5	22.9	16.7	19.9
6	13.9	8.5	11.1	25.2	19.0	22.0	23.0	15.6	19.7	22.6	16.4	19.7
7	15.4	10.4	12.7	23.0	18.0	19.6	23.2	15.5	19.7	22.6	16.6	19.9
8	15.9	10.6	13.0	23.2	15.8	19.3	22.1	16.1	19.5	21.2	17.1	19.3
9	14.6	10.8	13.1	21.1	17.2	19.0	23.8	17.1	20.4	20.2	15.7	18.3
10	14.4	11.5	13.1	20.6	17.3	18.8	21.2	16.9	18.4	18.4	15.0	16.9
11	14.8	10.1	12.8	22.0	15.9	19.0	22.5	15.6	19.1	19.4	16.0	17.7
12	17.7	10.8	14.1	23.3	16.0	19.7	23.0	15.5	19.4	18.1	16.1	17.2
13	17.2	12.2	14.4	22.6	16.5	19.9	23.2	15.5	19.7	19.5	13.3	16.6
14	15.5	11.9	13.8	24.0	16.8	20.6	23.2	16.2	20.0	20.2	14.0	17.3
15	16.4	10.0	13.3	24.8	17.3	21.2	23.8	16.2	20.2	20.0	13.6	16.8
16	15.9	12.3	13.6	24.4	17.6	21.4	23.3	16.6	20.0	19.5	12.9	16.4
17	13.0	10.5	11.4	25.0	17.4	21.5	22.1	16.8	19.6	19.3	12.6	16.3
18	16.9	9.5	12.7	25.4	18.1	22.0	21.6	16.5	19.2	19.1	12.6	16.2
19	17.9	11.1	14.7	25.7	18.6	22.4	22.9	15.2	19.1	18.6	13.2	16.1
20	17.6	12.2	15.3	25.9	18.5	22.4	20.1	15.3	18.1	16.8	11.1	14.3
21	18.5	13.5	16.0	25.5	18.9	22.3	19.3	16.5	18.0	17.1	11.9	14.7
22	18.8	12.8	16.1	25.0	19.8	22.2	23.0	15.1	19.0	17.3	11.0	14.5
23	18.5	12.8	15.9	25.3	19.5	22.0	23.7	16.3	20.2	16.2	13.5	14.8
24	18.2	12.6	15.7	22.9	18.2	20.4	23.2	17.7	20.7	18.0	11.9	15.1
25	18.6	12.2	15.7	22.0	18.8	20.4	21.5	17.0	19.4	16.7	11.5	14.5
26	19.7	13.5	17.1	22.4	18.1	20.2	23.7	16.4	19.9	16.3	10.7	13.8
27	20.3	14.1	17.6	22.4	17.9	20.2	22.8	17.4	20.3	15.9	9.7	13.2
28	21.2	14.4	18.1	21.7	18.4	19.9	22.2	14.7	18.7	16.3	9.7	13.4
29	21.8	15.0	18.8	23.4	17.2	20.4	22.0	14.9	18.8	17.9	13.3	15.6
30	22.1	15.7	19.3	22.4	17.1	20.0	22.7	15.1	19.1	17.8	12.2	15.0
31	---	---	---	21.5	16.8	19.4	20.9	15.4	18.1	---	---	---
MONTH	22.1	8.2	14.1	25.9	15.8	20.6	23.8	14.5	19.3	22.9	9.7	16.6

09106150 COLORADO RIVER BELOW GRAND VALLEY DIVERSION, NEAR PALISADE, CO

LOCATION.--Lat 39°05'55", long 108°21'16", in NW¼SE¼ sec.18, T.1 S., R.2 E., 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 mi^2.

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.-- No estimated daily discharges. Records good. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2450	2270	2420	2630	2290	2110	3100	7190	14100	7610	3360	1190
2	2290	2220	2440	2560	2230	2140	3050	8140	14300	7300	3480	1290
3	2800	2120	2490	2630	2240	2280	3050	8800	13700	7040	3260	1370
4	3130	2120	2460	2670	2260	2370	2980	10100	12600	6760	2870	1290
5	2730	2180	2260	2600	2270	2280	2940	11200	11100	6220	2790	1180
6	2540	2230	2210	2500	2360	2540	2920	11100	9560	5780	2700	1120
7	2450	2530	2430	2340	2410	2350	2790	10100	7990	5700	2560	1060
8	3160	2460	2400	2220	2360	2230	2790	9320	7040	5200	2350	1040
9	2820	2490	2440	2240	2360	2200	2560	9060	6530	4740	2110	997
10	2670	2610	2430	2340	2350	2130	2410	9190	6330	4790	1890	980
11	2680	2680	2380	2430	2260	2190	2470	10200	6280	5290	1860	1030
12	2890	2860	2160	2510	2200	2270	2880	10600	6180	4950	1840	1580
13	2830	2830	2000	2470	2230	2130	3230	10200	6340	4410	1660	1760
14	2710	2760	2030	2440	2220	2390	3230	10800	6690	3860	1440	1640
15	2700	2610	2270	2340	2290	2500	3050	10300	6580	3430	1350	1550
16	2680	2250	2430	2300	2320	2600	2830	8850	6180	3150	1320	1500
17	2710	2180	2590	2380	2300	2730	2770	8120	6210	2800	1310	1470
18	2680	2430	2600	2380	2270	3000	2670	8550	6300	2710	1260	1350
19	2590	2670	2640	2360	2230	2830	2580	9700	5730	2650	1300	1270
20	2560	2630	2600	2350	2190	2640	2540	10900	5700	2570	1300	1210
21	2440	2680	2440	2310	2160	2530	2550	12800	6260	2380	1520	1210
22	2260	2610	2440	2140	2220	2570	2680	14200	6950	2200	1580	1250
23	2170	2530	2490	2140	2380	2770	3110	12200	7590	2480	1580	1270
24	2360	2290	2420	2310	2390	3360	3950	10500	7910	2680	1540	1320
25	2470	2530	2290	2330	2570	4190	4910	9510	7250	3190	1480	1300
26	2290	2570	2180	2370	2390	5040	5370	9290	6850	3660	1360	1280
27	2210	2440	2090	2300	2250	5120	5070	9820	7190	3360	1150	1240
28	2220	2690	2000	2260	2180	4940	4970	10800	7430	2940	1160	1230
29	2250	2570	2340	2250	---	4510	5320	12600	7530	3160	1410	1250
30	2330	2480	2440	2250	---	3870	6050	14000	7530	3540	1310	1290
31	2290	---	2670	2290	---	3500	---	14400	---	3150	1220	---
TOTAL	79360	74520	73480	73640	64180	90310	100820	322540	237930	129700	57320	38517
MEAN	2560	2484	2370	2375	2292	2913	3361	10400	7931	4184	1849	1284
MAX	3160	2860	2670	2670	2570	5120	6050	14400	14300	7610	3480	1760
MIN	2170	2120	2000	2140	2160	2110	2410	7190	5700	2200	1150	980
AC-FT	157400	147800	145700	146100	127300	179100	200000	639800	471900	257300	113700	76400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1998, BY WATER YEAR (WY)

MEAN	1200	1904	1779	1747	1813	2170	2478	8650	11660	5040	1770	1236
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	1297	1302	962	4603	3164	745	557	650
(WY)	1991	1995	1991	1991	1991	1991	1995	1992	1992	1994	1994	1994

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1991 - 1998	
ANNUAL TOTAL	1914050		1342317			
ANNUAL MEAN	5244		3678		3457	
HIGHEST ANNUAL MEAN					5114	1997
LOWEST ANNUAL MEAN					1764	1992
HIGHEST DAILY MEAN	26500	Jun 6	14400	May 31	29600	Jun 17 1995
LOWEST DAILY MEAN	1710	Sep 14	980	Sep 10	342	Aug 6 1994
ANNUAL SEVEN-DAY MINIMUM	1810	Sep 12	1060	Sep 5	443	Aug 2 1994
INSTANTANEOUS PEAK FLOW			a14800	May 22	30600	Jun 17 1995
INSTANTANEOUS PEAK STAGE			a8.72	May 22	12.41	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	3797000		2662000		2504000	
10 PERCENT EXCEEDS	15900		8040		8340	
50 PERCENT EXCEEDS	2680		2530		1940	
90 PERCENT EXCEEDS	2080		1430		812	

a-Also occurred Jun 1.

09107000 TAYLOR RIVER AT TAYLOR PARK, CO

LOCATION.--Lat 38°50'59", long 106°34'21", in NW¼NE¼ 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 mi^2.

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 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	70	e50	e45	e39	e35	e29	159	364	236	118	86
2	85	64	e50	e42	e38	e34	e28	174	397	220	109	94
3	113	67	e50	e42	e37	e35	e28	199	416	210	98	70
4	92	68	e49	e44	e35	e38	e28	205	353	204	94	63
5	82	65	e49	e45	e36	e37	e27	194	308	195	94	59
6	79	65	e50	e45	e36	e38	e29	190	260	193	86	57
7	78	64	e50	e44	e38	e38	e33	174	239	184	80	56
8	94	63	e50	e43	e38	e38	e35	163	227	184	77	55
9	84	67	e50	e38	e37	e38	e38	169	234	185	75	55
10	88	65	e51	e34	e36	e39	e45	191	244	252	79	54
11	87	68	e50	e35	e34	e39	e52	197	234	185	88	54
12	86	67	e48	e32	e34	e37	e60	185	237	164	88	60
13	79	62	e47	e33	e37	e40	e58	190	280	152	77	64
14	82	68	e44	e38	e36	e41	e58	201	236	144	76	57
15	86	57	e47	e38	e35	e41	e61	173	254	133	74	59
16	83	e66	e47	e40	e34	e41	e66	178	229	123	72	60
17	81	e66	e46	e38	e33	e43	e72	188	230	119	e66	58
18	79	e65	e44	e37	e32	e42	e74	201	213	112	e63	54
19	77	e64	e45	e38	e34	e41	63	211	223	108	e62	52
20	76	e64	e44	e40	e36	e41	66	238	267	105	e66	51
21	74	e66	e45	e39	e35	e40	72	271	277	106	e70	50
22	72	e62	e45	e37	e34	e40	86	257	292	112	e72	49
23	72	e60	e46	e38	e34	e42	111	220	305	119	e71	51
24	77	e60	e47	e38	e34	e43	138	230	283	140	e72	50
25	80	e60	e51	e38	e35	e41	129	222	256	134	76	48
26	76	e60	e54	e41	e35	e38	101	262	265	147	81	48
27	80	e58	e50	e42	e34	e34	95	267	267	126	77	47
28	76	e56	e47	e39	e34	e30	107	322	257	125	71	47
29	75	e53	e46	e39	---	e28	122	356	253	174	62	49
30	77	e52	e46	e39	---	e30	144	368	248	122	59	53
31	75	---	e46	e39	---	e29	---	336	---	114	60	---
TOTAL	2524	1892	1484	1220	990	1171	2055	6891	8148	4827	2413	1710
MEAN	81.4	63.1	47.9	39.4	35.4	37.8	68.5	222	272	156	77.8	57.0
MAX	113	70	54	45	39	43	144	368	416	252	118	94
MIN	72	52	44	32	32	28	27	159	213	105	59	47
AC-FT	5010	3750	2940	2420	1960	2320	4080	13670	16160	9570	4790	3390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1998, BY WATER YEAR (WY)

MEAN	58.9	48.2	40.9	35.5	33.4	38.7	75.8	264	425	203	92.4	67.4
MAX	91.3	71.6	53.8	41.9	38.3	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	162	195	88.4	53.4	46.5
(WY)	1989	1989	1989	1990	1994	1996	1995	1990	1992	1994	1994	1990

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1988 - 1998	
ANNUAL TOTAL	58394		35325			
ANNUAL MEAN	160		96.8		116	
HIGHEST ANNUAL MEAN					197	1995
LOWEST ANNUAL MEAN					79.4	1992
HIGHEST DAILY MEAN	913	Jun 8	416	Jun 3	1120	Jun 17 1995
LOWEST DAILY MEAN	e,a33	Feb 9	e27	Apr 5	b24	Feb 7 1989
ANNUAL SEVEN-DAY MINIMUM	35	Feb 8	28	Mar 31	25	Feb 23 1996
INSTANTANEOUS PEAK FLOW			513	Jun 3	1400	Jun 18 1995
INSTANTANEOUS PEAK STAGE			2.97	Jun 3	4.08	Jun 18 1995
ANNUAL RUNOFF (AC-FT)	115800		70070		83680	
10 PERCENT EXCEEDS	476		232		284	
50 PERCENT EXCEEDS	79		64		54	
90 PERCENT EXCEEDS	39		36		34	

e-Estimated.
a-Also occurred Feb 22.
b-Minimum daily discharge for period of record, 23 ft^3/s, Jan 1-19, 1931.

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 mi^2.

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 satelite 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 FOR CURRENT YEAR.--Maximum contents, 92,500 acre-ft, July 10, elevation, 9,323.01 ft; minimum contents, 69,700 acre-ft, Sept. 30, elevation, 9,309.89 ft.

MONTHEND ELEVATION AND CONTENTS, AT 1800, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	9,314.04	76,400	-
Oct. 31	9,313.34	75,300	-1,100
Nov. 30	9,313.87	76,200	900
Dec. 31	9,313.73	76,000	-200
CAL YR 1997	-	-	21,500
Jan. 31	9,313.55	75,700	-300
Feb. 28	9,212.92	74,600	-1,100
Mar. 31	9,312.33	73,700	-900
Apr. 30	9,311.37	72,100	-1,600
May 31	9,315.43	78,900	+6,800
June 30	9,321.90	90,400	+11,500
July 31	9,321.32	89,400	-1,000
Aug. 31	9,315.88	79,600	-9,800
Sept. 30	9,309.89	69,700	-9,900
WTR YR 1998	-	-	-6,700

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 mi^2.

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. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	302	98	96	99	103	107	105	231	255	255	298	254
2	264	98	96	99	103	107	105	231	256	253	295	257
3	253	98	96	99	103	107	105	230	257	256	295	258
4	255	98	96	99	103	e107	105	230	259	259	297	259
5	255	98	e96	99	103	107	105	230	260	259	298	260
6	255	98	e96	99	105	105	105	231	258	287	299	262
7	256	98	e96	99	107	e106	105	230	258	304	302	263
8	254	98	96	99	107	e106	105	230	258	301	302	265
9	305	98	96	101	107	e106	105	230	260	304	302	266
10	331	98	98	101	108	e106	107	230	259	314	302	267
11	333	98	98	101	107	e107	109	233	259	324	302	269
12	330	98	98	101	107	107	109	233	260	315	301	269
13	331	97	98	101	107	106	111	234	261	302	302	273
14	330	97	98	101	107	105	112	235	262	303	292	272
15	304	97	e98	101	107	105	112	234	261	304	282	273
16	251	96	e98	101	107	105	112	269	260	303	284	272
17	208	96	98	101	107	105	112	288	260	304	283	262
18	162	94	98	101	107	105	112	287	259	304	283	245
19	111	95	98	101	107	105	113	287	258	303	285	242
20	95	97	98	101	107	105	116	287	258	305	284	241
21	93	95	98	101	108	105	150	288	258	303	265	237
22	93	94	98	101	111	105	208	289	261	303	245	236
23	96	94	98	101	111	105	230	291	260	305	245	236
24	98	94	98	103	110	106	230	290	260	301	248	236
25	98	96	99	103	109	106	230	290	263	302	249	236
26	98	96	99	103	e108	106	228	291	262	302	249	235
27	98	96	99	103	e107	105	227	278	262	303	249	235
28	98	96	99	103	e107	105	228	251	262	300	251	234
29	98	96	99	103	---	105	228	255	261	292	251	233
30	98	96	99	103	---	105	228	254	253	291	254	233
31	98	---	99	103	---	105	---	254	---	300	252	---
TOTAL	6251	2898	3027	3131	2990	3277	4357	7921	7780	9161	8646	7580
MEAN	202	96.6	97.6	101	107	106	145	256	259	296	279	253
MAX	333	98	99	103	111	107	230	291	263	324	302	273
MIN	93	94	96	99	103	105	105	230	253	253	245	233
AC-FT	12400	5750	6000	6210	5930	6500	8640	15710	15430	18170	17150	15030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1998, BY WATER YEAR (WY)

MEAN	192	95.9	74.4	63.1	61.4	86.6	151	183	331	400	364	402
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	.000	.000	147	183	99.5
(WY)	1962	1941	1964	1964	1964	1964	1964	1940	1940	1964	1977	1961

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1939 - 1998	
ANNUAL TOTAL	93582		67019			
ANNUAL MEAN	256		184		201	
HIGHEST ANNUAL MEAN					341	1995
LOWEST ANNUAL MEAN					94.8	1941
HIGHEST DAILY MEAN	a829	Jul 1	333	Oct 11	2180	Jul 1 1957
LOWEST DAILY MEAN	b93	Oct 21	b93	Oct 21	c.00	May 1 1940
ANNUAL SEVEN-DAY MINIMUM	95	Nov 18	95	Nov 18	.00	May 1 1940
INSTANTANEOUS PEAK FLOW			d347	Oct 9	2270	Jul 1 1957
INSTANTANEOUS PEAK STAGE			d4.41	Oct 9	7.56	Jul 1 1957
ANNUAL RUNOFF (AC-FT)	185600		132900		145600	
10 PERCENT EXCEEDS	507		300		484	
50 PERCENT EXCEEDS	190		113		107	
90 PERCENT EXCEEDS	97		98		17	

e-Estimated.
a-Also occurred Jul 2.
b-Also occurred Oct 22.
c-Also occurred May 2 to Jul 3, 1940, May 7-22, 1942, May 5-21, 1943.
d-Also occurred Jul 10 and 11.

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 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1910 to current year. Monthly discharge only for some periods, published in WSP 1313.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	407	184	e126	e115	e108	e110	177	417	670	460	415	316
2	367	176	e122	e112	e108	e114	180	447	713	451	402	313
3	375	175	e121	e110	e110	e112	178	474	732	450	392	305
4	356	178	e121	e112	e112	e111	178	498	703	447	395	301
5	346	176	e121	e115	e108	e115	178	485	654	440	391	295
6	345	176	e120	e115	e104	e119	180	472	606	448	383	295
7	344	175	e121	e112	e104	e118	177	455	582	468	379	296
8	360	172	e122	e110	e110	e115	177	442	572	477	375	296
9	386	174	e124	e110	e107	e115	175	441	558	495	367	297
10	438	172	e125	e108	e115	e118	177	473	558	501	365	298
11	445	174	e122	e108	e118	e120	183	487	549	487	368	299
12	447	176	e120	e110	e118	e122	191	474	532	463	374	300
13	437	167	e110	e110	e118	e118	185	481	562	443	362	304
14	438	172	e108	e110	e110	e113	186	504	545	435	366	302
15	420	162	e118	e110	e107	e130	181	483	547	432	362	301
16	362	156	e112	e110	e115	e125	183	504	538	419	355	306
17	313	e150	e110	e105	e121	e139	177	548	540	409	350	304
18	273	e152	e109	e105	e118	e140	178	576	521	419	350	285
19	224	e160	e108	e105	e116	e141	175	595	518	409	350	279
20	192	e155	e107	e105	e112	e148	184	628	530	404	347	276
21	187	e150	e106	e105	e105	e160	219	662	531	398	340	273
22	186	e150	e105	e105	e110	173	280	671	539	426	330	273
23	190	e152	e109	e105	e128	179	329	652	531	440	328	272
24	196	e152	e118	e105	e120	187	354	655	514	435	326	272
25	190	e155	e125	e108	e120	196	367	633	505	461	325	270
26	181	e150	e130	e110	e119	198	346	654	502	470	327	270
27	184	e148	e128	e112	e116	190	336	656	498	438	325	270
28	188	e140	e128	e115	e111	186	340	655	487	433	322	270
29	189	e135	e128	e110	---	179	354	683	477	440	318	272
30	189	e128	e125	e108	---	174	385	699	468	413	316	275
31	189	---	e120	e108	---	177	---	668	---	419	319	---
TOTAL	9344	4842	3669	3388	3168	4442	6910	17172	16782	13730	11024	8685
MEAN	301	161	118	109	113	143	230	554	559	443	356	290
MAX	447	184	130	115	128	198	385	699	732	501	415	316
MIN	181	128	105	105	104	110	175	417	468	398	316	270
AC-FT	18530	9600	7280	6720	6280	8810	13710	34060	33290	27230	21870	17230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1998, BY WATER YEAR (WY)

MEAN	246	156	121	109	109	134	249	608	931	576	417	395
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 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1910 - 1998	
ANNUAL TOTAL	166405		103156			
ANNUAL MEAN	456		283		339	
HIGHEST ANNUAL MEAN					550	1995
LOWEST ANNUAL MEAN					155	1977
HIGHEST DAILY MEAN	1730	Jun 8	732	Jun 3	3600	Jun 9 1920
LOWEST DAILY MEAN	e105	Dec 22	e,a104	Feb 6	b24	Mar 12 1938
ANNUAL SEVEN-DAY MINIMUM	108	Dec 17	105	Jan 17	27	Feb 19 1941
INSTANTANEOUS PEAK FLOW			789	Jun 3	c3760	Jun 9 1920
INSTANTANEOUS PEAK STAGE			d3.00	Jun 3	f5.00	Jun 9 1920
ANNUAL RUNOFF (AC-FT)	330100		204600		245300	
10 PERCENT EXCEEDS	1230		525		743	
50 PERCENT EXCEEDS	313		198		197	
90 PERCENT EXCEEDS	140		110		82	

e-Estimated.
a-Also occurred Feb 7.
b-Minimum discharge observed for period of record, before storage began in Taylor Park Reservoir, 50 ft^3/s for several days in Aug 1913, gage height, 1.2 ft.
c-From rating curve extended above 2300 ft^3/s.
d-Maximum gage height, 4.02 ft, Jan 29, backwater from ice.
f-Maximum gage height, 5.32 ft, Jul 1, 1957.

09110000 TAYLOR RIVER AT ALMONT, CO--Continued
WATER-QUALITY RECORDS

PERIOD OF RECORD--October 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
NOV								
19...	1110	163	145	8.2	0.0	11.9	1.2	<1
JAN								
22...	0850	104	141	7.7	0.0	10.7	--	<1
APR								
27...	1520	342	130	8.4	7.5	9.1	--	<1
JUN								
03...	1130	715	114	8.0	7.5	8.6	--	K3
JUL								
17...	0830	408	120	8.0	9.0	8.6	--	9
AUG								
24...	1400	328	118	8.1	12.5	7.6	--	K3

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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
NOV								
19...	<0.01	0.06	<0.02	<0.1	<0.1	<0.01	<0.01	<0.01
JAN								
22...	0.01	<0.05	<0.02	<0.1	<0.1	<0.01	<0.01	<0.01
APR								
27...	<0.01	<0.05	0.02	<0.1	<0.1	<0.01	<0.01	0.01
JUN								
03...	0.02	0.07	0.03	0.1	<0.1	<0.01	<0.01	0.01
JUL								
17...	<0.01	0.06	0.03	0.1	<0.1	<0.01	<0.01	0.01
AUG								
24...	<0.01	<0.05	<0.02	<0.1	0.1	<0.01	<0.01	0.01

K-Based on non-ideal colony count.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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				
20...	1555	197	152	6.0
JUN				
02...	1600	691	123	11.5
30...	1345	487	127	14.5
AUG				
12...	1220	365	125	12.0

09111500 SLATE RIVER NEAR CRESTED BUTTE, CO

LOCATION.--Lat 38°52'11", long 106°58'08", in NW¼NE¼ 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 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	49	e28	e22	e16	e15	58	267	758	565	115	27
2	56	47	e28	e23	e16	e15	61	314	818	535	102	29
3	135	47	e28	e23	e16	e14	58	348	839	511	89	25
4	109	46	e23	e23	e17	e14	60	375	766	471	83	22
5	91	45	e23	e22	e17	e14	62	366	612	447	80	21
6	80	44	e23	e21	e16	e14	65	326	492	441	71	20
7	72	44	e25	e19	e16	e14	63	276	443	403	64	18
8	76	43	e25	e20	e16	e14	61	253	419	377	58	17
9	72	45	e25	e20	e16	e14	62	251	419	392	54	17
10	73	44	e24	e21	e17	e14	61	298	440	363	52	17
11	76	44	e23	e21	e16	e14	70	353	444	335	56	17
12	74	44	e20	e23	e15	e15	80	351	471	339	49	22
13	71	40	e19	e23	e15	e16	78	379	544	295	41	24
14	70	41	e20	e22	e14	e18	75	429	493	270	39	19
15	71	40	e21	e21	e15	e20	73	343	469	251	39	18
16	70	e35	e21	e21	e15	e22	71	329	460	222	36	16
17	70	e33	e19	e23	e15	e22	69	368	470	211	33	15
18	68	e34	e19	e23	e14	e22	68	462	429	202	31	14
19	65	e36	e21	e22	e14	e23	67	543	418	197	31	13
20	64	e35	e20	e20	e14	e30	71	553	481	184	30	13
21	59	e34	e20	e21	e14	e39	77	606	527	170	31	13
22	57	e33	e21	e19	e15	e46	93	588	585	170	31	13
23	55	e32	e20	e20	e15	56	119	520	615	154	28	13
24	57	e32	e20	e19	e16	66	153	513	575	171	26	13
25	55	e31	e19	e19	e15	76	163	491	540	183	26	13
26	53	e32	e18	e19	e14	82	134	569	566	154	31	12
27	56	e34	e19	e19	e13	79	122	609	587	137	31	12
28	54	e30	e20	e18	e13	74	136	691	584	133	27	12
29	52	e29	e22	e18	---	71	162	768	584	152	23	11
30	52	e29	e23	e17	---	63	208	804	581	130	22	13
31	52	---	e22	e16	---	67	---	765	---	115	21	---
TOTAL	2120	1152	679	638	425	1063	2700	14108	16429	8680	1450	509
MEAN	68.4	38.4	21.9	20.6	15.2	34.3	90.0	455	548	280	46.8	17.0
MAX	135	49	28	23	17	82	208	804	839	565	115	29
MIN	52	29	18	16	13	14	58	251	418	115	21	11
AC-FT	4210	2280	1350	1270	843	2110	5360	27980	32590	17220	2880	1010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1998, BY WATER YEAR (WY)

MEAN	32.5	24.3	16.6	13.1	11.6	18.2	123	541	623	226	56.7	26.7
MAX	68.4	38.4	25.1	23.5	20.0	40.2	303	778	971	804	237	62.7
(WY)	1998	1998	1994	1996	1996	1997	1943	1941	1995	1995	1995	1995
MIN	10.2	8.63	8.03	8.35	6.20	8.52	36.4	281	280	50.7	15.2	13.8
(WY)	1943	1943	1943	1947	1945	1950	1944	1995	1940	1940	1940	1942

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1940 - 1998	
ANNUAL TOTAL	70225		49953			
ANNUAL MEAN	192		137		146	
HIGHEST ANNUAL MEAN					214	1995
LOWEST ANNUAL MEAN					120	1994
HIGHEST DAILY MEAN	1290	Jun 2	839	Jun 3	1390	Jun 17 1995
LOWEST DAILY MEAN	e15	Jan 17	11	Sep 29	3.9	Nov 26 1942
ANNUAL SEVEN-DAY MINIMUM	17	Feb 3	12	Sep 23	5.8	Nov 21 1942
INSTANTANEOUS PEAK FLOW			915	Jun 2	1550	Jun 17 1995
INSTANTANEOUS PEAK STAGE			4.67	Jun 2	5.84	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	139300		99080		106000	
10 PERCENT EXCEEDS	700		471		535	
50 PERCENT EXCEEDS	61		44		27	
90 PERCENT EXCEEDS	18		15		10	

e-Estimated.

09111500 SLATE RIVER NEAR CRESTED BUTTE, CO--Continued
WATER-QUALITY RECORDS

PERIOD OF RECORD--March 1995 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
NOV								
18...	1445	34	151	7.8	1.0	9.9	<1	<0.01
JAN								
20...	1545	22	217	7.5	0.0	10.1	K3	0.01
APR								
27...	1245	121	159	7.9	5.5	9.6	K1	0.01
MAY								
27...	1530	564	79	7.7	11.0	7.9	K1	0.01
JUL								
15...	1500	235	91	7.6	15.5	7.1	K10	0.01
AUG								
26...	0855	32	145	7.8	11.5	7.4	210	<0.01

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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
NOV							
18...	0.14	0.08	0.2	0.2	0.01	<0.01	<0.01
JAN							
20...	0.40	0.31	0.4	0.4	0.07	0.05	0.07
APR							
27...	0.23	0.03	0.2	<0.1	0.02	<0.01	0.03
MAY							
27...	0.08	0.06	<0.1	<0.1	0.02	<0.01	<0.01
JUL							
15...	0.10	0.06	<0.1	<0.1	<0.01	<0.01	0.02
AUG							
26...	0.25	0.17	0.3	<0.1	0.05	0.05	0.04

K-Based on non-ideal colony count.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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...	1555	56	167	11.5
DEC				
18...	1010	18	180	0.0
FEB				
19...	0945	14	210	0.0
JUN				
02...	1750	854	66	11.0
JUL				
01...	1835	534	68	14.5
AUG				
12...	1500	49	160	18.0

09112200 EAST RIVER BELOW CEMENT CREEK NEAR CRESTED BUTTE, CO

LOCATION.--Lat 38°47'03", long 106°52'13", in NE¼NE¼ sec.3, T.15 S., R.85 W., Gunnison County, Hydrologic Unit 14020001, on left bank 11 ft downstream from bridge on State Highway 135, 1.6 mi downstream from Cement Creek, and 8.5 mi southeast of Crested Butte.

DRAINAGE AREA.--238 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to September 1972, October 1979 to September 1981, October 1993 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,440 ft above sea level, from topographic map. Prior to Oct. 1993, water-stage recorder 0.5 mi upstream, at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 4,500 acres upstream and downstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151	160	110	95	e64	e64	99	520	e1250	1040	283	131
2	159	141	112	83	e66	e63	104	602	e1340	985	260	135
3	303	142	104	85	73	68	99	685	e1400	933	226	123
4	284	145	95	87	72	68	101	764	1380	864	203	114
5	230	133	e100	87	71	68	105	758	1160	818	195	111
6	205	132	e98	84	72	68	110	724	950	815	182	110
7	186	130	100	e66	72	66	105	635	852	771	172	107
8	203	129	100	e62	72	65	101	603	796	717	163	105
9	185	136	100	e64	72	69	100	575	779	747	160	103
10	192	131	102	84	e66	73	102	619	782	761	158	102
11	199	134	e90	84	e62	72	121	713	767	665	165	102
12	209	135	e86	85	75	71	146	696	804	655	151	107
13	192	112	e80	85	e68	70	142	722	964	581	141	116
14	186	125	e80	84	71	68	134	812	873	525	144	105
15	187	90	e86	e69	71	74	129	681	831	487	143	102
16	181	108	e76	85	70	78	126	645	795	424	137	102
17	176	121	e74	86	69	84	120	683	813	408	135	98
18	171	116	88	81	67	84	119	797	760	389	131	94
19	166	122	91	83	69	78	117	910	750	387	128	91
20	160	127	e72	84	74	78	128	934	875	373	123	88
21	152	117	e70	e74	76	79	141	1040	960	343	115	88
22	145	113	84	e68	68	83	178	1060	1060	355	112	88
23	144	124	91	78	70	96	234	914	1120	328	110	87
24	165	120	e78	e62	71	110	313	903	1060	382	108	85
25	157	117	93	76	68	134	347	850	980	399	112	82
26	139	117	e76	79	68	148	284	959	1030	367	127	80
27	150	120	e73	e65	e64	141	253	982	1080	329	132	80
28	163	117	e72	e60	e63	134	285	1120	1070	318	128	78
29	164	111	87	e62	---	120	337	1270	1060	358	119	79
30	170	120	84	e64	---	108	422	1370	1060	310	114	82
31	168	---	88	73	---	104	---	1290	---	282	115	---
TOTAL	5642	3745	2740	2384	1944	2686	5102	25836	29401	17116	4692	2975
MEAN	182	125	88.4	76.9	69.4	86.6	170	833	980	552	151	99.2
MAX	303	160	112	95	76	148	422	1370	1400	1040	283	135
MIN	139	90	70	60	62	63	99	520	750	282	108	78
AC-FT	11190	7430	5430	4730	3860	5330	10120	51250	58320	33950	9310	5900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1998, BY WATER YEAR (WY)

MEAN	119	90.5	71.2	62.6	58.8	68.7	232	1029	1381	604	219	139
MAX	188	125	96.2	83.2	76.0	111	404	1606	2450	1796	609	271
(WY)	1966	1998	1966	1971	1971	1972	1971	1996	1995	1995	1995	1965
MIN	58.5	62.4	51.7	43.8	42.7	43.5	77.0	406	633	181	91.7	64.3
(WY)	1964	1964	1964	1995	1964	1964	1964	1981	1981	1981	1981	1994

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1964 - 1998	
ANNUAL TOTAL	177472		104263			
ANNUAL MEAN	486		286		340	
HIGHEST ANNUAL MEAN					531	1995
LOWEST ANNUAL MEAN					162	1981
HIGHEST DAILY MEAN	2790	Jun 5	e1400	Jun 3	3610	Jun 17 1995
LOWEST DAILY MEAN	e45	Feb 8	e60	Jan 28	36	Jan 24 1995
ANNUAL SEVEN-DAY MINIMUM	50	Feb 26	65	Jan 27	40	Feb 21 1964
INSTANTANEOUS PEAK FLOW			a1560	Jun 4	4350	Jun 18 1995
INSTANTANEOUS PEAK STAGE			a3.66	Jun 4	b5.06	Jun 18 1995
ANNUAL RUNOFF (AC-FT)	352000		206800		246500	
10 PERCENT EXCEEDS	1830		851		1060	
50 PERCENT EXCEEDS	165		123		109	
90 PERCENT EXCEEDS	56		70		55	

e-Estimated
a-May have been higher during period of no gage-height record, Jun 1-3.
b-Maximum gage height for period of record, 8.30 ft, Jun 12, 1980, from floodmarks, site and datum then in use.

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 (discontinued).
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 (discontinued).

REMARKS.--Upper Colorado River Basin National Water Quality Assessment station (NAWQA). Daily water-temperature data are good. Daily data not published are missing.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 366 microsiemens Dec. 15, 1995; minimum, 125 microsiemens June 22, 1995.
WATER TEMPERATURE: Maximum, 18.5°C Aug. 7, 1998; minimum, 0.0°C on many days during winter months.
DISSOLVED OXYGEN: Maximum, 13.5 mg/L Feb. 17, 1997 (may have been higher during periods of missing record); minimum 6.7 mg/L July 24, 1996 (may have been lower during periods of missing record).

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 18.5°C, Aug. 7; minimum, 0.0°C on many days October to March.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	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)
OCT												
22...	1035	144	265	8.4	3.0	--	9.7	--	--	130	39	6.6
NOV												
19...	1115	105	293	8.2	3.5	0.3	9.8	1.2	8	150	46	8.0
DEC												
16...	1445	76	286	8.1	1.5	--	10.6	--	--	140	43	7.6
JAN												
21...	1350	96	266	8.5	0.0	--	10.9	--	K2	130	39	6.9
FEB												
19...	1530	66	291	8.7	4.0	--	10.8	--	--	130	41	7.6
MAR												
19...	1145	82	270	8.8	3.0	--	11.1	--	--	130	39	7.0
APR												
23...	1100	200	245	8.3	5.0	--	9.4	--	--	120	39	6.7
29...	1530	304	222	8.3	9.5	2.7	8.8	0.4	<1	110	33	5.7
MAY												
28...	1300	1070	153	8.1	8.0	--	8.5	1.0	66	71	23	3.5
JUN												
02...	0820	1410	142	7.6	4.5	4.9	9.5	--	--	72	23	3.5
10...	1030	784	177	8.0	7.0	--	9.2	--	--	89	28	4.6
JUL												
15...	1145	497	202	8.1	12.5	--	8.0	--	30	100	33	4.8
AUG												
05...	1440	197	248	8.3	17.0	--	7.1	--	--	120	38	6.0
26...	1000	135	293	8.4	11.5	0.5	8.2	1.7	K13	150	46	7.4
SEP												
10...	0910	103	298	8.4	10.0	--	8.1	--	--	140	45	7.5

K-Based on non-ideal colony count.

09112200 EAST RIVER BELOW CEMENT CREEK NEAR CRESTED BUTTE, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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)	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, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
OCT												
22...	3.1	0.1	0.7	103	2	88	33	0.9	0.1	6.0	159	143
NOV												
19...	3.8	0.1	0.9	134	--	110	34	1.1	0.1	6.9	176	168
DEC												
16...	4.4	0.2	1.0	134	--	110	39	1.3	0.2	6.7	182	170
JAN												
21...	5.0	0.2	1.0	121	2	103	33	1.6	0.3	6.8	168	157
FEB												
19...	5.7	0.2	1.1	132	5	116	33	1.7	0.2	7.1	177	168
MAR												
19...	5.8	0.2	1.0	121	6	109	32	2.5	0.2	7.0	170	162
APR												
23...	3.6	0.1	0.8	110	--	90	28	1.9	0.1	6.5	149	142
29...	3.6	0.2	0.8	104	1	87	25	1.7	<0.1	6.4	136	129
MAY												
28...	1.7	0.1	0.5	68	--	56	13	0.4	<0.1	4.9	96	80
JUN												
02...	1.4	0.1	0.5	73	--	60	11	0.4	<0.1	4.7	87	81
10...	1.9	0.1	0.5	89	--	73	14	0.3	<0.1	5.5	105	99
JUL												
15...	1.7	0.1	0.7	100	--	82	15	0.4	<0.1	5.1	115	111
AUG												
05...	3.0	0.1	0.9	140	1	117	20	0.8	0.1	6.6	145	145
26...	3.8	0.1	0.8	146	5	128	25	1.0	0.1	7.4	165	168
SEP												
10...	4.3	0.2	1.0	144	6	128	27	1.1	0.2	7.0	187	170

DATE	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)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)
OCT												
22...	0.22	61.8	<0.01	0.08	<0.01	<0.2	<0.2	<0.01	<0.01	<0.01	0.8	<0.2
NOV												
19...	0.24	49.9	<0.01	0.16	<0.02	<0.1	<0.1	<0.01	<0.01	0.018	0.8	0.5
DEC												
16...	0.25	37.3	<0.01	0.23	<0.02	<0.1	<0.1	<0.01	<0.01	0.01	0.8	<0.2
JAN												
21...	0.23	43.5	<0.01	0.25	<0.02	<0.1	<0.1	<0.01	0.01	0.02	0.6	0.6
FEB												
19...	0.24	31.5	<0.01	0.22	0.04	0.2	0.1	0.05	0.04	0.04	1.0	0.3
MAR												
19...	0.23	37.6	<0.01	0.27	0.11	0.2	0.1	0.06	0.02	0.03	1.0	0.3
APR												
23...	0.20	80.5	<0.01	0.19	0.04	0.1	<0.1	0.03	0.02	0.02	1.5	0.7
29...	0.18	112	<0.01	0.15	0.03	0.2	<0.1	0.02	<0.01	0.02	1.9	0.4
MAY												
28...	0.13	277	0.02	0.09	0.04	0.2	<0.1	0.03	0.01	<0.01	2.0	0.4
JUN												
02...	0.12	385	0.02	0.12	0.07	0.1	<0.1	0.03	<0.01	0.01	2.1	0.4
10...	0.14	222	<0.01	0.06	0.04	0.1	<0.1	<0.01	<0.01	<0.01	1.6	0.3
JUL												
15...	0.16	154	0.01	0.06	0.07	<0.1	<0.1	<0.01	<0.01	0.02	1.0	0.3
AUG												
05...	0.20	77.1	<0.01	<0.05	0.04	<0.1	<0.1	<0.01	<0.01	<0.01	0.9	0.2
26...	0.22	60.1	<0.01	0.07	0.02	<0.1	<0.1	<0.01	<0.01	<0.01	0.8	0.5
SEP												
10...	0.25	52.0	<0.01	0.05	<0.002	<0.1	<0.1	0.005	0.004	0.001	0.7	0.2

09112200 EAST RIVER BELOW CEMENT CREEK NEAR CRESTED BUTTE, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	ZINC, DISSOLVED (UG/L AS ZN) (01090)
OCT									
22...	--	--	--	--	11	--	--	4	--
NOV									
19...	<5	<1	<1	50	9	<1	<10	3	5
DEC									
16...	--	--	--	--	<10	--	--	<4	--
JAN									
21...	--	--	--	--	12	--	--	5	--
FEB									
19...	--	--	--	--	<10	--	--	<4	--
MAR									
19...	--	--	--	--	<10	--	--	5	--
APR									
23...	--	--	--	--	15	--	--	27	--
29...	21	<1	2	340	22	<1	54	33	29
MAY									
28...	--	--	--	--	19	--	--	8	--
JUN									
02...	12	<1	1	640	14	<1	60	7	<20
10...	--	--	--	--	12	--	--	5	--
JUL									
15...	--	--	--	--	17	--	--	7	--
AUG									
05...	--	--	--	--	13	--	--	5	--
26...	<10	<1	<1	80	<10	<1	10	5	<20
SEP									
10...	--	--	--	--	<10	--	--	<4	--

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT				
22...	1140	144	273	4.0
NOV				
18...	1230	113	294	1.5
JAN				
21...	1530	96	275	0.0
MAR				
19...	1146	82	270	3.0
APR				
27...	1440	231	241	9.0
JUN				
03...	1510	1430	155	10.0
JUL				
02...	0845	1040	163	8.0
AUG				
12...	1350	153	282	15.5

09112200 EAST RIVER BELOW CEMENT CREEK NEAR CRESTED BUTTE, CO--Continued
(National Water-Quality Assessment Program station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)[a]	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT				
22...	1035	144	1	0.39
NOV				
19...	1115	105	<1	<0.01
DEC				
16...	1445	76	1	0.21
16...	1446	76	1	0.21
JAN				
21...	1350	96	5	1.2
FEB				
19...	1530	66	2	0.30
MAR				
19...	1145	82	3	0.60
APR				
23...	1100	200	14	7.8
29...	1530	304	13	11
MAY				
28...	1300	1070	63	182
JUN				
02...	0820	1410	36	137
10...	1030	784	10	21
JUL				
15...	1145	497	5	6.7
AUG				
05...	1440	197	1	0.53
26...	1000	135	1	0.36
SEP				
10...	0910	103	1	0.28

a-Suspended-sediment concentration determined from a subsample split of a composite sample.

09112200 EAST RIVER BELOW CEMENT CREEK NEAR CRESTED BUTTE, CO--Continued
(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	13.5	7.1	10.3	4.8	1.0	2.8	2.0	.0	.7	2.1	.0	.7
2	12.6	8.4	10.0	5.6	.4	2.3	3.4	.4	1.4	2.8	1.2	1.8
3	12.3	8.7	9.8	5.3	.2	2.2	3.1	.0	1.0	3.4	1.6	2.0
4	11.8	5.9	8.8	5.6	.5	2.7	.4	.0	.1	3.1	1.2	1.9
5	12.1	5.6	8.8	5.4	.8	2.9	.4	.0	.1	2.6	.4	1.3
6	12.3	5.9	9.0	5.7	.8	3.2	.8	.0	.2	2.3	.0	.6
7	10.7	7.0	8.9	5.7	.8	3.2	1.5	.0	.7	.2	.0	.1
8	8.5	5.7	6.9	5.1	1.2	3.1	2.1	.7	1.0	1.0	.0	.2
9	9.8	3.4	6.4	5.3	2.1	3.4	2.3	.2	.9	1.2	.0	.2
10	9.8	4.3	7.1	3.9	1.8	2.9	1.3	.0	.4	2.1	.2	1.0
11	9.8	6.2	7.8	5.0	2.0	3.2	.7	.0	.1	2.9	.6	1.5
12	6.7	3.9	5.2	4.5	1.6	2.7	.0	.0	.0	3.1	.5	1.4
13	7.0	1.2	4.1	3.5	.2	1.6	.0	.0	.0	2.9	.0	1.2
14	8.4	1.6	4.9	2.6	.2	1.0	.5	.0	.1	2.6	.0	.8
15	8.7	2.4	5.4	2.0	.0	.3	1.0	.0	.3	1.0	.0	.3
16	8.8	2.8	5.8	1.0	.0	.1	1.3	.0	.3	3.1	.5	1.5
17	9.3	3.1	6.1	1.8	.0	.7	1.2	.0	.3	2.0	1.0	1.4
18	9.0	3.4	6.2	2.8	.2	.9	1.6	.0	.6	3.5	.0	1.4
19	8.8	3.2	6.0	3.7	.4	1.3	2.1	.0	.6	2.0	.0	.7
20	8.1	4.0	5.8	3.4	.4	1.6	1.3	.0	.3	3.1	.0	1.1
21	8.5	2.8	5.5	1.3	.0	.5	1.0	.0	.3	.4	.0	.1
22	7.8	2.6	5.1	1.8	.0	.3	2.4	.0	.8	.5	.0	.1
23	6.5	2.3	4.4	1.6	.0	.3	1.5	.0	.4	1.8	.0	.6
24	4.2	1.0	2.6	2.6	.0	.6	1.0	.0	.3	2.0	.0	.5
25	4.0	1.0	2.2	2.6	.0	.8	1.0	.0	.2	3.1	.1	1.2
26	4.0	.0	1.5	1.3	.4	.8	.2	.0	.0	2.9	.0	.8
27	4.0	.0	1.5	2.9	.4	1.3	.0	.0	.0	2.1	.0	.5
28	4.6	.0	2.1	2.9	.0	.8	.4	.0	.1	2.4	.0	.5
29	5.1	.5	2.7	2.9	.0	1.0	1.5	.0	.6	2.3	.0	.6
30	7.0	2.3	4.3	1.5	.0	.4	2.3	.2	.9	2.8	.0	.9
31	4.5	2.4	3.5	---	---	---	2.1	.0	.6	2.6	.0	.9
MONTH	13.5	.0	5.8	5.7	.0	1.6	3.4	.0	.4	3.5	.0	.9

		FEBRUARY			MARCH			APRIL			MAY	
1	2.0	.0	.4	2.3	.0	.4	---	---	---	9.5	1.7	5.7
2	1.8	.0	.7	3.1	.0	.9	---	---	---	10.1	2.0	5.9
3	4.2	.5	1.8	4.8	.4	2.0	---	---	---	10.2	1.8	5.9
4	3.7	.5	1.7	4.3	1.0	2.2	---	---	---	8.7	1.4	5.2
5	4.5	.5	1.8	5.9	1.0	2.6	---	---	---	7.9	2.0	5.0
6	4.6	.2	1.9	4.8	1.0	2.2	---	---	---	6.4	2.9	4.8
7	4.0	.7	1.9	3.2	.0	1.6	---	---	---	8.4	1.7	4.9
8	3.2	1.0	1.8	3.4	.0	.9	---	---	---	7.6	2.2	5.2
9	4.2	.0	1.6	4.3	.0	1.1	---	---	---	9.0	3.6	6.3
10	3.1	.0	.8	3.9	.0	1.1	---	---	---	10.9	3.1	7.2
11	1.3	.0	.3	5.3	.0	1.5	---	---	---	9.9	3.4	6.9
12	2.8	.0	.7	6.0	.0	1.8	---	---	---	9.5	2.6	6.2
13	2.6	.0	.8	6.5	.0	2.0	---	---	---	10.7	3.3	7.0
14	4.5	.7	1.9	7.0	.2	2.5	---	---	---	7.5	3.7	5.8
15	4.2	.8	2.1	7.9	.5	3.1	---	---	---	10.2	2.6	6.2
16	4.8	.7	2.1	7.6	.7	3.1	---	---	---	9.8	2.8	6.6
17	5.0	.7	2.1	6.0	.7	2.6	---	---	---	11.0	2.9	7.2
18	4.6	.2	1.5	3.2	.0	1.2	---	---	---	10.2	3.6	7.2
19	4.3	.0	1.0	---	.0	---	---	---	---	10.4	3.9	7.3
20	3.4	.0	.8	---	---	---	---	---	---	9.5	4.2	7.0
21	4.0	.0	1.1	---	---	---	---	---	---	9.6	5.0	7.2
22	4.8	.2	1.6	---	---	---	---	---	---	8.5	3.3	6.1
23	4.8	1.0	2.2	---	---	---	---	---	---	10.7	3.6	7.1
24	5.0	1.0	2.2	---	---	---	---	---	---	8.8	4.0	6.7
25	4.5	.2	1.9	---	---	---	---	---	---	11.0	3.6	7.4
26	4.0	.0	1.0	---	---	---	---	---	---	9.5	4.5	7.3
27	1.3	.0	.2	---	---	---	---	---	---	11.9	3.9	7.9
28	2.1	.0	.3	---	---	---	---	---	---	11.9	4.3	8.2
29	---	---	---	---	---	---	10.0	---	---	12.3	4.3	8.3
30	---	---	---	---	---	---	10.4	2.0	6.2	10.7	5.1	7.9
31	---	---	---	---	---	---	---	---	---	11.5	4.0	7.8
MONTH	5.0	.0	1.4	---	---	---	---	---	---	12.3	1.4	6.6

09112200 EAST RIVER BELOW CEMENT CREEK NEAR CRESTED BUTTE, CO--Continued
(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	12.6	4.7	8.6	14.3	7.5	11.2	14.4	11.6	12.9	14.7	11.0	12.3
2	12.7	4.5	8.6	14.3	8.2	11.6	16.3	9.1	12.6	17.7	10.4	13.3
3	10.6	4.8	8.0	12.8	8.7	11.0	16.1	9.9	12.8	18.0	9.7	13.4
4	8.7	4.7	6.7	13.3	8.8	11.2	15.8	9.7	12.3	17.5	9.6	13.2
5	8.7	4.7	6.5	13.8	8.4	11.4	18.0	10.4	13.5	18.0	9.7	13.5
6	9.6	3.7	6.9	13.3	9.9	11.6	18.2	10.0	13.7	18.0	9.7	13.5
7	10.7	5.6	8.2	11.7	8.8	10.6	18.5	10.2	13.9	18.0	10.2	13.9
8	10.9	5.3	8.0	14.1	9.0	11.5	17.4	10.2	13.5	17.4	10.0	13.3
9	11.8	5.3	8.4	13.2	9.9	11.4	16.9	11.0	13.6	16.6	11.0	13.4
10	10.6	5.6	8.3	12.6	9.8	11.1	14.2	10.8	12.6	---	---	---
11	10.1	5.3	7.7	14.9	8.8	11.7	15.5	10.0	12.3	---	---	---
12	12.3	5.4	8.8	15.5	8.8	12.2	16.4	9.3	12.8	---	---	---
13	10.2	6.4	8.5	15.0	9.2	12.4	16.3	9.9	12.9	---	---	---
14	10.4	6.4	8.3	16.1	10.1	13.2	17.4	9.6	12.5	---	---	---
15	12.3	5.1	8.6	16.9	9.8	13.2	17.7	9.3	13.0	---	---	---
16	10.1	7.0	8.8	16.8	10.2	13.5	16.9	9.7	13.0	---	---	---
17	10.7	6.7	8.6	17.3	10.4	13.8	17.4	10.4	13.2	---	---	---
18	12.3	5.8	8.9	17.7	10.7	14.2	16.9	10.2	13.1	---	---	---
19	13.5	6.1	9.9	15.0	11.0	13.1	16.6	10.0	12.9	---	---	---
20	12.1	6.2	9.4	16.0	9.9	12.8	17.4	9.7	13.2	---	---	---
21	12.7	6.4	9.5	17.8	10.3	13.6	15.0	11.0	12.7	---	---	---
22	13.5	6.1	9.9	15.3	11.4	13.2	17.2	9.9	13.2	---	---	---
23	13.2	6.1	9.7	15.4	11.7	13.3	18.0	9.7	13.4	---	---	---
24	12.7	5.9	9.5	15.3	11.8	13.5	15.5	10.5	12.7	---	---	---
25	13.6	5.9	9.8	15.1	11.8	13.3	15.2	10.2	12.5	---	---	---
26	13.9	6.4	10.3	14.8	11.4	12.8	17.2	10.5	13.5	---	---	---
27	14.1	6.5	10.5	17.5	10.6	13.7	15.8	11.1	13.2	---	---	---
28	14.4	6.8	10.8	14.9	12.2	13.4	17.7	9.0	13.0	---	---	---
29	14.7	7.1	11.1	15.9	11.7	13.5	18.0	9.9	13.5	---	---	---
30	14.4	7.5	11.3	15.4	10.5	13.1	18.2	9.7	13.5	---	---	---
31	---	---	---	15.9	10.9	13.3	15.5	9.7	12.4	---	---	---
MONTH	14.7	3.7	8.9	17.8	7.5	12.6	18.5	9.0	13.0	---	---	---

09112500 EAST RIVER AT ALMONT, CO

LOCATION.--Lat 38°39'52", long 106°50'51", in NW¼SE¼ 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.

DRAINAGE AREA.--289 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April to October 1905, July 1910 to September 1922, October 1934 to current year. Monthly discharges only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1313: 1911. WSP 1733: 1952. WSP 1924: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,006.29 ft above sea level. Apr. 16 to Sept. 30, 1905, and July 27, 1910 to Apr. 30, 1922, nonrecording gages at bridge 200 ft downstream, at different datums. Oct. 1, 1934 to Sept. 22, 1954, water-stage recorder at present site at datum 2.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 7,400 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	130	106	e74	70	61	105	428	e1360	1040	313	147
2	161	118	106	e76	70	64	115	517	e1450	970	301	155
3	234	116	101	e76	70	64	104	620	1480	924	271	145
4	246	126	74	e74	66	63	110	723	1370	853	248	137
5	207	122	88	e72	63	64	114	742	1130	808	236	132
6	189	122	101	e66	63	63	118	720	880	805	215	129
7	177	120	118	e62	64	64	113	626	754	786	200	127
8	184	118	103	e66	64	54	109	577	701	722	187	124
9	178	124	97	e66	65	57	108	539	673	744	177	123
10	179	118	96	e72	63	59	107	578	661	783	175	121
11	180	116	e88	e70	63	61	120	694	652	679	170	119
12	190	117	e74	e70	67	60	143	688	679	660	182	122
13	175	97	e78	e66	67	61	141	708	860	588	189	132
14	173	114	e80	e64	65	62	134	829	790	527	191	125
15	175	83	e80	e66	65	65	128	687	758	486	193	119
16	169	80	e80	e72	64	69	124	643	725	401	179	117
17	165	108	e82	e64	62	74	117	681	733	388	172	113
18	163	106	e84	e64	61	80	117	809	690	382	164	111
19	159	107	e82	e64	60	73	112	932	670	376	162	108
20	155	112	e78	e60	61	73	118	941	791	372	160	104
21	152	98	e82	e58	63	75	123	1060	900	358	152	102
22	147	100	e80	e58	64	80	147	1100	1030	360	146	96
23	142	96	e72	e70	67	96	190	883	1120	357	143	77
24	153	116	e72	e68	66	112	255	878	1050	374	141	69
25	148	107	e70	e70	65	142	305	797	960	401	139	68
26	132	105	e64	e72	59	159	255	903	1010	389	150	68
27	135	110	e68	e70	59	154	224	935	1060	357	158	68
28	141	105	e80	e70	61	147	246	1090	1060	349	155	67
29	141	103	e78	e70	---	131	288	1270	1060	357	146	69
30	145	93	e74	e72	---	113	352	e1360	1060	345	140	71
31	137	---	e74	e72	---	115	---	e1380	---	321	137	---
TOTAL	5197	3287	2610	2114	1797	2615	4742	25338	28117	17262	5692	3265
MEAN	168	110	84.2	68.2	64.2	84.4	158	817	937	557	184	109
MAX	246	130	118	76	70	159	352	1380	1480	1040	313	155
MIN	132	80	64	58	59	54	104	428	652	321	137	67
AC-FT	10310	6520	5180	4190	3560	5190	9410	50260	55770	34240	11290	6480

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1998, BY WATER YEAR (WY)

MEAN	118	95.6	73.4	62.3	59.5	68.0	248	1031	1390	573	236	130
MAX	279	173	128	102	90.4	137	670	1978	2670	2037	659	271
(WY)	1912	1987	1985	1985	1962	1986	1936	1936	1920	1957	1995	1965
MIN	56.3	47.8	42.0	25.5	28.7	43.1	77.2	222	289	93.5	25.0	52.4
(WY)	1978	1978	1977	1940	1940	1976	1964	1977	1977	1977	1913	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1911 - 1998	
ANNUAL TOTAL	174796		102036			
ANNUAL MEAN	479		280		341	
HIGHEST ANNUAL MEAN					574	1995
LOWEST ANNUAL MEAN					104	1977
HIGHEST DAILY MEAN	3010	Jun 8	1480	Jun 3	5000	Jun 12 1918
LOWEST DAILY MEAN	e45	Feb 8	54	Mar 8	19	Aug 13 1913
ANNUAL SEVEN-DAY MINIMUM	51	Feb 4	59	Mar 8	21	Jan 15 1940
INSTANTANEOUS PEAK FLOW			a1620	Jun 3	b6500	Jun 15 1921
INSTANTANEOUS PEAK STAGE			a5.53	Jun 3	c6.60	Jun 15 1921
ANNUAL RUNOFF (AC-FT)	346700		202400		247100	
10 PERCENT EXCEEDS	1760		806		1060	
50 PERCENT EXCEEDS	159		125		108	
90 PERCENT EXCEEDS	57		64		55	

e-Estimated.
a-May have been higher during period of no gage-height record, May 30 to Jun 2.
b-Site and datum then in use, from rating curve extended above 3000 ft^3/s.
c-Maximum gage height 8.41 ft, Jun 18, 1995, present datum.

09112500 EAST RIVER AT ALMONT, CO--Continued
WATER-QUALITY RECORDS

PERIOD OF RECORD--October 1990 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV											
19...	1215	96	300	8.4	3.0	0.3	10.4	1.2	K1	160	49
JAN											
22...	1020	58	331	8.3	0.0	--	11.2	--	K1	--	--
APR											
29...	1235	286	245	8.4	7.5	4.7	9.6	0.2	K1	120	39
JUN											
03...	1315	1500	165	8.1	11.5	6.5	8.1	1.4	147	79	25
JUL											
17...	0930	412	252	8.1	12.0	--	8.2	--	69	--	--
AUG											
27...	1000	161	298	8.4	12.5	0.3	8.1	0.8	49	150	48

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
NOV											
19...	8.2	182	149	<0.01	0.13	<0.02	<0.1	<0.1	0.02	<0.01	<0.01
JAN											
22...	--	--	--	0.01	0.22	<0.02	<0.1	<0.1	<0.01	<0.01	<0.01
APR											
29...	6.6	--	--	0.01	0.11	0.04	0.1	0.1	<0.01	<0.01	0.01
JUN											
03...	4.0	--	--	0.02	0.09	0.02	0.2	<0.1	<0.01	<0.01	0.02
JUL											
17...	--	--	--	<0.01	0.08	0.03	<0.1	<0.1	<0.01	<0.01	0.01
AUG											
27...	7.8	--	--	<0.01	0.09	0.02	<0.1	0.1	<0.01	<0.01	<0.01

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, 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)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV							
19...	<5	<1	<1	40	<1	<10	7
APR							
29...	18	<1	1	430	<1	40	<20
JUN							
03...	<10	<1	<1	560	<1	40	<20
AUG							
27...	<10	<1	<1	220	<1	60	<20

K-Based on non-ideal colony count.

09112500 EAST RIVER AT ALMONT, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT				
20...	1725	160	282	7.0
NOV				
18...	1045	96	313	0.0
JUN				
02...	1024	1450	180	5.5
30...	1510	1040	204	14.5
AUG				
11...	1055	179	316	12.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTMBER 1998

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
NOV				
19...	1215	96	1	0.34
APR				
29...	1235	286	16	12
JUN				
03...	1315	1500	82	333
AUG				
27...	1000	161	5	2.1

09113100 CASTLE CREEK ABOVE MOUTH NEAR BALDWIN, CO

LOCATION.--Lat 38°46'09", long 107°05'02", T.15 S., R.87 W., Gunnison County, Hydrologic Unit 14020002, on left bank 1.5 mi upstream from mouth, and 25 mi northwest of Gunnison.

DRAINAGE AREA.--22.4 mi^2.

PERIOD OF RECORD.--October 1992 to September 1998 (discontinued).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,820 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream for irrigation of a few acres 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	e8.8	e6.0	e5.6	e6.4	e6.8	e7.8	45	99	e98	39	16
2	19	e8.2	e5.8	e5.7	e6.4	e6.4	e7.8	52	107	e96	35	15
3	55	e8.0	e5.4	e5.6	e6.6	e8.0	e7.4	65	103	e92	32	12
4	34	e8.0	e5.2	e5.4	e6.7	e8.1	e7.2	72	96	e85	30	10
5	26	e8.0	e5.4	e5.1	e6.6	e6.8	e7.1	61	83	e78	28	8.8
6	22	e7.8	e5.4	e4.6	e6.6	e6.8	e7.0	54	73	e76	25	8.5
7	20	e7.8	e5.6	e5.0	e6.8	e6.8	e6.8	48	69	e75	23	8.0
8	22	e7.8	e5.6	e5.0	e7.0	e6.8	e6.4	47	68	71	21	7.9
9	22	e7.8	e5.4	e5.6	e6.6	e6.6	6.4	44	64	70	18	7.6
10	21	e7.9	e5.2	e5.8	e6.8	e6.6	8.1	58	64	75	16	8.1
11	20	e8.0	e4.9	e5.8	e8.0	e6.6	8.5	61	63	75	19	8.4
12	18	e7.8	e4.6	e5.7	e7.6	e6.7	9.4	61	67	69	23	13
13	17	e7.6	e5.0	e5.5	e8.2	e6.8	8.8	71	81	56	18	11
14	19	e6.6	e5.4	e5.4	e8.4	e7.0	8.8	70	64	52	16	9.1
15	19	e6.4	e5.4	e5.8	e8.8	e7.7	8.0	56	61	47	14	9.3
16	18	e6.6	e5.4	e6.0	e9.0	e8.3	7.8	59	77	43	13	9.5
17	16	e6.8	e5.4	e5.8	e9.4	e9.4	7.3	68	86	44	14	8.7
18	15	e6.6	e5.5	e5.8	e9.7	e10	6.8	79	72	43	13	8.0
19	14	e6.6	e5.6	e5.9	e9.2	e9.8	7.4	83	77	42	13	7.4
20	13	e6.6	e5.1	e6.0	e9.0	e9.0	7.1	90	94	40	15	7.1
21	e11	e6.4	e5.3	e5.8	e9.2	e8.8	8.4	97	97	39	15	6.8
22	e10	e6.4	e5.6	e6.4	e9.0	e8.4	12	87	109	47	14	6.4
23	e11	e6.4	e5.2	e6.6	e8.6	e8.4	21	79	105	41	13	6.8
24	e11	e6.3	e5.2	e6.5	e8.4	e8.6	30	80	93	67	14	6.3
25	e10	e6.3	e5.0	e6.6	e8.6	e9.0	31	80	75	49	19	5.9
26	e10	e6.3	e5.0	e6.6	e8.8	e10	26	85	85	45	21	5.6
27	e10	e6.6	e5.3	e6.6	e8.1	e11	24	89	92	43	17	5.3
28	e10	e6.3	e5.8	e6.2	e8.0	e12	26	101	95	49	15	5.3
29	e9.8	e6.2	e5.6	e6.1	---	e11	31	109	103	62	13	6.1
30	e9.6	e6.1	e5.6	e6.3	---	e10	38	103	101	42	12	7.4
31	e9.6	---	e5.6	e6.4	---	e8.2	---	95	---	38	10	---
TOTAL	537.0	213.0	166.5	181.2	222.5	256.4	399.3	2249	2523	1849	588	255.3
MEAN	17.3	7.10	5.37	5.85	7.95	8.27	13.3	72.5	84.1	59.6	19.0	8.51
MAX	55	8.8	6.0	6.6	9.7	12	38	109	109	98	39	16
MIN	9.6	6.1	4.6	4.6	6.4	6.4	6.4	44	61	38	10	5.3
AC-FT	1070	422	330	359	441	509	792	4460	5000	3670	1170	506

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1998, BY WATER YEAR (WY)

MEAN	10.7	6.86	5.70	5.49	5.84	6.87	19.1	92.1	147	79.9	30.4	12.8
MAX	17.3	7.92	6.30	6.11	7.95	8.27	33.1	123	210	175	61.1	19.7
(WY)	1998	1996	1994	1997	1998	1998	1996	1997	1995	1995	1995	1997
MIN	5.66	5.47	4.75	4.26	4.78	5.47	8.36	47.2	84.1	22.9	11.7	7.16
(WY)	1993	1993	1995	1995	1995	1993	1993	1995	1998	1994	1994	1994

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1993 - 1998	
ANNUAL TOTAL	15432.3		9440.2			
ANNUAL MEAN	42.3		25.9		35.4	
HIGHEST ANNUAL MEAN					46.3	1995
LOWEST ANNUAL MEAN					24.6	1994
HIGHEST DAILY MEAN	a232	Jun 2	b109	May 29	414	Jun 18 1995
LOWEST DAILY MEAN	e4.6	Dec 12	e,c4.6	Dec 12	3.0	Jan 2 1995
ANNUAL SEVEN-DAY MINIMUM	5.1	Dec 9	5.1	Dec 9	3.9	Dec 31 1994
INSTANTANEOUS PEAK FLOW			d152	Jul 28	982	Jun 18 1995
INSTANTANEOUS PEAK STAGE			d4.71	Jul 28	6.45	Jun 18 1995
ANNUAL RUNOFF (AC-FT)	30610		18720		25620	
10 PERCENT EXCEEDS	146		77		110	
50 PERCENT EXCEEDS	13		9.2		8.8	
90 PERCENT EXCEEDS	5.4		5.6		5.2	

e-Estimated.
a-Also occurred Jun 4.
b-Also occurred Jun 22.
c-Also occurred Jan 6.
d-Maximum recorded, but may have been higher during period of no gage-height record Jul 1-7.

09114500 GUNNISON RIVER NEAR GUNNISON, CO

LOCATION.--Lat 38°32'31", long 106°56'57", in NW¼NW¼ 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 mi^2.

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 for 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	663	354	313	e235	e190	226	334	1140	e1900	1460	812	542
2	621	329	306	e240	e210	227	367	1240	2150	1390	792	552
3	749	323	301	e240	e210	228	335	1380	2310	1340	743	517
4	747	337	281	e235	e210	224	344	1490	2200	1310	734	496
5	657	328	296	e230	e210	223	364	1480	1910	1280	722	463
6	e620	330	366	e200	e215	220	377	1400	1630	1290	677	448
7	e700	327	392	e190	e215	215	364	1250	1460	1310	651	449
8	e660	336	384	e205	e220	200	360	1230	1390	1250	622	444
9	e680	346	388	e190	e230	199	361	1160	1320	1260	622	448
10	e720	343	369	e225	e220	199	367	1210	1310	1310	654	446
11	e740	350	e315	e230	e210	206	407	1350	1280	1200	667	444
12	e680	361	e280	e220	e220	207	470	1300	1270	1110	683	454
13	e660	327	e270	e215	e220	208	458	1300	1430	1020	676	474
14	e620	353	e290	e195	e230	210	450	1440	1400	979	674	453
15	e600	313	e290	e205	e220	217	428	1260	1380	922	678	432
16	631	307	e280	e220	e215	230	433	1210	1330	834	657	399
17	555	359	e270	e210	e210	247	429	1270	1330	791	640	397
18	480	353	e270	e205	e210	250	431	1380	1290	784	634	e380
19	428	352	e280	e205	e205	236	422	1500	1240	771	629	e375
20	383	313	e260	e200	208	237	445	1540	1320	766	599	e365
21	368	288	e280	e185	209	245	489	1700	1410	737	588	e340
22	384	292	e260	e190	224	259	586	1820	1520	789	564	e330
23	392	280	e230	e220	225	299	728	1580	1590	848	520	e320
24	418	297	e230	e210	226	354	854	1570	1540	905	500	e300
25	403	290	e230	e210	222	429	944	1490	1440	982	514	288
26	363	299	e210	e200	201	468	842	1560	1450	922	540	e285
27	370	313	e220	e195	194	443	782	1560	1500	866	559	e280
28	377	304	e240	e185	209	406	817	1690	1500	816	555	e275
29	378	303	e250	e190	---	370	882	1910	1490	904	524	285
30	370	291	e240	e200	---	334	1000	e2150	1470	835	518	293
31	372	---	e230	e195	---	349	---	e2100	---	812	511	---
TOTAL	16789	9698	8821	6475	5988	8365	15870	45660	45760	31793	19459	11974
MEAN	542	323	285	209	214	270	529	1473	1525	1026	628	399
MAX	749	361	392	240	230	468	1000	2150	2310	1460	812	552
MIN	363	280	210	185	190	199	334	1140	1240	737	500	275
AC-FT	33300	19240	17500	12840	11880	16590	31480	90570	90760	63060	38600	23750

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1998, BY WATER YEAR (WY)

MEAN	406	300	237	211	204	252	615	1854	2533	1298	746	550
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	317	221
(WY)	1978	1964	1963	1945	1955	1964	1964	1977	1977	1977	1977	1924

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1911 - 1998	
ANNUAL TOTAL	395220		226652			
ANNUAL MEAN	1083		621		769	
HIGHEST ANNUAL MEAN					1278	1995
LOWEST ANNUAL MEAN					256	1977
HIGHEST DAILY MEAN	5310	Jun 9	2310	Jun 3	11400	Jun 11 1918
LOWEST DAILY MEAN	e210	Dec 26	e,a185	Jan 21	80	Dec 27 1962
ANNUAL SEVEN-DAY MINIMUM	230	Dec 23	194	Jan 26	95	Dec 25 1962
INSTANTANEOUS PEAK FLOW			b2490	Jun 3	c11400	Jun 13 1918
INSTANTANEOUS PEAK STAGE			b3.02	Jun 3	d6.74	Jul 1 1957
ANNUAL RUNOFF (AC-FT)	783900		449600		557000	
10 PERCENT EXCEEDS	3260		1400		1920	
50 PERCENT EXCEEDS	620		403		396	
90 PERCENT EXCEEDS	266		210		180	

e-Estimated.
a-Also occurred Jan 28.
b-May have been higher during estimated period May 30 to Jun 1.
c-Site and datum then in use, from rating curve extended above 5000 ft^3/s, gage height, 4.05 ft.
d-Site and datum then in use.

09114500 GUNNISON RIVER NEAR GUNNISON, CO--Continued
WATER-QUALITY RECORDS

PERIOD OF RECORD--April 1995 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV											
20...	1000	307	212	8.5	2.0	0.3	11.8	0.9	K4	100	31
APR											
30...	1320	985	181	8.3	7.5	5.4	9.5	0.5	10	--	--
JUN											
04...	1045	2300	171	8.1	7.5	4.5	8.8	0.5	K100	84	26
AUG											
28...	0830	561	193	8.2	11.0	0.4	8.3	0.6	44	--	--

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
NOV											
20...	6.6	110	90	<0.01	0.07	<0.02	<0.1	<0.1	<0.01	<0.01	<0.01
APR											
30...	--	--	--	<0.01	0.08	0.03	0.2	<0.1	0.01	0.01	0.02
JUN											
04...	4.7	--	--	0.01	0.06	0.05	0.1	0.1	0.02	<0.01	0.01
AUG											
28...	--	--	--	<0.01	<0.05	<0.02	<0.1	<0.1	0.01	0.01	0.01

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, 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)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV							
20...	<5	<1	<1	70	<1	<10	<3
JUN							
04...	<10	<1	<1	480	<1	40	<20

K-Based on non-ideal colony count.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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				
22...	0840	365	220	2.5
NOV				
18...	0940	342	224	0.0
JAN				
22...	1350	190	214	0.0
APR				
28...	1420	794	194	8.5
JUL				
02...	1235	1430	209	13.5
AUG				
11...	0810	635	213	11.0

09114500 GUNNISON RIVER NEAR GUNNISON, CO--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV				
20...	1000	307	2	1.6
APR				
30...	1320	985	18	48
JUN				
04...	1045	2300	18	114
AUG				
28...	0830	561	2	3.0

09115500 TOMICHI CREEK AT SARGENTS, CO

LOCATION.--Lat 38°24'42", long 106°25'20", in SW¼SW¼ sec.21, T.48 N., R.5 E., Saguache County, Hydrologic Unit 14020003, on right bank 300 ft from U.S. Highway 50, 0.5 mi downstream from Marshall Creek, and 0.8 mi south of Sargents.

DRAINAGE AREA.-- 149 mi^2.

PERIOD OF RECORD.--October 1916 to September 1922, October 1937 to September 1972, October 1992 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1313: 1922(M). WRD Colo. 1967: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 8,416 ft above sea level, from topographic map. May 12 to Oct. 5, 1917, nonrecording gage. Oct. 6, 1917 to Sept. 30, 1922, water-stage recorder, at railroad bridge 1,000 ft upstream at different datum. Apr. 18, 1938 to Sept. 9, 1953, water-stage recorder at present site at datum 1.0 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 1,900 acres upstream from station. Larkspur ditch diverts water upstream from station to Arkansas 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	35	e34	e31	e26	e22	e42	105	338	69	54	36
2	33	36	e33	e31	e25	e23	e42	120	347	66	54	36
3	37	38	e33	e31	e27	e25	e41	139	345	62	42	33
4	35	39	e33	e30	e27	e24	e40	165	324	61	47	30
5	33	38	e32	e30	e26	e24	e40	166	277	65	49	27
6	32	39	e29	e29	e25	e24	e41	158	244	65	42	26
7	32	38	e31	e26	e24	e24	e41	144	224	86	39	25
8	35	36	e33	e28	e23	e24	e39	137	209	85	39	26
9	34	32	e33	e27	e24	e24	33	129	193	79	37	25
10	34	33	e33	e30	e23	e24	38	149	180	84	37	26
11	40	32	e32	e32	e24	e24	55	183	171	73	40	26
12	40	33	e30	e32	e23	e25	56	194	160	58	43	33
13	36	36	e27	e31	e22	e27	50	210	155	54	37	40
14	36	37	e24	e29	e22	e29	48	238	148	49	36	34
15	37	37	e26	e28	e22	e33	42	218	147	42	36	33
16	36	e36	e28	e32	e21	e35	41	212	140	42	35	33
17	34	e34	e28	e32	e21	e34	40	217	133	43	34	30
18	34	e35	e26	e31	e22	e32	39	244	123	42	34	28
19	33	e37	e27	e28	e22	e30	39	253	116	43	34	27
20	33	e35	e29	e28	e23	e30	43	283	113	41	34	27
21	32	e35	e28	e27	e23	e33	44	321	115	41	37	28
22	34	e35	e28	e26	e24	e36	56	349	110	41	40	27
23	35	e34	e29	e31	e25	e40	74	318	105	48	36	27
24	35	e33	e29	e30	e26	e44	83	311	101	47	32	27
25	34	e33	e26	e29	e26	e50	98	284	94	67	34	26
26	42	e33	e25	e28	e25	e62	83	272	87	70	32	26
27	48	e33	e25	e27	e24	e58	74	274	83	48	33	26
28	52	e34	e27	e26	e22	e52	78	309	80	45	32	25
29	46	e36	e31	e26	---	e48	82	340	76	50	31	27
30	37	e35	e31	e26	---	e42	92	362	76	44	31	31
31	36	---	e30	e26	---	e43	---	348	---	47	30	---
TOTAL	1127	1057	910	898	667	1045	1614	7152	5014	1757	1171	871
MEAN	36.4	35.2	29.4	29.0	23.8	33.7	53.8	231	167	56.7	37.8	29.0
MAX	52	39	34	32	27	62	98	362	347	86	54	40
MIN	32	32	24	26	21	22	33	105	76	41	30	25
AC-FT	2240	2100	1800	1780	1320	2070	3200	14190	9950	3490	2320	1730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 1998, BY WATER YEAR (WY)

MEAN	31.6	28.1	23.6	21.8	22.3	28.1	68.4	203	205	66.5	39.9	29.5
MAX	48.9	38.1	39.0	43.2	49.6	50.3	139	382	588	255	128	59.5
(WY)	1971	1997	1996	1996	1996	1972	1962	1958	1957	1957	1957	1957
MIN	18.8	17.6	13.3	10.7	10.9	15.0	34.4	50.4	19.8	19.5	13.7	13.5
(WY)	1956	1967	1967	1967	1967	1970	1967	1954	1954	1940	1950	1950

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1917 - 1998	
ANNUAL TOTAL	29874		23283			
ANNUAL MEAN	81.8		63.8		64.1	
HIGHEST ANNUAL MEAN					122	1921
LOWEST ANNUAL MEAN					26.8	1967
HIGHEST DAILY MEAN	a502	Jun 7	362	May 30	838	Jun 18 1995
LOWEST DAILY MEAN	e,b10	Jan 6	e,c21	Feb 16	6.0	Nov 16 1920
ANNUAL SEVEN-DAY MINIMUM	12	Jan 14	22	Feb 13	8.5	Sep 5 1959
INSTANTANEOUS PEAK FLOW			389	May 30	964	Jun 18 1995
INSTANTANEOUS PEAK STAGE			2.48	May 30	d4.03	Jun 18 1995
ANNUAL RUNOFF (AC-FT)	59260		46180		46420	
10 PERCENT EXCEEDS	260		156		157	
50 PERCENT EXCEEDS	38		35		30	
90 PERCENT EXCEEDS	13		25		18	

e-Estimated.
a-Also occurred Jun 8.
b-Also occurred Jan 7.
c-Also occurred Feb 17.
d-Maximum gage height for period of record, 4.05 ft, Jun 16, 1917, and Jun 9, 1921, site and datum then in use.

09118450 COCHETOPA CREEK BELOW ROCK CREEK, NEAR PARLIN, CO

LOCATION.--Lat 38°20'08", long 106°46'18", in SW¼NE¼ 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 southeast of Parlin.

DRAINAGE AREA.--334 mi^2.

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, 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	55	e37	e27	e21	e18	42	95	65	30	94	55
2	71	47	e37	e27	e21	e22	43	95	68	29	89	66
3	74	47	e37	e28	e24	e22	43	103	75	30	80	58
4	70	50	e34	e28	e23	e22	51	126	78	31	71	52
5	65	49	e35	e28	e23	e21	54	124	77	35	73	49
6	61	46	e37	e26	e22	e21	51	119	72	38	71	47
7	60	46	e38	e21	e22	e21	40	105	67	43	63	46
8	64	46	e38	e23	e22	e21	38	97	64	53	59	45
9	61	47	e37	e22	e24	e21	38	87	62	57	59	45
10	60	43	e35	e25	e23	e21	42	89	57	55	61	43
11	75	47	e33	e26	e21	e22	56	110	47	47	63	43
12	81	47	e27	e26	e23	e24	67	107	49	40	63	47
13	64	e43	e27	e25	e21	e26	46	115	47	33	58	50
14	64	44	e29	e24	e24	e28	44	127	46	30	56	43
15	66	36	e30	e23	e23	31	40	115	49	28	53	41
16	63	e37	e29	e26	e23	34	38	114	45	26	50	41
17	58	e41	e29	e25	e23	35	35	114	41	25	50	40
18	56	e41	e31	e24	e23	35	37	118	38	26	64	40
19	55	e40	e32	e24	e23	30	35	103	36	26	65	37
20	54	e40	e29	e24	e22	e29	39	100	28	26	63	36
21	54	e39	e29	e22	e23	e31	42	99	33	26	64	35
22	52	e37	e31	e21	e23	e34	52	97	38	28	70	34
23	52	e37	e27	e26	e24	e45	64	91	38	34	59	34
24	55	e37	e27	e24	e24	e68	81	87	39	42	57	32
25	54	e37	e27	e25	e25	e90	97	86	35	44	55	31
26	50	e37	e26	e24	e22	e100	73	82	30	48	60	29
27	51	e44	e25	e24	e21	e80	58	76	29	45	70	29
28	57	e41	e27	e23	e19	e72	59	66	29	78	62	29
29	58	e38	e29	e21	---	e55	58	59	29	76	55	32
30	60	e37	e29	e22	---	45	74	65	29	66	52	38
31	58	---	e27	e22	---	48	---	65	---	74	50	---
TOTAL	1893	1276	965	756	632	1172	1537	3036	1440	1269	1959	1247
MEAN	61.1	42.5	31.1	24.4	22.6	37.8	51.2	97.9	48.0	40.9	63.2	41.6
MAX	81	55	38	28	25	100	97	127	78	78	94	66
MIN	50	36	25	21	19	18	35	59	28	25	50	29
AC-FT	3750	2530	1910	1500	1250	2320	3050	6020	2860	2520	3890	2470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1998, BY WATER YEAR (WY)

MEAN	36.9	31.0	23.4	20.3	20.9	32.2	55.1	87.5	93.0	54.8	63.3	45.2
MAX	72.6	49.9	39.5	36.6	33.4	52.3	135	413	240	130	144	90.8
(WY)	1983	1983	1985	1984	1986	1985	1987	1984	1984	1995	1984	1982
MIN	17.7	15.0	10.3	11.1	10.5	12.5	27.9	18.4	21.5	20.4	16.0	14.7
(WY)	1990	1993	1982	1982	1982	1982	1990	1989	1989	1996	1996	1996

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1981 - 1998	
ANNUAL TOTAL	18791		17182			
ANNUAL MEAN	51.5		47.1		47.2	
HIGHEST ANNUAL MEAN					106	1984
LOWEST ANNUAL MEAN					24.8	1994
HIGHEST DAILY MEAN	231	Jun 9	127	May 14	954	May 23 1984
LOWEST DAILY MEAN	e11	Jan 7	e18	Mar 1	8.4	Feb 7 1982
ANNUAL SEVEN-DAY MINIMUM	12	Jan 16	21	Feb 27	8.9	Feb 7 1982
INSTANTANEOUS PEAK FLOW			160	May 4	1120	May 23 1984
INSTANTANEOUS PEAK STAGE			a2.86	May 4	a4.49	May 23 1984
ANNUAL RUNOFF (AC-FT)	37270		34080		34200	
10 PERCENT EXCEEDS	87		78		90	
50 PERCENT EXCEEDS	47		41		34	
90 PERCENT EXCEEDS	14		23		16	

e-Estimated.
a-Maximum gage height, 5.64 ft, Mar 25, 1998, backwater from ice.

09119000 TOMICHI CREEK AT GUNNISON, CO

LOCATION.--Lat 38°31'18", long 106°56'25", in NE¼SW¼ 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 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	184	e125	e105	e94	e86	e160	226	522	100	276	109
2	152	160	e125	e106	e94	e88	e160	257	499	95	289	127
3	160	146	e120	e108	e102	e88	e150	286	520	88	262	134
4	160	160	e118	e110	e100	e86	e140	312	512	87	234	119
5	149	165	e110	e106	e100	e84	e138	359	514	91	234	105
6	144	162	e120	e102	e99	e82	e136	358	475	78	228	92
7	135	159	e125	e94	e99	e82	139	323	430	104	204	87
8	138	160	e128	e111	e100	e86	141	299	396	160	180	86
9	148	161	e126	e105	e104	e94	135	270	363	216	168	86
10	143	162	e120	e113	e100	e105	135	251	342	246	182	88
11	145	164	e110	e111	e96	e105	151	265	327	251	197	90
12	169	171	e105	e109	e100	e112	197	297	303	180	192	80
13	162	171	e104	e104	e100	e125	193	304	298	145	181	79
14	147	156	e115	e100	e104	e130	176	336	289	120	167	76
15	151	142	e115	e105	e100	e130	172	389	298	109	162	70
16	154	81	e115	e112	e99	e133	164	375	290	97	151	66
17	150	118	e115	e105	e98	e128	163	353	285	79	140	67
18	145	143	e120	e100	e96	e118	163	356	273	69	137	66
19	139	145	e120	e100	e92	e110	163	400	261	67	160	63
20	139	e139	e121	e100	e94	e110	156	416	231	66	152	60
21	135	e130	e111	e96	e96	e118	161	462	218	66	149	58
22	134	e125	e121	e99	e96	e135	167	472	221	102	164	57
23	132	e125	e110	e112	e99	e165	194	399	195	160	164	54
24	143	e123	e100	e110	e100	e200	248	400	175	181	147	54
25	149	e122	e100	e105	e100	e235	280	425	165	193	143	51
26	126	e125	e98	e105	e96	e255	289	430	154	204	142	41
27	134	e143	e96	e105	e88	e260	248	401	145	236	144	41
28	161	e140	e110	e98	e80	e245	223	397	130	249	151	40
29	171	e130	e112	e99	---	e230	213	417	120	276	133	30
30	184	e125	e111	e100	---	e180	203	469	113	254	117	40
31	188	---	e105	e98	---	e160	---	492	---	255	108	---
TOTAL	4641	4337	3531	3233	2726	4265	5358	11196	9064	4624	5458	2216
MEAN	150	145	114	104	97.4	138	179	361	302	149	176	73.9
MAX	188	184	128	113	104	260	289	492	522	276	289	134
MIN	126	81	96	94	80	82	135	226	113	66	108	30
AC-FT	9210	8600	7000	6410	5410	8460	10630	22210	17980	9170	10830	4400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1998, BY WATER YEAR (WY)

MEAN	94.6	102	77.5	67.2	69.8	112	245	406	485	198	160	92.4
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	36.3	59.8	56.5	22.4	51.8	42.5	51.5	19.2
(WY)	1964	1951	1964	1979	1979	1981	1967	1977	1977	1955	1977	1956

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1938 - 1998	
ANNUAL TOTAL	92666		60649			
ANNUAL MEAN	254		166		176	
HIGHEST ANNUAL MEAN					478	1984
LOWEST ANNUAL MEAN					60.4	1977
HIGHEST DAILY MEAN	1560	Jun 9	522	Jun 1	4040	May 26 1984
LOWEST DAILY MEAN	e68	Jan 17	30	Sep 29	2.6	Sep 30 1977
ANNUAL SEVEN-DAY MINIMUM	75	Jan 15	42	Sep 24	7.6	May 4 1967
INSTANTANEOUS PEAK FLOW			592	Jun 1	4620	May 23 1984
INSTANTANEOUS PEAK STAGE			2.98	Jun 1	5.49	May 23 1984
ANNUAL RUNOFF (AC-FT)	183800		120300		127500	
10 PERCENT EXCEEDS	656		298		392	
50 PERCENT EXCEEDS	162		136		100	
90 PERCENT EXCEEDS	78		87		54	

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV											
20...	0830	139	236	8.2	0.5	2.0	12.1	1.0	14	110	31
APR											
30...	1120	200	227	8.3	9.5	9.3	9.0	0.4	27	--	--
JUN											
04...	0840	511	220	7.9	11.5	4.4	7.3	0.7	K110	100	29
AUG											
27...	1515	145	246	8.7	20.0	1.5	8.2	1.4	58	--	--

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
NOV											
20...	8.1	126	103	<0.01	<0.05	<0.02	0.1	<0.1	0.02	<0.01	<0.01
APR											
30...	--	--	--	<0.01	<0.05	0.02	0.3	0.2	0.04	0.02	0.04
JUN											
04...	7.7	--	--	<0.01	<0.05	0.05	0.4	0.4	0.05	0.02	0.03
AUG											
27...	--	--	--	<0.01	<0.05	<0.02	0.2	0.2	0.03	0.04	0.04

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, 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)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV							
20...	<5	<1	<1	440	<1	41	<3
JUN							
04...	62	<1	1	750	<1	65	<20

K-Based on non-ideal colony count.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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				
22...	1020	139	251	4.0
APR				
07...	1555	156	248	5.5
JUL				
02...	1100	95	359	18.5
AUG				
11...	1005	198	276	15.0

09119000 TOMICHI CREEK AT GUNNISON, CO--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV				
20...	0830	139	8	3.1
APR				
30...	1120	200	40	21
JUN				
04...	0840	511	24	33
AUG				
27...	1515	145	5	2.0

383103106594200 GUNNISON RIVER AT COUNTY ROAD 32 BELOW GUNNISON, CO

(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

LOCATION.--Lat 38°31'03", long 106°59'42", in SW¼SE¼ 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 mi^2.

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1996 to September 1998 (discontinued).

INSTRUMENTATION.--Water temperature sensor and logger October 1996 to September 1998 (discontinued).

REMARKS.--Upper Colorado River Basin National Water Quality Assessment Program station (NAWQA). Daily water temperature data are good. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 19.5°C, July 18, 1998; minimum, 0.0°C on many days during winters.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 19.5°C, July 18; minimum, 0.0°C on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	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)
NOV												
19...	1400	495	229	8.5	2.5	1.5	11.5	1.2	<1	110	33	7.5
DEC												
17...	1300	309	226	8.5	0.0	--	12.5	--	--	110	31	7.2
JAN												
22...	1230	297	226	8.0	0.0	--	11.1	--	--	110	31	7.2
FEB												
20...	1030	310	227	8.1	0.0	--	11.2	--	--	110	32	7.5
MAR												
16...	1605	431	218	8.5	5.5	--	9.2	--	--	100	29	7.0
APR												
30...	1200	1100	195	8.0	7.5	4.6	9.2	0.6	K8	85	25	5.5
MAY												
22...	1200	2240	171	8.1	8.5	--	8.7	--	--	82	24	5.3
29...	1000	2220	188	8.0	8.5	--	8.8	2.5	150	85	25	5.4
JUN												
01...	1720	2250	191	8.3	14.5	2.5	7.5	--	--	93	28	5.8
24...	1230	1800	221	8.2	12.0	--	8.2	--	--	110	32	6.4
JUL												
20...	2020	814	241	8.2	17.5	--	7.0	--	--	120	35	7.2
AUG												
27...	0740	680	214	8.2	14.0	1.1	7.6	1.0	44	100	30	6.5
SEP												
09...	1340	538	205	8.6	16.0	--	8.4	--	--	96	29	6.1

k-based on non-ideal colony count.

383103106594200 GUNNISON RIVER AT COUNTY ROAD 32 BELOW GUNNISON, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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)	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, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
NOV												
19...	4.6	0.2	1.3	116	--	95	17	1.2	0.3	12	140	134
DEC												
17...	4.9	0.2	1.3	124	--	102	17	1.5	0.2	12	149	137
JAN												
22...	5.5	0.2	1.2	127	--	104	17	1.4	0.4	13	147	139
FEB												
20...	5.7	0.2	1.2	123	--	101	16	1.5	0.3	13	144	139
MAR												
16...	5.5	0.2	2.0	107	4	94	16	1.9	0.3	12	139	130
APR												
30...	4.8	0.2	1.2	93	--	76	16	1.6	0.2	10	123	111
MAY												
22...	3.2	0.2	0.9	[a]--	--	--	13	0.8	0.1	10	112	104
29...	3.2	0.2	1.1	95	--	78	13	1.0	0.2	10	123	107
JUN												
01...	3.1	0.1	1.2	101	--	83	13	0.9	0.2	11	120	113
24...	3.3	0.1	1.0	120	--	98	12	0.9	0.2	9.4	140	125
JUL												
20...	4.1	0.2	1.1	153	--	125	12	0.8	0.2	10	147	146
AUG												
27...	4.1	0.2	1.1	118	--	97	12	0.9	0.2	11	135	124
SEP												
09...	4.0	0.2	1.1	109	2	93	12	0.9	0.2	10	127	119

DATE	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)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)
NOV												
19...	0.19	187	<0.01	0.10	<0.02	<0.1	<0.1	<0.01	<0.01	0.02	1.3	1.7
DEC												
17...	0.20	124	<0.01	0.08	<0.02	0.1	<0.1	0.02	<0.01	0.02	1.3	0.2
JAN												
22...	0.20	118	<0.01	0.09	<0.02	<0.1	<0.1	0.01	<0.01	0.01	1.3	0.7
FEB												
20...	0.20	122	<0.01	0.14	<0.02	<0.1	<0.1	0.02	0.01	0.03	1.3	0.4
MAR												
16...	0.19	162	<0.01	0.11	0.02	0.3	0.2	0.04	0.02	0.03	2.5	0.8
APR												
30...	0.17	377	<0.01	<0.05	0.04	0.2	0.1	0.05	<0.01	0.02	2.7	0.6
MAY												
22...	0.15	677	0.01	0.06	0.07	0.4	0.2	0.07	<0.01	0.01	3.4	1.2
29...	0.17	736	0.02	0.10	<0.02	0.4	0.1	0.06	0.04	0.01	3.3	1.0
JUN												
01...	0.16	729	0.02	0.08	0.05	0.3	0.2	0.07	<0.01	0.01	3.4	0.4
24...	0.19	679	<0.01	0.08	<0.02	0.2	<0.1	0.03	<0.01	<0.01	2.4	0.3
JUL												
20...	0.20	323	<0.01	<0.05	<0.02	0.2	0.1	0.02	<0.01	0.01	2.3	0.3
AUG												
27...	0.18	248	<0.01	0.07	<0.02	0.1	0.1	0.01	0.01	0.01	1.8	0.4
SEP												
09...	0.17	184	<0.01	<0.05	0.03	0.1	0.1	0.02	<0.01	0.02	1.6	0.2

a-Field alkalinity value deleted; laboratory acid neutralizing capacity value for this sample, 76 mg/l.

383103106594200 GUNNISON RIVER AT COUNTY ROAD 32 BELOW GUNNISON, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	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)	MANGANESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV											
19...	6	--	<1	<1	200	32	<1	20	14	--	<3
DEC											
17...	--	--	--	--	--	20	--	--	15	--	--
JAN											
22...	--	--	--	--	--	<10	--	--	14	--	--
FEB											
20...	--	--	--	--	--	14	--	--	16	--	--
MAR											
16...	--	1	--	--	--	25	--	--	27	<1	--
APR											
30...	<10	--	<1	1	730	43	<1	60	13	--	<20
MAY											
22...	--	--	--	--	--	28	--	--	15	--	--
29...	--	--	--	--	--	33	--	--	15	--	--
JUN											
01...	11	--	<1	2	510	33	<1	50	16	--	<20
24...	--	--	--	--	--	27	--	--	15	--	--
JUL											
20...	--	--	--	--	--	46	--	--	14	--	--
AUG											
27...	<10	--	<1	<1	200	16	<1	30	10	--	<20
SEP											
09...	--	--	--	--	--	27	--	--	11	--	--

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDIMENT, SUSPENDED (MG/L) (80154) [b]	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
NOV				
19...	1400	495	3	4.0
DEC				
17...	1300	309	3	2.5
JAN				
22...	1230	297	3	2.6
FEB				
20...	1030	313	3	2.9
MAR				
16...	1605	431	5	5.8
APR				
30...	1200	1140	25	76
MAY				
22...	1200	2240	55	331
29...	1000	2220	62	372
JUN				
01...	1720	2250	27	164
24...	1230	1800	8	38
JUL				
20...	2020	814	5	11
AUG				
27...	0740	680	4	7.3
SEP				
09...	1340	538	3	4.4

b-Suspended-sediment concentration determined from a subsample split of a composite sample.

383103106594200 GUNNISON RIVER AT COUNTY ROAD 32 BELOW GUNNISON, CO--Continued
(National Water-Quality Assessment Program station)

TEMPERATURE WATER, (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	13.6	9.6	11.6	5.3	2.3	3.7	---	---	---	---	---	---
2	13.5	10.4	11.9	4.3	.8	2.6	---	---	---	---	---	---
3	13.0	10.5	11.8	4.2	.4	2.4	---	---	---	---	---	---
4	12.4	8.5	10.5	4.6	.7	2.8	---	---	---	---	---	---
5	12.4	8.1	10.2	4.6	1.2	2.9	---	---	---	---	---	---
6	12.4	8.2	10.3	4.9	1.0	3.0	---	---	---	---	---	---
7	10.9	8.8	9.8	4.9	1.2	3.1	---	---	---	---	---	---
8	9.6	7.6	8.7	4.3	1.3	3.0	---	---	---	---	---	---
9	9.9	5.4	7.6	4.9	2.6	3.7	---	---	---	---	---	---
10	10.2	6.7	8.4	4.0	2.4	3.2	---	---	---	---	---	---
11	11.8	8.7	9.9	4.6	2.4	3.5	---	---	---	---	---	---
12	9.5	5.8	7.4	4.8	1.8	3.3	---	---	---	---	---	---
13	7.6	3.8	5.7	3.5	1.3	1.9	---	---	---	---	---	---
14	8.4	4.2	6.2	2.3	.2	1.0	---	---	---	---	---	---
15	8.7	4.8	6.8	---	---	---	---	---	---	---	---	---
16	9.0	5.1	7.0	---	---	---	---	---	---	---	---	---
17	9.0	5.1	7.1	---	---	---	---	---	---	---	---	---
18	9.1	5.1	7.2	---	---	---	---	---	---	---	---	---
19	9.0	4.9	7.0	---	---	---	---	---	---	---	---	---
20	8.8	5.3	7.1	---	---	---	---	---	---	---	---	---
21	7.9	4.6	6.5	---	---	---	---	---	---	---	---	---
22	8.2	4.0	6.0	---	---	---	---	---	---	---	---	---
23	6.5	3.4	5.2	---	---	---	---	---	---	---	---	---
24	5.4	2.8	4.0	---	---	---	---	---	---	---	---	---
25	3.5	1.5	2.4	---	---	---	---	---	---	---	---	---
26	3.7	.5	1.9	---	---	---	---	---	---	---	---	---
27	3.4	.0	1.5	---	---	---	---	---	---	---	---	---
28	4.0	.0	2.0	---	---	---	---	---	---	---	---	---
29	4.8	.8	2.8	---	---	---	---	---	---	.2	.0	.1
30	6.3	2.4	4.3	---	---	---	---	---	---	.5	.0	.1
31	5.7	3.1	4.5	---	---	---	---	---	---	.5	.0	.1
MONTH	13.6	.0	6.9	---	---	---	---	---	---	---	---	---

		FEBRUARY			MARCH			APRIL			MAY	
1	.5	.0	.1	.2	.0	.1	7.6	.9	4.1	9.8	5.6	7.9
2	.0	.0	.0	.5	.0	.1	5.6	2.6	3.7	9.9	5.6	7.9
3	.5	.0	.1	2.0	.0	.7	7.1	1.3	4.1	10.9	5.6	8.4
4	.5	.0	.1	3.5	.0	1.4	8.8	2.9	5.9	9.9	5.1	7.9
5	1.0	.0	.2	3.2	.0	1.5	9.1	3.5	6.4	9.0	5.1	7.4
6	.9	.0	.2	2.9	.5	1.6	7.8	4.4	6.1	8.7	6.0	7.4
7	1.2	.0	.3	1.6	.0	.9	5.7	2.1	4.0	8.4	4.6	6.7
8	.4	.0	.1	1.8	.0	.5	7.4	2.9	4.7	8.7	4.9	6.9
9	1.5	.0	.3	1.3	.0	.4	8.1	2.4	5.0	10.1	5.4	7.8
10	1.2	.0	.3	2.6	.0	.8	10.1	2.6	6.1	12.1	6.2	9.0
11	.0	.0	.0	3.1	.0	1.1	10.5	4.2	7.3	11.5	6.8	9.2
12	.7	.0	.2	4.0	.0	1.4	9.1	4.6	6.8	10.7	5.9	8.5
13	.5	.0	.1	4.5	.0	1.8	8.1	3.9	5.9	11.8	6.5	9.2
14	1.2	.0	.3	4.9	.2	2.4	8.1	4.2	5.9	10.4	7.4	9.1
15	1.2	.0	.3	5.9	1.0	3.2	8.1	3.5	5.2	11.2	4.9	8.1
16	1.8	.0	.5	6.0	1.5	3.6	6.5	2.8	4.2	10.7	6.2	8.7
17	2.0	.0	.6	5.4	1.3	3.1	7.0	1.6	4.3	12.1	6.0	9.1
18	1.5	.0	.4	2.5	.9	1.6	9.3	3.2	5.6	10.2	7.0	9.0
19	1.6	.0	.4	3.9	.0	1.4	8.8	2.8	5.8	11.2	7.0	9.2
20	1.0	.0	.2	4.8	.0	1.9	10.2	4.0	7.1	10.9	7.4	9.4
21	1.2	.0	.3	5.3	.2	2.5	11.5	4.5	7.8	11.8	7.8	9.7
22	2.0	.0	.6	6.0	1.2	3.4	11.9	4.9	8.4	11.2	6.5	8.9
23	2.1	.0	.8	7.4	1.8	4.0	11.8	5.6	8.7	11.8	6.2	9.2
24	2.4	.0	1.0	6.8	1.8	3.9	10.4	6.2	8.5	10.7	7.4	9.2
25	2.3	.0	.8	6.0	1.6	3.6	8.7	5.7	7.3	13.2	6.2	9.5
26	.5	.0	.1	4.6	1.6	3.5	6.8	4.2	5.4	11.5	7.9	9.9
27	.0	.0	.0	5.9	1.8	3.8	10.1	3.1	6.2	13.6	6.8	10.2
28	.0	.0	.0	4.5	2.4	3.6	10.2	5.1	7.6	14.1	8.1	11.2
29	---	---	---	3.6	1.8	2.8	11.2	5.3	8.1	13.6	8.1	11.0
30	---	---	---	5.9	.0	2.5	11.0	5.4	8.3	12.6	8.7	10.8
31	---	---	---	5.1	.5	2.7	---	---	---	12.7	7.6	10.3
MONTH	2.4	.0	.3	7.4	.0	2.1	11.9	.9	6.2	14.1	4.6	8.9

383103106594200 GUNNISON RIVER AT COUNTY ROAD 32 BELOW GUNNISON, CO--Continued
(National Water-Quality Assessment Program station)

TEMPERATURE WATER, (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.3	8.2	11.3	16.8	11.3	14.1	16.5	13.5	14.8	16.0	12.7	14.1
2	14.1	8.4	11.4	16.6	11.9	14.5	17.1	11.8	14.4	17.7	12.4	14.8
3	12.7	8.4	10.9	15.5	12.2	14.1	16.8	12.1	14.5	18.4	12.7	15.4
4	11.3	7.9	9.8	16.1	12.1	13.9	17.3	12.2	14.5	17.9	12.7	15.1
5	11.3	7.4	9.4	16.1	11.8	14.1	18.1	11.9	14.8	18.5	12.7	15.5
6	11.9	6.8	9.5	16.0	12.7	14.2	18.5	12.7	15.6	18.4	12.7	15.5
7	12.2	8.5	10.5	14.4	12.1	13.0	18.1	12.9	15.7	18.7	13.2	15.8
8	13.5	7.9	10.6	17.6	11.8	14.3	17.7	12.7	15.4	17.3	12.6	14.9
9	14.1	8.4	11.3	15.8	13.2	14.4	17.9	13.5	15.6	---	---	---
10	12.9	8.4	10.7	16.1	12.9	14.4	15.7	13.2	14.1	---	---	---
11	12.6	8.1	10.4	17.4	12.1	14.8	16.9	12.1	14.2	---	---	---
12	15.2	8.2	11.5	18.4	12.1	15.1	18.2	11.9	14.9	---	---	---
13	13.1	10.2	11.6	17.1	12.2	14.9	17.3	13.0	15.2	---	---	---
14	12.1	9.3	10.7	18.4	12.6	15.3	16.1	12.1	14.2	---	---	---
15	14.3	7.8	10.9	19.2	12.1	15.6	16.8	11.2	14.0	---	---	---
16	13.5	9.8	11.8	19.0	12.9	15.9	16.5	12.4	14.5	---	---	---
17	13.3	9.4	11.3	19.4	12.9	16.1	16.8	12.9	14.9	---	---	---
18	14.7	8.7	11.5	19.5	13.2	16.4	17.1	13.3	15.2	---	---	---
19	15.5	9.1	12.3	17.4	13.3	15.5	16.9	12.7	15.0	---	---	---
20	14.9	9.4	12.2	18.7	12.2	15.1	17.6	12.7	15.3	---	---	---
21	14.9	9.6	12.4	16.9	12.6	14.9	16.6	13.9	15.2	---	---	---
22	16.0	9.8	12.9	16.8	12.9	15.0	18.7	13.2	15.9	---	---	---
23	15.2	9.8	12.7	18.2	13.3	15.5	19.0	13.3	16.2	---	---	---
24	14.6	9.6	12.3	17.6	13.9	15.7	16.9	14.1	15.5	---	---	---
25	15.8	9.1	12.5	17.6	13.8	15.6	15.8	12.7	14.4	---	---	---
26	15.8	9.6	12.9	18.2	13.6	15.6	18.1	13.2	15.6	---	---	---
27	16.3	10.2	13.3	19.2	13.3	16.1	17.4	13.8	15.6	---	---	---
28	16.6	10.5	13.7	17.7	14.7	16.2	18.1	11.9	14.9	---	---	---
29	17.1	10.9	14.1	17.9	13.8	15.8	18.5	12.9	15.7	---	---	---
30	16.8	11.3	14.2	17.9	13.2	15.6	18.5	12.9	15.6	---	---	---
31	---	---	---	16.6	13.3	15.0	16.1	13.0	14.6	---	---	---
MONTH	17.1	6.8	11.7	19.5	11.3	15.1	19.0	11.2	15.0	---	---	---

09124500 LAKE FORK AT GATEVIEW, CO

LOCATION.--Lat 38°17'56", long 107°13'46", in SE¼NE¼ sec.29, T.47 N., R.3 W., Gunnison County, Hydrologic Unit 14020002, on left bank at old village of Gateview, 25 ft downstream from private bridge, 0.2 mi upstream from Indian Creek, and 6.3 mi upstream from waterline of Blue Mesa Reservoir, at elevation 7,519 ft.

DRAINAGE AREA.--334 mi^2.

PERIOD OF RECORD.--October 1937 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,827.66 ft above sea level. Prior to Oct. 1, 1938, at datum 2.00 ft higher, Oct. 1, 1938 to Sept. 30, 1945, at datum 1.00 ft, higher, and Oct. 1, 1945 to Sept. 3, 1991, at datum 1.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 1,600 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	230	117	e50	e58	e45	e48	e40	159	906	840	307	166
2	220	109	e49	e54	e47	e48	e43	179	1060	822	293	194
3	221	109	e48	e51	e47	e50	e46	220	1140	774	269	192
4	215	112	e48	e48	e47	e50	e48	279	1000	820	253	187
5	200	106	e46	e50	e45	e48	e52	310	749	768	263	176
6	190	103	e46	e52	e44	e48	53	310	614	740	242	169
7	178	101	e46	e54	e46	e49	50	280	585	710	228	165
8	180	98	e47	e52	e48	e50	49	252	555	752	217	157
9	171	100	e47	e53	e46	e49	49	225	572	726	208	153
10	172	102	e47	e54	e46	e48	48	230	583	663	201	148
11	184	100	e46	e52	e45	e47	53	264	525	641	205	143
12	186	98	e42	e51	e44	e46	60	282	502	594	200	147
13	180	97	e41	e54	e45	e44	59	287	657	522	189	149
14	184	95	e42	e50	e51	e43	58	306	610	360	190	144
15	187	83	e45	e48	e53	e44	56	278	563	381	188	141
16	183	74	e54	e46	e54	e44	55	261	575	381	181	138
17	178	75	e56	e45	e56	e45	54	271	646	374	179	133
18	175	e70	e55	e46	e58	e47	55	323	545	358	189	130
19	171	e68	e60	e48	e58	e48	50	390	578	343	177	126
20	167	e66	e56	e51	e52	e47	53	454	759	319	170	123
21	158	e64	e55	e50	e51	e44	54	528	847	309	171	118
22	151	e66	e55	e48	e50	e41	58	596	926	300	171	115
23	146	e62	e56	e48	e49	e36	74	528	943	301	162	111
24	148	e60	e54	e49	e50	e39	102	528	902	309	159	107
25	138	e61	e53	e50	e52	e39	112	471	823	371	166	101
26	127	e60	e52	e50	e50	e39	106	522	824	383	183	94
27	131	e59	e51	e49	e49	e38	115	585	890	387	182	81
28	130	e58	e55	e46	e49	e38	174	715	929	386	173	77
29	125	e56	e58	e44	---	e38	134	878	930	394	164	78
30	121	e52	e59	e44	---	e37	135	916	904	358	157	84
31	119	---	e60	e43	---	e38	---	863	---	334	154	---
TOTAL	5266	2481	1579	1538	1377	1370	2095	12690	22642	15720	6191	4047
MEAN	170	82.7	50.9	49.6	49.2	44.2	69.8	409	755	507	200	135
MAX	230	117	60	58	58	50	174	916	1140	840	307	194
MIN	119	52	41	43	44	36	40	159	502	300	154	77
AC-FT	10450	4920	3130	3050	2730	2720	4160	25170	44910	31180	12280	8030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1998, BY WATER YEAR (WY)

MEAN	95.2	68.5	52.2	46.2	43.8	56.2	132	535	989	488	206	130
MAX	242	143	75.7	66.5	71.0	102	340	1153	1586	1266	479	430
(WY)	1942	1942	1984	1984	1986	1939	1952	1984	1944	1957	1982	1970
MIN	40.3	42.7	34.6	32.5	30.4	30.5	53.3	205	263	107	82.5	45.5
(WY)	1957	1940	1940	1977	1990	1977	1990	1977	1977	1977	1956	1956

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1938 - 1998	
ANNUAL TOTAL	115322		76996			
ANNUAL MEAN	316		211		237	
HIGHEST ANNUAL MEAN					413	1984
LOWEST ANNUAL MEAN					88.7	1977
HIGHEST DAILY MEAN	1910	Jun 5	1140	Jun 3	2410	Jun 29 1957
LOWEST DAILY MEAN	e,a40	Jan 16	e36	Mar 23	22	Jan 21 1976
ANNUAL SEVEN-DAY MINIMUM	44	Dec 9	38	Mar 23	23	Jan 19 1976
INSTANTANEOUS PEAK FLOW			1240	Jun 3	2720	Jul 10 1983
INSTANTANEOUS PEAK STAGE			3.64	Jun 3	b4.18	Jul 10 1983
ANNUAL RUNOFF (AC-FT)	228700		152700		171900	
10 PERCENT EXCEEDS	1000		595		690	
50 PERCENT EXCEEDS	158		112		86	
90 PERCENT EXCEEDS	49		46		41	

e-Estimated.
a-Also occured Jan 17 and Feb 8.
b-At datum then in use. Maximum gage height, 4.77 ft, Jun 16, 1995, at present datum.

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 mi^2.

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 contents, 1,840 acre-ft, Sept. 30, 1994, elevation, 8,864.91 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 13,350 acre-ft, June 3, elevation, 8,926.76 ft; minimum contents, 2,470 acre-ft, Sept. 30, elevation, 8,871.10 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	8,902.45	7,320	-
Oct. 31	8,905.34	7,920	+600
Nov. 30	8,906.02	8,060	+140
Dec. 31	8,908.85	8,690	+630
CAL YR 1997	-	-	+3,180
Jan. 31	8,910.54	9,080	+390
Feb. 28	8,911.49	9,300	+220
Mar. 31	8,913.41	9,750	+450
Apr. 30	8,918.42	11,010	+1,260
May 31	8,926.39	13,240	+2,230
June 30	8,925.96	13,100	-140
July 31	8,920.98	11,700	-1,400
Aug. 31	8,898.99	6,640	-5,060
Sept. 30	8,871.10	2,470	-4,170
WTR YR 1998	-	-	-4,850

09126000 CIMARRON RIVER NEAR CIMARRON, CO

LOCATION.--Lat 38°15'26", long 107°32'46", in NW¼NE¼ sec.8, T.46 N., R.6 W., Gunnison County, Hydrologic Unit 14020002, on right bank 0.2 mi upstream from Forest Service bridge, 0.8 mi upstream from headgate on Cimarron ditch, 1.9 mi downstream from Silver Jack Dam, and 13 mi south of Cimarron.

DRAINAGE AREA.--66.6 mi^2.

PERIOD OF RECORD.--October 1954 to current year. Prior to October 1965, published as Cimarron Creek near Cimarron. Statistical summary computed for 1971 to current year.

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,641.48 ft above sea level. Oct. 14, 1954 to Oct. 11, 1972 at site 0.4 mi downstream at different datum. Oct. 12, 1972 to Sept. 30, 1996 at site 0.2 mi downstream at datum 10.00 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversion upstream from station through Owl Creek ditch into Uncompahgre River basin. Flow regulated by Silver Jack Dam, 1.9 mi upstream since Dec. 23, 1970, total capacity, 13,520 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	37	e13	e12	e14	e14	e18	29	566	378	166	123
2	40	37	e13	e11	e14	e15	18	32	638	367	169	122
3	47	38	e13	e12	e13	e15	18	36	661	349	162	119
4	42	37	e13	e14	e12	e15	18	35	558	339	154	119
5	42	37	e13	e14	e13	e15	19	32	448	316	147	119
6	43	36	e13	e14	e13	e15	19	30	372	298	146	119
7	43	36	15	e14	e14	e15	19	32	347	277	144	119
8	43	36	15	e14	e16	e15	18	30	338	265	142	119
9	39	38	15	e12	e16	e16	18	30	334	242	142	119
10	40	40	16	e12	e15	e16	18	74	346	246	142	119
11	39	41	16	e12	e15	e15	20	152	316	230	142	120
12	40	41	e13	e13	e14	e14	20	162	303	213	143	121
13	41	37	e12	e12	e15	e16	20	190	362	193	143	119
14	39	35	e13	e12	e16	e15	20	226	328	175	143	121
15	41	35	e14	e12	e15	e16	19	196	310	167	142	128
16	40	37	e15	e13	e14	e15	19	197	346	165	142	128
17	41	38	e14	e13	e15	e15	19	232	357	164	136	135
18	39	38	e14	e12	e14	e16	18	290	308	158	126	132
19	38	39	e14	e12	e14	e16	21	332	347	151	126	130
20	38	29	e14	e13	e17	e16	19	369	417	143	127	130
21	36	17	e13	e12	e15	18	20	447	430	135	125	116
22	36	22	e14	e12	e16	18	21	429	449	133	125	104
23	36	39	e14	e12	e16	19	24	348	456	134	123	105
24	37	20	e14	e12	e15	20	27	335	435	134	125	101
25	36	15	e14	e12	e15	21	26	300	411	135	125	104
26	36	15	e16	e13	e15	21	22	336	420	137	126	103
27	37	14	e15	e14	e15	21	21	376	461	149	126	107
28	37	14	e14	e13	e15	20	23	472	440	169	123	78
29	37	e14	e14	e13	---	19	26	571	437	166	124	49
30	37	e14	e14	e14	---	e17	29	578	406	163	123	42
31	37	---	e14	e14	---	18	---	534	---	166	120	---
TOTAL	1217	926	434	394	411	517	617	7432	12347	6457	4249	3370
MEAN	39.3	30.9	14.0	12.7	14.7	16.7	20.6	240	412	208	137	112
MAX	47	41	16	14	17	21	29	578	661	378	169	135
MIN	36	14	12	11	12	14	18	29	303	133	120	42
AC-FT	2410	1840	861	781	815	1030	1220	14740	24490	12810	8430	6680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1998, BY WATER YEAR (WY)

MEAN	48.5	23.1	16.4	14.8	14.9	16.3	23.6	173	444	225	118	75.1
MAX	135	46.9	31.7	30.0	29.4	35.3	46.5	440	799	640	239	126
(WY)	1983	1986	1974	1974	1986	1986	1987	1996	1984	1995	1983	1995
MIN	20.2	8.18	6.79	2.36	3.03	4.45	8.46	46.5	114	89.0	73.9	32.2
(WY)	1991	1990	1978	1971	1971	1971	1977	1995	1977	1977	1981	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1971 - 1998	
ANNUAL TOTAL	45182		38371			
ANNUAL MEAN	124		105		a99.6	
HIGHEST ANNUAL MEAN					180	1984
LOWEST ANNUAL MEAN					40.2	1977
HIGHEST DAILY MEAN	1070	Jun 1	661	Jun 3	1330	Jun 16 1995
LOWEST DAILY MEAN	e12	Dec 13	e11	Jan 2	b,c.00	Dec 24 1970
ANNUAL SEVEN-DAY MINIMUM	13	Nov 30	12	Jan 9	.00	Dec 24 1970
INSTANTANEOUS PEAK FLOW			766	Jun 2	d1620	Jun 5 1997
INSTANTANEOUS PEAK STAGE			3.15	Jun 2	f3.91	Jun 5 1997
ANNUAL RUNOFF (AC-FT)	89620		76110		72170	
10 PERCENT EXCEEDS	433		338		276	
50 PERCENT EXCEEDS	37		37		30	
90 PERCENT EXCEEDS	15		13		11	

e-Estimated.
a-Average discharge for 16 years (water years 1955-70), 88.6 ft^3/s; 64190 acre-ft/yr, prior to completion of Silver Jack Dam.
b-Also occurred Dec 25-31, 1970, and Jan 1-9, 1971. Result of storage in Silver Jack Dam.
c-Minimum daily discharge prior to construction of Silver Jack Dam, 8.0 ft^3/s, Dec 27-28, 1962, and Jan 13, 1963.
d-Maximum discharge and stage for period of record, 1790 ft^3/s, Jun 28, 1957, gage height, 8.32 ft, site and datum then in use.
f-Maximum gage height for statistical period, 6.16 ft, Jun 25, 1971.

09128000 GUNNISON RIVER BELOW GUNNISON TUNNEL, CO

LOCATION.--Lat 38°31'45", long 107°38'54", in NE¼NW¼ 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 mi^2.

WATER-DISCHARGE RECORDS

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.

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.

COOPERATION.--Diversions, in acre-feet, through Gunnison tunnel; provided by Colorado Division of Water Resources.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1500	1620	1910	2070	1510	1440	718	912	1310	769	696	695
2	1500	1760	1910	2050	1460	1440	718	916	1020	765	697	695
3	1500	1790	1900	2050	1460	1440	721	917	987	763	696	713
4	1500	1790	1910	2040	1500	1270	720	918	968	762	699	717
5	1500	1790	1900	2030	1510	1180	724	942	993	759	700	719
6	1500	1790	1870	2030	1510	1170	729	1070	1040	756	696	719
7	1500	1790	1870	1900	1510	1160	730	1260	1020	756	695	719
8	1500	1790	1830	1720	1510	936	731	1390	1030	753	694	732
9	1500	1790	1850	1570	1510	660	733	1400	1010	756	688	738
10	1500	1770	1900	1530	1510	961	734	1320	1010	757	692	738
11	1500	1750	1900	1520	1520	1090	735	1300	999	751	684	739
12	1500	1760	1890	1480	1500	1100	740	1310	935	749	685	740
13	1500	1780	1890	1480	1490	1110	741	1300	932	743	682	744
14	1500	1850	1880	1510	1490	1110	741	1280	933	736	682	765
15	1500	1980	1910	1510	1490	1110	745	1270	933	735	686	809
16	1500	1980	1920	1510	1490	1020	745	1300	939	735	684	829
17	1500	1950	1900	1510	1490	920	749	1300	937	729	686	831
18	1500	1950	1920	1520	1470	908	754	1290	828	729	687	835
19	1510	1990	1950	1510	1450	906	756	1530	783	728	685	835
20	1510	1990	2070	1520	1450	907	760	2050	782	723	684	830
21	1510	1990	2080	1510	1450	909	757	2570	783	722	684	829
22	1510	1990	2050	1510	1440	916	765	3060	781	721	684	824
23	1510	2000	2050	1510	1400	915	763	3290	782	717	685	610
24	1510	2000	2080	1510	1390	750	765	3280	781	717	687	651
25	1500	2000	2080	1510	1450	705	784	3280	778	715	686	670
26	1520	1990	2070	1510	1440	709	807	3080	776	712	687	677
27	1520	1980	2080	1520	1440	708	837	2700	772	711	687	678
28	1520	1980	2070	1520	1440	710	876	2360	773	710	689	650
29	1520	1980	2080	1510	---	715	897	2050	771	706	688	611
30	1520	1950	2080	1510	---	714	907	1770	769	706	691	610
31	1520	---	2070	1510	---	715	---	1680	---	701	694	---
TOTAL	46680	56520	60870	50690	41280	30304	22882	54095	27155	22792	21360	21952
MEAN	1506	1884	1964	1635	1474	978	763	1745	905	735	689	732
MAX	1520	2000	2080	2070	1520	1440	907	3290	1310	769	700	835
MIN	1500	1620	1830	1480	1390	660	718	912	769	701	682	610
AC-FT	92590	112100	120700	100500	81880	60110	45390	107300	53860	45210	42370	43540
a	28020	463	345	174	353	14320	33760	46700	58600	60500	60980	52530

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1998, BY WATER YEAR (WY)

MEAN	553	761	803	790	781	879	1313	3206	4077	1553	673	491
MAX	2114	1888	2165	2732	3153	3278	3282	8617	11670	8468	2237	2447
(WY)	1912	1971	1987	1974	1971	1971	1930	1928	1957	1957	1957	1929
MIN	17.0	116	141	143	155	248	177	216	123	61.1	34.4	8.37
(WY)	1935	1935	1966	1966	1966	1966	1954	1967	1954	1940	1924	1937

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1911 - 1998	
ANNUAL TOTAL	775582		456580			
ANNUAL MEAN	2125		1251		1324	
HIGHEST ANNUAL MEAN					2936	1984
LOWEST ANNUAL MEAN					261	1967
HIGHEST DAILY MEAN	4730	Jun 26	3290	May 23	18600	Jun 15 1921
LOWEST DAILY MEAN	639	Sep 24	b610	Sep 23	c.00	Sep 11 1915
ANNUAL SEVEN-DAY MINIMUM	761	Sep 21	650	Sep 23	.30	Oct 26 1950
INSTANTANEOUS PEAK FLOW			3350	May 23	d19000	Jun 15 1921
INSTANTANEOUS PEAK STAGE			6.16	May 23	15.80	Jun 15 1921
ANNUAL RUNOFF (AC-FT)	1538000		905600		958900	
10 PERCENT EXCEEDS	3560		1980		3180	
50 PERCENT EXCEEDS	1880		1170		602	
90 PERCENT EXCEEDS	1290		696		190	

a-Diversions, in acre-feet, through Gunnison tunnel, provided by Colorado Division of Water Resources.
b-Also occurred Sep 30.
c-Also occurred Sep 26, 1936, Oct 8, 1949, Sep 5-6, and 15-16, 1950.
d-Present datum, from rating curve extended above 14000 ft^3/s.

09128000 GUNNISON RIVER BELOW GUNNISON TUNNEL, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1996 to September 1998 (discontinued).

INSTRUMENTATION.--Water temperature sensor and logger October 1996 to September 1998 (discontinued).

REMARKS.--Upper Colorado River Basin National Water Quality Assessment Program station (NAWQA). Daily water temperature data are good. Data not published are missing or of unacceptable quality.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 12.8°C, Oct. 1,4, 1997; minimum, 1.2°C, several days, February 1997.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 12.8°C, Oct. 1,4; minimum, 1.5°C, Feb. 2,3.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT												
21...	1650	1510	165	8.0	10.0	8.7	73	21	4.6	3.8	0.2	1.2
NOV												
17...	1400	2030	173	8.0	8.0	9.2	76	23	4.9	4.2	0.2	1.2
DEC												
22...	1200	2060	172	8.0	5.0	10.4	81	24	5.0	3.8	0.2	1.1
JAN												
30...	1030	1520	182	8.0	2.0	11.1	83	25	5.2	4.0	0.2	1.1
FEB												
26...	1130	1450	180	8.0	2.5	11.1	84	25	5.2	4.0	0.2	1.3
MAR												
09...	1245	600	181	8.3	3.0	12.5	82	24	5.1	4.2	0.2	1.3
APR												
24...	1430	766	224	8.2	5.0	10.1	100	29	7.2	6.6	0.3	1.5
MAY												
13...	1330	1280	189	8.2	7.5	9.6	79	23	5.2	5.4	0.3	1.4
19...	1300	1560	170	8.1	7.0	10.0	73	21	4.7	4.8	0.2	1.5
25...	1445	3280	156	7.8	8.0	9.3	70	21	4.5	4.1	0.2	1.4
JUN												
05...	1040	990	149	7.8	8.5	9.4	62	18	4.0	4.3	0.2	1.5
JUL												
21...	1140	726	181	8.2	11.0	9.5	81	24	5.3	5.1	0.2	1.4
AUG												
25...	1440	686	182	8.1	11.5	8.7	80	23	5.1	4.7	0.2	1.1
SEP												
11...	0920	736	181	8.0	11.5	8.4	76	22	4.9	4.7	0.2	1.3

09128000 GUNNISON RIVER BELOW GUNNISON TUNNEL, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	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)
OCT											
21...	--	a--	13	0.9	<0.1	12	106	99	0.14	432	<0.01
NOV											
17...	77	63	17	0.8	0.2	12	119	102	0.16	653	<0.01
DEC											
22...	88	72	15	0.7	0.2	12	116	105	0.16	645	<0.01
JAN											
30...	90	74	15	0.9	0.2	12	121	107	0.16	497	<0.01
FEB											
26...	106	87	15	0.9	0.1	12	112	116	0.15	439	<0.01
MAR											
09...	--	a--	16	1.0	0.2	11	118	110	0.16	191	<0.01
APR											
24...	94	77	29	1.4	0.2	13	144	135	0.20	298	<0.01
MAY											
13...	87	71	20	1.1	0.1	14	132	112	0.18	458	<0.01
19...	71	58	16	1.0	0.1	16	119	100	0.16	501	<0.01
25...	--	a--	13	0.9	0.1	16	106	101	0.14	939	<0.01
JUN											
05...	73	60	14	0.6	0.1	16	105	95	0.14	281	0.02
JUL											
21...	94	77	16	0.9	0.1	13	121	113	0.16	237	<0.01
AUG											
25...	89	73	17	0.9	0.2	12	120	109	0.16	222	<0.01
SEP											
11...	84	69	17	0.9	0.2	12	123	104	0.17	244	<0.01

DATE	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)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)
OCT											
21...	0.08	<0.01	<0.2	<0.2	0.01	0.01	0.01	2.6	<0.2	13	3
NOV											
17...	0.12	<0.02	0.2	<0.1	0.02	0.01	0.03	2.5	<0.2	4	1
DEC											
22...	0.09	<0.02	0.1	<0.1	<0.01	<0.01	<0.01	2.1	<0.2	<10	<4
JAN											
30...	0.09	0.02	0.1	0.1	0.01	<0.01	0.02	2.2	<0.2	<10	<4
FEB											
26...	0.12	0.03	0.1	<0.1	<0.01	<0.01	0.02	2.0	<0.2	<10	<4
MAR											
09...	<0.05	<0.02	0.1	0.1	<0.01	<0.01	0.02	2.1	0.2	<10	<4
APR											
24...	0.08	0.04	0.2	0.1	0.01	<0.01	0.01	2.4	0.4	<10	<4
MAY											
13...	<0.05	0.04	0.3	0.1	0.02	<0.01	0.01	2.9	0.5	<10	<4
19...	0.08	0.03	0.2	0.2	0.03	<0.01	<0.01	3.0	0.4	<10	<4
25...	0.08	<0.02	0.1	0.2	0.02	0.03	0.02	3.2	0.4	<10	<4
JUN											
05...	0.05	0.02	0.2	0.1	<0.01	<0.01	0.02	2.8	0.5	<10	<4
JUL											
21...	--	0.03	0.2	0.2	0.01	<0.01	0.01	2.3	0.3	<10	<4
AUG											
25...	<0.05	<0.02	0.1	0.1	<0.01	<0.01	<0.01	2.2	0.2	<10	<4
SEP											
11...	<0.05	0.03	0.1	<0.1	<0.01	<0.01	0.01	2.3	<0.2	<10	<4

a-Field alkalinity values deleted. Laboratory acid neutralizing capacity values: Oct.21, 70 mg/l; Mar. 9, 79 mg/L; May 25, 67 mg/L.

09128000 GUNNISON RIVER BELOW GUNNISON TUNNEL, CO--Continued

(National Water-Quality Assessment Program station)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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...	1310	1550	174	10.0
DEC				
16...	1240	1980	185	4.0
FEB				
17...	1125	1500	181	2.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154) [b]	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT				
21...	1650	1510	1	4.1
NOV				
17...	1400	2030	2	11
DEC				
22...	1200	2060	2	11
JAN				
30...	1030	1520	1	4.9
FEB				
26...	1130	1450	1	3.5
MAR				
09...	1245	599	1	1.5
APR				
24...	1430	766	19	39
MAY				
13...	1330	1290	14	48
19...	1300	1560	11	46
25...	1445	3280	7	58
JUN				
05...	1040	990	23	63
JUL				
21...	1140	726	3	5.9
21...	1141	726	2	3.9
AUG				
25...	1440	686	1	1.9
SEP				
11...	0920	736	3	6.0

b-Suspended-sediment concentration determined from a subsample split of a composite sample.

09128000 GUNNISON RIVER BELOW GUNNISON TUNNEL, CO--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	12.8	12.1	12.3	7.1	6.6	6.7	7.3	7.1	7.2	3.4	3.2	3.3
2	12.7	12.2	12.3	7.1	6.6	6.8	7.1	7.0	7.0	3.5	3.2	3.4
3	12.5	12.2	12.3	7.3	6.6	6.9	7.0	6.7	6.9	3.5	3.4	3.4
4	12.8	12.1	12.3	7.1	6.6	6.8	6.8	6.5	6.6	3.4	3.2	3.3
5	12.7	12.1	12.2	7.3	6.7	6.9	6.6	6.3	6.5	3.2	3.2	3.2
6	12.7	12.1	12.2	7.3	6.8	6.9	6.5	6.3	6.3	3.4	3.0	3.2
7	12.5	11.9	12.1	7.4	7.0	7.1	6.3	6.2	6.3	3.2	2.9	3.0
8	12.1	11.8	11.9	7.7	7.3	7.4	6.2	5.9	6.1	3.0	2.7	2.9
9	12.2	11.8	11.8	7.7	7.4	7.6	6.0	5.9	6.0	2.7	2.6	2.7
10	12.1	11.4	11.7	8.0	7.6	7.8	6.0	5.9	5.9	2.7	2.6	2.6
11	11.8	11.3	11.4	8.3	8.0	8.1	6.0	5.7	5.9	2.9	2.7	2.8
12	11.6	11.1	11.2	8.3	8.0	8.2	5.9	5.6	5.7	3.0	2.7	2.8
13	11.4	11.0	11.1	8.5	8.3	8.4	5.7	5.4	5.5	2.7	2.6	2.6
14	11.4	10.8	11.0	8.5	8.2	8.3	5.4	5.1	5.3	2.9	2.5	2.6
15	11.1	10.5	10.8	8.5	8.0	8.2	5.1	4.8	5.0	2.5	2.3	2.4
16	11.0	10.4	10.6	8.2	7.9	8.0	4.8	4.5	4.7	2.9	2.4	2.6
17	10.8	10.4	10.4	8.0	7.7	7.9	4.6	4.5	4.5	2.7	2.6	2.6
18	10.7	10.2	10.3	7.9	7.6	7.7	4.6	4.5	4.5	2.9	2.6	2.6
19	10.7	10.2	10.3	7.9	7.6	7.7	4.6	4.3	4.5	2.6	2.3	2.5
20	10.5	10.0	10.2	7.9	7.7	7.8	4.5	4.3	4.3	2.9	2.4	2.6
21	10.5	10.0	10.1	7.9	7.7	7.8	4.3	4.2	4.3	2.4	2.1	2.3
22	10.5	10.0	10.1	7.9	7.6	7.7	4.5	4.2	4.2	2.3	2.1	2.1
23	10.4	10.0	10.1	7.7	7.4	7.6	4.3	4.0	4.1	2.4	2.1	2.2
24	10.2	9.9	10.0	7.7	7.4	7.5	4.2	4.0	4.0	2.3	1.9	2.1
25	10.0	9.9	9.9	7.6	7.4	7.5	4.2	3.8	4.0	2.1	1.9	2.0
26	10.2	9.7	9.9	7.4	7.4	7.4	4.0	3.7	3.8	2.3	1.9	2.0
27	10.0	9.6	9.8	7.4	7.3	7.4	3.7	3.5	3.6	1.9	1.8	1.9
28	9.6	7.7	8.7	7.4	7.3	7.3	3.7	3.4	3.5	1.9	1.8	1.8
29	7.7	7.0	7.3	7.3	7.1	7.3	3.7	3.4	3.5	1.9	1.6	1.7
30	7.1	6.6	6.8	7.3	7.1	7.2	3.4	3.0	3.2	1.9	1.6	1.8
31	7.1	6.6	6.8	---	---	---	3.2	3.0	3.1	1.9	1.6	1.8
MONTH	12.8	6.6	10.6	8.5	6.6	7.5	7.3	3.0	5.0	3.5	1.6	2.5
		FEBRUARY			MARCH			APRIL			MAY	
1	1.9	1.6	1.7	2.6	1.9	2.1	4.2	3.2	3.5	5.9	4.6	5.0
2	1.6	1.5	1.6	2.7	1.9	2.2	3.5	3.2	3.3	5.9	4.8	5.2
3	1.8	1.5	1.6	2.7	2.1	2.2	4.2	3.2	3.5	6.2	4.9	5.3
4	1.9	1.6	1.7	2.6	2.1	2.2	4.3	3.2	3.5	6.3	5.1	5.5
5	2.1	1.8	1.8	2.9	1.9	2.2	4.2	3.2	3.5	6.0	5.2	5.5
6	2.1	1.6	1.8	2.4	2.1	2.2	3.8	3.4	3.5	6.0	5.6	5.8
7	1.9	1.6	1.8	2.4	2.1	2.2	4.0	3.4	3.5	6.5	5.7	6.1
8	1.8	1.6	1.7	3.0	1.9	2.3	4.3	3.4	3.7	6.6	6.0	6.4
9	2.3	1.6	1.9	---	---	---	4.3	3.5	3.8	6.8	6.3	6.5
10	2.3	1.6	1.9	3.2	2.1	2.4	4.6	3.7	4.0	7.1	6.2	6.5
11	1.8	1.6	1.7	3.0	2.1	2.4	4.9	3.8	4.3	6.8	6.2	6.5
12	2.3	1.6	1.9	3.2	2.1	2.4	4.3	3.8	4.0	7.1	6.3	6.6
13	1.9	1.6	1.7	3.2	2.3	2.5	4.2	3.7	3.8	7.0	6.3	6.5
14	2.1	1.8	1.9	3.0	2.3	2.5	4.2	3.7	3.9	6.6	6.3	6.5
15	2.1	1.6	1.8	3.2	2.4	2.6	4.5	3.8	3.9	7.3	6.3	6.7
16	2.1	1.8	1.9	3.2	2.4	2.6	4.2	3.7	3.9	7.6	6.5	6.8
17	2.1	1.8	1.9	3.2	2.4	2.6	---	---	---	7.4	6.5	6.7
18	2.3	1.8	1.9	2.9	2.3	2.6	---	---	---	7.3	6.6	6.9
19	2.3	1.8	1.9	3.5	2.6	2.9	---	---	---	7.4	6.8	7.0
20	2.3	1.8	1.9	3.5	2.6	2.9	---	---	---	7.4	7.1	7.2
21	2.4	1.8	2.0	3.5	2.6	2.9	---	---	---	7.6	7.1	7.3
22	2.4	1.9	2.0	3.5	2.7	2.9	---	---	---	7.7	7.3	7.4
23	2.3	1.9	2.1	3.5	2.7	3.0	---	---	---	7.6	7.1	7.3
24	2.4	1.9	2.1	3.7	2.7	3.0	---	---	---	7.4	7.0	7.2
25	2.3	1.9	2.0	3.8	2.7	3.1	4.8	4.2	4.4	7.7	7.1	7.4
26	2.6	1.9	2.1	3.7	2.9	3.1	4.9	4.5	4.7	7.7	7.3	7.5
27	2.6	1.9	2.1	3.7	3.0	3.2	5.6	4.6	5.0	8.0	7.4	7.7
28	2.4	1.9	2.1	3.5	3.0	3.3	5.4	4.6	5.0	8.0	7.6	8.0
29	---	---	---	3.5	2.9	3.2	5.9	4.6	5.1	---	---	---
30	---	---	---	3.7	3.0	3.3	5.9	4.6	5.0	---	---	---
31	---	---	---	4.2	3.2	3.4	---	---	---	---	---	---
MONTH	2.6	1.5	1.9	---	---	---	---	---	---	---	---	---

09128000 GUNNISON RIVER BELOW GUNNISON TUNNEL, CO--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	11.7	10.2	10.6	11.3	10.5	10.7	11.9	11.3	11.4
2	---	---	---	12.0	10.2	10.8	11.4	10.3	10.7	12.0	11.1	11.4
3	---	---	---	11.7	10.5	10.8	11.3	10.5	10.7	12.0	11.1	11.4
4	---	---	---	12.0	10.5	10.8	11.6	10.5	10.8	12.2	11.3	11.5
5	---	---	---	11.7	10.5	10.8	11.4	10.6	10.9	12.2	11.3	11.6
6	---	---	---	11.7	10.5	10.8	11.6	10.5	10.9	12.2	11.4	11.6
7	---	---	---	11.1	10.3	10.5	11.4	10.5	10.8	12.2	11.4	11.7
8	---	---	---	11.4	10.3	10.6	11.6	10.5	10.8	12.2	11.6	11.7
9	---	---	---	10.9	10.2	10.4	11.6	10.5	10.8	12.2	11.4	11.7
10	---	---	---	10.8	10.0	10.4	10.9	10.6	10.7	12.2	11.6	11.8
11	9.1	8.3	8.7	11.6	10.0	10.4	11.3	10.5	10.7	---	---	---
12	9.4	8.3	8.7	11.4	10.0	10.4	11.4	10.5	10.7	---	---	---
13	9.1	8.3	8.6	11.4	10.0	10.5	11.4	10.5	10.7	---	---	---
14	9.2	8.3	8.7	11.4	10.0	10.5	11.4	10.5	10.7	---	---	---
15	9.7	8.5	8.9	11.4	10.0	10.5	11.6	10.6	10.9	---	---	---
16	8.9	8.6	8.7	11.4	10.2	10.5	11.6	10.6	10.9	---	---	---
17	9.4	8.5	8.8	11.7	10.2	10.6	11.4	10.6	10.8	---	---	---
18	10.0	8.5	9.0	11.9	10.2	10.7	11.3	10.6	10.8	---	---	---
19	10.0	8.6	9.0	11.9	10.2	10.7	11.6	10.6	10.9	---	---	---
20	9.6	8.6	9.0	11.7	10.3	10.7	11.6	10.6	10.9	---	---	---
21	10.0	8.8	9.2	11.3	10.3	10.6	11.3	10.8	10.9	---	---	---
22	10.8	8.9	9.4	11.3	10.3	10.6	11.6	10.8	11.0	---	---	---
23	10.8	9.1	9.5	11.1	10.3	10.5	11.7	10.8	11.1	---	---	---
24	10.8	9.1	9.6	10.8	10.3	10.5	11.6	10.9	11.1	---	---	---
25	10.8	9.2	9.7	10.9	10.3	10.5	11.6	10.9	11.1	---	---	---
26	10.8	9.2	9.8	10.8	10.3	10.5	11.9	10.9	11.2	---	---	---
27	11.1	9.4	9.9	11.4	10.3	10.6	11.7	10.9	11.1	---	---	---
28	11.4	9.6	10.2	11.1	10.3	10.5	12.0	10.9	11.3	---	---	---
29	11.7	9.7	10.4	11.4	10.5	10.7	12.0	11.1	11.4	---	---	---
30	11.9	10.0	10.6	11.3	10.5	10.7	12.0	11.1	11.4	---	---	---
31	---	---	---	11.3	10.5	10.8	12.0	11.1	11.4	---	---	---
MONTH	---	---	---	12.0	10.0	10.6	12.0	10.3	10.9	---	---	---

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 mi^2.

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 contents, 17,220 acre-ft, May 29, elevation, 6,449.05 ft; minimum contents, 962 acre-ft, April 18, elevation, 6,375.70 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	6,430.81	11,530	
Oct. 31	6,401.97	4,480	-7,050
Nov. 30	6,394.30	3,160	-1,320
Dec. 31	6,392.43	2,860	-300
CAL YR 1997			+620
Jan. 31	6,392.39	2,860	0
Feb. 28	6,391.97	2,790	-70
Mar. 31	6,380.19	1,330	-1,460
Apr. 30	6,395.43	3,340	+2,010
May 31	6,449.02	17,210	+13,870
June 30	6,448.20	16,940	-270
July 31	6,447.98	16,860	-80
Aug. 31	6,427.01	10,440	-6,420
Sept. 30	6,393.09	2,970	-7,470
WTR YR 1998			-8,560

09132500 NORTH FORK GUNNISON RIVER NEAR SOMERSET, CO

LOCATION.--Lat 38°55'33", long 107°26'01", in SE¼SW¼ 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 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	266	235	143	e80	e74	80	396	2140	2530	1240	316	232
2	216	218	141	e84	e70	104	411	2280	2680	1130	290	230
3	445	210	141	e88	e74	86	399	2540	2630	1020	285	211
4	495	212	117	e92	e78	78	410	2730	2340	953	309	215
5	452	208	e110	e90	e80	80	419	2640	1990	897	294	216
6	426	199	e120	e79	e82	82	436	2440	1590	856	283	215
7	419	190	143	e70	e83	82	420	2260	1360	803	273	211
8	438	189	145	e68	e82	78	407	2170	1270	745	268	212
9	419	191	136	e70	e83	79	392	2160	1190	715	268	223
10	419	191	131	e72	e76	80	398	2350	1230	753	275	221
11	426	194	99	e80	e68	79	471	2560	1220	712	269	221
12	438	197	75	e80	e76	91	582	2550	1180	675	264	244
13	416	188	e72	e78	e66	108	728	2700	1360	e600	252	238
14	412	178	e80	e72	e76	121	761	2830	1260	e450	244	222
15	417	132	e92	e66	e76	144	608	2440	1240	e350	231	213
16	417	128	e100	e76	e75	204	584	2350	1210	e300	218	209
17	413	165	e90	e76	e74	226	533	2460	1350	e300	221	207
18	385	160	e94	e72	e76	220	474	2740	1160	e290	237	199
19	355	159	e96	e74	78	220	409	2960	1070	e280	240	199
20	344	160	e90	e76	78	229	437	3010	1280	e280	229	203
21	337	153	e85	e66	78	238	550	3160	1340	e275	229	200
22	329	150	e92	e58	78	260	746	2980	1490	e270	227	194
23	320	145	e86	e70	77	318	1120	2600	1510	e280	224	188
24	334	148	e82	e74	80	412	1590	2000	1400	e280	221	194
25	318	152	e78	e74	82	618	1940	1680	1280	e290	222	194
26	308	147	e74	e72	81	888	1690	1730	1310	e280	227	192
27	304	160	e68	e68	80	1130	1550	1800	1370	e270	232	185
28	307	150	e74	e68	68	1280	1570	2080	1360	e290	225	181
29	276	147	e84	e68	---	926	1700	2840	1350	e300	216	191
30	239	143	e84	e72	---	438	1940	2850	1320	342	215	198
31	237	---	e80	e78	---	416	---	2630	---	288	222	---
TOTAL	11327	5199	3102	2311	2149	9395	24071	76660	44870	16514	7726	6258
MEAN	365	173	100	74.5	76.8	303	802	2473	1496	533	249	209
MAX	495	235	145	92	83	1280	1940	3160	2680	1240	316	244
MIN	216	128	68	58	66	78	392	1680	1070	270	215	181
AC-FT	22470	10310	6150	4580	4260	18630	47740	152100	89000	32760	15320	12410

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1998, BY WATER YEAR (WY)

MEAN	121	94.4	77.3	65.6	71.0	155	733	1951	1508	462	200	152
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 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1934 - 1998	
ANNUAL TOTAL	253490		209582			
ANNUAL MEAN	694		574		467	
HIGHEST ANNUAL MEAN					829	1984
LOWEST ANNUAL MEAN					114	1977
HIGHEST DAILY MEAN	3370	May 16	3160	May 21	7080	May 24 1984
LOWEST DAILY MEAN	e68	Dec 27	e58	Jan 22	17	Nov 10 1950
ANNUAL SEVEN-DAY MINIMUM	77	Dec 25	69	Jan 21	25	Feb 17 1978
INSTANTANEOUS PEAK FLOW			3380	May 21	9220	May 24 1984
INSTANTANEOUS PEAK STAGE			5.00	May 21	a8.20	May 24 1984
ANNUAL RUNOFF (AC-FT)	502800		415700		338400	
10 PERCENT EXCEEDS	2170		1760		1530	
50 PERCENT EXCEEDS	282		232		136	
90 PERCENT EXCEEDS	108		76		53	

e-Estimated.
a-From outside high-water mark.

09134000 MINNESOTA CREEK NEAR PAONIA, CO

LOCATION.--Lat 38°52'12", long 107°30'13", in SE¼NE¼ of sec.1, 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 mi^2.

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 diversion 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	8.7	8.0	5.3	e4.2	e4.6	13	70	77	44	e20	22
2	9.3	8.2	6.5	5.3	e4.4	e4.5	14	85	81	43	e21	22
3	21	8.8	e6.2	6.1	e4.6	e4.4	15	104	88	42	e19	21
4	14	8.6	e6.6	6.0	e4.7	4.6	14	116	86	41	e17	20
5	13	7.9	e7.0	5.7	e4.7	4.5	14	116	78	41	e15	19
6	12	7.8	e7.4	5.5	e4.8	4.7	16	115	63	40	e17	18
7	11	7.6	e6.8	e4.9	e4.7	4.7	15	97	55	40	e19	13
8	13	7.5	6.6	e4.8	e4.5	e4.5	15	90	51	40	22	4.6
9	12	7.8	6.2	e4.9	e4.1	e4.7	14	94	48	45	23	4.0
10	11	7.9	e4.5	e5.2	e4.3	e5.0	15	102	46	39	24	4.0
11	11	8.2	e4.8	5.3	e3.9	e5.4	17	114	45	e28	25	4.0
12	13	8.9	e5.2	5.3	e4.3	5.6	20	112	44	e28	25	7.9
13	12	7.9	e5.6	5.2	e4.8	6.3	18	112	46	e27	25	7.1
14	11	7.6	e6.2	e4.5	e4.7	7.3	17	123	45	e26	21	4.6
15	11	6.7	e5.8	e4.6	e4.6	8.9	15	112	44	e24	24	4.3
16	11	e8.0	e6.0	4.8	e4.5	11	14	103	47	e24	24	4.2
17	11	e8.0	e5.8	4.8	e4.5	11	14	103	49	e24	23	4.6
18	11	e8.2	e5.6	4.8	e4.6	9.2	17	106	45	e25	23	4.9
19	10	8.0	e5.6	4.7	e4.5	6.9	22	100	44	e25	19	5.4
20	10	7.9	e6.2	4.8	e4.6	7.2	22	96	44	e26	20	5.6
21	9.6	7.6	e5.8	e3.7	e4.5	8.1	24	106	44	e26	20	5.9
22	9.6	7.4	5.7	e4.5	4.6	11	28	115	43	e27	23	5.7
23	9.7	e7.6	e5.2	e4.4	4.7	17	30	106	44	e28	25	5.5
24	11	e7.8	e5.0	e4.3	e4.6	22	37	103	43	e29	25	4.2
25	10	e7.6	e4.7	e4.1	e4.4	30	49	98	42	e30	25	3.9
26	9.2	6.9	e4.8	e4.1	e4.0	29	39	110	42	e28	24	2.8
27	10	8.8	e5.2	e4.0	e4.1	27	37	108	42	e25	24	2.7
28	9.3	7.1	e5.4	e4.2	e4.4	23	39	119	42	e27	23	2.4
29	9.1	6.8	e5.0	e4.4	---	18	44	103	44	e28	23	2.4
30	9.0	8.5	e4.8	e4.3	---	17	55	87	45	e29	22	2.4
31	8.9	---	e4.9	e4.0	---	15	---	81	---	e24	22	---
TOTAL	341.1	236.3	179.1	148.5	125.3	342.1	703	3206	1557	973	682	238.1
MEAN	11.0	7.88	5.78	4.79	4.47	11.0	23.4	103	51.9	31.4	22.0	7.94
MAX	21	8.9	8.0	6.1	4.8	30	55	123	88	45	25	22
MIN	8.4	6.7	4.5	3.7	3.9	4.4	13	70	42	24	15	2.4
AC-FT	677	469	355	295	249	679	1390	6360	3090	1930	1350	472

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1998, BY WATER YEAR (WY)

MEAN	6.28	5.51	4.53	3.69	4.15	7.76	29.6	99.5	77.1	29.3	15.6	8.22
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	3.28	2.50	1.78	1.71	2.40	3.32	7.18	23.6	25.2	11.6	4.49	3.57
(WY)	1995	1941	1990	1990	1992	1991	1990	1990	1990	1939	1990	1946

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1937 - 1998	
ANNUAL TOTAL	13350.3		8731.5			
ANNUAL MEAN	36.6		23.9		24.4	
HIGHEST ANNUAL MEAN					46.9	1993
LOWEST ANNUAL MEAN					7.97	1990
HIGHEST DAILY MEAN	236	May 23	123	May 14	340	May 28 1993
LOWEST DAILY MEAN	3.0	Feb 22	a2.4	Sep 28	1.0	Nov 14 1936
ANNUAL SEVEN-DAY MINIMUM	3.5	Feb 21	3.0	Sep 24	1.4	Jan 16 1990
INSTANTANEOUS PEAK FLOW			133	Jul 9	359	May 28 1993
INSTANTANEOUS PEAK STAGE			1.87	Jul 9	b3.24	May 28 1993
ANNUAL RUNOFF (AC-FT)	26480		17320		17650	
10 PERCENT EXCEEDS	139		66		72	
50 PERCENT EXCEEDS	14		11		7.5	
90 PERCENT EXCEEDS	4.2		4.5		3.0	

e-Estimated.
a-Also occurred Sep 29, 30.
b-Maximum gage height, 3.70 ft, May 22, 1942, site and datum then in use.

09135950 NORTH FORK GUNNISON RIVER BELOW LEROUX CREEK, NEAR HOTCHKISS, CO

LOCATION.--Lat 38°47'18", long 107°44'21", in SW¼SW¼ 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 mi^2.

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 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.--Maximum discharge during period of seasonal operation, 1,390 ft^3/s, July 1, 1998, gage height, 10.15 ft; minimum daily, 81 ft^3/s, Sept. 27, 28, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 1,390 ft^3/s at 0700, July 1, gage height, 10.15 ft; minimum daily, 81 ft^3/s, Sept. 27, 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	288	---	---	---	---	---	---	---	---	1250	226	110
2	281	---	---	---	---	---	---	---	---	1130	207	125
3	433	---	---	---	---	---	---	---	---	1060	138	106
4	467	---	---	---	---	---	---	---	---	1000	191	89
5	418	---	---	---	---	---	---	---	---	948	166	92
6	423	---	---	---	---	---	---	---	---	887	160	92
7	453	---	---	---	---	---	---	---	---	853	144	91
8	524	---	---	---	---	---	---	---	---	825	132	87
9	505	---	---	---	---	---	---	---	---	751	129	87
10	515	---	---	---	---	---	---	---	---	896	129	88
11	562	---	---	---	---	---	---	---	---	766	140	95
12	587	---	---	---	---	---	---	---	---	722	142	128
13	548	---	---	---	---	---	---	---	---	587	130	192
14	543	---	---	---	---	---	---	---	---	461	125	149
15	582	---	---	---	---	---	---	---	---	380	114	128
16	591	---	---	---	---	---	---	---	---	304	102	114
17	576	---	---	---	---	---	---	---	---	265	89	113
18	561	---	---	---	---	---	---	---	---	238	96	110
19	516	---	---	---	---	---	---	---	---	215	117	102
20	501	---	---	---	---	---	---	---	---	188	110	98
21	480	---	---	---	---	---	---	---	---	148	104	100
22	468	---	---	---	---	---	---	---	---	130	106	99
23	462	---	---	---	---	---	---	---	---	130	106	98
24	524	---	---	---	---	---	---	---	---	147	100	92
25	502	---	---	---	---	---	---	---	---	187	97	86
26	467	---	---	---	---	---	---	---	---	234	102	83
27	454	---	---	---	---	---	---	---	---	212	103	81
28	460	---	---	---	---	---	---	---	---	208	110	81
29	441	---	---	---	---	---	---	---	---	255	100	84
30	374	---	---	---	---	---	---	---	---	286	90	95
31	369	---	---	---	---	---	---	---	---	189	92	---
TOTAL	14875	---	---	---	---	---	---	---	---	15852	3897	3095
MEAN	480	---	---	---	---	---	---	---	---	511	126	103
MAX	591	---	---	---	---	---	---	---	---	1250	226	192
MIN	281	---	---	---	---	---	---	---	---	130	89	81
AC-FT	29500	---	---	---	---	---	---	---	---	31440	7730	6140

09143000 SURFACE CREEK NEAR CEDAREDGE, CO

LOCATION.--Lat 38°59'05", long 107°51'13", in NW¼NW¼ 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 mi^2.

PERIOD OF RECORD.--July 1939 to current year. 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.-- Records good except for estimated daily discharges, which are poor. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	10	e5.6	e3.8	e3.3	e7.8	e24	115	256	95	30	50
2	22	10	e5.2	e4.0	e3.4	e7.0	e22	118	269	90	25	52
3	45	11	e4.8	e4.2	e3.5	e6.0	e23	152	267	86	26	53
4	27	9.6	e4.5	e4.4	e3.6	e5.2	e21	166	238	81	26	56
5	24	8.5	e4.1	e4.5	e3.7	e5.4	e23	148	214	74	44	56
6	21	8.0	e3.7	e4.4	e3.5	e5.2	e21	140	186	99	44	55
7	22	8.1	e3.9	e4.0	e3.6	e5.2	e23	121	163	97	53	40
8	29	8.0	e4.2	e3.7	e3.9	e5.4	e21	110	147	96	52	39
9	26	7.9	e4.4	e3.8	e3.7	e5.6	e20	114	145	92	51	64
10	29	7.4	e4.6	e4.0	e3.9	e6.0	e19	141	150	95	51	61
11	30	7.7	e4.5	e4.1	e4.5	e5.8	e21	142	140	96	51	52
12	27	8.3	e4.1	e4.2	e4.2	e6.0	e25	142	136	85	62	59
13	25	11	e3.5	e3.8	e4.5	e6.4	e32	169	140	58	62	51
14	25	9.5	e3.6	e3.4	e4.0	e7.2	e27	146	128	53	82	40
15	29	e8.9	e4.0	e3.2	e4.3	e8.8	e25	127	126	56	80	36
16	28	e8.0	e4.3	e2.9	e4.5	e11	e25	127	119	51	80	22
17	27	e8.3	e4.5	e3.1	e4.6	e14	e23	151	134	56	86	21
18	26	e8.8	e4.3	e3.1	e4.6	e16	e22	177	122	54	84	19
19	23	e8.4	e4.4	e3.3	e5.4	e13	e23	202	113	52	80	17
20	17	e7.8	e4.4	e3.2	e6.2	e11	e26	216	113	44	83	17
21	17	e7.0	e4.2	e3.3	e6.2	e11	e35	341	115	44	49	19
22	20	e6.4	e4.3	e3.2	e6.2	e12	42	263	117	67	47	19
23	19	e5.8	e4.5	e3.1	e5.4	e14	65	219	116	67	44	23
24	17	e5.4	e4.6	e3.0	e4.6	e19	76	186	110	88	41	24
25	17	e4.8	e4.3	e3.2	e4.6	e30	62	189	102	93	42	23
26	20	e5.0	e4.1	e3.3	e4.8	e43	47	224	100	87	52	23
27	14	e5.4	e3.7	e3.4	e5.0	e48	43	247	99	69	52	28
28	11	e5.8	e3.5	e3.3	e6.0	e42	56	267	97	70	50	36
29	9.6	e5.6	e3.7	e3.2	---	e35	81	276	96	56	50	38
30	10	e5.4	e4.0	e3.0	---	e29	105	285	93	50	49	48
31	10	---	e4.2	e3.1	---	e25	---	262	---	30	49	---
TOTAL	687.6	231.8	131.7	110.2	125.7	466.0	1078	5683	4351	2231	1677	1141
MEAN	22.2	7.73	4.25	3.55	4.49	15.0	35.9	183	145	72.0	54.1	38.0
MAX	45	11	5.6	4.5	6.2	48	105	341	269	99	86	64
MIN	9.6	4.8	3.5	2.9	3.3	5.2	19	110	93	30	25	17
AC-FT	1360	460	261	219	249	924	2140	11270	8630	4430	3330	2260

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1998, BY WATER YEAR (WY)

MEAN	17.3	7.64	5.39	5.02	5.08	6.99	34.0	129	140	77.9	55.1	34.1
MAX	58.5	35.2	16.7	14.7	12.5	15.2	89.5	258	343	191	93.4	65.5
(WY)	1942	1942	1987	1987	1987	1972	1943	1952	1983	1983	1983	1983
MIN	6.25	1.64	1.26	.92	1.11	1.57	9.13	29.2	16.0	12.2	15.9	11.0
(WY)	1978	1990	1977	1977	1977	1977	1964	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1939 - 1998	
ANNUAL TOTAL	22657.2		17914.0			
ANNUAL MEAN	62.1		49.1		43.4	
HIGHEST ANNUAL MEAN					75.7	1983
LOWEST ANNUAL MEAN					10.6	1977
HIGHEST DAILY MEAN	371	Jun 9	341	May 21	695	Jun 16 1995
LOWEST DAILY MEAN	e,a3.4	Jan 15	e2.9	Jan 16	.80	Jan 15 1977
ANNUAL SEVEN-DAY MINIMUM	3.6	Jan 11	3.2	Jan 15	.89	Jan 9 1977
INSTANTANEOUS PEAK FLOW			488	May 21	892	Jun 15 1995
INSTANTANEOUS PEAK STAGE			3.15	May 21	b3.79	Jun 15 1995
ANNUAL RUNOFF (AC-FT)	44940		35530		31410	
10 PERCENT EXCEEDS	220		138		115	
50 PERCENT EXCEEDS	22		23		16	
90 PERCENT EXCEEDS	3.8		3.9		3.7	

e-Estimated.
a-Also occurred Jan 16.
b-Maximum gage height, 5.10 ft, Apr 13, 1958, ice jam.

09143500 SURFACE CREEK AT CEDAREDGE, CO

LOCATION.--Lat 38°54'06", long 107°55'14", in SW¼SE¼ 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 mi^2.

PERIOD OF RECORD.--October 1916 to current year. 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.--Records good except for estimated daily discharges, which are poor. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	16	5.8	e5.0	4.4	8.7	28	164	157	60	29	26
2	19	13	5.4	e5.2	4.5	7.0	29	174	162	57	26	29
3	50	13	4.8	e5.4	4.7	6.2	26	244	153	59	26	27
4	31	13	e5.0	e5.5	5.0	6.5	28	272	131	57	25	23
5	25	11	e4.4	e6.0	4.5	6.2	27	232	121	54	23	19
6	24	10	e4.2	e5.6	4.8	6.4	28	161	93	61	22	18
7	25	9.4	e4.7	e5.2	5.5	6.5	26	109	72	57	30	17
8	39	9.4	e5.2	e4.9	4.6	6.7	25	87	58	55	31	18
9	32	8.8	e5.6	e5.1	5.3	7.4	24	87	58	49	33	27
10	36	9.5	e5.6	e5.2	e5.7	7.2	23	136	61	52	27	24
11	40	11	e5.2	e5.5	e5.2	7.4	31	146	55	55	24	17
12	37	12	e4.8	e5.7	6.2	7.1	42	123	51	46	32	24
13	31	15	e4.3	e5.5	e5.0	7.4	34	157	50	44	33	19
14	27	14	e4.6	e4.0	5.1	9.6	32	134	45	43	31	8.7
15	23	11	e5.0	3.6	5.4	14	32	e100	44	47	27	6.4
16	21	10	e5.5	3.9	5.6	19	30	e115	37	44	26	6.6
17	21	11	e5.2	3.9	5.8	21	28	e130	48	44	29	5.5
18	22	9.7	e5.4	4.1	5.5	18	27	e140	45	42	28	3.9
19	22	8.7	e5.6	4.0	6.3	13	33	153	39	39	29	2.6
20	18	8.4	e5.4	4.3	7.4	14	33	162	48	34	30	2.3
21	20	6.9	e5.3	4.4	7.5	14	43	280	50	33	26	3.1
22	21	6.7	e5.4	e3.5	5.6	19	64	219	52	41	25	2.8
23	21	e6.4	e5.6	e3.8	5.4	28	100	150	53	41	24	5.1
24	21	e6.0	e5.4	4.1	5.5	41	110	132	54	43	21	5.4
25	20	5.9	e5.2	4.2	5.7	57	91	127	49	47	21	3.5
26	22	6.1	e4.8	4.6	6.0	61	67	147	49	43	27	2.6
27	17	7.2	e4.3	4.5	7.7	52	61	160	49	31	27	4.0
28	14	6.4	e4.6	4.5	10	41	79	194	54	29	23	17
29	15	6.5	e4.9	4.0	---	34	111	192	60	30	24	21
30	14	7.0	e5.3	4.4	---	32	155	194	59	28	23	35
31	14	---	e5.5	4.7	---	29	---	175	---	25	23	---
TOTAL	763	289.0	158.0	144.3	159.9	607.3	1467	4996	2057	1390	825	423.5
MEAN	24.6	9.63	5.10	4.65	5.71	19.6	48.9	161	68.6	44.8	26.6	14.1
MAX	50	16	5.8	6.0	10	61	155	280	162	61	33	35
MIN	14	5.9	4.2	3.5	4.4	6.2	23	87	37	25	21	2.3
AC-FT	1510	573	313	286	317	1200	2910	9910	4080	2760	1640	840

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 1998, BY WATER YEAR (WY)

MEAN	10.8	5.23	3.40	3.20	3.33	5.00	34.6	110	84.3	36.1	22.7	15.3
MAX	49.3	27.3	15.0	14.0	12.8	21.3	83.7	302	313	112	39.3	29.9
(WY)	1942	1942	1926	1987	1987	1986	1942	1920	1983	1983	1975	1982
MIN	2.00	.95	.50	.40	.40	.65	1.00	28.4	8.83	5.95	8.77	3.37
(WY)	1919	1922	1934	1940	1940	1954	1920	1977	1977	1977	1977	1934

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1918 - 1998	
ANNUAL TOTAL	14865.6		13280.0			
ANNUAL MEAN	40.7		36.4		27.9	
HIGHEST ANNUAL MEAN					62.5	1983
LOWEST ANNUAL MEAN					7.87	1977
HIGHEST DAILY MEAN	280	Jun 8	280	May 21	640	May 30 1920
LOWEST DAILY MEAN	1.3	Jan 2	2.3	Sep 20	a.00	Sep 25 1939
ANNUAL SEVEN-DAY MINIMUM	2.2	Jan 15	3.5	Sep 19	.11	Mar 12 1954
INSTANTANEOUS PEAK FLOW			504	May 3	b1190	May 13 1941
INSTANTANEOUS PEAK STAGE			2.72	May 3	c2.50	May 13 1941
ANNUAL RUNOFF (AC-FT)	29490		26340		20240	
10 PERCENT EXCEEDS	132		104		73	
50 PERCENT EXCEEDS	20		22		9.6	
90 PERCENT EXCEEDS	2.7		4.7		2.0	

e-Estimated.
a-No flow at times some years.
b-From rating curve extended above 640 ft^3/s.
c-Maximum gage height, 3.10 ft, May 21, 1993.

09144250 GUNNISON RIVER AT DELTA, CO

LOCATION (REVISED).--Lat 38°45'11", long 108°04'40", in NW¼NW¼ 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. Prior to Mar. 20, 1998, at site 0.7 mi upstream.

DRAINAGE AREA.--5,628 mi^2.

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.

GAGE (REVISED).--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.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, power developments, and many diversions for irrigation. Auxiliary 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2120	2210	2410	2730	1890	1700	1760	4960	4980	1940	1170	1020
2	2130	2380	2420	2770	1850	1730	1980	5010	4680	1900	1170	1080
3	2560	2460	2430	2780	1800	1760	1910	5690	4600	1840	1090	1070
4	2780	2450	2330	2800	1890	1700	1960	6080	4400	1800	1060	1040
5	2600	2380	2320	2800	1910	1530	1910	5880	4150	1790	1030	1020
6	2500	2350	2320	2760	1910	1540	1940	5430	3640	1750	1030	1040
7	2490	2330	2370	2600	1910	1560	1900	4970	3190	1670	1020	1040
8	2500	2330	2370	2300	1920	1450	1860	4680	2940	1660	990	1030
9	2360	2350	2330	2080	1940	1140	1770	4560	2740	1640	984	1040
10	2330	2360	2390	1980	1890	1160	1700	4770	2690	1820	1000	1040
11	2370	2380	2320	2000	1850	1400	1850	5390	2700	1930	1000	1070
12	2390	2560	2210	1970	1880	1440	2420	5170	2630	1930	1010	1300
13	2320	2450	2230	1900	1800	1480	2380	5170	2670	1860	969	1390
14	2280	2410	2260	1970	1830	1520	2520	5660	2700	1670	953	1320
15	2300	2590	2330	1930	1840	1570	2200	4850	2670	1510	924	1290
16	2320	2550	2440	1960	1830	1620	2080	4490	2580	1270	917	1310
17	2290	2570	2380	1960	1820	1670	1980	4540	2720	1180	890	1300
18	2270	2540	2400	1940	1800	1680	1840	4990	2710	e1100	883	1300
19	2210	2580	2450	1930	1740	1540	1720	5460	2410	e1000	929	1260
20	2160	2570	2590	1940	1730	1530	1760	5960	2470	e980	923	1230
21	2150	2550	2630	1880	1730	1530	1930	7020	2530	e920	942	1210
22	2120	2540	2680	1860	1740	1590	2480	7880	2580	e910	964	1200
23	2110	2500	2560	1910	1730	1750	3260	7300	2480	e900	940	1100
24	2300	2520	2630	1920	1680	2140	4100	6700	2380	e910	935	961
25	2280	2540	2660	1910	1770	2520	4500	6080	2150	e920	974	1010
26	2220	2560	2630	1890	1750	3260	3940	6010	2070	e980	988	994
27	2210	2580	2650	1890	1740	3220	3420	5680	2100	e1020	977	993
28	2200	2560	2680	1870	1710	3330	3570	5560	2140	e1040	1010	984
29	2200	2520	2800	1870	---	3020	3950	6130	2100	1200	1010	951
30	2160	2500	2770	1890	---	2060	4520	5980	1980	1240	996	982
31	2150	---	2750	1930	---	1920	---	5590	---	1160	975	---
TOTAL	71380	74170	76740	65920	50880	57060	75110	173640	86780	43440	30653	33575
MEAN	2303	2472	2475	2126	1817	1841	2504	5601	2893	1401	989	1119
MAX	2780	2590	2800	2800	1940	3330	4520	7880	4980	1940	1170	1390
MIN	2110	2210	2210	1860	1680	1140	1700	4490	1980	900	883	951
AC-FT	141600	147100	152200	130800	100900	113200	149000	344400	172100	86160	60800	66600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1998, BY WATER YEAR (WY)

MEAN	1397	1571	1653	1662	1709	2006	2606	4844	4365	2296	1169	1204
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 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1976 - 1998	
ANNUAL TOTAL	1184573		839348			
ANNUAL MEAN	3245		2300		2232	
HIGHEST ANNUAL MEAN					4670	1984
LOWEST ANNUAL MEAN					601	1990
HIGHEST DAILY MEAN	9720	Jun 9	7880	May 22	20300	Jun 7 1984
LOWEST DAILY MEAN	943	Jul 27	883	Aug 18	208	Aug 11 1977
ANNUAL SEVEN-DAY MINIMUM	1120	Jul 25	915	Aug 15	215	Aug 10 1977
INSTANTANEOUS PEAK FLOW			8500	May 22	25500	Jun 7 1984
INSTANTANEOUS PEAK STAGE			6.93	May 22	a13.15	Jun 7 1984
ANNUAL RUNOFF (AC-FT)	2350000		1665000		1617000	
10 PERCENT EXCEEDS	6730		4440		4440	
50 PERCENT EXCEEDS	2370		2000		1600	
90 PERCENT EXCEEDS	1470		1010		525	

e-Estimated.
a-At site 0.7 mi upstream, at datum 4.52 ft higher.

09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO

LOCATION.--Lat 38°11'02", long 107°44'43", in SW¼NE¼ 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.

DRAINAGE AREA.--149 mi^2.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,877.58 ft above sea level, (levels by U.S. Bureau of Reclamation).

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation upstream from station. Water is imported upstream from station in some years by Red Mountain ditch from Mineral Creek in San Juan River basin.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142	99	75	57	50	48	77	188	541	615	245	115
2	137	93	74	58	50	47	78	207	657	601	223	138
3	155	91	74	63	51	48	78	259	707	569	206	115
4	133	89	64	62	52	47	81	290	584	599	194	117
5	128	85	67	60	54	48	76	253	397	553	190	108
6	123	85	66	58	52	50	75	230	316	548	175	104
7	123	85	68	52	54	50	71	196	310	526	163	102
8	166	85	69	54	52	47	71	181	303	530	155	97
9	129	86	68	54	52	47	69	166	295	472	150	93
10	125	86	67	52	52	47	66	206	297	510	148	89
11	178	85	65	54	48	49	74	234	280	507	147	90
12	166	87	60	55	50	49	84	238	276	467	143	112
13	164	88	68	53	49	52	77	247	363	409	134	119
14	176	86	70	54	50	55	74	257	364	346	143	101
15	176	77	65	52	51	58	72	199	343	320	133	102
16	166	74	62	54	50	65	70	197	384	302	128	98
17	159	78	64	53	50	64	70	223	445	289	128	95
18	153	79	62	53	51	61	69	266	359	274	128	92
19	144	82	61	54	51	56	66	296	398	262	121	88
20	136	83	62	53	50	58	67	345	549	248	115	85
21	126	80	62	52	50	61	72	424	566	248	112	83
22	120	77	59	51	50	66	88	427	615	233	110	78
23	115	76	60	51	51	81	125	318	642	250	102	79
24	116	75	59	50	52	103	157	306	624	259	100	76
25	108	76	58	51	51	115	149	262	572	261	119	73
26	110	76	57	50	50	110	127	295	608	284	151	72
27	113	81	60	50	50	106	112	344	639	336	136	73
28	109	78	57	51	49	91	117	425	663	289	127	72
29	104	75	56	51	---	80	126	517	663	283	116	75
30	100	76	57	51	---	73	160	536	645	264	108	79
31	100	---	58	51	---	75	---	494	---	239	104	---
TOTAL	4200	2473	1974	1664	1422	2007	2698	9026	14405	11893	4454	2820
MEAN	135	82.4	63.7	53.7	50.8	64.7	89.9	291	480	384	144	94.0
MAX	178	99	75	63	54	115	160	536	707	615	245	138
MIN	100	74	56	50	48	47	66	166	276	233	100	72
AC-FT	8330	4910	3920	3300	2820	3980	5350	17900	28570	23590	8830	5590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1998, BY WATER YEAR (WY)

MEAN	89.2	67.9	52.0	44.5	45.5	59.9	112	326	599	342	160	108
MAX	153	94.4	67.3	61.5	61.5	102	188	765	914	848	313	250
(WY)	1985	1971	1971	1997	1995	1997	1985	1984	1984	1983	1995	1970
MIN	57.6	48.8	35.8	33.1	32.0	40.5	67.5	122	168	88.5	73.3	52.9
(WY)	1979	1990	1977	1977	1990	1964	1973	1977	1977	1977	1977	1959

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1959 - 1998	
ANNUAL TOTAL	86479		59036			
ANNUAL MEAN	237		162		167	
HIGHEST ANNUAL MEAN					270	1984
LOWEST ANNUAL MEAN					72.6	1977
HIGHEST DAILY MEAN	1340	Jun 2	707	Jun 3	1740	Jun 24 1983
LOWEST DAILY MEAN	e50	Mar 6	a47	Mar 2	26	Jan 13 1963
ANNUAL SEVEN-DAY MINIMUM	55	Mar 1	48	Mar 4	30	Feb 13 1990
INSTANTANEOUS PEAK FLOW			968	Jul 26	b2100	Jun 24 1983
INSTANTANEOUS PEAK STAGE			4.38	Jul 26	5.73	Jun 24 1983
ANNUAL RUNOFF (AC-FT)	171500		117100		121300	
10 PERCENT EXCEEDS	610		397		437	
50 PERCENT EXCEEDS	140		93		80	
90 PERCENT EXCEEDS	60		51		43	

e-Estimated.
a-Also occurred Mar 4, 8-10.
b-From rating curve extended above 1800 ft^3/s.

09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1995 to September 1998 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1996 to June 1998(discontinued).

INSTRUMENTATION.--Water temperature sensor and logger October 1996 to June 1998 (discontinued).

REMARKS.--Upper Colorado River Basin National Water Quality Assessment Program station (NAWQA). Available daily water temperature data are good. Data not published in October, January, and February, sensor washed up on bank or removed from stream; February, March, and April, sensor malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 19.3°C, Aug. 19-20, 22, Sept. 2, 5, 1997; minimum, 0.0°C, on many days during winter.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, not determined ; minimum, 0.0°C, on many days November to January.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT											
23...	1015	115	525	7.9	5.5	9.7	230	81	7.4	14	0.4
NOV											
18...	1315	81	671	7.8	6.0	10.1	310	100	12	21	0.5
DEC											
18...	1130	62	686	8.0	3.0	10.5	310	100	11	20	0.5
JAN											
23...	1210	50	774	8.1	3.0	10.6	350	120	14	27	0.6
FEB											
25...	1140	51	784	8.0	3.0	10.4	370	120	15	29	0.7
MAR											
09...	1430	49	793	8.4	9.0	9.8	350	120	15	29	0.7
APR											
22...	1540	76	618	8.4	15.5	8.6	280	94	10	20	0.5
28...	1320	113	508	8.2	12.0	8.1	210	72	7.6	13	0.4
MAY											
27...	1730	298	316	7.9	15.0	7.5	130	45	4.3	6.6	0.3
JUN											
02...	1600	574	260	8.0	14.0	8.1	110	39	3.4	5.2	0.2
11...	1215	286	405	8.0	11.0	8.8	180	61	6.9	10	0.3
JUL											
14...	1320	321	404	8.0	17.0	7.7	190	63	7.3	9.6	0.3
AUG											
25...	0840	120	605	8.2	12.0	8.4	270	88	12	19	0.5
31...	1330	103	620	8.3	17.0	7.7	270	90	12	17	0.5

09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)
OCT											
23...	1.3	67	--	55	200	2.9	0.5	9.1	376	346	0.51
NOV											
18...	1.9	105	--	86	260	4.0	0.5	10	490	463	0.67
DEC											
18...	2.0	107	--	88	270	4.9	0.6	10	510	474	0.69
JAN											
23...	2.2	127	--	104	290	5.9	0.6	11	563	535	0.77
FEB											
25...	2.4	123	--	101	310	6.3	0.6	11	579	557	0.79
MAR											
09...	2.6	127	5	112	300	7.0	0.6	11	577	547	0.78
APR											
22...	1.9	103	1	86	220	4.7	0.5	9.8	440	413	0.60
28...	1.4	91	--	75	170	3.1	0.4	8.6	354	322	0.48
MAY											
27...	1.1	55	--	45	95	1.4	0.2	7.1	209	189	0.28
JUN											
02...	1.0	56	--	46	70	1.1	0.2	6.5	165	155	0.22
11...	1.3	92	--	75	120	2.0	0.3	8.3	276	256	0.38
JUL											
14...	1.3	90	--	74	120	1.7	0.3	7.8	269	254	0.37
AUG											
25...	1.9	124	--	102	190	3.1	0.4	10	424	384	0.58
31...	1.7	134	--	110	190	3.0	0.4	10	432	392	0.59

DATE	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	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 DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)
OCT											
23...	117	<0.01	0.09	<0.02	<0.1	<0.1	0.01	<0.01	<0.01	0.5	0.2
NOV											
18...	107	<0.01	0.14	<0.02	0.1	<0.1	0.02	<0.01	0.01	0.6	0.2
DEC											
18...	85.4	<0.01	0.13	<0.02	<0.1	<0.1	0.01	<0.01	<0.01	0.4	0.2
JAN											
23...	76.8	<0.01	0.12	<0.02	0.1	<0.1	<0.01	<0.01	0.01	0.5	0.4
FEB											
25...	79.7	<0.01	0.13	0.05	0.1	<0.1	0.02	<0.01	0.02	0.8	0.3
MAR											
09...	76.3	0.01	0.11	0.03	0.1	<0.1	<0.01	<0.01	<0.01	0.8	0.3
APR											
22...	89.9	<0.01	0.10	0.04	<0.1	<0.1	0.03	0.02	<0.01	1.0	0.6
28...	108	<0.01	0.12	0.04	0.1	<0.1	0.01	<0.01	0.02	1.1	0.4
MAY											
27...	168	0.02	0.11	0.06	<0.1	<0.1	0.07	<0.01	<0.01	1.4	0.4
JUN											
02...	256	0.02	0.15	0.06	0.2	0.1	0.41	<0.01	0.02	1.3	1.2
11...	213	<0.01	0.12	0.04	0.1	<0.1	0.03	<0.01	<0.01	1.2	0.4
JUL											
14...	233	0.01	0.11	0.05	0.2	<0.1	0.03	0.03	0.02	1.1	0.4
AUG											
25...	137	<0.01	0.14	0.02	0.2	<0.1	0.06	<0.01	<0.01	1.1	0.8
31...	120	<0.01	0.11	0.014	0.1	<0.1	0.045	0.003	0.003	1.1	0.3

09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)
OCT									
23...	31	<1	<1	38	<1	<1	<1	3	5
NOV									
18...	34	<1	1	39	<1	<1	1	3	6
DEC									
18...	27	<1	1	40	<1	<1	<1	2	3
JAN									
23...	30	<1	2	39	<1	<1	2	2	4
FEB									
25...	33	<1	3	38	<1	<1	2	2	4
MAR									
09...	44	<1	4	40	<1	<1	2	<1	4
APR									
22...	82	<1	2	39	<1	<1	1	1	5
28...	58	<1	1	39	<1	<1	<1	1	5
MAY									
27...	100	<1	<1	34	<1	<1	<1	<1	6
JUN									
02...	92	<1	<1	29	<1	<1	<1	<1	4
11...	55	<1	<1	37	<1	<1	<1	<1	5
JUL									
14...	73	<1	<1	36	<1	<1	<1	<1	3
AUG									
25...	54	<1	2	45	<1	<1	<1	<1	5
31...	78	<1	1	43	<1	<1	2	<1	5

DATE	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DISSOLVED (UG/L AS U) (22703)
OCT									
23...	<3	<1	190	2	4	<1	<1	55	<1
NOV									
18...	<3	<1	170	2	3	<1	<1	44	<1
DEC									
18...	<10	<1	180	2	3	<1	<1	24	<1
JAN									
23...	<10	<1	170	2	2	<1	<1	28	<1
FEB									
25...	<10	<1	170	2	3	<1	<1	17	1
MAR									
09...	<10	<1	93	3	2	<1	<1	11	1
APR									
22...	<10	<1	130	2	2	<1	<1	7	<1
28...	<10	<1	160	2	2	<1	<1	25	<1
MAY									
27...	<10	<1	110	1	1	<1	<1	25	<1
JUN									
02...	<10	<1	63	1	<1	<1	<1	10	<1
11...	<10	<1	70	1	1	<1	<1	26	<1
JUL									
14...	<10	<1	72	2	1	<1	<1	15	<1
AUG									
25...	<10	<1	71	2	2	<1	<1	7	<1
31...	<10	<1	81	2	2	<1	<1	6	<1

09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO--Continued

(National Water-Quality Assessment Program station)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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				
06...	1300	125	591	13.0
23...	1035	115	525	5.5
NOV				
17...	1305	90	734	5.0
18...	1345	81	657	6.0
DEC				
31...	1330	58	715	4.0
JAN				
13...	1300	52	827	4.5
23...	1230	51	774	3.0
FEB				
17...	1300	48	848	7.0
25...	1210	49	784	3.0
MAR				
09...	1425	49	793	9.0
09...	1435	49	793	9.0
APR				
14...	1335	74	674	8.5
MAY				
19...	1305	255	326	9.5
JUN				
02...	1530	584	259	14.0
03...	1150	688	267	9.5
23...	1210	--	320	11.0
25...	1050	545	350	9.5
AUG				
24...	1305	97	655	18.5
31...	1140	103	620	17.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 0.062 MM (70331)	SAMPLER[b] TYPE (CODE) (84164)
OCT						
23...	1015	115	a21	6.5	--	3044
23...	1035	115	29	9.0	95	3044
NOV						
18...	1315	81	a27	5.9	--	3044
18...	1316	81	a28	6.1	--	3044
18...	1345	81	33	7.2	85	3044
DEC						
18...	1130	62	a21	3.5	--	3044
31...	1330	58	55	8.6	--	3044
JAN						
23...	1210	51	a14	1.8	--	3044
FEB						
25...	1140	51	19	2.5	--	3044
25...	1210	49	a17	2.2	--	3044
MAR						
09...	1425	49	25	3.3	92	3044
09...	1430	49	a14	1.8	--	3044
APR						
22...	1540	76	a18	3.7	--	3044
28...	1320	113	a21	6.3	--	3044
MAY						
27...	1730	298	a78	63	--	3044
JUN						
02...	1530	584	375	591	77	3009
02...	1600	574	a343	532	--	3039
02...	1601	574	a332	515	--	3039
11...	1215	286	a49	38	--	3044
JUL						
14...	1320	321	a70	61	--	3044
AUG						
25...	0840	120	a48	16	--	3044
31...	1330	103	a26	7.2	--	3044

a-Suspended-sediment concentration determined from a subsample split of a composite sample.
b-Code 3009 is a D-74 suspended-sediment sampler;Code 3039 is a D-77TM water-quality sampler; code 3044 ia s water-quality and suspended-sediment sampler.

09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE WATER, (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	9.8	3.8	6.5	5.3	2.7	3.9	4.9	.0	2.4
2	---	---	---	8.6	1.6	4.5	5.3	3.3	4.2	6.7	2.5	4.4
3	---	---	---	8.6	1.2	4.5	4.7	.5	2.5	6.3	3.6	4.6
4	---	---	---	9.7	2.0	5.4	3.8	.0	1.1	6.0	2.5	4.0
5	---	---	---	9.5	2.5	5.5	3.3	.0	1.2	4.9	1.9	3.0
6	---	---	---	10.0	2.4	5.7	5.0	.0	2.2	4.7	1.6	2.7
7	---	---	---	10.0	2.5	5.7	5.0	2.0	3.5	4.1	.0	1.5
8	---	---	---	9.1	3.3	5.7	5.2	2.5	3.7	4.6	.0	1.5
9	---	---	---	7.4	4.6	5.7	4.1	1.6	2.5	4.6	.0	1.6
10	---	---	---	7.2	4.2	5.6	3.5	1.2	2.3	4.9	1.7	2.9
11	---	---	---	8.0	4.7	6.0	4.2	.3	2.0	6.1	1.9	3.5
12	---	---	---	8.4	3.5	5.7	1.4	.1	.4	6.3	2.4	3.8
13	---	---	---	5.8	4.1	4.9	2.5	.1	.7	4.9	1.2	2.9
14	---	---	---	4.4	1.9	3.2	3.8	.1	1.2	6.1	1.2	3.4
15	---	---	---	5.7	.3	2.2	3.2	.1	1.5	3.8	.0	1.7
16	---	---	---	4.7	.0	1.7	3.8	.3	1.8	6.6	2.4	4.1
17	---	---	---	5.8	.1	2.7	3.9	.3	1.8	4.9	2.7	3.7
18	---	---	---	6.6	.8	3.2	5.0	1.2	2.8	6.4	1.6	3.7
19	---	---	---	7.8	2.7	4.7	5.2	1.0	2.5	3.9	1.1	2.5
20	---	---	---	5.8	3.8	4.7	4.1	.0	1.4	5.7	.6	2.6
21	---	---	---	4.7	2.0	3.5	4.1	.0	1.8	4.4	.0	1.2
22	---	---	---	6.3	1.2	3.4	5.2	2.1	3.3	2.0	.0	.7
23	---	---	---	6.1	.6	2.9	5.5	1.2	3.0	5.3	.4	2.4
24	7.8	3.7	5.6	7.2	.8	3.5	2.7	.0	1.2	5.7	.6	2.7
25	5.5	2.4	3.7	8.1	2.2	4.6	3.8	.5	1.9	---	---	---
26	8.6	.9	4.1	6.6	4.4	5.4	3.6	.0	1.0	---	---	---
27	9.5	1.6	4.7	7.4	4.5	5.6	.9	.0	.2	---	---	---
28	9.8	2.2	5.3	5.8	3.3	4.3	3.0	.0	.8	---	---	---
29	10.3	2.8	5.8	6.6	1.1	3.5	5.3	.8	2.5	---	---	---
30	11.4	4.7	7.2	6.6	1.2	3.4	5.0	.0	2.0	---	---	---
31	10.6	3.6	6.6	---	---	---	5.2	.0	2.1	---	---	---
MONTH	---	---	---	10.0	.0	4.5	5.5	.0	2.0	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	13.4	3.8	7.9
2	---	---	---	---	---	---	---	---	---	15.1	4.4	8.6
3	---	---	---	---	---	---	---	---	---	14.3	3.6	8.1
4	---	---	---	---	---	---	---	---	---	11.6	3.0	6.9
5	---	---	---	---	---	---	---	---	---	11.4	3.9	7.4
6	---	---	---	---	---	---	---	---	---	12.0	5.0	7.7
7	---	---	---	---	---	---	---	---	---	12.6	4.1	7.9
8	---	---	---	---	---	---	---	---	---	9.5	3.6	6.6
9	---	---	---	---	---	---	---	---	---	13.1	5.8	9.2
10	---	---	---	---	---	---	---	---	---	15.1	4.6	9.4
11	---	---	---	---	---	---	---	---	---	12.6	4.6	8.4
12	---	---	---	---	---	---	---	---	---	12.9	4.1	8.2
13	---	---	---	---	---	---	---	---	---	14.3	5.0	9.2
14	---	---	---	---	---	---	---	---	---	11.1	5.7	7.7
15	---	---	---	---	---	---	---	---	---	13.6	3.5	8.2
16	---	---	---	---	---	---	---	---	---	14.0	4.1	8.9
17	---	---	---	---	---	---	---	---	---	15.1	4.7	9.5
18	---	---	---	---	---	---	---	---	---	14.7	5.3	9.5
19	---	---	---	---	---	---	---	---	---	12.3	5.2	8.5
20	---	---	---	---	---	---	---	---	---	11.7	6.0	8.8
21	---	---	---	---	---	---	---	---	---	13.6	6.6	8.9
22	---	---	---	---	---	---	---	---	---	11.4	4.1	7.4
23	---	---	---	---	---	---	16.1	4.2	9.6	14.3	4.2	8.8
24	---	---	---	---	---	---	13.4	4.9	8.5	11.2	5.0	7.7
25	---	---	---	---	---	---	10.8	5.2	7.3	14.8	4.9	9.1
26	---	---	---	---	---	---	8.8	3.5	5.8	14.0	5.7	9.1
27	---	---	---	---	---	---	15.0	3.5	8.7	15.3	5.0	9.6
28	---	---	---	---	---	---	13.1	4.6	8.6	14.2	5.2	9.4
29	---	---	---	---	---	---	15.8	4.1	9.4	14.2	5.3	9.3
30	---	---	---	---	---	---	15.4	3.6	8.8	13.6	6.1	9.2
31	---	---	---	---	---	---	---	---	---	13.4	5.5	9.3
MONTH	---	---	---	---	---	---	---	---	---	15.3	3.0	8.5

09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO--Continued
(National Water-Quality Assessment Program station)

TEMPERATURE WATER, (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.3	6.1	10.1	---	---	---	---	---	---	---	---	---
2	14.7	5.3	9.5	---	---	---	---	---	---	---	---	---
3	13.1	6.0	9.1	---	---	---	---	---	---	---	---	---
4	10.0	5.7	7.7	---	---	---	---	---	---	---	---	---
5	12.5	6.4	9.0	---	---	---	---	---	---	---	---	---
6	12.8	6.0	9.5	---	---	---	---	---	---	---	---	---
7	13.4	7.2	10.1	---	---	---	---	---	---	---	---	---
8	14.7	6.1	9.9	---	---	---	---	---	---	---	---	---
9	15.6	6.6	10.5	---	---	---	---	---	---	---	---	---
10	13.1	6.9	9.9	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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 mi^2.

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 concrete control. 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 good 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	38	e27	e22	17	e17	40	99	2.5	52	56	28
2	54	37	e26	e21	18	e17	38	95	2.8	54	52	36
3	65	38	e24	e20	18	e17	41	92	9.6	59	51	34
4	55	37	e25	e20	19	e18	42	78	14	62	44	31
5	49	37	e24	e19	19	e19	39	55	15	62	41	29
6	48	36	e25	e19	20	23	38	51	10	75	36	28
7	48	35	e25	e20	20	21	36	42	8.5	71	34	27
8	58	35	e25	e20	20	21	35	36	7.5	172	32	27
9	49	36	e24	e19	20	22	35	33	7.5	143	33	25
10	47	35	e23	e20	20	22	34	29	6.8	170	36	23
11	47	35	e24	e19	19	22	45	25	5.4	180	34	23
12	48	36	e25	e20	21	22	62	19	3.9	138	29	37
13	45	36	e25	e20	21	23	48	14	2.9	112	27	36
14	47	36	e24	18	21	24	45	9.7	7.9	91	25	30
15	46	32	e23	21	20	27	44	7.7	9.5	65	24	27
16	45	e29	e24	18	19	29	41	7.4	7.9	59	23	29
17	45	e29	e23	17	19	29	40	3.9	11	63	20	29
18	44	e30	e23	17	19	26	43	2.9	11	63	22	28
19	43	e30	e23	18	19	24	45	2.0	10	61	21	31
20	44	e29	e24	16	18	23	46	3.1	12	54	18	32
21	43	e28	e22	e16	18	32	52	4.6	18	49	18	31
22	42	e28	e23	e17	20	35	70	3.0	25	52	19	29
23	42	e28	e23	e16	20	44	116	1.8	32	57	19	29
24	44	e29	e22	e16	20	49	161	1.8	31	67	22	28
25	43	e30	e23	e15	20	58	139	2.1	25	65	30	26
26	39	e29	e23	e16	18	63	80	2.4	28	59	35	22
27	40	e28	e22	e16	18	60	74	2.2	39	68	32	23
28	39	e28	e22	e16	e18	52	95	3.0	52	81	30	23
29	40	e28	e22	e17	---	42	103	3.8	62	76	27	22
30	39	e28	e22	e17	---	32	107	3.2	66	65	24	19
31	38	---	e22	17	---	39	---	2.4	---	58	24	---
TOTAL	1432	970	732	563	539	952	1834	735.0	543.7	2503	938	842
MEAN	46.2	32.3	23.6	18.2	19.3	30.7	61.1	23.7	18.1	80.7	30.3	28.1
MAX	65	38	27	22	21	63	161	99	66	180	56	37
MIN	38	28	22	15	17	17	34	1.8	2.5	49	18	19
AC-FT	2840	1920	1450	1120	1070	1890	3640	1460	1080	4960	1860	1670

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1998, BY WATER YEAR (WY)

MEAN	25.4	24.6	20.3	18.0	18.9	25.8	59.9	52.9	62.8	76.6	59.3	39.2
MAX	65.1	39.1	33.9	32.0	32.0	59.4	183	249	171	230	141	117
(WY)	1985	1926	1924	1924	1924	1985	1985	1984	1984	1983	1983	1927
MIN	2.07	14.4	13.4	9.61	11.9	14.8	4.13	.67	2.45	16.7	6.25	2.58
(WY)	1957	1957	1994	1980	1994	1980	1990	1981	1989	1959	1956	1956

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1922 - 1998	
ANNUAL TOTAL	24086		12583.7			
ANNUAL MEAN	66.0		34.5		40.2	
HIGHEST ANNUAL MEAN					86.4	1984
LOWEST ANNUAL MEAN					13.8	1990
HIGHEST DAILY MEAN	273	Jun 9	180	Jul 11	740	May 3 1924
LOWEST DAILY MEAN	e20	Jan 15	a1.8	May 23	.21	Jun 19 1981
ANNUAL SEVEN-DAY MINIMUM	21	Feb 8	2.3	May 22	.38	May 11 1981
INSTANTANEOUS PEAK FLOW			463	Jul 8	b1120	Aug 15 1923
INSTANTANEOUS PEAK STAGE			5.21	Jul 8	c4.40	Aug 15 1923
ANNUAL RUNOFF (AC-FT)	47770		24960		29090	
10 PERCENT EXCEEDS	119		62		92	
50 PERCENT EXCEEDS	60		28		25	
90 PERCENT EXCEEDS	23		13		12	

e-Estimated.
a-Also occurred May 24.
b-Maximum discharge observed, datum then in use, from rating curve extended above 160 ft^3/s.
c-Maximum gage height, 6.40 ft, May 10, 1984.

09147022 RIDGWAY RESERVOIR NEAR RIDGWAY, CO

LOCATION.--Lat 38°14'14", long 107°45'27", in NW¼SW¼ sec.16, T.46 N., R.8 W., Ouray County, Hydrologic Unit 14020006, in concrete gate house at base of Ridgway Reservoir on Uncompaghre River, 0.5 mi upstream from Fisher Creek, and 5.3 mi north of Ridgway.

DRAINAGE AREA.--265 mi^2.

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, 6834.93 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 82,430 acre-ft, July 12, elevation, 6,870.61 ft; minimum contents, 55,470 acre-ft, May 27, elevation, 6,841.97 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400 WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	6,854.99	66,950	-
Oct. 31	6,847.39	60,080	-6,870
Nov. 30	6,848.20	60,790	+710
Dec. 31	6,848.92	61,420	+630
CAL YR 1997	-	-	-13,710
Jan. 31	6,850.43	62,770	+1,350
Feb. 28	6,851.86	64,070	+1,300
Mar. 31	6,855.48	67,410	+3,340
Apr. 30	6,847.91	60,530	-6,880
May 31	6,843.51	56,760	-3,770
June 30	6,862.94	74,590	+17,830
July 31	6,870.27	82,070	+7,480
Aug. 31	6,863.74	75,390	-6,680
Sept. 30	6,862.47	74,130	-1,260
WTR YR 1998	-	-	+7,180

09147025 UNCOMPAHGRE RIVER BELOW RIDGWAY RESERVOIR, CO

LOCATION.--Lat 38°14'17", long 107°45'31", in NE¼SE¼ 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 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	409	178	77	71	40	40	40	444	309	171	399	214
2	385	174	77	71	41	40	40	442	248	174	399	214
3	350	174	78	71	41	40	40	443	228	215	374	182
4	331	174	78	71	40	40	40	445	229	235	322	162
5	331	153	76	71	40	40	40	446	230	235	298	162
6	329	118	76	71	41	40	40	446	231	235	296	166
7	327	118	75	70	40	40	54	446	231	272	297	166
8	312	118	76	68	40	40	203	446	231	360	297	166
9	302	118	77	52	39	40	326	446	231	491	292	168
10	302	118	77	41	39	40	326	446	231	567	291	170
11	302	119	76	42	39	40	326	446	231	589	291	170
12	302	101	77	41	39	40	326	446	231	614	277	170
13	302	79	76	41	39	40	336	445	231	622	269	170
14	302	79	76	41	39	40	347	445	231	579	285	170
15	302	79	75	41	39	40	345	446	231	483	300	170
16	302	79	73	39	40	40	345	446	219	430	301	170
17	302	79	73	39	41	40	345	446	201	425	302	170
18	302	79	73	38	40	40	345	446	173	425	302	153
19	302	79	73	39	40	40	345	446	183	423	309	121
20	302	75	73	40	40	40	345	436	199	396	314	119
21	302	80	73	39	40	40	345	418	199	363	314	128
22	302	80	73	38	40	40	345	415	179	339	314	162
23	302	78	73	38	40	40	345	410	166	332	314	160
24	302	77	73	38	40	40	376	409	166	332	303	159
25	302	78	73	38	40	40	405	408	166	332	296	159
26	302	78	73	38	40	40	405	406	167	332	266	159
27	302	78	72	38	40	40	429	368	170	340	249	155
28	301	78	71	39	40	40	446	345	170	393	242	155
29	296	77	71	38	---	40	446	345	170	441	235	155
30	239	77	71	38	---	40	446	345	170	439	235	155
31	184	---	71	39	---	40	---	345	---	415	222	---
TOTAL	9532	3072	2306	1479	1117	1240	8542	13112	6252	11999	9205	4900
MEAN	307	102	74.4	47.7	39.9	40.0	285	423	208	387	297	163
MAX	409	178	78	71	41	40	446	446	309	622	399	214
MIN	184	75	71	38	39	40	40	345	166	171	222	119
AC-FT	18910	6090	4570	2930	2220	2460	16940	26010	12400	23800	18260	9720

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1998, BY WATER YEAR (WY)

MEAN	117	84.4	75.1	60.5	61.9	98.5	286	341	399	426	339	189
MAX	307	108	105	76.5	93.9	179	560	510	606	846	535	439
(WY)	1998	1993	1993	1997	1997	1995	1997	1997	1997	1995	1992	1997
MIN	55.4	43.1	41.9	41.3	39.9	39.3	36.8	159	199	186	188	68.1
(WY)	1991	1990	1990	1992	1998	1990	1990	1989	1989	1989	1989	1993

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1989 - 1998	
ANNUAL TOTAL	120094		72756			
ANNUAL MEAN	329		199		207	
HIGHEST ANNUAL MEAN					311	1995
LOWEST ANNUAL MEAN					117	1989
HIGHEST DAILY MEAN	765	Jun 26	622	Jul 13	1080	Jul 11 1995
LOWEST DAILY MEAN	a52	Jan 1	b38	Jan 18	c34	Apr 21 1990
ANNUAL SEVEN-DAY MINIMUM	52	Jan 5	38	Jan 21	34	Apr 21 1990
INSTANTANEOUS PEAK FLOW			627	Jul 13	1160	Jun 13 1990
INSTANTANEOUS PEAK STAGE			3.00	Jul 13	d3.56	Jun 13 1990
ANNUAL RUNOFF (AC-FT)	238200		144300		150000	
10 PERCENT EXCEEDS	569		424		473	
50 PERCENT EXCEEDS	411		170		117	
90 PERCENT EXCEEDS	76		40		47	

a-Also occurred Jan 2, 5-14.
b-Also occurred Jan 22-27, 29, 30.
c-Also occurred Apr 22-24, 1990.
d-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 NW¼NW¼ 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 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	464	235	96	92	57	55	101	622	563	362	352	170
2	432	230	95	93	58	61	109	634	569	348	351	170
3	432	229	95	95	58	59	104	717	544	357	331	141
4	383	230	87	93	58	58	119	737	482	382	279	115
5	368	206	89	92	58	58	126	687	422	365	267	114
6	357	153	94	92	58	60	125	657	375	358	261	114
7	355	150	97	89	58	62	124	604	358	405	260	114
8	358	148	98	91	57	61	264	570	339	510	260	113
9	326	153	95	76	58	62	391	552	332	570	261	106
10	326	154	94	61	58	60	375	594	338	614	262	100
11	338	153	92	60	57	61	405	626	325	612	260	97
12	337	142	95	59	60	60	430	620	320	617	242	104
13	342	106	96	58	59	63	422	626	357	598	229	103
14	346	101	93	57	59	68	427	642	343	549	236	99
15	359	94	94	56	60	70	418	571	333	474	249	100
16	361	90	95	59	59	76	414	555	336	415	249	101
17	351	96	94	57	58	74	413	571	325	402	259	103
18	351	95	98	57	59	73	415	619	262	394	262	95
19	352	95	96	57	58	69	408	647	296	391	257	68
20	352	93	94	58	57	71	413	673	362	371	265	66
21	348	94	96	55	58	77	427	695	388	339	269	69
22	348	93	100	60	58	83	461	696	389	317	267	99
23	349	93	97	62	59	98	514	598	381	313	265	104
24	354	95	95	62	59	123	594	583	353	309	255	107
25	347	96	97	60	60	150	603	544	344	313	255	103
26	348	95	94	60	59	150	532	551	355	316	228	105
27	356	97	103	60	60	136	528	547	384	316	211	105
28	349	96	96	59	58	120	551	576	383	347	202	112
29	337	92	95	60	---	111	562	615	386	391	192	117
30	290	96	94	58	---	95	605	611	379	393	191	120
31	238	---	93	58	---	99	---	581	---	371	179	---
TOTAL	10954	3900	2947	2106	1635	2523	11380	19121	11323	12819	7906	3234
MEAN	353	130	95.1	67.9	58.4	81.4	379	617	377	414	255	108
MAX	464	235	103	95	60	150	605	737	569	617	352	170
MIN	238	90	87	55	57	55	101	544	262	309	179	66
AC-FT	21730	7740	5850	4180	3240	5000	22570	37930	22460	25430	15680	6410

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1998, BY WATER YEAR (WY)

MEAN	146	107	92.7	81.5	82.1	124	335	539	641	460	291	187
MAX	353	137	132	105	121	213	683	926	1066	1226	489	482
(WY)	1998	1986	1993	1986	1997	1997	1997	1987	1995	1995	1995	1997
MIN	51.6	50.2	53.0	51.4	51.0	58.2	62.6	160	229	207	135	52.3
(WY)	1990	1990	1990	1990	1990	1990	1990	1988	1989	1988	1988	1989

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1986 - 1998	
ANNUAL TOTAL	154422		89848			
ANNUAL MEAN	423		246		a258	
HIGHEST ANNUAL MEAN					396	1997
LOWEST ANNUAL MEAN					129	1989
HIGHEST DAILY MEAN	1470	Jun 24	737	May 4	1900	Jul 11 1995
LOWEST DAILY MEAN	b61	Jan 2	c55	Jan 21	d25	Apr 28 1990
ANNUAL SEVEN-DAY MINIMUM	62	Jan 1	57	Jan 15	29	Sep 24 1989
INSTANTANEOUS PEAK FLOW			886	May 3	f2230	Jul 12 1995
INSTANTANEOUS PEAK STAGE			3.52	May 3	4.76	Jul 12 1995
ANNUAL RUNOFF (AC-FT)	306300		178200		186700	
10 PERCENT EXCEEDS	864		562		612	
50 PERCENT EXCEEDS	424		170		129	
90 PERCENT EXCEEDS	94		59		62	

a-Average discharge for 76 years (water years 1904-1905, 1913-1986), 271 ft^3/s, 196,300 acre-ft/yr, prior to completion of Ridgway Reservoir.
b-Also occurred Jan 3 and 4 (estimated), and Jan 5.
c-Also occurred Mar 1.
d-Minimum daily discharge for period of record, 12 ft^3/s, Sep 19, 1956, and May 7, 1967.
f-Maximum discharge for period of record, 4080 ft^3/s, June 13-14, 1921, gage height unknown.

09149480 DRY CREEK AT BEGONIA ROAD, NEAR DELTA, CO
(National Water-Quality Assessment Program station)

LOCATION.--Lat 38°38'45", long 108°02'54", in SW¼NE¼ sec.36, T.51 N., R.11 W., Montrose County, Hydrologic Unit 14020006, on right bank 150 ft upstream from Begonia Road bridge over Dry Creek, 5.6 mi upstream from mouth, and 6.5 mi south of Delta.

DRAINAGE AREA.--175 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1995 to September 1998 (discontinued).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,220 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 diverted from Gunnison River mid-March through early November (see record of diversion through Gunnison Tunnel published with station 09128000), diversions for irrigation into Ironstone Canal upstream from station, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	66	38	25	23	18	112	163	49	17	59	37
2	164	59	38	26	21	18	138	199	37	17	51	30
3	172	32	38	27	22	19	161	238	33	13	50	27
4	159	36	36	29	22	19	126	281	33	11	43	30
5	158	48	34	29	22	19	102	266	32	12	34	48
6	152	56	35	29	22	19	90	224	24	14	26	65
7	141	67	37	28	22	20	88	185	25	14	21	65
8	149	64	36	29	21	19	110	160	25	18	21	62
9	148	72	35	29	21	19	97	148	23	17	21	60
10	147	76	34	29	20	19	88	147	21	18	28	63
11	146	67	33	29	19	17	73	163	19	23	29	82
12	157	53	e32	29	20	20	77	167	21	30	25	133
13	165	47	e31	28	20	26	84	172	22	25	25	125
14	108	44	32	28	21	38	61	180	20	19	23	146
15	110	40	31	26	21	42	87	179	20	17	21	143
16	108	38	31	29	21	59	84	141	21	16	21	159
17	109	38	30	27	19	84	108	130	19	17	21	174
18	107	39	30	26	19	110	104	144	20	16	25	181
19	106	39	30	26	19	98	95	157	20	15	26	182
20	95	38	29	26	19	80	81	170	16	15	26	171
21	83	38	29	24	18	83	47	171	17	17	26	165
22	68	37	29	24	18	82	43	183	16	17	25	183
23	66	36	28	24	18	86	65	155	16	18	23	186
24	70	37	28	23	18	100	147	139	18	37	23	186
25	79	38	28	23	19	97	220	123	21	30	35	187
26	80	39	27	22	18	120	169	111	18	33	47	188
27	82	41	e26	22	19	137	127	110	16	71	40	178
28	78	42	e25	22	18	132	117	91	16	84	46	168
29	72	39	e25	22	---	133	117	67	15	101	36	125
30	71	38	26	24	---	110	150	53	16	95	34	115
31	70	---	26	24	---	146	---	51	---	72	35	---
TOTAL	3577	1404	967	808	560	1989	3168	4868	669	919	966	3664
MEAN	115	46.8	31.2	26.1	20.0	64.2	106	157	22.3	29.6	31.2	122
MAX	172	76	38	29	23	146	220	281	49	101	59	188
MIN	66	32	25	22	18	17	43	51	15	11	21	27
AC-FT	7090	2780	1920	1600	1110	3950	6280	9660	1330	1820	1920	7270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1998, BY WATER YEAR (WY)

MEAN	161	56.5	34.6	27.0	23.8	57.3	94.6	138	46.0	23.4	43.8	143
MAX	217	61.5	38.5	30.7	26.3	77.8	123	211	95.2	29.6	76.4	182
(WY)	1997	1996	1997	1997	1997	1997	1997	1997	1997	1998	1997	1997
MIN	115	46.8	31.2	24.3	20.0	30.0	54.8	45.1	20.4	17.7	24.0	122
(WY)	1998	1998	1998	1996	1998	1996	1996	1996	1996	1996	1996	1998

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1996 - 1998	
ANNUAL TOTAL	31661		23559			
ANNUAL MEAN	86.7		64.5		70.9	
HIGHEST ANNUAL MEAN					97.1	1997
LOWEST ANNUAL MEAN					51.1	1996
HIGHEST DAILY MEAN	299	May 26	281	May 4	299	May 26 1997
LOWEST DAILY MEAN	a17	Jun 23	11	Jul 4	e9.0	Apr 6 1996
ANNUAL SEVEN-DAY MINIMUM	17	Jun 30	14	Jul 1	13	Jun 1 1996
INSTANTANEOUS PEAK FLOW			330	May 4	387	May 25 1997
INSTANTANEOUS PEAK STAGE			4.09	May 4	4.38	May 25 1997
ANNUAL RUNOFF (AC-FT)	62800		46730		51370	
10 PERCENT EXCEEDS	210		158		183	
50 PERCENT EXCEEDS	45		37		37	
90 PERCENT EXCEEDS	24		18		18	

e-Estimated.
a-Also occurred Jun 30 to Jul 4, and Jul 15.

09149480 DRY CREEK AT BEGONIA ROAD, NEAR DELTA, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1995 to September 1998 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1996 to September 1997.
WATER TEMPERATURE: October 1996 to September 1998 (discontinued).

INSTRUMENTATION.--Water-quality monitor with satellite telemetry October 1996 to September 1997. Water temperature sensor and logger October 1997 to September 1998 (discontinued).

REMARKS.--Upper Colorado River Basin National Water Quality Assessment station (NAWQA). Daily water-temperature data are good. Data not published are of unacceptable quality.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,630 microsiemens, Dec. 22, 1996; minimum, 327 microsiemens, May 7, 1997.
WATER TEMPERATURE: Maximum, 24.1°C, July 19, 1998; minimum, 0.0°C on several days during winter.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 24.1°C, July 19; minimum, 0.0°C on several days December to March .

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT												
09...	1330	154	773	8.4	11.0	9.6	380	110	25	27	0.6	2.0
NOV												
14...	1220	42	1410	8.6	7.0	11.4	690	190	50	62	1	3.3
DEC												
19...	1140	30	1430	8.4	2.5	12.9	670	180	54	62	1	2.6
JAN												
09...	1145	32	1400	8.5	0.0	13.0	650	170	53	57	1	2.5
FEB												
24...	1330	19	1410	8.4	8.0	10.2	680	170	59	67	1	3.1
MAR												
19...	0940	105	614	8.2	4.0	10.4	260	69	21	26	0.7	2.2
APR												
21...	1130	62	621	8.4	9.0	9.8	260	70	20	26	0.7	2.2
MAY												
21...	0830	183	520	8.2	11.0	9.1	230	65	15	19	0.5	2.0
29...	1230	76	776	8.2	15.5	8.1	350	100	22	29	0.7	2.3
JUN												
04...	1035	34	989	8.2	12.0	8.8	460	140	29	39	0.8	2.6
19...	1140	21	1180	8.4	17.0	8.4	550	160	37	50	0.9	3.5
JUL												
16...	1330	17	1220	8.3	21.5	7.4	600	180	38	52	0.9	2.3
29...	1220	96	982	8.1	18.5	7.8	450	130	29	36	0.7	2.5
AUG												
24...	0935	22	1320	8.3	17.0	9.6	630	180	43	56	1	2.2
SEP												
02...	0930	39	1310	8.1	15.0	8.8	630	190	39	50	0.9	2.4

09149480 DRY CREEK AT BEGONIA ROAD, NEAR DELTA, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	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)
OCT												
09...	150	4	129	250	3.8	0.6	15	552	518	0.75	230	<0.01
NOV												
14...	233	6	201	550	8.1	1.0	19	1070	1030	1.46	122	0.02
DEC												
19...	293	12	260	570	8.7	1.1	18	1140	1070	1.55	92.2	0.03
JAN												
09...	306	6	261	530	8.3	1.1	19	1090	1020	1.48	94.0	0.03
FEB												
24...	240	10	213	550	8.6	1.0	17	1070	1030	1.46	53.9	0.04
MAR												
19...	162	--	133	180	3.8	0.3	13	428	402	0.58	121	<0.01
APR												
21...	151	--	124	190	4.5	0.4	10	424	396	0.58	71.0	<0.01
MAY												
21...	115	--	94	160	3.1	0.3	11	359	337	0.49	177	0.02
29...	145	--	119	260	4.0	0.6	14	570	517	0.78	117	0.03
JUN												
04...	200	--	164	350	5.4	0.6	16	748	691	1.02	68.9	0.04
19...	228	12	207	430	7.8	0.8	17	938	849	1.28	53.2	0.04
JUL												
16...	271	--	222	430	7.7	0.9	19	938	883	1.28	43.6	0.03
29...	244	--	200	320	4.8	0.7	17	730	679	0.99	189	0.02
AUG												
24...	299	--	245	470	7.2	1.0	20	1010	952	1.37	59.2	0.02
SEP												
02...	268	2	224	480	6.7	0.9	21	1030	942	1.40	110	0.02

DATE	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)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)
OCT												
09...	1.6	<0.01	0.3	<0.2	0.05	<0.01	<0.01	2.5	1.2	<3	20	2
NOV												
14...	5.2	0.02	0.4	0.4	0.03	0.01	<0.01	3.4	0.3	11	52	4
DEC												
19...	5.8	<0.02	0.2	0.2	<0.01	<0.01	<0.01	2.4	0.2	<10	63	6
JAN												
09...	5.5	<0.02	0.5	0.3	0.03	<0.01	0.01	2.5	0.9	<10	78	5
FEB												
24...	5.1	0.09	0.4	0.3	0.02	<0.01	0.02	2.7	0.3	<10	94	6
MAR												
19...	1.1	0.10	1.2	0.5	0.21	<0.01	0.01	2.8	0.7	<10	49	2
APR												
21...	0.65	0.06	0.5	0.2	0.12	0.04	0.02	3.2	1.6	<10	19	3
MAY												
21...	1.2	0.09	1.0	0.5	0.23	0.06	0.03	5.7	2.2	11	18	--
29...	1.9	0.03	1.0	0.3	0.25	0.03	0.05	4.6	1.4	<10	29	4
JUN												
04...	3.3	0.04	0.6	0.4	0.14	0.01	0.05	4.3	1.3	<10	45	4
19...	4.6	0.10	0.8	0.5	0.16	0.09	0.09	4.3	1.1	<10	53	6
JUL												
16...	5.4	0.09	0.6	0.3	0.12	<0.01	0.03	3.6	1.4	<10	43	8
29...	3.2	0.13	1.8	1.2	0.58	0.03	0.02	3.4	4.1	<10	46	3
AUG												
24...	6.1	0.18	0.8	0.5	0.06	0.02	0.02	3.8	0.7	<10	47	--
SEP												
02...	5.0	0.03	0.6	0.3	0.06	<0.01	0.02	3.6	0.8	<10	46	5

09149480 DRY CREEK AT BEGONIA ROAD, NEAR DELTA, CO--Continued
(National Water-Quality Assessment Program station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)[a]	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT				
09...	1330	154	56	23
NOV				
14...	1220	42	4	0.45
DEC				
19...	1140	30	6	0.49
JAN				
09...	1145	32	35	3.0
FEB				
24...	1330	19	31	1.6
MAR				
19...	0940	105	246	70
APR				
21...	1130	62	115	19
MAY				
21...	0830	183	392	194
21...	0831	183	393	194
21...	0840	183	381	188
21...	0841	183	386	191
29...	1230	76	300	61
JUN				
04...	1035	34	109	10
19...	1140	21	62	3.5
JUL				
16...	1330	17	131	6.1
29...	1220	96	444	115
AUG				
24...	0935	22	40	2.3
SEP				
02...	0930	39	67	7.1

a-Suspended-sediment concentrations were determined from a subsample split of a composite sample.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.5	12.9	14.7	10.1	7.3	8.6	5.9	3.9	4.9	---	---	---
2	16.5	13.6	15.0	8.7	5.3	7.0	5.9	5.1	5.4	---	---	---
3	16.6	14.3	15.4	8.5	4.5	6.7	5.1	2.9	4.1	---	---	---
4	16.0	12.6	14.4	8.8	5.1	7.2	3.5	.4	2.0	---	---	---
5	16.0	12.2	14.1	9.3	5.6	7.5	3.4	.0	1.6	---	---	---
6	16.1	12.3	14.3	9.3	5.6	7.6	4.0	.7	2.3	---	---	---
7	15.0	12.4	13.6	9.3	5.7	7.6	4.6	2.8	3.7	---	---	---
8	12.7	11.2	11.9	9.4	6.0	7.8	5.6	3.7	4.4	---	---	---
9	13.2	9.3	11.4	8.8	7.8	8.1	4.6	3.1	3.7	---	---	---
10	14.7	10.5	12.6	8.1	7.0	7.5	3.5	1.5	2.6	3.3	1.5	2.4
11	13.8	11.5	12.7	8.8	6.8	7.8	---	---	---	5.7	2.7	3.9
12	11.5	8.8	10.2	9.1	6.8	8.0	---	---	---	6.3	3.3	4.5
13	10.5	7.4	9.0	8.5	6.8	7.6	---	---	---	4.0	2.4	3.1
14	11.5	7.3	9.4	7.1	3.7	6.0	---	---	---	4.6	1.8	3.0
15	12.1	8.1	10.1	5.1	2.1	3.6	---	---	---	3.5	.5	2.0
16	12.6	8.5	10.6	4.8	1.8	3.3	---	---	---	5.2	2.4	3.7
17	12.9	8.8	10.9	5.9	2.8	4.1	---	---	---	5.1	3.2	4.0
18	12.7	8.8	10.9	6.0	2.9	4.5	---	---	---	5.2	1.5	3.4
19	12.7	8.7	10.8	7.3	4.2	5.7	---	---	---	5.1	1.6	3.4
20	12.4	9.3	10.8	7.4	5.3	6.4	---	---	---	4.4	1.6	3.1
21	12.4	8.5	10.5	6.0	4.0	5.0	---	---	---	3.3	.0	1.5
22	12.1	8.1	10.2	6.4	3.4	4.7	---	---	---	1.0	.0	.4
23	10.4	7.8	9.3	5.9	2.8	4.3	---	---	---	3.8	.0	1.8
24	9.3	6.4	8.3	5.9	2.3	4.2	---	---	---	4.4	.5	2.3
25	7.4	5.3	6.3	6.7	3.7	5.0	---	---	---	4.7	.3	2.5
26	8.7	4.9	6.7	7.4	5.3	6.3	---	---	---	4.6	.2	2.4
27	9.1	5.3	7.2	7.8	6.0	6.9	---	---	---	3.8	.2	2.0
28	9.9	5.9	7.9	6.7	5.4	6.1	---	---	---	4.4	.0	2.0
29	10.4	6.4	8.4	7.1	4.5	5.6	---	---	---	4.4	.0	2.1
30	11.2	7.8	9.4	6.2	3.1	4.7	---	---	---	6.0	1.8	3.9
31	11.0	7.1	9.2	---	---	---	---	---	---	6.1	3.7	4.6
MONTH	16.6	4.9	10.8	10.1	1.8	6.2	---	---	---	---	---	---

09149480 DRY CREEK AT BEGONIA ROAD, NEAR DELTA, CO--Continued
(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	5.5	1.9	3.7	5.1	.0	2.1	9.7	4.1	7.0	11.6	7.5	9.7
2	3.8	2.1	3.0	5.8	.2	3.2	7.8	5.1	6.1	12.3	7.5	9.9
3	6.6	2.4	4.5	8.0	2.7	5.2	8.6	4.4	6.5	12.0	7.2	9.9
4	5.5	3.3	4.6	6.3	3.0	4.7	10.5	5.2	7.7	11.4	6.9	9.4
5	6.8	3.7	5.0	7.8	2.6	5.2	11.4	5.5	8.4	10.8	7.4	9.3
6	7.4	3.3	5.5	9.2	4.3	6.4	9.7	6.5	7.8	10.1	7.4	9.0
7	7.7	4.7	6.0	6.1	2.1	4.1	8.8	4.0	6.5	11.9	6.5	9.0
8	5.7	3.8	4.6	6.3	.0	3.1	9.5	5.1	6.9	10.2	7.5	9.0
9	7.1	3.2	4.8	8.2	1.3	4.5	9.5	4.3	6.9	12.8	7.2	9.9
10	6.1	1.8	3.9	8.2	1.1	4.7	11.9	4.7	8.2	13.4	8.3	10.7
11	3.3	.8	2.2	8.5	1.9	5.2	13.3	6.1	9.7	12.6	8.5	10.7
12	6.3	1.8	3.6	9.7	1.9	5.9	10.0	7.1	8.9	12.3	8.3	10.1
13	4.1	.5	2.6	10.3	3.3	7.0	10.5	6.9	8.5	13.6	8.6	11.0
14	6.3	2.4	4.3	11.2	4.6	8.0	9.9	6.5	7.9	11.6	8.4	9.5
15	6.6	4.0	5.2	12.0	5.5	8.7	8.5	5.8	7.1	12.3	6.3	9.1
16	6.9	3.0	4.9	11.1	5.8	8.6	7.5	4.9	6.3	13.3	7.8	10.5
17	6.1	4.0	5.0	10.6	6.3	8.7	9.1	5.2	7.0	14.0	8.8	11.3
18	7.4	2.9	4.8	8.7	4.7	6.0	10.6	5.5	7.8	14.2	9.4	11.8
19	7.7	2.7	4.9	8.2	3.5	5.7	10.5	4.9	7.8	14.2	10.2	11.9
20	6.6	1.9	4.2	9.1	4.1	6.7	13.3	6.8	9.7	14.2	10.2	12.0
21	6.6	1.5	4.1	10.0	4.6	7.5	14.2	6.6	10.1	14.8	10.3	12.3
22	7.1	2.9	4.9	10.6	5.7	8.4	14.5	7.1	10.6	12.6	9.2	11.0
23	6.5	3.7	5.1	12.2	6.9	9.8	14.3	8.0	11.1	14.6	8.8	11.6
24	8.6	3.3	5.8	12.8	7.4	10.2	11.9	8.9	10.4	13.3	9.9	11.5
25	6.5	3.5	4.9	13.1	7.8	10.3	10.2	6.7	8.2	16.1	8.9	12.4
26	6.0	.7	3.4	10.2	7.5	8.8	7.7	5.1	6.4	15.9	10.8	13.1
27	5.8	.5	3.0	9.7	6.9	8.2	11.9	5.1	8.3	17.2	10.6	13.7
28	4.7	.0	2.1	8.9	6.1	7.6	12.2	7.1	9.7	18.1	10.8	14.2
29	---	---	---	8.6	5.1	6.7	12.6	6.8	9.7	18.5	11.6	14.6
30	---	---	---	8.2	3.0	5.6	12.5	7.1	9.8	18.0	12.2	14.5
31	---	---	---	9.5	4.1	6.5	---	---	---	17.3	10.5	13.6
MONTH	8.6	.0	4.3	13.1	.0	6.6	14.5	4.0	8.2	18.5	6.3	11.2
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.9	10.9	14.6	22.7	13.1	17.3	19.6	15.4	17.3	18.9	15.4	16.6
2	19.8	11.4	15.1	22.0	13.1	17.1	20.9	13.7	17.0	20.2	14.5	16.9
3	19.6	11.7	15.0	20.5	14.2	17.0	21.4	14.5	17.6	20.5	14.3	17.1
4	13.4	10.8	12.1	23.7	15.1	18.4	21.7	14.5	17.8	21.0	15.1	17.7
5	18.0	10.2	13.6	23.2	14.5	18.0	22.2	14.8	18.0	20.4	15.4	17.8
6	17.2	10.3	13.7	23.0	15.6	18.3	22.2	14.3	17.7	20.4	15.6	17.8
7	18.3	11.1	14.2	19.8	14.8	16.6	22.5	14.2	17.9	20.2	15.4	17.7
8	16.5	10.5	13.4	22.4	13.6	17.4	21.5	14.6	17.7	18.8	15.7	17.2
9	17.6	11.2	14.0	20.5	14.8	16.9	21.9	15.1	17.9	18.8	15.3	17.0
10	16.1	11.1	13.4	19.6	15.1	16.9	18.6	15.7	16.7	18.9	15.0	16.8
11	16.1	10.2	13.3	21.4	14.2	17.2	21.7	15.1	17.7	18.3	15.3	16.7
12	19.6	10.8	14.8	21.7	14.2	17.7	21.7	14.5	17.6	17.3	15.4	16.4
13	18.5	12.5	15.0	22.2	14.5	18.1	21.2	14.5	17.5	18.5	14.0	16.1
14	18.1	12.0	14.7	22.2	14.6	18.1	22.5	14.6	18.0	18.0	13.9	16.0
15	20.1	10.6	15.0	23.0	14.8	18.4	22.5	14.8	18.3	17.8	14.0	15.9
16	17.0	12.6	14.5	22.9	15.1	18.2	21.9	14.6	17.8	17.2	13.6	15.4
17	17.0	11.1	13.5	22.9	14.3	17.9	20.7	15.3	17.7	17.3	13.3	15.3
18	19.8	11.4	15.0	22.9	14.3	18.0	20.9	15.4	17.5	16.7	13.4	15.1
19	21.0	11.9	15.9	24.1	14.8	18.7	21.0	14.5	17.2	17.0	13.6	15.2
20	19.6	11.7	15.6	23.4	14.8	18.5	20.9	14.5	17.2	15.6	12.6	14.1
21	20.5	12.8	15.9	23.6	15.6	18.8	18.9	15.9	17.0	16.1	12.6	14.1
22	22.0	11.6	16.1	22.9	16.1	18.4	22.2	15.0	17.9	15.4	12.2	13.9
23	21.4	11.7	15.8	22.4	15.6	18.0	22.2	15.0	18.1	16.4	13.1	14.6
24	18.9	11.4	14.7	20.5	16.1	17.9	20.1	15.9	17.3	16.4	13.1	14.6
25	21.0	11.1	15.4	21.4	16.5	18.3	19.3	15.1	16.7	15.9	12.6	14.3
26	21.5	12.3	16.1	21.4	15.3	18.0	20.5	15.7	17.8	15.7	12.6	14.0
27	22.2	12.2	16.5	20.4	16.2	17.9	20.2	16.1	17.7	15.4	11.7	13.5
28	22.7	12.6	17.2	19.1	16.2	17.4	19.9	14.5	17.0	15.4	12.2	13.7
29	23.7	13.1	17.9	20.2	15.4	17.7	20.7	14.6	17.4	15.7	12.8	14.2
30	22.7	13.1	17.5	20.1	15.4	17.6	20.7	14.6	17.4	16.7	12.9	14.7
31	---	---	---	20.4	15.7	17.8	19.1	14.8	16.6	---	---	---
MONTH	23.7	10.2	15.0	24.1	13.1	17.8	22.5	13.7	17.5	21.0	11.7	15.7

09149500 UNCOMPAHGRE RIVER AT DELTA, CO

LOCATION.--Lat 38°44'31", long 108°04'49", in SW¼SW¼ 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.

DRAINAGE AREA.--1,115 mi^2.

PERIOD OF RECORD.--April 1903 to October 1931 (no winter records in most years), September 1938 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "near Delta" 1907-24. Statistical summary computed for 1939 to current year.

REVISED RECORDS.--WSP 1243: 1904. WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,926.49 ft above sea level. Feb. 18, 1960 to Mar. 26, 1963, water-stage recorder at site 750 ft upstream at datum 3.43 ft higher. Mar. 27, 1963 to May 12, 1965, water-stage recorder at site 1,050 ft upstream at datum 6.08 ft higher. See WSP 1733 or 1924 for history of changes prior to Feb. 18, 1960.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by water diverted from Gunnison River (see record of diversion through Gunnison tunnel published with station 09128000) and other adjacent basins, diversions for irrigation of about 90,000 acres upstream from station, 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	887	557	249	202	163	138	279	481	340	146	337	266
2	807	413	248	203	159	144	306	494	276	135	310	319
3	934	378	247	210	165	148	306	601	243	122	282	323
4	817	409	231	215	166	146	303	767	245	155	234	287
5	776	421	225	212	166	148	320	653	256	169	183	305
6	793	375	238	207	163	148	281	504	220	183	164	313
7	821	363	253	197	162	155	290	490	193	167	157	324
8	878	363	265	196	160	144	359	378	186	236	154	313
9	807	371	255	197	156	143	589	338	160	294	148	298
10	797	373	249	178	152	132	576	349	162	478	160	304
11	807	371	242	174	149	125	560	485	178	558	174	339
12	840	395	219	173	152	117	678	467	182	615	154	541
13	869	331	227	167	148	115	627	444	185	576	160	594
14	925	315	242	166	153	115	555	434	208	484	154	566
15	952	299	248	156	153	120	498	431	216	325	169	583
16	926	283	243	169	152	115	508	329	221	221	179	557
17	901	290	234	164	150	188	494	299	236	184	175	548
18	893	295	231	163	149	381	510	336	248	172	182	587
19	892	292	225	165	148	370	478	366	200	174	199	590
20	883	288	223	167	147	372	436	416	179	162	185	536
21	850	280	220	155	147	371	380	469	211	155	183	515
22	843	273	228	150	148	373	337	503	220	152	227	515
23	867	261	222	164	147	321	349	398	178	172	218	565
24	883	261	218	158	150	282	572	372	161	191	186	563
25	909	264	214	160	150	495	815	355	169	255	229	487
26	860	267	204	155	147	548	591	296	162	263	337	449
27	796	273	197	155	149	536	392	298	161	351	284	445
28	780	265	218	155	142	495	371	270	177	346	286	461
29	759	252	229	155	---	477	382	318	148	419	285	459
30	755	248	214	162	---	410	423	332	140	414	274	511
31	653	---	209	168	---	351	---	335	---	367	255	---
TOTAL	26160	9826	7167	5418	4293	8123	13565	13008	6061	8641	6624	13463
MEAN	844	328	231	175	153	262	452	420	202	279	214	449
MAX	952	557	265	215	166	548	815	767	340	615	337	594
MIN	653	248	197	150	142	115	279	270	140	122	148	266
AC-FT	51890	19490	14220	10750	8520	16110	26910	25800	12020	17140	13140	26700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1998, BY WATER YEAR (WY)

MEAN	403	251	164	137	132	163	314	513	568	323	286	385
MAX	844	373	269	220	222	367	1107	2542	1763	1170	808	944
(WY)	1998	1959	1994	1982	1997	1997	1985	1984	1984	1983	1943	1961
MIN	131	125	111	70.9	66.5	80.7	78.6	125	136	112	93.7	123
(WY)	1978	1950	1943	1943	1943	1951	1967	1954	1954	1955	1956	1956

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1939 - 1998	
ANNUAL TOTAL	180836		122349			
ANNUAL MEAN	495		335		304	
HIGHEST ANNUAL MEAN					688	1984
LOWEST ANNUAL MEAN					155	1951
HIGHEST DAILY MEAN	1710	May 26	952	Oct 15	4520	May 15 1984
LOWEST DAILY MEAN	177	Jan 15	a115	Mar 13	b20	Dec 26 1962
ANNUAL SEVEN-DAY MINIMUM	186	Jan 9	120	Mar 10	42	Mar 14 1959
INSTANTANEOUS PEAK FLOW			1110	Apr 25	c5800	May 15 1984
INSTANTANEOUS PEAK STAGE			5.27	Apr 25	8.85	May 15 1984
ANNUAL RUNOFF (AC-FT)	358700		242700		220100	
10 PERCENT EXCEEDS	928		620		603	
50 PERCENT EXCEEDS	378		265		204	
90 PERCENT EXCEEDS	215		151		108	

a-Also occurred Mar 14, 16.
b-Minimum daily discharge for period of record, no flow at times in 1908. Minimum daily determined since beginning of diversion through Gunnison tunnel, 7.0 ft^3/s, Jul 10-15, 17, 21, 24-28, 1910.
c-From rating curve extended above 3400 ft^3/s.

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO

LOCATION.--Lat 38°59'00", long 108°27'00", in NE¼SW¼ 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 mi^2.

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 ft^3/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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3700	2920	2810	2800	2150	1980	2510	6480	6080	2260	1830	1560
2	3600	2940	2800	2820	2120	2030	2610	6740	5520	2170	1850	1700
3	3880	2960	2780	2830	2060	2060	2690	7540	5250	2070	1790	1720
4	3770	2960	2720	2870	2120	2040	2670	8160	4970	2040	1610	1670
5	3470	2940	2670	2860	2160	1860	2630	7950	4810	2120	1540	1620
6	3330	2870	2700	2830	2170	1820	2610	7130	4290	2150	1450	1660
7	3290	2830	2750	2770	2160	1860	2640	6500	3730	2100	1450	1680
8	3500	2810	2760	2550	2180	1820	2680	6030	3390	2150	1430	1660
9	3490	2820	2740	2410	2190	1590	2740	5710	3240	2130	1400	1660
10	3370	2850	2730	2290	2160	1330	2750	5870	3040	2360	1410	1640
11	3390	2850	2700	2250	2140	1610	2730	6730	3060	2570	1440	1710
12	3420	3160	2610	2220	2140	1720	3200	6740	2990	2460	1440	2000
13	3410	2970	2560	2140	2130	1740	3370	6550	2870	2380	1390	2330
14	3400	2840	2610	2150	2110	1770	3330	6770	2980	2150	1370	2210
15	3380	2890	2670	2140	2140	1820	3170	6150	2960	1900	e1330	2220
16	3410	2880	2770	2150	2130	1880	3010	5570	2880	1710	e1290	2170
17	3360	2900	2740	2190	2120	2000	2920	5490	2910	1590	e1270	2140
18	3330	2900	2730	2170	2110	2200	2820	6000	3110	1520	1250	2160
19	3280	2920	2740	2160	2070	2270	2690	6590	2670	1470	1300	2180
20	3250	2910	2790	2180	2040	2180	2650	7210	2460	1440	1340	2100
21	3210	2890	2850	2140	2040	2180	2670	8390	2640	1360	1330	2080
22	3180	2880	2890	2080	2060	2220	3030	e9360	2770	1320	1430	2030
23	3170	2840	2810	2120	2070	2320	3770	e8590	2700	1330	1440	2060
24	3310	2840	2830	2160	2020	2550	5110	e7880	2600	1430	1420	1880
25	3360	2860	2840	2150	2030	3070	5880	e7190	2480	1670	1450	1850
26	3280	2890	2790	2140	2090	3870	5460	e7040	2340	1800	1610	1790
27	3210	2920	2750	2130	2040	4060	4640	6790	2340	1870	1570	1770
28	3170	2930	2700	2110	2010	4030	4500	6680	2400	1840	1530	1750
29	3140	2880	2840	2110	---	3780	4980	7000	2390	2000	1560	1680
30	3100	2850	2820	2130	---	3080	5730	7060	2320	2040	1560	1700
31	3010	---	2810	2150	---	2690	---	6620	---	1920	1550	---
TOTAL	104170	86900	85310	72200	58960	71430	102190	214510	98190	59320	45630	56380
MEAN	3360	2897	2752	2329	2106	2304	3406	6920	3273	1914	1472	1879
MAX	3880	3160	2890	2870	2190	4060	5880	9360	6080	2570	1850	2330
MIN	3010	2810	2560	2080	2010	1330	2510	5490	2320	1320	1250	1560
AC-FT	206600	172400	169200	143200	116900	141700	202700	425500	194800	117700	90510	111800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1897 - 1998, BY WATER YEAR (WY)

MEAN	1453	1449	1349	1268	1272	1464	3133	7558	7163	2573	1374	1358
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 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1897 - 1998	
ANNUAL TOTAL	1504320		1055190			
ANNUAL MEAN	4121		2891		2621	
HIGHEST ANNUAL MEAN					5187	1984
LOWEST ANNUAL MEAN					838	1934
HIGHEST DAILY MEAN	12000	May 26	e9360	May 22	35200	May 23 1920
LOWEST DAILY MEAN	a1860	Jan 1	1250	Aug 18	106	Jul 20 1934
ANNUAL SEVEN-DAY MINIMUM	1910	Jan 5	1300	Aug 15	116	Jul 14 1934
INSTANTANEOUS PEAK FLOW			10600	May 22	b35700	May 23 1920
INSTANTANEOUS PEAK STAGE			8.91	May 22	14.95	May 23 1920
ANNUAL RUNOFF (AC-FT)	2984000		2093000		1899000	
10 PERCENT EXCEEDS	8310		5330		6270	
50 PERCENT EXCEEDS	3080		2630		1360	
90 PERCENT EXCEEDS	2270		1590		700	

e-Estimated.
a-Also occurred Jan 2 and 8.
b-Site and datum then in use, from rating curve extended above 22000 ft^3/s.

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO--Continued

(National Water-Quality Assessment Program station)
(Irrigation network station)

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 specific-conductance data are good except for Oct. 3 to Dec. 26, and Jan. 2-9, which are fair, and Dec. 27 to Jan. 1, which are poor. Specific-conductance record deleted Oct. 1-3, probe buried; record missing May 22-26; and Aug. 15-18 due to equipment malfunction. Daily maximum and minimum specific-conductance data previous to water year 1995 are available in the district office. Daily water temperature data are good.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 3,000 microsiemens several days during July and Sept. 1974; minimum, 194 microsiemens June 6, 1979.
WATER TEMPERATURE: Maximum, 30.0°C Aug. 13, 1958; minimum, 0.0°C on many days during winter months most years.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1870 microsiemens July 26; minimum recorded, 279 microsiemens May 5, but may have been lower during equipment malfunction May 22-26.
WATER TEMPERATURE: Maximum, 25.3°C, July 19; minimum, 0.0°C Dec 28.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT												
20...	1115	3200	652	8.7	11.5	8.7	260	68	22	33	0.9	2.2
NOV												
07...	1220	2780	649	8.9	8.5	12.0	270	73	23	35	0.9	2.6
DEC												
15...	1345	2660	585	8.6	3.0	11.8	230	59	21	31	0.9	2.3
JAN												
08...	1030	2600	519	8.5	2.0	11.1	210	53	19	28	0.8	2.1
FEB												
11...	1000	2100	612	8.4	3.0	11.5	250	61	23	36	1	2.3
MAR												
12...	0930	1740	645	8.5	4.5	10.7	250	60	24	37	1	2.5
APR												
08...	1350	2700	613	8.3	9.5	9.4	250	62	23	37	1	2.6
MAY												
04...	1245	8860	302	8.2	10.5	9.2	120	31	8.9	13	0.5	2.1
18...	1300	6670	367	8.1	12.0	8.7	140	40	11	16	0.6	1.8
JUN												
03...	1000	5120	397	8.2	14.5	8.1	160	41	13	19	0.6	1.6
11...	0940	3030	590	8.3	13.5	8.3	240	64	20	30	0.8	2.3
JUL												
09...	1010	2030	841	8.3	20.0	7.2	360	94	30	47	1	2.8
AUG												
11...	1130	1450	1040	8.4	19.5	8.0	420	110	36	54	1	3.5
SEP												
11...	1310	1710	1040	8.4	19.0	7.5	430	110	36	57	1	3.4

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO.--Continued

(National Water-Quality Assessment Program station)
(Irrigation network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	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)
OCT												
20...	103	4	90	210	4.8	0.3	12	464	415	0.63	4010	<0.01
NOV												
07...	115	5	102	210	4.8	0.3	12	460	424	0.63	3450	0.06
DEC												
15...	120	1	100	190	5.2	0.3	12	411	379	0.56	2950	<0.01
JAN												
08...	105	4	92	150	4.2	0.3	13	357	331	0.49	2510	<0.01
FEB												
11...	138	2	117	190	5.2	0.3	13	425	404	0.58	2450	<0.01
MAR												
12...	142	5	124	200	6.2	0.3	11	446	421	0.61	2100	0.01
APR												
08...	152	--	125	190	5.9	0.2	12	423	406	0.58	3030	0.01
MAY												
04...	98	--	80	60	1.9	<0.1	10	201	177	0.27	4810	<0.01
18...	94	--	77	90	2.5	0.2	11	247	220	0.34	4450	0.01
JUN												
03...	100	--	82	110	2.5	0.2	12	248	251	0.34	3430	0.02
11...	131	--	107	190	4.3	0.3	14	425	389	0.58	3480	0.01
JUL												
09...	163	--	134	300	6.4	0.4	14	617	585	0.84	3390	<0.01
AUG												
11...	168	4	144	370	7.5	0.5	13	770	687	1.05	3010	0.01
SEP												
11...	168	7	150	390	7.3	0.5	14	786	714	1.07	3620	0.01

DATE	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)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)
OCT												
20...	0.54	0.04	0.3	<0.2	0.03	<0.01	<0.01	2.6	0.4	4	4	4
NOV												
07...	0.71	--	0.2	<0.1	0.03	<0.01	0.02	2.8	0.4	15	15	3
DEC												
15...	0.58	<0.02	0.2	0.1	<0.01	<0.01	0.01	2.6	--	<10	14	3
JAN												
08...	0.46	<0.02	0.2	0.1	0.03	0.03	0.02	2.4	0.3	<10	15	3
FEB												
11...	0.49	<0.02	0.2	0.1	0.02	<0.01	0.01	2.4	0.4	<10	19	3
MAR												
12...	0.33	<0.02	0.2	0.1	0.01	<0.01	0.01	2.4	0.5	<10	24	4
APR												
08...	0.37	0.03	0.6	0.2	0.20	0.01	0.03	3.3	0.9	<10	19	3
MAY												
04...	0.24	0.04	0.6	0.3	0.14	<0.01	0.02	5.1	13	19	12	--
18...	0.32	0.05	0.3	0.2	0.21	0.01	<0.01	4.3	2.2	11	5	1
JUN												
03...	0.35	<0.02	0.5	0.2	0.14	<0.01	0.02	3.5	0.9	<10	8	2
11...	0.70	0.07	0.5	0.2	0.12	<0.01	0.01	3.4	1.4	<10	5	3
JUL												
09...	1.6	0.06	0.6	0.3	0.11	0.03	0.02	3.5	1.0	<10	9	5
AUG												
11...	1.3	0.08	0.6	0.2	0.08	<0.01	0.02	3.6	0.9	<10	7	4
SEP												
11...	1.4	<0.02	0.5	0.3	0.08	<0.01	0.01	3.3	0.4	<10	11	7

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO.--Continued

(National Water-Quality Assessment Program station)

(Irrigation network station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDIMENT, SUSPENDED (MG/L) (80154) [a]	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 0.062 MM (70331)	SAMPLER TYPE (CODE) (84164) [b]
OCT						
20...	1115	3200	50	432	--	3039
20...	1145	3240	66	577	80	3009
NOV						
07...	1220	2780	11	83	--	3039
07...	1240	2830	15	115	--	3009
DEC						
15...	1345	2660	7	50	--	3039
15...	1420	2680	9	65	--	3009
JAN						
08...	1030	2600	48	337	--	3039
08...	1115	2600	10	70	--	3009
FEB						
11...	1000	2130	9	53	--	3039
11...	1030	2130	13	74	--	3009
MAR						
12...	0930	1740	8	37	--	3039
12...	1000	1730	11	52	--	3009
APR						
08...	1350	2660	224	1610	--	3039
08...	1410	2660	310	2220	90	3009
MAY						
04...	1145	9200	1490	37000	72	3009
04...	1245	8860	1480	35300	--	3039
18...	1300	6670	358	6440	--	3039
18...	1320	6670	358	6450	62	3009
JUN						
03...	1000	5120	174	2400	--	3039
03...	1001	5120	167	2300	--	3039
03...	1040	5170	219	3060	68	3009
11...	0920	2960	104	831	84	3009
11...	0940	3030	98	801	--	3039
JUL						
09...	0940	2030	129	708	--	3009
09...	1010	2030	142	779	--	3039
AUG						
11...	1110	1450	75	293	--	3009
11...	1130	1450	54	211	--	3039
SEP						
11...	1240	1710	276	1270	--	3009
11...	1310	1710	148	683	--	3039
11...	1311	1710	154	710	--	3039

a-Suspended-sediment concentrations associated with sampler type coded 3039 were determined from a subsample split of a composite sample.
b-Code 3009 is a D-74 suspended-sediment sampler; Code 3039 is a D-77TM water-quality sampler.

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO--Continued

(National Water-Quality Assessment Program station)

(Irrigation network station)

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	686	680	684	601	583	590	545	516	528
2	---	---	---	687	652	668	608	599	603	549	524	533
3	---	---	---	655	642	648	603	593	597	560	535	544
4	887	733	835	658	642	649	599	588	592	583	555	564
5	733	696	710	657	647	652	596	556	577	583	571	576
6	697	688	692	649	641	646	606	562	583	583	578	581
7	691	683	687	652	642	648	611	584	599	581	557	564
8	714	677	686	657	649	652	611	599	603	590	536	564
9	715	685	702	664	651	656	634	608	617	617	555	582
10	686	676	682	666	657	661	633	605	616	642	567	606
11	679	664	672	673	660	665	605	575	586	653	616	631
12	672	656	663	765	663	689	575	549	564	638	630	634
13	658	649	655	805	742	782	579	524	554	648	627	636
14	656	645	650	742	686	713	590	550	572	651	642	648
15	654	644	648	686	627	660	586	560	574	642	618	629
16	649	634	640	627	608	614	585	567	577	629	604	618
17	647	633	640	615	592	604	581	551	568	657	629	641
18	650	640	645	631	610	617	585	554	570	633	620	626
19	653	640	647	626	609	615	581	570	575	632	621	626
20	652	647	649	617	607	612	575	560	569	639	626	631
21	660	642	651	612	601	608	560	521	543	645	623	632
22	651	640	646	605	595	600	566	528	546	633	586	608
23	653	646	649	600	587	592	555	538	548	619	565	598
24	693	646	658	592	582	587	552	532	545	626	598	613
25	718	693	704	595	577	587	552	526	540	617	580	597
26	696	684	690	597	589	593	547	526	536	617	585	598
27	687	671	679	617	593	603	541	499	521	607	575	591
28	681	672	677	629	617	624	530	424	503	607	575	591
29	682	671	677	620	598	607	550	506	527	599	577	586
30	684	672	678	598	583	590	536	524	531	600	575	587
31	686	675	681	---	---	---	540	515	526	615	592	602
MONTH	---	---	---	805	577	638	634	424	566	657	516	599
		FEBRUARY			MARCH			APRIL			MAY	
1	616	600	606	592	564	578	598	571	586	364	321	341
2	618	594	607	588	563	579	632	585	607	346	315	330
3	619	598	606	609	569	592	661	606	625	338	297	319
4	620	607	615	597	582	589	693	647	665	335	285	305
5	623	607	612	624	584	594	698	665	682	312	279	295
6	630	623	626	633	623	628	665	618	638	312	292	304
7	634	620	629	643	622	630	618	592	601	352	312	332
8	624	619	622	658	643	653	641	594	619	358	345	350
9	629	622	625	667	629	643	647	628	635	375	353	363
10	634	626	631	768	667	718	638	629	633	378	349	364
11	632	600	614	803	665	756	631	619	625	367	316	343
12	607	580	592	667	625	640	629	558	604	341	321	331
13	601	586	594	640	615	626	558	522	534	345	331	337
14	601	578	591	635	613	624	544	533	537	345	312	331
15	609	590	602	641	611	623	566	536	549	373	326	347
16	613	601	606	628	609	617	585	562	577	386	373	377
17	613	605	609	643	602	617	584	574	579	389	374	383
18	609	601	605	718	611	659	598	578	585	386	346	368
19	606	593	598	664	621	634	606	598	601	361	320	341
20	605	592	598	659	623	638	621	606	615	336	319	327
21	600	586	592	732	628	669	618	591	602	329	310	317
22	600	591	596	662	633	653	591	541	571	314	---	---
23	604	591	598	637	622	630	541	444	493	---	---	---
24	616	598	603	679	588	613	444	381	409	---	---	---
25	623	615	619	624	543	578	385	366	376	---	---	---
26	620	606	612	543	462	507	396	370	380	---	---	---
27	613	589	598	493	460	475	427	396	407	371	352	360
28	597	585	590	484	461	473	432	411	422	359	351	354
29	---	---	---	524	463	485	424	381	405	367	342	353
30	---	---	---	560	522	533	397	345	370	351	342	346
31	---	---	---	600	560	590	---	---	---	376	351	363
MONTH	634	578	607	803	460	608	698	345	551	---	---	---

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO--Continued

(National Water-Quality Assessment Program station)

(Irrigation network station)

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	408	372	390	668	631	652	1010	991	1000	1120	1090	1110
2	416	404	410	668	628	649	1030	1010	1020	1130	1060	1100
3	417	403	411	679	648	664	1040	1010	1030	1140	1110	1130
4	448	407	424	700	665	679	1040	1010	1020	1120	1080	1100
5	504	446	471	740	696	718	1040	1010	1030	1100	1080	1090
6	536	503	515	763	730	743	1030	1000	1020	1100	1080	1090
7	584	536	554	785	763	778	1030	1000	1010	1080	1070	1080
8	606	584	590	824	781	793	1030	1010	1020	1080	1050	1070
9	614	586	598	855	824	840	1030	997	1020	1080	1060	1070
10	618	598	608	1170	839	869	1020	999	1010	1080	1060	1070
11	632	610	616	1170	839	897	1040	1000	1020	1070	1060	1060
12	645	621	629	869	841	852	1100	1010	1040	1080	1040	1060
13	654	645	650	859	835	847	1080	1030	1050	1260	1050	1170
14	654	628	635	868	846	854	1060	1020	1040	1250	1130	1210
15	671	639	651	890	866	878	---	---	---	1130	1060	1090
16	684	661	669	915	890	909	---	---	---	1060	1030	1040
17	701	678	687	948	913	938	---	---	---	1030	1020	1020
18	706	676	687	963	935	951	1020	994	1010	1020	1000	1010
19	729	675	696	978	939	958	1050	1040	1040	1010	996	1010
20	742	718	730	976	945	966	1070	1050	1060	1000	982	994
21	742	687	707	985	954	974	1090	1060	1070	990	983	987
22	707	691	700	987	961	975	1090	1060	1080	992	975	983
23	705	650	670	1150	881	1020	1110	1070	1090	987	970	977
24	667	625	642	1060	938	1010	1100	1070	1090	1060	974	1010
25	679	633	652	1030	984	1010	1110	1090	1100	1070	1050	1060
26	684	661	671	1870	993	1130	1120	1090	1110	1060	1020	1040
27	686	641	661	1120	987	1070	1150	1110	1130	1040	1020	1030
28	669	634	652	1090	906	1070	1130	1100	1120	1040	1010	1030
29	676	650	659	1140	990	1060	1150	1090	1110	1030	1000	1020
30	677	638	654	1070	1020	1050	1110	1080	1100	1060	1010	1040
31	---	---	---	1020	984	1000	1110	1090	1100	---	---	---
MONTH	742	372	610	1870	628	897	---	---	---	1260	970	1060

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.5	14.9	15.5	9.2	8.0	8.5	5.8	5.0	5.4	2.8	1.5	2.1
2	16.5	15.2	15.8	8.1	6.7	7.5	5.9	5.4	5.6	3.0	1.8	2.4
3	16.9	15.5	16.1	7.2	6.2	6.6	5.5	4.5	4.9	4.1	2.6	3.4
4	16.3	15.3	15.8	7.5	6.1	6.6	4.5	3.4	4.1	4.7	3.9	4.2
5	15.9	14.7	15.2	7.9	6.6	7.0	3.7	2.8	3.2	4.1	3.6	3.8
6	15.9	14.5	15.1	8.1	6.6	7.2	3.8	2.7	3.2	3.6	2.8	3.2
7	15.3	14.0	14.7	8.1	6.9	7.3	4.2	3.3	3.8	3.2	2.2	2.7
8	14.0	12.5	13.4	7.9	7.0	7.3	5.2	4.0	4.6	2.6	1.5	2.1
9	12.7	11.5	12.1	7.7	7.0	7.4	5.0	4.0	4.7	2.5	1.1	1.7
10	13.8	11.9	12.7	7.4	6.9	7.1	4.0	2.7	3.3	2.5	1.5	2.0
11	13.9	12.9	13.3	7.6	7.0	7.2	2.7	1.9	2.3	3.4	2.2	2.8
12	12.9	10.4	11.7	8.0	7.2	7.5	2.6	1.4	1.9	4.3	3.3	3.7
13	10.4	9.3	9.9	7.7	7.0	7.3	2.3	1.1	1.6	3.9	3.1	3.6
14	10.8	9.3	9.9	7.0	5.3	6.5	2.8	1.4	2.0	3.5	2.3	2.9
15	11.3	9.8	10.4	5.3	4.0	4.6	2.7	1.8	2.2	2.8	2.1	2.5
16	11.8	10.3	10.9	4.6	4.0	4.3	3.0	1.7	2.3	3.2	1.9	2.6
17	12.1	10.6	11.2	5.2	3.9	4.5	3.2	2.2	2.6	4.1	3.0	3.5
18	12.2	10.8	11.4	5.9	4.7	5.2	3.0	2.1	2.5	4.3	2.8	3.5
19	12.1	10.8	11.3	6.4	5.3	5.7	3.3	2.1	2.6	4.5	2.9	3.6
20	12.0	10.9	11.3	6.9	6.0	6.3	3.3	2.1	2.6	3.9	2.3	3.0
21	11.9	10.5	11.1	6.1	5.5	5.8	2.7	1.9	2.2	3.1	1.9	2.4
22	11.6	10.4	10.9	6.0	4.9	5.4	3.4	1.9	2.6	2.0	.7	1.3
23	10.6	9.6	10.2	6.0	4.9	5.4	3.3	2.2	2.7	2.2	.2	1.1
24	9.6	8.2	9.0	5.9	4.7	5.1	2.7	1.8	2.2	3.3	1.5	2.3
25	8.2	6.3	7.1	6.1	4.9	5.4	2.7	1.6	2.1	3.6	1.6	2.6
26	7.7	6.1	6.8	6.9	5.5	6.2	2.4	1.4	1.8	3.7	1.9	2.7
27	8.5	7.0	7.7	6.9	6.5	6.7	1.4	.1	.9	3.3	1.7	2.5
28	9.0	7.5	8.1	7.2	6.2	6.6	.7	.0	.3	3.2	1.3	2.2
29	9.4	8.1	8.7	6.8	5.5	6.0	2.3	.5	1.5	3.4	1.5	2.4
30	9.9	8.4	9.0	6.2	5.0	5.6	2.8	1.8	2.1	4.1	2.0	3.0
31	9.7	8.6	9.0	---	---	---	2.7	1.6	2.0	4.6	3.2	3.8
MONTH	16.9	6.1	11.5	9.2	3.9	6.3	5.9	.0	2.8	4.7	.2	2.8

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO--Continued

(National Water-Quality Assessment Program station)

(Irrigation network station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.5	2.8	3.6	3.6	1.5	2.6	8.4	5.9	7.2	10.6	9.8	10.1
2	3.7	2.7	3.2	4.7	1.6	3.1	7.4	6.5	7.1	10.9	9.8	10.4
3	3.4	2.1	2.9	5.8	3.2	4.6	7.6	5.7	6.7	10.8	10.2	10.5
4	4.3	3.1	3.7	5.9	4.4	5.2	9.5	6.6	8.1	10.5	9.5	10.1
5	4.7	3.5	4.1	5.9	3.8	4.8	10.3	8.1	9.1	10.2	9.6	9.9
6	5.7	4.0	4.8	7.0	4.5	5.5	10.0	8.7	9.2	9.8	8.9	9.4
7	5.5	4.7	5.0	6.0	3.1	4.8	8.8	7.1	8.1	10.0	8.9	9.4
8	4.8	4.2	4.5	3.9	1.4	2.8	9.4	7.1	7.9	10.5	9.3	9.9
9	4.7	3.6	4.1	5.8	2.4	4.0	9.4	7.2	8.2	10.7	9.1	9.9
10	4.8	3.1	3.9	6.5	3.5	5.0	10.4	7.6	8.8	11.9	10.5	11.2
11	3.6	2.4	3.0	7.0	4.4	5.7	11.7	8.5	10.0	11.6	10.6	11.1
12	4.0	1.7	2.7	7.5	4.1	5.8	10.4	9.1	10.0	10.8	10.1	10.5
13	3.7	2.4	3.0	8.4	4.9	6.6	9.7	8.5	9.1	11.7	9.8	10.7
14	3.9	2.4	3.2	9.3	5.6	7.4	9.1	7.9	8.3	11.4	9.7	10.9
15	4.9	3.8	4.3	9.8	6.4	8.1	8.2	7.4	7.9	9.9	8.4	9.2
16	5.3	3.8	4.5	9.8	6.8	8.3	8.3	7.0	7.5	11.7	9.8	10.8
17	4.9	4.2	4.6	9.5	7.1	8.3	9.2	6.9	7.9	12.2	10.4	11.3
18	5.3	3.7	4.4	8.3	5.7	6.7	9.5	7.5	8.3	12.1	11.2	11.7
19	5.4	3.2	4.3	6.6	4.6	5.6	10.1	7.8	8.9	12.5	11.4	12.0
20	5.4	3.4	4.3	7.9	4.6	6.2	11.3	8.1	9.7	12.3	10.9	11.6
21	5.1	2.9	4.0	9.3	6.0	7.5	12.5	9.6	10.9	12.2	11.2	11.7
22	5.1	3.5	4.4	9.9	7.1	8.4	12.3	9.9	11.0	---	---	---
23	5.6	4.5	4.9	11.4	8.2	9.7	12.0	10.5	11.2	---	---	---
24	5.9	4.4	5.1	12.1	9.3	10.6	11.5	10.1	10.9	---	---	---
25	5.5	4.1	4.9	11.1	9.3	10.2	10.1	8.8	9.4	---	---	---
26	4.7	3.0	3.8	9.9	8.1	9.2	8.9	7.7	8.5	13.0	---	---
27	4.4	2.7	3.4	8.6	7.4	8.0	9.0	6.9	8.0	13.3	11.6	12.4
28	4.2	1.9	2.9	8.1	7.0	7.5	11.0	8.9	9.9	14.0	12.4	13.1
29	---	---	---	7.0	5.8	6.4	11.2	9.3	10.1	14.0	12.8	13.3
30	---	---	---	6.0	5.2	5.6	11.0	9.8	10.3	14.5	12.9	13.5
31	---	---	---	7.1	4.9	5.9	---	---	---	13.7	12.8	13.2
MONTH	5.9	1.7	4.0	12.1	1.4	6.5	12.5	5.7	8.9	---	---	---
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.8	12.4	13.5	21.6	18.9	20.3	22.5	19.8	21.1	20.0	18.2	19.2
2	15.7	13.4	14.4	22.0	18.6	20.3	21.9	18.6	20.4	21.0	17.6	19.2
3	15.7	13.7	14.6	21.8	19.4	20.5	22.4	18.8	20.6	22.0	18.4	20.2
4	14.3	11.8	13.2	22.6	19.5	20.9	22.4	19.0	20.7	22.1	19.1	20.6
5	13.6	10.9	12.1	23.1	20.1	21.5	23.2	19.2	21.2	22.1	19.3	20.8
6	14.2	12.9	13.5	22.9	20.4	21.7	23.5	19.8	21.7	22.6	19.6	21.1
7	15.4	13.1	14.1	22.1	20.6	21.3	23.4	19.9	21.8	22.7	19.8	21.2
8	15.2	14.0	14.6	21.4	18.7	20.1	22.6	20.1	21.6	21.6	19.9	20.8
9	15.3	13.7	14.4	21.1	19.1	20.0	23.2	20.0	21.5	20.9	18.9	20.0
10	15.0	14.1	14.4	21.2	17.3	20.1	21.7	19.8	20.6	19.9	18.4	19.1
11	14.3	13.2	13.9	21.1	17.3	19.4	21.6	18.2	20.0	20.1	18.3	19.1
12	16.6	13.5	14.9	21.9	18.3	20.0	22.6	18.9	20.7	19.0	17.7	18.4
13	17.2	15.0	16.0	22.7	19.5	20.9	23.0	19.4	21.2	19.0	17.1	18.1
14	16.7	15.0	15.8	23.4	19.7	21.4	22.8	19.3	21.2	19.3	16.9	18.1
15	16.5	13.9	15.2	24.2	19.9	22.0	---	---	---	19.4	17.1	18.2
16	17.5	15.2	16.1	24.4	20.5	22.5	---	---	---	19.6	17.1	18.1
17	15.9	12.7	13.8	24.6	20.8	22.8	---	---	---	19.3	16.7	18.0
18	16.2	12.4	14.2	24.8	21.0	22.9	21.0	19.1	20.2	18.7	16.5	17.6
19	18.4	14.8	16.4	25.3	21.4	23.4	22.6	19.2	20.8	18.8	16.2	17.4
20	18.1	16.2	17.2	25.2	21.9	23.6	21.6	19.6	20.7	17.9	15.3	16.6
21	17.8	16.0	16.9	25.0	22.0	23.5	21.1	19.6	20.3	16.9	15.1	16.0
22	18.9	16.1	17.3	24.5	22.3	23.3	22.1	19.3	20.8	16.7	14.2	15.4
23	19.1	16.8	17.7	23.4	21.7	22.5	22.7	19.7	21.3	16.7	15.0	15.8
24	18.7	16.3	17.4	23.1	21.3	22.2	22.2	20.3	21.2	18.4	15.4	16.8
25	18.4	15.6	17.1	22.6	20.7	21.6	20.8	19.4	20.1	17.9	15.7	16.8
26	19.8	16.3	17.9	22.8	19.8	21.2	21.6	18.8	20.1	17.2	14.7	16.0
27	20.4	17.1	18.7	23.7	20.8	22.2	23.0	19.3	21.1	16.9	14.4	15.7
28	20.9	17.6	19.2	22.6	20.5	21.3	22.4	19.1	20.9	16.9	13.9	15.4
29	21.4	18.1	19.7	23.0	19.7	21.2	22.1	18.9	20.6	17.6	14.9	16.2
30	21.8	18.8	20.2	22.8	20.4	21.5	22.3	18.8	20.6	17.4	15.1	16.4
31	---	---	---	22.7	20.1	21.4	21.1	19.0	20.1	---	---	---
MONTH	21.8	10.9	15.8	25.3	17.3	21.5	---	---	---	22.7	13.9	18.1

09153290 REED WASH NEAR MACK, CO

LOCATION.--Lat 39°12'41", long 108°48'11", in SE¼SW¼ sec.27, T.2 N., R.3 W., Ute Meridian, Mesa County, Hydrologic Unit 14010005, on right bank 250 ft upstream from unnamed tributary, 0.4 mi downstream from Peck and Beede Wash, and 3.5 mi east of Mack.

DRAINAGE AREA.--15.7 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,505 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow is mostly return flow and waste water from irrigated lands under Government Highline and Grand Valley Canals.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	65	9.3	6.2	4.8	3.8	3.2	55	65	78	68	70
2	57	75	9.2	6.3	4.8	3.8	3.3	56	57	81	70	73
3	59	69	8.9	6.3	4.8	3.8	3.8	58	56	81	61	80
4	61	64	8.7	6.1	4.8	3.8	3.6	57	68	80	55	75
5	63	63	8.7	6.3	4.6	3.7	42	63	62	79	55	77
6	63	65	8.7	6.0	4.6	3.9	95	48	65	79	58	71
7	61	66	8.8	5.9	4.6	3.7	90	48	64	82	70	65
8	63	61	8.8	5.9	4.7	3.5	88	50	60	85	70	67
9	57	65	8.4	5.9	4.6	3.6	87	57	57	89	71	79
10	61	43	36	5.9	4.4	3.5	88	53	54	79	64	81
11	64	19	83	5.7	4.4	3.5	82	55	67	66	70	84
12	62	13	56	5.6	4.3	3.5	85	52	63	64	64	90
13	66	12	8.2	5.8	4.3	3.5	84	55	53	72	65	82
14	71	12	7.7	5.6	4.4	3.5	83	62	49	75	65	73
15	73	11	7.5	5.5	4.6	3.5	81	60	51	76	60	64
16	73	11	7.3	5.5	4.3	3.5	79	59	57	80	66	57
17	76	11	7.3	5.4	4.2	3.5	83	60	74	87	65	58
18	76	11	7.3	5.4	4.2	3.6	77	52	59	89	76	56
19	73	11	7.1	5.4	4.1	3.3	80	53	61	90	77	55
20	69	10	7.0	5.3	4.2	3.3	73	56	59	88	83	55
21	66	10	7.0	5.2	4.2	3.3	61	61	54	87	91	51
22	67	10	6.9	5.1	4.3	3.3	57	50	49	81	75	52
23	76	10	6.9	5.0	4.6	3.3	54	57	50	74	70	59
24	80	9.9	6.9	5.0	4.3	3.3	47	61	61	79	69	57
25	70	9.9	6.6	5.0	4.2	3.3	57	68	68	77	70	54
26	68	9.8	6.4	5.0	4.0	3.3	57	66	70	61	73	55
27	70	9.8	6.4	5.0	3.9	3.3	60	66	74	55	73	53
28	72	9.5	6.3	4.9	3.8	3.3	57	84	74	51	66	54
29	68	9.4	6.3	4.9	---	3.2	57	82	73	50	64	51
30	67	9.4	6.3	5.0	---	3.1	50	80	77	54	67	53
31	63	---	6.3	4.9	---	3.1	---	74	---	62	72	---
TOTAL	2073	854.7	386.2	171.0	123.0	107.6	1867.9	1858	1851	2331	2123	1951
MEAN	66.9	28.5	12.5	5.52	4.39	3.47	62.3	59.9	61.7	75.2	68.5	65.0
MAX	80	75	83	6.3	4.8	3.9	95	84	77	90	91	90
MIN	57	9.4	6.3	4.9	3.8	3.1	3.2	48	49	50	55	51
AC-FT	4110	1700	766	339	244	213	3700	3690	3670	4620	4210	3870

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1998, BY WATER YEAR (WY)

MEAN	77.0	21.7	13.8	5.90	4.57	7.21	47.0	65.9	66.3	73.2	77.0	76.7
MAX	99.4	39.5	29.0	15.3	6.67	26.8	65.3	112	95.9	98.1	96.3	115
(WY)	1977	1994	1989	1986	1976	1981	1986	1980	1978	1981	1978	1978
MIN	59.8	11.5	6.63	3.41	3.29	2.85	18.5	43.1	47.6	58.4	60.0	58.6
(WY)	1996	1976	1977	1982	1983	1983	1979	1992	1992	1991	1991	1997

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1976 - 1998	
ANNUAL TOTAL	13968.6		15697.4			
ANNUAL MEAN	38.3		43.0		44.9	
HIGHEST ANNUAL MEAN					54.0	1978
LOWEST ANNUAL MEAN					35.2	1992
HIGHEST DAILY MEAN	a89	Jul 24	95	Apr 6	150	May 12 1980
LOWEST DAILY MEAN	2.6	Apr 8	b3.1	Mar 30	2.0	Jan 31 1979
ANNUAL SEVEN-DAY MINIMUM	3.0	Apr 2	3.2	Mar 26	2.5	Jan 22 1982
INSTANTANEOUS PEAK FLOW			111	Apr 5	c390	Jul 23 1983
INSTANTANEOUS PEAK STAGE			4.89	Apr 5	d6.21	Sep 8 1991
ANNUAL RUNOFF (AC-FT)	27710		31140		32520	
10 PERCENT EXCEEDS	72		80		86	
50 PERCENT EXCEEDS	47		56		55	
90 PERCENT EXCEEDS	4.1		4.0		4.0	

a-Also occurred Jul 25.
b-Also occurred Mar 31.
c-Gage height unknown.
d-Maximum recorded gage height.

09153290 REED WASH NEAR MACK, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1995 to September 1998 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1996 to September 1997.
WATER TEMPERATURE: October 1996 to September 1998 (discontinued).

INSTRUMENTATION.--Water-quality monitor with satellite telemetry October 1996 to September 1997. Water temperature sensor and logger October 1997 to September 1998 (discontinued).

REMARKS.--Upper Colorado River Basin National Water Quality Assessment station (NAWQA). Daily water-temperature data are good. Data not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 4,810 microsiemens, Dec. 5, 1996; minimum, 801 microsiemens, Apr. 19, 1997.
WATER TEMPERATURE: Maximum, 25.8°C, July 19, 1998; minimum, 0.1°C, Dec. 12, 1997.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 25.8°C, July 19; minimum, 0.1°C, Dec. 12 (may have been lower during period of missing record).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT												
10...	0900	61	1520	8.1	11.5	8.8	590	150	50	110	2	4.0
NOV												
05...	1120	65	1480	8.3	6.5	10.4	510	130	45	110	2	4.0
DEC												
12...	1145	90	1170	8.3	0.0	12.0	360	93	31	100	2	3.3
JAN												
07...	1210	5.9	4300	8.2	4.0	12.0	2300	540	230	300	3	9.5
FEB												
12...	0950	4.2	4360	8.0	3.5	11.4	2200	510	230	300	3	8.8
MAR												
10...	1000	3.5	4410	8.0	3.0	10.8	2200	500	240	320	3	8.7
APR												
05...	1355	16	4180	8.1	11.0	8.9	2100	460	230	300	3	9.5
05...	1430	32	3300	8.0	10.5	8.5	1500	360	140	220	2	10
05...	1630	99	1270	8.2	11.0	8.5	400	100	35	110	2	5.7
15...	1400	83	922	8.2	10.0	9.3	280	73	25	79	2	3.2
MAY												
08...	0930	55	1140	8.2	10.5	9.0	460	120	41	65	1	3.8
JUN												
08...	1315	55	1430	8.1	16.5	7.5	620	160	54	78	1	4.0
JUL												
10...	0950	93	1330	7.9	18.5	7.2	520	140	44	76	1	3.8
AUG												
10...	1250	67	1760	7.9	20.0	7.0	680	170	60	110	2	4.9
SEP												
08...	1220	72	1970	8.0	20.0	7.1	760	200	66	140	2	6.6

09153290 REED WASH NEAR MACK, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	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)
OCT												
10...	196	--	161	580	110	0.3	9.9	1090	1120	1.48	180	0.01
NOV												
05...	184	--	151	430	120	0.3	8.6	1030	942	1.40	181	0.04
DEC												
12...	172	1	141	270	130	0.3	8.6	790	730	1.07	191	0.02
JAN												
07...	357	--	293	2300	210	0.3	10	4030	3790	5.48	64.2	0.07
FEB												
12...	354	--	291	2300	210	0.2	8.4	4210	3750	5.72	47.7	0.07
MAR												
10...	342	--	281	2300	220	0.2	8.4	4240	3820	5.76	40.0	0.06
APR												
05...	366	--	300	2100	210	0.2	7.4	3880	3570	5.28	168	0.06
05...	302	--	248	1500	180	0.3	7.6	2910	2640	3.96	252	0.05
05...	198	--	162	340	100	0.3	11	874	818	1.19	234	0.01
15...	188	--	154	190	81	0.3	9.4	590	559	0.80	132	<0.01
MAY												
08...	198	--	162	360	51	0.3	11	826	753	1.12	123	0.03
JUN												
08...	179	--	147	520	68	0.2	8.8	1080	989	1.47	161	0.04
JUL												
10...	182	--	149	430	75	0.2	7.5	966	870	1.31	243	0.02
AUG												
10...	215	--	176	590	110	0.3	9.8	1300	1180	1.77	235	0.02
SEP												
08...	228	--	187	650	140	0.3	8.9	1480	1340	2.01	287	0.02

DATE	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)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)
OCT												
10...	1.5	<0.01	1.4	<0.2	0.77	0.01	<0.01	3.0	1.1	<3	15	15
NOV												
05...	1.2	<0.02	0.4	0.1	0.15	<0.01	<0.01	2.3	1.1	4	16	11
DEC												
12...	0.79	<0.02	0.3	0.1	0.14	<0.01	0.01	2.2	1.7	<10	9	6
JAN												
07...	8.6	<0.02	0.4	0.4	0.01	<0.01	0.02	4.7	0.2	<30	110	92
FEB												
12...	8.2	0.06	0.4	0.4	<0.01	<0.01	0.02	4.6	0.2	<50	110	93
MAR												
10...	7.8	0.02	0.5	0.4	<0.01	<0.01	0.02	5.0	0.2	<30	120	89
APR												
05...	6.6	0.12	4.8	0.7	2.0	0.01	0.02	6.4	>25	<30	190	88
05...	5.1	0.24	14	0.7	6.5	<0.01	0.03	6.4	>25	<30	250	52
05...	1.2	0.14	5.0	0.6	3.1	0.03	0.03	5.1	23	<10	54	26
15...	0.51	0.04	1.1	0.2	0.44	0.04	0.03	3.2	4.2	<10	9	4
MAY												
08...	1.6	0.07	2.7	0.4	1.6	0.19	0.18	4.9	14	<10	14	12
JUN												
08...	1.9	0.07	0.2	0.3	0.92	0.06	0.09	3.8	5.1	<10	15	21
JUL												
10...	1.4	0.05	1.5	0.3	0.88	0.13	0.08	3.8	>5.0	<10	13	11
AUG												
10...	2.1	0.08	1.5	0.2	0.83	0.06	0.07	3.3	5.8	<10	26	18
SEP												
08...	2.3	0.03	0.8	0.4	0.33	0.06	0.05	3.7	1.9	<10	16	22

09153290 REED WASH NEAR MACK, CO--Continued

(National Water-Quality Assessment Program station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154) [a]	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT				
10...	0900	61	1420	235
NOV				
05...	1120	65	192	34
DEC				
12...	1145	90	247	60
JAN				
07...	1210	5.9	4	0.06
FEB				
12...	0950	4.2	15	0.17
MAR				
10...	1000	3.5	17	0.16
APR				
05...	1355	16	2520	109
05...	1430	32	6330	547
05...	1630	99	3650	975
15...	1400	83	551	123
MAY				
08...	0930	55	1490	221
08...	0931	55	1570	233
08...	0940	55	1500	222
08...	0941	55	1480	220
JUN				
08...	1315	55	844	126
JUL				
10...	0950	93	1170	294
AUG				
10...	1250	67	756	137
SEP				
08...	1220	72	453	88

a-Suspended-sediment concentrations were determined from a subsample split of a composite sample.

09153290 REED WASH NEAR MACK, CO--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.6	14.5	15.6	9.0	7.2	8.1	8.5	5.9	7.2	---	---	---
2	17.0	14.8	15.9	8.5	6.5	7.5	9.0	7.5	8.1	---	---	---
3	17.2	15.1	16.0	7.8	6.1	7.1	8.5	4.0	6.3	---	---	---
4	16.7	14.3	15.5	7.8	5.9	6.9	6.8	2.8	4.3	---	---	---
5	16.6	14.2	15.4	7.8	5.8	6.8	5.8	2.1	3.9	---	---	---
6	16.7	14.1	15.3	8.1	5.8	6.8	6.2	3.1	4.5	---	---	---
7	15.4	13.4	14.3	8.1	5.9	6.9	6.5	5.1	5.9	---	---	---
8	14.1	12.7	13.3	8.2	6.7	7.4	7.9	6.4	6.9	---	---	---
9	13.5	11.2	12.4	7.4	7.0	7.2	6.8	5.1	6.1	---	---	---
10	13.5	11.2	12.3	7.5	5.9	6.7	7.0	2.0	4.4	---	---	---
11	12.9	11.5	12.1	9.5	7.5	8.3	2.0	.9	1.6	---	---	---
12	11.5	10.3	11.2	10.4	9.2	9.6	1.5	.1	.6	---	---	---
13	10.7	8.5	9.6	10.6	8.9	9.5	---	---	---	---	---	---
14	11.0	8.2	9.5	9.3	6.5	8.2	---	---	---	---	---	---
15	11.2	8.4	9.7	7.3	5.3	6.3	---	---	---	6.4	4.2	5.4
16	12.0	9.0	10.3	7.8	5.4	6.4	---	---	---	7.5	5.6	6.5
17	12.1	9.0	10.5	7.9	5.8	6.7	---	---	---	7.7	5.6	6.5
18	12.4	9.2	10.7	8.1	5.6	6.8	---	---	---	7.2	4.9	6.0
19	12.6	9.3	10.8	8.7	6.7	7.7	---	---	---	6.9	4.7	5.8
20	12.4	9.6	10.9	9.3	7.6	8.3	---	---	---	6.7	4.7	5.6
21	12.6	9.5	10.9	8.1	6.8	7.4	---	---	---	5.8	3.6	4.5
22	12.7	9.0	10.7	7.9	5.8	6.8	---	---	---	4.7	3.0	3.8
23	10.7	8.7	9.8	8.1	5.8	6.7	---	---	---	5.8	3.1	4.3
24	9.8	8.4	9.1	7.8	5.1	6.4	---	---	---	6.7	3.9	5.1
25	8.4	6.7	7.2	8.5	6.1	7.1	---	---	---	6.4	3.6	4.9
26	7.2	5.1	6.1	9.2	6.8	8.0	---	---	---	6.7	3.8	5.1
27	7.6	4.8	6.1	9.6	8.2	9.0	---	---	---	6.6	3.8	5.0
28	8.4	5.3	6.7	9.2	7.3	8.3	---	---	---	6.4	3.1	4.7
29	8.4	6.2	7.3	8.2	6.1	7.0	---	---	---	6.4	3.0	4.8
30	9.2	7.0	8.1	7.8	5.4	6.5	---	---	---	8.0	5.2	6.3
31	9.2	7.2	8.2	---	---	---	---	---	---	8.4	5.9	7.0
MONTH	17.2	4.8	11.0	10.6	5.1	7.4	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	7.0	3.9	5.4	6.8	2.5	4.4	12.1	5.6	8.9	18.3	9.9	13.9
2	6.4	4.9	5.6	7.6	2.9	5.3	9.9	7.5	8.5	19.6	10.7	14.6
3	8.3	5.8	6.9	9.6	5.1	7.1	11.5	6.2	8.9	18.9	10.6	14.2
4	8.0	5.8	6.9	9.9	6.2	7.5	13.2	7.5	10.0	18.4	9.9	13.4
5	9.1	6.3	7.5	8.2	4.0	6.3	10.9	6.5	9.1	16.2	10.7	13.4
6	8.7	5.8	7.4	9.2	6.1	7.4	11.3	9.2	10.0	14.1	11.2	12.6
7	8.7	7.0	7.6	7.9	4.3	6.1	9.7	8.5	9.1	17.5	9.8	13.2
8	7.8	6.4	7.0	7.6	2.3	4.8	11.3	7.9	9.5	17.0	9.8	13.0
9	8.9	6.1	7.3	8.9	2.9	5.6	11.8	8.7	10.2	17.5	9.8	13.3
10	8.0	4.5	6.1	9.2	2.9	5.7	12.4	9.0	10.6	16.8	10.7	13.6
11	6.3	3.8	5.0	9.5	3.2	6.0	12.9	9.3	11.1	17.5	10.3	13.5
12	6.8	2.9	4.8	10.3	3.2	6.4	12.0	10.3	10.9	16.7	10.6	13.4
13	6.2	2.9	4.8	10.9	3.7	6.9	11.5	9.8	10.5	15.7	11.0	13.1
14	8.1	5.4	6.6	11.6	4.5	7.8	11.0	8.8	9.8	14.4	10.4	12.1
15	8.5	6.5	7.2	12.1	5.0	8.2	10.9	7.8	9.2	17.1	8.9	12.5
16	8.2	5.8	6.9	12.0	5.0	8.2	9.6	7.8	8.7	16.2	9.3	12.7
17	8.4	6.4	7.2	11.6	5.6	8.6	11.8	8.2	9.7	18.4	9.6	13.5
18	7.9	5.3	6.5	8.9	5.6	7.1	11.8	8.4	10.0	18.9	10.3	14.0
19	8.2	4.3	6.0	10.6	4.7	7.3	11.8	7.8	9.9	18.6	12.0	15.0
20	8.2	4.3	5.9	11.8	4.7	7.8	13.5	8.7	11.1	19.6	13.1	15.8
21	8.2	3.6	5.7	12.4	5.0	8.4	14.8	9.0	11.8	17.1	13.1	14.9
22	8.4	5.6	6.7	12.6	6.4	9.2	15.6	9.8	12.5	16.7	11.0	13.6
23	8.9	5.9	7.4	14.3	7.3	10.6	16.7	10.7	13.6	17.6	10.9	13.9
24	10.1	7.0	8.2	15.1	7.6	11.1	16.0	11.8	13.6	17.0	12.0	14.3
25	8.1	6.0	6.8	15.4	8.2	11.4	15.2	10.6	12.7	18.1	12.0	14.7
26	7.9	4.2	5.8	12.1	9.3	10.7	13.7	10.3	11.9	17.1	12.7	14.6
27	6.8	3.4	5.0	12.4	9.6	10.9	14.9	9.6	12.2	18.8	12.4	15.2
28	7.5	2.3	4.6	10.7	8.6	9.7	16.0	9.2	12.4	19.7	12.6	15.8
29	---	---	---	9.6	6.8	8.3	17.5	9.3	13.1	18.1	13.8	15.9
30	---	---	---	9.3	4.5	6.9	17.8	9.3	13.4	19.4	13.4	16.0
31	---	---	---	12.7	5.6	8.7	---	---	---	19.2	12.7	15.7
MONTH	10.1	2.3	6.4	15.4	2.3	7.8	17.8	5.6	10.8	19.7	8.9	14.0

09153290 REED WASH NEAR MACK, CO--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.9	13.1	16.1	---	---	---	22.0	18.9	20.3	20.2	18.0	18.9
2	20.2	12.6	16.0	---	---	---	22.2	17.8	19.7	21.5	17.3	19.2
3	20.5	12.6	16.2	---	---	---	21.5	17.8	19.6	21.9	17.3	19.5
4	17.6	12.9	14.9	---	---	---	22.2	17.2	19.4	22.0	18.1	19.9
5	18.1	12.6	14.9	---	---	---	22.7	17.0	19.6	22.0	18.8	20.2
6	18.6	11.5	14.8	---	---	---	23.0	17.0	19.7	22.0	18.4	20.0
7	19.1	12.3	15.2	---	---	---	23.2	17.3	20.0	21.9	18.3	19.9
8	18.3	12.9	15.3	---	---	---	22.7	17.8	20.2	---	---	---
9	17.6	13.2	15.2	---	---	---	23.2	18.8	20.8	---	---	---
10	17.9	12.9	15.2	---	---	---	20.7	19.1	19.8	---	---	---
11	18.3	12.0	15.0	23.0	17.2	19.5	22.2	17.3	19.6	---	---	---
12	20.4	12.9	16.3	23.4	16.7	19.5	22.2	17.5	19.6	---	---	---
13	19.1	14.0	16.2	23.2	17.2	19.7	22.7	17.2	19.8	---	---	---
14	18.6	13.7	15.8	23.5	17.8	20.4	22.0	18.0	19.9	---	---	---
15	19.4	12.4	15.6	23.9	17.6	20.5	22.4	17.6	19.8	---	---	---
16	16.8	14.3	15.5	24.7	17.6	20.9	22.4	17.8	20.0	---	---	---
17	14.3	12.3	13.1	25.3	18.0	21.2	23.0	18.3	20.3	---	---	---
18	18.3	11.0	14.3	25.4	18.1	21.4	21.7	18.3	19.9	---	---	---
19	19.4	12.6	15.7	25.8	19.1	21.9	22.9	17.3	19.8	---	---	---
20	21.0	13.7	16.9	25.1	19.1	21.8	22.7	17.2	19.8	---	---	---
21	22.0	14.4	17.7	25.3	19.7	22.2	21.0	18.9	19.8	---	---	---
22	22.2	14.4	18.0	24.4	20.2	21.8	22.4	18.4	20.1	---	---	---
23	21.4	13.7	17.3	24.7	19.7	21.7	22.4	18.3	20.2	---	---	---
24	20.7	13.7	16.9	23.4	20.2	21.5	22.4	18.8	20.4	---	---	---
25	22.0	13.2	17.1	22.4	19.9	21.0	20.9	18.0	19.3	---	---	---
26	22.0	14.1	17.7	23.4	19.3	21.0	22.2	18.3	20.0	---	---	---
27	22.5	14.6	18.2	20.7	19.3	19.9	22.2	18.8	20.2	---	---	---
28	---	---	---	20.9	18.8	19.7	21.7	16.5	18.9	---	---	---
29	---	---	---	22.9	18.3	20.4	21.5	16.7	19.0	---	---	---
30	---	---	---	22.9	18.3	20.4	21.9	16.5	19.0	---	---	---
31	---	---	---	22.4	19.3	20.7	21.0	17.3	19.1	---	---	---
MONTH	---	---	---	---	---	---	23.2	16.5	19.8	---	---	---

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 39°07'58", long 109°01'35", in SE¼NW¼ 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 mi^2.

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.--Records good except for estimated daily discharges, which are fair. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e7000	6540	5630	5750	4730	4400	6390	13900	22000	10500	6250	3660
2	e7200	6440	5610	5720	4640	4390	6230	15500	21300	10300	6500	3820
3	7520	6360	5600	5770	4580	4530	6680	16700	20700	9940	6390	4020
4	8410	6300	5630	5870	4580	4740	6540	18600	19500	9690	5800	3990
5	8100	6340	5390	5900	4670	4630	6610	20200	18000	9430	5460	3800
6	7640	6260	5260	5790	4770	4580	6540	e19500	15900	9000	5320	3720
7	7540	6310	5400	5590	4800	4650	6610	e18500	13700	8730	5150	3760
8	8100	6250	5600	5210	4820	4420	6770	17100	12100	8430	4960	3670
9	8070	6200	5700	4810	4810	4240	6480	16300	11200	7910	4710	3600
10	7650	6140	5710	4960	4790	3860	6360	16200	10600	7770	4370	3550
11	7590	6220	5810	4930	4700	3830	6320	17400	10600	8890	4310	3670
12	7840	6370	5570	5040	4590	4210	6780	18800	10400	8630	4240	4310
13	7820	6390	5130	5030	4620	4250	7740	18000	10200	8060	4140	5500
14	7680	6070	4900	4950	4580	4250	7760	18300	10800	7310	3610	5200
15	7590	5930	5130	4890	4670	4540	7710	18500	10600	6580	3630	5090
16	7620	5720	5410	4780	4740	4730	7180	16400	10500	6030	3500	4930
17	7540	5440	5570	4930	4710	4930	7100	15000	10100	5450	3460	4880
18	7450	5620	5660	4930	4690	5490	6860	15200	10800	5240	3420	4800
19	7270	5850	5700	4890	4630	5620	6660	16700	9980	5090	3390	4710
20	7240	5970	5710	4850	4530	5350	6410	18400	9160	4990	3480	4550
21	7020	5960	5730	4860	4500	5100	6350	20800	9670	4750	3660	4430
22	6820	5880	5640	4660	4510	5110	6490	24700	10300	4550	3960	4360
23	6650	5820	5660	4520	4710	5290	7440	23700	11000	4560	4040	4400
24	6830	5630	5620	4680	4800	5820	9120	20700	11400	4980	4010	4450
25	7180	5620	5530	4820	4800	6990	11000	18800	10900	5680	3850	4260
26	7020	5810	4720	4830	4890	8630	12100	17600	10100	6500	3920	4190
27	6760	5830	4500	4790	4690	9650	11200	17800	10300	6580	3810	4080
28	6730	5870	4070	4700	4550	9470	10400	18300	10600	6170	3570	4020
29	6720	5880	4530	4690	---	8990	11000	20000	10700	6140	3720	3990
30	6760	5740	4990	4660	---	8070	12100	22100	10500	6730	3880	4040
31	6670	---	5210	4720	---	6790	---	22800	---	6490	3730	---
TOTAL	228030	180760	166320	156520	131100	171550	232930	572500	373610	221100	134240	127450
MEAN	7356	6025	5365	5049	4682	5534	7764	18470	12450	7132	4330	4248
MAX	8410	6540	5810	5900	4890	9650	12100	24700	22000	10500	6500	5500
MIN	6650	5440	4070	4520	4500	3830	6230	13900	9160	4550	3390	3550
AC-FT	452300	358500	329900	310500	260000	340300	462000	1136000	741100	438600	266300	252800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1998, BY WATER YEAR (WY)

MEAN	3994	4052	3645	3420	3498	3963	6039	14500	17680	8028	3929	3672
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	2688	1662	1350	1361
(WY)	1957	1978	1964	1964	1964	1964	1977	1977	1977	1977	1977	1956

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1951 - 1998	
ANNUAL TOTAL	3733570		2696110			
ANNUAL MEAN	10230		7387		6402	
HIGHEST ANNUAL MEAN					13470	1984
LOWEST ANNUAL MEAN					2559	1977
HIGHEST DAILY MEAN	36800	Jun 3	24700	May 22	68300	May 27 1984
LOWEST DAILY MEAN	3930	Jan 8	3390	Aug 19	960	Sep 7 1956
ANNUAL SEVEN-DAY MINIMUM	4210	Jan 6	3500	Aug 14	1110	Sep 2 1956
INSTANTANEOUS PEAK FLOW			26100	May 22	a69800	May 27 1984
INSTANTANEOUS PEAK STAGE			10.66	May 22	b16.12	May 27 1984
ANNUAL RUNOFF (AC-FT)	7406000		5348000		4638000	
10 PERCENT EXCEEDS	25400		14300		14300	
50 PERCENT EXCEEDS	7050		5800		4050	
90 PERCENT EXCEEDS	4710		4120		2260	

e-Estimated.
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 for the period Nov. 10 to Sept. 30 are good, except for the period Jan. 23 to May 28, which are fair, and the period June 1-5, which are poor. Daily records of water temperature are excellent, except for the period Jun. 22 to Aug. 11, which are good. Interruptions in data for the periods Oct. 1 to Nov. 9, May 6, May 30-31 are due to instrument malfunctions. The missing record June 6-8, was due to sonde out of water. 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, unpublishedmaximum and minimum specific conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,940 microsiemens Aug. 13, 1981; minimum, 277 microsiemens June 11, 1985.
WATER TEMPERATURE: Maximum, 27.0°C Aug. 7-9, 1981; minimum, -0.3°C on several days in Dec. 1996 and Jan. 1997.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,240 microsiemens Sept. 13; minimum, 360 microsiemens May 23.
WATER TEMPERATURE: Maximum, 26.0°C Jul 22; minimum, 0.0°C Dec. 13-14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT												
16...	1215	7580	821	8.5	10.5	9.6	280	75	23	61	2	2.6
NOV												
06...	1130	6310	882	8.7	7.0	10.8	280	72	24	68	2	2.8
DEC												
11...	1100	5830	845	8.6	2.5	12.2	260	67	23	70	2	2.7
30...	1115	5730	819	8.3	0.5	11.8	250	66	21	70	2	2.9
JAN												
27...	1115	4830	858	8.3	2.5	11.8	260	67	23	77	2	2.7
FEB												
13...	1140	4690	859	8.1	3.0	11.3	260	66	23	77	2	3.0
MAR												
13...	1030	4340	915	8.4	6.0	10.7	270	67	24	85	2	3.2
APR												
10...	1200	6500	795	8.3	10.5	9.8	260	66	23	66	2	2.8
MAY												
20...	1215	18200	436	8.3	13.5	8.7	170	43	14	28	1	1.9
JUN												
02...	1245	21400	376	8.3	15.0	8.0	140	38	11	21	0.8	1.5
10...	1130	10900	584	8.4	15.0	7.9	200	55	16	38	1	2.1
JUL												
07...	1115	8950	625	8.4	21.0	7.5	210	58	17	44	1	1.9
AUG												
14...	1110	3850	1070	8.4	22.5	7.5	380	100	30	81	2	3.7
SEP												
10...	1350	3650	1200	8.3	21.0	7.4	410	110	36	94	2	3.8

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
OCT												
16...	134	5	118	200	55	0.3	10	540	504	0.73	11100	<0.01
NOV												
06...	134	5	118	220	64	0.3	9.3	580	529	0.79	9880	0.06
DEC												
11...	139	1	116	200	69	0.3	9.3	547	513	0.74	8610	0.02
30...	162	--	133	180	74	0.3	10	528	504	0.72	8170	<0.01
JAN												
27...	159	2	134	190	80	0.3	9.5	560	532	0.76	7300	<0.01
FEB												
13...	164	--	135	190	75	0.3	9.8	555	528	0.75	7030	0.01
MAR												
13...	167	2	141	200	84	0.3	8.8	594	557	0.81	6960	0.01
APR												
10...	166	2	140	180	54	0.3	11	513	489	0.70	8990	0.02
MAY												
20...	120	--	98	82	20	0.2	11	281	261	0.38	13800	0.01
JUN												
02...	109	--	89	72	16	0.2	8.9	231	223	0.31	13400	0.02
10...	140	4	121	130	33	0.2	10	387	354	0.53	11400	0.01
JUL												
07...	128	2	109	140	40	0.2	7.2	392	374	0.53	9470	<0.01
AUG												
14...	189	7	167	300	75	0.4	9.5	734	701	1.00	7630	<0.01
SEP												
10...	159	7	142	340	83	0.4	10	850	768	1.16	8380	0.01

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	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 DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)
OCT												
16...	0.41	<0.01	0.3	<0.2	0.06	<0.01	<0.01	2.4	0.5	7	5	3
NOV												
06...	0.43	--	0.2	<0.1	0.03	<0.01	0.01	2.5	0.5	8	8	2
DEC												
11...	0.46	<0.02	0.2	0.1	0.02	<0.01	<0.01	2.3	0.5	<10	13	3
30...	0.57	<0.02	0.2	0.2	<0.01	<0.01	0.03	2.2	0.7	14	26	3
JAN												
27...	0.45	0.02	0.2	0.2	0.02	<0.01	<0.01	2.3	0.6	<10	19	3
FEB												
13...	0.39	0.05	0.2	0.2	0.02	<0.01	0.02	2.4	0.4	<10	19	3
MAR												
13...	0.31	0.05	0.3	0.1	0.05	<0.01	0.01	2.4	0.7	<10	19	3
APR												
10...	0.44	0.05	0.6	0.2	0.23	0.03	0.03	3.2	1.7	<10	5	3
MAY												
20...	0.30	0.04	0.8	0.3	0.29	<0.01	0.01	4.1	4.1	<10	<4	--
JUN												
02...	0.24	0.03	0.6	0.2	0.16	<0.01	0.02	3.2	0.6	<10	<4	1
10...	0.41	0.04	0.4	0.2	0.17	<0.01	0.02	3.1	2.1	<10	5	2
JUL												
07...	0.28	0.03	0.4	0.2	0.07	0.03	0.02	2.7	0.6	<10	<4	2
AUG												
14...	0.78	0.04	0.4	0.2	0.10	<0.01	0.02	3.1	1.9	<10	<4	4
SEP												
10...	1.0	0.07	0.4	0.2	0.11	0.03	0.02	3.3	0.7	<10	<4	6

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued

(National Water-Quality Assessment Program station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT,[a] SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 0.062 MM (70331)	SAMPLER[b] TYPE (CODE) (84164)
OCT						
16...	1215	7580	103	2110	--	3039
16...	1245	7710	47	978	53	3009
NOV						
06...	1130	6310	26	443	--	3039
06...	1200	6310	30	511	71	3009
DEC						
11...	1100	5830	27	425	--	3039
11...	1140	5700	45	692	86	3009
30...	1115	5730	32	495	--	3039
30...	1145	5640	49	746	73	3009
JAN						
27...	1115	4830	10	134	--	3039
27...	1200	4830	20	257	--	3009
FEB						
13...	1140	4690	21	268	--	3039
13...	1230	4720	30	382	82	3009
MAR						
13...	1030	4340	83	967	--	3039
13...	1100	4360	98	1150	--	3009
APR						
10...	1200	6490	252	4410	--	3039
10...	1230	6490	309	5410	88	3009
MAY						
20...	1145	18200	763	37500	66	3009
20...	1215	18200	628	30800	--	3039
JUN						
02...	1245	21500	419	24200	--	3039
02...	1246	21500	382	22100	--	3039
02...	1415	21500	498	28800	56	3009
10...	1050	10600	282	8060	57	3009
10...	1130	10900	231	6790	--	3039
JUL						
07...	1040	8950	135	3260	77	3009
07...	1115	8950	84	2030	--	3039
AUG						
14...	1040	3850	128	1330	--	3009
14...	1110	3850	107	1110	--	3039
14...	1111	3850	102	1060	--	3039
SEP						
10...	1250	3610	78	760	--	3009
10...	1350	3650	74	729	--	3039

a-Suspended-sediment concentrations associated with a sampler type coded 3039 were determined from a subsample split of a composite sample.
b-Code 3009 is a D-74 suspended-sediment sampler;Code 3039 is a D-77TM water-quality sampler.

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued

(National Water-Quality Assessment Program station)

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	836	829	833	786	769	782
2	---	---	---	---	---	---	849	836	840	769	756	761
3	---	---	---	---	---	---	857	848	852	769	755	762
4	---	---	---	---	---	---	853	847	850	772	767	769
5	---	---	---	---	---	---	852	846	850	779	762	770
6	---	---	---	---	---	---	846	827	835	780	766	774
7	---	---	---	---	---	---	867	835	848	785	767	777
8	---	---	---	---	---	---	876	866	872	794	774	782
9	---	---	---	---	---	---	887	843	866	828	780	796
10	---	---	---	---	---	---	866	834	841	855	819	831
11	---	---	---	891	875	882	864	811	832	864	844	853
12	---	---	---	886	865	875	820	799	810	868	852	860
13	---	---	---	944	865	893	812	781	798	861	844	852
14	---	---	---	956	927	944	834	807	817	848	842	845
15	---	---	---	927	900	912	879	829	849	852	844	848
16	---	---	---	900	861	876	883	864	872	863	843	848
17	---	---	---	865	860	863	869	838	855	870	827	852
18	---	---	---	896	864	879	839	826	833	861	827	850
19	---	---	---	917	896	909	830	803	814	847	842	845
20	---	---	---	907	874	890	808	795	803	848	845	847
21	---	---	---	874	849	857	800	786	792	847	842	845
22	---	---	---	854	845	851	788	777	783	888	843	861
23	---	---	---	845	838	840	799	781	788	882	857	867
24	---	---	---	846	834	841	812	793	801	880	863	871
25	---	---	---	851	820	841	796	784	790	878	866	871
26	---	---	---	850	846	849	805	775	786	876	828	849
27	---	---	---	849	845	847	812	779	793	830	816	823
28	---	---	---	851	837	844	812	791	803	821	796	806
29	---	---	---	868	851	857	808	795	803	809	799	805
30	---	---	---	856	831	836	816	789	803	809	802	805
31	---	---	---	---	---	---	806	786	799	804	794	799
MONTH	---	---	---	---	---	---	887	775	823	888	755	823
		FEBRUARY			MARCH			APRIL			MAY	
1	808	794	798	843	834	838	736	707	722	510	480	498
2	801	788	795	851	837	842	749	735	741	480	461	472
3	800	792	797	870	851	863	754	739	744	461	437	450
4	808	798	804	901	863	886	773	751	757	439	428	436
5	810	797	805	875	841	854	778	770	773	428	417	424
6	797	786	792	861	838	854	790	771	776	---	---	---
7	803	788	795	878	850	866	771	747	756	---	---	---
8	803	793	796	859	851	855	749	730	738	403	385	395
9	796	793	794	874	858	866	749	736	740	409	402	405
10	797	792	795	893	872	880	751	743	748	415	408	412
11	814	796	805	930	893	908	757	742	752	417	407	413
12	815	801	808	949	927	936	756	739	747	409	394	400
13	805	794	800	927	888	901	739	698	715	397	391	394
14	823	801	811	923	874	894	698	678	683	401	395	398
15	822	807	811	883	867	875	680	671	675	395	385	388
16	867	805	824	880	865	872	700	680	689	421	395	407
17	874	817	843	883	869	876	713	700	706	439	421	430
18	866	818	845	870	852	862	715	708	712	441	436	440
19	877	826	852	870	847	859	726	713	717	436	416	427
20	877	821	858	864	852	857	732	725	728	416	396	406
21	886	843	876	873	864	869	739	732	734	397	383	391
22	889	847	875	893	863	880	739	724	730	383	363	374
23	872	845	850	892	875	885	729	692	709	369	360	364
24	896	881	889	906	873	878	692	596	644	383	369	377
25	894	840	876	911	769	874	596	557	575	403	383	393
26	902	886	898	769	689	733	539	523	528	414	403	410
27	894	878	890	689	632	655	533	523	528	415	409	412
28	894	843	878	639	622	633	554	533	545	410	401	406
29	---	---	---	636	622	629	550	537	546	---	---	---
30	---	---	---	679	634	655	537	510	528	---	---	---
31	---	---	---	707	679	693	---	---	---	---	---	---
MONTH	902	786	831	949	622	833	790	533	693	---	---	---

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued

(National Water-Quality Assessment Program station)

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	555	549	552	968	945	959	1170	1150	1160
2	401	394	397	555	546	551	948	938	942	1190	1170	1180
3	402	392	396	562	552	557	939	934	936	1190	1180	1180
4	410	400	403	571	561	566	940	934	937	1190	1180	1190
5	441	410	430	587	567	578	952	939	944	1190	1180	1180
6	---	---	---	616	587	604	967	951	957	1180	1170	1180
7	---	---	---	639	616	631	977	967	972	1190	1180	1180
8	---	---	---	662	638	653	979	970	975	1210	1190	1200
9	---	---	---	705	662	685	997	977	986	1220	1200	1210
10	613	597	605	739	705	728	1020	992	1000	1230	1210	1220
11	622	612	615	786	733	754	1070	1010	1040	1230	1220	1230
12	624	614	619	771	722	734	1080	1060	1070	1230	1130	1190
13	632	623	627	757	734	745	1070	1060	1070	1240	1180	1210
14	630	604	619	786	757	766	1100	1070	1090	1210	1190	1200
15	610	599	604	824	786	800	1110	1090	1100	1210	1190	1200
16	629	610	621	849	824	836	1130	1100	1120	1190	1140	1160
17	648	629	638	885	849	871	1130	1110	1120	1140	1130	1140
18	659	646	654	919	885	906	1150	1120	1140	1130	1120	1120
19	655	648	651	941	918	934	1150	1120	1140	1130	1120	1120
20	677	655	667	948	939	944	1140	1130	1130	1130	1120	1130
21	678	657	673	965	946	955	1140	1100	1140	1140	1130	1130
22	657	618	639	979	941	964	1140	1120	1140	1140	1120	1130
23	618	583	605	1030	942	981	1120	1090	1100	1130	1110	1120
24	583	549	567	1110	965	1030	1110	1090	1100	1120	1110	1120
25	554	547	550	1020	982	997	1110	1100	1100	1140	1110	1120
26	585	554	573	1030	959	981	1110	1100	1100	1170	1140	1150
27	589	579	586	984	951	967	1130	1110	1120	1150	1140	1150
28	579	560	571	968	945	959	1170	1130	1150	1150	1130	1140
29	564	555	560	982	967	973	1190	1160	1180	1160	1140	1150
30	559	555	557	978	964	975	1200	1170	1180	1150	1140	1150
31	---	---	---	974	968	971	1170	1160	1160	---	---	---
MONTH	---	---	---	1110	546	811	1200	934	1070	1240	1110	1160

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	4.7	4.2	4.4	1.3	.5	.9
2	---	---	---	---	---	---	5.0	4.5	4.7	1.6	.8	1.2
3	---	---	---	---	---	---	4.7	4.1	4.5	2.3	1.3	1.8
4	---	---	---	---	---	---	4.3	3.0	3.4	2.6	1.8	2.2
5	---	---	---	---	---	---	3.0	2.1	2.5	3.1	2.4	2.7
6	---	---	---	---	---	---	2.4	1.7	2.1	2.9	2.2	2.6
7	---	---	---	---	---	---	2.6	2.2	2.4	2.3	1.7	1.9
8	---	---	---	---	---	---	3.3	2.5	2.9	1.8	1.1	1.5
9	---	---	---	---	---	---	3.7	2.9	3.3	1.4	.6	1.1
10	---	---	---	6.5	---	---	3.6	3.0	3.3	1.6	1.1	1.3
11	---	---	---	6.7	6.3	6.5	3.0	1.5	2.1	2.6	1.4	2.0
12	---	---	---	7.1	6.5	6.8	1.5	.3	.7	3.2	2.1	2.6
13	---	---	---	7.0	6.6	6.8	.8	.0	.3	3.2	2.9	3.0
14	---	---	---	6.7	5.2	6.1	1.0	.0	.5	3.7	2.7	3.2
15	---	---	---	5.2	3.7	4.2	1.2	.5	.8	3.1	2.3	2.6
16	---	---	---	3.7	2.7	3.1	1.3	.6	.9	3.0	2.2	2.6
17	---	---	---	3.3	2.4	2.9	1.4	.8	1.1	3.3	2.6	2.9
18	---	---	---	3.7	2.6	3.2	1.6	1.0	1.2	3.6	2.5	3.0
19	---	---	---	4.7	3.7	4.1	1.8	1.0	1.4	3.3	2.9	3.1
20	---	---	---	5.3	4.5	4.9	1.6	.9	1.3	3.5	2.6	3.0
21	---	---	---	5.1	4.4	4.8	1.4	.8	1.1	2.9	1.9	2.4
22	---	---	---	4.5	3.7	4.1	1.9	1.1	1.4	1.9	.9	1.4
23	---	---	---	4.5	3.6	4.1	1.7	1.0	1.4	1.6	.4	1.0
24	---	---	---	4.3	3.6	4.0	1.5	1.1	1.3	2.2	1.0	1.5
25	---	---	---	4.5	3.7	4.1	1.2	.7	.9	2.7	1.4	2.0
26	---	---	---	4.9	4.1	4.4	.7	.1	.4	3.1	1.9	2.5
27	---	---	---	5.7	4.9	5.3	.4	.1	.1	3.0	2.2	2.6
28	---	---	---	6.1	5.4	5.7	.1	.1	.1	2.9	1.8	2.4
29	---	---	---	5.7	4.9	5.3	.1	.1	.1	2.9	1.8	2.3
30	---	---	---	5.2	4.4	4.8	.8	.1	.4	3.9	2.5	3.1
31	---	---	---	---	---	---	1.2	.5	.8	4.5	3.4	3.9
MONTH	---	---	---	---	---	---	5.0	.0	1.7	4.5	.4	2.3

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.4	3.0	3.7	3.9	2.6	3.3	8.4	7.0	7.8	13.2	11.3	12.4
2	3.8	3.0	3.4	4.1	2.5	3.3	8.4	7.6	8.0	13.5	11.2	12.4
3	4.0	3.0	3.4	5.5	3.6	4.5	8.9	7.1	8.0	13.3	11.4	12.5
4	3.8	3.2	3.5	6.4	5.3	5.8	9.3	7.9	8.6	12.8	10.9	12.0
5	5.2	3.5	4.2	6.3	4.8	5.6	10.5	8.5	9.4	12.1	10.7	11.4
6	5.6	4.3	4.9	6.3	5.7	6.0	10.9	9.7	10.2	---	---	---
7	5.7	5.2	5.4	6.1	4.9	5.5	10.2	8.9	9.5	11.9	---	---
8	5.4	4.8	5.1	4.9	3.7	4.2	9.9	8.4	9.2	12.2	10.2	11.2
9	5.5	4.6	5.0	5.3	3.1	4.1	10.7	8.7	9.7	12.2	10.5	11.3
10	5.2	4.2	4.7	6.1	3.9	4.9	11.3	9.0	10.1	13.4	11.0	12.1
11	4.5	3.5	3.9	6.8	4.8	5.7	11.6	10.2	10.9	13.3	11.6	12.5
12	4.0	2.7	3.4	7.6	5.5	6.4	11.5	10.7	11.0	13.2	11.6	12.2
13	3.7	2.7	3.2	8.1	6.1	7.1	10.8	9.9	10.3	12.7	10.9	11.7
14	4.3	3.2	3.7	9.0	6.9	7.9	10.3	9.0	9.8	12.5	11.5	12.0
15	4.8	4.2	4.4	9.7	7.9	8.7	9.8	8.5	9.0	12.1	10.6	11.3
16	5.4	4.4	4.9	10.0	8.4	9.2	9.1	8.2	8.6	12.3	10.3	11.3
17	5.6	5.1	5.3	10.1	8.8	9.4	10.0	8.7	9.3	13.5	10.8	12.0
18	5.7	4.7	5.2	9.4	7.3	8.2	10.6	8.8	9.7	14.4	12.1	13.2
19	6.2	4.6	5.3	7.9	6.5	7.2	10.6	9.2	10.0	14.3	12.6	13.5
20	5.5	4.6	5.1	8.2	6.3	7.2	12.1	9.9	10.9	14.5	12.9	13.7
21	5.7	4.4	5.0	9.0	6.9	8.0	13.0	10.7	11.8	13.7	13.0	13.4
22	5.5	4.8	5.2	9.5	8.1	8.8	13.6	11.7	12.7	13.2	12.1	12.6
23	5.8	4.7	5.2	11.1	9.0	10.0	14.1	12.3	13.3	12.8	11.0	11.9
24	6.0	5.2	5.7	12.2	10.3	11.3	13.9	12.3	13.1	13.4	11.8	12.5
25	6.0	5.1	5.6	12.7	11.2	12.0	12.8	11.4	11.9	13.6	11.7	12.6
26	5.4	4.2	4.8	12.0	10.5	11.2	11.6	10.2	10.9	14.1	12.4	13.2
27	4.7	3.8	4.2	10.5	9.5	10.0	11.3	9.9	10.6	14.5	12.8	13.7
28	4.5	2.9	3.7	9.5	8.3	8.9	12.2	10.1	11.2	15.3	13.3	14.3
29	---	---	---	8.3	7.0	7.7	12.9	10.9	12.0	---	13.9	---
30	---	---	---	7.1	5.9	6.6	13.3	11.3	12.4	---	---	---
31	---	---	---	8.0	6.2	7.0	---	---	---	---	---	---
MONTH	6.2	2.7	4.5	12.7	2.5	7.3	14.1	7.0	10.3	---	---	---
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.7	---	---	20.9	18.6	19.8	22.7	22.0	22.3	21.8	20.3	21.1
2	15.1	13.8	14.5	21.2	18.9	20.0	22.7	21.0	21.9	22.3	19.9	21.0
3	15.3	14.3	14.8	21.4	18.9	20.2	22.8	21.3	22.0	22.6	20.4	21.5
4	14.7	13.0	13.9	21.9	19.4	20.6	22.8	21.3	22.1	23.2	21.3	22.2
5	13.6	12.5	13.0	21.9	19.5	20.8	23.3	21.6	22.4	23.5	21.5	22.4
6	---	---	---	22.7	20.0	21.4	23.5	21.6	22.6	23.3	21.4	22.3
7	---	---	---	22.7	20.6	21.7	23.8	22.0	22.9	23.5	21.7	22.6
8	---	---	---	21.7	19.3	20.6	23.9	22.5	23.2	23.7	21.7	22.6
9	16.0	---	---	21.6	20.2	20.7	24.3	22.4	23.3	22.6	21.3	21.9
10	15.8	14.2	15.1	21.5	19.8	20.5	23.5	22.0	22.9	21.4	20.3	20.8
11	15.9	13.5	14.8	21.1	19.5	20.4	22.6	21.0	21.8	20.7	19.4	20.1
12	17.2	14.1	15.4	21.4	19.3	20.4	22.9	21.5	22.2	19.9	19.2	19.6
13	17.2	15.5	16.4	22.2	20.3	21.3	23.9	21.5	22.5	19.9	18.6	19.3
14	16.7	15.2	16.0	22.9	20.9	22.0	23.9	22.0	22.9	20.3	18.7	19.5
15	16.4	14.5	15.6	23.5	21.6	22.6	24.2	22.0	23.0	20.4	18.8	19.6
16	16.3	15.1	15.5	24.1	22.4	23.3	23.8	22.0	22.9	20.7	19.0	19.8
17	15.5	13.6	14.2	24.7	22.9	23.8	24.2	22.3	23.1	20.5	18.7	19.7
18	15.2	12.2	13.6	25.1	23.4	24.3	22.9	21.5	22.0	20.3	18.6	19.5
19	17.3	14.6	15.7	25.6	23.8	24.7	23.0	20.7	21.8	19.5	18.2	18.9
20	18.5	16.1	17.2	25.6	24.0	24.8	23.7	21.1	22.3	18.9	17.3	18.1
21	18.8	16.7	17.8	25.9	24.4	25.2	22.8	21.9	22.3	18.3	16.5	17.5
22	18.9	17.0	18.0	26.0	24.4	25.1	23.6	21.2	22.2	18.0	16.5	17.3
23	18.7	16.6	17.7	25.5	23.6	24.5	24.1	22.0	23.0	18.0	16.9	17.3
24	18.1	16.4	17.3	25.2	23.2	24.0	23.9	22.2	23.0	18.3	16.1	17.1
25	18.0	16.1	17.2	24.5	23.0	23.7	23.0	21.7	22.3	17.9	16.7	17.3
26	18.7	16.3	17.5	23.8	22.4	23.0	23.3	21.0	22.0	17.7	16.1	16.9
27	19.3	17.1	18.3	23.0	21.9	22.5	23.9	22.0	22.8	17.7	15.9	16.8
28	19.8	17.6	18.8	23.3	22.3	22.7	23.2	21.1	22.2	17.3	15.4	16.4
29	20.2	18.0	19.2	23.8	21.6	22.7	23.1	21.1	22.1	18.0	16.3	17.0
30	20.6	18.2	19.5	23.7	22.3	23.0	23.2	21.1	22.1	18.5	16.5	17.3
31	---	---	---	23.4	21.9	22.7	22.7	21.3	21.9	---	---	---
MONTH	---	---	---	26.0	18.6	22.4	24.3	20.7	22.5	23.7	15.4	19.4

09166500 DOLORES RIVER AT DOLORES, CO

LOCATION.--Lat 37°28'21", long 108°29'49", in SW¼SW¼ sec.10, T.37 N., R.15 W., Montezuma County, Hydrologic Unit 14030002, on left bank 0.25 mi upstream from bridge on State Highway 184 in Dolores and 0.8 mi upstream from Lost Canyon Creek.

DRAINAGE AREA.--504 mi^2.

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 fair 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1885, that of Oct. 5, 1911.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	214	166	e105	e80	e58	e56	343	1740	2110	507	357	150
2	205	145	104	e85	e60	e60	367	1790	2230	476	313	211
3	268	136	103	e90	e64	e62	329	2300	2190	439	252	179
4	249	146	82	e80	e64	e62	352	2540	1870	433	228	155
5	204	139	88	e68	e62	e60	381	2500	1420	409	212	140
6	190	137	e95	e60	e62	e60	428	2400	1190	400	193	132
7	186	134	e100	e64	e62	e60	400	1960	1110	384	183	126
8	317	132	e95	e66	e60	e64	351	1760	1040	452	173	118
9	254	148	e90	e70	e60	e64	335	1510	984	468	172	113
10	255	139	e82	e78	e58	e66	334	1660	947	453	167	112
11	283	142	e70	e76	e56	e74	480	1990	873	428	171	123
12	276	149	e66	e74	e56	e90	693	2110	796	351	178	143
13	242	144	e80	e70	e60	e120	564	2140	892	310	162	200
14	258	134	e86	e60	e64	e140	517	2180	912	276	164	160
15	271	102	e86	e58	e60	e170	465	1680	907	247	161	145
16	270	63	e82	e60	e58	e200	427	1640	919	246	151	144
17	251	e95	e85	e60	e58	191	390	1820	924	246	146	154
18	237	e110	e85	e62	e56	175	403	2390	806	234	148	139
19	222	e120	e80	e66	e56	139	401	2660	799	229	146	103
20	209	e115	e80	e62	e60	151	490	2690	861	224	146	84
21	199	e105	e80	e56	e58	174	645	3100	835	219	157	79
22	188	103	e85	e56	e60	211	866	3030	835	207	166	71
23	179	95	e82	e56	e60	279	1220	2410	809	207	149	70
24	198	e100	e78	e56	e60	402	1600	2290	749	244	136	69
25	169	108	e70	e58	e60	577	1620	2050	673	265	134	66
26	156	115	e60	e62	e54	743	1340	2160	634	368	187	62
27	179	122	e62	e62	e48	646	1120	2350	624	294	176	59
28	184	106	e64	e62	e54	521	1150	2520	605	356	151	58
29	176	93	e70	e64	---	433	1170	2640	585	369	136	56
30	169	98	e72	e64	---	358	1520	2590	551	287	129	64
31	165	---	e75	e62	---	377	---	2240	---	258	125	---
TOTAL	6823	3641	2542	2047	1648	6785	20701	68840	30680	10286	5469	3485
MEAN	220	121	82.0	66.0	58.9	219	690	2221	1023	332	176	116
MAX	317	166	105	90	64	743	1620	3100	2230	507	357	211
MIN	156	63	60	56	48	56	329	1510	551	207	125	56
AC-FT	13530	7220	5040	4060	3270	13460	41060	136500	60850	20400	10850	6910

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1896 - 1998, BY WATER YEAR (WY)

MEAN	136	84.7	59.2	52.7	56.9	130	751	1756	1385	414	236	182
MAX	1247	453	199	151	140	458	1955	3625	3470	1490	637	1354
(WY)	1942	1942	1987	1987	1987	1997	1942	1922	1957	1957	1957	1927
MIN	26.0	20.0	19.8	19.3	20.0	25.0	158	235	108	55.4	29.0	33.5
(WY)	1902	1902	1990	1990	1902	1899	1977	1977	1934	1934	1900	1899

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1896 - 1998	
ANNUAL TOTAL	246220		162947			
ANNUAL MEAN	675		446		438	
HIGHEST ANNUAL MEAN					790	1942
LOWEST ANNUAL MEAN					87.0	1977
HIGHEST DAILY MEAN	4000	Jun 2	3100	May 21	6950	May 5 1922
LOWEST DAILY MEAN	e60	Dec 26	e48	Feb 27	8.0	Aug 16 1896
ANNUAL SEVEN-DAY MINIMUM	68	Dec 25	56	Feb 23	12	Aug 10 1896
INSTANTANEOUS PEAK FLOW			3610	May 22	a10000	Oct 5 1911
INSTANTANEOUS PEAK STAGE			b5.39	May 22	10.20	Oct 5 1911
ANNUAL RUNOFF (AC-FT)	488400		323200		317300	
10 PERCENT EXCEEDS	2160		1550		1410	
50 PERCENT EXCEEDS	276		167		122	
90 PERCENT EXCEEDS	79		60		41	

e-Estimated.
a-Site and datum then in use, from rating curve extended above 2800 ft^3/s.
b-Maximum gage height, 6.75 ft, Dec 22, backwater from ice.

09166950 LOST CANYON CREEK NEAR DOLORES, CO

LOCATION.--Lat 37°26'46", long 108°28'07", in SE¼SE¼ 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 mi^2.

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 fair 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	6.0	3.8	e4.5	e3.7	8.5	63	338	35	.01	1.2	.12
2	1.2	4.9	e3.8	4.8	e3.8	6.1	64	299	31	.00	1.3	.18
3	4.2	4.5	3.7	4.8	e4.0	5.4	65	359	26	.00	.97	.11
4	4.8	5.2	e3.2	e4.3	e4.0	5.6	77	329	21	.00	.67	.03
5	4.0	5.1	e3.2	e3.7	e4.0	4.7	85	262	18	.00	.45	.01
6	3.5	4.8	e3.2	e3.5	e3.9	4.9	95	219	13	.00	.48	.00
7	3.4	4.5	3.2	e3.6	e3.9	6.5	76	158	3.1	.00	.63	.00
8	11	4.4	3.3	e3.8	e3.8	8.5	61	124	2.1	.00	.75	.00
9	14	5.4	e3.5	e4.1	e3.7	8.2	52	81	1.7	.16	.66	.00
10	11	5.3	e3.7	e4.4	e3.6	8.9	53	108	1.5	.70	.70	.00
11	10	5.9	e3.9	e4.3	e3.6	7.8	100	146	1.5	.57	.57	.00
12	10	5.8	e4.2	e4.3	e3.8	9.5	196	150	1.3	.31	.71	.00
13	9.3	5.9	4.4	e4.0	e4.0	11	127	156	1.2	.16	.58	.00
14	9.3	5.3	4.6	e3.5	4.1	10	98	137	1.1	.04	.65	.00
15	9.7	3.7	4.9	e3.4	e4.0	11	75	71	1.1	.00	1.6	.00
16	8.9	3.5	4.6	e3.4	e3.9	16	59	65	1.0	.00	1.3	.00
17	8.1	e3.8	4.7	e3.6	e3.9	24	54	69	1.0	.00	.87	.00
18	7.2	e4.0	4.9	e3.7	e3.7	26	60	116	.87	.00	.94	.00
19	6.6	4.1	4.3	e3.8	e3.7	35	61	130	.81	.00	.84	.00
20	6.0	4.0	4.2	e3.7	e4.0	36	69	107	.74	.04	1.5	.00
21	5.7	e4.0	4.4	e3.4	e4.0	37	118	132	.69	.05	1.3	.00
22	5.3	e3.8	4.6	e3.4	e4.0	43	182	110	.56	.01	1.0	.00
23	5.3	e3.7	4.6	e3.4	4.1	55	271	58	.45	.10	.78	.00
24	6.7	e3.7	4.5	e3.4	4.3	86	373	56	.38	.19	.57	.00
25	6.2	3.7	e4.4	e3.5	5.1	150	333	73	.31	.17	.46	.00
26	4.6	3.5	e3.3	e3.8	5.7	203	212	71	.28	.15	.37	.00
27	5.4	4.1	e3.4	e3.9	5.7	147	142	71	.23	.13	.27	.00
28	6.4	3.8	e3.5	e3.8	7.8	108	165	65	.15	.28	.16	.00
29	6.2	e3.8	e3.8	e4.0	---	76	170	59	.11	.26	.11	.00
30	6.0	e3.8	e4.1	e3.9	---	79	276	52	.06	.22	.07	.00
31	6.0	---	e4.3	e3.8	---	71	---	42	---	.46	.06	---
TOTAL	206.09	134.0	124.2	119.5	117.8	1308.6	3832	4213	166.24	4.01	22.52	0.45
MEAN	6.65	4.47	4.01	3.85	4.21	42.2	128	136	5.54	.13	.73	.015
MAX	14	6.0	4.9	4.8	7.8	203	373	359	35	.70	1.6	.18
MIN	.09	3.5	3.2	3.4	3.6	4.7	52	42	.06	.00	.06	.00
AC-FT	409	266	246	237	234	2600	7600	8360	330	8.0	45	.9

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1998, BY WATER YEAR (WY)

MEAN	2.69	5.15	2.41	1.68	2.49	40.3	128	119	11.8	.24	.31	.93
MAX	17.7	45.2	14.8	5.00	6.85	110	265	293	91.2	.87	1.62	5.16
(WY)	1987	1987	1987	1987	1997	1997	1987	1993	1995	1992	1988	1988
MIN	.000	.000	.000	.000	.000	.87	.86	3.32	.005	.003	.000	.000
(WY)	1990	1990	1990	1990	1990	1990	1990	1990	1990	1989	1990	1984

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1984 - 1998	
ANNUAL TOTAL	14525.89		10248.43			
ANNUAL MEAN	39.8		28.1		26.1	
HIGHEST ANNUAL MEAN					49.9	1993
LOWEST ANNUAL MEAN					.43	1990
HIGHEST DAILY MEAN	347	May 22	373	Apr 24	555	Apr 2 1986
LOWEST DAILY MEAN	a.00	Jul 6	a.00	Jul 2	a.00	Jul 11 1984
ANNUAL SEVEN-DAY MINIMUM	.01	Aug 9	.00	Jul 2	.00	Aug 30 1984
INSTANTANEOUS PEAK FLOW			552	May 3	744	Apr 2 1986
INSTANTANEOUS PEAK STAGE			6.27	May 3	7.23	Apr 2 1986
ANNUAL RUNOFF (AC-FT)	28810		20330		18870	
10 PERCENT EXCEEDS	155		96		95	
50 PERCENT EXCEEDS	4.5		4.0		1.0	
90 PERCENT EXCEEDS	.09		.00		.00	

e-Estimated.
a-No flow many days each year.

09168730 DOLORES RIVER NEAR SLICK ROCK, CO

LOCATION.--Lat 38°02'40", long 108°54'17", in NE¼SE¼ 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 mi^2.

PERIOD OF RECORD.--May 1997 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 good 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 during period of seasonal operation, 3,740 ft^3/s May 7, 1998, gage height 10.18 ft; minimum daily, 40 ft^3/s, Mar. 1, 1998.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major flows occurred in Oct. 1911, Sept. 1970, and Apr. 1973. Minimum flow not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 3,740 ft^3/s at 0945 May 7, gage height 10.18 ft; minimum daily, 40 ft^3/s, Mar. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	40	e210	3330	1530	---	---	---
2	---	---	---	---	---	44	355	3450	1200	---	---	---
3	---	---	---	---	---	50	619	3420	1230	---	---	---
4	---	---	---	---	---	50	765	3380	1210	---	---	---
5	---	---	---	---	---	49	1010	3340	887	---	---	---
6	---	---	---	---	---	54	1120	3350	840	---	---	---
7	---	---	---	---	---	63	1080	3660	831	---	---	---
8	---	---	---	---	---	60	1020	3180	822	---	---	---
9	---	---	---	---	---	51	1010	2620	818	---	---	---
10	---	---	---	---	---	51	1010	2100	814	---	---	---
11	---	---	---	---	---	50	1150	1740	810	---	---	---
12	---	---	---	---	---	50	1580	1280	803	---	---	---
13	---	---	---	---	---	54	1370	1030	623	---	---	---
14	---	---	---	---	---	62	1250	970	576	---	---	---
15	---	---	---	---	---	68	1190	980	437	---	---	---
16	---	---	---	---	---	72	1130	1250	420	---	---	---
17	---	---	---	---	---	78	1090	1240	283	---	---	---
18	---	---	---	---	---	84	1090	1240	233	---	---	---
19	---	---	---	---	---	83	1100	1260	198	---	---	---
20	---	---	---	---	---	73	1230	1270	140	---	---	---
21	---	---	---	---	---	72	1490	1650	127	---	---	---
22	---	---	---	---	---	73	1740	2020	122	---	---	---
23	---	---	---	---	---	84	1960	2510	119	---	---	---
24	---	---	---	---	---	116	2410	2230	116	---	---	---
25	---	---	---	---	---	201	2340	1980	114	---	---	---
26	---	---	---	---	---	337	2130	1700	112	---	---	---
27	---	---	---	---	---	e330	2390	1340	112	---	---	---
28	---	---	---	---	---	e290	2770	1130	111	---	---	---
29	---	---	---	---	---	e200	2880	1310	109	---	---	---
30	---	---	---	---	---	e150	3170	1440	108	---	---	---
31	---	---	---	---	---	e150	---	1540	---	---	---	---
TOTAL	---	---	---	---	---	3189	43659	62940	15855	---	---	---
MEAN	---	---	---	---	---	103	1455	2030	529	---	---	---
MAX	---	---	---	---	---	337	3170	3660	1530	---	---	---
MIN	---	---	---	---	---	40	210	970	108	---	---	---
AC-FT	---	---	---	---	---	6330	86600	124800	31450	---	---	---

e-Estimated.

09169500 DOLORES RIVER AT BEDROCK, CO

LOCATION.--Lat 38°18'37", long 108°53'05", in NW¼SW¼ 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 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	66	60	e54	53	50	175	3230	1450	124	114	101
2	84	62	57	e54	60	49	261	3370	1250	120	106	105
3	158	60	59	e54	51	50	428	3410	1060	116	98	176
4	191	60	56	e54	55	56	681	3380	1130	112	93	105
5	103	60	58	e54	57	60	858	3330	981	111	89	91
6	68	61	e58	e54	58	61	1080	3330	805	112	87	85
7	87	61	45	e54	62	67	1120	3560	789	117	87	80
8	240	59	60	e54	63	67	1070	3420	774	129	86	79
9	206	65	70	e54	63	72	1030	2840	770	124	85	78
10	110	71	65	48	58	67	1020	2290	764	124	84	78
11	81	72	48	e54	56	59	1070	1930	761	146	87	80
12	70	88	43	e54	52	57	1440	1480	758	124	91	133
13	69	82	e50	e54	50	56	1540	1120	687	117	93	157
14	69	70	48	e54	55	57	1300	962	567	112	93	141
15	71	60	60	e50	59	67	1250	945	513	108	94	105
16	72	53	e70	54	58	74	1180	1090	424	106	96	91
17	72	52	e70	e54	59	80	1120	1190	397	105	97	88
18	70	52	e70	e54	56	93	1090	1180	284	99	94	86
19	68	48	e70	e54	54	90	1100	1200	251	87	93	85
20	68	47	e70	e54	52	92	1150	1210	219	85	93	80
21	67	54	e70	54	52	81	1400	1460	177	85	95	76
22	67	50	e70	e54	54	83	1700	1840	164	91	100	73
23	66	47	e70	e53	52	87	1970	2300	155	91	102	75
24	68	46	e70	52	55	101	2370	2350	148	113	107	70
25	68	46	e70	58	55	141	2450	2050	143	107	103	64
26	71	48	e60	60	57	255	2230	1820	139	147	114	59
27	74	53	e54	56	59	417	2330	1440	137	219	105	58
28	69	57	e54	54	55	397	2660	1090	134	140	105	57
29	67	60	e54	55	---	342	2890	1080	132	186	99	58
30	67	65	41	58	---	244	3020	1300	128	165	97	60
31	66	---	57	57	---	187	---	1390	---	127	96	---
TOTAL	2791	1775	1857	1681	1570	3659	42983	62587	16091	3749	2983	2674
MEAN	90.0	59.2	59.9	54.2	56.1	118	1433	2019	536	121	96.2	89.1
MAX	240	88	70	60	63	417	3020	3560	1450	219	114	176
MIN	66	46	41	48	50	49	175	945	128	85	84	57
AC-FT	5540	3520	3680	3330	3110	7260	85260	124100	31920	7440	5920	5300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1998, BY WATER YEAR (WY)

MEAN	93.3	92.0	74.6	72.8	83.2	278	1046	1478	780	165	99.8	90.8
MAX	257	399	254	198	181	774	2551	3243	1794	626	242	171
(WY)	1987	1987	1987	1985	1987	1985	1993	1993	1995	1995	1987	1986
MIN	32.7	34.3	29.7	31.6	45.4	45.2	27.6	29.8	16.4	48.0	43.8	51.1
(WY)	1992	1991	1991	1991	1991	1990	1990	1990	1990	1990	1990	1991

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1985 - 1998	
ANNUAL TOTAL	217679		144400			
ANNUAL MEAN	596		396		a363	
HIGHEST ANNUAL MEAN					724	1993
LOWEST ANNUAL MEAN					53.5	1990
HIGHEST DAILY MEAN	3620	May 25	3560	May 7	4690	May 5 1986
LOWEST DAILY MEAN	41	Dec 30	41	Dec 30	b4.0	Jun 21 1990
ANNUAL SEVEN-DAY MINIMUM	48	Nov 19	48	Nov 19	8.6	Jun 15 1990
INSTANTANEOUS PEAK FLOW			3740	May 7	c5230	May 5 1986
INSTANTANEOUS PEAK STAGE			7.88	May 7	9.12	May 5 1986
ANNUAL RUNOFF (AC-FT)	431800		286400		263200	
10 PERCENT EXCEEDS	2620		1250		1210	
50 PERCENT EXCEEDS	123		85		80	
90 PERCENT EXCEEDS	60		54		40	

e-Estimated.
a-Average discharge for 17 years (water years 1918-22, 1972-83), 497 ft^3/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 ft^3/s, Apr 30, 1973, gage height, 12.09 ft, from floodmarks.

09169500 DOLORES RIVER AT BEDROCK, CO--Continued

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 Oct. 1-7, and Mar. 19 to May 27, which is poor. Water temperature record is good.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 6,970 microsiemens Aug. 14, 1987; minimum, 140 microsiemens 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 recorded, 3,010 microsiemens Sept. 6; minimum recorded, 270 microsiemens May 24.
WATER TEMPERATURE: Maximum recorded, 29.2°C July 17; minimum recorded, 0.0°C many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH FIELD (STAND-ARD UNITS) (00400)	pH LAB (STAND-ARD UNITS) (00403)	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)
OCT										
07...	1020	61	825	8.2	8.1	14.8	210	56	17	84
NOV										
18...	1225	53	858	8.3	8.1	1.5	220	57	19	93
JAN										
15...	0940	49	932	8.1	8.0	0.0	230	56	22	100
MAR										
03...	1225	52	1010	8.3	8.2	4.5	270	65	26	110
APR										
07...	0920	1140	396	8.3	7.9	6.5	150	41	12	19
MAY										
27...	0945	1570	304	8.4	8.2	11.5	130	37	7.9	12
JUL										
08...	1400	127	533	--	8.3	25.0	140	39	9.5	53
AUG										
05...	1115	89	794	--	8.2	22.5	260	77	17	58
SEP										
03...	1345	181	395	--	8.1	23.0	120	34	7.6	28

DATE	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, 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										
07...	3	3.9	123	140	97	0.1	4.8	474	0.64	78.0
NOV										
18...	3	3.6	143	130	110	0.1	5.0	510	0.69	73.0
JAN										
15...	3	3.7	137	150	130	0.2	5.4	550	0.75	72.8
MAR										
03...	3	3.8	147	200	120	0.2	4.9	615	0.84	86.4
APR										
07...	0.7	2.1	--	87	9.8	0.1	5.6	--	--	--
MAY										
27...	0.5	1.5	106	41	9.1	<0.1	5.0	178	0.24	754
JUL										
08...	2	3.0	111	33	76	0.1	2.8	283	0.38	97.0
AUG										
05...	2	3.9	--	190	66	0.2	5.4	--	--	--
SEP										
03...	1	2.2	104	27	42	0.1	2.7	206	0.28	101

09169500 DOLORES RIVER AT BEDROCK, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	737	702	718	913	884	893	938	854	899	941	890	908
2	707	689	700	887	861	873	1010	886	953	1030	906	985
3	689	638	668	934	884	920	975	934	954	1010	912	967
4	662	542	580	969	930	951	1090	972	1010	940	834	893
5	619	568	586	966	916	933	1200	1050	1120	834	801	817
6	838	616	669	932	846	904	1110	944	1040	803	771	790
7	1980	743	1020	869	810	847	1110	967	1030	822	767	784
8	2310	893	1600	840	805	821	1100	996	1030	838	754	807
9	1410	466	787	844	822	833	1120	1080	1100	820	766	799
10	737	529	610	934	807	860	1100	1020	1070	798	745	760
11	1660	737	969	807	756	793	1020	902	962	1180	747	860
12	2000	1660	1950	759	679	731	1030	924	988	1160	785	994
13	1960	1700	1860	847	723	752	1110	1020	1080	1000	917	952
14	1700	1340	1480	875	718	768	1170	1080	1100	987	670	880
15	1340	1100	1210	874	823	837	1120	1040	1070	966	652	875
16	1100	963	1010	856	823	838	1160	1020	1110	993	698	932
17	991	932	959	843	801	822	1140	972	1080	1010	937	962
18	1030	988	1010	918	838	874	1090	973	1030	1050	954	999
19	999	928	969	922	861	888	976	803	913	1100	886	980
20	1020	878	930	969	862	927	842	762	803	1060	888	972
21	1020	952	977	990	968	980	815	745	784	1160	839	990
22	986	933	967	994	936	980	804	726	767	1200	918	1040
23	946	930	938	990	884	945	785	733	759	1260	970	1090
24	937	906	920	955	874	917	778	729	757	1120	986	1050
25	990	889	923	985	872	927	775	739	753	1180	939	1040
26	890	855	870	1010	869	952	818	745	777	1240	991	1070
27	855	841	847	1020	930	980	906	801	873	1240	1010	1100
28	873	845	858	1010	944	975	939	841	877	1100	972	1020
29	888	869	878	1040	892	959	946	820	884	1030	933	977
30	893	875	883	934	838	894	896	860	878	1040	914	987
31	912	880	894	---	---	---	946	862	906	1050	830	962
MONTH	2310	466	975	1040	679	886	1200	726	947	1260	652	943
		FEBRUARY			MARCH			APRIL			MAY	
1	1100	772	935	1030	941	983	731	703	718	314	310	313
2	1160	838	982	1060	943	983	817	729	774	319	308	313
3	1170	808	987	1080	978	1020	797	540	697	313	308	311
4	1190	783	996	1060	997	1040	560	425	501	315	310	313
5	1230	861	1030	1030	949	985	445	414	425	310	304	308
6	1170	934	1060	1040	914	977	443	405	413	308	297	304
7	1080	891	997	1070	831	940	407	348	397	300	288	294
8	1100	915	1000	1100	945	1000	415	397	405	296	288	292
9	1070	937	1010	1090	941	1000	425	407	412	306	294	298
10	1070	1030	1040	1120	1040	1080	415	402	408	319	306	311
11	1080	1050	1070	1120	1040	1070	420	403	407	326	319	322
12	1110	1050	1080	1080	1050	1070	426	379	390	351	325	338
13	1090	1030	1060	1130	1070	1100	388	362	372	394	351	368
14	1050	983	1020	1140	1030	1110	379	364	370	390	372	383
15	1080	1040	1060	1030	973	1000	395	379	386	409	377	386
16	1120	959	1060	1070	967	1020	404	394	399	389	340	370
17	1100	961	1020	1080	1040	1060	413	404	409	340	326	331
18	1140	916	1020	1110	1000	1060	425	413	418	326	317	320
19	1140	879	1010	1110	1040	1070	440	425	431	323	314	318
20	1130	884	1020	1070	1060	1060	458	439	448	323	312	316
21	1080	1020	1050	1080	1070	1080	464	411	452	316	299	309
22	1070	1040	1050	1090	1080	1080	411	346	377	304	291	295
23	1080	1020	1050	1090	996	1050	348	327	334	292	271	285
24	---	943	---	1070	947	1010	331	321	326	280	270	275
25	1040	983	1010	1020	866	938	328	317	323	293	278	285
26	1060	917	996	1100	947	1020	336	314	326	303	289	294
27	1050	949	989	1120	792	1010	336	322	328	319	303	309
28	1030	967	987	855	705	804	323	306	316	340	315	326
29	---	---	---	736	674	709	310	297	305	339	327	333
30	---	---	---	712	657	687	315	304	309	327	299	312
31	---	---	---	712	687	698	---	---	---	302	288	295
MONTH	---	772	---	1140	657	991	817	297	419	409	270	317

09169500 DOLORES RIVER AT BEDROCK, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	296	289	292	652	610	635	1910	1020	1280	524	454	487
2	308	289	295	619	595	611	2310	1170	1870	470	441	455
3	320	307	313	613	588	603	1430	1090	1170	468	370	409
4	316	298	303	609	570	593	1090	843	960	453	377	418
5	316	298	304	592	564	580	843	755	799	1260	449	696
6	339	316	331	576	543	564	770	702	736	3010	1160	2010
7	341	336	338	578	510	548	707	671	698	2870	1590	2280
8	340	335	338	595	503	538	682	642	672	1590	930	1190
9	338	333	336	522	491	506	651	617	642	930	748	833
10	336	329	332	543	488	507	629	600	620	748	675	709
11	332	326	328	601	489	522	623	599	611	675	625	647
12	326	319	323	668	496	555	606	588	601	625	403	579
13	335	320	325	627	505	551	588	548	577	1110	470	594
14	361	334	347	640	617	623	562	540	554	485	414	463
15	380	357	363	719	640	681	561	525	550	1300	414	500
16	403	380	389	698	665	683	542	511	532	2190	1140	1680
17	428	403	411	677	629	662	594	510	540	2190	931	1510
18	468	428	450	631	590	620	563	494	517	2050	944	1390
19	519	465	484	608	584	598	519	483	505	944	701	793
20	561	519	534	586	565	580	493	471	486	701	633	668
21	628	561	599	573	552	563	507	471	494	633	600	624
22	650	628	641	562	531	550	492	480	485	644	596	615
23	700	650	674	540	525	535	485	446	466	685	601	661
24	721	700	712	827	509	544	469	442	457	601	588	593
25	725	713	720	901	523	603	743	447	529	590	575	585
26	728	704	717	525	437	481	481	444	458	575	549	565
27	710	685	702	714	413	530	451	433	444	575	522	556
28	697	680	690	927	505	615	449	428	441	560	536	553
29	697	656	679	2680	787	1550	715	429	495	570	536	557
30	664	648	657	2040	1030	1330	752	505	647	577	557	569
31	---	---	---	2030	1030	1630	505	467	484	---	---	---
MONTH	728	289	464	2680	413	667	2310	428	655	3010	370	806

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.8	15.8	17.8	9.7	6.7	8.2	3.2	2.0	2.6	.3	.0	.1
2	19.8	16.5	18.2	8.4	5.1	6.8	4.9	3.1	3.9	.2	.0	.1
3	20.2	16.5	18.2	7.2	4.3	6.0	4.7	2.2	3.5	.4	.0	.1
4	18.6	15.5	17.2	8.0	4.4	6.2	2.2	.2	1.2	.4	.0	.1
5	19.1	15.5	17.2	7.8	4.7	6.2	.7	.0	.2	.5	.0	.2
6	18.7	15.0	16.9	7.9	4.4	6.1	.8	.0	.2	.5	.0	.1
7	17.4	13.2	15.6	7.5	4.2	6.0	1.3	.1	.6	.3	.0	.1
8	13.7	11.5	12.7	8.1	5.0	6.4	2.2	1.0	1.5	.5	.0	.1
9	13.9	10.5	12.1	7.1	6.4	6.7	1.9	.7	1.3	.5	.0	.1
10	14.1	11.0	12.5	7.2	6.1	6.6	1.8	.2	1.1	.3	.0	.1
11	13.2	11.6	12.3	7.6	6.2	6.8	.9	.0	.2	.6	.0	.2
12	11.6	8.7	10.3	7.5	5.7	6.5	.8	.0	.2	.9	.0	.3
13	10.7	6.4	8.5	7.0	5.6	6.2	.8	.0	.2	.5	.0	.2
14	11.2	6.7	9.0	6.1	3.9	5.3	.6	.0	.1	.9	.0	.3
15	11.9	7.6	9.8	4.3	1.7	3.0	.3	.0	.1	.4	.0	.1
16	12.4	8.3	10.4	2.2	.7	1.4	.6	.0	.1	1.1	.0	.3
17	12.8	8.6	10.8	2.7	.1	1.3	.7	.0	.1	1.0	.0	.4
18	13.0	8.9	11.1	2.5	.1	1.4	.4	.0	.1	1.4	.0	.5
19	12.9	9.0	11.1	3.6	.9	2.3	.6	.0	.1	.7	.0	.3
20	12.5	9.3	11.0	3.4	1.8	2.6	.5	.0	.1	1.6	.0	.6
21	12.7	8.9	10.8	2.9	1.6	2.3	.3	.0	.1	.9	.0	.2
22	12.0	8.4	10.4	3.5	.6	1.9	.5	.0	.1	.3	.0	.1
23	10.8	8.2	9.6	3.1	.4	1.7	.5	.0	.1	.9	.0	.2
24	9.6	8.4	8.9	2.7	.2	1.4	.3	.0	.1	1.2	.0	.3
25	8.5	6.8	7.6	3.2	.8	1.9	.3	.0	.1	1.1	.0	.4
26	7.9	4.5	6.3	3.5	2.5	2.8	.3	.0	.0	1.2	.0	.4
27	8.0	4.3	6.2	4.6	3.3	4.0	.1	.0	.0	1.1	.0	.4
28	8.5	4.6	6.7	5.3	3.0	4.1	.2	.0	.0	1.4	.0	.5
29	8.6	5.3	7.2	4.2	1.6	2.9	.2	.0	.0	1.1	.0	.4
30	9.7	6.0	7.9	3.3	.9	2.2	.4	.0	.1	2.8	.0	1.2
31	9.8	5.9	8.1	---	---	---	.4	.0	.1	2.3	.4	1.4
MONTH	20.2	4.3	11.4	9.7	.1	4.2	4.9	.0	.6	2.8	.0	.3

09169500 DOLORES RIVER AT BEDROCK, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.8	.0	.7	4.1	.0	2.1	9.4	6.7	8.2	10.7	8.4	9.5
2	.7	.0	.2	4.6	.5	2.7	8.6	6.6	7.6	10.8	8.5	9.5
3	2.5	.1	1.2	7.3	2.4	4.8	9.1	6.5	7.7	11.1	8.8	9.8
4	2.3	.2	1.3	7.0	4.0	5.3	8.3	6.7	7.6	10.9	8.6	9.6
5	2.9	.3	1.6	7.7	3.5	5.7	9.9	6.5	8.1	10.4	8.5	9.3
6	2.9	.0	1.6	7.9	5.6	6.7	9.1	7.2	8.0	9.9	8.1	9.0
7	2.6	.9	1.8	8.4	5.1	6.4	8.0	5.6	6.9	9.9	7.4	8.5
8	2.0	.1	.7	7.2	3.0	5.1	7.6	4.6	6.1	9.3	7.7	8.5
9	2.7	.0	1.2	7.7	2.9	5.2	8.8	5.5	7.0	9.6	7.1	8.3
10	3.7	.1	2.0	7.9	2.9	5.4	9.9	5.9	7.7	11.4	8.9	10.0
11	2.3	.4	1.4	8.0	4.0	6.1	11.1	7.2	8.9	11.4	9.4	10.6
12	3.8	.0	1.8	9.8	4.4	7.0	9.1	7.9	8.6	11.8	10.0	10.9
13	2.3	.6	1.7	10.4	5.5	8.0	8.5	7.0	7.7	12.1	10.5	11.2
14	4.5	1.8	3.0	10.3	6.4	8.5	7.4	6.8	7.0	13.4	10.0	11.5
15	4.0	2.7	3.4	11.9	6.9	9.3	7.6	6.9	7.2	13.8	9.9	11.8
16	4.7	2.0	3.4	12.0	7.2	9.6	7.4	6.4	6.8	12.4	10.4	11.4
17	5.1	3.2	4.1	10.9	7.5	9.3	7.0	6.0	6.5	13.2	10.2	11.6
18	5.2	2.8	3.9	9.8	6.7	8.1	8.0	6.3	6.9	13.9	10.9	12.3
19	5.9	2.1	4.0	9.4	4.7	7.0	8.8	6.9	7.7	13.8	11.7	12.8
20	6.0	3.1	4.4	10.5	5.5	7.8	9.5	7.7	8.5	13.3	11.6	12.5
21	6.4	2.7	4.5	11.7	6.3	8.9	11.0	8.4	9.1	13.8	11.2	12.5
22	5.3	3.3	4.4	12.5	7.5	10.0	10.5	8.8	9.5	12.7	11.0	11.7
23	5.0	3.4	4.3	14.1	9.2	11.5	10.4	8.9	9.7	12.0	9.5	10.9
24	5.8	3.8	4.8	13.8	9.8	11.8	10.4	9.5	10.0	11.7	9.2	10.6
25	6.4	3.4	4.7	14.5	10.5	12.2	10.1	8.9	9.2	12.3	9.5	10.9
26	5.0	1.8	3.4	11.8	10.1	10.9	9.1	7.6	8.4	12.9	10.7	11.8
27	4.5	1.5	2.8	10.4	9.3	9.9	9.7	7.5	8.7	14.2	11.3	12.6
28	4.4	.4	2.2	9.3	8.1	8.5	10.2	8.4	9.2	16.1	12.6	14.2
29	---	---	---	8.6	7.0	7.8	10.1	7.9	8.9	16.9	13.5	15.0
30	---	---	---	7.2	5.1	6.3	10.8	8.2	9.4	15.8	13.8	14.7
31	---	---	---	9.0	5.0	7.0	---	---	---	14.1	12.9	13.5
MONTH	6.4	.0	2.7	14.5	.0	7.6	11.1	4.6	8.1	16.9	7.1	11.2
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.7	12.7	13.5	26.1	21.2	23.4	24.5	21.9	23.1	23.0	21.0	21.9
2	15.4	12.7	13.9	26.7	21.5	23.8	24.8	19.9	22.2	24.4	19.6	21.8
3	16.5	13.5	14.7	27.3	21.9	24.3	25.3	20.9	22.9	24.6	20.5	22.6
4	14.1	11.9	13.3	26.9	23.4	25.0	25.2	20.9	22.8	25.0	22.0	23.3
5	15.1	11.4	12.8	26.9	22.3	24.4	26.0	21.0	23.3	24.6	21.5	23.0
6	14.9	11.6	13.3	27.4	23.2	25.2	26.5	21.4	23.7	25.0	21.3	23.1
7	16.0	12.3	14.1	25.5	22.8	24.1	26.7	21.4	23.8	24.5	21.0	22.7
8	15.3	12.5	14.0	26.1	21.4	23.5	25.8	21.9	23.7	24.1	21.3	22.7
9	15.4	12.5	14.1	24.8	22.8	23.7	24.9	21.8	23.5	22.5	20.1	21.1
10	15.1	13.1	14.2	26.4	22.2	24.0	23.5	22.1	22.7	20.7	19.3	19.8
11	15.0	12.4	13.8	25.8	22.9	24.1	24.6	20.6	22.6	21.2	18.5	19.7
12	16.1	11.7	13.9	26.8	21.9	24.1	25.3	20.7	22.9	20.8	17.0	19.5
13	16.5	13.2	14.9	25.9	22.7	24.2	25.5	21.2	23.1	20.3	15.4	18.4
14	16.7	14.1	15.4	27.4	21.8	24.3	25.4	21.0	23.1	22.2	17.7	19.9
15	18.3	14.1	16.2	28.1	22.5	25.0	25.7	21.5	23.4	21.7	18.6	20.2
16	17.3	15.4	16.3	28.5	23.1	25.5	24.5	21.5	23.0	21.7	17.8	19.7
17	18.1	14.3	16.1	29.2	23.4	26.0	25.0	21.3	22.9	22.4	17.7	19.8
18	19.6	14.6	17.2	29.1	23.8	26.3	24.1	21.8	22.9	20.9	18.0	19.6
19	20.9	16.0	18.5	29.1	24.2	26.5	24.9	20.0	22.3	20.9	17.1	18.9
20	19.5	17.0	18.6	29.0	23.9	26.2	24.1	20.9	22.6	19.4	16.1	17.7
21	21.5	17.0	19.1	28.1	24.0	25.9	24.2	21.6	22.8	19.1	15.7	17.3
22	21.8	17.1	19.3	28.1	24.3	26.1	24.9	21.0	23.0	17.7	14.4	16.3
23	22.0	17.5	19.5	26.8	23.5	25.2	25.9	22.0	23.8	18.5	16.0	17.1
24	22.3	17.6	19.8	25.3	23.0	24.0	25.6	22.4	23.8	19.4	15.6	17.5
25	22.3	17.8	19.9	26.0	22.4	24.1	23.5	21.8	22.7	18.3	15.4	16.9
26	23.9	18.4	20.8	25.6	22.4	23.8	25.4	21.0	22.9	18.1	14.5	16.2
27	24.8	19.4	21.8	25.4	23.3	24.1	26.1	22.3	23.9	17.9	13.9	15.9
28	25.9	20.5	22.9	24.0	22.2	22.9	25.4	20.5	22.9	17.7	14.0	16.1
29	26.9	21.1	23.7	24.8	21.3	23.0	25.7	21.0	23.2	19.6	16.0	17.7
30	26.6	21.7	23.9	24.9	21.7	23.3	25.6	20.7	23.0	19.7	16.3	18.0
31	---	---	---	25.5	22.6	23.8	23.6	21.2	22.4	---	---	---
MONTH	26.9	11.4	17.0	29.2	21.2	24.5	26.7	19.9	23.1	25.0	13.9	19.5

09170800 WEST PARADOX CREEK ABOVE BEDROCK, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°19'54", long 108°53'59", in NE¼NW¼ 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 mi^2.

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 1997 TO SEPTEMBER 1998

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	pH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	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)
OCT									
07...	0815	1140	8.4	8.2	12.0	560	110	68	32
NOV									
18...	1115	1040	8.5	8.1	2.5	520	100	65	31
JAN									
15...	0805	1220	8.5	8.1	1.5	610	120	79	37
MAR									
03...	1055	1200	8.6	8.2	4.5	630	120	81	34
APR									
07...	1300	722	8.2	8.1	8.0	320	64	40	20
MAY									
27...	0715	608	8.6	8.0	12.0	290	61	33	17
JUL									
08...	1150	704	--	8.1	19.5	340	73	38	19
SEP									
03...	1210	1260	--	8.0	18.0	640	140	72	34

DATE	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)
OCT									
07...	0.6	3.4	224	360	28	0.3	11	755	1.03
NOV									
18...	0.6	3.2	234	340	28	0.3	11	717	0.98
JAN									
15...	0.7	3.3	239	430	35	0.4	13	855	1.16
MAR									
03...	0.6	3.0	232	410	31	0.4	11	833	1.13
APR									
07...	0.5	2.6	155	220	18	0.2	10	466	0.63
MAY									
27...	0.4	2.2	147	160	16	0.2	8.4	385	0.52
JUL									
08...	0.4	2.3	164	180	16	0.3	8.1	438	0.60
SEP									
03...	0.6	3.4	226	410	33	0.4	11	840	1.14

09171100 DOLORES RIVER NEAR BEDROCK, CO

LOCATION.--Lat 38°21'29", long 108°49'54", in SW¼NW¼ sec.2, T.47 N., R.18 W., Montrose County, Hydrologic Unit 14030002, on right bank 2.5 mi downstream from West Paradox Creek and 4.3 mi northeast of Bedrock.

DRAINAGE AREA.--2,145 mi^2.

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 400 ft upstream at datum 1.02 ft higher.

REMARKS.--Records fair except for estimated daily discharges, 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 in use prior to Feb. 17, 1972 (discharge, 5,710 ft^3/s), by slope-area measurement at site 1,400 ft upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	74	67	e60	61	61	207	3100	1540	114	121	96
2	85	70	65	e60	75	60	270	3220	1390	110	114	98
3	138	67	64	e60	63	57	409	3170	1180	107	104	171
4	207	67	63	e60	66	59	683	3380	1260	107	100	102
5	119	68	60	e60	71	66	829	3260	1120	107	95	86
6	76	68	58	e60	68	68	1070	3260	884	109	94	80
7	74	68	56	e60	74	76	1100	3490	863	111	94	76
8	271	68	62	e60	72	75	1030	3430	845	120	93	73
9	242	72	76	e58	76	80	983	2850	846	119	92	73
10	135	76	70	e58	69	69	966	2260	837	118	91	75
11	102	80	58	e60	67	66	1010	1930	830	138	92	78
12	87	97	49	e60	66	66	1350	1550	826	121	93	126
13	84	90	46	e60	61	65	1490	1220	757	112	90	170
14	82	77	52	e52	64	67	1240	1040	601	107	89	138
15	84	68	57	e52	69	75	1180	1020	553	103	90	105
16	85	60	77	e60	71	84	1100	1160	431	100	92	90
17	85	59	80	e60	69	92	1030	1300	411	99	93	87
18	85	55	84	e60	65	107	987	1300	297	96	90	85
19	81	53	79	e60	67	105	998	1310	262	84	89	85
20	81	51	77	e60	64	105	1040	1320	230	81	89	80
21	80	57	71	60	62	97	1260	1520	168	80	91	76
22	79	55	76	61	63	98	1540	1900	147	85	95	74
23	78	54	80	e60	64	107	1780	2390	137	87	97	76
24	80	53	73	57	65	125	2150	2500	131	104	100	71
25	81	53	80	63	66	168	2270	2150	127	100	100	63
26	80	56	63	65	66	295	2070	1900	125	140	108	60
27	85	58	e60	65	68	474	2130	1540	122	224	100	57
28	80	63	e60	65	65	480	2430	1220	122	157	99	57
29	77	65	e50	61	---	405	2720	1180	121	201	92	58
30	75	70	e50	71	---	302	2880	1390	118	177	91	60
31	75	---	e60	67	---	223	---	1480	---	137	90	---
TOTAL	3158	1972	2023	1875	1877	4277	40202	63740	17281	3655	2968	2626
MEAN	102	65.7	65.3	60.5	67.0	138	1340	2056	576	118	95.7	87.5
MAX	271	97	84	71	76	480	2880	3490	1540	224	121	171
MIN	74	51	46	52	61	57	207	1020	118	80	89	57
AC-FT	6260	3910	4010	3720	3720	8480	79740	126400	34280	7250	5890	5210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1998, BY WATER YEAR (WY)

MEAN	101	100	79.7	80.0	94.5	290	1065	1485	789	172	105	97.9
MAX	269	430	262	208	207	811	2552	3219	1766	677	274	204
(WY)	1987	1987	1987	1985	1987	1985	1985	1993	1995	1995	1987	1986
MIN	33.3	38.8	33.1	34.5	48.3	46.6	27.3	30.4	16.0	44.9	44.7	53.0
(WY)	1992	1991	1991	1991	1991	1990	1990	1990	1990	1990	1990	1991

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1985 - 1998	
ANNUAL TOTAL	219074		145654			
ANNUAL MEAN	600		399		a372	
HIGHEST ANNUAL MEAN					711	1993
LOWEST ANNUAL MEAN					55.3	1990
HIGHEST DAILY MEAN	3910	May 25	3490	May 7	4550	May 6 1986
LOWEST DAILY MEAN	46	Dec 13	46	Dec 13	b7.1	Jun 21 1990
ANNUAL SEVEN-DAY MINIMUM	54	Nov 19	54	Nov 19	10	Jun 16 1990
INSTANTANEOUS PEAK FLOW			3940	May 7	c5260	May 6 1986
INSTANTANEOUS PEAK STAGE			9.64	May 7	10.82	May 6 1986
ANNUAL RUNOFF (AC-FT)	434500		288900		269500	
10 PERCENT EXCEEDS	2570		1300		1260	
50 PERCENT EXCEEDS	122		87		87	
90 PERCENT EXCEEDS	66		60		44	

e-Estimated.
a-Average discharge for 12 years (water years 1972-83), 502 ft^3/s; 363700 acre-ft/yr, prior to completion of McPhee Dam.
b-Minimum daily discharge for period of record, 0.12 ft^3/s, Jul 17-18, 1977.
c-Maximum discharge and stage for period of record, 9500 ft^3/s, Apr 30, 1973, gage height, 12.88 ft, from floodmarks.

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. 22-29, Apr. 7 to May 7, Sep. 3-30 which is fair and Dec. 9 to Jan. 16, May 22-27 which is poor. Daily water temperature record is good.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 57,700 microsiemens, June 22, 1990 (may have been higher June 19-22, 1990 when probe was out of water); minimum recorded, 256 microsiemens, June 23, 1995 (may have been lower during period of missing record Apr. 3-20, 1993).
WATER TEMPERATURE: Maximum, 33.3°C, July 1, 1990; 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 17,200 microsiemens, Dec. 11; minimum recorded, 300 microsiemens, May 23.
WATER TEMPERATURE: Maximum, 31.7°C, July 18; minimum, -0.5°C, Dec. 12.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH FIELD (STAND-ARD UNITS) (00400)	pH LAB (STAND-ARD UNITS) (00403)	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)
OCT										
07...	1230	69	3770	8.0	8.0	15.5	300	69	30	620
NOV										
18...	1435	55	4440	8.2	8.1	3.5	350	75	39	770
JAN										
15...	1115	41	7300	7.9	7.9	-0.3	470	93	58	1300
MAR										
03...	1350	60	4780	8.1	8.1	8.0	400	84	47	830
APR										
07...	1430	1090	453	7.9	7.9	9.0	150	42	12	29
MAY										
27...	1400	1600	317	8.3	8.2	14.0	130	38	8.1	14
JUL										
08...	0830	119	1870	--	7.9	20.5	180	45	16	280
AUG										
05...	0745	95	2210	--	7.5	19.5	330	92	24	290
SEP										
03...	1600	169	592	--	8.2	26.5	120	35	8.8	64

DATE	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, 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										
07...	16	30	134	150	1000	0.1	5.2	2010	2.73	375
NOV										
18...	18	37	157	200	1300	0.2	5.2	2470	3.36	367
JAN										
15...	27	64	158	310	2200	0.2	6.1	4120	5.60	456
MAR										
03...	18	41	159	270	1400	0.3	5.1	2740	3.73	444
APR										
07...	1	2.7	--	87	25	0.1	5.4	--	--	--
MAY										
27...	0.5	1.6	108	43	12	<0.1	5.2	186	0.25	803
JUL										
08...	9	16	138	63	460	0.1	3.0	964	1.31	310
AUG										
05...	7	15	152	250	460	0.2	5.7	1230	1.67	316
SEP										
03...	3	4.3	112	33	99	0.1	2.5	314	0.43	143

09171100 DOLORES RIVER NEAR BEDROCK, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	2450	2210	2310	3560	3210	3330	4160	3550	3910	5620	2790	3850
2	2420	2300	2350	3500	3230	3370	4410	4110	4260	3610	2770	3320
3	2360	1020	1650	3820	3450	3600	4440	4030	4260	3970	3480	3680
4	1040	777	874	3740	3510	3630	4890	4090	4410	3920	3420	3670
5	2090	842	1420	3660	3460	3570	7440	4110	5350	3580	3370	3470
6	3460	2090	2710	3650	3330	3490	9170	3890	5630	3780	2730	3270
7	3790	3460	3650	3610	3400	3520	7290	4060	5920	4910	2720	3590
8	3460	1270	1880	3560	3350	3450	7760	3510	6160	6170	3450	4380
9	1780	1080	1380	3740	3140	3390	4250	3470	3820	5890	4070	4770
10	1750	1080	1370	3140	2950	3080	4640	4150	4360	6090	3330	4580
11	2630	1750	2180	3240	2950	3080	17200	3490	5830	6130	3570	4510
12	3590	2630	3190	3150	2110	2460	15300	3350	5700	5000	3440	4080
13	3640	3520	3580	2780	2350	2610	12600	4510	8230	3760	3230	3560
14	3610	3400	3490	3290	2780	3160	9570	4180	6550	5430	2950	3970
15	3410	3020	3160	3970	3030	3410	6520	3330	5220	9220	2630	5000
16	3020	2740	2920	4410	3950	4130	5810	2620	4010	5860	3320	4180
17	2970	2700	2770	4490	4130	4360	4030	2990	3360	4550	3400	3970
18	2980	2790	2880	4790	4400	4540	3950	2620	3130	6490	2910	3840
19	3030	2890	2960	5600	4750	5080	4110	2740	3250	6470	2820	3670
20	3020	2840	2930	6330	4580	5330	4500	2390	3270	6250	2990	3760
21	3070	2890	2950	5280	3850	4490	5550	2720	3710	10400	2730	4520
22	3220	2940	3020	4820	4070	4510	4400	2730	3380	8480	2460	3990
23	3310	3170	3220	4830	4650	4740	4230	2140	3100	5710	3130	4440
24	3390	2990	3260	5030	4590	4770	4990	2760	3760	5750	4190	5060
25	3150	2980	3040	5230	4770	5000	4600	2430	3200	5760	2890	3680
26	3160	2950	3040	6070	4240	5110	6840	2700	4000	5710	2400	3600
27	2970	2730	2840	6440	3920	5010	5410	3430	4530	5370	2790	3650
28	3390	2970	3150	4700	3680	4170	6910	2250	4160	6110	2670	3670
29	3550	3370	3460	4090	3640	3860	5680	2680	4030	6010	2680	3710
30	3520	3330	3410	3860	3370	3580	5250	2960	4370	4140	2460	3290
31	3610	3320	3430	---	---	---	6590	3210	4750	4320	2770	3580
MONTH	3790	777	2720	6440	2110	3930	17200	2140	4500	10400	2400	3950
		FEBRUARY			MARCH			APRIL			MAY	
1	7170	2600	4070	5400	3990	4400	1440	1290	1370	329	317	324
2	3830	2190	2880	5250	4120	4500	1480	1040	1310	344	318	334
3	5000	2600	3850	5770	4710	5190	1040	794	931	336	320	328
4	6190	3010	4230	6110	3970	4880	794	566	664	336	323	331
5	4140	2820	3520	5190	3580	4090	566	528	544	333	313	324
6	4940	3330	3830	4320	3720	4150	550	488	510	331	314	327
7	3550	2750	3330	3720	3330	3470	492	450	465	330	307	317
8	4010	3350	3580	3580	3210	3360	465	420	436	319	310	314
9	3910	2980	3360	3550	2890	3120	436	418	426	325	314	320
10	4400	3550	3840	4720	3140	3730	436	427	430	332	325	329
11	4850	3510	3970	4880	3650	4130	434	414	428	345	331	339
12	5090	3570	4180	4740	3790	4140	437	398	418	379	343	358
13	5690	3830	4670	4740	3950	4280	416	358	388	422	379	398
14	5890	3600	4510	4600	3990	4220	383	365	372	438	422	433
15	5560	3880	4470	4290	3310	3680	383	376	379	446	430	437
16	5010	3430	4090	3340	2980	3110	380	371	375	441	395	421
17	4900	3910	4240	3060	2790	2920	385	377	381	395	367	372
18	5200	4030	4360	2850	2400	2600	396	384	391	373	360	366
19	5200	3560	4170	2840	2470	2600	410	394	401	371	358	364
20	5070	4140	4550	2890	2520	2710	411	392	400	373	353	362
21	5310	4090	4680	3220	2850	3030	392	363	379	363	332	350
22	5620	3910	4620	3420	2690	3050	365	336	350	334	317	325
23	4830	4010	4370	3330	2530	2880	345	319	332	338	300	323
24	5040	4040	4560	3080	2010	2440	343	317	328	324	308	313
25	4660	4090	4310	2470	1480	1850	346	317	332	314	306	310
26	4250	3890	4020	1640	1080	1290	345	316	331	319	311	315
27	4050	3510	3790	1200	907	1050	345	332	338	339	319	326
28	4490	3480	3920	907	786	828	334	316	325	380	339	353
29	---	---	---	864	771	816	327	311	320	382	366	373
30	---	---	---	1070	864	929	328	317	322	372	326	344
31	---	---	---	1290	1070	1180	---	---	---	339	320	326
MONTH	7170	2190	4070	6110	771	3050	1480	311	479	446	300	347

09171100 DOLORES RIVER NEAR BEDROCK, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	322	308	313	2650	2530	2600	2400	2140	2300	1120	1040	1090
2	335	307	318	2630	2520	2570	2620	2170	2340	1080	990	1040
3	360	334	351	2640	2470	2550	2640	2480	2560	1050	607	754
4	359	336	345	2590	2470	2520	2510	2340	2420	1030	659	859
5	393	339	352	2500	2350	2420	2340	2210	2260	1270	1030	1110
6	449	393	426	2370	2240	2300	2260	2160	2210	2740	1270	1820
7	466	447	458	2290	2090	2190	2220	2100	2150	3540	2740	3280
8	463	454	458	2100	1800	1950	2140	2020	2090	2870	1840	2270
9	462	452	457	1980	1820	1900	2150	2020	2070	1840	1570	1660
10	461	449	454	1990	1820	1910	2110	2050	2080	1570	1430	1480
11	455	441	448	1970	1200	1660	2080	1930	1990	1430	1350	1390
12	445	432	439	2020	1570	1860	1930	1860	1900	1460	793	1220
13	534	438	462	2090	2000	2040	1870	1710	1820	864	603	721
14	604	534	580	2280	2080	2180	1710	1570	1620	731	661	708
15	790	595	638	2400	2240	2300	1610	1460	1540	912	731	829
16	861	790	848	2410	2260	2330	1460	1360	1400	2490	912	1780
17	956	801	838	2390	2250	2310	1390	1290	1330	2050	1420	1660
18	1330	956	1210	2510	2180	2280	1400	1290	1350	2490	1730	2190
19	1580	1330	1470	2760	2510	2640	1350	1280	1310	1730	1250	1420
20	2130	1580	1720	2830	2580	2660	1330	1260	1290	1250	1190	1210
21	2610	2130	2390	2730	2540	2620	1350	1240	1270	1200	1130	1160
22	2720	2560	2620	2620	2070	2440	1340	1200	1230	1180	1120	1150
23	2810	2640	2700	2270	2050	2150	1210	1150	1180	1230	1180	1200
24	2830	2710	2780	2160	1410	1860	1170	1090	1130	1360	1200	1240
25	2850	2740	2800	2040	1620	1860	1340	924	1070	1380	1310	1350
26	2860	2710	2790	1920	1000	1330	1340	910	1080	1440	1310	1360
27	2820	2710	2770	1410	651	967	1050	985	1020	1490	1320	1400
28	2760	2620	2690	1390	826	1150	1030	988	1010	1440	1380	1410
29	2660	2530	2610	1730	1150	1270	1090	990	1040	1450	1400	1430
30	2640	2550	2590	2120	1670	1880	1360	1090	1270	1410	1350	1370
31	---	---	---	2140	1660	1830	1250	1080	1150	---	---	---
MONTH	2860	307	1310	2830	651	2080	2640	910	1630	3540	603	1390

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	22.3	14.2	17.9	11.5	6.1	8.3	4.3	2.0	2.9	-.2	-.3	-.2
2	22.4	15.3	18.2	10.4	3.7	6.7	6.0	3.0	4.1	-.2	-.2	-.2
3	21.6	16.4	18.4	9.5	2.9	6.1	5.9	1.7	3.6	-.2	-.2	-.2
4	20.1	14.5	17.3	10.2	2.8	6.3	4.1	-.2	1.4	-.1	-.2	-.2
5	21.2	14.2	17.4	10.4	3.7	6.5	1.0	-.2	.1	1.1	-.2	.2
6	20.5	13.6	16.9	10.4	3.0	6.3	1.3	-.2	.3	1.5	-.2	.2
7	16.4	13.1	14.7	10.0	3.1	6.2	2.8	-.1	1.3	-.2	-.2	-.2
8	14.4	11.7	12.9	10.6	4.4	6.9	3.8	1.0	2.0	-.2	-.2	-.2
9	14.9	9.9	12.3	7.4	6.2	6.8	2.4	.3	1.3	-.1	-.2	-.2
10	15.4	10.6	12.7	8.0	5.7	6.7	2.4	-.2	1.0	1.6	-.2	.5
11	14.0	10.6	12.0	8.3	5.9	6.9	.4	-.4	-.1	3.6	-.2	1.3
12	11.9	8.1	10.1	9.0	5.5	6.9	-.1	-.5	-.2	3.8	.3	1.5
13	13.2	5.3	8.8	8.0	5.5	6.5	-.1	-.4	-.2	1.6	-.2	.5
14	14.1	5.7	9.4	6.2	2.4	4.9	-.1	-.3	-.2	3.2	-.2	.7
15	14.8	6.5	10.2	6.0	.5	2.8	-.2	-.3	-.3	.9	-.2	.1
16	15.4	7.0	10.8	3.9	.4	1.7	-.2	-.3	-.2	3.1	-.2	.9
17	15.7	7.4	11.1	4.5	-.2	1.5	-.2	-.2	-.2	2.5	-.2	.8
18	15.8	7.6	11.3	4.7	-.2	1.8	-.2	-.2	-.2	3.4	-.2	.9
19	15.6	7.6	11.2	5.7	.4	2.9	-.2	-.2	-.2	2.4	-.2	.7
20	15.1	8.2	11.1	4.7	1.1	2.8	-.1	-.2	-.2	3.9	-.2	1.0
21	15.1	7.4	10.9	3.7	.6	2.0	-.2	-.2	-.2	2.1	-.2	.3
22	14.5	7.0	10.4	5.1	-.2	1.9	-.2	-.2	-.2	-.2	-.3	-.2
23	11.9	6.8	9.2	5.7	.0	2.2	-.1	-.2	-.2	.0	-.3	-.2
24	9.3	6.5	8.2	5.2	-.2	1.9	-.2	-.2	-.2	2.8	-.3	.7
25	9.9	5.3	7.1	6.0	.3	2.8	-.2	-.2	-.2	3.1	-.3	.7
26	10.5	3.4	6.5	4.4	2.5	3.4	-.2	-.3	-.2	3.1	-.3	.6
27	10.5	3.4	6.6	5.5	3.3	4.4	-.2	-.2	-.2	2.9	-.3	.6
28	11.2	3.8	7.0	7.1	2.6	4.5	-.1	-.3	-.2	3.1	-.3	.6
29	11.4	4.5	7.6	6.3	.9	3.3	-.2	-.3	-.2	2.1	-.3	.5
30	12.3	5.2	8.4	5.3	.5	2.6	-.2	-.3	-.2	6.2	-.2	2.3
31	11.8	5.0	8.3	---	---	---	-.2	-.3	-.2	5.4	1.2	2.7
MONTH	22.4	3.4	11.4	11.5	-.2	4.5	6.0	-.5	.4	6.2	-.3	.5

09171100 DOLORES RIVER NEAR BEDROCK, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.7	-.2	1.4	7.2	-.4	2.7	11.2	5.8	8.5	10.8	8.5	9.7
2	1.3	-.1	.6	7.6	-.4	3.3	8.3	6.5	7.5	11.2	8.5	9.8
3	4.7	-.2	2.0	10.4	1.3	5.4	10.1	6.3	7.8	11.5	8.8	10.1
4	3.9	.3	1.9	8.4	2.9	5.1	9.6	6.7	8.1	11.2	8.7	9.9
5	5.5	.6	2.6	10.7	2.3	6.0	10.0	6.4	8.3	10.8	8.4	9.7
6	6.0	-.3	2.7	11.1	5.0	7.2	9.1	7.4	8.3	10.2	8.4	9.3
7	5.0	1.8	3.1	9.8	4.1	6.4	9.0	6.4	7.4	10.2	7.4	8.8
8	2.5	.5	1.3	10.1	2.0	5.5	7.7	4.6	6.3	9.4	7.8	8.8
9	4.8	-.3	1.7	10.1	1.7	5.6	9.0	5.5	7.2	9.8	7.3	8.6
10	6.8	-.3	2.4	11.3	1.8	6.0	10.2	5.8	8.0	11.8	8.8	10.2
11	3.4	-.2	1.4	11.3	2.4	6.5	11.3	6.9	9.0	11.9	9.7	10.9
12	5.8	-.4	2.0	13.3	2.6	7.5	10.1	7.9	9.0	12.3	10.3	11.3
13	3.8	-.4	1.6	13.8	3.6	8.3	9.3	7.1	8.1	12.5	10.4	11.4
14	6.6	1.4	3.6	13.2	4.8	8.7	7.9	6.3	7.0	13.4	9.9	11.6
15	5.1	2.4	3.6	14.7	5.2	9.4	8.4	6.3	7.3	14.1	10.2	12.1
16	7.1	1.4	3.9	15.4	5.8	9.9	7.7	5.6	6.6	12.8	10.6	11.8
17	7.0	3.2	4.7	14.0	6.0	9.5	7.8	5.5	6.6	13.8	10.1	12.0
18	7.6	2.1	4.4	9.7	5.3	7.4	9.4	5.7	7.5	14.7	10.9	12.7
19	8.8	.7	4.3	12.8	4.2	7.8	10.0	6.3	8.1	14.8	11.6	13.1
20	8.8	2.5	5.0	13.4	4.0	8.3	11.2	7.4	9.2	14.5	12.0	13.1
21	8.9	1.2	4.7	14.6	5.0	9.4	11.7	7.9	9.7	14.5	11.2	12.7
22	7.0	2.6	4.6	15.1	6.4	10.3	11.4	8.4	9.9	12.9	11.3	12.1
23	7.8	3.4	5.2	16.8	8.1	12.0	11.3	8.9	10.0	12.2	10.1	11.2
24	7.2	3.7	5.1	16.0	8.5	11.9	10.8	9.8	10.2	12.2	9.4	10.9
25	7.0	3.0	4.5	15.8	9.3	12.1	10.3	8.8	9.5	12.5	9.9	11.3
26	6.9	.4	3.5	11.7	9.8	10.6	9.2	8.0	8.6	13.1	11.1	12.1
27	7.3	.3	3.2	10.4	9.0	9.7	10.0	8.0	8.9	14.4	11.7	12.9
28	7.2	-.4	2.6	9.0	7.8	8.4	10.3	8.6	9.5	16.6	12.5	14.5
29	---	---	---	9.0	6.4	7.4	10.3	8.1	9.2	17.2	13.6	15.3
30	---	---	---	8.7	5.0	6.7	11.0	8.3	9.6	16.9	13.8	15.2
31	---	---	---	11.4	4.6	7.5	---	---	---	15.1	13.0	14.0
MONTH	8.9	-.4	3.1	16.8	-.4	7.8	11.7	4.6	8.4	17.2	7.3	11.5
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.3	12.4	13.9	28.0	19.0	23.4	26.3	20.6	23.0	25.0	20.2	22.1
2	16.0	12.7	14.4	28.4	19.3	23.7	27.2	17.9	22.2	27.2	18.6	22.3
3	17.0	13.6	15.1	28.9	20.2	24.3	26.7	18.9	22.6	26.5	19.0	22.6
4	14.8	12.4	13.8	29.0	22.1	25.2	26.6	19.1	22.6	26.5	20.5	23.1
5	14.5	11.3	13.0	29.4	20.8	24.5	28.8	19.5	23.5	26.7	20.4	23.2
6	15.4	11.8	13.7	29.4	22.0	25.3	28.9	19.2	23.6	27.6	19.8	23.2
7	16.3	12.5	14.4	27.1	22.1	23.9	29.6	19.2	24.0	26.9	19.3	22.9
8	16.2	13.0	14.5	28.5	20.0	23.7	28.7	19.9	23.7	26.5	20.1	23.0
9	16.4	12.8	14.5	26.4	21.4	23.5	27.1	20.3	23.5	23.9	18.4	21.1
10	15.4	13.9	14.5	27.6	21.7	24.2	23.6	20.8	22.2	21.6	18.5	19.9
11	15.5	13.1	14.3	27.5	21.5	24.0	26.4	19.4	22.7	22.4	18.1	19.9
12	16.7	12.4	14.5	30.1	20.2	24.7	27.9	18.9	23.0	21.3	18.5	19.5
13	17.1	13.6	15.3	28.4	20.8	24.5	27.7	19.4	23.0	22.2	16.6	19.1
14	17.7	14.2	15.8	29.3	19.7	24.1	28.6	19.2	23.5	23.7	16.1	19.6
15	19.1	13.9	16.4	30.8	20.2	25.1	28.7	19.5	23.7	24.7	17.3	20.4
16	17.9	15.2	16.3	30.2	21.0	25.5	26.5	19.5	23.0	24.7	16.3	19.9
17	17.9	14.3	15.9	31.1	21.4	25.9	26.5	19.6	22.6	25.0	16.1	20.1
18	21.4	14.5	17.7	31.7	21.6	26.4	25.4	20.6	22.6	22.8	16.3	19.6
19	22.2	15.7	18.8	31.4	22.4	26.6	28.1	18.3	22.7	22.8	15.4	18.9
20	21.8	16.3	18.8	31.2	22.1	26.2	26.8	19.1	22.4	21.2	14.5	17.5
21	22.9	16.2	19.4	30.2	21.7	25.6	26.6	20.6	23.0	20.5	14.0	16.9
22	23.8	15.6	19.4	30.9	23.0	25.8	28.7	20.2	23.9	20.1	13.0	16.5
23	23.8	15.5	19.3	29.9	23.1	25.6	28.1	20.1	23.9	21.5	14.9	17.3
24	24.3	15.6	19.8	27.7	22.4	24.5	28.5	21.6	24.2	21.7	13.9	17.6
25	23.9	15.7	19.8	27.0	21.8	24.2	25.8	20.9	22.7	20.0	13.3	16.5
26	26.0	17.0	21.1	28.0	21.7	24.1	27.5	20.0	23.4	20.2	12.7	16.2
27	26.8	17.4	21.9	26.1	22.0	23.8	28.4	20.8	24.0	20.2	11.5	15.7
28	28.5	18.3	23.0	25.2	21.9	23.4	28.6	18.4	23.1	20.7	11.8	16.0
29	29.1	18.8	23.7	27.2	20.4	23.4	28.6	18.8	23.3	22.1	15.1	18.0
30	28.2	19.3	23.7	26.7	20.4	23.2	28.3	18.6	23.1	22.4	14.9	18.2
31	---	---	---	26.5	21.2	23.5	25.7	19.0	21.9	---	---	---
MONTH	29.1	11.3	17.2	31.7	19.0	24.6	29.6	17.9	23.1	27.6	11.5	19.6

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 mi^2.

PERIOD OF RECORD.--January to December 1909, September 1910 to November (revised) 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 of Colorado, Pacific Light and Power Company, and Tri State Power Company, combined capacity, 5,040 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	143	102	e120	76	58	136	647	839	762	273	141
2	163	133	102	e120	e80	68	139	661	952	758	241	160
3	196	130	99	121	e83	83	133	706	1000	723	218	143
4	170	132	78	116	e84	84	136	709	881	716	206	132
5	158	129	93	109	e86	83	139	767	748	687	203	104
6	161	128	114	102	e85	89	144	706	625	694	193	98
7	165	126	106	e92	85	83	138	597	590	658	173	91
8	238	124	101	e84	73	63	134	546	571	627	162	93
9	194	126	104	e97	75	69	134	489	564	558	155	94
10	187	123	94	e100	e82	80	131	498	552	605	160	90
11	206	124	90	e105	82	81	173	530	513	579	174	93
12	205	128	79	e105	83	86	289	488	489	532	171	135
13	192	125	e90	e105	82	88	229	477	587	478	183	165
14	197	120	e90	e95	81	90	198	517	583	421	183	125
15	203	90	e86	e100	72	82	197	443	562	389	183	136
16	200	97	e84	e100	72	92	200	419	628	367	180	116
17	198	116	e90	e97	84	100	194	425	616	361	178	118
18	230	119	e95	89	85	99	190	502	542	342	183	105
19	227	117	e100	e90	84	88	189	552	614	338	178	99
20	217	114	e100	e90	79	90	202	602	751	320	176	91
21	196	108	e110	e90	83	91	272	685	742	324	178	88
22	188	104	e115	e90	70	91	377	691	787	308	175	87
23	181	105	e120	e90	71	109	596	634	770	315	158	84
24	180	109	e110	e90	82	138	716	638	719	282	137	81
25	169	111	e110	e95	86	174	647	597	687	284	138	78
26	159	104	e110	97	82	210	456	633	717	317	175	77
27	165	117	e110	120	81	204	448	694	788	297	148	75
28	168	105	e110	111	72	191	524	772	805	362	136	73
29	163	102	e110	e110	---	168	564	870	828	347	110	79
30	154	101	e110	107	---	138	635	886	798	263	95	85
31	149	---	e110	95	---	144	---	808	---	239	96	---
TOTAL	5747	3510	3122	3132	2240	3314	8660	19189	20848	14253	5319	3136
MEAN	185	117	101	101	80.0	107	289	619	695	460	172	105
MAX	238	143	120	121	86	210	716	886	1000	762	273	165
MIN	149	90	78	84	70	58	131	419	489	239	95	73
AC-FT	11400	6960	6190	6210	4440	6570	17180	38060	41350	28270	10550	6220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1998, BY WATER YEAR (WY)

MEAN	112	84.0	68.8	63.4	63.0	76.6	234	570	799	450	214	140
MAX	399	138	104	101	94.2	148	593	1515	1528	1197	484	342
(WY)	1912	1985	1987	1998	1987	1997	1942	1958	1983	1983	1983	1970
MIN	50.9	51.4	40.8	38.3	37.1	46.4	79.6	136	186	104	83.4	63.8
(WY)	1957	1990	1977	1977	1990	1980	1951	1977	1934	1977	1972	1956

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1911 - 1998	
ANNUAL TOTAL	134596		92470			
ANNUAL MEAN	369		253		239	
HIGHEST ANNUAL MEAN					414	1983
LOWEST ANNUAL MEAN					88.8	1977
HIGHEST DAILY MEAN	1550	Jun 2	1000	Jun 3	2740	Jun 21 1983
LOWEST DAILY MEAN	59	Jan 16	58	Mar 1	26	Jan 5 1960
ANNUAL SEVEN-DAY MINIMUM	73	Mar 2	75	Feb 26	31	Dec 25 1976
INSTANTANEOUS PEAK FLOW			1180	Jun 3	a3830	Jun 24 1983
INSTANTANEOUS PEAK STAGE			b4.39	Jun 3	c6.20	Jun 24 1983
ANNUAL RUNOFF (AC-FT)	267000		183400		173200	
10 PERCENT EXCEEDS	953		651		650	
50 PERCENT EXCEEDS	217		138		106	
90 PERCENT EXCEEDS	80		83		56	

e-Estimated.
a-Maximum discharge for period of record, 10000 ft^3/s, Sep 5, 1909, gage height not determined; result of failure of Trout and Middle Reservoir Dams.
b-Maximum gage height, 4.62 ft, Dec 18, 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 NE¼NE¼ 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 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	165	e120	109	91	e75	379	1730	895	660	201	48
2	192	155	122	117	87	81	434	1630	1010	664	192	82
3	238	148	e110	e120	e98	109	379	1740	1060	612	156	82
4	220	152	100	e115	e98	105	478	1680	936	604	147	62
5	193	149	86	e110	e98	103	505	1550	730	596	131	40
6	185	147	116	e100	e98	110	533	1470	588	584	116	30
7	193	144	e120	100	e95	114	428	1230	525	561	89	25
8	266	142	e120	77	92	84	394	1080	494	540	66	22
9	236	148	117	100	90	87	423	934	486	473	51	16
10	215	148	116	109	e93	98	432	948	477	490	46	15
11	219	146	107	e110	93	100	751	1030	453	509	72	16
12	232	156	91	116	e95	106	1210	982	423	443	73	23
13	216	152	83	118	94	109	780	942	486	408	70	69
14	216	147	98	e115	e94	119	666	957	490	350	86	56
15	223	121	89	106	93	112	572	831	475	315	89	46
16	221	96	89	e110	87	126	514	686	522	285	82	44
17	215	113	84	e110	100	156	460	671	531	278	79	81
18	238	128	e98	103	98	173	492	786	469	262	85	41
19	243	131	e100	96	98	145	524	866	480	253	85	33
20	238	128	e100	e98	94	145	609	904	613	236	77	28
21	215	100	101	e95	101	164	807	1010	616	235	87	24
22	204	77	e110	91	89	196	1110	1060	692	221	101	22
23	198	66	e115	e95	e86	309	1670	951	722	230	80	25
24	206	74	117	e98	93	560	2290	914	691	237	72	23
25	195	108	e110	100	61	971	2150	797	604	224	50	22
26	177	e120	112	95	49	1160	1410	799	619	268	87	23
27	182	e130	109	107	49	960	1240	813	693	236	84	22
28	190	134	109	111	66	783	1580	902	730	283	65	22
29	186	121	109	115	---	583	1540	1020	735	299	48	24
30	173	118	109	117	---	416	1740	1060	731	229	38	32
31	167	---	109	112	---	407	---	961	---	185	33	---
TOTAL	6450	3864	3276	3275	2480	8766	26500	32934	18976	11770	2738	1098
MEAN	208	129	106	106	88.6	283	883	1062	633	380	88.3	36.6
MAX	266	165	122	120	101	1160	2290	1740	1060	664	201	82
MIN	158	66	83	77	49	75	379	671	423	185	33	15
AC-FT	12790	7660	6500	6500	4920	17390	52560	65320	37640	23350	5430	2180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1998, BY WATER YEAR (WY)

MEAN	174	113	96.6	100	97.8	285	774	1073	1002	520	194	104
MAX	208	129	106	106	108	486	1127	1317	1631	1059	352	214
(WY)	1998	1998	1998	1998	1997	1997	1997	1995	1995	1995	1997	1997
MIN	127	90.1	80.1	96.4	88.6	84.7	386	622	389	101	11.0	36.6
(WY)	1996	1996	1996	1996	1998	1996	1996	1996	1996	1996	1996	1998

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1995 - 1998	
ANNUAL TOTAL	183256		122127			
ANNUAL MEAN	502		335		337	
HIGHEST ANNUAL MEAN					499	1997
LOWEST ANNUAL MEAN					178	1996
HIGHEST DAILY MEAN	2040	Apr 21	2290	Apr 24	a2370	Jun 17 1995
LOWEST DAILY MEAN	66	Nov 23	15	Sep 10	2.7	Sep 11 1996
ANNUAL SEVEN-DAY MINIMUM	90	Dec 12	21	Sep 6	3.6	Aug 14 1996
INSTANTANEOUS PEAK FLOW			3290	Apr 24	3290	Apr 24 1998
INSTANTANEOUS PEAK STAGE			6.30	Apr 24	b6.30	Apr 24 1998
ANNUAL RUNOFF (AC-FT)	363500		242200		244200	
10 PERCENT EXCEEDS	1400		922		1220	
50 PERCENT EXCEEDS	222		145		162	
90 PERCENT EXCEEDS	100		66		66	

e-Estimated.
a-Also occurred Jun 18, 1995.
b-Maximum gage height, 6.32 ft., Jun 17, 1995.

09177000 SAN MIGUEL RIVER AT URAVAN, CO

LOCATION.--Lat 38°21'26", long 108°42'44", in SW¼NE¼ 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.

DRAINAGE AREA.--1,499 mi^2.

PERIOD OF RECORD.--August 1954 to September 1962, October 1973 to September 1994, August 1996 to current year.

REVISED RECORDS.--WRD Colo. 1974: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,000 ft above sea level, from topographic map. Prior to Sept. 3, 1959, at site 0.5 mi downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation of about 28,000 acres upstream from station, 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 OUTSIDE PERIOD OF RECORD.--Flood of Sept. 6, 1970, reached a stage of 12.6 ft, from floodmarks, discharge, 8,910 ft^3/s, by slope-area measurement at site 5.5 mi downstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	203	188	170	137	131	123	508	2270	1290	754	307	77
2	237	182	168	e140	123	121	606	2210	1340	743	315	123
3	344	173	166	e145	e130	143	524	2410	1390	700	269	148
4	287	172	146	e145	e140	153	624	2610	1270	672	218	118
5	239	171	124	e140	e140	148	668	2450	1080	689	173	103
6	215	173	138	e135	e140	156	716	2240	906	656	161	86
7	269	175	162	131	e140	176	624	1910	812	704	138	77
8	375	174	e160	118	142	140	599	1640	763	633	113	68
9	298	194	e160	131	135	133	603	1450	747	556	101	63
10	253	199	158	e130	136	150	607	1430	738	558	96	63
11	235	197	149	e130	e125	157	797	1570	711	611	111	74
12	252	225	120	e130	e125	165	1380	1520	677	532	116	271
13	251	201	130	e130	135	170	908	1410	700	490	104	120
14	240	192	146	e130	e130	176	792	1350	707	435	116	132
15	246	175	152	130	e130	175	727	1200	699	393	129	106
16	241	136	e150	e130	133	182	691	1070	721	359	125	106
17	236	147	149	e130	137	221	637	1030	740	348	120	103
18	248	164	e150	e130	139	272	672	1140	696	329	126	118
19	263	167	e150	132	137	240	731	1220	664	316	131	89
20	257	163	151	e130	135	236	804	1290	774	298	124	83
21	242	153	153	122	e130	248	986	1430	791	291	147	75
22	226	138	e150	113	136	278	1270	1490	850	287	195	69
23	221	121	e150	126	130	373	1990	1360	885	302	149	73
24	230	120	e145	129	e120	663	2660	1310	837	346	132	72
25	234	140	135	e130	120	1000	2670	1210	752	339	121	66
26	218	171	120	129	104	1380	1690	1240	748	365	129	62
27	209	179	82	e130	97	1060	1410	1260	800	364	158	58
28	214	187	e140	e130	90	894	1770	1300	841	381	129	56
29	211	170	e140	132	---	701	1850	1390	839	404	104	55
30	202	159	142	e130	---	554	2240	1470	826	355	88	80
31	192	---	141	e130	---	535	---	1380	---	294	78	---
TOTAL	7588	5106	4497	4055	3610	11123	32754	48260	25594	14504	4523	2794
MEAN	245	170	145	131	129	359	1092	1557	853	468	146	93.1
MAX	375	225	170	145	142	1380	2670	2610	1390	754	315	271
MIN	192	120	82	113	90	121	508	1030	664	287	78	55
AC-FT	15050	10130	8920	8040	7160	22060	64970	95720	50770	28770	8970	5540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1998, BY WATER YEAR (WY)

MEAN	141	119	95.6	89.5	108	201	875	1217	1033	445	189	127
MAX	333	385	188	139	226	612	2154	3420	2361	1306	603	416
(WY)	1987	1987	1987	1985	1958	1997	1985	1984	1957	1957	1983	1982
MIN	30.6	60.9	49.6	49.9	54.1	66.8	110	86.6	177	103	37.2	16.8
(WY)	1957	1956	1977	1977	1990	1977	1977	1977	1977	1959	1994	1956

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1954 - 1998	
ANNUAL TOTAL	228271		164408			
ANNUAL MEAN	625		450		388	
HIGHEST ANNUAL MEAN					758	1984
LOWEST ANNUAL MEAN					89.3	1977
HIGHEST DAILY MEAN	2930	Apr 19	2670	Apr 25	5440	May 16 1984
LOWEST DAILY MEAN	82	Dec 27	55	Sep 29	9.4	Aug 10 1977
ANNUAL SEVEN-DAY MINIMUM	111	Feb 4	63	Sep 23	14	Aug 8 1977
INSTANTANEOUS PEAK FLOW			4120	Apr 24	a8050	May 10 1983
INSTANTANEOUS PEAK STAGE			7.24	Apr 24	10.14	May 10 1983
ANNUAL RUNOFF (AC-FT)	452800		326100		280800	
10 PERCENT EXCEEDS	1780		1280		1100	
50 PERCENT EXCEEDS	263		182		137	
90 PERCENT EXCEEDS	120		115		59	

e-Estimated.
a-From rating curve extended above 4100 ft^3/s.

09237450 YAMPA RIVER ABOVE STAGECOACH RESERVOIR, CO

LOCATION.--Lat 40°16'09", long 106°52'49", in SW¼SW¼ 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.--257 mi^2.

PERIOD OF RECORD.--October 1988 to current year. Water-quality data available, July 1984 to September 1992.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	146	95	e80	e49	e48	e42	142	278	95	e98	133	59
2	151	91	e78	e50	e46	e42	153	268	98	e98	110	61
3	164	93	e76	e50	e44	e42	153	281	102	e98	108	56
4	142	93	e72	e51	e42	e42	180	295	115	e98	112	54
5	127	91	e70	e50	e40	e42	200	303	160	98	106	50
6	131	92	e66	e50	e38	e43	177	288	138	103	101	47
7	117	91	e62	e50	e40	e42	137	301	124	100	95	46
8	118	86	e58	e51	e40	e42	143	276	128	97	91	44
9	114	87	e54	e50	e40	e42	135	264	133	104	101	49
10	110	88	e52	e50	e40	e42	148	246	125	119	96	39
11	112	89	e50	e51	e40	e42	204	259	124	127	96	40
12	119	89	e48	e50	e42	e42	231	251	123	111	89	54
13	116	87	e48	e50	e42	e42	184	261	119	103	85	51
14	117	e84	e48	e50	e42	e42	149	275	126	102	82	49
15	116	e82	e48	e51	e42	e42	133	270	138	102	81	43
16	114	e81	e48	e50	e42	e42	134	271	126	100	76	43
17	113	e81	e48	e50	e42	e42	132	249	170	102	77	45
18	113	e81	e50	e50	e42	e42	139	233	188	104	80	40
19	112	e81	e50	e50	e42	e42	133	215	147	106	78	39
20	111	e81	e50	e51	e42	e45	142	224	127	107	76	40
21	110	e80	e48	e50	e42	e55	150	232	137	111	77	41
22	104	e78	e48	e50	e42	e100	173	237	150	120	82	44
23	104	e80	e48	e50	e42	e175	208	216	131	133	73	44
24	105	e80	e50	e50	e42	226	275	185	118	148	71	45
25	103	e81	e50	e50	e42	424	314	155	107	248	67	41
26	102	e82	e48	e51	e42	488	259	134	105	153	68	39
27	103	e82	e48	e50	e42	336	223	119	109	139	73	40
28	107	e82	e48	e50	e42	297	238	116	98	128	69	43
29	103	e82	e48	e50	---	235	241	102	104	162	66	46
30	98	e82	e48	e50	---	166	256	105	e100	148	63	50
31	98	---	e48	e50	---	150	---	103	---	176	61	---
TOTAL	3600	2552	1688	1555	1172	3496	5486	7012	3765	3743	2643	1382
MEAN	116	85.1	54.5	50.2	41.9	113	183	226	126	121	85.3	46.1
MAX	164	95	80	51	48	488	314	303	188	248	133	61
MIN	98	78	48	49	38	42	132	102	95	97	61	39
AC-FT	7140	5060	3350	3080	2320	6930	10880	13910	7470	7420	5240	2740

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1998, BY WATER YEAR (WY)

MEAN	53.0	53.5	43.9	40.8	41.7	63.6	120	132	131	109	78.3	54.6
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	38.5	39.4	50.4	43.1	28.5
(WY)	1995	1995	1990	1990	1991	1992	1995	1990	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1989 - 1998	
ANNUAL TOTAL	50738		38094			
ANNUAL MEAN	139		104		76.8	
HIGHEST ANNUAL MEAN					135	1997
LOWEST ANNUAL MEAN					44.6	1994
HIGHEST DAILY MEAN	582	Jun 9	488	Mar 26	582	Jun 9 1997
LOWEST DAILY MEAN	e,a48	Dec 12	e38	Feb 6	b14	Jan 24 1990
ANNUAL SEVEN-DAY MINIMUM	48	Dec 11	40	Feb 5	15	Jan 22 1990
INSTANTANEOUS PEAK FLOW			765	Mar 26	765	Mar 26 1998
INSTANTANEOUS PEAK STAGE			5.96	Mar 26	c5.96	Mar 26 1998
ANNUAL RUNOFF (AC-FT)	100600		75560		55640	
10 PERCENT EXCEEDS	274		219		145	
50 PERCENT EXCEEDS	112		89		57	
90 PERCENT EXCEEDS	58		42		31	

e-Estimated.
a-Also occurred Dec 13-17, 21-23 and 26-31.
b-Also occurred Jan 25-26, 1990.
c-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 SE¼NE¼ sec.29, T.4 N., R.84 W., Routt County, Hydrologic Unit 1405001, 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.--278 mi^2.

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-89-2: 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 good. 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 Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
.DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	103	95	91	84	63	90	278	107	97	174	97
2	114	102	95	91	87	82	90	291	105	95	156	97
3	123	100	95	89	87	80	90	294	105	94	140	97
4	123	63	95	89	87	84	90	306	100	94	133	97
5	118	42	94	90	87	83	90	321	115	94	128	84
6	116	77	94	91	88	84	89	317	125	96	123	85
7	114	81	94	90	85	76	88	327	127	97	118	72
8	111	61	94	91	85	79	89	316	125	98	115	42
9	115	70	94	91	88	89	90	329	126	100	110	77
10	114	67	94	89	89	89	89	297	126	105	113	90
11	113	75	93	89	88	89	89	281	118	110	110	97
12	119	80	93	92	89	87	89	276	117	110	108	87
13	117	112	92	91	91	88	89	268	128	106	106	87
14	116	125	91	91	71	78	89	270	125	105	105	98
15	115	96	92	91	60	78	89	272	126	104	105	97
16	114	106	93	92	81	88	90	255	127	103	91	96
17	114	99	93	81	81	93	90	240	136	102	100	96
18	110	99	92	89	81	93	90	227	154	102	87	88
19	109	98	92	91	81	93	96	216	156	102	85	76
20	106	98	91	91	81	93	113	215	145	103	85	75
21	104	97	91	91	64	94	131	220	140	104	95	84
22	98	96	92	91	63	94	150	223	142	105	105	82
23	100	95	92	91	49	93	180	226	139	112	121	83
24	102	97	92	90	26	93	230	204	131	118	98	82
25	98	96	92	90	29	92	293	182	122	154	96	84
26	96	96	92	91	29	89	306	164	115	167	95	76
27	88	96	91	91	43	90	283	145	109	161	82	76
28	90	96	91	90	63	90	268	130	103	152	96	83
29	119	95	92	88	---	90	265	121	100	151	84	83
30	115	95	92	87	---	89	271	110	99	157	85	80
31	116	---	90	84	---	90	---	111	---	164	97	---
TOTAL	3422	2713	2873	2784	2037	2693	4196	7432	3693	3562	3346	2548
MEAN	110	90.4	92.7	89.8	72.8	86.9	140	240	123	115	108	84.9
MAX	123	125	95	92	91	94	306	329	156	167	174	98
MIN	88	42	90	81	26	63	88	110	99	94	82	42
AC-FT	6790	5380	5700	5520	4040	5340	8320	14740	7330	7070	6640	5050

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1998, BY WATER YEAR (WY)

MEAN	63.6	62.5	63.7	63.2	59.8	58.8	74.2	122	127	93.5	81.9	73.8
MAX	110	94.7	93.3	89.8	84.8	88.0	166	303	377	172	156	135
(WY)	1998	1996	1996	1998	1997	1996	1996	1996	1997	1995	1997	1997
MIN	25.8	37.3	38.7	37.2	30.0	18.0	32.3	12.4	12.8	22.3	34.4	31.8
(WY)	1991	1991	1989	1989	1989	1989	1989	1989	1989	1989	1989	1990

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1989 - 1998	
ANNUAL TOTAL	51306		41299			
ANNUAL MEAN	141		113		a78.7	
HIGHEST ANNUAL MEAN					134	1997
LOWEST ANNUAL MEAN					32.1	1989
HIGHEST DAILY MEAN	611	Jun 9	329	May 9	b611	Jun 9 1997
LOWEST DAILY MEAN	42	Nov 5	26	Feb 24	c,d9.4	Jun 1 1989
ANNUAL SEVEN-DAY MINIMUM	66	Nov 4	43	Feb 22	10	May 29 1989
INSTANTANEOUS PEAK FLOW			364	May 7	f641	Jun 11 1997
INSTANTANEOUS PEAK STAGE			3.15	May 7	g3.82	Jun 11 1997
ANNUAL RUNOFF (AC-FT)	101800		81920		57040	
10 PERCENT EXCEEDS	265		164		129	
50 PERCENT EXCEEDS	98		95		63	
90 PERCENT EXCEEDS	84		81		37	

a-Average discharge for 25 years (water years 1940-44, 1957-72, 1985-88), 89.4 ft^3/s; 64770 acre-ft/yr, prior to completion of Stagecoach Reservoir.
b-Maximum daily discharge for period of record, 1020 ft^3/s, Apr 16, 1962.
c-Also occurred Jun 2-3, 1989.
d-Minimum daily discharge for period of record, 8.9 ft^3/s, May 22, 1963.
f-Maximum discharge and stage for period of record, 1400 ft^3/s, Apr 16, 1962, gage height, 7.56 ft, from rating curve extended above 570 ft^3/s, site and datum then in use.
g-Maximum gage height, 8.08 ft, Mar 8, 1987, backwater from ice.

09238900 FISH CREEK AT UPPER STATION, NEAR STEAMBOAT SPRINGS, CO

LOCATION.--Lat 40°28'30", long 106°47'11", in SE¼SE¼ 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.

DRAINAGE AREA.--24.8 mi^2.

PERIOD OF RECORD.--October 1966 to September 1972, May 1982 to current year.

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Elevation of gage is 7,150 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions upstream from station by Mount Werner Recreation District and City of Steamboat Springs for domestic use began in 1972 (see table below for figures of diversion). Natural flow of stream affected by storage in Fish Creek and Long Lake Reservoir, combined capacity 2,237 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	40	26	19	17	e15	17	89	418	365	32	57
2	57	39	26	20	17	15	16	102	430	325	25	56
3	110	37	25	20	17	15	15	131	461	269	22	56
4	66	37	29	20	17	15	16	146	435	228	23	52
5	49	36	25	20	17	20	15	150	275	210	32	51
6	44	36	24	22	17	15	15	131	215	188	35	52
7	40	35	24	e21	16	15	15	116	219	147	30	52
8	48	35	24	21	16	e15	15	104	233	121	9.8	51
9	54	34	24	22	17	14	14	96	195	115	9.0	48
10	56	34	e24	20	16	14	15	123	180	108	9.6	47
11	55	34	e24	19	e16	12	20	137	188	98	6.1	47
12	65	33	e24	20	16	13	27	110	224	84	7.4	52
13	56	32	e24	19	e16	13	23	123	243	67	6.7	50
14	52	28	e23	20	16	13	21	123	330	54	5.6	46
15	50	26	e23	e20	15	14	20	113	299	45	8.0	44
16	53	31	e23	19	15	15	19	112	346	40	6.2	43
17	60	33	23	18	15	16	18	156	370	37	6.1	41
18	61	31	23	20	15	15	18	211	267	34	10	41
19	59	30	23	20	15	14	17	232	275	30	14	39
20	55	30	23	19	e15	14	16	309	337	26	6.0	38
21	54	29	23	19	e15	14	18	374	429	24	4.0	35
22	51	29	22	e18	15	15	24	354	519	26	6.0	28
23	48	30	22	18	15	16	36	267	517	24	4.1	13
24	47	28	24	18	15	23	45	236	465	25	4.2	3.6
25	32	27	21	18	15	31	42	275	454	48	3.6	1.7
26	35	27	21	18	e15	33	44	327	507	35	6.6	3.3
27	37	27	22	18	e15	26	48	374	486	27	24	1.9
28	44	27	22	18	e15	22	54	389	433	22	36	2.1
29	43	26	21	17	---	20	65	407	407	26	41	2.4
30	42	26	21	17	---	18	80	412	395	45	41	4.5
31	42	---	19	17	---	17	---	409	---	32	45	---
TOTAL	1609	947	722	595	441	527	808	6638	10552	2925	519.0	1058.5
MEAN	51.9	31.6	23.3	19.2	15.8	17.0	26.9	214	352	94.4	16.7	35.3
MAX	110	40	29	22	17	33	80	412	519	365	45	57
MIN	32	26	19	17	15	12	14	89	180	22	3.6	1.7
AC-FT	3190	1880	1430	1180	875	1050	1600	13170	20930	5800	1030	2100
a	210	164	193	222	192	223	155	217	277	415	364	308

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1998, BY WATER YEAR (WY)

MEAN	12.2	10.9	8.28	6.47	6.02	9.44	34.9	210	384	90.4	9.77	11.1
MAX	51.9	31.6	23.3	19.2	15.8	17.0	59.0	358	580	331	21.6	74.0
(WY)	1998	1998	1998	1998	1998	1998	1987	1969	1997	1995	1997	1997
MIN	2.52	3.07	2.55	2.46	2.84	5.02	8.21	85.5	124	9.82	.86	.73
(WY)	1993	1989	1989	1989	1997	1984	1983	1983	1987	1987	1994	1994

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1967 - 1998	
ANNUAL TOTAL	35523.0		27341.5			
ANNUAL MEAN	97.3		74.9			
HIGHEST ANNUAL MEAN					98.6	1984
LOWEST ANNUAL MEAN					41.6	1989
HIGHEST DAILY MEAN	744	Jun 3	519	Jun 22	814	Jun 21 1968
LOWEST DAILY MEAN	2.2	Mar 3	1.7	Sep 25	.01	Aug 7 1972
ANNUAL SEVEN-DAY MINIMUM	2.4	Mar 1	2.8	Sep 24	.11	Aug 7 1972
INSTANTANEOUS PEAK FLOW			714	Jun 26	1110	Jun 20 1968
INSTANTANEOUS PEAK STAGE			2.65	Jun 26	3.14	Jun 20 1968
ANNUAL RUNOFF (AC-FT)	70460		54230			
10 PERCENT EXCEEDS	383		253		245	
50 PERCENT EXCEEDS	26		27		10	
90 PERCENT EXCEEDS	3.2		14		3.7	

e-Estimated.
a-Diversions, in acre-feet, by Mount Werner Water and Sanitation District, and City of Steamboat Springs.

09239500 YAMPA RIVER AT STEAMBOAT SPRINGS, CO

LOCATION.--Lat 40°29'01", long 106°49'54", in NW¼NE¼ 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.

DRAINAGE AREA.--604 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1904 to October 1906, October 1909 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 764: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,695.47 ft above sea level. Prior to May 8, 1905, nonrecording gage at bridge 0.2 mi upstream at datum 4.16 ft higher. May 8, 1905 to Oct. 31, 1906, nonrecording gage on bridge 30 ft upstream at datum 0.44 ft higher. Mar. 8, 1910 to Sept. 11, 1934, water-stage recorder on right bank, 60 ft downstream, at datum 0.44 ft higher. Sept. 11, 1934 to Aug. 17, 1988, water-stage recorder on right bank, 60 ft downstream, at present datum.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by two diversions for irrigation to Egeria Creek in Colorado River basin, one diversion for irrigation from Trout Creek drainage to Oak Creek drainage, irrigation of about 19,700 acres upstream from station, and by storage in Stillwater, Yampa, YamColo, Stagecoach, and Catamount Reservoirs, (total capacity 56,895 acre-ft) and pumping of water to ski area for snow making during winter.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	322	345	235	190	190	166	459	1380	2380	980	383	186
2	306	334	223	187	186	164	464	1410	2420	894	356	186
3	465	336	215	184	180	160	463	1550	2430	796	307	184
4	440	349	207	184	173	161	529	1650	2310	726	280	181
5	363	345	206	189	181	158	616	1720	1930	682	281	179
6	324	341	206	187	175	162	664	1630	1680	622	262	171
7	309	339	208	182	170	162	582	1660	1540	557	237	167
8	336	337	210	191	174	154	581	1560	1560	495	203	156
9	353	335	205	189	177	159	587	1530	1480	507	192	142
10	384	299	207	192	178	151	653	1580	1420	473	190	149
11	391	257	201	188	176	158	845	1710	1410	455	184	162
12	442	238	197	187	182	160	1070	1560	1390	415	180	201
13	402	234	206	190	179	163	893	1620	1440	367	174	200
14	389	226	214	185	182	167	782	1760	1600	330	167	188
15	390	232	219	188	181	173	692	1660	1500	298	163	182
16	408	235	200	190	179	182	656	1540	1490	275	156	176
17	425	252	203	183	179	197	568	1660	1630	255	154	171
18	432	247	201	184	179	196	572	1880	1450	243	175	170
19	422	253	200	187	174	193	567	2030	1450	230	201	162
20	411	251	199	189	169	198	584	2270	1450	219	167	152
21	403	249	206	192	171	205	617	2550	1520	213	159	146
22	392	248	201	198	170	210	676	2600	1620	215	163	144
23	374	240	194	198	170	233	803	2270	1550	215	151	134
24	385	246	195	198	172	288	1000	2050	1430	232	143	127
25	342	247	205	191	171	413	1160	2000	1340	321	142	125
26	346	242	203	197	170	535	1190	2070	1360	360	143	121
27	344	242	200	196	166	569	1140	2180	1310	319	158	114
28	358	239	212	197	166	620	1150	2340	1180	287	173	111
29	353	235	200	195	---	603	1200	2430	1090	296	179	114
30	351	235	191	195	---	518	1270	2430	1040	413	170	126
31	355	---	189	186	---	487	---	2400	---	361	170	---
TOTAL	11717	8208	6358	5889	4920	8065	23033	58680	47400	13051	6163	4727
MEAN	378	274	205	190	176	260	768	1893	1580	421	199	158
MAX	465	349	235	198	190	620	1270	2600	2430	980	383	201
MIN	306	226	189	182	166	151	459	1380	1040	213	142	111
AC-FT	23240	16280	12610	11680	9760	16000	45690	116400	94020	25890	12220	9380

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1998, BY WATER YEAR (WY)

MEAN	136	127	105	101	102	167	660	1734	1823	371	153	110
MAX	378	274	205	190	176	433	1675	3350	3771	1684	387	432
(WY)	1998	1998	1998	1998	1998	1910	1962	1984	1917	1957	1984	1997
MIN	49.6	69.3	56.6	45.0	50.0	73.5	236	702	141	16.2	40.5	19.5
(WY)	1935	1978	1916	1916	1916	1964	1995	1977	1934	1934	1931	1944

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1910 - 1998	
ANNUAL TOTAL	274530		198211			
ANNUAL MEAN	752		543		467	
HIGHEST ANNUAL MEAN					821	1984
LOWEST ANNUAL MEAN					169	1977
HIGHEST DAILY MEAN	5090	Jun 3	2600	May 22	5870	Jun 14 1921
LOWEST DAILY MEAN	111	Jan 4	111	Sep 28	a4.0	Sep 8 1934
ANNUAL SEVEN-DAY MINIMUM	118	Jan 1	120	Sep 24	4.9	Sep 9 1944
INSTANTANEOUS PEAK FLOW			2780	May 21	b6820	Jun 14 1921
INSTANTANEOUS PEAK STAGE			5.84	May 21	c7.08	Jun 14 1921
ANNUAL RUNOFF (AC-FT)	544500		393200		338200	
10 PERCENT EXCEEDS	2510		1550		1520	
50 PERCENT EXCEEDS	306		240		138	
90 PERCENT EXCEEDS	140		163		75	

a-Also occurred Sep 10-13, 1944.
b-Present datum, from rating curve extended above 4800 ft^3/s.
c-Maximum gage height, 7.65 ft, Jun 3, 1997.

09239500 YAMPA RIVER AT STEAMBOAT SPRINGS, CO--Continued
WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1990 to September 1993, October 1996 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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 WHOLE TOTAL UREASE (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)
DEC												
15...	1030	219	240	7.9	0.0	10.8	K16	K11	110	29	9.0	6.3
JAN												
09...	0830	177	255	8.1	0.0	--	--	--	--	--	--	--
FEB												
23...	1200	165	273	8.4	0.0	11.0	K25	K13	120	31	9.6	8.0
MAR												
11...	1520	159	262	8.4	4.5	--	--	--	--	--	--	--
17...	1015	186	250	8.3	2.0	10.7	--	--	--	--	--	--
25...	0900	332	221	7.8	2.0	10.4	--	--	--	--	--	--
APR												
21...	1530	589	212	7.9	9.5	--	--	--	--	--	--	--
JUN												
03...	0915	2290	59	7.9	7.0	9.5	95	29	26	7.1	1.9	2.0
JUL												
21...	1500	212	180	8.5	23.0	--	--	--	--	--	--	--
AUG												
17...	1630	154	284	8.6	20.5	7.6	39	34	130	34	11	8.1

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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
DEC												
15...	0.3	1.3	--	--	95	22	2.0	0.1	11	138	0.19	81.3
FEB												
23...	0.3	1.5	--	--	108	24	3.2	0.2	9.5	152	0.21	67.5
JUN												
03...	0.2	0.7	28	23	--	5.2	0.4	<0.1	7.5	39	0.05	239
AUG												
17...	0.3	1.8	--	--	114	29	2.6	0.1	8.6	164	0.22	68.2

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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
DEC								
15...	0.01	<0.05	<0.02	0.2	0.2	<0.01	<0.01	<0.01
FEB								
23...	<0.01	<0.05	0.02	0.2	0.1	0.03	<0.01	0.01
JUN								
03...	0.02	<0.05	<0.02	0.2	0.1	0.03	<0.01	0.02
AUG								
17...	0.01	<0.05	0.03	0.5	0.3	0.02	<0.01	0.02

K-Based on non-ideal colony count.

09239500 YAMPA RIVER AT STEAMBOAT SPRINGS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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, TOTAL (UG/L AS SE) (01147)	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)
DEC											
15...	<1	4	260	<1	70	63	<0.1	--	<1	<0.2	<20
JAN											
09...	--	--	--	--	--	--	--	<1	<1	--	--
FEB											
23...	<1	3	230	<1	100	93	<0.1	<1	<1	<0.2	<20
MAR											
11...	--	--	--	--	--	--	--	<1	<1	--	--
17...	--	--	--	--	--	--	--	<1	<1	--	--
25...	--	--	--	--	--	--	--	<1	<1	--	--
APR											
21...	--	--	--	--	--	--	--	<1	<1	--	--
JUN											
03...	<1	1	420	<1	20	10	<0.1	--	<1	<0.2	<20
JUL											
21...	--	--	--	--	--	--	--	<1	<1	--	--
AUG											
17...	<1	1	250	<1	50	15	<0.1	--	<1	<0.2	<20

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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				
07...	1250	298	209	12.0
NOV				
17...	1150	245	210	2.5
JAN				
08...	1230	260	268	0.5
APR				
08...	1150	568	252	4.0
MAY				
11...	0905	1740	168	7.5
22...	0850	2640	97	7.0
29...	0555	2420	79	6.0
JUL				
14...	0945	341	157	16.0
AUG				
17...	1320	147	285	19.5
SEP				
22...	1235	143	247	14.5

09240900 ELK RIVER ABOVE CLARK, CO

LOCATION (REVISED).--Lat 40°44'36", long 106°51'17", in SE¼NW¼ 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 mi^2.

PERIOD OF RECORD.--October 1987 to September 1993. April to September 1998 (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.--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.

AVERAGE DISCHARGE.--5 years (water years 1988-93), 200 ft^3/s; 144,700 acre-ft/yr.

EXTREMES FOR PERIOD OF CONTINUOUS RECORD.--Maximum discharge, 2,430 ft^3/s, June 16, 1993, gage height, 6.13 ft; minimum daily, 17 ft^3/s, Nov. 9, 10, and 13, 1987.

EXTREMES FOR PERIOD OF SEASONAL RECORD.--Maximum discharge, 1810 ft^3/s, June 2, 1998, gage height 4.07 ft.; minimum daily, 56 ft^3/s on Sept. 24, 28, and 30, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 1,810 ft^3/s, June 2, gage height, 4.07 ft; minimum daily, 56 ft^3/s Sept. 24, 28, and 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	469	1400	e1160	e270	74
2	---	---	---	---	---	---	---	521	1480	e1120	e260	73
3	---	---	---	---	---	---	---	644	1500	e1070	e250	72
4	---	---	---	---	---	---	---	733	1360	e1010	e255	70
5	---	---	---	---	---	---	---	726	1050	e960	e225	69
6	---	---	---	---	---	---	---	635	825	e950	e205	69
7	---	---	---	---	---	---	---	572	793	e840	e195	72
8	---	---	---	---	---	---	---	538	e920	e740	e180	111
9	---	---	---	---	---	---	---	500	e780	e700	e180	105
10	---	---	---	---	---	---	---	552	e750	e710	e175	90
11	---	---	---	---	---	---	---	624	e730	e690	e170	78
12	---	---	---	---	---	---	---	534	e730	e670	e156	74
13	---	---	---	---	---	---	---	602	e840	e620	e151	74
14	---	---	---	---	---	---	---	650	e1210	e580	e143	69
15	---	---	---	---	---	---	---	563	e970	e540	e139	67
16	---	---	---	---	---	---	---	584	e1030	e500	e134	65
17	---	---	---	---	---	---	---	759	e1270	e460	e136	65
18	---	---	---	---	---	---	---	961	e1090	406	e130	66
19	---	---	---	---	---	---	---	1110	e1040	362	e123	65
20	---	---	---	---	---	---	---	1220	e1060	309	119	65
21	---	---	---	---	---	---	---	1340	e1090	259	117	62
22	---	---	---	---	---	---	---	1180	e1140	248	119	58
23	---	---	---	---	---	---	---	887	e1150	232	103	57
24	---	---	---	---	---	---	---	769	e1120	208	95	56
25	---	---	---	---	---	---	---	770	e1090	242	89	57
26	---	---	---	---	---	---	---	974	e1180	334	86	57
27	---	---	---	---	---	---	---	1180	e1210	175	84	57
28	---	---	---	---	---	---	---	1320	e1200	168	83	56
29	---	---	---	---	---	---	---	1390	e1200	e180	81	57
30	---	---	---	---	---	---	---	1420	e1190	e320	79	56
31	---	---	---	---	---	---	---	1380	---	e280	76	---
TOTAL	---	---	---	---	---	---	---	26107	32398	17043	4608	2066
MEAN	---	---	---	---	---	---	---	842	1080	550	149	68.9
MAX	---	---	---	---	---	---	---	1420	1500	1160	270	111
MIN	---	---	---	---	---	---	---	469	730	168	76	56
AC-FT	---	---	---	---	---	---	---	51780	64260	33800	9140	4100

e-Estimated.

09241000 ELK RIVER AT CLARK, CO

LOCATION.--Lat 40°43'03", long 106°54'55", in NW¼NW¼ 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 mi^2.

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 to September 1998 (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 good. Diversions upstream 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 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.--73 years (water years 1910-22, 1930-91), 333 ft^3/s; 241,300 acre-ft/yr.

EXTREMES FOR PERIOD OF CONTINUOUS RECORD.--Maximum discharge, 4,910 ft^3/s, May 23, 1984, gage height, 6.12 ft; minimum daily determined, 22 ft^3/s, Dec. 12, 1963, but a lesser discharge may have occurred during periods of no gage height record prior to 1939.

EXTREMES FOR PERIOD OF SEASONAL RECORD.--Maximum discharge, 2,050 ft^3/s, June 2, 1998, gage height, 4.34 ft; minimum daily, 66 ft^3/s, Sept. 10, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 2,050 ft^3/s, June 2, gage height, 4.34 ft; minimum daily, 66 ft^3/s, Sept. 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	885	1570	1340	319	82
2	---	---	---	---	---	---	---	951	1660	1300	260	81
3	---	---	---	---	---	---	---	1140	1660	1250	251	80
4	---	---	---	---	---	---	---	1300	1510	1190	251	75
5	---	---	---	---	---	---	---	1290	1300	1140	223	72
6	---	---	---	---	---	---	---	1180	1130	1120	203	71
7	---	---	---	---	---	---	---	1110	1070	994	190	70
8	---	---	---	---	---	---	---	1090	1180	878	175	69
9	---	---	---	---	---	---	---	987	1040	828	174	67
10	---	---	---	---	---	---	---	1050	988	821	168	66
11	---	---	---	---	---	---	---	1140	944	787	167	91
12	---	---	---	---	---	---	---	990	942	746	152	135
13	---	---	---	---	---	---	---	1060	1040	689	146	127
14	---	---	---	---	---	---	---	1110	1390	632	137	111
15	---	---	---	---	---	---	---	975	1150	576	132	99
16	---	---	---	---	---	---	---	957	1210	525	128	95
17	---	---	---	---	---	---	---	1070	1450	487	130	99
18	---	---	---	---	---	---	---	1290	1270	459	131	94
19	---	---	---	---	---	---	---	1420	1220	436	163	94
20	---	---	---	---	---	---	---	1530	1240	407	126	91
21	---	---	---	---	---	---	---	1660	1270	381	121	92
22	---	---	---	---	---	---	---	1510	1320	376	138	93
23	---	---	---	---	---	---	---	1210	1330	367	118	91
24	---	---	---	---	---	---	---	1070	1300	353	115	92
25	---	---	---	---	---	---	---	1040	1270	374	106	89
26	---	---	---	---	---	---	---	1230	1360	429	101	87
27	---	---	---	---	---	---	---	1420	1390	341	105	86
28	---	---	---	---	---	---	655	1540	1380	332	98	84
29	---	---	---	---	---	---	748	1630	1380	346	92	85
30	---	---	---	---	---	---	870	1650	1370	443	86	86
31	---	---	---	---	---	---	---	1590	---	330	84	---
TOTAL	---	---	---	---	---	---	---	38075	38334	20677	4790	2654
MEAN	---	---	---	---	---	---	---	1228	1278	667	155	88.5
MAX	---	---	---	---	---	---	---	1660	1660	1340	319	135
MIN	---	---	---	---	---	---	---	885	942	330	84	66
AC-FT	---	---	---	---	---	---	---	75520	76040	41010	9500	5260

09242500 ELK RIVER NEAR MILNER, CO

LOCATION.--Lat 40°30'53", long 106°57'12", in NW¼NW¼ 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.--415 mi^2.

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.

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.

REVISIONS.--The maximum discharge for the water year 1997 has been revised to 5,740 ft^3/s, June 3, 1997, gage height, 7.18 ft. The revised discharge includes the channel overflow (370 ft^3/s), which was previously not determined.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
.DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	877	249	161	e140	e128	e130	433	2170	2780	2240	480	115
2	803	206	158	e135	e126	e132	479	2130	2910	2110	374	113
3	649	200	149	e135	e128	e130	489	2430	2960	2000	336	105
4	511	236	128	e135	e129	e130	600	2740	2730	1850	348	100
5	396	198	134	e140	e130	e126	659	2650	2170	1730	325	84
6	328	197	162	e140	e131	e130	645	2430	1730	1720	292	78
7	304	199	175	e135	e131	e130	575	2310	1570	1510	266	71
8	364	201	184	e140	e132	e125	589	2230	1750	1270	242	66
9	345	201	185	e140	e134	e130	581	2050	1610	1190	237	58
10	353	192	179	e140	e130	e130	663	2070	1550	1150	227	55
11	360	195	153	e140	e127	e125	966	2260	1530	1150	225	67
12	418	193	151	e140	e130	e125	1310	1970	1440	1090	208	130
13	358	186	e155	e135	e135	e120	1000	2010	1650	1000	207	143
14	353	143	e160	e135	e134	e125	927	2080	2180	874	196	122
15	375	99	e164	e135	e132	e128	837	1870	1880	788	184	107
16	381	128	e150	e140	e130	e130	821	1750	1760	705	174	109
17	374	188	e151	e140	e130	e135	734	1910	2640	645	179	109
18	364	207	e150	e140	e128	e135	709	2270	2140	604	181	107
19	341	196	e150	e140	e130	e137	700	2580	1990	576	231	104
20	317	195	e150	e140	e132	e132	771	2820	2040	536	192	103
21	298	193	e155	e135	e132	e130	906	3150	2110	489	174	98
22	278	184	e150	e130	e132	e135	1080	2960	2300	480	200	95
23	268	169	e145	e130	e133	e130	1360	2300	2320	477	178	93
24	293	187	e145	e130	e132	e225	1710	2000	2250	463	176	97
25	216	185	e150	e130	e132	e326	1690	1930	2070	498	160	93
26	246	180	e150	e129	e132	e400	1640	2200	2300	577	149	90
27	256	182	e150	e129	e128	e500	1650	2500	2390	476	146	93
28	271	168	e153	e127	e126	e600	1710	2790	2340	422	144	94
29	259	154	e150	e127	---	650	1850	2920	2300	483	133	95
30	260	145	e140	e126	---	515	2070	2950	2310	599	124	91
31	256	---	e140	e130	---	458	---	2900	---	472	117	---
TOTAL	11472	5556	4777	4188	3654	6654	30154	73330	63700	30174	6805	2885
MEAN	370	185	154	135	131	215	1005	2365	2123	973	220	96.2
MAX	877	249	185	140	135	650	2070	3150	2960	2240	480	143
MIN	216	99	128	126	126	120	433	1750	1440	422	117	55
AC-FT	22750	11020	9480	8310	7250	13200	59810	145500	126300	59850	13500	5720

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 1998, BY WATER YEAR (WY)

MEAN	149	114	93.9	90.5	92.5	172	738	2129	2265	719	176	116
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	767	160	59.6	33.1
(WY)	1993	1991	1993	1992	1991	1991	1995	1990	1992	1994	1994	1994

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1905 - 1998	
ANNUAL TOTAL	319029		243349			
ANNUAL MEAN	874		667		579	
HIGHEST ANNUAL MEAN					886	1917
LOWEST ANNUAL MEAN					282	1992
HIGHEST DAILY MEAN	5040	Jun 2	3150	May 21	5350	Jun 15 1921
LOWEST DAILY MEAN	99	Nov 15	55	Sep 10	a17	Sep 12 1994
ANNUAL SEVEN-DAY MINIMUM	116	Sep 5	68	Sep 5	21	Sep 7 1994
INSTANTANEOUS PEAK FLOW			3440	Jun 3	b5740	Jun 3 1997
INSTANTANEOUS PEAK STAGE			5.98	Jun 3	c7.18	Jun 3 1997
ANNUAL RUNOFF (AC-FT)	632800		482700		419600	
10 PERCENT EXCEEDS	3100		2150		1970	
50 PERCENT EXCEEDS	273		200		139	
90 PERCENT EXCEEDS	120		126		68	

e-Estimated.
a-A lesser discharge may have occurred during periods of no gage-height record prior to Sep 20, 1919.
b-Peak discharge includes 370 ft^3/s overflow that bypassed the main channel.
c-Gage height reflects the discharge flowing in the main channel (5370 ft^3/s).

09243700 MIDDLE CREEK NEAR OAK CREEK, CO

LOCATION.--Lat 40°23'08", long 106°59'33", in SW¼SW¼ sec.13, T.5 N., R.86 W., Routt County, Hydrologic Unit 14050001, on left bank 1.1 mi upstream from mouth of Foidel Creek and 13.5 mi northwest of Oak Creek.

DRAINAGE AREA.--23.5 mi^2.

PERIOD OF RECORD.--October 1975 to September 1981, April 1982 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,720 ft above sea level, from topographic map. Oct. 1975 to Oct. 1, 1996, water-stage recorder at site 70 ft upstream at same datum.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	1.1	1.3	.71	.66	.82	8.4	e80	e16	e7.0	2.7	.56
2	2.1	1.2	1.2	.82	.66	.82	9.4	e85	e25	e7.0	2.1	.50
3	2.3	1.0	2.1	.82	.76	.77	11	e85	43	e7.0	1.8	.41
4	2.1	1.1	1.1	.73	.82	e.80	13	e90	26	e6.5	1.9	.37
5	1.9	1.1	.97	.67	.80	.85	16	e95	e19	e6.5	1.7	.32
6	1.8	1.0	1.0	.63	.71	.80	16	e90	e25	e6.5	1.4	.28
7	1.8	.97	1.0	.64	.67	e.75	15	e80	e15	e6.5	1.2	.27
8	2.2	1.0	1.1	.65	.60	.71	16	e77	e14	e6.0	1.1	.27
9	2.1	1.0	1.1	.61	.71	.71	17	72	e13	e6.0	1.1	.24
10	1.9	.95	.98	.70	.85	.70	20	67	e11	e6.0	.90	.26
11	1.9	1.0	.74	.74	.69	.77	27	63	e9.0	e6.0	.77	.32
12	2.1	.92	.76	.79	.70	.83	33	59	e8.0	e6.0	.83	.83
13	2.0	1.0	.78	.85	.68	.98	33	54	e8.0	e5.5	.80	.90
14	2.0	2.7	.85	.82	.63	1.2	31	50	e8.0	e5.0	.75	.71
15	1.9	1.9	1.0	.75	.66	e2.2	29	46	e7.5	e5.0	.72	.62
16	1.9	.50	.99	.86	.60	e2.0	29	41	e8.0	5.1	.68	.56
17	1.8	.48	.98	.94	.66	e1.4	27	36	e10	4.8	.82	.53
18	1.8	.56	.95	.74	.71	e3.2	29	33	e10	4.5	1.4	.49
19	1.8	1.2	.89	.77	.86	e3.0	26	30	e9.0	4.1	1.3	.38
20	1.7	1.3	.86	.68	1.0	e2.6	27	28	e9.5	4.4	.99	.36
21	1.7	1.4	.81	.73	.86	3.0	28	26	e9.0	3.7	1.0	.40
22	1.7	1.9	.87	.82	.68	2.6	32	24	e8.5	3.8	1.1	.44
23	1.7	1.3	.95	.64	.70	2.5	38	23	e8.5	3.3	.90	.46
24	2.0	1.2	.88	.67	.72	3.5	52	21	e8.5	3.4	.84	.50
25	1.8	1.2	.81	.64	e.75	8.1	e70	20	e8.5	4.5	.79	.33
26	2.0	1.4	.68	.62	e.80	11	e75	e18	e8.0	4.3	.76	.18
27	2.1	1.4	.75	.63	e.80	12	e75	e17	e8.0	3.5	.78	.25
28	1.7	1.4	.86	.62	e.80	12	e80	e17	e7.5	3.9	.73	.27
29	.96	1.8	.98	.64	---	11	e80	e17	e7.5	3.7	.67	.28
30	1.2	1.6	.81	.78	---	9.5	e80	e17	e7.5	3.4	.65	.32
31	1.1	---	.71	.69	---	8.7	---	e17	---	3.2	.59	---
TOTAL	57.36	36.58	29.76	22.40	20.54	109.81	1042.8	1478	375.5	156.1	33.77	12.61
MEAN	1.85	1.22	.96	.72	.73	3.54	34.8	47.7	12.5	5.04	1.09	.42
MAX	2.3	2.7	2.1	.94	1.0	12	80	95	43	7.0	2.7	.90
MIN	.96	.48	.68	.61	.60	.70	8.4	17	7.5	3.2	.59	.18
AC-FT	114	73	59	44	41	218	2070	2930	745	310	67	25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1998, BY WATER YEAR (WY)

MEAN	.49	.64	.58	.55	.73	1.97	13.2	25.5	6.13	1.98	1.17	.41
MAX	1.85	1.98	1.83	1.85	2.46	7.90	41.9	98.2	26.1	5.89	9.06	2.52
(WY)	1998	1985	1985	1985	1986	1986	1996	1984	1984	1984	1995	1997
MIN	.000	.000	.000	.000	.000	.67	1.01	1.00	.49	.092	.000	.000
(WY)	1978	1978	1978	1977	1978	1991	1977	1981	1990	1989	1977	1976

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1976 - 1998	
ANNUAL TOTAL	3141.59		3375.23			
ANNUAL MEAN	8.61		9.25		4.49	
HIGHEST ANNUAL MEAN					13.2	1984
LOWEST ANNUAL MEAN					.50	1977
HIGHEST DAILY MEAN	97	May 8	e,a95	May 5	297	May 14 1984
LOWEST DAILY MEAN	.48	Nov 17	.18	Sep 26	b.00	Oct 1 1975
ANNUAL SEVEN-DAY MINIMUM	.62	Feb 27	.28	Sep 5	.00	Oct 1 1975
INSTANTANEOUS PEAK FLOW			c,d103		f329	May 14 1984
INSTANTANEOUS PEAK STAGE			d,g3.27		h4.08	May 14 1984
ANNUAL RUNOFF (AC-FT)	6230		6690		3250	
10 PERCENT EXCEEDS	28		28		12	
50 PERCENT EXCEEDS	1.9		1.4		.78	
90 PERCENT EXCEEDS	.76		.63		.00	

e-Estimated.
a-May have been higher during period of no gage-height record, Apr 25 to May 8.
b-No flow many days most years.
c-From rating curve extended above 70 ft^3/s.
d-Sometime during period Apr 25 to May 8.
f-From rating curve extended above 77 ft^3/s.
g-From high-water mark.
h-Maximum gage height, 4.34 ft, Apr 24, 1996.

09243800 FOIDEL CREEK NEAR OAK CREEK, CO

LOCATION.--Lat 40°20'45", long 107°05'04", in NW¼SW¼ sec.31, T.5 N., R.86 W., Routt County, Hydrologic Unit 14050001, on right bank 2.3 mi downstream from Reservoir No. 1, 6.9 mi upstream from mouth, and 8.7 mi northwest of Oak Creek.

DRAINAGE AREA.--8.61 mi^2.

PERIOD OF RECORD.--October 1975 to October 1981, April 1982 to September 1983, October 1984 to current year. Water-quality data available, September 1975 to September 1983, and October 1984 to September 1993. Daily record for specific conductance and water temperature available, May 1976 to September 1981, April 1982 to September 1983, and March 1986 to September 1988.

GAGE.--Water-stage recorder. Elevation of gage is 6,880 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharge, which are poor. Natural flow of stream effected by Reservoir No. 1, which is 2.3 mi 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.1	.71	.86	.55	.87	5.1	23	5.4	2.2	1.2	.44
2	1.3	1.1	.66	.81	.53	.91	5.6	24	5.0	1.9	1.1	.46
3	1.4	1.1	.70	.85	.61	e.90	8.2	24	4.8	1.8	.98	.43
4	1.3	1.2	.97	.87	.69	.90	12	24	5.0	1.7	.98	.41
5	1.2	1.1	.58	.75	.71	.95	13	24	5.8	1.7	.92	.41
6	1.1	1.1	.59	.72	.73	.95	11	22	5.3	1.7	.74	.41
7	1.0	1.1	.62	.63	.71	.95	8.7	25	5.0	1.5	.35	.40
8	1.3	1.1	.66	.65	.79	.90	9.0	22	5.0	1.5	.34	.44
9	1.2	1.2	.65	.69	.83	.95	11	22	5.1	1.5	.39	.41
10	1.2	1.2	.60	.76	.78	.95	16	20	5.5	1.5	.40	.42
11	1.2	1.3	.55	.79	.81	1.0	23	19	6.0	1.5	.42	.49
12	1.2	1.3	e.60	.77	.78	.95	22	17	5.0	1.4	.42	.63
13	1.3	1.3	e.70	.74	.66	1.1	18	16	4.4	1.3	.43	.55
14	1.2	1.2	e.80	.75	.64	1.3	15	15	4.0	1.1	.43	.56
15	1.3	1.3	e.90	.80	.70	1.7	12	14	4.0	.95	.45	.50
16	1.4	1.5	1.0	.84	.82	1.9	13	13	4.0	.93	.46	.51
17	1.3	1.4	1.0	.92	.82	2.1	12	12	4.5	.88	.50	.50
18	1.3	1.1	1.0	.90	.83	2.4	13	11	4.3	.82	.53	.46
19	1.2	.99	.94	.87	.73	1.7	11	11	3.8	.82	.58	.46
20	1.2	.93	.92	.90	.67	1.5	11	10	3.5	.86	.59	.46
21	1.1	.87	1.0	.82	.67	1.1	12	10	3.4	.88	.54	.43
22	1.1	.95	.80	.79	.75	1.8	14	9.6	3.3	.84	.59	.44
23	1.0	.88	.79	.76	.90	2.1	17	9.1	3.0	.84	.58	.45
24	1.2	.84	.81	.70	e.92	3.2	19	7.9	2.8	1.0	.59	.46
25	1.2	.79	.90	.57	e.96	7.4	21	7.9	2.7	1.5	.56	.43
26	1.1	.76	1.0	.52	.98	14	21	7.7	2.5	1.4	.53	.42
27	1.1	.79	.95	.53	.78	12	21	7.5	2.4	1.3	.50	.41
28	1.1	.78	.83	.56	.76	12	23	7.2	2.3	1.1	.46	.41
29	1.1	.75	.65	.61	---	9.3	23	6.6	2.3	1.4	.45	.45
30	1.1	.78	.62	.63	---	6.6	23	6.1	2.3	1.5	.46	.47
31	1.1	---	.79	.59	---	5.3	---	5.8	---	1.4	.44	---
TOTAL	37.2	31.81	24.29	22.95	21.11	99.68	443.6	453.4	122.4	40.72	17.91	13.72
MEAN	1.20	1.06	.78	.74	.75	3.22	14.8	14.6	4.08	1.31	.58	.46
MAX	1.4	1.5	1.0	.92	.98	14	23	25	6.0	2.2	1.2	.63
MIN	1.0	.75	.55	.52	.53	.87	5.1	5.8	2.3	.82	.34	.40
AC-FT	74	63	48	46	42	198	880	899	243	81	36	27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1998, BY WATER YEAR (WY)

MEAN	.54	.55	.44	.42	.72	2.10	7.34	5.91	2.03	.86	.47	.39
MAX	3.37	2.24	1.11	1.13	6.34	7.90	23.5	17.2	6.63	2.09	1.43	2.15
(WY)	1986	1986	1986	1986	1986	1986	1996	1997	1997	1995	1985	1997
MIN	.000	.000	.000	.000	.000	.000	.11	.077	.024	.000	.000	.000
(WY)	1976	1976	1976	1976	1977	1978	1977	1977	1977	1977	1976	1976

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1976 - 1998	
ANNUAL TOTAL	1567.73		1328.79			
ANNUAL MEAN	4.30		3.64		1.82	
HIGHEST ANNUAL MEAN					4.59	1996
LOWEST ANNUAL MEAN					.02	1977
HIGHEST DAILY MEAN	29	Apr 29	25	May 7	49	May 5 1996
LOWEST DAILY MEAN	.07	Feb 4	.34	Aug 8	a.00	Oct 1 1975
ANNUAL SEVEN-DAY MINIMUM	.11	Feb 2	.39	Aug 7	.00	Oct 1 1975
INSTANTANEOUS PEAK FLOW			40	Apr 11	b65	May 5 1996
INSTANTANEOUS PEAK STAGE			3.61	Apr 11	4.47	May 5 1996
ANNUAL RUNOFF (AC-FT)	3110		2640		1320	
10 PERCENT EXCEEDS	13		12		4.9	
50 PERCENT EXCEEDS	1.2		1.0		.60	
90 PERCENT EXCEEDS	.19		.47		.00	

e-Estimated
a-No flow many days most years.
b-From rating curve extended above 23 ft^3/s.

09243900 FOIDEL CREEK AT MOUTH, NEAR OAK CREEK, CO

LOCATION.--Lat 40°23'25", long 106°59'39", in SE¼SE¼ sec.14, T.5 N., R.86 W., Routt County, Hydrologic Unit 14050001, on left bank 1.0 mi upstream from mouth and 13.6 mi northwest of Oak Creek.

DRAINAGE AREA.--17.5 mi^2.

PERIOD OF RECORD.--October 1975 to September 1981, June 1982 to current year. Water-quality data available, April 1976 to September 1981, June 1982 to September 1988. Daily records for water temperature and specific conductance are available, April 1976 to September 1981. Daily records for suspended-sediment discharge are available, January 1978 to September 1981. Precipitation records are available, July 1978 to September 1997.

REVISED RECORDS.--WDR CO-78-3: 1976 (M), 1976.

GAGE.--Water-stage recorder and wooden control. Elevation of gage is 6,730 ft above sea level, from topographic map. Prior to Feb. 19, 1992, at site 600 ft downstream, at same datum.

REMARKS.--No estimated daily discharges. Records good. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.3	1.3	1.4	1.4	1.7	15	26	9.0	3.9	2.8	.40
2	1.4	1.2	1.6	1.5	1.4	1.7	19	26	8.2	4.0	2.1	1.7
3	1.5	1.1	1.4	1.5	1.3	1.7	24	27	7.5	3.9	1.9	1.4
4	1.4	1.1	.93	1.7	1.4	1.7	31	27	8.1	3.5	2.3	.71
5	1.2	1.1	1.5	1.7	1.6	1.6	36	27	11	3.5	2.1	.60
6	1.0	1.1	1.5	1.5	1.5	1.6	33	28	11	3.3	1.7	.46
7	1.0	1.1	1.4	1.6	1.6	1.7	27	35	9.7	3.2	1.3	.55
8	1.3	1.1	1.5	1.4	1.7	1.6	27	33	10	2.9	.87	.42
9	1.4	1.2	1.6	1.4	1.7	1.4	26	31	11	2.6	.93	.38
10	1.2	1.3	1.7	1.3	1.6	1.3	29	29	12	2.9	.93	.39
11	1.3	1.3	1.5	1.6	1.6	1.2	35	28	13	2.8	.91	.50
12	1.6	1.4	1.6	1.6	1.7	1.2	42	27	10	2.3	.81	.94
13	1.7	1.4	1.7	1.6	1.7	1.3	36	24	8.4	1.8	.74	1.4
14	1.9	1.1	1.7	1.6	1.7	1.4	31	22	8.0	1.6	.69	.91
15	1.6	.88	1.6	1.5	1.6	1.5	28	22	7.5	1.4	.69	.65
16	1.5	1.2	1.6	1.6	1.6	1.6	28	20	7.4	1.3	.66	.52
17	1.5	1.2	1.5	1.6	1.6	1.6	28	18	9.7	1.1	.68	.69
18	1.5	1.3	1.5	1.7	1.6	1.7	29	17	8.8	1.1	1.5	.91
19	1.4	1.5	1.4	1.7	1.6	1.7	28	16	7.1	1.0	1.2	.55
20	1.4	1.6	1.5	1.7	1.6	2.2	24	16	6.4	1.0	.97	.50
21	1.4	1.5	1.5	1.7	1.5	1.9	22	15	6.1	1.1	1.1	.57
22	1.4	1.6	1.4	1.6	1.5	2.1	21	15	5.5	1.2	1.2	.57
23	1.3	1.2	1.3	1.7	1.3	4.5	22	15	5.4	1.2	.91	.55
24	1.6	1.5	1.4	1.6	1.2	23	24	14	5.1	1.5	.91	.63
25	2.1	1.6	1.4	1.5	1.2	24	27	13	5.1	3.0	.66	.53
26	1.4	1.6	1.5	1.4	1.2	35	26	13	4.9	2.7	.69	.46
27	1.8	1.6	1.4	1.3	1.5	38	25	12	4.9	2.3	.65	.37
28	2.3	1.5	1.4	1.4	1.6	35	26	11	4.4	2.0	.70	.39
29	1.8	1.6	1.4	1.5	---	28	26	11	4.3	2.6	.72	.35
30	1.5	1.3	1.3	1.5	---	19	26	10	4.1	4.0	.60	.46
31	1.4	---	1.4	1.4	---	15	---	9.5	---	3.4	.51	---
TOTAL	46.2	39.48	45.43	47.8	42.5	256.9	821	637.5	233.6	74.1	34.43	19.46
MEAN	1.49	1.32	1.47	1.54	1.52	8.29	27.4	20.6	7.79	2.39	1.11	.65
MAX	2.3	1.6	1.7	1.7	1.7	38	42	35	13	4.0	2.8	1.7
MIN	1.0	.88	.93	1.3	1.2	1.2	15	9.5	4.1	1.0	.51	.35
AC-FT	92	78	90	95	84	510	1630	1260	463	147	68	39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1998, BY WATER YEAR (WY)

MEAN	.89	1.08	1.00	.96	1.44	5.28	15.2	10.3	3.40	1.50	.77	.57
MAX	4.05	5.03	5.96	6.01	10.4	17.0	41.1	34.9	10.9	3.68	2.84	3.39
(WY)	1986	1986	1986	1986	1986	1986	1996	1984	1984	1984	1983	1997
MIN	.000	.000	.000	.000	.000	.39	.41	.043	.000	.000	.000	.000
(WY)	1976	1977	1976	1977	1978	1977	1977	1977	1977	1976	1976	1976

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1976 - 1998	
ANNUAL TOTAL	2286.90		2298.40			
ANNUAL MEAN	6.27		6.30		3.53	
HIGHEST ANNUAL MEAN					7.63	1986
LOWEST ANNUAL MEAN					.070	1977
HIGHEST DAILY MEAN	49	Apr 21	42	Apr 12	79	Apr 25 1984
LOWEST DAILY MEAN	.35	Mar 1	.35	Sep 29	a.00	Oct 1 1975
ANNUAL SEVEN-DAY MINIMUM	.45	Feb 24	.46	Sep 24	.00	Oct 1 1975
INSTANTANEOUS PEAK FLOW			53	Apr 12	b90	Apr 11 1996
INSTANTANEOUS PEAK STAGE			5.73	Apr 12	c6.43	Apr 11 1996
ANNUAL RUNOFF (AC-FT)	4540		4560		2560	
10 PERCENT EXCEEDS	21		26		9.5	
50 PERCENT EXCEEDS	1.6		1.6		1.0	
90 PERCENT EXCEEDS	.63		.78		.00	

a-No flow many days, most years.
b-Also occurred Apr 22, 1980.
c-Maximum gage height, 6.75 ft, Mar 20, 1997, backwater from ice.

09246200 ELKHEAD CREEK ABOVE LONG GULCH, NEAR HAYDEN, CO

LOCATION.--Lat 40°35'30", long 107°19'13", in NW¼SE¼ 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 mi^2.

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.--Record 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	45	e30	e30	e36	e39	171	1360	385	107	24	2.6
2	25	33	29	e31	e38	e36	220	1330	354	99	19	2.2
3	37	30	31	e32	e39	e34	266	1400	323	e85	17	2.4
4	48	39	e31	e35	e38	e35	360	1740	338	e80	17	2.5
5	34	31	e30	e32	e45	e41	354	1610	384	e75	15	2.2
6	30	31	36	e38	e44	e39	262	1290	290	e70	15	1.7
7	27	31	36	e37	e41	e38	237	1290	243	e60	13	1.2
8	40	31	37	e35	e42	e41	212	1250	220	52	11	1.5
9	51	32	40	e33	e40	e37	228	1090	224	49	10	1.8
10	42	32	40	e34	e39	e35	281	1280	281	48	10	2.6
11	43	33	40	e33	e37	e36	505	1340	230	48	10	2.7
12	55	34	e39	e35	e38	e35	647	1050	194	44	9.5	5.6
13	50	33	e37	e38	e36	e36	419	1090	180	38	8.8	8.3
14	42	22	e36	e36	e39	e37	399	1030	195	34	8.7	8.0
15	47	24	e34	e32	e40	e41	284	844	193	30	7.4	6.3
16	53	40	e35	e31	e41	e46	300	768	211	29	7.5	5.6
17	47	22	e31	e33	e39	e55	271	871	530	27	7.3	4.1
18	43	28	e32	e32	e39	e85	249	916	609	24	6.4	3.7
19	38	34	e31	e34	e41	e100	229	934	594	21	6.1	3.2
20	36	29	e30	e33	e40	e96	237	813	461	19	6.2	2.9
21	34	31	e33	e35	e44	e81	337	929	343	18	5.9	3.0
22	33	33	e31	e34	e43	e85	481	758	277	18	6.2	3.7
23	33	60	e30	e36	e36	201	702	583	237	21	6.6	4.2
24	42	44	e34	e35	e38	303	898	466	206	20	7.1	4.2
25	36	35	e36	e37	e35	732	843	500	187	22	5.6	3.8
26	31	32	e35	e36	e38	702	856	495	168	23	3.9	3.8
27	33	30	e34	e38	e33	521	943	506	155	23	3.8	3.3
28	42	35	e35	e37	e41	462	1100	525	142	19	3.8	3.2
29	41	29	e33	e34	---	278	1160	508	129	31	3.2	3.2
30	43	33	e34	e36	---	207	1330	473	118	44	3.6	3.5
31	43	---	e35	e39	---	166	---	436	---	39	2.6	---
TOTAL	1224	996	1055	1071	1100	4680	14781	29475	8401	1317	281.2	107.0
MEAN	39.5	33.2	34.0	34.5	39.3	151	493	951	280	42.5	9.07	3.57
MAX	55	60	40	39	45	732	1330	1740	609	107	24	8.3
MIN	25	22	29	30	33	34	171	436	118	18	2.6	1.2
AC-FT	2430	1980	2090	2120	2180	9280	29320	58460	16660	2610	558	212

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1998, BY WATER YEAR (WY)

MEAN	18.5	20.3	21.0	21.2	22.9	108	423	966	245	25.6	8.26	12.4
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	5.10	12.6	12.4	8.56	10.3	35.6	361	757	119	12.2	2.23	2.10
(WY)	1997	1997	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1995 - 1998	
ANNUAL TOTAL	70306.9		64488.2			
ANNUAL MEAN	193		177		159	
HIGHEST ANNUAL MEAN					187	1997
LOWEST ANNUAL MEAN					113	1996
HIGHEST DAILY MEAN	1860	May 7	1740	May 4	1860	May 7 1997
LOWEST DAILY MEAN	4.8	Sep 10	1.2	Sep 7	.10	Sep 4 1996
ANNUAL SEVEN-DAY MINIMUM	5.4	Sep 6	1.9	Sep 3	.36	Sep 1 1996
INSTANTANEOUS PEAK FLOW			2460	May 4	a2760	May 7 1997
INSTANTANEOUS PEAK STAGE			7.54	May 4	7.86	May 7 1997
ANNUAL RUNOFF (AC-FT)	139500		127900		114900	
10 PERCENT EXCEEDS	655		551		495	
50 PERCENT EXCEEDS	33		37		21	
90 PERCENT EXCEEDS	12		6.2		4.3	

e-Estimated.
a-From rating extended above 1,120 ft^3/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 current year.
WATER TEMPERATURE: September 1995 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Specific conductance record is good except for Mar. 24-25, Mar. 28 - 29, Apr. 4 - 6, 10 - 18 and May 11-13 which is poor. Water temperature record is good. Interruptions in daily record are the result of instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 719 microsiemens, Feb. 21, 1998; minimum, 101 microsiemens, May 11, 1996.
WATER TEMPERATURE: Maximum, 28.6°C, July 20, 1998; minimum, 0.0°C, on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 719 microsiemens, Feb. 21; minimum, 119 microsiemens, May 19.
WATER TEMPERATURE: Maximum, 28.6°C, July 20; minimum, 0.0°C, on many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	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)
OCT											
09...	1340	50	420	8.5	9.5	12	9.7	170	41	17	25
NOV											
04...	1145	44	489	8.4	3.0	7.6	11.0	200	48	20	27
DEC											
23...	1400	29	569	8.0	0.0	2.9	10.9	220	49	23	35
JAN											
21...	1600	e35	645	7.9	0.0	3.1	11.1	240	53	27	42
FEB											
27...	0930	33	658	8.0	0.0	1.8	10.9	250	57	28	44
MAR											
25...	1230	445	399	7.8	0.0	620	11.0	140	31	15	27
APR											
21...	1140	278	384	8.0	6.0	100	10.4	150	35	15	22
MAY											
13...	1400	887	154	7.8	7.0	--	10.4	69	18	5.9	6.2
JUN											
03...	1345	321	160	8.1	15.0	56	8.2	64	16	5.4	6.7
JUL											
16...	1355	26	364	8.8	25.5	2.7	7.0	150	35	14	21
AUG											
18...	1250	5.9	479	8.5	20.5	4.1	8.0	180	41	18	33
SEP											
09...	1400	2.5	563	8.5	21.5	13	7.5	200	44	22	42

e-Estimated.

09246200 ELKHEAD CREEK ABOVE LONG GULCH, NEAR HAYDEN, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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, 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											
09...	0.8	1.9	--	128	87	3.1	0.1	11	262	0.36	35.4
NOV											
04...	0.8	1.9	--	135	110	2.9	<0.1	11	306	0.42	36.6
DEC											
23...	1	1.5	--	149	140	4.4	0.1	12	357	0.48	27.9
JAN											
21...	1	1.9	--	152	180	4.8	0.1	13	411	0.56	--
FEB											
27...	1	1.7	--	154	190	4.7	0.1	13	429	0.58	38.2
MAR											
25...	1	2.5	--	82	120	2.2	0.1	8.0	253	0.34	304
APR											
21...	0.8	1.9	--	106	87	2.7	0.1	9.0	238	0.32	179
MAY											
13...	0.3	1.0	63	--	18	0.8	<0.1	11	100	0.14	240
JUN											
03...	0.4	0.9	--	59	16	0.7	<0.1	11	93	0.13	80.9
JUL											
16...	0.8	1.5	--	136	51	3.0	0.1	8.7	217	0.29	15.2
AUG											
18...	1	2.6	--	179	65	7.2	0.2	7.1	282	0.38	4.49
SEP											
09...	1	3.3	--	201	83	10	0.2	8.5	334	0.45	2.27

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)	PHOS-PHORUS ORTHO, 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										
09...	<0.01	<0.05	<0.02	2.0	0.25	0.30	<0.01	<0.01	--	--
NOV										
04...	0.03	<0.05	<0.02	0.25	0.14	<0.01	<0.01	<0.01	--	--
DEC										
23...	<0.01	0.14	<0.02	0.17	0.18	<0.01	<0.01	<0.01	--	--
JAN										
21...	0.01	0.25	<0.02	0.19	0.17	<0.01	<0.01	<0.01	--	--
FEB										
27...	<0.01	0.20	0.04	0.25	0.21	<0.01	0.01	0.02	--	--
MAR										
25...	0.01	0.39	0.03	1.2	0.35	0.92	0.06	0.05	--	--
APR										
21...	<0.01	0.22	0.03	0.42	0.31	0.07	0.01	0.04	11	9.2
MAY										
13...	<0.01	0.27	0.04	0.45	0.29	0.08	0.02	0.01	12	7.2
JUN										
03...	0.02	<0.05	<0.02	0.31	0.27	0.06	<0.01	0.02	--	--
JUL										
16...	<0.01	<0.05	0.03	0.26	0.23	<0.01	<0.01	<0.01	4.6	4.6
AUG										
18...	0.01	<0.05	0.04	0.39	0.31	0.02	<0.01	0.01	--	--
SEP										
09...	<0.01	<0.05	0.04	0.57	0.37	0.04	<0.01	0.01	6.7	6.0

09246200 ELKHEAD CREEK ABOVE LONG GULCH, NEAR HAYDEN, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)
MAY											
13...	4000	1	<1	<100	27	<10	20	<1	<1	5	<1
JUN											
03...	--	--	--	--	--	--	--	--	<1	--	--
AUG											
18...	230	1	1	<100	70	<10	50	<1	<1	<1	<1

DATE	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI) (01132)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)
MAY											
13...	4	10	2	6900	41	7	<1	<10	130	7	<0.1
JUN											
03...	--	--	1	--	--	--	<1	--	--	10	--
AUG											
18...	1	2	1	280	<10	<1	<1	<10	60	15	<0.1

DATE	MERCURY DISSOLVED (UG/L AS HG) (71890)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, DISSOLVED (UG/L AS ZN) (01090)
MAY											
13...	<0.1	<1	11	2	<1	<1	<1	--	150	30	<20
JUN											
03...	--	--	--	--	--	<1	--	<1	--	--	<20
AUG											
18...	<0.1	1.6	2	3	<1	<1	<1	<1	500	<10	<20

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 0.062 MM (70331)
OCT					
09...	1340	50	33	4.5	93
NOV					
04...	1145	44	30	3.6	--
DEC					
23...	1400	29	6	0.45	--
JAN					
21...	1600	e35	13	e1.5	--
FEB					
27...	0930	33	11	1.0	--
MAR					
25...	1230	445	2200	2640	--
APR					
21...	1140	278	351	263	--
MAY					
13...	1400	887	517	1240	--
JUN					
03...	1345	321	220	191	--
JUL					
16...	1355	26	6	0.39	--
AUG					
18...	1250	5.9	15	0.24	--
SEP					
09...	1400	2.5	26	0.18	--

e-Estimated.

09246200 ELKHEAD CREEK ABOVE LONG GULCH, NEAR HAYDEN, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	436	430	432	528	497	512	632	510	569	550	540	546
2	432	428	430	543	489	523	613	509	565	559	549	554
3	432	417	429	567	423	511	555	526	537	570	559	564
4	474	422	446	544	472	505	598	541	568	582	570	574
5	467	434	448	483	466	473	601	556	575	586	582	584
6	468	443	458	487	447	470	580	545	561	595	586	592
7	448	423	436	486	445	465	572	549	558	610	594	599
8	429	395	416	464	450	455	555	541	548	614	597	609
9	480	393	424	460	441	452	552	546	549	597	588	591
10	519	480	495	448	437	442	557	545	548	593	587	590
11	514	458	478	455	436	444	571	527	550	589	584	586
12	502	433	449	467	440	454	584	570	577	593	586	591
13	545	478	517	486	457	472	585	563	574	602	591	596
14	492	475	483	522	410	487	573	555	565	610	602	605
15	476	425	457	627	497	559	573	556	565	622	610	617
16	425	401	408	658	567	613	559	548	554	630	614	620
17	407	396	402	614	584	601	553	544	548	641	630	637
18	396	389	392	596	484	543	546	539	543	638	603	621
19	390	385	387	529	459	486	549	541	546	663	619	654
20	392	388	389	488	412	459	559	549	552	667	654	662
21	393	390	391	485	415	442	570	559	566	655	622	641
22	396	390	393	504	422	465	572	567	569	622	611	615
23	399	393	396	570	457	508	569	562	566	611	603	607
24	400	389	394	545	495	524	569	564	567	604	600	602
25	461	395	415	553	514	528	572	565	568	602	600	601
26	549	448	488	542	510	526	574	563	569	602	598	600
27	582	440	507	544	475	522	574	565	570	602	592	596
28	563	446	513	538	474	505	568	558	565	609	601	605
29	568	487	533	575	493	538	558	547	555	605	598	602
30	568	518	534	578	478	522	549	540	545	613	605	608
31	531	508	519	---	---	---	543	536	541	615	613	614
MONTH	582	385	447	658	410	500	632	509	559	667	540	603
		FEBRUARY			MARCH			APRIL			MAY	
1	614	609	612	704	692	696	---	---	---	181	154	166
2	612	606	609	704	698	702	---	---	---	182	157	168
3	613	607	610	698	652	676	---	---	---	175	147	162
4	608	605	607	652	646	649	457	374	422	165	139	151
5	616	605	611	660	650	654	454	370	413	166	140	153
6	617	614	615	717	660	691	479	422	446	177	150	163
7	622	612	617	707	654	676	---	---	---	205	159	175
8	625	620	622	659	651	655	---	---	---	217	159	180
9	627	613	622	716	659	689	---	---	---	204	173	189
10	636	624	627	704	632	661	520	406	492	305	139	189
11	665	636	656	644	631	634	427	228	372	351	141	209
12	669	647	658	644	630	634	280	193	244	168	136	155
13	661	644	651	654	633	644	328	279	302	158	131	146
14	647	641	644	668	638	654	339	310	324	160	141	151
15	641	634	637	665	639	648	468	330	406	175	152	165
16	636	625	630	668	625	642	470	431	448	177	155	168
17	629	622	625	637	593	614	482	445	461	162	137	150
18	628	620	625	607	578	590	518	403	468	148	126	135
19	644	624	632	608	589	594	---	---	---	142	119	130
20	678	636	659	625	608	616	---	---	---	142	122	131
21	719	644	684	639	624	632	515	358	410	140	121	130
22	696	634	665	654	638	643	364	283	324	142	120	129
23	634	600	610	640	631	637	295	227	263	157	138	147
24	616	603	607	636	503	593	260	206	228	166	145	154
25	616	564	596	503	263	394	245	211	227	167	134	147
26	614	572	589	317	244	282	233	199	220	165	148	154
27	679	614	649	371	269	304	213	179	200	159	144	151
28	693	674	681	346	297	330	206	159	184	151	134	143
29	---	---	---	441	332	377	199	162	184	153	132	143
30	---	---	---	---	---	---	189	155	172	153	138	146
31	---	---	---	---	---	---	---	---	---	157	133	144
MONTH	719	564	630	---	---	---	---	---	---	351	119	156

09246200 ELKHEAD CREEK ABOVE LONG GULCH, NEAR HAYDEN, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	157	149	153	280	268	274	471	430	458	523	506	512
2	161	147	153	303	245	279	489	452	468	513	507	510
3	161	152	156	---	---	---	485	453	469	546	512	527
4	186	158	164	---	---	---	453	438	446	550	519	536
5	245	186	228	---	---	---	445	431	441	523	520	522
6	219	202	206	---	---	---	441	428	434	544	522	533
7	215	207	211	330	321	327	440	427	432	565	543	556
8	217	205	208	334	321	327	439	421	430	568	555	562
9	221	203	209	334	328	331	455	434	448	584	563	571
10	271	221	248	340	333	337	450	433	440	586	577	582
11	275	254	262	340	332	336	446	433	439	594	577	586
12	254	240	243	353	331	340	554	446	464	577	555	564
13	242	233	238	353	345	349	554	478	498	560	521	541
14	244	234	236	352	346	349	484	477	480	521	497	507
15	248	243	246	353	340	348	488	477	483	504	491	497
16	256	241	245	371	349	360	492	480	485	499	486	493
17	340	256	290	375	364	370	508	476	496	525	497	510
18	348	250	311	377	370	374	496	479	492	530	514	522
19	250	191	212	383	377	379	---	---	---	543	526	534
20	191	179	184	388	378	383	---	---	---	556	543	549
21	199	190	194	400	381	389	469	460	466	564	555	559
22	210	198	201	399	378	390	472	461	468	586	562	571
23	217	210	213	393	369	383	468	410	461	683	586	643
24	221	212	217	382	373	376	495	410	448	656	587	607
25	232	221	228	398	377	384	501	493	497	587	577	582
26	244	232	239	399	390	396	516	477	496	580	564	574
27	249	241	246	460	385	420	511	498	505	564	553	558
28	258	245	252	466	447	460	516	504	509	555	544	550
29	268	253	260	461	406	428	517	502	510	573	548	558
30	277	255	266	380	343	352	514	491	501	585	573	579
31	---	---	---	430	378	405	522	514	517	---	---	---
MONTH	348	147	224	---	---	---	---	---	---	683	486	550

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.8	10.2	13.5	3.8	1.7	2.8	.0	.0	.0	.0	.0	.0
2	16.2	11.6	13.9	3.5	.0	1.6	.0	.0	.0	.0	.0	.0
3	16.7	12.8	14.4	3.5	.0	1.6	.0	.0	.0	.0	.0	.0
4	15.8	10.3	13.1	5.0	1.1	2.9	.0	.0	.0	.0	.0	.0
5	16.2	10.1	13.1	4.9	.4	2.7	.0	.0	.0	.0	.0	.0
6	16.4	10.2	13.3	5.0	.5	2.8	.0	.0	.0	.0	.0	.0
7	14.6	10.5	12.4	5.2	.7	3.0	.0	.0	.0	.0	.0	.0
8	11.6	8.2	9.7	4.8	1.4	3.1	.0	.0	.0	.0	.0	.0
9	10.7	5.2	8.0	4.0	2.4	3.5	.0	.0	.0	.0	.0	.0
10	10.9	6.2	8.7	2.4	1.2	1.9	.0	.0	.0	.0	.0	.0
11	10.4	7.6	8.9	2.0	.7	1.4	.0	.0	.0	.0	.0	.0
12	7.6	4.2	6.0	2.5	.4	1.5	.0	.0	.0	.0	.0	.0
13	5.6	2.5	4.2	2.7	.8	1.7	.0	.0	.0	.0	.0	.0
14	7.9	2.2	5.0	1.5	.0	.4	.0	.0	.0	.0	.0	.0
15	8.9	3.4	6.1	.3	.0	.1	.0	.0	.0	.0	.0	.0
16	9.3	4.1	6.7	.3	.0	.1	.0	.0	.0	.0	.0	.0
17	10.1	4.4	7.2	.3	.0	.1	.0	.0	.0	.0	.0	.0
18	10.4	5.1	7.7	.3	.0	.1	.0	.0	.0	.0	.0	.0
19	10.1	5.0	7.5	.3	.0	.0	.0	.0	.0	.0	.0	.0
20	10.0	5.2	7.5	.4	.0	.1	.0	.0	.0	.0	.0	.0
21	9.4	4.6	7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22	8.8	4.0	6.5	.1	.0	.0	.0	.0	.0	.0	.0	.0
23	6.4	3.6	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	4.7	1.7	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	5.3	.9	2.8	.1	.0	.0	.0	.0	.0	.0	.0	.0
26	4.3	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27	5.1	.0	2.4	.1	.0	.0	.0	.0	.0	.0	.0	.0
28	5.2	.8	3.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
29	5.9	1.6	3.8	.4	.0	.1	.0	.0	.0	.0	.0	.0
30	5.5	4.0	4.7	.2	.0	.0	.0	.0	.0	.0	.0	.0
31	6.0	3.4	4.4	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	16.8	.0	7.5	5.2	.0	1.0	.0	.0	.0	.0	.0	.0

09246200 ELKHEAD CREEK ABOVE LONG GULCH, NEAR HAYDEN, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

	FEBRUARY			MARCH			APRIL			MAY		
1	.0	.0	.0	.0	.0	.0	---	---	---	7.8	1.6	4.5
2	.0	.0	.0	.0	.0	.0	---	2.6	---	8.5	2.1	5.2
3	.0	.0	.0	.0	.0	.0	7.5	1.4	4.7	9.8	2.4	5.8
4	.0	.0	.0	.0	.0	.0	7.0	1.9	4.5	8.4	1.8	5.0
5	.0	.0	.0	.0	.0	.0	6.6	2.2	4.4	7.0	2.3	4.8
6	.0	.0	.0	.0	.0	.0	5.9	2.0	3.6	6.6	2.3	4.6
7	.0	.0	.0	.0	.0	.0	---	2.2	---	7.1	3.9	5.5
8	.0	.0	.0	.0	.0	.0	---	---	---	6.8	3.4	4.8
9	.0	.0	.0	.0	.0	.0	---	---	---	8.4	3.3	5.7
10	.0	.0	.0	.0	.0	.0	---	3.4	---	10.0	4.1	7.1
11	.0	.0	.0	.0	.0	.0	10.0	2.0	5.9	8.9	4.4	6.4
12	.0	.0	.0	.0	.0	.0	7.2	1.9	3.2	8.8	4.1	6.4
13	.0	.0	.0	.0	.0	.0	5.3	1.3	3.3	8.8	5.5	7.0
14	.0	.0	.0	.0	.0	.0	5.6	2.1	4.0	7.3	5.2	6.3
15	.0	.0	.0	.0	.0	.0	6.5	2.3	4.4	8.6	4.0	6.3
16	.0	.0	.0	.0	.0	.0	6.4	3.3	4.6	10.0	4.8	7.5
17	.0	.0	.0	.0	.0	.0	5.2	2.4	4.0	11.3	5.3	8.4
18	.0	.0	.0	.0	.0	.0	7.5	2.3	4.9	11.7	5.4	8.7
19	.0	.0	.0	.0	.0	.0	7.0	2.6	4.6	11.2	6.1	9.0
20	.0	.0	.0	.0	.0	.0	8.8	4.2	6.2	11.6	7.3	9.7
21	.0	.0	.0	.0	.0	.0	9.8	3.5	6.9	10.9	7.3	9.2
22	.0	.0	.0	.0	.0	.0	10.7	2.4	6.8	9.7	5.5	7.8
23	.0	.0	.0	.2	.0	.0	9.4	2.0	5.8	10.7	6.0	8.3
24	.0	.0	.0	.0	.0	.0	6.5	1.8	4.1	10.0	6.9	8.6
25	.0	.0	.0	.6	.0	.1	7.9	1.5	4.4	12.6	5.5	9.0
26	.0	.0	.0	.8	.0	.2	7.3	1.7	4.4	12.1	9.1	10.6
27	.0	.0	.0	3.7	.0	1.5	8.3	1.3	4.7	13.3	7.7	10.5
28	.0	.0	.0	3.2	.3	1.8	8.4	1.1	4.7	14.0	8.7	11.4
29	---	---	---	3.7	.4	2.1	8.8	1.1	4.8	13.4	9.7	11.8
30	---	---	---	---	---	---	9.0	1.4	5.0	14.3	9.4	11.9
31	---	---	---	---	---	---	---	---	---	14.4	9.8	12.3
MONTH	.0	.0	.0	---	---	---	---	---	---	14.4	1.6	7.7

	JUNE			JULY			AUGUST			SEPTEMBER		
1	15.5	10.2	12.9	24.8	17.2	21.0	23.7	18.3	20.8	21.8	16.1	18.6
2	16.3	10.1	13.3	---	16.3	---	22.0	16.3	19.5	23.9	14.8	19.3
3	15.0	10.3	13.1	---	---	---	24.1	16.6	20.1	24.0	15.0	19.6
4	13.3	8.4	10.7	---	---	---	22.7	17.3	20.0	24.5	15.5	20.1
5	11.0	6.8	8.7	---	---	---	25.5	16.0	20.8	24.4	17.0	20.6
6	12.1	6.5	9.4	---	---	---	26.2	16.8	21.5	25.4	16.8	21.3
7	16.1	9.6	12.6	25.0	---	---	26.7	17.4	22.0	25.3	17.8	21.7
8	14.6	11.1	13.0	26.5	18.7	22.5	26.0	17.8	21.5	23.5	17.8	20.7
9	12.8	9.7	11.4	24.1	18.6	21.6	26.1	18.3	21.7	21.1	16.6	19.1
10	12.0	8.5	10.3	21.4	18.1	20.1	24.9	18.1	21.4	20.5	15.6	18.1
11	15.0	9.0	12.0	24.3	16.9	20.6	25.2	17.1	20.9	20.7	15.5	18.0
12	17.7	10.7	14.1	25.8	17.4	21.5	23.3	16.7	20.1	20.0	16.6	18.1
13	15.8	12.4	13.4	26.5	17.6	22.0	24.1	16.0	20.1	16.8	14.0	15.6
14	13.1	10.8	11.9	26.5	18.8	22.5	25.2	16.3	20.5	21.1	12.4	16.5
15	13.1	8.5	11.0	26.8	18.4	22.6	24.5	17.1	20.7	21.2	13.7	17.4
16	12.0	9.6	10.7	27.2	18.1	22.7	24.8	16.9	20.5	20.8	14.4	17.6
17	9.6	6.2	7.6	27.8	18.3	23.1	25.3	17.7	21.2	21.7	13.8	17.8
18	8.1	4.9	6.4	28.0	18.7	23.5	---	17.2	---	19.6	13.4	16.9
19	14.0	6.3	9.9	28.3	19.4	23.8	---	---	---	19.5	13.5	16.6
20	15.8	10.3	13.2	28.6	19.2	23.9	---	---	---	18.2	12.9	15.6
21	17.7	11.7	14.8	26.2	19.6	23.0	19.7	---	---	18.2	13.2	15.5
22	19.3	12.9	16.1	26.6	19.7	22.6	22.9	14.5	18.7	18.4	11.5	15.2
23	18.4	12.5	15.7	24.5	20.0	22.1	23.9	15.8	20.0	17.7	13.0	15.4
24	17.2	12.2	15.0	25.0	19.8	22.3	25.0	16.4	20.5	18.3	12.2	15.4
25	18.9	11.2	15.1	23.6	20.0	21.6	23.8	16.2	20.2	17.2	11.5	14.7
26	19.0	13.6	16.3	25.0	18.9	21.8	24.2	17.6	21.0	16.8	10.8	14.0
27	20.3	13.2	16.8	26.3	18.7	22.4	23.7	17.8	20.7	16.7	9.8	13.5
28	21.3	13.7	17.6	24.5	20.5	22.2	24.3	14.7	19.5	16.3	9.3	13.0
29	23.0	15.3	19.2	23.1	18.9	21.2	23.5	15.0	19.4	17.0	10.4	13.9
30	24.2	16.5	20.4	24.6	18.3	21.1	23.6	15.1	19.5	18.7	11.6	15.3
31	---	---	---	24.5	18.0	21.2	20.3	16.1	18.1	---	---	---
MONTH	24.2	4.9	13.1	---	---	---	---	---	---	25.4	9.3	17.2

ELKHEAD RESERVOIR NEAR CRAIG, CO

WATER-QUALITY RECORDS

REMARKS.--Samples and field measurements were collected at a number of sites within the reservoir.

403507107214900 ELKHEAD RESERVOIR SITE 1A

LOCATION.--Lat 40°35'07", long 107°21'49", in NE¼NW¼, sec.10, T.7 N., R.89 W., Routt County, Hydrologic Unit 14050001, approximately 80 ft from northwest shore in transect approximately 3.2 mi upstream from Elkhead Dam.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
15...	1334	--	--	--	--	42.0	--
15...	1335	0.0	341	8.2	12.5	--	7.9
15...	1336	1.0	345	8.2	11.0	--	8.2
15...	1337	2.0	344	8.2	10.5	--	8.2
15...	1338	3.0	347	8.2	10.5	--	8.5
15...	1339	4.0	383	8.5	9.0	--	9.5
15...	1340	4.5	394	8.6	8.0	--	10.2
APR							
22...	1355	--	--	--	--	<6.0	--
22...	1356	0.0	433	8.4	10.5	--	9.7
22...	1357	2.0	408	8.3	9.5	--	9.9
22...	1358	4.0	362	8.2	7.0	--	10.0
22...	1359	6.0	355	8.1	6.5	--	10.1
22...	1400	7.0	353	8.1	6.5	--	10.2
AUG							
04...	1229	--	--	--	--	66.0	--
04...	1230	0.0	358	8.2	21.0	--	6.0
04...	1231	1.0	359	8.2	21.0	--	6.0
04...	1232	2.0	359	8.2	21.0	--	6.0
04...	1233	3.0	367	8.2	21.0	--	5.9
04...	1234	4.0	372	8.2	20.5	--	5.9
04...	1235	5.0	373	8.2	20.5	--	5.9
04...	1236	6.0	376	8.2	20.5	--	6.0
04...	1237	7.0	395	8.2	20.5	--	5.9
04...	1238	7.5	386	8.2	20.5	--	5.7

403506107214500 ELKHEAD RESERVOIR SITE 1B

LOCATION.--Lat 40°35'06", long 107°21'45", in NE¼NW¼, sec.10, T.7 N., R.89 W., Routt County, Hydrologic Unit 14050001, approximately 200 ft from southeast shore in transect approximately 3.2 mi upstream from Elkhead Dam.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
15...	1259	--	--	--	--	54.0	--
15...	1300	0.0	344	8.1	12.0	--	7.4
15...	1301	2.0	344	8.1	12.0	--	7.2
15...	1302	4.0	357	8.1	10.0	--	7.4
15...	1303	6.0	416	8.3	9.0	--	8.1
15...	1304	8.0	428	8.3	8.5	--	8.3
15...	1305	10.0	440	8.3	8.5	--	8.4
15...	1306	12.0	441	8.3	8.0	--	8.4
15...	1307	14.0	442	8.4	8.0	--	8.5
15...	1308	14.5	443	8.4	8.0	--	8.4
APR							
22...	1247	--	--	--	--	6.0	--
22...	1248	0.0	431	8.2	9.0	--	9.1
22...	1249	2.0	400	8.2	8.0	--	8.4
22...	1250	4.0	391	8.2	7.5	--	9.2
22...	1251	6.0	361	8.1	6.5	--	9.4

ELKHEAD RESERVOIR NEAR CRAIG, CO--Continued

WATER-QUALITY RECORDS

403506107214500 ELKHEAD RESERVOIR SITE 1B--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
AUG							
04...	1239	--	--	--	--	66.0	--
04...	1240	0.0	360	8.2	21.0	--	5.6
04...	1241	1.0	361	8.2	21.0	--	5.8
04...	1242	2.0	362	8.2	21.0	--	5.8
04...	1243	3.0	364	8.2	21.0	--	5.9
04...	1244	4.0	366	8.2	21.0	--	5.5
04...	1245	5.0	371	8.2	21.0	--	5.7
04...	1246	6.0	376	8.2	20.5	--	5.7
04...	1247	7.0	379	8.2	20.5	--	6.0
04...	1248	8.0	439	8.3	20.5	--	5.8

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	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 DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
OCT												
15...	1320	2.0	0.003	0.028	0.024	0.4	0.3	0.028	0.008	0.003	0.6	<0.1
15...	1330	12.0	0.003	0.022	0.013	0.3	0.3	0.043	0.008	0.002	0.8	<0.1
APR												
22...	1305	1.0	0.002	0.154	0.002	0.6	0.4	0.056	0.026	0.018	2.9	<0.1
22...	1320	4.0	0.002	0.151	0.002	0.7	0.3	0.198	0.022	0.014	1.4	<0.1
AUG												
04...	1250	1.0	<0.001	<0.005	0.003	0.3	0.3	0.070	0.014	<0.001	0.7	<0.1
04...	1300	6.0	<0.001	<0.005	0.002	0.3	0.3	0.018	0.003	<0.001	0.6	<0.1

403439107223800 ELKHEAD RESERVOIR SITE 2A

LOCATION.--Lat 40°34'39", long 107°22'38", in NE¼SE¼, sec.9, T.7 N., R.89 W., Moffat County, Hydrologic Unit 14050001, approximately 60 ft from northwest shore in transect approximately 1.5 mi upstream from Elkhead Dam.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
15...	1139	--	--	--	--	42.0	--
15...	1140	0.0	312	7.8	11.0	--	6.4
15...	1141	3.0	312	7.8	10.5	--	6.4
15...	1142	6.0	310	7.8	10.5	--	6.4
15...	1143	9.0	311	7.8	10.5	--	6.3
15...	1144	12.0	313	7.8	10.5	--	6.3
15...	1145	15.0	316	7.8	10.5	--	6.3
15...	1146	18.0	326	7.8	10.5	--	6.4
15...	1147	20.0	331	7.9	10.5	--	6.5
APR							
22...	1117	--	--	--	--	12.0	--
22...	1118	0.0	448	8.1	8.0	--	10.2
22...	1119	3.0	451	8.1	7.5	--	10.4
22...	1120	6.0	451	8.1	7.0	--	10.4
22...	1121	9.0	452	8.1	7.0	--	10.7
22...	1122	12.0	452	8.1	7.0	--	10.8
22...	1123	15.0	453	8.1	6.5	--	10.9
22...	1124	18.0	456	8.0	5.0	--	10.5
22...	1125	19.0	465	8.0	5.5	--	10.2

ELKHEAD RESERVOIR NEAR CRAIG, CO--Continued

WATER-QUALITY RECORDS

403439107223800 ELKHEAD RESERVOIR SITE 2A--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
AUG							
04...	1054	--	--	--	--	72.0	--
04...	1055	0.0	308	8.1	21.0	--	5.5
04...	1056	3.0	309	8.1	20.5	--	6.2
04...	1057	6.0	308	8.1	20.5	--	6.0
04...	1058	9.0	307	8.1	20.5	--	6.0
04...	1059	12.0	305	8.1	20.5	--	6.0
04...	1100	15.0	297	7.8	20.0	--	5.9
04...	1101	18.0	273	7.4	17.0	--	2.7
04...	1102	21.0	262	7.3	15.0	--	2.4
04...	1103	23.0	259	7.2	13.0	--	0.9

403437107223300 ELKHEAD RESERVOIR SITE 2B

LOCATION.--Lat 40°34'37", long 107°22'33", in NE¼SE¼, sec.9, T.7 N., R.89 W., Moffat County, Hydrologic Unit 14050001, at approximate center of transect approximately 1.5 mi upstream from Elkhead Dam.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
15...	1204	--	--	--	--	42.0	--
15...	1205	0.0	313	7.9	11.0	--	6.5
15...	1206	3.0	314	7.9	11.0	--	6.5
15...	1207	6.0	315	7.9	10.5	--	6.5
15...	1208	9.0	313	7.9	10.5	--	6.4
15...	1209	12.0	314	7.8	10.5	--	6.3
15...	1210	15.0	316	7.8	10.5	--	6.3
15...	1211	18.0	317	7.9	10.5	--	6.3
15...	1212	21.0	319	7.9	10.5	--	6.4
15...	1213	24.0	320	7.9	10.5	--	6.4
15...	1214	27.0	334	7.9	10.5	--	6.6
15...	1215	30.0	340	8.0	10.0	--	6.7
15...	1216	33.0	372	8.1	9.5	--	6.9
15...	1217	36.0	386	8.1	9.0	--	7.1
15...	1218	39.0	387	8.1	9.0	--	7.1
15...	1219	42.0	387	8.1	9.0	--	7.1
15...	1221	43.0	387	8.1	9.0	--	7.1
APR							
22...	1149	--	--	--	--	12.0	--
22...	1150	0.0	443	8.0	8.0	--	9.3
22...	1151	3.0	446	8.1	6.5	--	10.0
22...	1152	6.0	449	8.1	6.0	--	10.0
22...	1153	9.0	446	8.0	6.0	--	9.5
22...	1154	12.0	442	8.0	5.5	--	9.6
22...	1155	15.0	440	8.0	5.5	--	9.7
22...	1156	18.0	443	8.0	5.0	--	9.7
22...	1157	21.0	447	8.0	5.0	--	9.6
22...	1158	24.0	451	8.0	5.0	--	9.6
22...	1159	27.0	455	8.0	5.0	--	9.5
22...	1201	30.0	461	8.0	5.0	--	9.5
22...	1202	33.0	463	8.0	5.0	--	9.4
22...	1203	35.0	464	8.0	5.0	--	9.3

ELKHEAD RESERVOIR NEAR CRAIG, CO--Continued

WATER-QUALITY RECORDS

403437107223300 ELKHEAD RESERVOIR SITE 2B--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
AUG							
04...	1136	--	--	--	--	66.0	--
04...	1137	0.0	317	8.1	21.0	--	5.5
04...	1138	3.0	317	8.1	21.0	--	5.9
04...	1139	6.0	312	8.1	20.5	--	6.1
04...	1140	9.0	311	8.1	20.5	--	6.0
04...	1141	12.0	310	8.1	20.5	--	5.9
04...	1142	15.0	291	7.9	19.5	--	4.5
04...	1143	18.0	275	7.3	16.0	--	0.7
04...	1144	21.0	266	7.2	15.5	--	0.5
04...	1145	24.0	263	7.2	13.5	--	0.4
04...	1146	27.0	255	7.2	12.0	--	0.6
04...	1147	30.0	248	7.2	11.5	--	1.2
04...	1148	33.0	248	7.1	10.0	--	1.9
04...	1149	36.0	249	7.1	10.0	--	1.7
04...	1151	39.0	249	7.1	10.0	--	1.6
04...	1152	42.0	250	7.1	10.0	--	1.5
04...	1153	45.0	250	7.1	10.0	--	1.5

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	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 DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
OCT												
15...	1220	6.0	0.004	0.050	0.012	0.4	0.3	0.035	0.008	0.003	1.7	<0.1
15...	1230	39.0	0.003	0.046	0.015	0.3	0.3	0.038	0.008	0.003	0.6	<0.1
APR												
22...	1200	3.0	0.002	0.226	0.002	0.4	0.4	0.083	0.033	0.026	1.2	<0.1
22...	1220	30.0	0.002	0.231	0.005	0.6	0.4	0.093	0.031	0.022	0.3	<0.1
AUG												
04...	1150	6.0	<0.001	<0.005	<0.002	0.3	0.2	0.017	0.004	<0.001	1.0	<0.1
04...	1210	42.0	0.002	0.160	0.008	0.4	0.3	0.067	0.013	0.009	0.4	<0.1

403435107222900 ELKHEAD RESERVOIR SITE 2C

LOCATION.--Lat 40°34'35", long 107°22'29", in NE¼SE¼, sec.9, T.7 N., R.89 W., Moffat County, Hydrologic Unit 14050001, approximately 30 ft from southeast shore in transect approximately 1.5 mi upstream from Elkhead Dam.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
15...	1149	--	--	--	--	42.0	--
15...	1150	0.0	316	7.9	11.0	--	6.6
15...	1151	3.0	316	7.9	10.5	--	6.6
15...	1152	6.0	316	7.9	10.5	--	6.6
15...	1153	9.0	316	7.9	10.5	--	6.5
15...	1154	12.0	316	7.9	10.5	--	6.4
15...	1155	15.0	317	7.9	10.5	--	6.4
15...	1156	18.0	318	7.9	10.5	--	6.4
15...	1157	21.0	318	7.9	10.5	--	6.5
15...	1158	24.0	319	7.9	10.5	--	6.5
15...	1159	27.0	331	7.9	10.0	--	6.6
15...	1200	30.0	349	8.0	10.0	--	6.8
15...	1201	33.0	362	8.1	9.5	--	6.9
15...	1202	36.0	383	8.1	9.0	--	7.1
15...	1203	39.0	386	8.1	9.0	--	7.2
15...	1204	41.0	387	8.1	9.0	--	7.1

ELKHEAD RESERVOIR NEAR CRAIG, CO--Continued

WATER-QUALITY RECORDS

403435107222900 ELKHEAD RESERVOIR SITE 2C--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
APR							
22...	1136	--	--	--	--	12.0	--
22...	1137	0.0	440	8.0	6.0	--	9.7
22...	1138	3.0	439	8.0	5.5	--	9.9
22...	1139	6.0	438	8.0	5.5	--	9.7
22...	1140	9.0	438	8.0	5.5	--	9.6
22...	1141	12.0	438	8.0	5.5	--	9.6
22...	1142	15.0	438	7.9	5.0	--	9.5
22...	1143	18.0	442	7.9	5.0	--	9.4
22...	1144	21.0	445	7.9	5.0	--	9.3
22...	1145	24.0	450	7.9	5.0	--	9.4
22...	1146	26.0	454	7.9	5.0	--	9.4
AUG							
04...	1119	--	--	--	--	72.0	--
04...	1120	0.0	312	8.1	21.0	--	5.6
04...	1121	3.0	312	8.1	20.5	--	5.9
04...	1122	6.0	312	8.1	20.5	--	5.9
04...	1123	9.0	312	8.1	20.5	--	5.8
04...	1124	12.0	310	8.1	20.5	--	5.8
04...	1125	15.0	292	7.9	20.0	--	5.5
04...	1126	18.0	273	7.3	16.0	--	0.8
04...	1127	21.0	266	7.2	14.0	--	0.5
04...	1128	24.0	261	7.2	13.5	--	0.5
04...	1129	27.0	250	7.2	12.5	--	1.6
04...	1130	30.0	248	7.2	11.0	--	2.3
04...	1131	33.0	250	7.1	10.5	--	2.2
04...	1132	36.0	249	7.1	10.0	--	1.8
04...	1133	39.0	250	7.1	10.0	--	1.6
04...	1134	42.0	249	7.1	10.0	--	1.6
04...	1135	44.0	251	7.1	10.0	--	1.5

403336107230700 ELKHEAD RESERVOIR SITE 3A

LOCATION.--Lat 40°33'36", long 107°23'07", in SE¼SW¼, sec.16, T.7 N., R.89 W., Moffat County, Hydrologic Unit 14050001, approximately 60 ft from northwest shore in transect approximately 800 ft upstream from Elkhead Dam.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
15...	0919	--	--	--	--	42.0	--
15...	0920	0.0	290	7.8	10.5	--	6.1
15...	0921	3.0	290	7.7	10.5	--	6.1
15...	0922	6.0	290	7.7	10.5	--	6.7
15...	0923	9.0	290	7.7	10.5	--	5.9
15...	0924	12.0	288	7.7	10.5	--	6.3
15...	0925	15.0	289	7.7	10.5	--	5.8
15...	0926	18.0	290	7.7	10.5	--	5.7
15...	0927	21.0	291	7.7	10.5	--	5.6
15...	0928	24.0	290	7.7	10.5	--	5.6
15...	0929	27.0	290	7.7	10.5	--	5.5
15...	0930	30.0	290	7.7	10.5	--	5.4
15...	0931	33.0	290	7.6	10.5	--	5.3
15...	0932	36.0	285	7.6	10.5	--	5.1
15...	0933	37.0	285	7.6	10.5	--	5.1

ELKHEAD RESERVOIR NEAR CRAIG, CO--Continued

WATER-QUALITY RECORDS

403336107230700 ELKHEAD RESERVOIR SITE 3A--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
APR							
22...	0937	--	--	--	--	9.0	--
22...	0938	0.0	424	8.0	6.5	--	8.5
22...	0939	3.0	424	8.0	6.5	--	8.7
22...	0940	6.0	424	8.0	6.0	--	8.7
22...	0941	9.0	424	8.0	6.0	--	8.7
22...	0942	12.0	424	8.0	6.0	--	8.6
22...	0943	15.0	424	8.0	6.0	--	8.6
AUG							
04...	0859	--	--	--	--	66.0	--
04...	0900	0.0	293	8.0	21.0	--	6.3
04...	0901	3.0	293	8.0	21.0	--	6.4
04...	0902	6.0	293	8.0	21.0	--	6.4
04...	0903	9.0	294	8.0	20.5	--	6.3
04...	0904	12.0	295	8.0	20.5	--	6.3
04...	0905	15.0	283	7.9	20.0	--	5.7
04...	0906	18.0	243	7.6	14.0	--	4.7
04...	0907	19.0	244	7.4	13.0	--	4.4

403333107230100 ELKHEAD RESERVOIR SITE 3B

LOCATION.--Lat 40°33'33", long 107°23'01", in SE¼SW¼, sec.16, T.7 N., R.89 W., Moffat County, Hydrologic Unit 14050001, at approximate center of transect approximately 800 ft upstream from Elkhead Dam.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
15...	0949	--	--	--	--	42.0	--
15...	0950	0.0	290	7.8	10.5	--	6.9
15...	0951	3.0	290	7.8	10.5	--	6.6
15...	0952	6.0	290	7.8	10.5	--	6.4
15...	0953	9.0	290	7.8	10.5	--	6.3
15...	0954	12.0	289	7.7	10.5	--	6.1
15...	0955	15.0	288	7.7	10.5	--	6.1
15...	0956	18.0	289	7.7	10.5	--	6.1
15...	0957	21.0	290	7.7	10.5	--	6.1
15...	0958	24.0	291	7.7	10.5	--	6.0
15...	0959	27.0	290	7.7	10.5	--	5.9
15...	1000	30.0	291	7.7	10.5	--	5.9
15...	1001	33.0	291	7.7	10.5	--	5.9
15...	1002	36.0	291	7.7	10.5	--	5.9
15...	1003	39.0	291	7.7	10.5	--	5.9
15...	1004	42.0	290	7.7	10.5	--	5.7
15...	1005	45.0	288	7.5	10.0	--	3.8
15...	1006	48.0	254	7.3	9.0	--	1.9
15...	1007	51.0	215	7.2	9.0	--	0.8
15...	1008	54.0	205	7.1	8.5	--	0.6
15...	1009	57.0	202	7.0	8.0	--	0.4
15...	1010	60.0	202	7.0	8.0	--	0.3
15...	1011	63.0	202	7.0	8.0	--	0.3
15...	1012	64.0	202	7.0	8.0	--	0.2

ELKHEAD RESERVOIR NEAR CRAIG, CO--Continued

WATER-QUALITY RECORDS

403333107230100 ELKHEAD RESERVOIR SITE 3B--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
APR							
22...	0948	--	--	--	--	12.0	--
22...	0949	0.0	424	8.0	6.5	--	8.4
22...	0950	3.0	424	8.0	6.5	--	8.5
22...	0951	6.0	424	8.0	6.5	--	8.6
22...	0952	9.0	424	8.0	6.0	--	8.6
22...	0953	12.0	424	8.0	6.0	--	8.6
22...	0954	15.0	424	7.9	6.0	--	8.6
22...	0955	18.0	424	7.9	6.0	--	8.6
22...	0956	21.0	425	7.9	6.0	--	8.6
22...	0957	24.0	425	7.9	5.5	--	8.6
22...	0958	27.0	446	7.9	4.5	--	8.4
22...	0959	30.0	454	7.8	4.0	--	8.4
22...	1000	33.0	459	7.8	4.0	--	8.4
22...	1001	36.0	472	7.8	4.0	--	8.2
22...	1002	39.0	491	7.8	3.5	--	8.0
22...	1003	42.0	513	7.7	3.5	--	7.7
22...	1004	45.0	591	7.6	2.5	--	6.7
22...	1005	48.0	604	7.5	2.5	--	6.1
22...	1006	51.0	605	7.5	2.5	--	5.8
22...	1007	54.0	608	7.5	2.5	--	5.6
22...	1008	57.0	610	7.5	2.5	--	5.5
22...	1009	60.0	611	7.5	2.5	--	5.4
22...	1011	61.0	612	7.5	2.5	--	5.3
AUG							
04...	0931	--	--	--	--	78.0	--
04...	0932	0.0	293	8.2	21.0	--	6.7
04...	0933	3.0	293	8.2	21.0	--	6.9
04...	0934	6.0	294	8.1	21.0	--	6.8
04...	0935	9.0	294	8.1	21.0	--	6.9
04...	0936	12.0	296	8.1	20.5	--	6.9
04...	0937	15.0	273	7.8	18.5	--	5.7
04...	0938	18.0	246	7.6	14.5	--	5.1
04...	0939	21.0	244	7.4	12.5	--	6.9
04...	0940	24.0	241	7.4	12.0	--	7.2
04...	0941	27.0	242	7.4	11.5	--	6.6
04...	0942	30.0	239	7.4	11.0	--	5.4
04...	0943	33.0	239	7.4	10.5	--	5.6
04...	0944	36.0	238	7.4	10.0	--	5.8
04...	0945	39.0	236	7.4	10.0	--	5.5
04...	0946	42.0	234	7.4	9.5	--	5.5
04...	0947	45.0	234	7.4	9.5	--	5.2
04...	0948	48.0	231	7.3	9.0	--	4.9
04...	0949	51.0	232	7.3	9.0	--	4.7
04...	0951	54.0	233	7.3	9.0	--	4.3
04...	0952	55.0	234	7.2	9.0	--	3.4

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	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 DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
OCT												
15...	1015	6.0	0.002	0.067	0.002	0.3	0.3	0.036	0.008	0.003	0.9	<0.1
15...	1020	60.0	0.001	0.131	0.005	0.6	0.3	0.063	0.013	0.006	0.3	<0.1
APR												
22...	1010	3.0	0.002	0.247	0.007	0.6	0.4	0.098	0.036	0.026	1.1	<0.1
22...	1025	57.0	0.001	0.249	0.065	0.4	0.4	0.039	0.016	0.012	<0.1	<0.1
AUG												
04...	0950	6.0	0.001	<0.005	<0.002	0.4	0.3	0.019	0.004	<0.001	0.7	<0.1
04...	1000	51.0	<0.001	0.211	<0.002	0.3	0.2	0.061	0.002	0.009	<0.1	<0.1

ELKHEAD RESERVOIR NEAR CRAIG, CO--Continued

WATER-QUALITY RECORDS

403331107225500 ELKHEAD RESERVOIR SITE 3C

LOCATION.--Lat 40°33'31", long 107°22'55", in SE¼SW¼, sec.16, T.7 N., R.89 W., Moffat County, Hydrologic Unit 14050001, approximately 40 ft from southeast shore in transect approximately 800 ft upstream from Elkhead Dam.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
15...	0854	--	--	--	--	42.0	--
15...	0855	0.0	290	7.8	10.5	--	6.2
15...	0856	3.0	290	7.7	10.5	--	6.2
15...	0857	6.0	290	7.7	10.5	--	6.2
15...	0858	9.0	290	7.7	10.5	--	6.1
15...	0859	12.0	290	7.7	10.5	--	5.9
15...	0900	15.0	290	7.7	10.5	--	5.8
15...	0901	18.0	290	7.7	10.5	--	5.8
15...	0902	21.0	290	7.7	10.5	--	5.8
15...	0903	24.0	290	7.7	10.5	--	5.7
15...	0904	27.0	290	7.7	10.5	--	5.7
15...	0905	30.0	289	7.7	10.5	--	5.7
15...	0906	33.0	283	7.6	10.5	--	5.2
15...	0907	36.0	302	7.6	10.5	--	5.3
15...	0908	39.0	283	7.5	10.0	--	3.8
15...	0909	42.0	268	7.4	10.0	--	3.5
15...	0910	45.0	236	7.2	9.0	--	1.9
15...	0911	48.0	220	7.1	9.0	--	0.9
15...	0912	51.0	210	7.1	8.5	--	0.6
15...	0913	54.0	205	7.0	8.5	--	0.4
15...	0914	56.0	203	7.0	8.5	--	0.4
APR							
22...	0914	--	--	--	--	9.0	--
22...	0915	0.0	424	7.9	7.0	--	8.4
22...	0916	3.0	424	8.0	7.0	--	9.1
22...	0917	6.0	424	8.0	7.0	--	9.0
22...	0918	9.0	424	8.0	7.0	--	8.8
22...	0919	12.0	426	7.9	6.0	--	8.7
22...	0920	15.0	425	7.9	5.5	--	8.8
22...	0921	18.0	431	7.9	4.5	--	8.7
22...	0922	21.0	445	7.8	4.5	--	8.8
22...	0923	24.0	468	7.8	4.0	--	8.5
22...	0924	27.0	475	7.8	4.0	--	8.1
22...	0925	30.0	489	7.7	3.5	--	8.1
22...	0926	33.0	511	7.7	3.5	--	7.9
22...	0927	36.0	537	7.6	3.0	--	7.5
22...	0928	39.0	584	7.6	2.5	--	6.2
22...	0929	42.0	604	7.5	2.5	--	6.1
22...	0930	45.0	612	7.5	2.5	--	5.8
22...	0931	48.0	615	7.5	2.5	--	5.5
22...	0932	49.0	617	7.5	2.5	--	5.2
AUG							
04...	0914	--	--	--	--	84.0	--
04...	0915	0.0	293	8.1	21.0	--	6.3
04...	0916	3.0	293	8.1	21.0	--	6.4
04...	0917	6.0	293	8.1	21.0	--	6.4
04...	0918	9.0	293	8.1	21.0	--	6.4
04...	0919	12.0	295	8.1	20.5	--	6.4
04...	0920	15.0	264	7.7	17.5	--	4.1
04...	0921	18.0	244	7.5	15.0	--	3.7
04...	0922	21.0	244	7.4	13.5	--	3.8
04...	0923	24.0	243	7.4	12.5	--	3.9
04...	0924	27.0	243	7.4	11.5	--	4.2
04...	0925	30.0	240	7.4	11.0	--	4.6
04...	0926	33.0	238	7.4	10.5	--	4.9
04...	0927	36.0	237	7.4	10.0	--	5.0
04...	0928	39.0	237	7.4	10.0	--	5.0
04...	0929	42.0	236	7.3	9.5	--	4.8
04...	0930	43.0	236	7.3	9.5	--	4.5

09246400 ELKHEAD CREEK BELOW MAYNARD GULCH, NEAR CRAIG, CO

LOCATION.--Lat 40°32'31", long 107°23'50", in SW¼SE¼ 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 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	44	29	e29	e31	34	202	1550	368	87	29	2.6
2	17	42	34	e29	e31	32	250	1420	339	80	21	2.6
3	25	36	34	e30	e32	32	275	1490	317	74	19	2.5
4	35	36	31	e29	e32	36	364	1870	312	71	17	2.2
5	34	36	30	e27	e31	37	401	1690	382	64	15	2.4
6	29	34	31	e27	e31	36	334	1300	314	59	14	2.9
7	26	33	32	e27	e30	34	287	1130	263	54	12	2.9
8	32	32	33	e28	e30	37	259	1220	232	54	11	2.4
9	43	35	e31	e30	e29	34	246	1010	230	49	10	2.0
10	45	36	e29	e31	e30	31	259	1080	270	51	8.2	2.1
11	47	39	e28	e31	e29	32	386	1440	260	49	9.3	2.2
12	55	38	e28	e29	e30	32	681	1060	216	47	7.9	3.1
13	52	37	e29	e28	e30	32	498	1000	191	41	7.3	3.3
14	47	34	e30	e28	e30	34	416	912	190	43	6.9	3.0
15	44	24	e31	e28	e30	37	363	768	199	31	6.7	3.0
16	47	19	e30	e29	e31	42	333	661	193	28	6.1	2.9
17	49	21	e30	e29	e32	50	333	728	368	25	5.9	3.0
18	47	26	e31	e28	e33	79	320	833	520	24	4.8	2.8
19	43	28	e32	e27	e33	92	298	865	535	22	4.2	2.5
20	40	35	e30	e27	e32	90	274	826	437	19	3.8	2.6
21	38	33	e30	e30	e32	75	316	866	336	18	4.1	3.8
22	36	34	e29	e33	e32	79	416	852	275	16	4.7	3.4
23	35	30	e29	e34	33	101	596	646	234	17	4.9	4.0
24	47	31	e29	e32	38	210	870	545	200	19	6.2	3.6
25	46	34	e28	e32	40	594	881	552	178	19	5.9	2.9
26	38	34	e28	e31	35	1070	834	506	153	20	5.0	2.8
27	36	35	e26	e31	34	693	871	481	133	23	5.1	2.7
28	38	34	e27	e30	34	608	1060	487	119	21	4.6	2.5
29	41	34	e29	e31	---	412	1150	478	106	23	3.8	2.6
30	42	32	e29	e31	---	287	1330	449	96	33	3.9	2.7
31	45	---	e28	e32	---	234	---	412	---	38	3.0	---
TOTAL	1218	996	925	918	895	5226	15103	29127	7966	1219	270.3	84.0
MEAN	39.3	33.2	29.8	29.6	32.0	169	503	940	266	39.3	8.72	2.80
MAX	55	44	34	34	40	1070	1330	1870	535	87	29	4.0
MIN	17	19	26	27	29	31	202	412	96	16	3.0	2.0
AC-FT	2420	1980	1830	1820	1780	10370	29960	57770	15800	2420	536	167

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1998, BY WATER YEAR (WY)

MEAN	15.8	20.3	20.4	21.6	23.0	113	460	975	249	23.1	8.31	9.90
MAX	39.3	33.2	29.8	29.6	32.0	169	503	1224	362	39.3	13.6	32.0
(WY)	1998	1998	1998	1998	1998	1998	1998	1997	1997	1998	1997	1997
MIN	2.56	13.8	14.2	14.9	17.4	53.6	428	763	120	8.11	2.59	2.19
(WY)	1997	1997	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1995 - 1998	
ANNUAL TOTAL	72229.9		63947.3			
ANNUAL MEAN	198		175		163	
HIGHEST ANNUAL MEAN					192	1997
LOWEST ANNUAL MEAN					121	1996
HIGHEST DAILY MEAN	1840	May 8	1870	May 4	1870	May 4 1998
LOWEST DAILY MEAN	e3.8	Sep 9	2.0	Sep 9	1.4	Sep 2 1996
ANNUAL SEVEN-DAY MINIMUM	4.8	Sep 5	2.4	Sep 4	1.5	Aug 29 1996
INSTANTANEOUS PEAK FLOW			2370	May 4	2430	May 8 1997
INSTANTANEOUS PEAK STAGE			6.61	May 4	a6.83	May 8 1997
ANNUAL RUNOFF (AC-FT)	143300		126800		117800	
10 PERCENT EXCEEDS	735		569		506	
50 PERCENT EXCEEDS	31		34		21	
90 PERCENT EXCEEDS	11		4.4		2.8	

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 current year.
WATER TEMPERTURE: August 1995 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Published daily specific-conductance records are fair except for the period Feb. 26 to Mar. 23, Apr. 11 to May 13, and July 18 to Sep. 30, which are poor. Published daily water-temperature records are fair. Periods of missing or deleted record are due to instrument malfunction or sensor fouling except for the period Nov. 13 to Feb. 25, when the monitor was removed for winter period.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 588 microsiemens, Apr. 11, 1998: minimum recorded, 126 microsiemens, 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 recorded, 588 microsiemens, Apr. 11: minimum recorded, 164 microsiemens, May 26-28.
WATER TEMPERATURE: Maximum recorded, 27.3°C, July. 19, 20: minimum recorded, 0.6°C, Mar. 21.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (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)
OCT												
10...	1130	46	321	8.2	11.0	11	9.6	--	--	130	31	12
NOV												
06...	1245	33	339	8.2	7.2	6.4	10.1	--	--	130	31	13
DEC												
23...	1600	30	430	8.2	0.0	3.6	11.2	--	--	170	41	17
JAN												
08...	1430	e28	405	8.2	0.0	3.6	11.2	--	--	150	36	15
FEB												
26...	1400	38	426	8.3	3.9	4.7	9.8	--	--	160	37	15
MAR												
25...	1415	609	490	8.2	4.0	35	11.4	--	--	180	42	19
APR												
22...	1550	431	443	7.9	8.6	32	10.8	--	--	160	39	16
MAY												
14...	0830	1030	187	7.8	8.2	100	10.3	42	--	77	19	6.8
JUN												
24...	1100	195	243	8.4	15.4	22	8.2	--	--	96	24	8.8
JUL												
16...	1100	28	308	8.3	21.2	5.1	7.4	K60	61	120	30	11
AUG												
18...	1645	4.0	385	8.5	24.2	7.9	6.7	--	--	140	33	14
SEP												
04...	0930	2.3	487	8.6	19.3	7.6	7.9	43	K14	170	41	17

e-Estimated.
K-Based on non-ideal colony count.

09246400 ELKHEAD CREEK BELOW MAYNARD GULCH, NEAR CRAIG, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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 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, 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											
10...	18	0.7	1.7	104	53	3.1	0.1	9.8	191	0.26	23.7
NOV											
06...	20	0.8	1.7	111	61	4.0	0.1	8.7	206	0.28	18.2
DEC											
23...	27	0.9	1.9	144	84	5.3	0.2	11	274	0.37	22.2
JAN											
08...	25	0.9	1.8	127	76	4.7	0.2	11	245	0.33	--
FEB											
26...	26	0.9	1.8	127	79	4.4	0.1	9.8	250	0.34	25.6
MAR											
25...	33	1	1.7	145	100	5.1	0.1	11	303	0.41	499
APR											
22...	27	0.9	2.5	110	100	3.6	0.1	9.0	265	0.36	308
MAY											
14...	8.5	0.4	1.3	67	25	1.3	<0.1	8.9	114	0.15	316
JUN											
24...	13	0.6	1.1	80	36	1.8	0.1	11	144	0.20	75.8
JUL											
16...	18	0.7	1.2	106	46	3.1	<0.1	11	184	0.25	13.9
AUG											
18...	26	0.9	1.6	121	67	6.2	0.1	10	231	0.31	2.49
SEP											
04...	34	1	1.7	142	92	9.1	0.2	9.1	290	0.39	1.78

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)	PHOS-PHORUS ORTHO, 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										
10...	<0.01	<0.05	0.03	0.37	0.26	0.02	<0.01	<0.01	--	--
NOV										
06...	0.03	0.09	<0.02	0.26	0.31	<0.01	<0.01	<0.01	--	--
DEC										
23...	<0.01	0.11	<0.02	0.35	0.34	<0.01	<0.01	<0.01	--	--
JAN										
08...	<0.01	0.14	<0.02	0.31	0.26	0.02	<0.01	<0.01	--	--
FEB										
26...	0.01	0.14	0.03	0.28	0.26	<0.01	<0.01	0.01	--	--
MAR										
25...	0.01	0.19	<0.02	0.35	0.21	0.05	0.02	0.01	--	--
APR										
22...	<0.01	0.30	0.03	<0.10	0.28	<0.01	<0.01	0.03	6.8	6.4
MAY										
14...	<0.01	0.36	<0.02	0.57	0.31	0.10	<0.01	0.01	12	7.2
JUN										
24...	<0.01	<0.05	<0.02	0.45	0.24	0.05	<0.01	<0.01	--	--
JUL										
16...	<0.01	<0.05	0.03	0.29	0.26	<0.01	<0.01	<0.01	6.2	6.1
AUG										
18...	0.01	<0.05	0.03	0.42	0.26	0.02	<0.01	0.01	--	--
SEP										
04...	<0.01	0.10	0.02	0.49	0.32	0.02	<0.01	0.01	8.3	6.6

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)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	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)
MAY											
14...	3600	1	<1	<100	29	<10	10	<1	<1	4.7	<1
AUG											
18...	390	<1	1	<100	54	<10	30	<1	<1	<1	<1

09246400 ELKHEAD CREEK BELOW MAYNARD GULCH, NEAR CRAIG, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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)
MAY											
14...	2	8	3	4900	26	3	<1	<10	50	5	<0.1
AUG											
18...	<1	2	2	460	<10	<1	<1	<10	50	14	<0.1

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)	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)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
MAY											
14...	<0.1	<1	7	2	<1	<1	<1	--	180	20	<20
AUG											
18...	<0.1	<1	2	2	<1	<1	<1	<1	370	<10	<20

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT				
10...	1130	46	16	1.9
NOV				
06...	1245	33	15	1.3
DEC				
23...	1600	30	9	0.70
JAN				
08...	1430	e28	13	e1.3
FEB				
26...	1400	38	6	0.57
MAR				
25...	1415	609	171	281
APR				
22...	1550	431	36	41
MAY				
14...	0830	1030	215	597
JUN				
24...	1100	195	35	18
JUL				
16...	1100	28	18	1.3
AUG				
18...	1645	4.0	14	0.15
SEP				
04...	0930	2.3	18	0.11

e-Estimated.

09246400 ELKHEAD CREEK BELOW MAYNARD GULCH, NEAR CRAIG, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	319	311	315	340	333	335	---	---	---	---	---	---
2	322	315	318	338	333	336	---	---	---	---	---	---
3	325	315	320	343	337	339	---	---	---	---	---	---
4	322	318	320	346	340	343	---	---	---	---	---	---
5	324	317	321	342	338	340	---	---	---	---	---	---
6	328	321	324	344	339	342	---	---	---	---	---	---
7	331	326	328	346	342	344	---	---	---	---	---	---
8	326	315	320	348	342	345	---	---	---	---	---	---
9	323	317	320	348	342	345	---	---	---	---	---	---
10	319	313	316	355	343	351	---	---	---	---	---	---
11	317	306	313	352	346	348	---	---	---	---	---	---
12	307	301	304	352	348	350	---	---	---	---	---	---
13	302	297	300	---	---	---	---	---	---	---	---	---
14	303	297	300	---	---	---	---	---	---	---	---	---
15	307	302	304	---	---	---	---	---	---	---	---	---
16	304	301	303	---	---	---	---	---	---	---	---	---
17	303	300	302	---	---	---	---	---	---	---	---	---
18	305	301	303	---	---	---	---	---	---	---	---	---
19	305	303	304	---	---	---	---	---	---	---	---	---
20	308	304	306	---	---	---	---	---	---	---	---	---
21	310	306	308	---	---	---	---	---	---	---	---	---
22	311	308	310	---	---	---	---	---	---	---	---	---
23	313	309	312	---	---	---	---	---	---	---	---	---
24	317	305	310	---	---	---	---	---	---	---	---	---
25	321	317	319	---	---	---	---	---	---	---	---	---
26	325	319	322	---	---	---	---	---	---	---	---	---
27	328	322	325	---	---	---	---	---	---	---	---	---
28	328	324	326	---	---	---	---	---	---	---	---	---
29	328	326	327	---	---	---	---	---	---	---	---	---
30	332	328	330	---	---	---	---	---	---	---	---	---
31	334	330	332	---	---	---	---	---	---	---	---	---
MONTH	334	297	315	---	---	---	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	423	413	418	---	---	---	308	293	302
2	---	---	---	425	420	423	---	---	---	297	282	290
3	---	---	---	428	423	425	---	---	---	282	259	271
4	---	---	---	429	419	425	---	---	---	259	239	247
5	---	---	---	436	426	430	---	---	---	254	229	240
6	---	---	---	433	427	431	---	---	---	236	209	216
7	---	---	---	431	424	427	---	---	---	213	194	205
8	---	---	---	447	416	434	---	---	---	197	192	194
9	---	---	---	434	422	431	---	---	---	200	193	195
10	---	---	---	446	433	437	---	---	---	203	188	195
11	---	---	---	445	434	437	588	470	507	203	191	193
12	---	---	---	443	426	438	515	447	469	195	191	192
13	---	---	---	449	439	444	478	449	456	201	188	193
14	---	---	---	453	443	447	465	447	457	---	---	---
15	---	---	---	455	446	451	450	433	442	---	---	---
16	---	---	---	460	453	456	438	428	433	---	---	---
17	---	---	---	461	454	458	450	432	440	---	---	---
18	---	---	---	459	445	452	444	423	434	---	---	---
19	---	---	---	464	458	461	437	430	434	191	186	188
20	---	---	---	466	459	462	440	420	431	188	185	187
21	---	---	---	469	460	464	434	414	430	188	186	187
22	---	---	---	472	465	468	440	428	435	187	177	183
23	---	---	---	479	471	476	449	430	439	181	171	176
24	---	---	---	---	---	---	461	432	442	174	168	171
25	---	---	---	---	---	---	441	416	428	170	165	168
26	421	419	421	---	---	---	417	400	409	167	164	165
27	422	417	419	---	---	---	400	375	386	166	164	165
28	427	408	418	---	---	---	382	356	370	166	164	165
29	---	---	---	---	---	---	357	323	340	167	165	166
30	---	---	---	---	---	---	326	307	316	170	167	169
31	---	---	---	---	---	---	---	---	---	171	169	170
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

09246400 ELKHEAD CREEK BELOW MAYNARD GULCH, NEAR CRAIG, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	172	170	171	266	258	262	---	---	---	456	428	441
2	171	170	171	270	263	267	---	---	---	464	450	456
3	172	170	171	273	266	270	---	---	---	489	449	464
4	173	172	172	275	270	272	331	319	324	511	475	488
5	173	171	172	290	272	276	335	327	332	514	496	503
6	173	171	172	280	274	277	339	335	337	508	490	502
7	177	172	174	284	277	281	349	338	341	514	490	503
8	185	175	182	291	281	284	354	343	348	505	494	501
9	186	183	185	294	285	288	358	347	353	500	486	493
10	187	185	186	290	286	288	364	353	359	505	491	496
11	187	186	186	294	288	291	371	358	365	508	498	503
12	198	186	193	291	281	288	371	360	366	511	488	499
13	202	196	200	296	287	291	379	357	369	533	511	523
14	206	202	204	307	293	298	383	373	378	541	529	533
15	206	203	205	309	303	306	401	376	380	547	523	533
16	210	205	208	---	---	---	387	377	382	550	539	543
17	211	207	208	---	---	---	391	377	383	547	531	539
18	208	207	207	329	322	325	392	385	389	543	523	530
19	216	207	212	334	322	328	408	391	402	528	517	522
20	230	214	224	---	---	---	420	406	413	522	509	515
21	237	228	234	---	---	---	426	419	423	514	498	504
22	241	237	239	---	---	---	440	421	430	503	495	498
23	242	238	240	341	336	339	434	417	430	503	470	486
24	243	240	241	341	331	336	427	408	416	483	477	480
25	244	241	243	346	324	330	408	389	398	490	480	484
26	251	244	246	361	321	328	396	387	392	493	484	488
27	249	246	248	322	316	318	406	394	399	499	488	493
28	251	247	249	321	315	318	413	402	406	517	498	507
29	255	250	253	322	313	318	423	407	413	520	506	515
30	261	254	258	316	304	309	431	409	420	516	505	509
31	---	---	---	304	297	300	441	418	432	---	---	---
MONTH	261	170	208	---	---	---	---	---	---	550	428	502

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.2	11.4	15.0	7.5	5.0	6.0	---	---	---	---	---	---
2	17.4	12.6	15.2	8.0	3.9	5.8	---	---	---	---	---	---
3	17.1	13.0	15.0	8.2	3.6	6.0	---	---	---	---	---	---
4	17.6	11.0	14.2	8.2	5.1	6.7	---	---	---	---	---	---
5	17.4	11.1	14.1	8.5	3.8	6.2	---	---	---	---	---	---
6	17.5	10.7	14.2	8.6	3.9	6.4	---	---	---	---	---	---
7	15.3	11.9	13.8	8.5	4.4	6.6	---	---	---	---	---	---
8	12.9	9.5	11.2	8.1	4.1	6.3	---	---	---	---	---	---
9	15.2	8.8	11.8	7.1	4.6	5.7	---	---	---	---	---	---
10	14.8	9.5	12.0	5.7	3.8	4.8	---	---	---	---	---	---
11	12.8	9.8	11.4	5.8	4.0	4.9	---	---	---	---	---	---
12	10.0	8.1	9.1	6.5	4.1	5.3	---	---	---	---	---	---
13	11.1	7.4	9.1	5.7	4.0	5.0	---	---	---	---	---	---
14	13.4	7.3	10.0	---	2.1	---	---	---	---	---	---	---
15	13.8	7.9	10.6	---	---	---	---	---	---	---	---	---
16	13.6	7.7	10.4	---	---	---	---	---	---	---	---	---
17	13.7	7.5	10.4	---	---	---	---	---	---	---	---	---
18	13.3	7.6	10.3	---	---	---	---	---	---	---	---	---
19	12.8	7.2	9.9	---	---	---	---	---	---	---	---	---
20	12.3	7.3	9.8	---	---	---	---	---	---	---	---	---
21	12.0	6.8	9.5	---	---	---	---	---	---	---	---	---
22	11.3	6.4	9.0	---	---	---	---	---	---	---	---	---
23	9.4	6.2	7.9	---	---	---	---	---	---	---	---	---
24	8.4	5.2	7.0	---	---	---	---	---	---	---	---	---
25	9.6	5.8	7.4	---	---	---	---	---	---	---	---	---
26	9.4	4.1	6.8	---	---	---	---	---	---	---	---	---
27	9.9	4.6	7.3	---	---	---	---	---	---	---	---	---
28	9.7	5.0	7.5	---	---	---	---	---	---	---	---	---
29	10.1	5.6	7.9	---	---	---	---	---	---	---	---	---
30	8.7	6.8	7.7	---	---	---	---	---	---	---	---	---
31	8.5	5.7	7.2	---	---	---	---	---	---	---	---	---
MONTH	18.2	4.1	10.4	---	---	---	---	---	---	---	---	---

09246400 ELKHEAD CREEK BELOW MAYNARD GULCH, NEAR CRAIG, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	3.8	---	---	---	---	---	7.1	5.6	6.3
2	---	---	---	6.0	---	---	---	---	---	8.2	5.7	6.8
3	---	---	---	6.4	---	---	---	---	---	7.4	5.6	6.6
4	---	---	---	5.4	---	---	---	---	---	7.4	5.7	6.7
5	---	---	---	4.9	---	---	---	---	---	6.7	5.6	6.1
6	---	---	---	4.7	---	---	---	---	---	7.3	5.7	6.6
7	---	---	---	3.0	---	---	---	---	---	7.3	6.6	6.8
8	---	---	---	3.1	---	---	---	---	---	8.1	6.6	7.3
9	---	---	---	5.7	---	---	---	---	---	7.9	6.2	7.1
10	---	---	---	4.0	---	---	6.2	---	---	7.7	6.1	6.7
11	---	---	---	6.7	---	---	5.5	2.5	3.7	7.7	6.1	6.9
12	---	---	---	7.1	---	---	4.2	2.6	3.2	8.2	6.9	7.4
13	---	---	---	7.6	1.0	3.7	4.5	3.1	3.6	8.2	6.7	7.2
14	---	---	---	8.1	1.2	4.2	4.7	3.5	4.0	---	7.1	---
15	---	---	---	8.1	1.0	3.9	5.7	3.7	4.5	---	---	---
16	---	---	---	8.2	1.1	4.1	5.9	3.1	4.4	---	---	---
17	---	---	---	7.9	.8	3.7	6.1	3.1	4.4	---	---	---
18	---	---	---	5.6	---	---	6.5	3.8	4.8	9.8	---	---
19	---	---	---	6.2	1.5	3.0	6.1	3.9	4.8	10.3	8.0	8.9
20	---	---	---	7.2	1.1	3.2	7.9	4.2	5.5	10.2	8.6	9.2
21	---	---	---	7.9	.6	3.3	8.8	4.7	6.4	10.2	8.9	9.4
22	---	---	---	4.8	1.7	2.9	8.7	5.7	7.2	11.1	9.2	10.1
23	---	---	---	6.2	2.1	3.5	8.9	4.8	7.2	11.7	9.8	10.6
24	---	---	---	5.8	2.0	3.1	6.7	5.1	5.9	11.9	9.8	10.7
25	---	---	---	---	2.1	---	7.6	6.0	6.7	12.2	10.1	11.1
26	3.9	---	---	---	---	---	8.3	6.3	7.3	11.9	8.7	11.2
27	3.6	---	---	---	---	---	8.7	7.1	7.7	12.0	8.7	10.3
28	2.7	---	---	---	---	---	8.6	6.9	7.7	12.3	9.6	10.8
29	---	---	---	---	---	---	7.9	6.3	7.1	12.7	10.5	11.4
30	---	---	---	---	---	---	7.6	6.0	6.8	13.9	11.1	12.3
31	---	---	---	---	---	---	---	---	---	14.6	11.7	13.1
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.7	11.8	13.8	24.0	16.6	20.1	23.0	18.3	20.9	22.7	16.0	18.6
2	15.5	11.6	13.3	24.3	17.3	20.6	21.8	17.9	20.5	25.3	15.4	19.8
3	15.0	11.4	13.1	24.4	17.2	20.7	22.9	19.2	21.0	25.6	15.9	20.5
4	13.5	12.1	12.8	22.4	17.3	19.9	22.8	19.3	20.7	26.7	16.5	21.2
5	13.9	12.4	13.1	24.7	17.5	21.0	24.6	18.0	21.1	26.2	18.0	21.5
6	14.6	12.1	13.2	24.3	19.2	22.0	25.6	19.5	22.3	26.8	17.7	22.2
7	15.8	11.6	13.4	23.7	19.3	21.9	26.0	19.2	22.5	27.0	18.3	22.6
8	14.8	11.4	13.0	25.2	20.4	22.8	26.2	19.3	22.2	24.9	18.4	21.5
9	14.2	11.9	13.0	24.1	19.8	22.3	25.5	19.5	21.9	23.5	17.0	20.0
10	14.6	12.4	13.3	22.4	19.3	20.6	23.9	19.1	21.6	21.4	16.1	18.6
11	15.7	11.9	13.6	23.4	18.2	21.1	24.7	18.1	21.1	22.1	15.7	18.3
12	16.8	11.3	13.6	23.9	17.2	20.9	24.1	17.3	20.8	22.5	16.9	18.5
13	14.3	11.9	13.3	23.5	17.8	21.2	24.4	17.2	20.9	18.8	14.6	16.6
14	14.4	11.9	12.9	24.3	18.9	21.8	25.7	17.4	21.3	22.6	13.0	17.5
15	15.4	11.5	13.2	25.6	17.1	21.6	25.4	17.9	21.5	23.0	13.9	18.0
16	13.5	12.0	12.6	---	18.5	---	25.3	18.2	21.3	22.3	14.8	18.3
17	12.9	11.7	12.1	27.2	---	---	25.9	18.8	22.0	23.1	14.5	18.5
18	13.1	10.8	12.0	27.0	19.9	23.7	23.6	17.6	20.4	21.1	14.4	17.7
19	13.6	10.0	11.7	27.3	20.5	24.0	24.8	17.1	21.0	21.0	14.0	17.1
20	14.8	10.1	12.4	27.3	20.3	23.9	25.0	17.3	21.4	20.5	13.5	16.4
21	16.0	11.9	13.7	25.4	21.0	23.2	21.3	17.9	19.5	19.3	13.6	16.0
22	17.4	12.7	14.7	25.8	20.1	22.8	23.7	15.8	19.6	19.0	12.4	15.7
23	17.2	12.4	14.6	24.3	21.3	22.6	23.8	16.6	20.4	18.4	13.7	15.8
24	17.4	12.8	14.6	25.1	20.9	22.7	25.3	17.8	21.3	20.0	12.9	16.2
25	18.0	12.8	15.0	24.7	20.9	22.1	24.8	18.0	21.3	18.7	12.3	15.2
26	17.8	13.3	15.2	24.9	19.4	22.1	24.3	18.3	21.4	18.5	10.8	14.3
27	19.4	13.3	15.9	25.2	20.8	22.8	24.1	18.1	21.1	18.5	10.2	14.0
28	21.0	13.7	17.1	23.7	21.3	22.3	25.0	16.3	20.5	19.0	9.6	13.8
29	22.5	16.0	19.1	23.9	19.4	21.5	24.0	16.1	20.2	19.2	10.9	14.6
30	23.6	17.6	20.4	24.8	19.2	22.3	25.0	15.9	20.5	20.8	11.6	15.6
31	---	---	---	24.7	18.5	21.8	22.4	17.0	19.2	---	---	---
MONTH	23.6	10.0	14.0	---	---	---	26.2	15.8	21.0	27.0	9.6	17.8

09247600 YAMPA RIVER BELOW CRAIG, CO

LOCATION.--Lat 40°28'51", long 107°36'49", in SW¼NW¼ 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 mi^2.

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, Colorado Ute Power Plants at Hayden and Craig, transbasin diversions, storage reservoirs, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1050	715	347	e380	e400	e465	1940	6060	6350	3470	951	221
2	1250	683	427	e375	e410	e460	2270	6120	6280	3290	871	244
3	1160	641	406	e385	e415	e475	2330	6720	6420	3070	758	239
4	1390	639	301	e390	e425	e480	2820	7600	6280	2820	676	225
5	1030	647	285	e395	e420	e460	3040	7880	5680	2680	661	216
6	874	599	314	e380	e415	e450	2970	7340	4490	2550	636	193
7	778	592	349	e360	e425	e425	2550	6710	3720	2350	567	203
8	765	587	368	e350	e420	e415	2400	6590	3580	2030	506	176
9	850	608	361	e340	e430	e405	2350	6100	3620	1840	468	155
10	832	604	404	e345	e425	e425	2410	5830	3500	1770	449	138
11	860	582	380	e365	e420	e465	2870	6490	3550	1770	421	129
12	953	550	266	e375	e435	e510	4450	6140	3300	1700	397	179
13	1000	521	e255	e370	e440	e550	3970	5580	3360	1570	387	296
14	887	492	e280	e355	e460	e500	3320	5680	3610	1410	372	315
15	881	349	e365	e360	e480	e450	3100	5470	4140	1290	315	294
16	897	280	e350	e355	e485	e525	2860	4810	3570	1150	312	273
17	920	372	e360	e360	e475	e655	2980	4860	4720	1060	303	254
18	928	453	e370	e350	e460	e815	2770	5500	5080	993	286	247
19	906	472	e375	e355	e455	e800	2650	6190	4520	942	327	231
20	861	474	e370	e345	e465	771	2440	6610	4300	878	388	226
21	841	461	e360	e365	e450	740	2640	7340	4180	790	322	203
22	804	444	e340	e355	e470	805	2940	8170	4300	740	327	236
23	753	409	e385	e370	e500	911	3500	7240	4390	738	327	236
24	801	404	e375	e380	e520	1640	4490	5760	4170	744	293	216
25	810	463	e365	e390	e530	3790	4980	5190	3790	753	260	209
26	678	465	e330	e400	e500	6670	5000	5190	3790	914	263	191
27	704	452	e295	e395	e480	4760	4790	5530	3910	942	245	199
28	733	431	e305	e390	e460	4520	4900	6010	3810	807	249	178
29	754	407	e350	e395	---	3730	5210	6370	3600	791	273	190
30	743	373	e360	e390	---	2650	5640	6600	3550	882	270	184
31	714	---	e375	e380	---	2180	---	6580	---	1080	229	---
TOTAL	27407	15169	10773	11500	12670	42897	100580	194260	129560	47814	13109	6496
MEAN	884	506	348	371	453	1384	3353	6266	4319	1542	423	217
MAX	1390	715	427	400	530	6670	5640	8170	6420	3470	951	315
MIN	678	280	255	340	400	405	1940	4810	3300	738	229	129
AC-FT	54360	30090	21370	22810	25130	85090	199500	385300	257000	94840	26000	12880

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1998, BY WATER YEAR (WY)

MEAN	349	322	253	240	303	830	2447	4971	4268	1114	298	252
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	144	165	146	114	111	229	931	2172	1370	233	41.3	50.6
(WY)	1990	1995	1988	1989	1989	1988	1995	1990	1987	1989	1994	1994

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1985 - 1998	
ANNUAL TOTAL	727816		612235			
ANNUAL MEAN	1994		1677		1306	
HIGHEST ANNUAL MEAN					1925	1997
LOWEST ANNUAL MEAN					734	1989
HIGHEST DAILY MEAN	12000	Jun 4	8170	May 22	12000	Jun 4 1997
LOWEST DAILY MEAN	e255	Dec 13	129	Sep 11	1.3	Sep 1 1988
ANNUAL SEVEN-DAY MINIMUM	296	Jan 1	168	Sep 6	13	Aug 31 1988
INSTANTANEOUS PEAK FLOW			8560	May 22	12900	Jun 4 1997
INSTANTANEOUS PEAK STAGE			8.40	May 22	10.78	Jun 4 1997
ANNUAL RUNOFF (AC-FT)	1444000		1214000		946100	
10 PERCENT EXCEEDS	6770		5190		4280	
50 PERCENT EXCEEDS	778		592		370	
90 PERCENT EXCEEDS	320		277		155	

e-Estimated.

09247600 YAMPA RIVER BELOW CRAIG, CO--Continued
WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1975 to September 1980. October 1990 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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 WHOLE TOTAL UREASE (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)
DEC												
15...	1600	382	493	8.4	0.0	11.3	43	K27	200	45	21	31
JAN												
08...	1530	e350	521	8.0	0.0	--	--	--	--	--	--	--
FEB												
23...	1400	592	622	8.3	0.5	11.1	--	--	--	--	--	--
MAR												
12...	0840	e510	689	8.4	0.0	--	--	--	--	--	--	--
17...	1245	e655	673	8.2	1.5	10.9	--	--	--	--	--	--
25...	1600	3900	545	7.8	2.0	11.9	K34	K25	180	37	22	44
APR												
01...	0830	2060	647	8.2	2.5	--	--	--	--	--	--	--
21...	1815	2780	536	7.9	10.5	--	--	--	--	--	--	--
MAY												
21...	1100	6920	147	7.8	11.0	8.7	72	--	64	16	5.9	5.4
JUL												
22...	0730	737	222	7.9	21.0	--	--	--	--	--	--	--
AUG												
19...	1015	314	349	8.5	19.5	7.3	46	K23	130	31	12	18
SEP												
08...	1400	160	386	8.7	24.0	--	--	--	--	--	--	--

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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
DEC												
15...	1.0	1.8	--	--	136	110	9.5	0.2	8.1	312	0.42	322
MAR												
25...	1.0	3.1	--	--	112	160	9.3	0.2	7.6	353	0.48	3710
MAY												
21...	0.3	1.0	66	54	--	23	1.2	<0.1	8.5	94	0.13	1750
AUG												
19...	0.7	2.0	--	--	106	58	7.9	0.2	3.2	196	0.27	166

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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
DEC								
15...	<0.01	0.12	<0.02	0.24	0.24	<0.01	<0.01	<0.01
MAR								
25...	0.02	1.05	0.09	1.0	0.50	0.29	0.07	0.04
MAY								
21...	0.01	0.08	0.07	0.68	0.23	0.14	<0.01	0.01
AUG								
19...	0.01	0.05	0.02	0.30	0.23	0.02	<0.01	0.01

e-Estimated.
K-Based on non-ideal colony count.

09247600 YAMPA RIVER BELOW CRAIG, CO--Continued

WATER-QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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, TOTAL (UG/L AS SE) (01147)	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)
DEC											
15...	<1	4	200	<1	40	40	<0.1	--	2	<0.2	<20
JAN											
08...	--	--	--	--	--	--	--	2	2	--	--
FEB											
23...	--	--	--	--	--	--	--	4	5	--	--
MAR											
12...	--	--	--	--	--	--	--	3	4	--	--
17...	--	--	--	--	--	--	--	3	4	--	--
25...	<1	5	17000	<1	670	10	<0.1	5	5	<0.2	<20
APR											
01...	--	--	--	--	--	--	--	4	4	--	--
21...	--	--	--	--	--	--	--	2	3	--	--
MAY											
21...	<1	3	3200	<1	100	6	<0.1	<1	<1	<0.2	<20
JUL											
22...	--	--	--	--	--	--	--	<1	<1	--	--
AUG											
19...	<1	1	150	<1	50	7	<0.1	--	<1	<0.2	<20
SEP											
08...	--	--	--	--	--	--	--	<1	<1	--	--

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
MAR				
26...	1000	7600	210	2.0
JUN				
22...	0840	4400	150	13.0
AUG				
24...	1231	309	361	23.5
27...	1410	243	366	23.0
SEP				
01...	1100	205	371	20.5
03...	0945	253	373	18.5
15...	1102	309	377	18.0
16...	1015	285	383	17.5
17...	1002	261	392	18.0

09249750 WILLIAMS FORK RIVER AT MOUTH, NEAR HAMILTON, CO

LOCATION.--Lat 40°26'14", Long 107°38'50", in SE¼NW¼ 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, 6.1 mi north-northeast of Hamilton, and 8 mi south-southwest of Craig.

DRAINAGE AREA.--419 mi^2.

PERIOD OF RECORD.--February 1984 to current year. Water-quality data available, June 1975 to September 1980, December 1985 to September 1992, and October 1993 to September 1996. Sediment data available, June 1975 to September 1980, and April 1987 to September 1991.

GAGE.--Water stage recorder with satellite telemetry. Elevation of gage is 6,170 ft above sea level, from topographic map.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	e130	102	e120	e110	131	224	1400	1030	412	167	61
2	139	e120	114	e125	e105	146	239	1340	1030	370	149	64
3	160	e115	97	e130	e115	143	227	1550	1020	336	134	65
4	209	e125	85	e125	e120	142	240	1800	949	310	128	61
5	151	e120	105	e110	e125	112	249	1770	893	302	128	57
6	134	124	106	e105	e130	122	255	1570	753	278	120	55
7	127	125	111	e115	e125	137	251	1420	634	264	110	52
8	140	123	118	e105	e120	109	247	1380	654	251	105	52
9	164	124	112	e110	e110	116	233	1410	634	233	103	52
10	e150	122	104	e115	e115	130	226	1410	661	229	105	52
11	e155	127	95	e120	e110	117	255	1690	671	299	102	48
12	e160	129	e90	e120	e90	121	374	1360	612	236	100	52
13	e165	123	e50	e115	e115	120	401	1400	598	205	95	83
14	e165	111	e55	e120	e105	127	363	1610	587	188	92	75
15	e170	82	e70	e115	e120	137	340	1300	583	170	89	64
16	e175	82	e95	e110	e115	142	327	1180	548	157	86	67
17	e170	115	e85	e120	e110	147	328	1270	945	147	84	65
18	e160	133	e80	e125	e105	139	325	1420	819	134	79	63
19	e165	123	e85	e120	e100	120	313	1590	787	129	77	59
20	e155	126	e80	e115	e90	117	308	1690	698	121	77	58
21	e160	114	e70	e120	e90	121	318	1910	665	117	77	57
22	e150	121	e80	e115	e100	132	369	1830	646	115	89	57
23	e145	92	e90	e105	e95	140	496	1320	632	120	91	57
24	e140	126	e65	e120	e95	199	778	1140	585	145	80	66
25	e140	135	e70	e115	e100	352	948	1050	527	175	78	68
26	e145	126	e80	e110	e85	481	919	1050	502	233	75	60
27	e130	127	e85	e105	e90	437	872	1070	502	162	75	61
28	e125	114	e90	e120	e95	361	950	1170	481	139	80	61
29	e120	113	e100	e120	---	300	1040	1190	460	218	68	59
30	e110	95	e110	e125	---	247	1180	1170	441	300	65	60
31	e115	---	e115	e115	---	240	---	1130	---	212	63	---
TOTAL	4641	3542	2794	3610	2985	5585	13595	43590	20547	6707	2971	1811
MEAN	150	118	90.1	116	107	180	453	1406	685	216	95.8	60.4
MAX	209	135	118	130	130	481	1180	1910	1030	412	167	83
MIN	110	82	50	105	85	109	224	1050	441	115	63	48
AC-FT	9210	7030	5540	7160	5920	11080	26970	86460	40750	13300	5890	3590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1998, BY WATER YEAR (WY)

MEAN	71.0	67.3	60.1	60.3	62.5	102	326	1077	707	182	77.1	61.9
MAX	150	118	106	116	108	180	680	2228	1721	494	220	203
(WY)	1998	1998	1985	1998	1986	1998	1985	1984	1984	1984	1984	1997
MIN	32.3	34.4	38.3	37.9	40.8	64.1	101	396	147	28.0	25.3	19.7
(WY)	1993	1995	1995	1991	1991	1995	1995	1990	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1984 - 1998	
ANNUAL TOTAL	121142		112378			
ANNUAL MEAN	332		308		223	
HIGHEST ANNUAL MEAN					358	1985
LOWEST ANNUAL MEAN					105	1994
HIGHEST DAILY MEAN	2290	Jun 3	1910	May 21	3980	May 16 1984
LOWEST DAILY MEAN	a50	Feb 15	48	Sep 11	13	Sep 13 1994
ANNUAL SEVEN-DAY MINIMUM	56	Feb 5	52	Sep 6	15	Sep 9 1994
INSTANTANEOUS PEAK FLOW			2100	May 21	4750	May 16 1984
INSTANTANEOUS PEAK STAGE			6.93	May 21	9.96	May 16 1984
ANNUAL RUNOFF (AC-FT)	240300		222900		161800	
10 PERCENT EXCEEDS	1070		987		707	
50 PERCENT EXCEEDS	130		125		80	
90 PERCENT EXCEEDS	62		70		38	

e-Estimated.
a-Also occurred Dec 13 (which is estimated).

09251000 YAMPA RIVER NEAR MAYBELL, CO

LOCATION (REVISED).--Lat 40°30'10", long 108°01'45", in SE¼NW¼ 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.

DRAINAGE AREA.--3,410 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1904 to October 1905, June 1910 to November 1912, April 1916 to current year. Monthly discharge only for some periods, published in WSP 1313. No winter records prior to 1917.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,900.23 ft above sea level. See WSP 1733 for history of changes prior to Mar. 9, 1937.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by transbasin diversions, numerous storage reservoirs, and diversions upstream from station for irrigation of about 65,000 acres upstream from, and about 800 acres downstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1230	971	625	e500	e560	e380	2580	8130	7760	4280	1250	211
2	1420	952	634	e660	e660	e420	2510	8550	7390	4110	1130	191
3	1530	898	721	e640	e660	e600	2860	8630	7520	3810	997	209
4	1590	848	557	e610	e640	e420	3030	9570	7580	3560	879	215
5	1560	887	447	e560	e760	e370	3480	10400	7470	3330	788	195
6	1230	844	538	e210	e640	e440	3560	9860	6290	3120	769	173
7	1080	816	614	e200	e760	e360	3370	8920	5160	2990	723	158
8	1030	808	702	e390	e740	e300	2910	8630	4660	2700	624	149
9	1080	823	665	e300	e620	e540	2850	8350	4850	2340	566	154
10	1120	835	609	e480	e500	e500	2750	7860	4740	2180	537	134
11	e1180	842	597	e800	e520	e560	3020	8430	4710	2170	512	134
12	e1260	813	323	e620	e460	e640	4180	8660	4620	2160	470	115
13	e1250	777	e235	e520	e500	745	5280	7640	4330	1980	444	131
14	e1200	741	e240	e440	e700	851	4310	7840	4580	1760	415	261
15	1150	698	e320	e540	e700	965	3950	7680	5270	1590	399	287
16	1170	491	e510	e350	e680	981	3560	6850	4960	1420	340	264
17	1170	523	e460	e660	e600	1150	3630	6500	5470	1270	333	243
18	1210	713	e520	e660	e600	1080	3540	7040	6770	1160	318	222
19	1210	718	e400	e640	e520	1190	3330	8020	6020	1080	290	205
20	1180	724	e350	e600	e460	1120	3070	8570	5520	1020	324	193
21	1130	737	e330	e450	e500	1040	3030	9330	5370	938	391	185
22	1130	700	e350	e400	e560	1050	3350	10300	5280	860	344	174
23	1130	709	e280	e410	e540	1160	3980	9600	5400	839	351	189
24	1120	652	e330	e600	e580	1920	5130	7740	5280	871	348	194
25	1100	769	e280	e560	e660	4100	6380	6820	4960	895	295	189
26	1010	866	e290	e450	e450	e7200	6590	6500	4580	1070	262	182
27	922	752	e280	e520	e450	e6000	6440	6780	4710	1180	256	173
28	960	744	e350	e430	e420	5670	6510	7230	4730	1080	237	170
29	1020	712	e480	e420	---	4990	6890	7730	4540	1000	252	163
30	1020	682	e460	e620	---	3820	7420	7960	4330	1240	272	162
31	1000	---	e390	e590	---	2930	---	7960	---	1270	239	---
TOTAL	36392	23045	13887	15830	16440	53492	123490	254080	164850	59273	15355	5625
MEAN	1174	768	448	511	587	1726	4116	8196	5495	1912	495	188
MAX	1590	971	721	800	760	7200	7420	10400	7760	4280	1250	287
MIN	922	491	235	200	420	300	2510	6500	4330	839	237	115
AC-FT	72180	45710	27540	31400	32610	106100	244900	504000	327000	117600	30460	11160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1998, BY WATER YEAR (WY)

MEAN	354	356	299	277	334	719	2623	6304	5590	1427	391	250
MAX	1174	768	624	610	1071	2063	6496	14000	12810	5819	1052	1366
(WY)	1998	1998	1948	1948	1986	1986	1962	1984	1917	1957	1957	1997
MIN	117	184	137	115	160	221	735	1850	548	20.4	26.5	27.8
(WY)	1964	1977	1964	1934	1964	1964	1944	1977	1934	1934	1934	1934

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1916 - 1998	
ANNUAL TOTAL	973659		781759			
ANNUAL MEAN	2668		2142		1579	
HIGHEST ANNUAL MEAN					3025	1984
LOWEST ANNUAL MEAN					477	1977
HIGHEST DAILY MEAN	16400	Jun 4	10400	May 5	24400	May 17 1984
LOWEST DAILY MEAN	e235	Dec 13	115	Sep 12	a2.0	Jul 17 1934
ANNUAL SEVEN-DAY MINIMUM	306	Dec 21	139	Sep 7	3.0	Jul 30 1934
INSTANTANEOUS PEAK FLOW			10700	May 22	25100	May 17 1984
INSTANTANEOUS PEAK STAGE			8.41	May 22	12.42	May 17 1984
ANNUAL RUNOFF (AC-FT)	1931000		1551000		1144000	
10 PERCENT EXCEEDS	9150		6800		5360	
50 PERCENT EXCEEDS	971		839		402	
90 PERCENT EXCEEDS	371		262		177	

e-Estimated.
a-Also occurred Jul 18-19, 1934.

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.
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 1981 to September 1982.

INSTRUMENTATION:--Water-quality monitor July 1975 to October 1997; water-quality monitor with satellite telemetry October 24, 1997 to current year.

REMARKS.--Specific-conductance record is good except Dec. 14 to Feb. 10, Apr. 9-21 and June 19 to July 31, which are fair, Feb. 11-28, Mar. 5-17, which are poor due to diurnal fouling by slush ice. Water-temperature record is fair. Periods of missing record are caused by sensor fouling or instrument malfunction. Unpublished maximum and minimum specific-conductance data for period of daily record available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1260 microsiemens, Nov. 17, 1985; minimum, 78 microsiemens, June 1-2, 1994.
WATER TEMPERATURE: Maximum, 33.0°C, Aug. 29, 1976; minimum, 0.0°C, on many days during winter months.
SEDIMENT CONCENTRATIONS: Maximum daily, 6,180 mg/l, Aug. 16, 1981; minimum daily, 1 mg/l, several days during Dec. 1975 to Feb. 1976, Jan. 6, 1980.
SEDIMENT LOADS: Maximum daily, 47,100 tons, May 9, 1958; minimum daily, 0.04 ton, Oct. 2-3, 1982.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 1060 microsiemens, Mar. 9; minimum recorded, 147 microsiemens, June 4.
WATER TEMPERATURE: Maximum recorded, 26.0°C, July 20; minimum recorded, 0.0°C, on many days during the winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT												
20...	1500	1210	391	8.8	9.5	10.6	150	32	17	22	0.8	1.5
JAN												
08...	1620	426	712	8.3	0.0	12.5	280	52	36	52	1	2.3
FEB												
25...	1300	648	900	8.4	0.5	10.5	330	57	45	74	2	3.1
MAR												
12...	1040	649	928	8.6	0.5	--	--	--	--	--	--	--
18...	1030	797	861	8.3	1.0	10.9	--	--	--	--	--	--
26...	1235	e7200	625	8.1	4.5	--	--	--	--	--	--	--
APR												
01...	1215	2490	742	8.4	5.0	11.4	290	60	35	52	1	3.4
21...	1910	3030	659	8.3	10.5	--	--	--	--	--	--	--
MAY												
08...	1200	8590	306	8.0	10.0	10.5	130	31	14	11	0.4	1.5
20...	1520	8630	223	8.2	12.0	--	--	--	--	--	--	--
JUN												
02...	1425	7140	170	8.2	14.0	8.5	68	17	6.6	6.7	0.4	0.9
JUL												
22...	1015	860	354	8.4	22.0	7.2	140	30	15	21	0.8	1.7
AUG												
19...	1425	289	546	8.6	23.0	8.1	190	39	22	34	1	2.2
SEP												
08...	1445	150	605	8.5	23.5	8.0	220	43	27	46	1	1.9

e-Estimated

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SELENIUM, TOTAL (UG/L AS SE) (01147)
OCT												
20...	--	--	102	86	7.2	0.2	6.2	234	0.32	764	--	--
JAN												
08...	185	152	--	210	17	0.2	8.7	465	0.63	535	2	3
FEB												
25...	182	159	--	280	19	0.1	7.3	578	0.79	1010	4	4
MAR												
12...	--	--	--	--	--	--	--	--	--	--	5	4
18...	--	--	--	--	--	--	--	--	--	--	4	4
26...	--	--	--	--	--	--	--	--	--	--	4	6
APR												
01...	--	--	156	230	13	0.2	11	493	0.67	3310	3	4
21...	--	--	--	--	--	--	--	--	--	--	3	3
MAY												
08...	--	--	98	60	2.7	0.2	9.6	188	0.26	4350	--	--
20...	--	--	--	--	--	--	--	--	--	--	<1	<1
JUN												
02...	61	50	--	28	1.4	<0.1	8.1	98	0.13	1900	--	--
JUL												
22...	--	--	97	68	9.2	0.2	6.3	209	0.28	486	<1	<1
AUG												
19...	--	--	144	110	15	0.2	4.1	317	0.43	247	--	--
SEP												
08...	--	--	150	130	20	0.2	4.4	363	0.49	147	<1	<1

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG.C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	401	387	394	626	589	602	656	626	634	626	589	603
2	404	386	399	590	539	561	657	637	650	589	565	572
3	386	327	353	540	506	522	---	---	---	573	557	564
4	364	324	338	508	495	503	---	636	---	626	572	599
5	381	361	370	505	485	497	680	645	665	692	606	651
6	371	350	358	499	490	493	677	642	656	700	639	672
7	392	371	383	495	487	490	660	645	652	711	683	696
8	412	387	398	498	485	491	681	658	672	729	699	712
9	476	412	452	498	483	488	665	624	649	722	697	707
10	476	449	462	493	483	488	662	619	634	714	694	704
11	467	451	459	496	484	488	656	620	634	711	697	704
12	453	421	435	515	496	503	660	634	644	705	683	691
13	430	415	422	548	515	532	673	647	660	683	674	678
14	460	429	443	571	546	557	709	626	666	674	664	670
15	454	430	439	588	565	576	800	703	743	691	667	679
16	447	433	440	614	585	602	800	748	775	702	680	690
17	448	420	431	593	577	586	748	698	725	703	691	697
18	425	413	417	598	546	581	698	645	664	713	696	706
19	414	395	402	592	547	571	645	606	620	750	707	730
20	398	384	391	554	516	535	606	585	593	756	728	742
21	388	380	383	550	524	537	599	585	591	775	751	765
22	390	383	386	557	541	550	610	592	598	796	770	784
23	397	388	392	569	544	558	624	608	615	774	750	762
24	398	386	391	575	545	561	648	623	631	754	725	740
25	438	391	413	573	545	557	646	629	639	740	711	727
26	472	431	445	604	552	582	648	636	642	723	701	712
27	527	472	498	605	585	593	667	646	654	703	690	697
28	551	511	528	609	579	595	686	667	679	705	684	693
29	563	540	551	625	609	619	686	675	681	710	687	700
30	601	555	572	628	602	614	686	662	676	722	693	708
31	626	600	608	---	---	---	662	626	646	729	689	709
MONTH	626	324	431	628	483	548	---	---	---	796	557	692

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG.C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	737	696	719	---	---	---	768	725	743	359	340	351
2	752	725	739	---	---	---	802	768	788	341	330	336
3	739	707	723	---	---	---	822	790	810	340	323	332
4	719	707	711	---	---	---	791	752	774	323	301	313
5	725	703	713	962	911	934	760	666	715	301	289	293
6	781	725	752	1020	947	990	678	622	644	298	282	290
7	818	756	786	1010	973	994	638	605	618	304	286	295
8	843	814	829	1030	979	996	655	616	639	318	296	307
9	881	841	864	1060	977	1010	678	633	657	327	311	317
10	879	854	866	1050	949	998	637	623	628	331	316	323
11	884	869	876	995	906	953	623	586	607	320	298	311
12	887	824	862	970	891	918	595	524	560	301	286	292
13	868	821	840	950	847	903	524	447	465	308	297	303
14	870	818	842	934	833	888	537	470	506	297	277	287
15	864	805	830	933	840	890	588	537	555	277	266	272
16	831	810	823	956	842	892	615	588	604	287	273	280
17	839	826	833	---	---	---	666	614	623	291	280	285
18	873	834	857	---	---	---	742	666	714	280	255	266
19	887	873	879	---	---	---	746	720	727	255	232	242
20	882	853	864	---	---	---	725	687	702	232	220	224
21	853	833	843	---	---	---	687	655	668	222	208	213
22	876	840	857	---	---	---	665	585	625	210	200	202
23	901	852	872	---	---	---	613	517	556	205	194	199
24	937	873	902	---	---	---	541	442	477	218	204	210
25	---	889	---	---	---	---	442	407	419	233	216	223
26	953	---	---	---	---	---	426	408	416	233	223	228
27	977	953	963	609	---	---	418	406	411	229	208	218
28	---	---	---	638	566	610	415	400	407	217	194	201
29	---	---	---	650	605	628	402	383	392	199	180	188
30	---	---	---	664	642	652	383	358	373	189	174	181
31	---	---	---	725	664	690	---	---	---	186	169	177
MONTH	---	---	---	---	---	---	822	358	594	359	169	263

		JUNE			JULY			AUGUST			SEPTEMBER	
1	185	166	174	199	187	193	421	399	410	567	556	563
2	185	163	173	199	187	193	417	386	398	576	543	562
3	177	154	165	198	191	194	423	397	406	582	549	572
4	168	147	157	207	197	201	431	417	424	595	573	585
5	201	163	177	215	207	212	468	430	454	596	577	587
6	230	201	217	225	215	222	478	440	454	599	560	590
7	243	227	234	226	222	224	487	438	453	603	587	596
8	248	236	239	232	223	227	449	434	438	618	600	611
9	249	228	236	245	232	237	457	441	448	625	612	614
10	275	233	248	252	245	248	459	453	455	637	618	630
11	279	268	273	272	252	259	473	459	464	644	637	640
12	284	270	277	279	267	273	495	473	481	674	635	651
13	285	270	277	281	267	273	524	483	499	671	661	664
14	277	242	252	289	281	285	506	495	499	672	658	664
15	248	216	233	302	288	294	506	496	501	672	657	666
16	243	216	224	304	297	300	521	504	512	657	607	627
17	335	240	288	308	297	303	536	514	522	609	586	599
18	333	294	309	322	304	310	546	531	539	590	587	589
19	323	295	311	326	321	324	550	542	547	594	589	591
20	295	269	276	344	323	330	555	542	546	604	592	601
21	269	233	242	363	341	353	556	526	541	627	581	606
22	241	219	226	371	347	361	527	509	517	613	600	607
23	226	198	207	370	365	367	535	516	526	615	608	612
24	207	184	193	375	368	372	541	531	536	614	608	610
25	203	181	191	414	375	389	546	531	536	612	608	610
26	204	191	197	417	379	389	550	542	545	625	609	618
27	204	180	189	421	379	400	566	550	554	648	616	630
28	195	175	184	423	344	377	571	563	567	638	628	633
29	196	182	188	406	343	371	575	567	571	633	626	630
30	198	188	193	455	358	424	586	572	580	630	625	627
31	---	---	---	487	418	443	581	564	574	---	---	---
MONTH	335	147	225	487	187	302	586	386	500	674	543	613

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.5	12.4	14.0	5.5	4.1	4.8	.7	.2	.4	.0	.0	.0
2	15.6	13.1	14.5	4.8	3.0	4.1	.7	.0	.2	.0	.0	.0
3	15.7	13.5	14.6	4.2	2.7	3.6	.5	.0	.1	.0	.0	.0
4	15.3	12.8	14.2	4.9	2.9	4.1	.0	.0	.0	.0	.0	.0
5	15.5	12.7	14.1	4.9	3.0	4.2	.0	.0	.0	.0	.0	.0
6	15.1	12.5	13.9	4.9	3.1	4.2	.5	.0	.0	.0	.0	.0
7	14.3	12.4	13.2	5.0	3.2	4.3	.1	.0	.0	.0	.0	.0
8	12.5	10.3	11.0	5.1	3.7	4.6	.2	.0	.0	.0	.0	.0
9	11.2	8.5	10.0	4.8	2.5	3.5	.0	.0	.0	.0	.0	.0
10	11.0	9.0	10.1	3.2	1.6	2.5	.0	.0	.0	.0	.0	.0
11	10.6	9.2	10.0	3.0	2.0	2.4	.0	.0	.0	.0	.0	.0
12	10.0	6.6	8.2	2.8	1.6	2.2	.0	.0	.0	.0	.0	.0
13	7.2	4.9	6.2	3.4	2.1	2.7	.0	.0	.0	.0	.0	.0
14	7.5	4.8	6.2	2.6	.0	1.2	.0	.0	.0	.0	.0	.0
15	8.4	5.5	7.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
16	8.9	6.2	7.6	.6	.0	.1	.0	.0	.0	.0	.0	.0
17	9.4	6.6	8.1	1.0	.0	.2	.0	.0	.0	.0	.0	.0
18	9.8	7.3	8.7	1.0	.0	.1	.0	.0	.0	.0	.0	.0
19	9.8	7.4	8.7	1.2	.0	.5	.0	.0	.0	.0	.0	.0
20	9.6	7.5	8.7	1.9	.8	1.3	.0	.0	.0	.0	.0	.0
21	9.4	7.3	8.5	1.3	.4	.8	.0	.0	.0	.0	.0	.0
22	8.9	6.9	8.1	.5	.0	.1	.0	.0	.0	.0	.0	.0
23	8.5	6.5	7.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	6.8	3.0	4.8	1.0	.0	.1	.0	.0	.0	.0	.0	.0
25	3.0	1.0	2.0	.9	.0	.1	.0	.0	.0	.0	.0	.0
26	3.4	1.0	2.3	.4	.0	.1	.0	.0	.0	.0	.0	.0
27	4.0	1.7	3.0	2.0	.2	1.1	.0	.0	.0	.0	.0	.0
28	---	---	---	1.3	.5	1.0	.0	.0	.0	.0	.0	.0
29	---	---	---	.7	.1	.4	.0	.0	.0	.0	.0	.0
30	6.9	5.0	5.9	1.3	.1	.6	.0	.0	.0	.0	.0	.0
31	6.8	5.5	6.1	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	---	---	---	5.5	.0	1.8	.7	.0	.0	.0	.0	.0

		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	---	.0	---	5.9	3.0	4.5	10.0	9.3	9.7
2	.0	.0	.0	---	---	---	5.7	5.2	5.4	9.7	8.9	9.3
3	.0	.0	.0	---	---	---	6.9	4.9	5.8	11.0	9.2	10.0
4	.0	.0	.0	---	---	---	7.6	5.0	6.4	10.4	9.3	9.7
5	.0	.0	.0	.7	.0	.1	7.7	6.2	7.0	9.4	8.8	9.2
6	.0	.0	.0	.5	.0	.1	6.8	5.9	6.4	9.1	8.2	8.6
7	.0	.0	.0	.1	.0	.0	6.4	5.2	5.8	9.3	8.0	8.6
8	.0	.0	.0	.7	.0	.1	6.6	4.6	5.5	8.6	8.1	8.4
9	.0	.0	.0	.6	.0	.1	7.6	4.9	6.1	9.4	7.6	8.4
10	.0	.0	.0	.5	.0	.0	8.2	5.5	6.9	10.1	8.3	9.1
11	.0	.0	.0	1.4	.0	.2	9.4	6.6	8.0	10.2	9.2	9.8
12	.0	.0	.0	1.7	.0	.3	8.8	7.3	8.0	9.4	8.4	8.9
13	.0	.0	.0	1.5	.0	.3	7.3	5.4	6.3	10.4	9.1	9.7
14	.0	.0	.0	1.6	.0	.3	6.4	5.2	5.7	10.7	9.7	10.1
15	.2	.0	.0	1.5	.0	.3	6.4	4.9	5.6	9.7	8.6	9.2
16	.1	.0	.0	1.8	.0	.7	6.7	5.3	6.0	10.2	8.1	9.2
17	.1	.0	.0	---	---	---	7.1	5.0	6.0	11.3	9.0	10.1
18	.1	.0	.0	---	---	---	7.3	5.0	6.1	12.2	10.1	11.1
19	.4	.0	.0	---	---	---	7.3	5.8	6.6	12.2	10.9	11.5
20	.0	.0	.0	---	---	---	9.1	6.4	7.6	12.1	10.7	11.3
21	.4	.0	.0	---	---	---	10.2	7.0	8.6	11.9	10.9	11.4
22	.6	.0	.1	---	---	---	11.6	8.3	9.9	11.0	9.5	10.0
23	.2	.0	.0	---	---	---	12.2	9.6	10.9	10.6	8.9	9.7
24	.4	.0	.1	---	---	---	11.1	9.2	10.4	10.9	9.4	10.2
25	.2	.0	.0	---	---	---	9.4	8.1	8.8	11.2	9.2	10.3
26	.0	.0	.0	---	---	---	8.9	8.1	8.4	11.8	10.3	11.1
27	.2	.0	.0	3.3	---	---	9.6	7.7	8.6	12.5	10.6	11.6
28	.3	.0	.0	3.7	2.5	3.2	9.8	8.4	9.1	13.3	11.1	12.2
29	---	---	---	3.6	2.5	3.0	10.3	8.5	9.4	12.8	11.6	12.2
30	---	---	---	3.2	2.1	2.7	10.4	9.0	9.7	13.2	11.2	12.3
31	---	---	---	4.2	2.1	3.1	---	---	---	13.4	11.3	12.4
MONTH	.6	.0	.0	---	---	---	12.2	3.0	7.3	13.4	7.6	10.2

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	13.6	11.5	12.7	19.5	17.1	18.3	22.0	19.8	21.0	22.5	19.0	20.3
2	14.2	12.0	13.1	19.6	17.3	18.6	21.9	18.9	20.5	23.2	17.8	20.1
3	13.9	12.1	13.1	20.3	17.6	18.9	22.4	19.4	20.7	23.5	17.6	20.3
4	13.4	11.4	11.9	19.8	17.8	18.8	21.3	18.7	20.0	24.1	18.8	21.1
5	11.6	9.8	10.6	20.1	17.0	18.6	22.6	18.1	20.5	24.6	19.9	21.8
6	11.1	9.4	10.4	21.5	18.3	19.9	24.2	19.6	22.0	25.3	19.8	22.2
7	13.2	10.5	11.7	21.7	19.1	20.4	24.3	20.4	22.6	25.3	20.4	22.5
8	13.5	12.0	12.8	21.9	18.5	20.3	24.5	21.0	22.9	23.9	20.3	21.7
9	13.3	11.7	12.4	21.1	19.2	20.1	24.8	21.0	22.7	22.4	18.7	20.5
10	12.4	10.6	11.5	19.9	18.8	19.4	22.6	20.5	21.2	21.3	18.0	19.5
11	13.4	10.9	12.1	20.7	17.5	19.1	22.9	19.0	21.0	21.0	17.7	19.0
12	14.7	12.0	13.3	21.3	17.8	19.5	23.0	19.1	21.1	20.9	16.8	18.6
13	13.9	13.1	13.5	22.4	18.6	20.5	24.5	19.8	22.1	19.2	15.3	17.2
14	13.1	11.6	12.4	23.1	19.6	21.3	24.8	20.5	22.6	20.4	15.4	17.8
15	12.4	10.5	11.5	23.9	19.9	21.9	24.5	20.5	22.4	20.6	16.4	18.4
16	11.9	10.4	11.2	24.3	20.1	22.3	25.9	19.8	22.2	20.5	16.5	18.4
17	10.4	9.2	9.8	25.0	20.5	22.9	24.7	20.2	22.2	21.1	16.2	18.5
18	11.3	8.6	9.8	25.5	21.1	23.4	23.0	19.8	20.9	20.4	16.0	18.0
19	13.3	10.6	11.9	25.7	21.9	24.0	23.2	18.2	20.7	20.3	16.1	17.9
20	14.8	11.7	13.2	26.0	21.5	23.9	22.5	18.8	20.9	19.3	15.0	16.6
21	16.1	13.8	14.9	25.3	22.4	23.8	21.2	18.8	19.8	17.9	14.4	15.8
22	16.5	14.2	15.3	24.4	21.5	23.0	22.2	17.5	19.8	18.6	13.7	15.9
23	16.3	14.7	15.5	24.4	21.4	22.6	22.6	18.9	20.8	17.8	14.7	15.8
24	15.5	14.1	14.9	24.4	21.2	22.6	23.5	19.6	21.6	19.3	14.1	16.4
25	15.6	13.6	14.6	23.2	21.4	22.3	23.6	19.6	21.4	18.3	14.1	15.8
26	16.5	14.3	15.4	23.9	21.1	22.5	23.8	19.3	21.3	17.2	12.7	14.7
27	16.5	14.5	15.5	24.3	20.8	22.6	23.8	19.1	21.2	17.5	12.0	14.4
28	16.9	14.6	15.8	23.2	21.4	22.1	23.6	18.2	20.7	17.3	11.8	14.2
29	18.1	15.6	16.8	23.6	20.0	21.7	23.1	18.3	20.5	17.4	12.8	14.7
30	19.0	16.5	17.7	23.5	20.6	22.0	23.4	18.2	20.7	17.9	13.5	15.4
31	---	---	---	22.6	20.2	21.5	22.7	19.3	20.6	---	---	---
MONTH	19.0	8.6	13.2	26.0	17.0	21.3	25.9	17.5	21.2	25.3	11.8	18.1

09251100 YAMPA RIVER ABOVE LITTLE SNAKE RIVER, NEAR MAYBELL, CO

LOCATION.--Lat 40°27'39", long 108°25'30", in NW¼NE¼ sec.20, T.6 N., R.98 W., Moffat County, Hydrologic Unit 14050002, attached to center pier of Moffat Count Road 25 bridge 1 mi upstream from the mouth of Little Snake River and 18 mi west of Maybell.

DRAINAGE AREA.--3,837 mi^2.

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 and March 27 to May 6, which are poor. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1410	1060	e631	e570	e560	e540	3380	7630	7740	4320	1350	261
2	1350	1040	e600	e580	e540	e530	3020	8310	7380	4220	1170	237
3	1650	1040	e560	e590	e530	e500	3220	8160	7390	3940	1130	222
4	1570	960	e430	e600	e540	e550	3350	8650	7500	3680	994	246
5	1720	868	e340	e580	e500	e580	3790	9580	7450	3400	884	258
6	1410	894	e360	e560	e560	e580	4090	9590	6670	3210	828	220
7	1310	838	e490	e540	e560	e530	4020	8950	5520	3040	802	190
8	1310	e810	e550	e320	e600	e530	3530	8430	4740	2830	710	185
9	1190	e800	e590	e300	e590	e480	3300	8380	4730	2510	621	175
10	1250	e810	e490	e450	e590	e490	3170	7940	4760	2270	557	188
11	1290	e820	e410	e400	e550	e560	3200	7990	4620	2190	559	160
12	1350	e830	e400	e460	e560	e692	3770	8700	4620	2220	544	173
13	1410	e800	e330	e520	e530	e752	5710	7770	4250	2080	494	157
14	1450	e770	e350	e580	e470	e859	5010	7620	4380	1890	455	161
15	1260	e620	e350	e560	e490	e973	4350	7780	4740	1790	433	334
16	1170	e490	e450	e530	e500	e987	4040	7050	5120	e1650	411	350
17	1200	e450	e550	e490	e540	e1160	3780	6450	5030	e1460	357	326
18	1230	e580	e620	e530	e520	e1080	3790	6750	6770	e1320	358	298
19	1240	e680	e640	e570	e530	e1200	3610	7580	6380	e1210	345	273
20	1220	e700	e660	e580	e520	e1130	3430	8220	5820	e1160	317	252
21	1200	e720	e650	e590	e550	e1050	3140	8740	5580	e1100	372	239
22	1140	e740	e620	e580	e560	e1050	3290	9500	5380	e1020	424	232
23	e1110	e660	e560	e520	e520	e1170	3540	9580	5460	898	369	223
24	e1110	e620	e500	e540	e560	e1920	4270	8170	5430	890	380	245
25	e1030	e620	e470	e540	e570	e4120	5870	7080	5160	958	370	241
26	e940	e680	e450	e580	e590	e6000	6300	6620	4720	998	317	236
27	e910	e720	e430	e580	e600	7320	6380	6740	4700	1190	289	229
28	1040	e720	e430	e590	e560	6470	6170	7060	4780	1200	273	217
29	1090	e700	e440	e580	---	6180	6480	7570	4650	1080	261	210
30	1120	e688	e470	e560	---	5180	6750	7830	4410	1110	283	210
31	1070	---	e480	e530	---	3980	---	7880	---	1280	281	---
TOTAL	38750	22728	15301	16500	15290	59143	127750	248300	165880	62114	16938	6948
MEAN	1250	758	494	532	546	1908	4258	8010	5529	2004	546	232
MAX	1720	1060	660	600	600	7320	6750	9590	7740	4320	1350	350
MIN	910	450	330	300	470	480	3020	6450	4250	890	261	157
AC-FT	76860	45080	30350	32730	30330	117300	253400	492500	329000	123200	33600	13780

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1998, BY WATER YEAR (WY)

MEAN	789	619	438	465	477	1592	3774	8714	7152	1786	612	630
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	328	481	382	398	408	1276	3290	8010	5529	1598	368	211
(WY)	1997	1997	1997	1997	1997	1997	1997	1998	1998	1996	1996	1996

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1996 - 1998	
ANNUAL TOTAL	937625		795642			
ANNUAL MEAN	2569		2180		2319	
HIGHEST ANNUAL MEAN					2458	1997
LOWEST ANNUAL MEAN					2180	1998
HIGHEST DAILY MEAN	15500	Jun 5	9590	May 6	15500	Jun 5 1997
LOWEST DAILY MEAN	e330	Dec 13	157	Sep 13	103	Sep 7 1996
ANNUAL SEVEN-DAY MINIMUM	364	Jan 1	171	Sep 8	121	Sep 4 1996
INSTANTANEOUS PEAK FLOW			9980	May 22	16400	Jun 5 1997
INSTANTANEOUS PEAK STAGE			9.05	May 22	10.74	Jun 5 1997
ANNUAL RUNOFF (AC-FT)	1860000		1578000		1680000	
10 PERCENT EXCEEDS	8740		6740		7570	
50 PERCENT EXCEEDS	1040		838		752	
90 PERCENT EXCEEDS	400		324		299	

e-Estimated.

09251100 YAMPA RIVER ABOVE LITTLE SNAKE RIVER NEAR MAYBELL, CO--Continued
WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1997 to September 1998.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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				
21...	1450	1200	407	9.5
DEC				
16...	1330	369	684	0.0
FEB				
26...	1155	e430	964	0.0
MAR				
05...	1105	447	944	0.5
APR				
22...	0940	3260	664	9.0

e-Estimated.

SUSPENDED- SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 0.062 MM (70331)
MAY					
06...	1505	9590	865	22400	75
19...	1440	7580	485	9930	80
27...	1610	6760	352	6420	70
JUN					
02...	1605	7380	20500	408000	100
03...	1415	7620	277	5700	68
10...	1115	4830	275	3590	57
17...	1100	5130	498	6900	56
30...	1315	4630	104	1300	48

BEDLOAD SEDIMENT, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	TEMPER-ATURE WATER (DEG C) (00010)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	SEDI-MENT DIS-CHARGE, BEDLOAD (TONS/ DAY) (80225)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 0.062 MM (80226)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 0.125 MM (80227)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 0.250 MM (80228)
MAY								
06...	1505	10.0	9590	272	138	--	--	7
19...	1440	13.0	7580	259	174	--	--	2
27...	1610	--	6760	--	420	--	--	2
JUN								
02...	1605	--	7380	--	629	--	--	--
03...	1415	--	7620	--	528	--	--	--
10...	1115	12.0	4830	235	100	--	1	8
17...	1100	--	5130	--	71	--	--	7
30...	1315	19.5	4630	188	69	--	--	8

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 0.500 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)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM (80234)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM (80235)
MAY							
06...	56	83	90	94	95	97	100
19...	24	64	91	99	100	--	--
27...	48	83	95	98	100	--	--
JUN							
02...	13	40	73	91	98	100	--
03...	10	38	78	95	100	--	--
10...	86	97	100	--	--	--	--
17...	69	96	99	100	--	--	--
30...	40	57	78	94	100	--	--

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO

LOCATION.--Lat 40°59'58", long 107°08'34", in SW¼NW¼ sec.15, T.12 N., R.87 W., Routt County, Hydrologic Unit 14050003, on left bank just downstream from highway bridge at Focus Ranch, 0.2 mi downstream from Spring Creek, and 12 mi east of Slater.

DRAINAGE AREA.--285 mi^2.

PERIOD OF RECORD.--October 1942 to September 1947, October 1950 to current year.

REVISED RECORDS.--WSP 1733: 1960.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,831.00 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 2,000 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	80	e62	e51	e45	e44	122	1070	1380	622	148	34
2	64	61	e58	e51	e44	e44	127	1110	1390	566	124	35
3	124	63	e59	e51	e45	e43	121	1180	1350	506	120	34
4	95	75	e62	e50	e43	e44	136	1220	1340	468	118	33
5	75	63	e65	e49	e42	e44	141	1240	1140	438	116	32
6	68	64	e66	e48	e41	e50	135	1140	897	393	110	31
7	65	66	e66	e48	e40	e55	128	1260	810	349	106	31
8	104	68	e60	e49	e39	e60	126	1140	863	326	103	31
9	94	69	e60	e48	e38	e65	129	1030	854	304	102	31
10	102	63	e62	e48	e39	e70	132	1190	878	323	99	31
11	104	64	e64	e48	e40	e85	180	1260	729	323	92	31
12	112	65	e64	e48	e42	122	253	1000	686	261	86	53
13	97	63	e62	e48	e40	125	212	1090	681	225	79	75
14	96	36	e59	e48	e42	142	197	1160	1120	204	75	63
15	107	52	e57	e48	e39	154	182	980	934	187	69	50
16	110	71	e57	e47	e38	165	185	1010	971	170	64	39
17	110	e75	e55	e48	e38	169	167	1220	1350	159	63	35
18	108	e79	e53	e46	e38	142	159	1450	1340	132	62	34
19	96	e75	e52	e47	e37	142	162	1550	1310	126	58	32
20	89	e65	e51	e49	e36	125	181	1710	1190	121	53	32
21	85	e65	e51	e48	e39	128	224	1870	1170	114	50	32
22	80	e68	e50	e47	e38	114	305	1670	1150	112	60	35
23	76	e65	e49	e48	e38	123	458	1360	1090	143	53	36
24	79	e66	e49	e49	e37	158	601	1170	1000	139	45	46
25	54	e62	e49	e48	e38	235	608	1100	920	155	42	40
26	71	e60	e49	e44	e38	271	633	1130	888	226	40	34
27	74	e58	e49	e43	e39	197	697	1230	828	129	44	33
28	80	e60	e49	e47	e41	165	745	1370	759	128	45	32
29	81	e58	e48	e44	---	150	848	1480	713	139	38	32
30	84	e62	e50	e46	---	134	1000	1480	665	267	35	32
31	84	---	e51	e47	---	128	---	1430	---	169	34	---
TOTAL	2735	1941	1738	1481	1114	3693	9294	39300	30396	7924	2333	1119
MEAN	88.2	64.7	56.1	47.8	39.8	119	310	1268	1013	256	75.3	37.3
MAX	124	80	66	51	45	271	1000	1870	1390	622	148	75
MIN	54	36	48	43	36	43	121	980	665	112	34	31
AC-FT	5420	3850	3450	2940	2210	7330	18430	77950	60290	15720	4630	2220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1998, BY WATER YEAR (WY)

MEAN	39.1	36.0	32.1	31.6	32.5	50.7	262	1092	956	163	39.8	29.6
MAX	91.8	77.8	59.4	74.5	59.5	139	842	2122	2231	519	97.3	80.5
(WY)	1962	1962	1983	1983	1962	1989	1974	1984	1983	1983	1945	1997
MIN	17.6	18.4	14.8	16.3	20.4	23.8	77.6	405	178	33.4	17.0	11.0
(WY)	1953	1959	1977	1945	1945	1977	1973	1977	1987	1977	1954	1944

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1944 - 1998	
ANNUAL TOTAL	119672		103068			
ANNUAL MEAN	328		282		231	
HIGHEST ANNUAL MEAN					423	1984
LOWEST ANNUAL MEAN					86.6	1977
HIGHEST DAILY MEAN	2640	Jun 2	1870	May 21	3960	May 24 1984
LOWEST DAILY MEAN	32	Sep 10	a31	Sep 6	4.2	Sep 9 1988
ANNUAL SEVEN-DAY MINIMUM	36	Feb 27	31	Sep 5	6.2	Sep 4 1988
INSTANTANEOUS PEAK FLOW			2120	May 20	4780	May 23 1984
INSTANTANEOUS PEAK STAGE			6.93	May 20	b8.78	May 23 1994
ANNUAL RUNOFF (AC-FT)	23400		204400		167300	
10 PERCENT EXCEEDS	1330		1100		831	
50 PERCENT EXCEEDS	75		75		40	
90 PERCENT EXCEEDS	39		38		21	

e-Estimated.
a-Also occurred Sep 7-11.
b-Maximum gage height, 8.95 ft, Apr 25, 1974.

09255000 SLATER FORK NEAR SLATER, CO

LOCATION.--Lat 40°58'57", long 107°22'56", in SW¼NE¼ sec.21, T.12 N., R.89 W., Moffat County, Hydrologic Unit 14050003, on right bank 15 ft downstream from highway bridge, 1.0 mi upstream from mouth, and 1.5 mi south of Slater.

DRAINAGE AREA.--161 mi^2.

PERIOD OF RECORD.--May to October, December 1910, March to October 1911, and April to May 1912 (published as Slater Creek), July 1931 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 618: 1910-11. WSP 764: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,600 ft above sea level, from river-profile map. May 28, 1910 to May 25, 1912, nonrecording gage at site 1.5 mi upstream at different datum. July 9, 1931 to May 6, 1932, nonrecording gage at site 0.2 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 500 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	38	e26	e25	e25	e25	60	629	448	160	39	6.5
2	26	31	27	e25	e26	e27	74	651	451	149	27	6.0
3	43	33	27	e25	e26	e29	72	682	435	130	25	6.9
4	42	36	27	e25	e26	30	76	718	422	118	24	7.3
5	30	32	27	e25	e26	39	77	724	368	114	24	6.8
6	26	32	26	e26	e26	87	75	676	264	99	21	6.8
7	26	34	26	27	e25	91	71	686	236	87	17	7.1
8	49	34	e26	e27	e25	78	64	661	261	e76	15	7.0
9	47	35	e26	e27	e25	113	68	622	275	e62	15	6.7
10	44	33	26	e27	e24	108	69	671	310	e57	16	6.4
11	48	35	22	e27	e23	116	89	e620	247	e53	16	6.9
12	56	34	22	e26	e25	146	134	e570	227	e48	13	16
13	47	34	26	e26	e24	177	104	e520	232	e44	13	23
14	44	26	e27	e26	e25	225	88	493	258	e39	13	15
15	53	24	e27	e27	e25	251	77	406	245	e35	12	11
16	55	24	e27	e27	e26	261	76	405	269	e30	11	9.5
17	50	e25	e27	e27	e25	264	75	480	467	e26	12	8.7
18	47	e25	e26	e27	e25	239	75	547	493	e24	10	7.9
19	42	e26	e27	e27	e24	226	74	572	462	e22	11	6.8
20	39	e26	27	e27	e24	232	76	600	396	e20	11	7.0
21	38	e26	28	e27	e24	245	84	728	324	18	11	7.3
22	38	e25	e27	e25	e25	254	128	639	301	18	12	7.5
23	38	e25	27	e25	e24	e230	214	484	292	26	11	8.2
24	43	e25	28	e26	e25	e210	304	414	258	28	8.9	9.4
25	37	e24	e27	e26	e25	e190	294	408	221	32	10	9.1
26	32	e25	e26	e25	e24	e170	298	448	220	44	11	8.3
27	42	e25	e26	e26	e24	115	328	473	198	29	13	7.7
28	42	e26	e25	e25	e24	95	365	517	180	24	12	8.4
29	42	e25	e26	e25	---	75	415	521	171	48	11	8.5
30	42	e26	e26	e25	---	65	524	505	171	64	8.5	8.8
31	41	---	e25	e26	---	62	---	482	---	50	7.2	---
TOTAL	1276	869	813	807	695	4475	4528	17552	9102	1774	460.6	262.5
MEAN	41.2	29.0	26.2	26.0	24.8	144	151	566	303	57.2	14.9	8.75
MAX	56	38	28	27	26	264	524	728	493	160	39	23
MIN	26	24	22	25	23	25	60	405	171	18	7.2	6.0
AC-FT	2530	1720	1610	1600	1380	8880	8980	34810	18050	3520	914	521

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1998, BY WATER YEAR (WY)

MEAN	20.1	19.2	17.4	17.1	18.5	29.6	118	382	256	38.8	10.0	11.6
MAX	62.4	49.2	44.1	36.9	46.5	144	323	801	660	189	38.4	55.0
(WY)	1986	1985	1985	1985	1986	1998	1985	1984	1995	1983	1945	1984
MIN	7.29	7.73	7.30	4.42	9.82	12.6	25.2	45.7	23.6	1.27	1.39	3.20
(WY)	1934	1934	1932	1992	1981	1965	1933	1934	1977	1977	1994	1960

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1932 - 1998	
ANNUAL TOTAL	45418		42614.1			
ANNUAL MEAN	124		117		78.4	
HIGHEST ANNUAL MEAN					157	1984
LOWEST ANNUAL MEAN					20.5	1934
HIGHEST DAILY MEAN	937	Jun 2	728	May 21	1500	May 16 1984
LOWEST DAILY MEAN	a11	Sep 4	6.0	Sep 2	b.00	Aug 2 1934
ANNUAL SEVEN-DAY MINIMUM	11	Sep 2	6.8	Sep 1	.00	Aug 2 1934
INSTANTANEOUS PEAK FLOW			872	May 5	c2250	May 16 1984
INSTANTANEOUS PEAK STAGE			7.84	May 5	d11.78	May 16 1984
ANNUAL RUNOFF (AC-FT)	90090		84530		56770	
10 PERCENT EXCEEDS	506		414		255	
50 PERCENT EXCEEDS	27		29		20	
90 PERCENT EXCEEDS	18		11		7.1	

e-Estimated.
a-Also occurred Sep 5, and 7-8.
b-Also occurred several days during years 1936, 1954, and 1977.
c-From rating curve extended above 1000 ft^3/s.
d-From floodmark.

09259050 LITTLE SNAKE RIVER BELOW BAGGS, WY

WATER QUALITY RECORDS

LOCATION.--Lat 41°01'43", long 107°41'14", in SE¼NW¼NW¼ sec.7, T.12 N., R.92 W., Carbon County, Hydrologic Unit 14050003, 0.8 mi downstream from Ledford Slough, 1.5 mi southwest of Baggs, and 3.5 mi downstream from bridge on State Highway 789 in Baggs.

PERIOD OF RECORD.--Water years 1981 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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)	TEMPER-ATURE AIR (DEG C) (00020)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
APR									
28...	1300	2260	220	8.2	7.0	19.0	610	10.0	103
JUN									
02...	1200	2750	97.0	8.0	11.0	24.0	608	9.3	106
JUL									
13...	1300	370	187	8.4	21.0	30.0	612	7.8	110
AUG									
24...	1245	20	380	8.8	25.0	25.0	612	12.8	195

DATE	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 TIT 4.5 LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
APR								
28...	94	27	6.7	8.0	0.4	1.9	87	26
JUN								
02...	39	11	2.7	3.5	0.2	0.9	41	7.3
JUL								
13...	80	23	5.6	8.1	0.4	1.2	82	12
AUG								
24...	140	37	12	25	0.9	2.6	155	36

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)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR								
28...	2.1	0.1	13	137	0.19	836	625	3810
JUN								
02...	0.7	<0.1	11	62	0.08	457	172	1280
JUL								
13...	1.8	0.1	13	114	0.15	114	19	19
AUG								
24...	5.9	0.3	6.9	220	0.30	12.0	11	0.57

09260000 LITTLE SNAKE RIVER NEAR LILY, CO

LOCATION.--Lat 40°32'50", long 108°25'25", in NW¼NE¼ sec.20, T.7 N., R.98 W., Moffat County, Hydrologic Unit 14050003, on left bank 170 ft downstream from highway bridge, 6.0 mi north of Lily, and 10 mi upstream from mouth.

DRAINAGE AREA.--3,730 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June to August 1904 (published as "near Maybell"), October 1921 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1713: 1959.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,685 ft above sea level, from river-profile map. June 9 to Aug. 14, 1904, nonrecording gage, and May 5, 1922 to Nov. 30, 1935, water-stage recorder, at site 300 ft upstream at different datums.

REMARKS.--Records poor except for May 8-20 and July 28 to Sept. 30, which are fair. Diversions for irrigation of about 21,000 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	368	297	e170	e140	e160	e100	830	2510	2810	1280	938	23
2	352	294	e160	e190	e200	e110	784	2740	2710	1170	668	21
3	352	293	e110	e180	e200	e190	737	3020	2600	1120	397	20
4	339	293	e120	e170	e190	e120	724	3150	2510	1050	317	20
5	326	280	e110	e150	e230	e100	685	3270	2400	989	269	19
6	340	277	e180	e48	e190	e130	680	3280	2330	e960	263	17
7	340	290	e180	e46	e240	e100	672	3340	2120	e860	240	15
8	340	285	e190	e110	e220	e78	688	3340	1940	e780	221	14
9	319	284	e170	e72	e180	e120	611	3370	1820	e730	195	14
10	307	283	e110	e190	e140	280	595	3340	1770	e710	169	14
11	324	276	e58	e250	e150	297	601	3340	1710	e700	155	13
12	326	311	e54	e180	e130	340	606	3400	1610	e660	156	17
13	321	286	e54	e140	e140	381	680	3300	1470	e600	153	21
14	319	e140	e58	e120	e210	412	761	3200	1380	e560	145	21
15	318	e66	e110	e150	e210	499	784	3250	1430	e520	134	20
16	310	e74	e140	e84	e200	585	727	3200	2130	e480	170	15
17	300	e140	e120	e200	e180	584	686	3110	2890	e440	116	13
18	307	e140	e150	e190	e170	586	704	3140	4370	e400	111	13
19	306	e170	e96	e180	e150	541	682	3230	4080	e380	91	14
20	297	e180	e82	e170	e130	529	664	3300	3650	e367	78	17
21	295	e180	e90	e120	e150	532	664	3340	3260	e320	79	13
22	290	e150	e86	e100	e160	538	696	3470	2960	e278	78	16
23	285	e160	e64	e110	e150	638	821	3540	2720	e248	76	21
24	292	e130	e84	e180	e200	674	1160	3320	2510	e245	70	22
25	266	e190	e68	e150	e170	923	1550	3180	2290	e252	62	22
26	273	e180	e70	e120	e120	1140	1760	3100	2070	e311	53	31
27	299	e160	e68	e150	e120	1180	1970	3060	1870	e385	50	24
28	291	e140	e96	e120	e110	998	2050	2800	1730	451	45	24
29	276	e160	e140	e110	---	978	2280	2510	1550	395	43	29
30	290	e180	e130	e180	---	987	2300	2600	1430	347	35	35
31	296	---	e100	e170	---	864	---	2720	---	765	28	---
TOTAL	9664	6289	3418	4470	4800	15534	29152	97470	70120	18753	5605	578
MEAN	312	210	110	144	171	501	972	3144	2337	605	181	19.3
MAX	368	311	190	250	240	1180	2300	3540	4370	1280	938	35
MIN	266	66	54	46	110	78	595	2510	1380	245	28	13
AC-FT	19170	12470	6780	8870	9520	30810	57820	193300	139100	37200	11120	1150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1998, BY WATER YEAR (WY)

MEAN	115	122	98.3	90.1	123	381	1074	2591	1911	309	71.1	55.6
MAX	385	363	244	205	595	1260	3259	5970	4601	1395	534	314
(WY)	1926	1928	1928	1932	1986	1962	1952	1984	1983	1995	1941	1965
MIN	.000	.000	25.0	16.0	18.0	80.5	320	477	36.7	.29	.000	.000
(WY)	1935	1935	1931	1933	1933	1964	1961	1934	1934	1934	1924	1934

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1922 - 1998	
ANNUAL TOTAL	340040		265853			
ANNUAL MEAN	932		728		580	
HIGHEST ANNUAL MEAN					1252	1984
LOWEST ANNUAL MEAN					110	1934
HIGHEST DAILY MEAN	5020	Jun 4	4370	Jun 18	13400	May 18 1984
LOWEST DAILY MEAN	e,a54	Dec 12	b13	Sep 11	c.00	Jul 30 1924
ANNUAL SEVEN-DAY MINIMUM	76	Dec 21	14	Sep 16	.00	Jul 30 1924
INSTANTANEOUS PEAK FLOW			4730	Jun 18	16700	May 18 1984
INSTANTANEOUS PEAK STAGE			5.74	Jun 18	d9.85	May 18 1984
ANNUAL RUNOFF (AC-FT)	674500		527300		419900	
10 PERCENT EXCEEDS	4030		2710		1960	
50 PERCENT EXCEEDS	290		280		128	
90 PERCENT EXCEEDS	96		49		12	

e-Estimated.
a-Also occurred Dec 13.
b-Also occurred Sep 17-18, 21.
c-Also occurred Jul 31 to Sep 11, Sep 13-20, 1924, Aug 25-29, Aug 31 to Sep 13, and Sep 28-29, 1994.
d-Maximum gage height, 11.10 ft, Feb 13, 1962, backwater from ice.

09260000 LITTLE SNAKE RIVER NEAR LILY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1969 to September 1986, October 1994 to September 1998 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1975 to September 1985.
WATER TEMPERATURES: 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 is available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,020 microsiemens Oct. 11, 1977; minimum, 110 microsiemens June 1, 1985.
WATER TEMPERATURE: Maximum, 32.0°C Aug. 6, 1981; minimum, freezing point on many days during winter months each year.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN 0.062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN 0.125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN 0.250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN 0.500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SED. SUSP. SIEVE DIAM. % FINER THAN 0.062 MM (70331)
OCT												
21...	1155	7.5	288	391	365	284	--	--	--	--	--	57
DEC												
15...	1115	0.0	82	658	62	14	--	--	--	--	--	31
MAR												
06...	1210	2.0	182	584	260	128	--	--	--	--	--	48
APR												
01...	1430	9.0	833	600	1200	2700	95	98	100	--	--	--
09...	1755	11.0	587	566	550	872	61	66	87	99	--	--
22...	0835	9.0	675	480	622	1130	41	48	73	98	99	--
27...	0950	9.0	1850	258	1200	5990	94	99	100	--	--	--
MAY												
07...	1800	12.0	3270	162	1240	10900	60	80	98	100	--	--
20...	1315	15.0	3450	154	1040	9690	55	75	91	98	99	--
29...	1230	16.5	2490	145	403	2710	69	88	98	100	--	--
JUN												
01...	1310	--	2920	--	773	6090	40	57	71	90	96	--
11...	1440	17.0	1710	189	549	2530	31	43	70	97	99	--
15...	1010	14.0	1320	217	2190	7810	8	10	21	46	100	--
19...	1450	13.0	3900	318	4280	45100	78	94	99	100	--	--
JUL												
01...	1040	21.0	1270	195	476	1630	23	29	61	89	100	--
06...	1100	23.5	950	230	111	285	85	95	100	--	--	--
09...	1400	26.0	749	248	2830	5720	5	16	54	100	--	--
AUG												
19...	0935	18.0	96	597	669	173	--	--	--	--	--	91

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
SEP				
01...	1110	24	814	17.5

09260050 YAMPA RIVER AT DEERLODGE PARK, CO

LOCATION.--Lat 40°27'06", long 108°31'28", in SE¼SW¼ 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 mi^2, 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1670	1300	897	788	799	732	4190	10400	11000	5700	2090	314
2	1490	1280	820	800	756	703	3750	11300	10600	5440	1990	297
3	1740	1250	779	809	732	761	3810	11400	10600	5050	1600	275
4	1710	1190	612	824	761	816	3900	12100	10800	4730	1370	285
5	1800	1120	459	843	707	780	4270	13200	10700	4300	1180	297
6	1600	1140	492	e720	787	786	4580	13300	10200	4000	1090	269
7	1450	1100	642	e680	782	661	4600	12500	8840	3760	1040	237
8	1390	1080	749	e500	843	710	4140	11800	7740	3450	956	224
9	1280	1070	816	e510	837	756	3820	11800	7510	3050	841	210
10	1290	1080	699	e620	820	723	3650	11300	7570	2730	769	222
11	1300	1080	564	e600	764	740	3650	11200	7410	2590	731	205
12	1380	1120	e440	694	804	873	4110	12100	7360	2540	691	216
13	1430	1090	e390	729	746	1030	6220	11100	6820	2420	629	213
14	1550	1040	e400	816	700	1240	6420	10500	6560	2210	582	209
15	1470	856	e450	771	711	1510	5510	10900	6320	1980	559	354
16	1410	649	e520	707	714	2190	5080	10200	6920	1810	543	411
17	1410	596	e580	682	756	2240	4640	9340	6710	1610	485	382
18	1440	716	e640	728	729	2370	4670	9560	10700	1430	480	353
19	1470	928	e660	798	750	2160	4410	10500	10400	1320	465	329
20	1450	952	e640	797	728	2070	4220	11300	9430	1210	416	308
21	1400	965	e600	825	781	1860	3870	12000	8590	1100	445	299
22	1340	1010	e540	804	787	1730	4050	13200	8100	993	508	285
23	1300	905	e560	711	737	2000	4560	13900	7950	935	446	278
24	1300	836	e590	746	788	2400	5710	11900	7830	954	447	290
25	1280	828	e480	742	822	4590	7810	10400	7490	1050	439	293
26	1270	915	e530	814	851	9300	8750	9690	6960	1100	397	294
27	1220	980	e540	800	855	11100	8780	9640	6690	1300	369	288
28	1200	998	e520	826	755	8470	8690	9890	6660	1580	350	275
29	1180	957	e540	808	---	7800	9050	10400	6390	1450	338	268
30	1260	916	656	774	---	7060	9520	10800	5960	1330	344	277
31	1290	---	707	737	---	5070	---	11000	---	1760	346	---
TOTAL	43770	29947	18512	23003	21602	85231	160430	348620	246810	74882	22936	8457
MEAN	1412	998	597	742	772	2749	5348	11250	8227	2416	740	282
MAX	1800	1300	897	843	855	11100	9520	13900	11000	5700	2090	411
MIN	1180	596	390	500	700	661	3650	9340	5960	935	338	205
AC-FT	86820	59400	36720	45630	42850	169100	318200	691500	489500	148500	45490	16770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1998, BY WATER YEAR (WY)

MEAN	633	646	465	440	597	1558	3909	8745	7554	1874	576	419
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	653	1965	3120	2117	202	66.6	66.4
(WY)	1990	1990	1990	1989	1989	1988	1992	1990	1992	1994	1994	1994

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1983 - 1998	
ANNUAL TOTAL	1223714		1084200			
ANNUAL MEAN	3353		2970		2288	
HIGHEST ANNUAL MEAN					4286	1984
LOWEST ANNUAL MEAN					1062	1992
HIGHEST DAILY MEAN	20200	Jun 5	13900	May 23	32300	May 18 1984
LOWEST DAILY MEAN	e390	Dec 13	205	Sep 11	29	Sep 11 1989
ANNUAL SEVEN-DAY MINIMUM	431	Sep 8	214	Sep 8	36	Sep 5 1989
INSTANTANEOUS PEAK FLOW			14100	May 22	33200	May 18 1984
INSTANTANEOUS PEAK STAGE			10.62	May 22	19.13	May 18 1984
ANNUAL RUNOFF (AC-FT)	2427000		2151000		1658000	
10 PERCENT EXCEEDS	11400		9770		6920	
50 PERCENT EXCEEDS	1250		1080		712	
90 PERCENT EXCEEDS	529		399		230	

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 (revised), 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.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1040 microsiemens Oct. 4, 1979; minimum, 64 microsiemens July 13, 1978.
WATER TEMPERATURE: Maximum, 29.5°C Aug. 2, 1980; minimum, 0.0°C on many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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 WHOLE TOTAL UREASE (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)
NOV											
17...	1110	630	635	8.4	0.5	11.5	52	35	220	46	26
JAN											
13...	1240	713	626	8.1	0.5	--	--	--	--	--	--
FEB											
26...	1415	780	853	8.4	0.0	--	--	--	--	--	--
MAR											
12...	1520	859	869	8.4	6.0	--	--	--	--	--	--
18...	1335	2450	840	8.2	1.0	11.2	--	--	--	--	--
26...	1615	10100	626	8.0	--	--	--	--	--	--	--
APR											
02...	0930	3860	696	8.4	5.5	10.6	K7	K4	260	57	30
22...	1430	4250	674	8.4	12.5	--	--	--	--	--	--
MAY											
19...	1125	10400	263	8.3	13.0	--	--	--	--	--	--
JUN											
02...	1005	10600	173	8.0	14.0	8.8	200	46	70	18	6.2
JUL											
22...	1310	992	381	8.5	--	--	--	--	--	--	--
SEP											
09...	1100	210	651	8.4	21.0	7.1	48	40	230	48	26

DATE	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)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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)
NOV											
17...	44	1	1.7	160	1	133	--	150	15	0.2	7.0
JAN											
13...	--	--	--	--	--	--	--	--	--	--	--
FEB											
26...	--	--	--	--	--	--	--	--	--	--	--
MAR											
12...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
APR											
02...	56	1	3.0	--	--	--	157	200	14	0.2	11
22...	--	--	--	--	--	--	--	--	--	--	--
MAY											
19...	--	--	--	--	--	--	--	--	--	--	--
JUN											
02...	7.2	0.4	0.9	66	--	54	--	26	1.4	<0.1	9.2
JUL											
22...	--	--	--	--	--	--	--	--	--	--	--
SEP											
09...	50	1	3.0	167	3	142	--	140	21	0.2	7.0

K-Based on non-ideal colony count.

09260050 YAMPA RIVER AT DEERLODGE PARK, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
NOV											
17...	373	0.51	635	<0.01	0.06	<0.02	0.2	0.2	0.02	0.01	<0.01
JAN											
13...	--	--	--	--	--	--	--	--	--	--	--
FEB											
26...	--	--	--	--	--	--	--	--	--	--	--
MAR											
12...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
APR											
02...	468	0.64	4880	0.01	0.47	0.08	1.0	0.3	0.47	0.04	0.04
22...	--	--	--	--	--	--	--	--	--	--	--
MAY											
19...	--	--	--	--	--	--	--	--	--	--	--
JUN											
02...	101	0.14	2890	<0.01	0.05	<0.02	0.5	0.2	0.25	<0.01	<0.01
JUL											
22...	--	--	--	--	--	--	--	--	--	--	--
SEP											
09...	380	0.52	215	<0.01	<0.05	<0.02	0.3	0.2	0.04	<0.01	0.01

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, TOTAL (UG/L AS SE) (01147)	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											
17...	<1	4	300	<1	20	13	<0.1	--	2	<0.2	3
JAN											
13...	--	--	--	--	--	--	--	2	2	--	--
FEB											
26...	--	--	--	--	--	--	--	3	3	--	--
MAR											
12...	--	--	--	--	--	--	--	3	4	--	--
18...	--	--	--	--	--	--	--	3	3	--	--
26...	--	--	--	--	--	--	--	7	3	--	--
APR											
02...	<1	1	6500	<1	200	7	<0.1	4	3	<0.2	<20
22...	--	--	--	--	--	--	--	4	3	--	--
MAY											
19...	--	--	--	--	--	--	--	1	<1	--	--
JUN											
02...	<1	<1	3100	<1	100	<4	<0.1	--	<1	<0.2	<20
JUL											
22...	--	--	--	--	--	--	--	<1	<1	--	--
SEP											
09...	<1	<1	90	<1	30	<4	<0.1	<1	<1	<0.2	<20

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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				
16...	0945	534	684	0.0

09260050 YAMPA RIVER AT DEERLODGE PARK, CO--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 0.062 MM (70331)
NOV					
17...	1110	630	38	65	76
MAR					
05...	1600	661	151	269	90
MAY					
06...	1235	13400	1320	47800	68
19...	1125	10400	609	17100	59
27...	1215	9650	1440	37500	86
JUN					
02...	1005	10600	386	11000	56
03...	1055	10600	347	9930	51
10...	1430	7530	279	5670	57
17...	1500	6580	1480	26300	82
JUL					
01...	1525	5890	296	4710	31
SEP					
09...	1100	210	12	6.7	--

BEDLOAD SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	TEMPER-ATURE WATER (DEG C) (00010)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	SEDI-MENT DIS-CHARGE, BEDLOAD (TONS/ DAY) (80225)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 0.062 MM (80226)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 0.125 MM (80227)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 0.250 MM (80228)
MAY								
06...	1235	10.0	13400	290	497	--	1	11
19...	1125	13.0	10400	263	2200	--	--	3
27...	1215	12.0	9650	--	883	--	--	2
JUN								
02...	1005	14.0	10600	173	2570	--	--	1
03...	1055	--	10600	--	3110	--	--	--
10...	1430	14.5	7530	235	1060	--	--	2
17...	1500	13.5	6580	221	1030	--	--	2
JUL								
01...	1525	21.5	5890	189	966	--	--	3

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 0.500 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)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM (80234)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM (80235)
MAY							
06...	54	86	96	98	99	100	--
19...	50	82	95	99	100	--	--
27...	29	72	89	95	96	97	100
JUN							
02...	21	64	89	96	98	100	--
03...	16	56	78	85	87	89	100
10...	39	80	95	99	100	--	--
17...	31	62	74	77	79	99	100
JUL							
01...	37	78	95	99	100	--	--

09303000 NORTH FORK WHITE RIVER AT BUFORD, CO

LOCATION.--Lat 39°59'15", long 107°36'50", in NW¼NW¼ 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 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1910 to December 1915, July 1919 to December 1920, October 1951 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as North Fork White River near Buford prior to 1951 and as White River at Buford 1951-67. Records for July 1903 to December 1906 at site 6.5 mi upstream not equivalent because of inflow between sites.

REVISED RECORDS.--WSP 1343: 1912. WDR CO-89-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,010 ft above sea level, from topographic map. May 24, 1910 to May 27, 1914, nonrecording gage at site 1.5 mi upstream at different datum. May 28, 1914 to Dec. 7, 1915, and July 1, 1919 to Oct. 9, 1920, nonrecording gage at present site at different datum.

REMARKS.--No estimated daily discharges. Records good. Diversions upstream from station for irrigation of about 900 acres, and 300 acres downstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	351	300	243	245	195	186	244	934	1140	866	389	257
2	343	288	242	223	200	191	253	969	1170	810	363	259
3	435	280	238	215	198	189	246	1130	1160	760	353	249
4	377	284	227	204	196	189	247	1220	1150	713	351	245
5	351	277	238	207	199	186	245	1190	1090	663	341	241
6	342	273	247	201	198	189	251	1070	952	632	330	243
7	335	271	234	193	197	187	247	1010	891	592	316	243
8	372	270	239	216	197	181	244	1030	898	577	305	242
9	360	272	241	204	202	189	242	1010	843	559	317	238
10	380	271	231	223	195	185	243	1120	834	592	310	235
11	386	284	209	221	193	185	270	1180	815	583	300	240
12	385	276	204	209	197	186	313	1030	788	541	293	276
13	367	271	218	206	197	188	298	1150	792	505	289	258
14	364	258	237	202	196	192	287	1190	800	482	286	247
15	376	209	257	205	195	197	280	979	772	457	285	241
16	375	237	237	207	196	199	284	953	762	445	282	240
17	364	280	258	210	193	202	274	1070	969	429	276	235
18	355	263	256	206	192	205	266	1230	969	415	275	231
19	345	254	221	209	190	196	264	1310	956	409	281	227
20	338	262	212	205	189	194	268	1460	910	396	277	226
21	330	257	223	203	193	196	284	1620	881	383	286	227
22	323	258	223	194	190	199	333	1420	889	385	295	226
23	320	253	215	205	192	209	422	1160	898	417	281	240
24	333	250	211	215	193	243	537	1070	887	381	284	237
25	319	250	206	202	195	291	560	1010	854	416	274	227
26	303	249	197	200	190	319	558	1040	885	391	280	222
27	311	257	180	207	186	308	566	1090	941	378	293	220
28	317	252	211	199	185	288	641	1170	952	398	268	218
29	312	245	266	199	---	270	724	1190	932	555	260	214
30	313	244	244	200	---	253	847	1190	904	448	253	223
31	313	---	250	197	---	252	---	1170	---	400	251	---
TOTAL	10795	7895	7115	6432	5439	6644	10738	35365	27684	15978	9244	7127
MEAN	348	263	230	207	194	214	358	1141	923	515	298	238
MAX	435	300	266	245	202	319	847	1620	1170	866	389	276
MIN	303	209	180	193	185	181	242	934	762	378	251	214
AC-FT	21410	15660	14110	12760	10790	13180	21300	70150	54910	31690	18340	14140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1998, BY WATER YEAR (WY)

MEAN	201	185	170	163	157	161	278	782	855	402	248	209
MAX	348	273	257	234	240	237	584	1749	1618	1131	447	384
(WY)	1998	1985	1985	1985	1985	1985	1985	1985	1984	1957	1984	1997
MIN	122	112	122	118	116	125	168	282	217	116	127	114
(WY)	1978	1978	1964	1964	1977	1973	1920	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1910 - 1998	
ANNUAL TOTAL	153699		150456			
ANNUAL MEAN	421		412		318	
HIGHEST ANNUAL MEAN					523	1984
LOWEST ANNUAL MEAN					157	1977
HIGHEST DAILY MEAN	1530	Jun 3	1620	May 21	3150	May 30 1912
LOWEST DAILY MEAN	154	Feb 22	180	Dec 27	90	Feb 21 1955
ANNUAL SEVEN-DAY MINIMUM	158	Mar 3	186	Mar 7	106	Jul 26 1977
INSTANTANEOUS PEAK FLOW			1770	May 21	3550	May 24 1984
INSTANTANEOUS PEAK STAGE			6.03	May 21	a6.76	May 24 1984
ANNUAL RUNOFF (AC-FT)	304900		298400		230500	
10 PERCENT EXCEEDS	1080		961		740	
50 PERCENT EXCEEDS	302		271		197	
90 PERCENT EXCEEDS	167		196		141	

a-Maximum gage height, 7.22 ft, Jan 9, 1961, backwater from ice.

09303000 NORTH FORK WHITE RIVER AT BUFORD, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to December 1978 (Revised), October 1982 to September 1992. October 1994 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
DEC										
22...	1300	242	313	8.3	0.0	10.7	0.5	K20	--	--
MAY										
04...	1030	1090	232	7.9	7.0	11.3	0.5	K5	--	--
JUN										
08...	0930	899	192	8.2	6.5	10.2	0.8	K11	91	27
JUL										
28...	1100	372	266	8.4	14.0	8.0	0.8	31	--	--
AUG										
12...	1300	295	314	7.9	13.5	8.7	1.0	31	140	41

DATE	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)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
DEC									
22...	--	<0.01	0.13	<0.02	<0.1	<0.1	0.02	0.01	0.01
MAY									
04...	--	<0.01	0.22	0.03	0.5	0.2	0.10	<0.01	0.01
JUN									
08...	5.7	0.02	0.08	0.04	0.3	0.1	0.03	<0.01	<0.01
JUL									
28...	--	<0.01	0.06	<0.02	0.1	<0.1	0.01	<0.01	0.02
AUG									
12...	8.2	0.01	<0.05	0.03	<0.1	<0.1	<0.01	<0.01	0.02

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	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)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
JUN										
08...	350	<10	<1	<100	<10	<16	<1	<1	<1	1
AUG										
12...	30	<10	<1	<100	<10	<16	<1	<1	<1	<1

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI) (01132)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
JUN									
08...	450	<1	<10	20	<1	1	<1	250	<10
AUG									
12...	50	<1	<10	<10	1	<1	<1	430	<10

K-Based on non-ideal colony count.

09303000 NORTH FORK WHITE RIVER AT BUFORD, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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				
14...	1535	364	279	6.5
NOV				
14...	0835	251	304	0.0
JAN				
12...	1310	217	315	0.5
FEB				
19...	1130	181	336	0.5
APR				
07...	1145	252	340	3.5
MAY				
28...	1120	1060	190	8.0
JUN				
12...	1035	771	215	7.0
AUG				
20...	1425	285	296	15.5
SEP				
23...	1310	257	308	9.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
DEC				
22...	1300	242	4	2.7
MAY				
04...	1030	1090	109	320
JUN				
08...	0930	899	32	77
JUL				
28...	1100	372	8	8.3
AUG				
12...	1300	295	53	42

09304000 SOUTH FORK WHITE RIVER AT BUFORD, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°58'28", long 107°37'30", in NW¼NE¼ 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 mi^2.

PERIOD OF RECORD.--October 1976 to December 1978(revised), October 1984 to September 1992. October 1994 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
DEC								
18...	1630	118	260	8.4	0.0	10.9	0.4	K8
MAY								
04...	1200	431	254	8.2	7.0	10.9	0.4	K6
28...	1015	1160	221	8.1	6.5	10.9	0.4	46
JUL								
28...	1230	295	274	8.6	15.5	7.7	1.1	K17
AUG								
12...	1430	180	275	8.1	16.0	7.9	1.0	32

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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
DEC								
18...	<0.01	0.07	<0.02	0.2	<0.1	0.01	<0.01	0.01
MAY								
04...	<0.01	0.19	0.02	0.2	0.2	<0.01	<0.01	0.02
28...	0.02	0.13	0.04	0.1	<0.1	0.02	<0.01	0.01
JUL								
28...	<0.01	<0.05	<0.02	0.1	<0.1	0.02	<0.01	<0.01
AUG								
12...	<0.01	<0.05	0.03	0.1	0.1	<0.01	<0.01	0.02

K-Based on non-ideal colony count.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
DEC				
18...	1630	118	39	12
MAY				
04...	1200	431	35	41
28...	1015	1160	61	190
JUL				
28...	1230	295	11	8.8
AUG				
12...	1430	180	4	2.1

395650107435600 WHITE RIVER ABOVE DRY CREEK NR MEEKER, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°56'50", long 107°43'56", in SW¼SW¼ 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, Co.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.-- December 1997 to September 1998.

REMARKS.--December sample collected at site 2.4 mi upstream. Data merged with present site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
DEC										
22...	1500	429	310	8.4	0.0	11.3	0.6	K12	--	--
APR										
06...	1230	507	339	8.8	5.5	10.4	0.8	22	--	--
MAY										
28...	1245	2390	223	8.1	9.5	9.9	0.7	54	110	33
SEP										
02...	1005	533	322	8.3	10.5	9.2	1.0	K11	160	48

DATE	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)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
DEC									
22...	--	<0.01	0.10	<0.02	<0.1	<0.1	0.03	0.03	0.02
APR									
06...	--	0.01	0.08	0.02	0.1	<0.1	0.02	0.01	0.03
MAY									
28...	6.8	0.02	0.13	0.05	0.3	0.2	0.08	0.02	<0.01
SEP									
02...	9.3	<0.01	<0.05	0.02	<0.1	<0.1	0.01	<0.01	<0.01

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	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)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
MAY										
28...	520	<10	<1	<100	<10	<16	<1	1	<1	1
SEP										
02...	40	<10	<1	<100	<10	<16	<1	<1	<1	<1

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI) (01132)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
MAY									
28...	610	<1	<10	90	<1	2	<1	210	<10
SEP									
02...	70	<1	<10	10	<1	<1	<1	410	<10

K-Based on non-ideal colony count.

395650107435600 WHITE RIVER ABOVE DRY CREEK NR MEEKER, CO--Continued.

WATER-QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	ALDI-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)	ALDI-CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICA-RB SUL-FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	CAR-BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)	CARBO-FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	3HYDRXY CARBO-FURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	METHIO-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	METH-OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	PRO-PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)
APR											
06...	1230	<0.55	<0.1	<0.021	<0.008	<0.12	<0.014	<0.026	<0.017	<0.018	<0.035
MAY											
28...	1245	<0.55	<0.1	<0.021	<0.008	<0.12	<0.014	<0.026	<0.017	<0.018	<0.035
SEP											
02...	1005	<0.55	<0.1	<0.021	<0.008	<0.12	<0.014	<0.026	<0.017	<0.018	<0.035

DATE	PRO-POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	2,4-D, DIS-SOLVED (UG/L) (39732)	DICHLOR-PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	2,4,5-T DIS-SOLVED (UG/L) (39742)	SILVEX, DIS-SOLVED (UG/L) (39762)	TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)
APR										
06...	<0.035	<0.15	<0.032	<0.24	<0.17	<0.14	<0.035	<0.021	<0.25	<0.31
MAY										
28...	<0.035	<0.15	<0.032	<0.24	<0.17	<0.14	<0.035	<0.021	<0.25	<0.31
SEP										
02...	<0.035	<0.15	<0.032	<0.24	<0.17	<0.14	<0.035	<0.021	<0.25	<0.31

DATE	CHLORO-THALO-NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	DACTHAL MONO-ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DICHLO-BENIL, WATER, FLTRD, GF 0.7U REC (UG/L) (49303)	FEN-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	FLUO-METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	NEB-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	ACIFL-UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	BENTA-ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)
APR										
06...	<0.48	<0.017	<1.2	<0.013	<0.02	<0.035	<0.018	<0.015	<0.035	<0.014
MAY										
28...	<0.48	<0.017	<1.2	<0.013	<0.02	<0.035	<0.018	<0.015	<0.035	<0.014
SEP										
02...	<0.48	<0.017	<1.2	<0.013	<0.02	<0.035	<0.018	<0.015	<0.035	<0.014

DATE	BRO-MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	CHLOR-AMBEN, WATER, FLTRD, GF 0.7U REC (UG/L) (49307)	CLOPYR-ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)	NORFLUR-AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	PIC-LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	DNOC WAT,FLT GF 0.7U REC (UG/L) (49299)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	GLYPHO-SATE, WATER, UNFLTRD REC (UG/L) (39941)
APR										
06...	<0.035	<0.42	<0.23	<0.035	<0.035	<0.024	<0.05	<0.42	<0.035	--
MAY										
28...	<0.035	<0.42	<0.23	<0.035	<0.035	<0.024	<0.05	<0.42	<0.035	<10
SEP										
02...	<0.035	<0.42	<0.23	<0.035	<0.035	<0.024	<0.05	<0.42	<0.035	<5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR				
06...	1230	507	6	8.1
MAY				
28...	1245	2390	92	590
SEP				
02...	1005	533	6	8.5

09304200 WHITE RIVER ABOVE COAL CREEK NEAR MEEKER, CO

LOCATION.--Lat 40°00'18", long 107°49'29", in NW¼NW¼ 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.

DRAINAGE AREA.--648 mi^2.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,400 ft above sea level, from topographic map. Oct. 1, 1961 to Sept. 30, 1976, at site 76 ft upstream at datum 2.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversion upstream from station for irrigation of about 8,000 acres and about 4,000 acres downstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e569	527	454	431	369	350	467	1490	2790	1670	681	302
2	e552	512	459	433	382	385	494	1530	2840	1490	648	293
3	e726	495	449	437	389	375	482	1720	2940	1360	642	247
4	e663	512	403	418	384	380	476	1940	2930	1310	638	235
5	e613	496	437	417	388	364	471	2030	2550	1190	621	231
6	e588	490	453	419	382	382	483	1960	2090	1090	597	229
7	e600	488	440	373	380	379	480	1850	1870	1030	567	224
8	e667	489	447	427	379	341	479	1830	1840	995	553	198
9	e643	494	445	392	387	382	473	1800	1630	956	580	177
10	e642	498	437	407	364	356	465	1880	1670	974	551	170
11	e663	512	420	413	345	369	495	2140	1690	1080	485	182
12	e700	510	354	413	401	365	568	1910	1600	988	446	283
13	e652	501	388	416	364	370	562	2060	1660	913	435	277
14	e647	481	422	414	391	380	545	2320	1610	879	408	269
15	e668	407	442	390	381	386	535	1980	1530	863	395	267
16	e661	425	444	423	379	390	543	1800	1510	827	405	265
17	650	502	428	413	375	395	532	1930	2180	779	407	273
18	652	493	444	401	373	408	521	2170	2140	749	383	280
19	626	475	433	398	359	382	512	2310	2060	721	352	257
20	611	488	404	402	340	374	517	2600	1930	699	338	266
21	613	474	422	382	377	382	528	3010	1940	662	349	278
22	590	480	438	355	368	391	579	2920	2110	660	365	284
23	586	459	418	444	369	404	678	2560	2230	696	342	305
24	603	472	388	409	370	454	846	e2400	2180	664	335	333
25	588	467	391	406	381	531	886	e2300	1920	728	331	321
26	557	466	370	388	367	585	882	e2200	1940	712	341	317
27	571	480	359	389	367	572	875	2290	2060	688	349	316
28	556	463	432	385	351	550	962	2540	2030	687	321	315
29	545	446	474	378	---	515	1110	2770	1900	851	306	324
30	542	446	470	391	---	478	1340	2840	1830	797	299	372
31	540	---	441	386	---	492	---	2840	---	709	294	---
TOTAL	19084	14448	13206	12550	10462	12867	18786	67920	61200	28417	13764	8090
MEAN	616	482	426	405	374	415	626	2191	2040	917	444	270
MAX	726	527	474	444	401	585	1340	3010	2940	1670	681	372
MIN	540	407	354	355	340	341	465	1490	1510	660	294	170
AC-FT	37850	28660	26190	24890	20750	25520	37260	134700	121400	56370	27300	16050

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1998, BY WATER YEAR (WY)

MEAN	354	339	304	290	284	304	511	1530	1793	604	302	265
MAX	616	488	426	405	387	448	1034	2785	3526	1924	759	586
(WY)	1998	1987	1998	1998	1986	1986	1985	1985	1984	1995	1984	1997
MIN	141	229	184	181	208	225	319	397	195	29.3	42.4	71.7
(WY)	1978	1978	1977	1977	1978	1977	1991	1977	1977	1977	1994	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1962 - 1998	
ANNUAL TOTAL	283199		280794			
ANNUAL MEAN	776		769		574	
HIGHEST ANNUAL MEAN					966	1984
LOWEST ANNUAL MEAN					208	1977
HIGHEST DAILY MEAN	3690	Jun 3	3010	May 21	5360	Jun 26 1983
LOWEST DAILY MEAN	233	Jan 7	170	Sep 10	a6.5	Jul 19 1977
ANNUAL SEVEN-DAY MINIMUM	270	Mar 5	202	Sep 5	8.8	Jul 16 1977
INSTANTANEOUS PEAK FLOW			3250	May 22	5740	Jun 26 1983
INSTANTANEOUS PEAK STAGE			5.49	May 22	7.07	Jun 26 1983
ANNUAL RUNOFF (AC-FT)	561700		557000		415700	
10 PERCENT EXCEEDS	2240		1940		1430	
50 PERCENT EXCEEDS	466		480		330	
90 PERCENT EXCEEDS	289		339		217	

e-Estimated.
a-Also occurred Jul 20-21, 1977.

09304200 WHITE RIVER ABOVE COAL CREEK NEAR MEEKER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1973 to June 1975 (revised), 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 (revised), July 1978 to September 1984.
WATER TEMPERATURE: March 1973 to September 1975 (revised), 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.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 511 microsiemens Dec. 24, 1981; minimum 152 microsiemens June 14, 1980.
WATER TEMPERATURE: Maximum, 22.0°C July 8, 1981; minimum, 0.0°C on many days during winter months.

EXTREME OUTSIDE PERIOD OF DAILY RECORD.--A specific conductance of 544 microsiemens was measured Sept. 5, 1990.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
DEC										
18...	1400	459	369	8.7	0.5	10.8	0.4	K15	--	--
MAY										
04...	1500	1770	291	8.0	8.0	11.2	0.7	310	--	--
JUN										
08...	1230	1910	250	8.2	8.5	9.8	0.7	54	130	38
JUL										
29...	1400	844	316	8.4	14.0	8.1	1.1	35	--	--
AUG										
12...	1600	445	361	8.2	17.5	8.2	1.5	48	180	54

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	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)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
DEC										
18...	--	--	<0.01	<0.05	<0.02	0.1	<0.1	<0.01	<0.01	0.01
MAY										
04...	--	--	<0.01	0.21	0.03	0.5	0.2	0.08	<0.01	0.01
JUN										
08...	7.4	1.0	0.02	0.10	0.03	0.1	0.1	0.07	<0.01	0.01
JUL										
29...	--	--	<0.01	0.06	<0.02	0.3	<0.1	0.06	<0.01	<0.01
AUG										
12...	10	1.3	<0.01	<0.05	0.03	0.1	0.1	0.02	<0.01	0.02

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	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)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
JUN										
08...	450	<10	<1	<100	<10	<16	<1	<1	<1	2
AUG										
12...	20	<10	<1	200	<10	<16	<1	<1	<1	<1

K-Based on non-ideal colony count.

09304200 WHITE RIVER ABOVE COAL CREEK NEAR MEEKER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI) (01132)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
JUN									
08...	560	<1	<10	20	<1	1	<1	270	<10
AUG									
12...	30	<1	<10	<10	2	<1	<1	470	<10

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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	648	329	6.5
NOV				
14...	1010	495	358	1.0
JAN				
12...	1150	428	375	1.5
FEB				
19...	1313	300	401	2.5
APR				
07...	1035	480	394	4.0
MAY				
28...	0800	2480	241	6.5
JUN				
12...	0835	1660	274	7.5
AUG				
20...	1545	334	378	18.0
SEP				
23...	1425	301	417	12.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
DEC				
18...	1400	459	13	16
MAY				
04...	1500	1770	88	418
JUN				
08...	1230	1910	68	348
JUL				
29...	1400	844	56	128
AUG				
12...	1600	445	3	3.2

09304500 WHITE RIVER NEAR MEEKER, CO

LOCATION.--Lat 40°02'01", long 107°51'42", in NE¼NE¼ 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 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	709	596	511	462	396	380	559	1720	2810	1800	800	406
2	688	577	519	476	410	409	585	1710	2880	1610	756	395
3	831	555	503	490	423	410	598	1910	2990	1480	735	356
4	797	577	e445	465	418	410	594	2170	3040	1380	728	340
5	725	561	e480	458	421	390	569	2270	2780	1290	713	333
6	697	553	e500	448	420	414	577	2200	2340	1220	685	329
7	675	553	e490	386	416	403	572	2090	2100	1140	654	326
8	747	551	e485	454	416	359	567	2040	2060	1090	641	306
9	722	551	505	419	423	409	571	2030	1850	1040	669	291
10	717	551	490	445	394	377	557	2110	1880	1060	654	288
11	730	560	e460	453	367	393	593	2410	1920	1240	586	301
12	757	568	e395	456	428	394	702	2170	1830	1120	547	415
13	713	560	e425	452	388	403	696	2260	1900	1030	540	422
14	704	541	485	442	422	420	670	2540	1880	986	513	403
15	718	449	489	419	413	434	658	2220	1810	932	495	394
16	712	465	500	458	412	447	663	2000	1720	903	513	391
17	702	541	485	454	405	458	674	2090	2310	862	508	396
18	695	549	509	440	400	465	672	2330	2300	835	477	408
19	682	533	487	437	389	435	650	2470	2200	805	458	383
20	671	537	453	443	371	418	639	2730	2100	795	447	385
21	662	529	460	405	413	430	650	3260	2120	752	457	385
22	646	536	493	e390	408	447	717	3400	2270	732	481	381
23	632	505	468	e465	409	479	838	2830	2380	795	465	390
24	654	522	428	e450	414	603	1070	2510	2240	758	451	427
25	640	524	428	e445	424	792	1130	2290	2050	819	444	405
26	592	524	407	e425	403	863	1120	2290	2080	824	455	404
27	610	540	384	e430	399	794	1080	2360	2180	785	474	396
28	633	530	444	e425	380	733	1170	2580	2150	797	450	386
29	621	507	514	e415	---	651	1300	2750	2050	999	426	393
30	615	501	514	e430	---	577	1550	2840	1960	952	414	439
31	613	---	472	423	---	584	---	2850	---	843	403	---
TOTAL	21310	16146	14628	13660	11382	15181	22991	73430	66180	31674	17039	11274
MEAN	687	538	472	441	407	490	766	2369	2206	1022	550	376
MAX	831	596	519	490	428	863	1550	3400	3040	1800	800	439
MIN	592	449	384	386	367	359	557	1710	1720	732	403	288
AC-FT	42270	32030	29010	27090	22580	30110	45600	145600	131300	62830	33800	22360

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1998, BY WATER YEAR (WY)

MEAN	392	370	333	313	309	343	550	1566	1916	695	392	361
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	264	116	140	156
(WY)	1978	1978	1978	1981	1935	1935	1944	1977	1934	1977	1994	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1910 - 1998	
ANNUAL TOTAL	321033		314895			
ANNUAL MEAN	880		863		629	
HIGHEST ANNUAL MEAN					1044	1984
LOWEST ANNUAL MEAN					274	1977
HIGHEST DAILY MEAN	3890	Jun 5	3400	May 22	6320	May 25 1984
LOWEST DAILY MEAN	294	Jan 7	288	Sep 10	78	Jul 16 1977
ANNUAL SEVEN-DAY MINIMUM	333	Feb 4	311	Sep 5	86	Jul 13 1977
INSTANTANEOUS PEAK FLOW			3620	May 22	6950	May 25 1984
INSTANTANEOUS PEAK STAGE			5.22	May 22	a6.12	May 25 1984
ANNUAL RUNOFF (AC-FT)	636800		624600		455600	
10 PERCENT EXCEEDS	2430		2130		1500	
50 PERCENT EXCEEDS	541		551		370	
90 PERCENT EXCEEDS	350		396		270	

e-Estimated.
a-Maximum gage height, 7.60 ft, Jun 16, 1921, present datum.

09304800 WHITE RIVER BELOW MEEKER, CO

LOCATION.--Lat 40°00'48", long 108°05'33", in SW¼NE¼ 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.

DRAINAGE AREA.--1,024 mi^2.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR CO-79-3: Drainage area. WDR CO-86-2: 1985.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,928 ft above sea level, from topographic map.

REMARKS.--Records good except for Oct. 30 to Dec. 13 and Dec. 29 to Jan. 31, which are fair, and estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 22,000 acres upstream and a few small hay meadows downstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	896	704	512	465	e400	e390	647	1890	2830	2040	938	428
2	860	696	521	462	e390	e390	694	1940	2870	1890	890	419
3	939	665	493	476	e400	e430	739	2120	2970	1770	835	372
4	935	679	435	455	e410	e420	710	2300	3040	1680	826	354
5	849	657	476	424	e400	e430	659	2480	2960	1580	810	348
6	816	642	517	407	e410	e410	665	2440	2450	1490	790	326
7	801	642	517	386	e405	e430	661	2330	2180	1410	739	333
8	879	649	515	374	e400	e430	656	2260	2190	1350	692	325
9	823	653	509	401	e400	e390	654	2250	2000	1300	686	311
10	783	649	488	392	e410	e420	627	2260	2040	1330	677	286
11	751	667	447	405	e400	e410	657	2570	2060	1530	620	315
12	790	663	401	414	e380	e420	795	2310	1980	1380	569	473
13	768	640	377	414	e420	e420	812	2360	2020	1270	554	519
14	772	615	e390	410	e400	e430	778	2670	2050	1200	525	470
15	806	501	e410	399	e420	e440	755	2340	2040	1140	495	449
16	801	478	e440	405	e410	e450	752	2100	1910	1090	502	453
17	778	594	e450	414	e410	e450	764	2160	2570	1050	518	462
18	750	587	e440	415	e410	e460	768	2350	2590	998	495	472
19	745	570	e450	408	e410	481	734	2490	2340	950	480	432
20	732	579	e440	415	e390	452	712	2710	2200	932	466	416
21	720	556	e410	404	e380	479	718	3250	2210	889	489	429
22	696	567	e430	382	e400	520	780	3400	2340	865	540	419
23	681	510	e440	394	e400	563	908	2880	2440	950	517	412
24	724	550	e430	427	e410	719	1150	2510	2380	895	512	472
25	702	546	e400	437	e410	989	1260	2350	2220	944	488	455
26	645	537	e400	421	e420	1100	1250	2310	2230	977	499	449
27	684	573	e380	408	e410	1020	1220	2340	2310	935	558	430
28	712	553	e370	399	e410	945	1300	2550	2280	970	521	424
29	698	512	439	385	---	803	1410	2730	2200	1120	477	425
30	693	500	489	395	---	680	1690	2840	2130	1170	462	491
31	720	---	484	408	---	676	---	2870	---	1020	444	---
TOTAL	23949	17934	13900	12801	11315	17047	25925	76360	70030	38115	18614	12369
MEAN	773	598	448	413	404	550	864	2463	2334	1230	600	412
MAX	939	704	521	476	420	1100	1690	3400	3040	2040	938	519
MIN	645	478	370	374	380	390	627	1890	1910	865	444	286
AC-FT	47500	35570	27570	25390	22440	33810	51420	151500	138900	75600	36920	24530

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1998, BY WATER YEAR (WY)

MEAN	457	416	368	339	339	394	598	1593	1930	781	432	401
MAX	793	638	536	493	457	586	1141	2979	3904	2155	837	821
(WY)	1985	1985	1985	1986	1986	1986	1985	1985	1983	1995	1984	1997
MIN	260	282	266	230	251	285	393	374	283	147	172	213
(WY)	1978	1978	1964	1976	1977	1981	1977	1977	1977	1977	1990	1990

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1962 - 1998	
ANNUAL TOTAL	335858		338359			
ANNUAL MEAN	920		927		671	
HIGHEST ANNUAL MEAN					1069	1985
LOWEST ANNUAL MEAN					290	1977
HIGHEST DAILY MEAN	3910	Jun 3	3400	May 22	6060	Jun 26 1983
LOWEST DAILY MEAN	283	Feb 8	286	Sep 10	85	Jun 28 1977
ANNUAL SEVEN-DAY MINIMUM	303	Jan 30	321	Sep 5	90	Jun 25 1977
INSTANTANEOUS PEAK FLOW			3590	May 22	6590	Jun 26 1983
INSTANTANEOUS PEAK STAGE			3.78	May 22	4.97	Jun 26 1983
ANNUAL RUNOFF (AC-FT)	666200		671100		486400	
10 PERCENT EXCEEDS	2450		2290		1540	
50 PERCENT EXCEEDS	612		640		418	
90 PERCENT EXCEEDS	343		400		285	

e-Estimated.

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to September 1984, December 1985 (revised) 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.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 908 microsiemens Aug. 30, 1981; minimum, 221 microsiemens June 13, 1980.
WATER TEMPERATURE: Maximum, 25.0°C Aug. 7, 1978, Aug. 7, 1980; minimum, 0.0°C many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
JAN										
15...	1055	409	493	8.5	0.0	11.2	0.4	K19	--	--
MAY										
11...	1500	2600	335	8.1	8.0	10.7	0.6	150	--	--
JUN										
04...	1050	3070	290	8.2	8.5	9.2	0.7	200	140	40
JUL										
29...	1030	1130	477	8.3	15.5	7.6	1.2	86	--	--
AUG										
13...	0945	556	532	8.0	15.5	8.6	1.3	65	250	67

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	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)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
JAN										
15...	--	--	0.01	0.07	<0.02	0.1	<0.1	<0.01	<0.01	<0.01
MAY										
11...	--	--	<0.01	0.19	0.11	0.7	0.2	0.16	<0.01	0.02
JUN										
04...	10	1.8	0.02	0.11	0.03	0.3	<0.1	0.10	<0.01	0.03
JUL										
29...	--	--	<0.01	<0.05	<0.02	0.4	0.1	0.06	<0.01	<0.01
AUG										
13...	19	6.1	<0.01	<0.05	0.05	0.2	0.2	0.02	<0.01	0.01

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	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)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
JUN										
04...	990	<10	<1	<100	<10	<16	<1	2	<1	2
AUG										
13...	50	12	<1	500	<10	24	<1	<1	<1	<1

K-Based on non-ideal colony count.

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI) (01132)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
JUN									
04...	1400	<1	<10	60	<1	4	<1	280	<10
AUG									
13...	80	<1	<10	20	2	<1	<1	630	<10

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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				
22...	1535	722	437	8.0
DEC				
17...	1320	457	485	0.0
MAR				
06...	1540	471	549	5.0
APR				
10...	1345	641	694	8.5
JUN				
18...	1455	2450	458	10.5
AUG				
06...	1040	794	495	15.5
SEP				
09...	1555	312	643	19.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
JAN				
15...	1055	409	31	35
MAY				
11...	1500	2600	244	1710
JUN				
04...	1050	3070	137	1130
JUL				
29...	1030	1130	81	247
AUG				
13...	0945	556	11	16

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO

LOCATION.--Lat 39°49'34", long 108°10'57", in SE¼SE¼ sec.32, T.2 S., R.96 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 75 ft (revised) downstream from private bridge, 1,100 ft upstream from Stewart Gulch, and 14.3 mi west of Rio Blanco.

DRAINAGE AREA.--177 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to September 1998 (discontinued).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,366 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Several diversions upstream from station for irrigation of hay meadows.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	15	16	10	e10	e10	74	259	59	35	38	16
2	16	14	16	10	11	e10	82	263	54	34	37	16
3	17	13	13	11	11	12	79	274	47	35	36	16
4	17	14	e12	11	11	12	101	293	52	36	34	15
5	15	14	e11	11	11	e11	106	299	62	36	33	15
6	15	13	12	11	11	14	116	281	56	36	32	15
7	17	13	12	e8.8	11	11	109	260	53	35	31	15
8	23	15	12	e9.4	11	e9.8	108	235	55	36	30	15
9	24	15	12	e9.2	11	e11	108	221	53	35	30	15
10	19	15	12	e10	e10	e10	106	201	51	36	30	14
11	17	15	e11	11	e10	12	118	199	52	38	29	14
12	20	16	e10	11	11	14	140	184	50	39	28	15
13	20	15	e10	11	e10	17	134	171	50	40	27	15
14	21	14	e11	e10	11	21	134	171	53	39	25	15
15	19	e13	e11	e9.6	11	22	129	163	53	38	25	15
16	18	e11	e11	11	11	26	126	152	50	37	23	15
17	17	12	11	11	11	26	121	142	67	35	23	16
18	16	12	11	10	10	23	129	139	68	37	22	16
19	15	12	11	11	e11	20	131	136	61	38	21	16
20	14	13	11	e10	e10	19	126	131	60	35	19	16
21	14	12	e10	e9.6	e10	24	129	128	58	31	19	16
22	14	12	11	e9.2	11	31	136	121	58	31	18	16
23	14	11	11	e11	11	40	153	112	47	33	17	16
24	14	12	11	11	13	77	194	102	41	32	16	16
25	14	12	e10	11	12	151	229	92	41	33	16	16
26	13	12	e9.4	e10	e11	202	224	89	40	33	16	15
27	14	17	e8.6	e11	11	158	205	77	38	30	16	15
28	16	18	e9.2	e10	e10	136	203	66	36	32	16	15
29	20	19	e10	e11	---	108	204	65	39	36	16	15
30	19	18	10	11	---	88	228	65	39	38	16	16
31	16	---	e10	11	---	79	---	62	---	38	16	---
TOTAL	524	417	346.2	322.8	303	1404.8	4182	5153	1543	1097	755	461
MEAN	16.9	13.9	11.2	10.4	10.8	45.3	139	166	51.4	35.4	24.4	15.4
MAX	24	19	16	11	13	202	229	299	68	40	38	16
MIN	13	11	8.6	8.8	10	9.8	74	62	36	30	16	14
AC-FT	1040	827	687	640	601	2790	8290	10220	3060	2180	1500	914

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1998, BY WATER YEAR (WY)

MEAN	9.75	10.8	9.54	8.57	9.29	17.7	44.1	67.7	29.2	17.4	16.2	10.8
MAX	23.2	25.4	24.0	27.0	37.2	73.4	165	230	126	68.5	49.8	28.4
(WY)	1985	1986	1986	1986	1986	1986	1985	1983	1983	1984	1984	1984
MIN	2.42	2.78	3.63	2.83	3.21	2.96	2.21	3.79	3.92	4.25	2.23	2.34
(WY)	1978	1991	1991	1991	1991	1992	1977	1990	1989	1982	1994	1977

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1975 - 1998	
ANNUAL TOTAL	8304.3		16508.8			
ANNUAL MEAN	22.8		45.2		21.0	
HIGHEST ANNUAL MEAN					55.0	1984
LOWEST ANNUAL MEAN					5.02	1977
HIGHEST DAILY MEAN	86	May 8	299	May 5	410	May 15 1984
LOWEST DAILY MEAN	5.8	Mar 7	e8.6	Dec 27	.06	Jul 21 1992
ANNUAL SEVEN-DAY MINIMUM	6.5	Mar 3	9.6	Dec 25	.06	Jul 21 1992
INSTANTANEOUS PEAK FLOW			313	May 4	a520	Jul 19 1977
INSTANTANEOUS PEAK STAGE			5.42	May 4	b7.01	Jul 19 1977
ANNUAL RUNOFF (AC-FT)	16470		32750		15200	
10 PERCENT EXCEEDS	49		131		43	
50 PERCENT EXCEEDS	16		17		10	
90 PERCENT EXCEEDS	8.6		11		3.8	

e-Estimated.
a-From rating curve based on indirect measurement of peak flow.
b-Maximum gage height, 7.47 ft, May 16, 1984.

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to September 1998 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1974 to September 1985.
pH: December 1974 to September 1984.
WATER TEMPERATURE: December 1974 to September 1985.
DISSOLVED OXYGEN: December 1974 to September 1984.
SUSPENDED SEDIMENT DISCHARGE: April 1974 to September 1985.

INSTRUMENTATION.--Automatic pumping sediment sampler April 1974 to September 1985. Water-quality monitor December 1974 to September 1985.

REMARKS.--Unpublished maximum and minimum specific conductance data for period of daily record available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,690 microsiemens June 21, 1976; minimum, 344 microsiemens Apr. 13, 1976.
pH: Maximum, 9.0 units June 21, 1976; minimum, 7.0 units May 24, 1976.
WATER TEMPERATURES: Maximum, 29.5°C July 25, 1977; minimum, freezing point on many days during winter months each year.
DISSOLVED OXYGEN: Maximum, 15.7 mg/L Oct. 8, 1975; minimum, 5.1 mg/L July 17, 1979.
SEDIMENT CONCENTRATIONS: Maximum daily, 20,300 mg/L July 20, 1974; minimum daily, 6 mg/L several days during September 1976.
SEDIMENT LOADS: Maximum daily, 18,600 tons May 16, 1984; minimum daily, 0.02 ton Apr. 20, 1981.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT										
24...	1230	14	1020	8.8	3.0	12.1	360	70	44	100
MAR										
23...	1045	29	1020	8.5	8.0	9.8	340	67	42	100
APR										
29...	1030	210	875	8.1	6.5	11.8	350	72	40	71
SEP										
03...	1710	16	1130	8.3	19.5	7.3	400	75	52	110

DATE	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, 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										
24...	2	2.3	330	210	14	0.7	12	660	0.90	24.9
MAR										
23...	2	2.8	357	210	17	0.5	14	679	0.92	53.7
APR										
29...	2	2.3	369	170	9.8	0.4	15	609	0.83	350
SEP										
03...	2	2.3	319	250	17	0.7	15	725	0.99	30.5

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 DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT						
24...	<0.01	0.94	0.03	0.26	<0.01	<0.01
MAR						
23...	0.02	0.68	0.07	0.35	0.06	0.07
APR						
29...	0.01	1.66	0.04	0.40	<0.01	0.03
SEP						
03...	0.01	1.43	0.02	0.27	0.02	<0.01

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT											
24...	--	--	140	--	--	--	--	--	--	1300	--
MAR											
23...	--	--	100	--	--	--	--	--	--	1100	--
APR											
29...	3	91	68	<1	<10	15	11	9	<1	980	<20
SEP											
03...	2	98	140	<1	<10	13	31	7	<1	1500	<20

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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				
19...	1030	11	1050	2.0
MAR				
03...	1125	11	1080	5.0
APR				
07...	0915	114	970	4.0
MAY				
04...	1350	301	789	10.0
27...	1035	82	985	9.5
JUL				
16...	1210	38	1100	14.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	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					
24...	1230	14	17	0.63	--
MAR					
23...	1045	29	352	28	85
APR					
29...	1030	210	2580	1460	--
SEP					
03...	1710	16	26	1.1	60

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°49'09", long 108°11'08", in SE¼NE¼ sec.5, T.3 S., R.96 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 0.6 mi upstream from mouth, about 300 ft above confluence with West Fork Stewart Gulch, and 14.2 mi west of Rio Blanco.

DRAINAGE AREA.--44.0 mi^2.

PERIOD OF RECORD.--October 1974 to September 1998 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1974 to September 1982.
pH: October 1974 to March 1982.
WATER TEMPERATURE: October 1974 to September 1982.
DISSOLVED OXYGEN: October 1974 to March 1982.
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to September 1982.

INSTRUMENTATION.--Water-quality monitor October 1974 to September 1982. Pumping sediment sampler October 1974 to September 1982.

REMARKS.--Unpublished maximum and minimum specific conductance data for period of daily record available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,200 microsiemens Nov. 10, 1975; minimum, 583 microsiemens Feb. 22, 1982.
pH: Maximum, 8.9 units Dec. 9, 11, 1979; minimum, 7.6 units Oct. 7, 1975.
WATER TEMPERATURE: Maximum, 20.5°C July 3, 1976, June 3, 1977; minimum, 0.0°C Jan. 9, Dec. 17, 1977, Mar. 3, Dec. 2-3, 1978, Jan. 29, 1979.
DISSOLVED OXYGEN: Maximum, 16.6 mg/L Jan. 13, 1976; minimum, 3.6 mg/L Aug. 19-20, 1977.
SEDIMENT CONCENTRATIONS: Maximum daily, 1,350 mg/L June 8, 1975; minimum daily, no flow Aug. 7-9, 1975.
SEDIMENT LOADS: Maximum daily, 10 tons estimated June 8, 1975; minimum daily, no flow Aug. 7-9, 1975.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT										
24...	1030	0.28	1360	8.6	5.5	11.1	530	90	73	120
MAR										
23...	1200	4.5	1240	8.6	13.0	12.6	470	78	66	110
APR										
29...	1230	4.6	1360	8.3	12.5	10.0	540	92	74	120
SEP										
03...	1540	5.0	1390	8.2	15.5	8.9	530	90	73	120

DATE	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, 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										
24...	2	1.7	344	390	10	0.2	14	915	1.24	0.69
MAR										
23...	2	1.8	363	340	8.5	0.2	13	835	1.14	7.98
APR										
29...	2	1.1	365	380	9.9	0.3	12	911	1.24	11.3
SEP										
03...	2	1.2	356	370	9.9	0.3	16	911	1.24	12.2

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO-Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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 DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT						
24...	<0.01	1.1	0.03	<0.20	<0.01	<0.01
MAR						
23...	0.02	0.66	0.02	0.20	0.05	0.03
APR						
29...	0.01	0.54	0.04	0.17	<0.01	0.01
SEP						
03...	<0.01	1.8	0.02	0.15	0.02	0.01

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT				
24...	1030	0.28	6	<0.01
MAR				
23...	1200	4.5	35	0.43
APR				
29...	1230	4.6	15	0.18
SEP				
03...	1540	5.0	19	0.25

09306058 WILLOW CREEK NEAR RIO BLANCO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°50'14", long 108°14'37", in NW¼NE¼ sec.35, T.2 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on right bank 1,500 ft upstream from mouth, and 17.4 mi west of Rio Blanco.

DRAINAGE AREA.--48.4 mi^2.

PERIOD OF RECORD.--April 1974 to September 1985, October 1986 to September 1998 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1974 to September 1982.
pH: March 1976 to February 1982.
WATER TEMPERATURE: November 1974 to September 1982.
DISSOLVED OXYGEN: March 1976 to February 1982.
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to September 1982.

INSTRUMENTATION.--Water-quality monitor November 1974 to September 1982. Pumping sediment sampler October 1974 to September 1982.

REMARKS.--Unpublished daily maximum and minimum specific conductance data for period of daily record are available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,920 microsiemens July 14, 1976; minimum, 528 microsiemens Mar. 18, 1976.
pH: Maximum, 8.8 units Mar. 11, 1980; minimum, 7.4 units June 4, 6, 1980.
WATER TEMPERATURES: Maximum, 30.5°C July 4, 1982; minimum, 0.0°C on many days during winter months each year.
DISSOLVED OXYGEN: Maximum, 12.9 mg/L Mar. 29, 1979; minimum, 3.6 mg/L Sept. 29, 1978.
SEDIMENT CONCENTRATIONS: Maximum daily, 7,030 mg/L July 29, 1979; no flow many days during 1978.
SEDIMENT LOADS: Maximum daily, 61 tons July 29-30, 1979; no flow many days during 1978.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT										
30...	1620	3.7	1290	8.6	9.1	8.9	520	96	69	120
MAR										
23...	1430	3.7	1250	8.6	14.7	8.0	490	87	65	100
APR										
29...	1405	7.9	1270	8.2	14.0	9.9	520	99	67	110
SEP										
03...	1300	4.3	1340	8.2	13.5	8.4	520	90	70	110

DATE	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)
OCT									
30...	2	1.6	377	330	12	0.4	16	872	1.19
MAR									
23...	2	1.6	389	310	13	0.3	16	835	1.14
APR									
29...	2	1.5	379	330	14	0.4	16	867	1.18
SEP									
03...	2	1.3	384	340	13	0.4	19	881	1.20

09306058 WILLOW CREEK NEAR RIO BLANCO CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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 DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	BORON, DIS-SOLVED (UG/L AS B) (01020)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
OCT									
30...	8.68	<0.01	0.18	<0.02	<0.2	<0.01	0.01	116	2770
MAR									
23...	8.32	0.02	0.29	0.02	0.2	<0.01	0.01	111	2520
APR									
29...	18.5	0.01	1.0	0.04	0.3	<0.01	0.01	108	2520
SEP									
03...	10.3	<0.01	0.77	0.02	0.1	<0.01	0.01	117	2770

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	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					
30...	1620	3.7	62	0.62	--
MAR					
23...	1430	3.7	269	2.7	--
APR					
29...	1405	7.9	355	7.6	--
SEP					
03...	1300	4.3	150	1.8	62

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°55'16", long 108°17'49", in SE¼NE¼, 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.

DRAINAGE AREA.--506 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1964 to September 1998 (discontinued).

REVISED RECORDS.--WDR CO-79-3: 1977 (M).

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Elevation of gage is 6,070 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	38	37	e27	25	26	118	358	105	70	73	43
2	41	37	36	28	27	26	130	378	97	67	71	43
3	42	37	35	28	27	28	128	388	93	65	70	44
4	41	37	e31	28	28	30	142	405	95	65	71	42
5	39	36	e32	e28	26	26	144	429	111	66	73	41
6	38	36	33	e27	27	30	152	429	98	62	73	40
7	40	36	33	e22	29	29	149	413	93	59	70	41
8	46	37	33	e24	27	24	147	394	96	61	69	41
9	47	38	33	e23	26	27	146	380	94	60	68	42
10	43	39	32	e25	25	26	145	359	90	66	68	41
11	40	40	e30	27	25	29	153	354	88	71	67	40
12	42	40	e27	27	26	32	176	349	85	67	65	42
13	43	40	e27	27	25	38	184	325	82	65	62	41
14	43	39	e30	e26	27	41	183	318	89	63	60	39
15	41	e36	e30	e24	27	42	182	309	93	64	58	38
16	40	e32	e30	e26	27	42	185	283	90	61	58	37
17	39	35	e29	27	26	43	186	259	124	63	57	36
18	38	35	31	27	26	41	191	245	126	61	54	36
19	37	35	29	e26	26	35	191	235	107	62	54	37
20	37	35	29	e25	25	34	184	223	98	63	51	36
21	36	35	30	e24	26	37	183	218	94	61	52	36
22	35	34	29	e23	27	43	192	212	92	63	47	36
23	35	34	29	e27	28	50	209	204	81	71	46	37
24	38	34	28	e26	29	68	253	189	71	74	44	37
25	38	34	e27	27	32	149	296	171	75	76	44	36
26	35	34	e26	26	27	216	319	158	70	79	45	35
27	36	37	e24	27	27	204	316	144	65	74	45	35
28	39	38	e26	26	26	182	317	130	63	73	45	34
29	41	39	e29	27	---	159	319	116	67	77	47	34
30	42	38	e29	27	---	136	337	109	67	78	46	35
31	40	---	e27	27	---	128	---	109	---	78	45	---
TOTAL	1234	1095	931	809	749	2021	5957	8593	2699	2085	1798	1155
MEAN	39.8	36.5	30.0	26.1	26.8	65.2	199	277	90.0	67.3	58.0	38.5
MAX	47	40	37	28	32	216	337	429	126	79	73	44
MIN	35	32	24	22	25	24	118	109	63	59	44	34
AC-FT	2450	2170	1850	1600	1490	4010	11820	17040	5350	4140	3570	2290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1998, BY WATER YEAR (WY)

MEAN	22.1	26.4	24.4	21.9	25.0	35.1	49.1	70.2	33.7	24.9	31.2	22.0
MAX	69.9	58.4	60.9	55.5	61.0	112	228	326	166	98.7	95.6	65.2
(WY)	1986	1986	1984	1984	1986	1986	1986	1985	1983	1984	1984	1984
MIN	2.75	7.98	8.10	8.90	13.3	11.5	2.94	3.65	3.51	3.95	2.69	3.94
(WY)	1965	1968	1968	1979	1965	1972	1967	1967	1967	1967	1994	1981

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1965 - 1998	
ANNUAL TOTAL	15264		29126			
ANNUAL MEAN	41.8		79.8		32.2	
HIGHEST ANNUAL MEAN					96.5	1985
LOWEST ANNUAL MEAN					8.30	1967
HIGHEST DAILY MEAN	126	May 2	a429	May 5	534	May 5 1985
LOWEST DAILY MEAN	e16	Jan 7	e22	Jan 7	.15	Jun 7 1981
ANNUAL SEVEN-DAY MINIMUM	18	Jun 30	25	Jan 6	.96	Apr 27 1966
INSTANTANEOUS PEAK FLOW			437	May 5	550	May 5 1985
INSTANTANEOUS PEAK STAGE			7.95	May 5	b7.70	May 5 1985
ANNUAL RUNOFF (AC-FT)	30280		57770		23360	
10 PERCENT EXCEEDS	75		190		62	
50 PERCENT EXCEEDS	36		41		21	
90 PERCENT EXCEEDS	23		27		6.9	

e-Estimated.
a-Also occurred May 6.
b-Maximum gage height, 7.95 ft, May 5, 1998.

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1970 to September 1998 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1979 to September 1982, November 1985 to September 1998 (discontinued).
WATER TEMPERATURE: December 1979 to September 1982, November 1985 to September 1998 (discontinued).
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 (revised); water-quality monitor with satellite telemetry July 1, 1996 to September 30, 1998 (discontinued).

REMARKS.--Daily specific conductance record good except for Oct. 24 to Apr. 21 and July 16 to Sep. 3, which are fair. Daily water temperature record excellent except for Mar. 3-11 and Mar. 27 to Apr. 7, which are good. Data not published are either missing or of unacceptable quality. Prior to Oct. 1995, unpublished maximum and minimum specific conductance data for daily record are available in the district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum 2,920 microsiemens, July 18, 1981; minimum, 398 microsiemens, Mar. 11, 1997.
WATER TEMPERATURE: Maximum 28.0°C Sept. 4, 1990, minimum, -0.4°C many days during the fall-winter period Oct. 1997 to March 1998.
SEDIMENT CONCENTRATION: Maximum daily, 21,700 mg/L, July 20, 1977; minimum daily, 8 mg/L, Oct. 14, 1979, and several days in September 1981.
SEDIMENT LOADS: Maximum daily, 5,390 tons July 23, 1983; minimum daily, 0.05 ton, Sept. 27, 30, 1981.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,750 microsiemens, June 29; minimum, 656 microsiemens, Mar. 26.
WATER TEMPERATURE: Maximum, 20.9°C, July 2; minimum, -0.4°C, many days during the fall-winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT										
23...	1430	34	1340	8.6	6.5	9.3	490	80	70	140
MAR										
24...	1300	62	1080	8.4	9.5	8.9	360	62	49	100
APR										
30...	1030	336	964	8.2	6.5	11.5	390	77	47	75
SEP										
03...	1020	44	1420	8.3	12.0	8.8	530	83	77	140

DATE	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, 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										
23...	3	2.1	359	390	15	0.5	14	932	1.27	85.3
MAR										
24...	2	2.9	396	250	14	0.4	13	737	1.00	123
APR										
30...	2	2.2	358	210	11	0.4	15	660	0.90	599
SEP										
03...	3	2.1	390	370	14	0.6	16	949	1.29	112

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 DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
OCT							
23...	<0.01	0.60	0.03	0.20	<0.01	<0.01	--
MAR							
24...	0.02	0.52	0.12	0.44	0.07	0.05	--
APR							
30...	0.02	2.1	0.05	0.40	<0.01	0.03	6.6
SEP							
03...	0.01	1.1	0.02	0.22	0.02	0.02	4.0

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT											
23...	--	--	150	--	--	--	--	--	--	2600	--
MAR											
24...	--	--	93	--	--	--	--	--	--	1700	--
APR											
30...	3	83	73	<1	<10	14	10	11	<1	1300	<20
SEP											
03...	2	69	150	<1	<10	11	19	6	<1	2800	<20

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	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					
23...	1430	34	38	3.5	--
MAR					
24...	1300	62	1590	266	88
APR					
30...	1030	336	2680	2430	--
SEP					
03...	1020	44	144	17	89

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	1360	1340	1350	1260	1240	1250	1320	1290	1300	---	---	---
2	1360	1330	1350	1250	1240	1240	1310	1270	1290	---	---	---
3	1340	1330	1340	1260	1230	1240	1290	1280	1290	---	---	---
4	1330	1320	1330	1260	1240	1250	---	1280	---	---	---	---
5	1350	1330	1340	1270	1250	1260	---	1260	---	---	---	---
6	1340	1330	1340	1280	1270	1270	1280	1250	1270	---	---	---
7	1330	1300	1320	1280	1270	1280	1270	1260	1270	---	---	---
8	1300	1250	1270	1290	1270	1280	1270	1250	1260	---	---	---
9	1300	1240	1270	1280	1240	1270	---	---	---	---	---	---
10	1330	1300	1320	1270	1240	1250	---	---	---	---	---	---
11	1340	1310	1330	1270	1250	1260	---	---	---	---	---	---
12	1310	1290	1300	1270	1260	1270	---	---	---	---	---	---
13	1310	1290	1300	1300	1270	1290	---	---	---	---	---	---
14	1320	1310	1310	1290	1280	1290	---	---	---	---	---	---
15	1330	1310	1320	---	---	---	---	---	---	---	---	---
16	1330	1320	1320	---	---	---	---	---	---	---	---	---
17	1330	1320	1320	1320	1300	1310	---	---	---	---	---	---
18	1330	1320	1320	1320	1310	1310	---	---	---	---	---	---
19	1330	1320	1320	1310	1270	1300	---	---	---	---	---	---
20	1340	1320	1330	1300	1220	1280	---	---	---	---	---	---
21	1340	1340	1340	1270	1260	1270	---	---	---	---	---	---
22	1350	1340	1340	1270	1240	1260	---	---	---	---	---	---
23	1340	1320	1330	1280	1250	1260	---	---	---	---	---	---
24	1320	1250	1280	1310	1280	1300	---	---	---	---	---	---
25	1290	1250	1270	1310	1290	1300	---	---	---	---	---	---
26	1300	1290	1300	1290	1280	1290	---	---	---	1340	---	---
27	1300	1260	1280	1290	1190	1250	---	---	---	---	---	---
28	1280	1240	1260	1270	1240	1260	---	---	---	---	---	---
29	1280	1240	1250	1280	1270	1280	---	---	---	---	---	---
30	1270	1240	1250	1310	1270	1280	---	---	---	---	---	---
31	1260	1240	1250	---	---	---	---	---	---	---	---	---
MONTH	1360	1240	1310	---	---	---	---	---	---	---	---	---

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	1090	1060	1080	943	913	924
2	---	---	---	---	---	---	1080	1020	1050	930	912	919
3	---	---	---	1330	---	---	1060	1010	1040	928	904	916
4	1320	---	---	---	---	---	1050	989	1010	904	879	889
5	1320	1290	1310	---	---	---	1090	986	1040	879	857	868
6	1300	1150	1270	---	---	---	1080	1020	1050	877	862	870
7	1260	1150	1210	---	---	---	1080	1020	1050	908	876	889
8	1290	1200	1250	---	---	---	1090	1050	1070	915	904	909
9	1290	1260	1280	---	---	---	1090	1070	1080	926	908	917
10	1330	1280	1300	---	---	---	1100	1080	1090	931	917	924
11	1330	1280	1300	1350	1170	1290	1090	1010	1070	925	901	911
12	1300	1270	1280	1300	989	1190	1050	965	1000	918	895	906
13	1330	1280	1290	1260	938	1100	1030	983	1010	935	916	924
14	1320	1290	1290	1210	873	1050	1050	1030	1040	931	920	925
15	1310	1270	1300	1190	857	1050	---	1040	---	940	915	926
16	1300	1260	1280	1180	935	1070	---	---	---	959	938	948
17	1310	1300	1310	1170	1010	1090	---	---	---	977	957	966
18	1310	1300	1300	1170	1060	1110	---	---	---	982	966	975
19	1320	1290	1310	1250	1170	1220	---	---	---	980	967	974
20	1350	1300	1320	1290	1240	1270	---	---	---	987	968	977
21	1320	1290	1300	1290	1230	1260	1100	---	---	985	971	977
22	1320	1270	1300	1260	1140	1190	1100	1080	1090	996	971	984
23	1300	1270	1280	1190	1010	1110	1080	1040	1060	1020	987	1000
24	1330	1080	1290	1140	906	1030	1040	963	1000	1040	1010	1020
25	1290	1080	1210	1050	694	797	979	939	960	1080	1030	1050
26	---	1280	---	888	656	734	976	958	966	1110	1070	1090
27	---	---	---	833	716	762	993	976	985	1120	1100	1110
28	---	---	---	889	817	841	996	982	988	1150	1120	1130
29	---	---	---	971	861	933	989	965	976	1180	1150	1160
30	---	---	---	1020	969	990	968	942	954	1200	1170	1180
31	---	---	---	1060	1000	1020	---	---	---	1210	1190	1200
MONTH	---	---	---	---	---	---	---	---	---	1210	857	979
		JUNE			JULY			AUGUST			SEPTEMBER	
1	1250	1210	1220	1590	1550	1570	1510	1490	1490	1420	1410	1420
2	1270	1240	1250	1570	1550	1560	1500	1480	1490	1430	1410	1410
3	1300	1270	1280	1560	1550	1550	1510	1490	1500	1440	1400	1420
4	1310	1240	1280	1560	1550	1550	1510	1490	1500	1440	1420	1430
5	1300	1220	1250	1610	1550	1560	1500	1490	1500	1440	1430	1440
6	1340	1290	1310	1580	1550	1560	1500	1480	1490	1440	1430	1440
7	1350	1340	1340	1590	1580	1580	1490	1470	1480	1450	1430	1440
8	1350	1330	1340	1590	1580	1580	1490	1450	1470	1460	1450	1450
9	1380	1350	1370	1600	1580	1590	1490	1460	1480	1450	1440	1440
10	1400	1380	1390	1600	1420	1580	1470	1450	1460	1450	1440	1440
11	1400	1390	1390	1580	1470	1560	1480	1460	1470	1460	1410	1450
12	1410	1390	1400	1570	1560	1570	1470	1450	1460	1450	1410	1440
13	1430	1410	1420	1560	1540	1550	1460	1450	1450	1450	1420	1440
14	1410	1400	1410	1550	1540	1550	1450	1430	1440	1450	1440	1450
15	1430	1400	1410	1560	1520	1540	1440	1430	1430	1460	1440	1450
16	1420	1380	1420	1560	1530	1540	1440	1420	1430	1460	1430	1450
17	1380	1340	1350	1550	1530	1540	1440	1420	1430	1470	1460	1460
18	1410	1350	1370	1530	1510	1520	1480	1430	1460	1470	1460	1460
19	1440	1410	1420	1520	1510	1510	1470	1460	1470	1460	1450	1450
20	1440	1420	1430	1520	1500	1510	1470	1460	1460	1460	1450	1460
21	1460	1440	1450	1540	1520	1530	1470	1440	1460	1460	1460	1460
22	1460	1450	1460	1560	1520	1540	1490	1470	1480	1460	1450	1460
23	1500	1460	1480	1580	1480	1520	1520	1470	1500	1460	1450	1450
24	1530	1500	1520	1520	1480	1500	1510	1500	1510	1450	1440	1450
25	1530	1500	1510	1530	1500	1520	1500	1480	1490	1450	1440	1450
26	1530	1520	1530	1520	1470	1500	1500	1480	1490	1460	1450	1450
27	1550	1520	1540	1530	1510	1520	1510	1470	1490	1460	1450	1460
28	1580	1540	1560	1520	1480	1510	1510	1460	1490	1480	1460	1470
29	1750	1540	1560	1500	1470	1480	1460	1440	1440	1490	1390	1470
30	1600	1550	1570	1490	1470	1480	1440	1430	1430	1480	1310	1460
31	---	---	---	1500	1480	1480	1430	1410	1420	---	---	---
MONTH	1750	1210	1410	1610	1420	1540	1520	1410	1470	1490	1310	1450

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.1	8.5	11.9	7.2	2.9	5.2	4.2	2.6	3.5	3.6	-.4	1.1
2	15.8	9.5	12.5	6.4	1.5	4.1	3.6	2.1	3.0	4.3	2.3	3.2
3	15.7	11.3	13.4	6.7	1.4	4.3	3.5	.1	1.8	5.5	2.5	3.8
4	15.0	8.6	12.0	8.2	3.0	5.6	.5	-.4	-.1	4.1	1.2	2.7
5	15.5	9.0	12.2	7.5	2.7	5.2	.9	-.4	.1	3.3	1.4	2.3
6	14.8	8.3	11.7	7.6	2.1	5.0	3.2	-.3	1.5	1.4	-.4	.1
7	12.1	8.2	10.4	7.7	2.5	5.2	3.9	1.6	2.8	-.3	-.4	-.4
8	10.4	8.1	9.0	6.8	3.6	5.4	5.4	3.1	3.9	-.3	-.4	-.4
9	11.1	5.0	8.0	6.4	3.2	4.5	3.7	1.8	3.0	-.3	-.4	-.4
10	12.6	6.6	9.3	4.8	2.3	3.5	2.1	-.2	1.1	2.4	-.4	.0
11	11.7	8.2	9.7	5.7	3.1	4.5	-.2	-.4	-.3	4.5	1.9	2.9
12	8.9	5.8	7.5	5.9	3.3	4.5	.0	-.4	-.4	4.3	2.0	3.1
13	8.9	3.3	6.2	5.8	4.0	4.9	.0	-.4	-.3	3.7	2.2	3.0
14	9.9	3.6	6.9	5.0	.4	2.7	-.3	-.4	-.3	2.3	-.4	1.0
15	10.5	4.3	7.4	.4	-.4	-.3	-.3	-.4	-.3	1.6	-.4	.4
16	10.6	4.3	7.5	.4	-.4	-.3	-.3	-.4	-.3	3.3	.5	1.9
17	11.3	4.8	8.1	4.5	.4	2.3	.2	-.4	-.3	4.4	2.4	3.2
18	11.1	4.9	8.1	5.4	1.9	3.6	2.6	.2	1.3	4.3	.6	2.5
19	10.9	4.8	8.0	5.1	2.4	3.9	2.8	1.0	1.8	4.5	.6	2.6
20	9.9	5.2	7.8	5.2	3.3	4.2	3.1	1.0	1.8	2.5	-.4	1.1
21	10.1	4.2	7.3	3.8	.8	2.2	1.0	-.4	-.2	.3	-.4	-.3
22	9.9	4.1	7.1	3.6	-.4	1.7	2.0	.4	1.3	-.3	-.4	-.4
23	8.2	4.0	5.8	4.3	.1	2.0	2.9	.3	1.3	1.1	-.4	-.2
24	6.1	1.7	3.7	4.7	.1	2.5	.9	-.4	.1	4.1	-.3	1.9
25	4.1	-.3	1.4	5.7	1.5	3.5	.2	-.4	-.3	4.5	.3	2.3
26	4.8	-.4	2.1	5.5	2.1	3.8	-.3	-.4	-.4	3.4	-.4	1.4
27	6.4	.5	3.7	4.7	3.7	4.3	-.3	-.4	-.4	3.5	-.4	1.6
28	7.8	2.3	5.2	4.8	3.4	3.9	.0	-.4	-.4	4.0	-.4	1.7
29	8.5	4.1	6.4	4.3	3.1	3.7	.0	-.4	-.4	3.9	-.4	1.7
30	8.7	4.9	6.8	4.1	2.5	3.5	-.3	-.4	-.4	5.1	1.2	3.0
31	8.6	4.3	6.4	---	---	---	-.3	-.4	-.4	4.2	1.8	3.2
MONTH	15.8	-.4	7.9	8.2	-.4	3.6	5.4	-.4	.7	5.5	-.4	1.6

		FEBRUARY			MARCH			APRIL			MAY	
1	3.7	-.4	1.4	3.3	-.4	.7	8.5	3.6	6.3	11.8	6.8	9.1
2	3.2	.6	1.9	4.9	-.4	1.9	8.1	4.0	5.7	12.1	6.3	9.2
3	6.4	1.8	3.9	8.4	2.2	5.0	8.4	3.4	5.9	13.0	6.9	10.3
4	4.5	2.5	3.6	6.6	1.9	4.1	8.6	5.3	7.4	12.4	6.2	9.9
5	5.2	2.6	3.8	5.6	-.4	2.7	9.2	5.7	7.6	11.5	6.9	9.6
6	6.0	1.9	4.2	6.1	2.2	4.1	8.6	5.8	6.9	10.4	7.2	8.8
7	5.6	3.4	4.3	2.8	-.4	1.0	7.2	4.5	6.0	10.0	5.9	8.1
8	4.5	2.4	3.5	2.2	-.4	.3	7.4	5.0	6.3	10.0	6.7	8.7
9	5.7	1.3	3.5	5.7	-.4	2.4	7.7	4.3	6.3	11.1	6.3	8.6
10	4.8	-.3	2.5	7.5	-.4	3.5	9.6	4.4	7.0	12.2	7.5	10.0
11	2.5	-.4	.5	9.1	.7	4.9	10.3	5.5	8.3	11.7	8.1	9.6
12	5.0	-.3	2.2	9.7	1.4	5.4	9.8	6.6	7.5	10.7	6.4	8.6
13	3.1	-.4	1.6	10.1	1.5	5.6	6.9	4.6	5.9	12.8	7.9	10.3
14	6.2	2.0	3.8	10.5	2.4	6.4	7.6	5.1	6.4	12.2	8.0	9.9
15	5.5	3.2	4.3	10.3	2.5	6.5	7.3	4.8	6.3	10.4	6.2	8.3
16	5.5	2.2	3.8	10.4	2.6	6.7	7.0	4.9	5.6	11.7	6.3	9.1
17	5.2	3.0	4.0	8.5	3.6	6.0	8.5	4.0	6.2	13.5	7.7	10.7
18	5.3	1.2	3.2	3.9	1.3	2.1	8.2	4.0	6.4	13.7	8.0	11.2
19	5.3	-.3	2.7	8.8	1.0	4.5	8.0	4.6	6.6	13.9	9.1	11.7
20	5.9	-.4	2.9	9.7	1.3	5.5	9.4	5.2	7.5	15.0	10.0	12.7
21	5.7	.5	3.3	10.8	2.6	6.7	10.8	5.2	8.0	14.1	10.3	12.4
22	6.0	2.9	4.4	9.5	4.8	7.3	11.6	6.2	9.2	12.7	8.0	9.7
23	5.1	2.9	4.2	11.4	5.7	8.6	11.9	6.9	9.8	13.0	7.6	10.3
24	6.3	3.1	4.7	11.6	5.1	8.8	11.9	7.4	9.6	12.0	8.2	10.1
25	5.6	2.3	3.7	10.3	2.9	6.5	10.3	6.8	8.7	14.2	7.8	10.9
26	2.9	-.4	1.5	8.1	1.6	4.5	9.2	5.8	7.4	14.1	9.1	11.8
27	3.6	-.4	1.2	5.4	2.8	4.2	9.9	5.4	7.5	15.7	9.2	12.5
28	2.7	-.4	.4	5.6	3.6	4.8	10.7	5.4	8.1	16.5	9.5	13.1
29	---	---	---	5.6	2.7	4.5	11.8	5.9	9.0	15.4	10.3	12.5
30	---	---	---	5.2	2.4	3.8	12.2	6.5	9.9	16.4	9.5	12.7
31	---	---	---	7.1	2.7	4.8	---	---	---	15.9	9.3	12.9
MONTH	6.4	-.4	3.0	11.6	-.4	4.6	12.2	3.4	7.3	16.5	5.9	10.4

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.2	9.6	13.4	20.4	11.7	16.1	17.9	13.4	15.6	15.3	12.7	13.9
2	17.2	9.7	13.6	20.9	11.7	16.2	17.6	11.4	14.6	18.1	11.3	14.5
3	17.2	9.3	13.4	19.3	12.1	15.7	17.6	12.2	14.9	18.8	11.4	15.3
4	14.7	10.3	11.6	20.0	13.2	16.1	18.1	11.6	14.7	19.3	12.1	15.6
5	13.2	8.3	10.4	19.9	12.3	16.2	18.7	11.6	15.0	19.6	13.2	16.2
6	13.1	8.5	11.0	20.5	13.7	16.9	18.9	11.7	15.3	19.7	12.9	16.2
7	16.1	9.5	12.6	18.0	12.2	15.3	19.0	11.8	15.3	18.8	13.1	15.9
8	14.2	10.4	12.4	19.9	11.8	15.6	17.5	11.8	14.9	18.6	13.0	15.7
9	14.2	9.7	11.9	17.3	12.5	14.8	18.8	12.8	15.6	17.7	11.5	14.7
10	13.5	9.2	11.5	15.7	13.1	14.3	16.2	12.4	14.1	14.9	11.8	13.6
11	12.9	8.6	11.2	18.3	11.8	14.8	18.6	11.5	14.8	16.9	12.3	14.3
12	15.8	9.1	12.4	20.3	12.3	16.0	16.9	11.5	14.4	15.3	13.2	14.3
13	14.1	10.5	12.0	18.8	12.4	15.6	18.7	11.5	15.0	15.8	10.6	13.3
14	14.0	10.0	11.8	19.8	12.1	15.7	16.8	11.9	14.5	17.0	10.6	13.8
15	15.8	8.5	11.9	19.7	12.1	15.9	17.9	12.0	15.0	15.8	10.3	13.3
16	13.3	10.0	11.5	19.8	12.1	15.9	18.4	12.2	15.0	14.9	9.9	12.6
17	10.0	7.5	8.6	20.4	12.1	16.1	19.2	12.7	15.8	16.3	10.1	13.2
18	15.1	8.3	11.2	20.5	12.4	16.3	16.8	12.7	14.8	16.6	10.3	13.5
19	17.3	9.6	13.3	20.2	13.0	16.5	18.4	11.2	14.6	16.1	10.6	13.4
20	15.6	10.4	13.4	20.6	13.0	16.6	17.1	11.4	14.4	13.9	9.5	11.8
21	17.5	10.8	14.0	18.6	13.1	16.0	15.2	12.3	13.5	14.1	10.2	12.1
22	17.9	10.8	14.3	18.6	14.0	16.3	17.5	11.0	14.1	14.8	8.9	12.0
23	17.8	10.2	14.0	16.9	13.9	15.6	19.4	12.1	15.6	14.1	10.9	12.5
24	17.5	10.1	13.7	17.7	13.7	15.3	19.6	13.1	16.5	14.8	9.2	12.0
25	18.1	9.8	13.9	16.0	13.2	14.4	17.4	12.5	15.3	14.6	9.0	11.9
26	18.1	10.4	14.4	17.7	13.1	15.1	18.8	13.1	15.7	14.5	8.5	11.6
27	19.2	10.4	14.7	18.0	12.8	15.3	19.4	12.7	15.8	14.2	7.8	11.1
28	20.0	10.5	15.1	16.7	13.5	14.8	18.3	10.8	14.7	14.2	7.6	11.0
29	20.3	11.2	15.6	18.1	12.8	15.3	17.8	10.9	14.5	14.8	9.8	12.4
30	20.1	11.7	15.9	16.8	12.7	15.1	18.7	11.3	15.0	15.9	9.7	12.6
31	---	---	---	17.9	12.9	15.2	16.6	11.9	14.3	---	---	---
MONTH	20.3	7.5	12.8	20.9	11.7	15.6	19.6	10.8	14.9	19.7	7.6	13.5

09306222 PICEANCE CREEK AT WHITE RIVER, CO

LOCATION.--Lat 40°04'14", long 108°14'09", in SE¼SE¼ 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 mi^2.

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 Oct. 1-5, Oct. 13-17, May 30 to July 1, July 11 to Aug. 11, and 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	e55	44	e35	e37	e38	168	459	111	85	77	60
2	53	e52	43	e35	e35	38	186	475	102	84	77	59
3	56	e49	43	e36	e38	41	196	496	96	82	77	55
4	52	47	e38	e36	e38	45	201	505	97	81	76	51
5	53	46	e39	e36	e39	39	211	530	114	83	76	50
6	e52	45	e40	e36	e37	43	223	536	107	77	76	50
7	e51	44	40	e35	e39	48	229	539	101	76	78	49
8	e53	44	40	e29	e41	e39	228	525	100	79	80	50
9	e59	45	40	e31	e38	43	225	506	100	81	81	47
10	e62	46	40	e30	e37	41	219	476	98	81	81	48
11	e58	47	e38	e33	e36	46	221	443	95	86	82	49
12	e54	47	e35	e35	e36	50	245	439	93	84	81	51
13	57	47	e33	e36	e37	57	282	419	91	86	79	53
14	55	46	e33	e36	e36	63	286	408	95	87	76	53
15	56	e42	e36	e34	e39	63	280	409	99	86	74	51
16	55	e37	e36	e32	e40	63	286	391	103	85	73	50
17	55	e39	e36	e35	e38	62	285	374	157	83	74	49
18	54	40	e35	e36	e38	64	279	369	178	80	72	47
19	52	41	e38	e36	e38	60	282	363	144	84	71	49
20	52	42	e36	e35	e38	59	274	347	118	84	68	49
21	51	42	e36	e34	e37	63	269	339	110	84	68	49
22	50	42	e37	e33	e39	65	272	322	108	82	66	47
23	50	41	e36	e32	e41	70	288	292	95	83	64	49
24	e50	41	e36	e35	e43	81	322	260	89	91	62	49
25	e53	41	e35	e36	49	194	389	249	89	106	60	48
26	e53	41	e34	e36	41	293	422	219	88	102	61	47
27	e48	44	e32	e37	39	333	434	e214	89	92	62	46
28	e49	45	e30	e37	e36	302	437	e170	89	85	59	46
29	e51	45	e34	e36	---	281	440	e140	86	87	62	45
30	e53	45	e36	e37	---	232	451	121	86	95	62	47
31	e56	---	e37	e37	---	193	---	113	---	84	60	---
TOTAL	1658	1328	1146	1077	1080	3109	8530	11448	3128	2645	2215	1493
MEAN	53.5	44.3	37.0	34.7	38.6	100	284	369	104	85.3	71.5	49.8
MAX	62	55	44	37	49	333	451	539	178	106	82	60
MIN	48	37	30	29	35	38	168	113	86	76	59	45
AC-FT	3290	2630	2270	2140	2140	6170	16920	22710	6200	5250	4390	2960

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1998, BY WATER YEAR (WY)

MEAN	28.9	33.9	29.7	26.7	31.0	48.4	65.3	86.0	41.1	30.4	35.2	26.0
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 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1965 - 1998	
ANNUAL TOTAL	18647		38857			
ANNUAL MEAN	51.1		106		40.3	
HIGHEST ANNUAL MEAN					110	1985
LOWEST ANNUAL MEAN					12.5	1990
HIGHEST DAILY MEAN	161	May 1	539	May 7	539	May 7 1998
LOWEST DAILY MEAN	e22	Jan 7	e29	Jan 8	a.50	Jul 21 1966
ANNUAL SEVEN-DAY MINIMUM	26	Jan 6	33	Jan 6	.84	Jul 30 1971
INSTANTANEOUS PEAK FLOW			554	May 7	b628	Sep 7 1978
INSTANTANEOUS PEAK STAGE			6.21	May 7	7.04	Sep 7 1978
ANNUAL RUNOFF (AC-FT)	36990		77070		29170	
10 PERCENT EXCEEDS	76		285		80	
50 PERCENT EXCEEDS	42		55		26	
90 PERCENT EXCEEDS	28		36		4.1	

e-Estimated.
a-Also occurred Jul 22, 1966.
b-On basis of slope-area measurement of peak flow.

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

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. The maximum extreme specific conductance value of 10,000 microsiemens represents a value of 10,000 microsiemens or higher due to instrument limitations.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 10,000 microsiemens, June 18, 1981; minimum, 460 microsiemens, Feb. 28 and Mar. 2, 1983.
WATER TEMPERATURE: Maximum, 32.0°C, July 14, 1978; minimum, 0.0°C, many days during winter months.
SEDIMENT CONCENTRATION: Maximum daily, 25,000 mg/L, estimated Sept. 7, 1978; 4 mg/L, Oct. 2, 1977.
SEDIMENT LOADS: Maximum daily, 6,095 tons, estimated, May 28, 1983; minimum daily, 0.10 ton, June 22, 1978.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT												
23...	1630	51	1620	8.7	6.5	10.8	460	67	70	230	5	2.3
MAR												
24...	1100	91	1430	8.6	10.0	8.9	410	63	60	170	4	3.1
APR												
30...	1210	467	1080	8.1	10.0	10.9	390	73	49	100	2	2.7
SEP												
02...	1330	61	1570	8.4	18.0	8.8	470	65	75	200	4	2.3

DATE	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)	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, 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											
23...	--	--	--	532	310	24	0.8	14	1030	1.41	142
MAR											
24...	--	--	--	624	310	25	0.7	15	1030	1.39	251
APR											
30...	417	--	--	319	230	14	0.5	16	700	0.95	882
SEP											
02...	604	8	495	463	370	24	0.7	15	1060	1.44	174

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 DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
APR							
30...	0.02	2.0	0.05	0.47	<0.01	0.03	7.4
SEP							
02...	0.01	1.1	0.02	0.25	<0.01	0.02	4.1

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

WATER-QUALITY DATA, OCTOBER 1997 TO SEPTEMBER 1998

DATE	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)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT											
23...	--	--	207	--	--	--	--	--	--	2400	--
MAR											
24...	--	--	151	--	--	--	--	--	--	2000	--
APR											
30...	3	95	97	<1	<10	16	<4	10	<1	1400	<20
SEP											
02...	2	80	184	<1	<10	17	<4	6	<1	2400	<20

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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				
30...	1215	58	1580	7.5
DEC				
18...	0925	35	1570	0.0
APR				
21...	1500	270	1190	11.0
MAY				
05...	1600	551	983	12.0
29...	1005	136	1370	12.5
JUL				
15...	1200	87	1750	17.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEARS OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	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					
23...	1630	51	202	28	--
MAR					
24...	1100	91	2790	684	80
APR					
30...	1210	467	4100	5170	--
SEP					
02...	1330	61	154	25	73

09306242 CORRAL GULCH NEAR RANGELY, CO

LOCATION.--Lat 39°55'13", long 108°28'20", in SE¼NW¼ sec.35, T.1 S., R.99 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 5 ft downstream from Box Elder Gulch (revised), 3.5 mi upstream from confluence with Stake Springs Draw, and 21 mi southeast of Rangely.

DRAINAGE AREA.--31.6 mi^2.

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 good except for estimated daily discharges, which are poor. No diversions upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.5	1.0	1.0	.90	e.86	.57	12	23	12	e5.2	3.4	2.6
2	e1.4	.96	1.0	.91	e.80	.76	12	25	12	e4.8	3.3	2.6
3	e1.5	.98	.75	e.85	e1.0	1.2	12	27	11	e4.5	3.3	2.3
4	e1.5	1.1	.68	e.80	e.94	1.2	12	31	12	e4.4	3.3	2.2
5	e1.4	1.1	.86	e.75	e.96	.89	12	35	12	e4.1	3.3	2.1
6	e1.3	1.1	1.0	e.70	e.98	1.2	12	33	11	e3.8	3.2	2.0
7	e1.4	1.1	1.1	e.43	e1.0	.84	12	31	10	e3.6	3.2	2.0
8	e1.6	1.1	1.2	e.44	e.98	.85	12	30	10	e3.5	3.1	2.0
9	e1.7	1.1	1.1	e.64	e.94	1.0	12	31	10	e3.4	3.1	2.0
10	e1.5	1.0	1.0	e.60	e.86	1.1	12	28	9.7	e3.3	3.3	2.0
11	e1.4	1.1	.76	e.95	e.80	1.4	12	27	9.4	e3.3	3.2	2.1
12	e1.5	1.1	.59	e.88	e.76	2.0	13	26	9.0	e3.7	3.1	e2.0
13	e1.5	1.1	.67	e.84	e.78	2.9	13	26	8.8	e3.5	3.0	e1.9
14	e1.5	.79	.79	e.72	e.90	3.5	14	25	8.6	e3.3	3.0	e1.8
15	e1.4	.55	.99	e.65	e1.0	3.5	14	24	8.5	e3.1	2.9	e1.8
16	e1.4	.71	1.1	e.78	e.96	3.0	14	23	8.9	e3.1	2.9	e1.7
17	e1.4	.92	1.1	e.70	e.96	2.7	14	22	9.7	3.1	2.8	e1.8
18	e1.3	1.0	e1.1	e.90	e.92	1.1	14	20	8.5	3.2	2.8	e1.8
19	e1.3	1.0	1.1	e.84	e.88	1.6	14	20	7.8	3.2	2.7	e1.7
20	e1.3	1.0	1.1	e.80	e.86	2.0	14	19	7.5	3.2	2.7	e1.7
21	e1.3	1.0	1.0	e.72	e.92	3.2	14	20	7.2	3.2	2.9	e1.8
22	e1.3	.94	1.0	e.66	e1.0	5.0	14	19	7.0	3.2	2.8	e1.8
23	e1.3	.96	1.0	e.62	e.92	7.1	16	18	6.8	3.3	2.7	e1.8
24	1.3	1.0	1.0	e.88	e1.1	13	18	17	6.7	3.4	2.7	e1.7
25	.54	1.0	.96	e.86	.78	13	20	16	6.5	4.5	2.7	e1.7
26	.84	1.1	.91	e.82	.53	13	21	15	6.5	3.9	2.7	e1.7
27	1.1	1.1	.96	e.76	.47	14	21	14	6.3	3.8	2.9	e1.6
28	1.1	1.0	.90	e.86	.48	14	22	14	6.2	3.9	2.8	e1.7
29	1.1	1.0	.97	e.80	---	13	22	14	6.0	3.9	2.7	e1.7
30	1.1	1.0	.93	e.80	---	13	22	14	e5.7	3.9	2.6	e1.7
31	1.1	---	.91	e.88	---	13	---	13	---	3.6	2.6	---
TOTAL	40.88	29.91	29.53	23.74	24.34	154.61	446	700	261.3	113.9	91.7	57.3
MEAN	1.32	1.00	.95	.77	.87	4.99	14.9	22.6	8.71	3.67	2.96	1.91
MAX	1.7	1.1	1.2	.95	1.1	14	22	35	12	5.2	3.4	2.6
MIN	.54	.55	.59	.43	.47	.57	12	13	5.7	3.1	2.6	1.6
AC-FT	81	59	59	47	48	307	885	1390	518	226	182	114

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1998, BY WATER YEAR (WY)

MEAN	1.07	.86	.79	.75	.81	1.31	2.92	7.89	4.75	2.03	1.63	1.35
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	1998	1984	1983	1984	1984	1978
MIN	.30	.25	.27	.30	.30	.31	.22	.15	.094	.17	.29	.32
(WY)	1991	1993	1992	1977	1993	1977	1992	1992	1992	1992	1977	1991

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1974 - 1998	
ANNUAL TOTAL	773.64		1973.21			
ANNUAL MEAN	2.12		5.41		2.24	
HIGHEST ANNUAL MEAN					7.75	1984
LOWEST ANNUAL MEAN					.27	1992
HIGHEST DAILY MEAN	e9.0	May 14	35	May 5	207	Jun 1 1983
LOWEST DAILY MEAN	a.41	Feb 9	e.43	Jan 7	b.06	Apr 10 1974
ANNUAL SEVEN-DAY MINIMUM	.42	Feb 20	.62	Jan 4	.07	Apr 10 1974
INSTANTANEOUS PEAK FLOW			39	May 5	c1780	Aug 18 1984
INSTANTANEOUS PEAK STAGE			3.15	May 5	6.12	Aug 18 1984
ANNUAL RUNOFF (AC-FT)	1530		3910		1620	
10 PERCENT EXCEEDS	5.7		14		4.4	
50 PERCENT EXCEEDS	1.3		2.0		.85	
90 PERCENT EXCEEDS	.45		.80		.31	

e-Estimated.
a-Also occurred Feb 22-24.
b-Also occurred Apr 11-14, 1974.
c-From rating curve extended above 70 ft^3/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.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 3,000 microsiemens, July 17, 1976; minimum, 271 microsiemens, Feb. 18, 1980.
WATER TEMPERATURE: Maximum, 29.0°C, Aug. 5, 1979; minimum, 0.0°C, on several days during winter months some years.
SEDIMENT CONCENTRATIONS: Maximum daily, 35,800 mg/L, Aug. 2, 1982; minimum daily, 2 mg/L, May 24, 1981.
SEDIMENT LOADS: Maximum daily, 43,600 tons, Aug. 18, 1984; minimum daily, 0.00 ton, on many days during 1981.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT										
23...	1230	1.2	1320	8.2	7.5	10.2	530	92	73	110
APR										
08...	1010	12	1340	8.4	5.0	10.8	600	110	78	99
SEP										
02...	2325	2.3	1440	7.9	10.5	6.3	580	99	79	120

DATE	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, 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										
23...	2	1.3	331	380	14	0.3	20	890	1.21	2.88
APR										
08...	2	1.0	337	380	13	0.4	22	925	1.26	30.7
SEP										
02...	2	1.2	397	420	16	0.3	22	1000	1.36	6.27

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 DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, 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)
OCT										
23...	--	--	--	--	--	--	--	--	112	2200
APR										
08...	<0.01	3.1	0.03	0.50	0.5	<0.01	0.02	11	73	2000
SEP										
02...	<0.01	1.5	0.02	0.24	0.3	0.04	0.02	6.1	108	2300

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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				
30...	1415	1.1	1300	10.0
DEC				
18...	1130	1.1	1340	5.5
FEB				
24...	1300	1.3	1120	6.5
MAR				
03...	1615	1.9	795	4.0
APR				
07...	1515	12	1400	9.0
21...	0950	14	1400	6.0
MAY				
04...	1645	34	1220	14.5
21...	1250	19	1260	14.0
27...	1310	14	1280	15.0
JUL				
16...	1005	3.6	1480	12.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT				
23...	1230	1.2	51	0.17
APR				
08...	1010	12	1480	49
SEP				
02...	2325	2.3	3	0.02

09306255 YELLOW CREEK NEAR WHITE RIVER, CO

LOCATION.--Lat 40°10'07", long 108°24'02", in NE¼SW¼ 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 mi^2.

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.--Record fair except for discharges above 12 ft^3/s and estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 300 acres.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	4.4	4.6	3.9	4.2	4.9	5.8	7.5	10	11	10	9.5
2	5.5	4.4	4.7	3.9	4.2	4.5	7.3	7.5	10	12	10	9.7
3	5.4	4.4	4.5	4.0	4.5	5.4	6.5	7.4	9.9	12	10	10
4	4.3	4.4	e4.1	4.1	4.5	11	6.2	7.4	11	11	10	10
5	4.2	4.4	e4.3	4.1	4.5	7.2	6.1	7.4	12	11	9.7	10
6	4.1	4.4	4.5	4.1	4.8	7.2	6.2	7.5	12	10	9.5	9.9
7	4.2	4.4	4.7	e3.8	5.2	7.8	6.4	7.5	11	11	9.1	9.6
8	4.6	4.5	4.7	e4.0	4.9	6.6	6.7	7.4	11	10	9.0	9.6
9	4.2	4.5	4.5	e3.9	5.1	4.8	6.7	7.5	11	11	9.1	9.5
10	4.2	4.4	4.4	4.0	4.8	4.7	6.5	7.3	12	10	9.3	9.6
11	4.2	4.6	4.2	4.1	4.8	7.2	6.6	7.5	12	10	9.4	9.8
12	4.3	4.5	e3.6	4.2	4.5	13	6.9	7.7	11	11	9.4	10
13	4.1	4.5	e3.7	4.3	4.7	19	7.1	7.7	11	12	9.2	10
14	4.1	4.3	e3.8	4.2	4.7	17	7.1	7.7	11	12	9.1	10
15	4.1	e3.7	3.9	4.1	4.9	8.6	7.2	7.7	12	11	8.8	10
16	4.2	e3.8	4.2	4.1	4.9	5.9	7.5	7.9	14	10	8.9	10
17	4.1	4.4	4.1	4.2	4.8	5.7	7.7	7.8	19	9.9	8.9	10
18	4.1	4.4	4.0	4.2	4.8	5.5	7.7	7.9	15	9.8	9.0	10
19	4.1	4.4	4.0	4.2	4.9	5.2	7.6	8.5	13	10	9.0	9.8
20	4.2	4.5	4.0	4.2	5.0	5.3	7.6	9.1	13	9.9	8.8	10
21	4.2	4.5	4.0	e4.0	5.1	6.0	7.6	9.6	13	9.7	9.3	10
22	4.2	4.4	3.9	e3.8	6.5	6.4	7.6	10	12	9.6	9.6	9.9
23	4.3	4.4	4.3	4.2	7.0	6.1	7.6	11	12	9.4	9.6	10
24	5.1	4.4	3.9	4.2	16	7.3	7.5	11	12	9.8	9.6	10
25	4.8	4.5	e3.8	4.1	31	5.6	7.3	11	11	10	9.9	9.9
26	4.7	4.6	e3.7	4.1	8.8	6.0	7.4	11	11	11	9.5	9.9
27	4.6	4.8	e3.6	4.2	5.3	6.3	7.5	11	11	10	9.2	9.9
28	4.6	4.7	e3.7	4.3	5.1	6.6	7.6	10	11	11	8.9	10
29	4.7	4.7	e3.8	4.3	---	6.3	7.6	11	11	10	9.0	11
30	4.6	4.7	3.9	4.3	---	6.1	7.6	11	11	11	9.3	11
31	4.5	---	3.9	4.3	---	5.8	---	10	---	11	9.3	---
TOTAL	137.9	133.0	127.0	127.4	179.5	225.0	212.7	270.5	355.9	327.1	289.4	298.6
MEAN	4.45	4.43	4.10	4.11	6.41	7.26	7.09	8.73	11.9	10.6	9.34	9.95
MAX	5.5	4.8	4.7	4.3	31	19	7.7	11	19	12	10	11
MIN	4.1	3.7	3.6	3.8	4.2	4.5	5.8	7.3	9.9	9.4	8.8	9.5
AC-FT	274	264	252	253	356	446	422	537	706	649	574	592

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1998, BY WATER YEAR (WY)

MEAN	2.12	2.41	2.15	2.03	4.03	4.52	2.89	4.28	3.47	3.12	2.37	3.33
MAX	5.30	5.94	4.76	4.63	12.7	18.1	7.09	24.1	19.9	18.5	9.34	17.1
(WY)	1989	1989	1989	1990	1980	1997	1998	1985	1985	1985	1998	1978
MIN	.50	.78	.15	.008	.22	1.64	1.37	1.03	.68	.34	.30	.80
(WY)	1979	1978	1979	1979	1979	1982	1978	1978	1977	1976	1978	1976

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1973 - 1998	
ANNUAL TOTAL	1862.8		2684.0			
ANNUAL MEAN	5.10		7.35		2.75	
HIGHEST ANNUAL MEAN					7.35	1998
LOWEST ANNUAL MEAN					1.28	1977
HIGHEST DAILY MEAN	136	Mar 12	31	Feb 25	500	Sep 7 1978
LOWEST DAILY MEAN	e1.8	Jan 6	e,a3.6	Dec 12	b.00	Sep 11 1978
ANNUAL SEVEN-DAY MINIMUM	2.2	Feb 27	3.8	Dec 24	.00	Dec 15 1978
INSTANTANEOUS PEAK FLOW			49	Mar 13	c6800	Sep 7 1978
INSTANTANEOUS PEAK STAGE			d6.56	Mar 13	12.97	Sep 7 1978
ANNUAL RUNOFF (AC-FT)	3690		5320		1990	
10 PERCENT EXCEEDS	4.7		11		4.9	
50 PERCENT EXCEEDS	3.5		7.2		2.1	
90 PERCENT EXCEEDS	2.6		4.1		.88	

e-Estimated.
a-Also occurred Dec 27.
b-Also occurred Sep 12-16, 1978, and Dec 15, 1978 to Jan 14, 1979.
c-On basis of contracted-opening, and flow-over-road measurement of peak flow.
d-Maximum gage height, 6.62 ft, Jan 22, backwater from ice.

09306255 YELLOW CREEK NEAR WHITE RIVER, CO--Continued

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.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum 5,790 microsiemens, Sept. 17, 1978; minimum, 457 microsiemens, July 21, 1979.
WATER TEMPERATURE: Maximum 35.0°C, July 25, 1978; minimum, 0.0°C, on many days during the winter period.
SEDIMENT CONCENTRATIONS: Maximum daily, 24,000 mg/L, Sept. 7, 1978; minimum daily, no flow several days during Sept. 1978, many days during 1979.
SEDIMENT LOADS: Maximum daily, 290,000 tons, Sept. 7, 1978; minimum daily, no flow several days during Sept. 1978, many days during 1979.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
OCT												
23...	0945	4.2	2900	8.8	4.5	14.0	690	57	130	500	8	2.5
MAR												
24...	0915	5.4	3230	8.6	8.5	9.2	810	60	160	540	8	3.6
APR												
30...	1450	7.6	3180	8.2	17.0	11.0	720	40	150	510	8	3.2
SEP												
02...	1640	9.8	2730	8.6	20.5	9.1	780	65	150	400	6	2.4

DATE	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)	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, 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											
23...	--	--	--	902	730	74	1.5	12	2070	2.81	21.8
MAR											
24...	--	--	--	1000	860	71	1.3	16	2320	3.16	33.8
APR											
30...	--	--	--	917	870	76	1.5	11	2200	3.00	46.4
SEP											
02...	794	32	705	--	820	51	1.0	15	1950	2.66	51.5

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 DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
OCT							
23...	0.02	3.60	0.04	0.4	<0.01	0.01	--
APR							
30...	0.02	1.29	0.05	0.6	<0.01	0.02	8.0
SEP							
02...	0.03	6.00	<0.02	0.6	<0.01	0.02	8.1

09306255 YELLOW CREEK NEAR WHITE RIVER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT											
23...	--	--	484	--	--	--	--	--	--	4100	--
MAR											
24...	--	--	468	--	--	--	--	--	--	4400	--
APR											
30...	3	100	442	<1	<30	110	36	22	<1	4400	<60
SEP											
02...	4	71	387	<1	<30	68	<12	29	1	4200	<20

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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					APR				
30...	0830	4.6	2930	5.0	08...	1430	6.4	3260	12.5
DEC					MAY				
17...	0915	4.0	2930	0.0	21...	0940	10	2810	12.0
MAR					JUL				
04...	0930	7.2	2570	1.5	15...	0930	11	2700	12.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	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					
23...	0945	4.2	65	0.74	--
MAR					
24...	0915	5.4	253	3.7	99
APR					
30...	1450	7.6	92	1.9	--
SEP					
02...	1640	9.8	68	1.8	--

09306290 WHITE RIVER BELOW BOISE CREEK NEAR RANGELY, CO

LOCATION.--Lat 40°10'47", long 108°33'53", in SW¼SE¼ 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 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	843	731	626	e540	e500	e490	883	2130	2920	2040	981	512
2	814	705	637	e560	e480	e480	915	2240	2890	1920	940	501
3	881	689	632	e600	e500	e470	1140	2380	2960	1770	887	465
4	1010	677	601	e620	e520	e500	972	2550	3050	1690	846	431
5	867	680	559	e600	e530	e530	909	2740	3210	1610	830	415
6	816	666	607	e560	e540	e500	894	2790	2690	1510	822	399
7	797	662	643	e470	e560	e540	921	2740	2330	1410	783	391
8	907	657	629	e440	e580	e500	935	2650	2250	1370	738	389
9	957	662	640	e460	e560	e490	934	2620	2170	1300	712	370
10	857	673	615	e500	e520	e500	886	2610	2110	1290	729	344
11	853	694	577	e540	e500	e470	e850	2770	2140	1470	697	375
12	889	711	508	e560	e480	501	e890	2720	2090	1390	626	447
13	877	699	e410	e580	e470	555	e1080	2620	2030	1290	624	614
14	837	682	e390	e560	e460	616	e1090	2840	2110	1220	600	559
15	828	643	e540	e520	e500	670	e1060	2760	2160	1170	563	533
16	826	553	e560	e500	e520	687	e1020	2470	1990	1110	561	521
17	811	606	e540	e520	e540	686	e1030	2410	2600	1070	580	521
18	802	689	e520	e540	e520	698	e1020	2530	2910	998	553	537
19	789	656	e540	e560	e500	586	e1040	2660	2560	973	547	525
20	776	654	e520	e560	e500	568	e1000	2810	2320	949	529	489
21	767	660	e500	e520	e480	576	e970	3130	2250	933	545	505
22	753	658	e480	e500	e470	633	998	3560	2360	871	594	508
23	739	622	e500	e480	e500	687	1110	3340	2420	936	600	485
24	792	625	e480	e500	e540	866	1320	2830	2450	983	572	526
25	801	638	e450	e520	e580	1250	1550	2630	2280	988	559	540
26	744	639	e430	e540	e560	1460	1600	2460	2220	1070	551	525
27	727	658	e420	e550	e520	1400	1600	2470	2280	987	597	503
28	762	683	e430	e560	e500	1380	1630	2590	2290	1060	595	488
29	772	650	e440	e540	---	1210	1710	2780	2220	1060	561	490
30	761	625	e540	e520	---	1020	1930	2880	2130	1260	535	524
31	749	---	e560	e500	---	918	---	2940	---	1140	515	---
TOTAL	25404	19847	16524	16520	14430	22437	33887	83650	72390	38838	20372	14432
MEAN	819	662	533	533	515	724	1130	2698	2413	1253	657	481
MAX	1010	731	643	620	580	1460	1930	3560	3210	2040	981	614
MIN	727	553	390	440	460	470	850	2130	1990	871	515	344
AC-FT	50390	39370	32780	32770	28620	44500	67210	165900	143600	77040	40410	28630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1998, BY WATER YEAR (WY)

MEAN	555	526	452	408	404	543	807	1895	2191	992	543	484
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	566	542	254	202	237
(WY)	1993	1991	1991	1991	1991	1995	1995	1990	1994	1994	1990	1990

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1983 - 1998	
ANNUAL TOTAL	365347		378731			
ANNUAL MEAN	1001		1038		818	
HIGHEST ANNUAL MEAN					1345	1984
LOWEST ANNUAL MEAN					428	1990
HIGHEST DAILY MEAN	3930	Jun 4	3560	May 22	6170	May 26 1984
LOWEST DAILY MEAN	e360	Jan 6	344	Sep 10	109	Aug 6 1994
ANNUAL SEVEN-DAY MINIMUM	386	Jan 28	383	Sep 5	147	Aug 3 1994
INSTANTANEOUS PEAK FLOW			3730	May 22	6440	Jun 7 1984
INSTANTANEOUS PEAK STAGE			a6.63	May 22	8.45	Jun 7 1984
ANNUAL RUNOFF (AC-FT)	724700		751200		592400	
10 PERCENT EXCEEDS	2620		2450		1830	
50 PERCENT EXCEEDS	680		686		527	
90 PERCENT EXCEEDS	440		490		320	

e-Estimated.
a-Maximum gage height, 7.99 ft, Jan 3, backwater from ice.

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	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)
JAN											
15...	1310	e520	665	8.4	0.0	11.2	0.5	K18	--	--	--
MAY											
11...	1800	3020	465	8.0	8.5	10.4	0.9	160	--	--	--
JUN											
04...	1300	3010	372	8.4	11.5	8.6	0.8	270	160	42	14
JUL											
30...	0930	1400	630	8.4	18.0	7.3	1.1	59	--	--	--
AUG											
13...	1230	627	745	8.6	19.0	8.5	1.5	62	290	65	30

DATE	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)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
JAN											
15...	--	--	--	0.01	0.14	<0.02	0.2	0.2	<0.01	<0.01	<0.01
MAY											
11...	--	--	--	<0.01	0.44	0.04	1.1	0.2	0.39	<0.01	0.01
JUN											
04...	149	3	127	0.02	0.17	<0.02	0.4	0.1	0.04	<0.01	0.03
JUL											
30...	--	--	--	<0.01	0.15	<0.02	0.9	0.1	0.26	<0.01	<0.01
AUG											
13...	--	--	--	0.01	0.14	0.03	0.2	0.2	<0.01	<0.01	0.02

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	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)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
JUN										
04...	4900	<10	1	200	<10	23	<1	6	3	8
AUG										
13...	90	<10	1	<100	<10	59	<1	<1	<1	3

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI) (01132)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
JUN									
04...	6200	6	10	210	<1	9	<1	470	30
AUG									
13...	90	<1	10	<10	4	<1	1	930	<10

e-Estimated.
K-Based on non-ideal colony count.

09306290 WHITE RIVER BELOW BOISE CREEK, NEAR RANGELY, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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				
22...	1140	776	563	7.0
MAR				
04...	1330	545	754	4.5
11...	1215	414	759	3.5
APR				
08...	1740	931	963	9.0
21...	1330	956	909	10.5
JUN				
18...	1210	3070	593	10.0
AUG				
05...	1229	841	656	19.5
SEP				
10...	1020	339	864	16.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
JAN				
15...	1310	e520	20	e29
MAY				
11...	1800	3020	1340	10900
JUN				
04...	1300	3010	666	5420
JUL				
30...	0930	1400	517	1950
AUG				
13...	1230	627	21	36

e-Estimated.

09306305 WHITE RIVER BELOW TAYLOR DRAW RESERVOIR, ABOVE RANGELY, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°06'12", long 108°42'56"in NW¼NE¼ 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 mi^2, revised.

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

REMARKS.--July point sample collected on left side of channel, and may not be representative of total cross-section.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	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)
JAN											
15...	1545	505	693	8.3	0.5	11.7	0.2	K13	--	--	--
MAY											
20...	1030	e2810	473	7.9	12.0	9.4	0.6	K18	--	--	--
JUN											
09...	0930	e2170	510	8.5	11.5	9.0	1.2	84	--	--	19
JUL											
30...	1200	e1160	675	8.1	25.0	4.7	--	K19	--	--	--
AUG											
13...	1500	687	686	8.5	21.5	7.0	0.2	K13	270	61	28

DATE	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)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
JAN											
15...	--	--	--	0.01	0.20	<0.02	0.1	0.1	<0.01	<0.01	<0.01
MAY											
20...	--	--	--	0.01	0.46	0.05	0.3	0.3	0.04	<0.01	0.01
JUN											
09...	151	2	128	0.02	0.23	0.05	0.2	0.2	0.06	<0.01	0.01
JUL											
30...	--	--	--	<0.01	0.13	0.05	0.2	0.2	<0.01	<0.01	0.01
AUG											
13...	--	--	--	0.01	0.09	0.08	0.4	0.3	0.01	0.02	0.02

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	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)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
JUN										
09...	660	<10	<1	<100	<10	47	<1	1	<1	9
AUG										
13...	300	<10	1	<100	<10	53	<1	<1	<1	2

DATE	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI) (01132)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
JUN										
09...	<10	650	1	<10	30	1	2	1	500	<10
AUG										
13...	--	270	<1	10	30	4	2	1	830	<10

e-Estimated.
K-Based on non-ideal colony count.

09306305 WHITE RIVER BELOW TAYLOR DRAW RESERVOIR, ABOVE RANGELY, CO

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
JAN				
15...	1545	505	11	16
MAY				
20...	1030	e2810	58	e440
JUN				
09...	0930	e2170	40	e234
AUG				
13...	1500	687	25	46

e-Estimated.

09340800 WEST FORK SAN JUAN RIVER AT WEST FORK CAMPGROUND, NEAR PAGOSA SPRINGS, CO

LOCATION.--Lat 37°27'01", long 106°54'40", NE¼NE¼ sec. 18, T. 37 N., R. 1 E., Mineral County, Hydrologic Unit 14080101, on right bank 30 ft upstream from West Fork bridge, 1.8 mi upstream from Wolf Creek, and 15 mi northeast of Pagosa Springs.

DRAINAGE AREA.--50.5 mi^2.

PERIOD OF RECORD.--October 1984 to September 1987. May 1997 to current year (seasonal record). Water-quality data available, November 1984 to September 1987.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,935 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. No regulations or diversions. 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 CONTINUOUS RECORD.--Maximum discharge, 1050 ft^3/s, May 8, 1985, gage height, 5.25 ft; minimum daily, 11 ft^3/s, Feb. 2, 1985.

EXTREMES FOR PERIOD OF SEASONAL RECORD.--Maximum discharge, 967 ft^3/s, June 2, 1997, gage height, 4.85 ft; minimum daily, 16 ft^3/s, Sept. 27, 28, 1998.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known occurred Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 771 ft^3/s at 0145 Oct. 11, gage height, 4.56 ft; minimum daily, 16 ft^3/s, Sept. 27, 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	59	---	---	---	---	36	143	461	159	116	68
2	95	53	---	---	---	---	36	162	497	149	102	59
3	106	52	---	---	---	---	35	199	469	139	89	48
4	82	51	---	---	---	---	36	229	395	132	107	44
5	70	48	---	---	---	---	37	214	300	127	190	42
6	64	47	---	---	---	---	38	175	274	120	121	40
7	89	46	---	---	---	---	35	155	271	118	101	39
8	125	44	---	---	---	---	32	151	270	129	89	37
9	93	44	---	---	---	---	31	143	268	167	77	35
10	150	44	---	---	---	---	32	182	248	209	79	34
11	507	44	---	---	---	---	41	214	225	167	77	34
12	307	44	---	---	---	---	46	212	235	136	70	35
13	237	43	---	---	---	---	40	224	262	117	66	36
14	211	41	---	---	---	---	37	220	257	103	60	32
15	187	37	---	---	---	---	34	178	258	91	56	32
16	164	39	---	---	---	---	32	172	265	82	51	31
17	148	41	---	---	---	---	31	195	264	75	49	30
18	135	40	---	---	---	---	30	245	234	68	51	28
19	123	40	---	---	---	---	30	290	251	62	45	27
20	113	39	---	---	---	---	36	325	267	58	44	26
21	102	37	---	---	---	---	44	387	275	61	80	25
22	96	36	---	---	---	---	66	370	274	54	56	23
23	89	37	---	---	---	---	100	326	261	49	48	24
24	81	36	---	---	---	---	124	309	234	49	53	21
25	78	34	---	---	---	---	118	312	222	77	58	18
26	78	35	---	---	---	---	94	334	221	73	59	17
27	75	36	---	---	---	---	81	376	213	75	52	16
28	73	35	---	---	---	---	84	439	204	121	47	16
29	70	35	---	---	---	---	90	475	191	122	46	17
30	65	35	---	---	---	---	119	461	172	93	46	27
31	62	---	---	---	---	---	---	425	---	94	44	---
TOTAL	3975	1252	---	---	---	---	1625	8242	8238	3276	2229	961
MEAN	128	41.7	---	---	---	---	54.2	266	275	106	71.9	32.0
MAX	507	59	---	---	---	---	124	475	497	209	190	68
MIN	62	34	---	---	---	---	30	143	172	49	44	16
AC-FT	7880	2480	---	---	---	---	3220	16350	16340	6500	4420	1910

09341300 WOLF CREEK AT WOLF CREEK CAMPGROUND, NEAR PAGOSA SPRINGS, CO

LOCATION.--Lat 37°26'31", long 106°53'11", NW¼ SW¼ sec. 16, T. 37 N., R. 1 E., Mineral County, Hydrologic Unit 14080101, on left bank 10 ft downstream from bridge at Wolf Creek Campground, 0.8 mi upstream from mouth and 14 mi northeast of Pagosa Springs.

DRAINAGE AREA.--18.0 mi^2.

PERIOD OF RECORD.--October 1984 to September 1987. May 1997 to current year (seasonal records only). Streamflow and water quality records for station 09341200, Wolf Creek near Pagosa Springs, 0.3 mi upstream, for period October 1968 to September 1975 are not equivalent because of inflow between sites. Water-quality data available for this site, November 1984 to September 1987.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,830 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulations. Small transmountain diversion upstream from station by Treasure Pass diversion ditch to South Fork Rio Grande drainage and small diversion by U.S. Forest Service for fish ponds 0.3 mi 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.

EXTREMES FOR PERIOD OF CONTINUOUS RECORD.--Maximum discharge, 526 ft^3/s, June 7, 1985, gage height, 3.79 ft; minimum daily, 3.1 ft^3/s, Jan. 25, 1987.

EXTREMES FOR PERIOD OF SEASONAL RECORD.--Maximum discharge, 454 ft^3/s, June 1, 1997, gage height, 3.37 ft; minimum daily, 2.0 ft^3/s, Sept. 28, 1998.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known occurred Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 382 ft^3/s at 1900 May 29, gage height, 3.06 ft; minimum daily, 2.0 ft^3/s, Sept. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	19	---	---	---	---	12	66	275	73	15	8.1
2	23	18	---	---	---	---	11	76	295	68	13	8.3
3	26	17	---	---	---	---	11	94	313	62	12	7.5
4	21	16	---	---	---	---	11	113	242	56	16	6.6
5	19	15	---	---	---	---	12	115	190	51	31	5.6
6	18	15	---	---	---	---	12	99	175	45	16	5.1
7	33	14	---	---	---	---	11	85	171	45	14	4.8
8	e41	13	---	---	---	---	9.5	80	169	43	13	4.5
9	e29	13	---	---	---	---	9.8	80	164	51	12	4.4
10	e50	13	---	---	---	---	10	103	155	69	11	4.1
11	e140	16	---	---	---	---	14	117	145	51	11	4.1
12	e80	19	---	---	---	---	16	118	145	40	11	4.6
13	e66	13	---	---	---	---	13	133	155	35	10	4.7
14	54	12	---	---	---	---	11	140	151	31	9.9	4.1
15	50	12	---	---	---	---	10	116	148	28	9.3	3.8
16	46	12	---	---	---	---	9.3	117	146	26	8.9	3.5
17	42	11	---	---	---	---	8.8	136	142	24	8.0	3.7
18	38	11	---	---	---	---	8.5	179	126	21	7.7	3.4
19	35	11	---	---	---	---	10	192	127	19	7.2	3.0
20	32	11	---	---	---	---	11	181	130	18	6.7	2.8
21	29	10	---	---	---	---	15	244	131	18	8.6	2.6
22	27	9.3	---	---	---	---	24	220	126	16	8.4	2.6
23	25	9.2	---	---	---	---	39	189	119	15	7.1	2.6
24	23	9.2	---	---	---	---	53	176	105	15	6.6	2.4
25	24	9.5	---	---	---	---	50	179	96	16	6.1	2.2
26	25	9.3	---	---	---	---	39	203	91	19	5.9	2.2
27	24	9.2	---	---	---	---	34	223	91	17	6.4	2.1
28	23	9.1	---	---	---	---	37	253	89	15	7.1	2.0
29	21	9.2	---	---	---	---	44	287	85	17	6.7	2.1
30	20	9.1	---	---	---	---	55	293	79	13	8.4	2.8
31	20	---	---	---	---	---	---	255	---	12	7.4	---
TOTAL	1129	374.1	---	---	---	---	610.9	4862	4576	1029	321.4	120.3
MEAN	36.4	12.5	---	---	---	---	20.4	157	153	33.2	10.4	4.01
MAX	140	19	---	---	---	---	55	293	313	73	31	8.3
MIN	18	9.1	---	---	---	---	8.5	66	79	12	5.9	2.0
AC-FT	2240	742	---	---	---	---	1210	9640	9080	2040	637	239

e-Estimated.

09341500 WEST FORK SAN JUAN RIVER NEAR PAGOSA SPRINGS, CO

LOCATION.--Lat 37°23'31", long 106°54'24", NW¼NW¼ sec. 1, T. 36 N., R. 1 W., Archuleta County, Hydrologic Unit 14080101, on right bank 400 ft downstream from Archuleta-Mineral County line, 1.9 mi upstream from mouth, and 11 mi northeast of Pagosa Springs.

DRAINAGE AREA.--85.4 mi^2.

PERIOD OF RECORD.--April 1935 to September 1960, October 1984 to September 1987 (at current site). Seasonal record April 1997 to September 1998 (discontinued). Water-quality data available December 1984 to September 1987 at present site.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,645 ft above sea level, from topographic map. See WSP 1733 for history of changes prior to Sept. 28, 1984.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 550 acres upstream and 220 acres downstream from station. Treasure Pass ditch upstream from station exports water to Rio Grande 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 CONTINUOUS RECORD.--Maximum discharge determined for period Apr. 1935 to Sept. 1960, 2330 ft^3/s, June 15, 1952, maximum gage height, 6.45 ft June 18, 1949. Minimum daily discharge, 5.8 ft^3/s Sept. 21, 1956 (sites and datums then in use). Maximum discharge determined for period Oct. 1984 to Sept. 1987, 2040 ft^3/s, June 8, 1985, gage height, 4.85 ft; minimum daily 20 ft^3/s, Feb. 1, 1985 at present site.

EXTREMES FOR PERIOD OF SEASONAL RECORD.--Maximum discharge, 1820 ft^3/s, June 4, 1997, gage height, 5.04 ft; minimum daily, 32 ft^3/s, Sept. 26-28, 1998.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known occurred October 5, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 1120 ft^3/s at 2030 June 2, gage height, 4.52 ft; minimum daily, 32 ft^3/s, Sept. 26-28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143	103	---	---	---	---	79	316	840	268	153	81
2	134	93	---	---	---	---	86	342	923	249	132	76
3	144	91	---	---	---	---	74	403	877	229	116	64
4	125	90	---	---	---	---	76	463	737	212	121	58
5	115	85	---	---	---	---	79	446	566	204	281	52
6	109	82	---	---	---	---	81	383	493	183	164	50
7	118	79	---	---	---	---	74	340	487	182	133	53
8	221	76	---	---	---	---	68	325	473	191	116	50
9	141	76	---	---	---	---	66	308	472	248	104	44
10	168	75	---	---	---	---	69	369	433	343	103	42
11	734	79	---	---	---	---	94	429	388	275	104	42
12	474	82	---	---	---	---	111	441	394	218	95	43
13	360	75	---	---	---	---	91	469	439	184	90	45
14	316	70	---	---	---	---	82	475	428	160	82	41
15	285	64	---	---	---	---	75	386	429	138	76	40
16	262	e66	---	---	---	---	70	371	438	124	71	39
17	243	67	---	---	---	---	66	402	438	111	66	38
18	227	e66	---	---	---	---	64	499	379	101	71	37
19	209	e65	---	---	---	---	67	582	402	93	61	36
20	190	64	---	---	---	---	81	651	426	86	58	35
21	173	e65	---	---	---	---	105	756	430	88	96	34
22	159	e64	---	---	---	---	158	749	428	79	77	34
23	148	e62	---	---	---	---	229	645	409	75	65	34
24	142	e62	---	---	---	---	288	614	373	73	65	34
25	133	e61	---	---	---	---	289	599	341	95	69	33
26	134	57	---	---	---	---	241	641	331	103	71	32
27	128	59	---	---	---	---	217	702	328	105	65	32
28	125	57	---	---	---	---	229	792	322	143	61	32
29	120	57	---	---	---	---	243	888	307	168	57	33
30	112	60	---	---	---	---	280	863	287	122	59	37
31	108	---	---	---	---	---	---	791	---	116	56	---
TOTAL	6200	2152	---	---	---	---	3832	16440	14018	4966	2938	1301
MEAN	200	71.7	---	---	---	---	128	530	467	160	94.8	43.4
MAX	734	103	---	---	---	---	289	888	923	343	281	81
MIN	108	57	---	---	---	---	64	308	287	73	56	32
AC-FT	12300	4270	---	---	---	---	7600	32610	27800	9850	5830	2580

e-Estimated.

09342500 SAN JUAN RIVER AT PAGOSA SPRINGS, CO

LOCATION.--Lat 37°15'58", long 107°00'37", in NE¼SW¼ 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 mi^2.

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 ft^3/s, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	291	218	119	85	66	62	338	1050	1900	598	329	137
2	272	196	117	90	68	65	348	1140	2070	563	305	156
3	304	187	e105	101	73	70	332	1340	2060	519	245	127
4	257	184	91	95	72	71	366	1520	1750	508	236	111
5	229	174	94	87	71	69	379	1490	1290	480	524	98
6	210	167	98	67	70	70	385	1280	1040	439	342	88
7	213	160	109	68	70	67	345	1110	1010	438	277	85
8	559	152	116	e70	70	70	317	1040	972	436	240	84
9	345	156	106	74	69	72	291	941	977	522	217	77
10	371	157	98	84	64	72	290	1090	903	669	192	74
11	1080	166	87	91	64	77	385	1270	805	610	200	74
12	840	168	71	85	e62	86	479	1290	785	460	195	74
13	641	172	90	79	65	113	408	1340	899	397	173	76
14	583	154	97	77	73	145	369	1400	891	357	156	70
15	528	120	100	64	69	166	336	1150	859	308	139	67
16	483	99	97	e70	68	207	314	1080	882	278	126	66
17	449	110	92	e72	67	215	303	1110	910	256	115	65
18	414	109	97	e67	66	179	289	1340	771	227	120	63
19	381	123	95	72	63	143	269	1580	796	214	105	59
20	358	139	91	76	68	155	317	1760	856	188	110	56
21	331	122	89	65	66	194	370	1960	869	201	181	56
22	310	106	97	62	67	273	496	2010	894	164	148	56
23	294	105	96	65	67	392	708	1690	850	163	115	57
24	297	106	92	e64	67	535	942	1570	787	155	102	54
25	263	112	86	e63	67	669	1020	1490	702	201	125	52
26	254	124	70	67	64	686	874	1590	670	231	175	51
27	260	140	65	71	53	589	747	1690	669	271	139	50
28	259	127	e70	69	59	500	780	1860	679	265	112	50
29	248	115	70	70	---	416	790	2040	678	396	100	53
30	233	118	81	74	---	349	909	2030	663	287	104	65
31	227	---	83	73	---	342	---	1820	---	237	97	---
TOTAL	11784	4286	2869	2317	1868	7119	14496	45071	29887	11038	5744	2251
MEAN	380	143	92.5	74.7	66.7	230	483	1454	996	356	185	75.0
MAX	1080	218	119	101	73	686	1020	2040	2070	669	524	156
MIN	210	99	65	62	53	62	269	941	663	155	97	50
AC-FT	23370	8500	5690	4600	3710	14120	28750	89400	59280	21890	11390	4460

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1998, BY WATER YEAR (WY)

MEAN	148	94.2	64.5	55.7	62.6	150	564	1294	1354	403	178	150
MAX	937	399	160	107	142	442	1210	2665	3066	1515	638	859
(WY)	1942	1987	1987	1986	1995	1986	1985	1941	1957	1941	1957	1970
MIN	23.3	33.6	27.5	26.8	29.2	50.3	141	253	163	62.8	28.9	18.8
(WY)	1957	1956	1990	1990	1964	1964	1977	1977	1977	1959	1972	1956

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1936 - 1998	
ANNUAL TOTAL	192261		138730			
ANNUAL MEAN	527		380		377	
HIGHEST ANNUAL MEAN					730	1941
LOWEST ANNUAL MEAN					115	1977
HIGHEST DAILY MEAN	3480	Jun 2	2070	Jun 2	4640	May 13 1941
LOWEST DAILY MEAN	54	Jan 14	a50	Sep 27	b9.7	Oct 5 1956
ANNUAL SEVEN-DAY MINIMUM	62	Jan 8	52	Sep 23	11	Oct 4 1956
INSTANTANEOUS PEAK FLOW			2590	May 29	25000	Oct 5 1911
INSTANTANEOUS PEAK STAGE			5.02	May 29	c17.80	Oct 5 1911
ANNUAL RUNOFF (AC-FT)	381300		275200		273200	
10 PERCENT EXCEEDS	1550		1040		1170	
50 PERCENT EXCEEDS	291		174		110	
90 PERCENT EXCEEDS	71		67		43	

e-Estimated.
a-Also occurred Sep 28.
b-Also occurred Oct 6, 1956.
c-From floodmarks.

09343300 RIO BLANCO BELOW BLANCO DIVERSION DAM, NEAR PAGOSA SPRINGS, CO

LOCATION.--Lat 37°12'13", long 106°48'38", in NE¼NW¼ sec.11, T.34 N., R.1 E., Archuleta County, Hydrologic Unit 14080101, on left bank 250 ft downstream from Blanco Diversion Dam, 1.1 mi downstream from Leche Creek, and 12 mi southeast of Pagosa Springs.

DRAINAGE AREA.--69.1 mi^2.

PERIOD OF RECORD.--March 1971 to current year.

GAGE.--Water-stage recorder and Parshall flume with satellite telemetry. Datum of gage is 7,858.04 ft above sea level, (levels by U. S. Bureau of Reclamation).

REMARKS.--Records good except for discharges above 65 ft^3/s, which are fair, and the period Oct. 30 to Mar. 23 which is poor. Flows controlled by diversion dam upstream.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	47	30	23	e17	e14	34	48	42	23	23	27
2	21	43	29	27	e18	e15	35	47	37	23	22	26
3	22	41	29	28	e18	e15	36	51	26	23	21	25
4	22	40	27	28	18	16	35	50	24	24	22	24
5	22	39	e26	26	18	15	35	48	23	25	23	22
6	21	37	e24	e20	17	16	35	46	25	26	22	21
7	30	37	e24	e18	18	16	35	45	26	26	21	20
8	34	35	29	e18	e18	16	35	45	25	26	21	19
9	21	36	28	e18	18	15	32	45	24	25	20	20
10	21	37	27	e20	e18	14	32	47	24	24	23	21
11	21	38	e24	22	e16	15	32	47	25	23	26	21
12	21	39	e20	21	e16	21	31	45	26	23	26	22
13	21	40	e22	20	e16	30	29	48	26	22	26	22
14	22	38	e24	20	e16	35	29	47	26	22	25	19
15	21	33	e24	e20	18	34	26	45	27	23	26	18
16	21	27	e24	21	17	39	23	45	27	22	26	19
17	21	30	e24	e20	17	40	23	45	28	22	25	18
18	21	30	e26	e20	16	35	23	47	27	23	25	16
19	21	32	e26	e20	e15	e32	22	50	27	23	24	16
20	21	33	e26	19	16	35	22	49	27	22	24	14
21	22	31	e26	e18	e15	45	23	62	27	22	25	14
22	21	28	28	e17	16	66	25	51	27	22	24	14
23	21	28	e26	e17	17	117	26	48	26	22	24	15
24	21	28	25	e18	16	170	27	47	25	22	22	14
25	21	30	e22	e18	14	179	27	47	25	23	24	14
26	22	31	e20	e18	e15	149	26	47	25	23	30	13
27	22	32	e18	e18	e14	84	26	53	25	23	29	13
28	22	30	e16	e18	e15	36	26	61	24	22	27	13
29	22	29	e18	e18	---	36	26	63	24	22	25	13
30	33	30	e20	e20	---	38	39	47	23	21	25	21
31	49	---	e19	e18	---	35	---	43	---	21	24	---
TOTAL	723	1029	751	627	463	1423	875	1509	793	713	750	554
MEAN	23.3	34.3	24.2	20.2	16.5	45.9	29.2	48.7	26.4	23.0	24.2	18.5
MAX	49	47	30	28	18	179	39	63	42	26	30	27
MIN	21	27	16	17	14	14	22	43	23	21	20	13
AC-FT	1430	2040	1490	1240	918	2820	1740	2990	1570	1410	1490	1100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1998, BY WATER YEAR (WY)

MEAN	38.3	29.8	20.0	16.8	19.1	38.3	47.6	108	134	67.5	37.7	37.4
MAX	145	98.3	35.6	26.4	40.0	103	200	340	654	330	99.8	161
(WY)	1987	1987	1987	1986	1995	1989	1989	1984	1985	1995	1995	1982
MIN	16.1	13.5	8.52	7.58	10.0	17.5	20.4	40.5	18.9	19.7	15.0	15.8
(WY)	1993	1990	1990	1990	1990	1981	1974	1996	1977	1972	1972	1974

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1971 - 1998	
ANNUAL TOTAL	13502		10210			
ANNUAL MEAN	37.0		28.0		50.5	
HIGHEST ANNUAL MEAN					135	1985
LOWEST ANNUAL MEAN					19.5	1977
HIGHEST DAILY MEAN	594	Jun 2	179	Mar 25	1330	Jun 8 1985
LOWEST DAILY MEAN	a14	Jan 4	b13	Sep 26	1.0	Jan 28 1981
ANNUAL SEVEN-DAY MINIMUM	15	Jan 2	14	Sep 23	6.8	Dec 31 1989
INSTANTANEOUS PEAK FLOW			246	Mar 24	3130	Aug 24 1992
INSTANTANEOUS PEAK STAGE			c3.45	Mar 24	5.14	Aug 24 1992
ANNUAL RUNOFF (AC-FT)	26780		20250		36560	
10 PERCENT EXCEEDS	42		45		101	
50 PERCENT EXCEEDS	23		24		23	
90 PERCENT EXCEEDS	17		16		15	

e-Estimated.
a-Also occurred Jan 5-7. Jan 7 was estimated.
b-Also occurred Sep 27-29.
c-Maximum gage height, 4.52 ft, Mar 1, backwater from ice.

09344400 NAVAJO RIVER BELOW OSO DIVERSION DAM, NEAR CHROMO, CO

LOCATION.--Lat 37°01'49", long 106°44'14", in NE¼ sec.9, T.32 N., R.2 E., Archuleta County, Hydrologic Unit 14080101, on left bank 600 ft downstream from Oso Diversion Dam, 5.8 mi east of Chromo, and 6.1 mi upstream from Little Navajo River.

DRAINAGE AREA.--100.5 mi^2.

PERIOD OF RECORD.--March 1971 to current year.

GAGE.--Water-stage recorder with satellite telemetry, and Parshall flume. Datum of gage is 7,648.40 ft above sea level, (levels by U. S. Bureau of Reclamation). Prior to Sept. 5, 1979, at same site, at different datum.

REMARKS.--Records good except periods of flow above 140 ft^3/s, which are fair, and estimated daily discharges, which are poor. Flows controlled by diversion dam upstream.

COOPERATION.--Records collected by U.S. Bureau of Reclamation, computed by Colorado Division of Water Resources, and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	70	52	49	39	34	43	86	86	61	56	91
2	70	66	51	49	39	36	42	90	73	61	52	80
3	78	64	51	e48	40	37	42	90	68	59	74	81
4	72	63	e48	47	40	37	43	90	61	59	78	62
5	69	62	e46	45	40	37	43	90	60	59	79	56
6	66	61	e46	e42	39	38	42	90	61	59	60	52
7	69	60	48	42	40	38	42	91	61	55	57	50
8	163	59	48	e40	40	36	43	91	61	61	57	48
9	97	60	45	e40	39	36	43	91	61	63	57	48
10	95	60	46	e40	37	37	43	91	61	62	60	46
11	113	60	47	e40	37	38	43	91	61	58	60	45
12	114	60	41	e42	38	41	43	91	61	59	65	45
13	109	62	e26	e42	38	47	42	91	60	58	62	44
14	115	60	e36	43	39	54	42	91	60	58	60	43
15	111	53	e40	e40	40	55	42	92	61	58	58	42
16	104	47	e42	42	39	58	43	92	61	57	61	43
17	98	46	e40	e40	38	52	42	92	61	56	59	45
18	93	44	e44	e40	38	e50	42	92	61	56	53	43
19	89	47	e46	e40	37	e48	43	92	62	56	52	41
20	88	52	49	e38	37	47	44	92	61	57	51	40
21	83	51	e46	40	37	47	42	92	61	56	51	39
22	80	48	e44	39	38	48	42	91	61	56	53	39
23	78	47	47	e38	38	47	42	91	60	57	65	39
24	81	48	46	e38	38	46	41	90	60	56	53	38
25	75	49	e44	44	34	44	41	90	61	57	63	38
26	73	52	e42	e40	37	42	41	91	62	57	78	38
27	77	54	45	40	35	42	41	92	59	56	59	38
28	79	52	44	40	34	42	41	94	61	56	54	37
29	77	51	e44	41	---	42	42	95	61	56	53	41
30	74	50	e44	41	---	43	65	97	62	56	52	43
31	72	---	46	40	---	43	---	95	---	56	55	---
TOTAL	2734	1658	1384	1290	1065	1342	1290	2834	1870	1791	1847	1435
MEAN	88.2	55.3	44.6	41.6	38.0	43.3	43.0	91.4	62.3	57.8	59.6	47.8
MAX	163	70	52	49	40	58	65	97	86	63	79	91
MIN	66	44	26	38	34	34	41	86	59	55	51	37
AC-FT	5420	3290	2750	2560	2110	2660	2560	5620	3710	3550	3660	2850

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1998, BY WATER YEAR (WY)

MEAN	54.8	46.6	38.7	35.6	37.2	59.5	57.4	129	155	92.5	64.8	61.1
MAX	161	132	71.9	51.3	52.7	135	183	271	720	406	124	146
(WY)	1987	1987	1987	1985	1986	1989	1993	1984	1985	1995	1982	1982
MIN	26.3	27.4	21.3	19.8	24.4	32.0	37.5	86.9	44.7	40.2	28.1	28.4
(WY)	1981	1990	1977	1990	1990	1977	1973	1996	1977	1972	1972	1978

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1971 - 1998	
ANNUAL TOTAL	23740		20540			
ANNUAL MEAN	65.0		56.3		70.1	
HIGHEST ANNUAL MEAN					158	1985
LOWEST ANNUAL MEAN					41.5	1977
HIGHEST DAILY MEAN	463	Sep 21	163	Oct 8	1160	Jun 9 1985
LOWEST DAILY MEAN	e26	Dec 13	e26	Dec 13	a10	Oct 10 1980
ANNUAL SEVEN-DAY MINIMUM	33	Jan 3	35	Feb 25	13	Oct 7 1980
INSTANTANEOUS PEAK FLOW			322	Oct 8	1330	May 24 1984
INSTANTANEOUS PEAK STAGE			3.45	Oct 8	b4.92	May 24 1984
ANNUAL RUNOFF (AC-FT)	47090		40740		50790	
10 PERCENT EXCEEDS	93		90		117	
50 PERCENT EXCEEDS	56		52		48	
90 PERCENT EXCEEDS	37		38		31	

e-Estimated.
a-Also occurred Oct 11, 1981.
b-Maximum gage height, 5.07 ft, Feb 13, 1994, backwater from ice.

09346400 SAN JUAN RIVER NEAR CARRACAS, CO

LOCATION.--Lat 37°00'49", long 107°18'42", in SE¼SW¼ sec.17, T.32 N., R.4 W., Archuleta County, Hydrologic Unit 14080101, on right bank just upstream from flow line of Navajo Reservoir, 3 mi northwest of Carracas, 7.2 mi upstream from Piedra River, and at mile 332.8.

DRAINAGE AREA.--1,230 mi^2, approximately.

PERIOD OF RECORD.--Streamflow records, October 1961 to current year. Water-quality data available, July 1969 to August 1973. Sediment data available, August 1973. Statistical summary computed for 1971 to current year.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,090 ft above sea level, from river-profile map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of about 11,000 acres upstream from station. Highwater diversions upstream from station into Rio Grande basin through Azotea tunnel (station 08284160) began in March 1971. 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.--Major floods occurred Sept. 5 or 6, 1909; Oct. 5, 1911; June 29, 1927.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	401	392	336	e220	e190	e155	729	1360	2040	659	380	225
2	369	371	e320	e230	e180	163	810	1410	2150	629	469	282
3	369	348	e315	e245	e190	167	662	1580	2190	576	364	265
4	387	344	e290	e265	e200	226	861	1830	1910	574	341	230
5	330	334	e250	e250	e190	291	813	1870	1500	550	554	193
6	306	326	e250	e230	e190	337	818	1680	1230	503	531	176
7	293	319	e265	e185	e190	289	720	1480	1140	494	391	164
8	781	310	e290	e190	e190	230	686	1400	1100	520	324	160
9	531	313	e310	e200	e190	213	608	1270	1100	593	292	155
10	463	329	e280	e210	e180	218	577	1340	1060	697	273	152
11	971	342	e260	e230	e175	239	664	1550	959	773	283	147
12	1100	403	e230	e240	e175	307	914	1590	894	571	287	148
13	844	411	e200	e220	e175	396	900	1630	994	498	271	148
14	778	390	e240	e210	e180	477	808	1790	1010	433	267	142
15	721	352	e260	e195	e190	526	702	1550	995	382	260	133
16	650	295	e260	e180	e185	599	639	1420	1010	339	352	128
17	610	283	e250	e215	e180	732	605	1390	1020	324	218	130
18	589	295	e250	e200	e180	829	618	1590	914	301	199	127
19	551	299	e260	e190	e180	547	548	1850	877	282	192	118
20	517	323	e250	e190	e175	550	576	2100	942	262	190	113
21	496	318	e240	e200	e185	568	632	2230	960	256	265	110
22	468	300	e240	e170	e185	697	758	2470	1000	250	284	107
23	444	286	e255	e180	185	925	990	2100	976	237	237	108
24	471	292	e260	e180	e185	1360	1240	1950	924	243	194	108
25	452	294	e245	e190	e180	1590	1430	1830	836	270	186	105
26	409	314	e230	e190	e175	1520	1290	1850	788	355	240	100
27	418	366	e180	e180	e165	1400	1070	1920	766	456	243	98
28	424	355	e180	e190	e150	1190	1050	2090	767	453	204	98
29	410	335	e195	e190	---	1080	1010	2290	764	496	182	99
30	392	317	e190	e190	---	797	1140	2360	724	437	174	117
31	397	---	e210	e200	---	758	---	2080	---	348	174	---
TOTAL	16342	9956	7791	6355	5095	19376	24868	54850	33540	13761	8821	4386
MEAN	527	332	251	205	182	625	829	1769	1118	444	285	146
MAX	1100	411	336	265	200	1590	1430	2470	2190	773	554	282
MIN	293	283	180	170	150	155	548	1270	724	237	174	98
AC-FT	32410	19750	15450	12610	10110	38430	49330	108800	66530	27290	17500	8700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1998, BY WATER YEAR (WY)

MEAN	317	248	178	161	201	626	1097	1772	1857	676	331	294
MAX	932	983	406	296	481	1369	2524	3195	4039	2427	733	880
(WY)	1987	1987	1987	1987	1986	1995	1979	1973	1985	1995	1993	1982
MIN	106	104	72.9	74.7	85.0	134	233	395	251	132	69.0	61.2
(WY)	1979	1990	1990	1990	1990	1977	1977	1977	1977	1972	1972	1978

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1971 - 1998	
ANNUAL TOTAL	268276		205141			
ANNUAL MEAN	735		562		a647	
HIGHEST ANNUAL MEAN					b1191	1985
LOWEST ANNUAL MEAN					b200	1977
HIGHEST DAILY MEAN	3820	Jun 2	2470	May 22	b6700	Mar 12 1985
LOWEST DAILY MEAN	e130	Jan 15	c98	Sep 27	d28	Sep 14 1974
ANNUAL SEVEN-DAY MINIMUM	144	Jan 9	102	Sep 23	39	Sep 14 1978
INSTANTANEOUS PEAK FLOW			2790	May 22	f8590	Mar 6 1995
INSTANTANEOUS PEAK STAGE			g4.80	May 22	h8.10	Mar 6 1995
ANNUAL RUNOFF (AC-FT)	532100		406900		468900	
10 PERCENT EXCEEDS	1930		1390		1740	
50 PERCENT EXCEEDS	409		334		290	
90 PERCENT EXCEEDS	170		175		113	

e-Estimated.
a-Average discharge for 9 years (water years 1962-70), 632 ft^3/s; 457900 acre-ft/yr, prior to completion of Azotea tunnel.
b-Also the highest (or lowest, as is appropriate) for the period of record.
c-Also occurred Sep 28.
d-Also minimum daily discharge for period of record, (corrected).
f-Maximum discharge for period of record, 9730 ft^3/s, Sep 6, 1970, gage height, 8.34 ft, from rating curve extended above 6000 ft^3/s, on basis of slope-area measurement of peak flow.
g-Maximum gage height, 8.94 ft, Dec 31, backwater from ice.
h-Maximum gage height for statistical period, and period of record, 9.63 ft, Jan 4, 1994, backwater from ice.

09349800 PIEDRA RIVER NEAR ARBOLES, CO

LOCATION.--Lat 37°05'18", long 107°23'50", in NE¼SW¼ 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.

DRAINAGE AREA.--629 mi^2.

PERIOD OF RECORD.--August 1962 to current year. Gage operated 1895-99 and 1910-27 at site 7.5 mi downstream at elevation 6,000 ft. Low-flow records probably not equivalent. Water-quality data available, July 1969 to August 1973, December 1988 to May 1989.

GAGE.--Water-stage recorder with satellite telemetry, and crest-stage gage. Datum of gage is 6,147.52 ft above sea level, Colorado State Highway Department benchmark.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 2,800 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.--Major floods occurred Sept. 5 or 6, 1909, and Oct. 5, 1911.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	438	187	134	e105	76	e78	566	1180	1270	344	447	188
2	367	174	137	e110	76	e83	652	1250	1350	311	535	245
3	377	170	135	114	79	87	541	1360	1370	281	404	235
4	342	167	119	117	83	93	643	1500	1180	278	351	206
5	296	163	105	115	83	96	710	1500	932	256	372	179
6	267	157	109	99	83	111	725	1360	784	240	317	157
7	251	153	116	88	85	109	610	1220	733	250	268	142
8	345	149	144	e87	82	99	548	1170	691	312	233	131
9	302	147	128	e90	82	104	494	1020	665	431	205	125
10	291	157	121	e96	79	106	462	1020	628	530	187	119
11	661	164	113	105	76	113	563	1140	569	546	177	121
12	675	173	93	101	76	122	732	1160	520	419	170	122
13	523	169	86	98	77	137	657	1160	573	354	153	138
14	476	156	e105	95	85	166	608	1210	580	293	155	129
15	427	140	e115	86	86	193	560	1030	575	256	160	115
16	388	109	e120	e80	84	238	529	946	589	227	166	111
17	357	114	e110	e88	83	298	498	920	599	214	146	109
18	330	119	e115	91	81	321	496	1050	550	197	151	101
19	305	131	e115	90	77	250	442	1180	535	186	139	95
20	282	138	e110	e88	79	262	471	1260	587	160	125	87
21	262	128	e110	85	e80	271	514	1340	599	159	154	82
22	247	121	109	80	e79	343	630	1390	603	150	247	81
23	235	112	115	e77	e79	544	857	1260	583	144	177	80
24	247	115	111	82	e80	873	1150	1190	526	150	158	79
25	222	119	108	79	e80	1180	1290	1080	458	302	180	76
26	207	135	96	77	80	1270	1180	1110	433	337	220	73
27	220	144	78	78	70	1210	986	1180	423	458	227	68
28	218	141	e86	76	72	1060	973	1300	412	431	187	67
29	209	134	e88	75	---	844	953	1420	395	452	157	68
30	197	127	e95	76	---	649	1030	1460	373	415	149	75
31	193	---	e100	78	---	568	---	1290	---	341	148	---
TOTAL	10157	4313	3426	2806	2232	11878	21070	37656	20085	9424	6865	3604
MEAN	328	144	111	90.5	79.7	383	702	1215	670	304	221	120
MAX	675	187	144	117	86	1270	1290	1500	1370	546	535	245
MIN	193	109	78	75	70	78	442	920	373	144	125	67
AC-FT	20150	8550	6800	5570	4430	23560	41790	74690	39840	18690	13620	7150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1998, BY WATER YEAR (WY)

MEAN	178	127	91.1	76.4	95.2	334	886	1315	1071	353	213	214
MAX	618	517	257	153	244	895	2126	2926	2526	1133	551	943
(WY)	1973	1987	1987	1987	1986	1995	1979	1979	1979	1975	1968	1970
MIN	51.2	48.4	31.2	31.2	34.7	47.4	126	168	121	69.8	37.0	35.3
(WY)	1979	1968	1990	1990	1964	1964	1977	1977	1977	1972	1972	1978

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1963 - 1998	
ANNUAL TOTAL	230760		133516			
ANNUAL MEAN	632		366		413	
HIGHEST ANNUAL MEAN					822	1979
LOWEST ANNUAL MEAN					94.0	1977
HIGHEST DAILY MEAN	3080	May 22	a1500	May 4	5360	Sep 6 1970
LOWEST DAILY MEAN	e,b70	Jan 14	67	Sep 28	19	Nov 29 1989
ANNUAL SEVEN-DAY MINIMUM	74	Jan 9	72	Sep 24	26	Dec 11 1989
INSTANTANEOUS PEAK FLOW			1620	May 5	c8370	Sep 6 1970
INSTANTANEOUS PEAK STAGE			3.46	May 5	d6.38	Sep 6 1970
ANNUAL RUNOFF (AC-FT)	457700		264800		299500	
10 PERCENT EXCEEDS	1730		1050		1210	
50 PERCENT EXCEEDS	296		187		152	
90 PERCENT EXCEEDS	94		80		55	

e-Estimated.
a-Also occurred May 5.
b-Also occurred Jan 15.
c-From rating curve extended above 4,400 ft^3/s, on basis of slope-area measurement of peak flow.
d-Gage height, 6.38 ft, recorded, 7.55 ft, from floodmarks.

09352900 VALLECITO CREEK NEAR BAYFIELD, CO
(Hydrologic Benchmark Station)

LOCATION.--Lat 37°28'39", long 107°32'35", in NE¼NW¼ 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.--72.1 mi^2.

PERIOD OF RECORD.--October 1962 to current year. Water-quality data available, October 1963 to September 1968, and October 1969 to September 1996.

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. 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.--Major floods occurred in October 1911 and June 1927.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	84	44	26	e19	e18	67	209	635	328	181	136
2	112	79	44	25	e19	e18	58	233	692	311	157	310
3	115	75	42	26	19	e18	54	282	640	317	124	180
4	108	72	e40	26	19	e18	53	338	478	374	112	140
5	103	69	41	26	19	18	51	327	342	307	110	117
6	99	67	41	e22	18	16	52	270	310	311	103	104
7	102	65	43	e23	19	e18	50	230	328	401	94	93
8	119	62	42	e25	18	e19	48	220	307	395	88	84
9	112	62	39	e25	e17	e20	46	196	314	383	82	76
10	126	62	e36	26	e17	e20	46	222	290	448	78	71
11	322	62	e30	25	e17	e20	51	271	247	344	76	73
12	240	62	e32	24	e18	20	56	296	264	276	70	91
13	198	61	e34	23	e18	23	54	310	351	229	70	105
14	184	58	e34	e21	18	24	52	313	329	201	68	90
15	169	49	e34	e22	19	23	51	242	347	175	68	116
16	159	e43	34	e22	e18	27	48	225	354	164	65	95
17	152	e46	34	22	18	29	47	244	329	158	65	86
18	144	e50	34	e21	17	28	46	308	272	150	79	77
19	135	e50	32	e21	e18	27	47	356	340	137	67	70
20	127	e43	31	e20	e18	28	51	397	396	127	63	65
21	121	e43	31	e19	e18	31	58	457	402	119	158	61
22	115	e44	30	e20	e18	39	76	447	420	117	139	58
23	110	e44	29	e20	18	54	112	432	403	110	107	55
24	106	e44	28	e20	17	76	142	448	359	114	100	53
25	100	44	e25	e20	e16	94	145	418	336	166	109	50
26	101	45	e23	e21	e15	96	130	486	348	185	117	48
27	99	45	e23	21	e16	83	120	541	371	222	108	46
28	97	49	e24	e21	e17	77	123	658	374	239	97	44
29	94	47	e26	21	---	47	126	697	365	179	87	47
30	91	46	e26	20	---	75	158	637	341	142	82	71
31	89	---	27	e19	---	87	---	576	---	132	79	---
TOTAL	4065	1672	1033	693	498	1191	2218	11286	11284	7261	3003	2712
MEAN	131	55.7	33.3	22.4	17.8	38.4	73.9	364	376	234	96.9	90.4
MAX	322	84	44	26	19	96	158	697	692	448	181	310
MIN	89	43	23	19	15	16	46	196	247	110	63	44
AC-FT	8060	3320	2050	1370	988	2360	4400	22390	22380	14400	5960	5380

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1998, BY WATER YEAR (WY)

MEAN	80.4	44.7	27.8	21.3	20.4	35.0	112	400	532	251	133	117
MAX	280	104	52.0	42.5	44.5	80.8	226	629	927	596	251	455
(WY)	1973	1987	1986	1986	1986	1989	1989	1993	1980	1995	1997	1970
MIN	22.3	16.7	9.89	9.51	8.42	9.11	40.3	138	152	80.5	44.1	25.1
(WY)	1979	1976	1977	1977	1977	1977	1964	1977	1977	1972	1996	1978

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1963 - 1998	
ANNUAL TOTAL	78707		46916			
ANNUAL MEAN	216		129		148	
HIGHEST ANNUAL MEAN					226	1973
LOWEST ANNUAL MEAN					63.3	1977
HIGHEST DAILY MEAN	1140	Jun 2	697	May 29	3020	Sep 6 1970
LOWEST DAILY MEAN	15	Feb 28	e15	Feb 26	6.7	Dec 28 1976
ANNUAL SEVEN-DAY MINIMUM	20	Jan 12	17	Feb 22	7.4	Dec 23 1976
INSTANTANEOUS PEAK FLOW			898	Jun 2	a7050	Sep 6 1970
INSTANTANEOUS PEAK STAGE			2.69	Jun 2	b6.51	Sep 6 1970
ANNUAL RUNOFF (AC-FT)	156100		93060		107400	
10 PERCENT EXCEEDS	610		341		417	
50 PERCENT EXCEEDS	102		72		62	
90 PERCENT EXCEEDS	22		19		18	

e-Estimated.
a-From rating curve extended above 1400 ft^3/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.

09353000 VALLECITO RESERVOIR NEAR BAYFIELD, CO

LOCATION.--Lat 37°23'00", long 107°34'30", in SW¼SW¼ 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.--270 mi^2, approximately.

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

REVISED RECORDS.--WSP 959: 1941. WSP 1513: 1956.

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 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 FOR CURRENT YEAR.--Maximum contents, 119,250 acre-ft, June 23, elevation, 7,662.71 ft; minimum, 63,180 acre- ft, Sept. 30, elevation, 7,639.48 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0900, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	7,650.72	88,890	-
Oct. 31	7,645.29	75,940	-12,950
Nov. 30	7,643.76	72,480	-3,460
Dec. 31	7,643.55	72,010	-470
CAL YR 1997	-	-	+21,600
Jan. 31	7,643.76	72,480	+470
Feb. 28	7,644.56	74,280	+1800
Mar. 31	7,644.70	74,600	+320
Apr. 30	7,646.52	78,760	+4,160
May 31	7,659.49	110,760	+32,000
June 30	7,662.30	118,160	+7,400
July 31	7,657.99	106,880	-11,280
Aug. 31	7,648.96	84,490	-22,390
Sept. 30	7,639.48	63,180	-21,310
WTR YR 1998	-	-	-25,710

09354500 LOS PINOS RIVER AT LA BOCA, CO

LOCATION.--Lat 37°00'34", long 107°35'56", in NE¼NW¼ 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.--510 mi^2, approximately.

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.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,143.59 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Vallecito Reservoir (station 09353000) 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	550	115	148	e150	e64	e92	309	224	148	141	219	178
2	532	274	e160	e155	e68	e96	331	230	138	183	218	167
3	532	344	e150	e155	e69	99	394	234	134	113	186	161
4	520	353	e145	e150	e72	132	405	254	149	138	164	152
5	487	336	e150	e145	e72	167	346	197	261	143	176	147
6	473	331	e155	e135	e72	161	336	213	244	151	174	141
7	452	331	e160	e130	e68	161	318	168	175	296	163	138
8	489	331	e150	e130	e66	131	300	150	155	276	153	134
9	490	331	e150	e135	e69	147	322	164	165	233	142	138
10	481	340	e150	e140	69	135	313	150	165	370	149	143
11	538	331	e145	e145	e65	123	326	191	171	209	144	156
12	561	280	e135	e145	e64	127	375	176	174	181	127	158
13	544	263	e135	145	64	135	380	126	167	171	146	178
14	528	255	e140	145	e67	142	358	147	161	147	159	158
15	484	245	e140	140	e64	152	336	143	146	135	149	149
16	540	238	e135	142	e68	170	325	178	138	133	155	152
17	550	207	e135	100	e70	195	318	168	139	141	150	157
18	550	185	e140	89	73	202	304	153	135	142	139	156
19	544	182	e145	81	71	171	295	138	138	140	131	149
20	544	182	e140	81	77	170	295	134	138	133	130	141
21	550	182	e135	76	85	330	308	131	140	129	414	139
22	550	188	143	e72	105	405	339	132	135	123	262	136
23	562	188	145	e70	112	367	389	136	131	134	179	144
24	558	188	e135	e72	132	294	445	141	132	146	161	132
25	355	185	e130	e68	130	335	468	137	128	195	159	134
26	367	182	e125	e68	113	362	446	136	126	179	171	134
27	363	192	e125	e74	105	807	396	125	126	202	174	141
28	363	192	e130	e76	e100	706	343	123	128	348	151	143
29	363	159	e140	e74	---	618	288	119	126	198	145	143
30	214	148	e145	67	---	460	230	132	123	166	149	232
31	128	---	e145	71	---	320	---	140	---	167	143	---
TOTAL	14762	7258	4406	3426	2254	7912	10338	4990	4536	5563	5282	4531
MEAN	476	242	142	111	80.5	255	345	161	151	179	170	151
MAX	562	353	160	155	132	807	468	254	261	370	414	232
MIN	128	115	125	67	64	92	230	119	123	113	127	132
AC-FT	29280	14400	8740	6800	4470	15690	20510	9900	9000	11030	10480	8990

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1998, BY WATER YEAR (WY)

MEAN	198	139	103	76.3	99.5	225	353	439	512	305	220	213
MAX	672	709	396	182	362	972	1339	1719	1555	1381	878	725
(WY)	1987	1987	1983	1985	1993	1993	1979	1958	1979	1957	1957	1997
MIN	47.9	32.1	33.8	33.9	38.6	45.1	22.8	44.3	74.5	81.6	80.4	58.3
(WY)	1978	1960	1964	1978	1978	1977	1951	1951	1977	1959	1977	1951

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1951 - 1998	
ANNUAL TOTAL	163742		75258			
ANNUAL MEAN	449		206		244	
HIGHEST ANNUAL MEAN					582	1973
LOWEST ANNUAL MEAN					77.4	1959
HIGHEST DAILY MEAN	a1980	Jun 8	807	Mar 27	4560	Jul 27 1957
LOWEST DAILY MEAN	e,43	Jan 15	e,c64	Feb 1	6.1	May 1 1977
ANNUAL SEVEN-DAY MINIMUM	b48	Jan 9	66	Feb 10	8.3	Apr 30 1977
INSTANTANEOUS PEAK FLOW			873	Mar 27	d6400	Jul 27 1957
INSTANTANEOUS PEAK STAGE			5.38	Mar 27	f8.95	Jul 27 1957
ANNUAL RUNOFF (AC-FT)	324800		149300		176800	
10 PERCENT EXCEEDS	935		391		550	
50 PERCENT EXCEEDS	331		150		134	
90 PERCENT EXCEEDS	56		94		50	

e-Estimated.
a-Also occurred Jul 31.
b-Also occurred Feb 7.
c-Also occurred Feb 12, 13 (not estimated), and 15.
d-From rating curve extended above 5100 ft^3/s.
f-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 SE¼SW¼ sec.15, T.32 N., R.7 W., La Plata County, Hydrologic Unit 14080101, on right bank in an excavated channel, 0.2 mi upstream from mouth, and 0.2 mi east of La Boca.

DRAINAGE AREA.--58 mi^2, approximately.

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.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	4.6	e6.8	e5.6	e4.7	3.3	3.3	22	26	48	93	63
2	36	4.4	e6.5	e5.8	e5.0	2.8	3.9	28	31	55	61	57
3	42	4.6	e6.2	e5.6	e5.2	2.2	4.3	28	29	53	51	50
4	43	4.7	e6.0	e5.3	e5.0	2.8	4.6	26	36	60	50	50
5	43	4.5	e6.2	e4.8	e5.0	3.1	4.3	14	40	59	51	47
6	45	4.8	e6.4	e4.6	e4.8	4.0	3.9	18	41	55	55	44
7	44	4.8	e6.6	e4.6	e4.5	7.3	3.7	17	46	109	60	46
8	50	4.9	e6.4	e4.8	e4.7	5.5	3.5	17	48	92	56	49
9	47	5.0	e6.0	e5.2	e4.8	2.7	3.1	22	45	102	56	46
10	48	5.4	e5.8	e5.4	e4.6	1.9	2.0	22	44	194	56	52
11	56	6.1	e5.7	e5.4	e4.4	1.7	1.8	22	48	44	55	57
12	43	11	e5.4	e5.2	e4.8	1.6	1.8	23	55	43	51	57
13	36	9.0	e5.6	e5.0	e4.8	1.5	4.2	23	52	46	51	63
14	36	7.3	e5.6	e5.0	e4.5	1.7	3.7	26	48	48	53	54
15	35	6.7	e5.4	e5.4	e4.6	2.0	3.6	27	45	47	54	52
16	33	e7.0	e5.3	e5.6	e4.8	2.4	3.4	28	46	44	56	54
17	35	e7.0	e5.6	e4.8	e4.8	2.4	4.0	31	49	50	56	56
18	36	e7.2	e5.8	e5.0	e4.8	6.0	3.4	31	55	55	50	57
19	33	7.3	e5.5	e5.3	e4.8	4.0	2.6	28	50	57	48	54
20	34	7.4	e5.4	e4.8	e4.5	2.2	1.9	29	55	52	44	53
21	34	7.2	e5.8	e4.8	e4.4	1.9	1.6	27	56	43	142	49
22	34	e6.8	e5.8	e5.0	e4.6	1.6	1.5	23	54	43	67	46
23	36	e6.6	e5.5	e5.0	4.5	1.5	1.7	23	46	48	44	54
24	47	e6.4	e5.2	e4.7	e4.8	1.5	2.1	24	47	58	45	49
25	30	e6.8	e4.8	e4.7	e4.5	2.0	2.3	23	48	70	47	45
26	18	e7.0	e4.5	e5.2	e4.2	2.6	2.4	22	42	76	47	48
27	8.2	e6.8	e4.7	e5.2	e3.7	9.0	2.3	20	41	85	48	49
28	6.6	e6.6	e5.0	e5.0	3.2	12	1.5	19	46	158	46	52
29	5.8	e6.5	e5.5	e5.2	---	8.2	1.5	21	46	65	45	57
30	5.4	e6.6	e5.4	e4.7	---	5.4	35	20	50	48	47	72
31	5.0	---	e5.4	e4.4	---	4.0	---	26	---	52	46	---
TOTAL	1038.0	191.0	175.8	157.1	129.0	110.8	118.9	730	1365	2059	1731	1582
MEAN	33.5	6.37	5.67	5.07	4.61	3.57	3.96	23.5	45.5	66.4	55.8	52.7
MAX	56	11	6.8	5.8	5.2	12	35	31	56	194	142	72
MIN	5.0	4.4	4.5	4.4	3.2	1.5	1.5	14	26	43	44	44
AC-FT	2060	379	349	312	256	220	236	1450	2710	4080	3430	3140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1998, BY WATER YEAR (WY)

MEAN	34.8	10.6	5.54	4.77	10.1	19.0	13.6	39.5	57.7	67.6	66.7	59.2
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	2.24	2.52	3.77	15.7	24.4	21.2	32.1	26.5
(WY)	1978	1978	1960	1973	1996	1996	1978	1978	1977	1977	1977	1951

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1951 - 1998	
ANNUAL TOTAL	12891.3		9387.6			
ANNUAL MEAN	35.3		25.7		32.8	
HIGHEST ANNUAL MEAN					47.7	1987
LOWEST ANNUAL MEAN					15.6	1977
HIGHEST DAILY MEAN	260	Sep 21	194	Jul 10	918	Mar 6 1995
LOWEST DAILY MEAN	4.4	Nov 2	a1.5	Mar 13	1.0	Feb 25 1951
ANNUAL SEVEN-DAY MINIMUM	4.6	Nov 1	1.8	Mar 10	1.0	Dec 7 1959
INSTANTANEOUS PEAK FLOW			362	Jul 10	b1980	Sep 6 1970
INSTANTANEOUS PEAK STAGE			3.14	Jul 10	c4.62	Sep 6 1970
ANNUAL RUNOFF (AC-FT)	25570		18620		23790	
10 PERCENT EXCEEDS	70		55		72	
50 PERCENT EXCEEDS	30		9.0		23	
90 PERCENT EXCEEDS	6.0		3.3		3.3	

e-Estimated.
a-Also occurred Mar 23, 24, Apr 22, 28, and 29.
b-From rating curve extended above 160 ft^3/s, on the basis of field estimate of peak flow.
c-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 SE¼NW¼ 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 mi^2.

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. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	92	e52	e37	e27	e20	e40	106	587	508	143	71
2	175	84	e51	e39	e28	e22	e37	125	660	487	130	84
3	187	84	e50	e39	e30	e24	e36	167	640	455	116	74
4	162	83	e48	e38	e31	e26	e36	195	480	515	108	70
5	148	79	e47	e36	e30	e26	e36	184	327	433	105	65
6	138	e75	e49	e33	e30	e26	e37	162	284	424	95	63
7	141	e74	e51	e32	e28	e26	e37	139	281	445	88	61
8	145	e70	e49	e32	e27	e24	e35	128	266	425	84	58
9	134	e70	e47	e33	e28	e22	e34	118	288	363	82	57
10	140	e70	e46	e34	e28	e24	30	131	291	389	83	55
11	179	e72	e44	e36	e26	e25	36	154	262	358	83	56
12	166	e73	e42	e37	e25	e26	39	165	292	324	77	70
13	159	e72	e39	e37	e24	e26	36	172	382	282	75	71
14	159	e66	e40	e35	e26	e26	35	177	340	244	76	67
15	160	e60	e40	e34	e25	e25	34	147	335	225	76	69
16	148	e56	e38	e36	e24	e25	31	145	378	208	70	64
17	138	e58	e38	e37	e25	e26	30	167	370	199	69	62
18	139	e58	e40	e32	e25	e25	28	208	302	189	74	61
19	135	e60	e39	e33	e25	e26	28	240	405	177	67	57
20	132	e58	e38	e34	e25	e27	31	274	520	166	65	54
21	126	e58	e38	e32	e24	e28	36	340	554	159	70	52
22	120	e55	e39	e30	e22	e31	43	347	597	156	69	e51
23	115	e50	e39	e31	e23	e36	55	306	582	152	64	e48
24	114	e50	e37	e31	e24	e42	66	311	533	148	65	e47
25	111	e53	e35	e30	e25	e49	67	271	505	166	70	e46
26	104	e55	e31	e32	e24	e50	63	328	541	149	72	e45
27	99	e55	e31	e32	e23	e44	61	402	588	151	68	e44
28	100	e54	e34	e31	e22	e39	66	504	593	153	64	e44
29	99	e52	e36	e31	---	e36	72	570	570	145	62	e48
30	97	e52	e38	e32	---	e36	88	553	536	133	61	e49
31	95	---	e38	e30	---	e38	---	513	---	124	60	---
TOTAL	4229	1948	1284	1046	724	926	1303	7749	13289	8452	2491	1763
MEAN	136	64.9	41.4	33.7	25.9	29.9	43.4	250	443	273	80.4	58.8
MAX	187	92	52	39	31	50	88	570	660	515	143	84
MIN	95	50	31	30	22	20	28	106	262	124	60	44
AC-FT	8390	3860	2550	2070	1440	1840	2580	15370	26360	16760	4940	3500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1998, BY WATER YEAR (WY)

MEAN	68.7	40.7	29.7	26.4	26.0	31.0	56.1	308	578	340	128	78.6
MAX	136	64.9	41.4	33.8	36.1	43.3	69.4	454	794	734	253	126
(WY)	1998	1998	1998	1995	1995	1995	1996	1996	1997	1995	1995	1997
MIN	33.4	27.0	18.9	13.8	15.7	18.6	39.6	147	403	122	44.4	53.0
(WY)	1993	1993	1992	1992	1992	1992	1993	1995	1992	1996	1996	1996

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1992 - 1998	
ANNUAL TOTAL	67427		45204			
ANNUAL MEAN	185		124		143	
HIGHEST ANNUAL MEAN					194	1995
LOWEST ANNUAL MEAN					103	1992
HIGHEST DAILY MEAN	1180	Jun 4	660	Jun 2	1180	Jun 4 1997
LOWEST DAILY MEAN	e25	Jan 14	e20	Mar 1	12	Jan 1 1992
ANNUAL SEVEN-DAY MINIMUM	28	Mar 4	23	Feb 24	13	Jan 16 1992
INSTANTANEOUS PEAK FLOW			906	Jun 2	1470	Jun 4 1997
INSTANTANEOUS PEAK STAGE			4.05	Jun 2	a3.99	Jun 4 1997
ANNUAL RUNOFF (AC-FT)	133700		89660		103600	
10 PERCENT EXCEEDS	539		343		405	
50 PERCENT EXCEEDS	83		62		51	
90 PERCENT EXCEEDS	30		26		22	

e-Estimated.
a-Maximum gage height during period Jun to Oct 1903, 4.90 ft, Jun 17, 1903, site and datum then in use, maximum discharge unknown.

09358550 CEMENT CREEK AT SILVERTON, CO

LOCATION.--Lat 37°49'11", long 107°39'47", in SW¼SW¼ 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 mi^2.

PERIOD OF RECORD.--October 1991 to September 1993, October 1994 to current year.

GAGE.--Water-stage recorder. 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. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	21	16	e15	e13	e13	16	65	193	109	36	19
2	28	20	16	e16	e14	e13	16	73	209	101	30	18
3	31	19	e15	e16	e14	14	15	88	183	98	27	18
4	25	e18	e15	e15	e14	e13	15	94	137	104	25	17
5	23	e18	e15	e14	e14	14	15	80	102	93	24	17
6	22	18	e16	e13	e13	e14	15	61	90	91	23	16
7	24	17	e16	e13	e13	e12	15	49	88	91	22	16
8	26	e17	e15	e13	e13	e13	15	43	84	84	21	16
9	26	e17	e15	e14	e14	14	14	41	85	74	21	16
10	27	e17	e14	e15	e13	13	14	55	85	75	23	16
11	51	18	e14	e15	e14	13	17	69	77	73	21	16
12	42	e16	e14	e15	e14	e13	18	74	80	69	20	24
13	38	e16	e14	e14	e14	e13	17	81	95	63	21	20
14	38	e16	e14	e14	e13	e13	16	81	94	57	24	20
15	38	16	e14	e15	e14	e13	16	62	96	54	20	19
16	36	e16	e14	e14	e14	e13	15	63	98	51	19	18
17	35	e16	e15	e14	e14	e13	15	80	93	50	20	18
18	34	e16	e15	e15	e14	e13	15	96	86	48	21	18
19	33	17	e14	e14	e14	14	15	102	103	46	19	18
20	31	e16	e14	e13	e13	14	16	112	117	43	18	18
21	29	e16	e15	e13	e13	15	19	141	117	42	19	18
22	26	16	e15	e14	e13	16	27	134	125	40	18	17
23	25	e16	e14	e13	e14	19	42	116	126	39	17	17
24	24	16	e13	e13	15	22	49	112	116	38	19	17
25	24	16	e13	e14	e13	26	40	105	113	37	20	17
26	23	17	e13	e15	e13	24	30	126	117	34	20	17
27	23	17	e13	e14	e13	20	27	149	124	34	18	17
28	22	16	e14	e14	e13	18	32	176	124	34	17	17
29	21	e15	e15	e14	---	16	43	196	122	33	17	18
30	21	16	e15	e13	---	17	59	190	113	31	17	18
31	21	---	e15	e13	---	16	---	178	---	31	18	---
TOTAL	895	506	450	437	380	474	678	3092	3392	1867	655	531
MEAN	28.9	16.9	14.5	14.1	13.6	15.3	22.6	99.7	113	60.2	21.1	17.7
MAX	51	21	16	16	15	26	59	196	209	109	36	24
MIN	21	15	13	13	13	12	14	41	77	31	17	16
AC-FT	1780	1000	893	867	754	940	1340	6130	6730	3700	1300	1050

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1998, BY WATER YEAR (WY)

MEAN	19.8	16.0	13.4	12.9	13.5	16.7	28.2	106	154	70.6	27.7	21.8
MAX	28.9	17.8	15.6	15.8	17.8	22.7	35.4	145	263	149	45.9	28.9
(WY)	1998	1995	1995	1995	1995	1995	1996	1996	1995	1995	1995	1997
MIN	14.0	13.3	10.6	8.63	9.91	13.4	22.6	57.2	85.2	29.3	18.1	17.5
(WY)	1992	1992	1992	1992	1993	1993	1998	1995	1996	1996	1996	1996

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1992 - 1998	
ANNUAL TOTAL	16735		13357			
ANNUAL MEAN	45.8		36.6		41.8	
HIGHEST ANNUAL MEAN					56.3	1995
LOWEST ANNUAL MEAN					32.1	1992
HIGHEST DAILY MEAN	288	Jun 1	209	Jun 2	385	Jun 16 1995
LOWEST DAILY MEAN	e12	Jan 14	e12	Mar 7	7.5	Jan 2 1992
ANNUAL SEVEN-DAY MINIMUM	13	Jan 25	13	Mar 7	8.4	Dec 30 1991
INSTANTANEOUS PEAK FLOW			246	Jun 2	471	Jun 14 1995
INSTANTANEOUS PEAK STAGE			a2.05	Jun 2	2.85	Jun 14 1995
ANNUAL RUNOFF (AC-FT)	33190		26490		30250	
10 PERCENT EXCEEDS	137		96		109	
50 PERCENT EXCEEDS	22		18		19	
90 PERCENT EXCEEDS	13		13		13	

e-Estimated.
a-Maximum gage-height, 2.61 ft, Dec 29, backwater from ice.

09359010 MINERAL CREEK AT SILVERTON, CO

LOCATION.--Lat 37°48'10", long 107°40'20", in NW¼NE¼ 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 mi^2.

PERIOD OF RECORD.--October 1991 to September 1993, October 1994 to current year. Statistics do not include period of no record.

GAGE.--Water-stage recorder. Datum of gage is 9245.98 ft above sea level, from San Juan County bench mark.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural regulation by many lakes upstream from station. Diversions upstream from Mineral Creek drainage to Uncompahgre 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 ft^3/s, gage height not determined.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	63	e38	e28	e21	e16	e29	108	465	382	163	89
2	104	e58	e37	e29	e21	e18	e25	133	528	362	129	94
3	118	e57	e36	e29	e23	e20	e25	173	516	340	108	80
4	99	e55	e35	e29	e24	e21	27	186	389	365	98	75
5	92	e54	e35	e27	e23	e21	27	165	278	327	91	67
6	88	e51	e36	e25	e23	e21	e25	138	245	345	83	62
7	92	e50	e37	e24	e22	e21	27	111	249	330	77	58
8	97	e49	e36	e24	e21	e19	e25	99	235	305	72	54
9	89	e49	e35	e25	e22	e17	26	93	245	269	70	51
10	98	e50	e33	e26	e21	e18	26	112	243	319	71	49
11	152	e51	e32	e27	e20	e20	28	139	222	288	68	49
12	136	e51	e31	e28	e19	e21	29	152	233	269	63	84
13	121	e50	e29	e28	e19	e21	27	158	292	235	63	86
14	119	e47	e30	e26	e20	e21	26	156	290	209	76	71
15	117	e48	e30	e26	e20	e20	25	124	296	194	74	68
16	114	e48	e28	e27	e19	e20	23	121	317	179	66	64
17	110	e48	e28	e28	e20	22	23	147	299	172	68	59
18	106	e44	e29	e25	e20	e20	22	187	268	164	79	56
19	100	e44	e30	e26	e20	e21	23	205	346	156	69	52
20	96	e43	e29	e26	e20	e21	24	227	415	149	64	50
21	91	e41	e29	e24	e19	e22	27	289	429	146	72	48
22	86	e41	e29	e23	e18	e23	36	279	456	137	68	46
23	83	e40	e28	e24	e18	30	54	249	456	136	63	43
24	80	e39	e29	e24	e19	38	68	254	422	127	74	41
25	e76	e40	e27	e23	e20	44	60	237	400	126	99	39
26	e74	e41	e23	e24	e19	43	52	283	424	118	110	38
27	e72	e40	e23	e25	e18	37	49	332	436	140	90	37
28	72	e39	e24	e24	e17	30	54	400	430	143	79	37
29	69	e38	e26	e25	---	e22	63	451	419	133	71	38
30	67	e38	e28	e24	---	e18	88	451	388	119	66	42
31	65	---	e29	e23	---	e27	---	425	---	116	68	---
TOTAL	2988	1407	949	796	566	733	1063	6584	10631	6800	2512	1727
MEAN	96.4	46.9	30.6	25.7	20.2	23.6	35.4	212	354	219	81.0	57.6
MAX	152	63	38	29	24	44	88	451	528	382	163	94
MIN	65	38	23	23	17	16	22	93	222	116	63	37
AC-FT	5930	2790	1880	1580	1120	1450	2110	13060	21090	13490	4980	3430

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1998, BY WATER YEAR (WY)

MEAN	53.9	33.3	24.8	21.0	20.8	25.9	48.8	237	445	262	119	75.2
MAX	96.4	46.9	30.6	27.1	29.5	36.1	64.2	337	635	540	219	141
(WY)	1998	1998	1998	1995	1995	1995	1992	1996	1997	1995	1995	1997
MIN	28.3	24.7	18.3	13.4	14.7	18.4	35.4	96.5	257	86.5	44.3	55.6
(WY)	1992	1992	1992	1992	1992	1992	1998	1995	1996	1996	1996	1996

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1992 - 1998	
ANNUAL TOTAL	53751		36756			
ANNUAL MEAN	147		101		114	
HIGHEST ANNUAL MEAN					145	1995
LOWEST ANNUAL MEAN					82.9	1996
HIGHEST DAILY MEAN	964	Jun 4	528	Jun 2	964	Jun 4 1997
LOWEST DAILY MEAN	e20	Jan 14	e16	Mar 1	12	Jan 2 1992
ANNUAL SEVEN-DAY MINIMUM	21	Mar 2	18	Feb 23	13	Jan 12 1992
INSTANTANEOUS PEAK FLOW			676	Jun 2	1670	Jun 15 1995
INSTANTANEOUS PEAK STAGE			2.55	Jun 2	3.41	Jun 15 1995
ANNUAL RUNOFF (AC-FT)	106600		72910		82740	
10 PERCENT EXCEEDS	398		288		316	
50 PERCENT EXCEEDS	72		51		43	
90 PERCENT EXCEEDS	23		21		19	

e-Estimated.

09359020 ANIMAS RIVER BELOW SILVERTON, CO

LOCATION.--Lat 37°47'25", long 107°40'01", in SW¼SW¼ 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 mi^2.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	342	183	111	e86	e66	e52	112	350	1240	1060	365	192
2	333	168	111	e90	e66	e54	106	387	1460	993	315	214
3	359	166	107	90	e74	e62	101	465	1420	929	275	183
4	318	165	e105	87	e74	e68	102	501	1040	1040	252	170
5	299	161	e105	86	e74	e68	102	471	738	871	242	155
6	280	e150	e110	e80	e74	e68	105	421	643	878	216	147
7	284	e150	e110	e74	e72	68	106	368	641	893	200	139
8	294	e145	e110	e74	e68	66	102	342	597	837	186	132
9	273	e145	e105	e76	e68	e56	96	320	629	736	180	127
10	281	e145	e100	e80	e70	e62	94	358	632	795	187	122
11	354	e148	e98	e86	e66	e66	105	414	569	738	184	121
12	334	150	e94	e86	e62	e68	118	438	608	682	169	185
13	316	149	e88	e86	e62	e70	113	454	765	602	162	188
14	310	145	e90	e82	e64	e70	112	460	734	527	185	167
15	308	129	e90	e80	e66	64	107	393	744	488	178	163
16	295	e120	e88	e84	e60	69	105	389	799	456	162	150
17	283	e120	e84	e88	e62	e70	104	437	787	443	159	141
18	277	e122	e88	e76	e64	e68	106	510	676	424	184	136
19	267	125	e92	e76	e62	e70	107	553	871	402	160	126
20	256	124	e88	e82	e62	73	112	609	1030	382	151	119
21	242	121	e86	e78	e62	74	119	754	1090	372	167	115
22	231	118	e86	e72	e58	79	146	741	1190	357	162	113
23	225	118	e88	e74	e56	94	200	653	1190	356	147	111
24	220	116	e86	e74	e60	116	242	663	1100	339	161	108
25	206	115	e84	e72	e64	138	230	594	1030	359	201	103
26	201	115	e78	e72	e64	140	200	696	1100	332	214	101
27	201	117	e70	e78	e60	118	184	806	1190	354	187	99
28	200	115	e74	e76	e58	108	201	1030	1220	360	167	97
29	196	e110	e78	e76	---	97	228	1190	1200	338	153	101
30	193	e110	e86	e78	---	100	295	1180	1110	311	144	110
31	189	---	e90	e74	---	103	---	1100	---	296	148	---
TOTAL	8367	4065	2880	2473	1818	2479	4160	18047	28043	17950	5963	4135
MEAN	270	136	92.9	79.8	64.9	80.0	139	582	935	579	192	138
MAX	359	183	111	90	74	140	295	1190	1460	1060	365	214
MIN	189	110	70	72	56	52	94	320	569	296	144	97
AC-FT	16600	8060	5710	4910	3610	4920	8250	35800	55620	35600	11830	8200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1998, BY WATER YEAR (WY)

MEAN	142	92.2	70.0	64.4	62.9	77.0	155	682	1196	625	268	187
MAX	270	136	92.9	79.8	85.6	105	192	1002	1647	1393	520	331
(WY)	1998	1998	1998	1998	1995	1995	1996	1996	1997	1995	1995	1997
MIN	82.0	70.9	52.5	40.2	46.1	59.7	122	301	741	225	116	129
(WY)	1992	1992	1992	1992	1992	1992	1993	1995	1996	1994	1996	1996

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1992 - 1998	
ANNUAL TOTAL	148955		100380			
ANNUAL MEAN	408		275		302	
HIGHEST ANNUAL MEAN					395	1997
LOWEST ANNUAL MEAN					235	1992
HIGHEST DAILY MEAN	2280	Jun 4	1460	Jun 2	2350	Jul 10 1995
LOWEST DAILY MEAN	e54	Jan 14	e52	Mar 1	35	Jan 2 1992
ANNUAL SEVEN-DAY MINIMUM	58	Mar 3	59	Feb 24	39	Jan 18 1992
INSTANTANEOUS PEAK FLOW			1890	Jun 2	2970	Jul 9 1995
INSTANTANEOUS PEAK STAGE			4.05	Jun 2	a4.89	Jul 9 1995
ANNUAL RUNOFF (AC-FT)	295500		199100		219100	
10 PERCENT EXCEEDS	1170		739		857	
50 PERCENT EXCEEDS	201		146		115	
90 PERCENT EXCEEDS	62		69		60	

e-Estimated.
a-Maximum gage height, 4.90 ft, Jun 1, 1997.

09359020 ANIMAS RIVER BELOW SILVERTON, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH FIELD (STAND-ARD UNITS) (00400)	pH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	ACIDITY (MG/L AS H) (71825)	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...	1010	221	312	6.7	7.0	2.0	10.4	140	0.2	52	3.2	2.1
MAY												
05...	1100	459	237	6.4	7.3	4.5	9.1	100	<0.1	37	2.5	1.7
JUN												
02...	1025	1230	129	7.8	7.8	5.0	9.2	54	<0.1	19	1.4	1.0
JUL												
22...	1115	334	234	--	7.4	9.5	9.1	100	<0.1	36	2.5	1.6

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)	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 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)
OCT												
22...	0.1	0.6	17	14	130	0.8	0.4	10	223	206	0.30	133
MAY												
05...	0.1	0.5	13	11	91	0.6	0.5	8.8	168	151	0.23	208
JUN												
02...	0.1	0.4	15	13	42	<0.1	0.2	5.7	89	78	0.12	296
JUL												
22...	0.1	0.5	24	20	86	0.5	0.4	7.7	166	148	0.23	150

DATE	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)
OCT							
22...	1100	22	2	30	5	1800	850
MAY							
05...	960	17	2	<10	8	2400	550
JUN							
02...	700	26	<1	26	6	2000	140
JUL							
22...	710	27	1	<10	2	960	190

DATE	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							
22...	<1.0	620	668	<0.1	<1	<0.20	418
MAY							
05...	<1.0	710	707	<0.1	<1	<0.20	530
JUN							
02...	<1.0	360	226	<0.1	<1	<0.20	228
JUL							
22...	<1.0	470	468	<0.1	<1	<0.20	232

09359020 ANIMAS RIVER BELOW SILVERTON, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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				
23...	1015	86	527	1.0
FEB				
13...	1115	61	538	1.0
MAR				
16...	1030	65	628	2.5
AUG				
17...	1400	154	367	13.0
31...	1145	148	373	12.0

09361500 ANIMAS RIVER AT DURANGO, CO

LOCATION.--Lat 37°16'45", long 107°52'47", in SW¼SW¼ 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.

DRAINAGE AREA.--692 mi^2.

PERIOD OF RECORD.--June to December 1895, April 1896 to December 1898, April 1899 to December 1900, March to May 1901, April to November 1902, March to April 1903 (gage heights only, erroneously stated as discredited in WSP 1563), May to October 1903, July 1904 to December 1905, January to December 1910 (gage heights only), January to September 1911, January 1912 to current year. Monthly or yearly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 764: Drainage area. WSP 929: 1927(M). WSP 1243: 1911, 1918(M). WSP 1563: 1911-25 (monthly figures only).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,501.57 ft above sea level. See WSP 1713 or 1733 for history of changes prior to Mar. 2, 1921.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation of about 4,000 acres upstream from station. Natural regulation by many lakes and regulation for power 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 since at least 1885, that of Oct. 5, 1911.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1010	466	300	243	202	177	521	1430	3140	1860	841	413
2	944	440	308	249	194	176	541	1540	3510	1850	903	553
3	981	423	309	260	231	219	512	1870	3650	1710	752	552
4	896	420	290	261	234	232	508	2220	3030	1870	651	494
5	810	406	278	256	230	229	488	2250	2290	1770	633	455
6	739	397	286	235	225	235	498	2010	1860	1650	576	386
7	678	389	295	214	228	244	532	1730	1710	1630	520	366
8	788	376	305	209	206	207	504	1570	1630	1830	473	385
9	739	373	296	215	203	187	483	1460	1550	1670	420	356
10	706	374	287	224	221	215	468	1470	1580	1640	412	340
11	874	387	275	251	213	227	482	1750	1480	1680	441	334
12	1040	410	266	251	195	240	546	1910	1340	1460	430	346
13	913	391	249	255	203	250	578	1970	1640	1330	417	451
14	882	383	260	241	225	268	565	2140	1690	1170	428	441
15	857	356	259	229	208	250	545	1840	1670	1020	426	433
16	816	316	255	243	201	262	519	1640	1740	911	388	426
17	750	331	244	260	218	321	485	1670	1700	864	368	413
18	706	325	260	223	216	334	474	2050	1480	853	403	395
19	676	331	272	217	218	314	421	2360	1530	827	414	369
20	645	343	259	245	213	308	413	2530	1970	748	386	317
21	662	341	250	232	215	320	474	2890	2010	713	441	300
22	640	320	261	209	192	330	617	3200	2190	700	578	308
23	615	309	272	224	196	390	845	2680	2210	678	472	302
24	619	310	257	227	217	563	1160	2620	2100	677	413	291
25	571	303	248	213	224	724	1350	2340	1890	710	439	283
26	554	304	238	211	216	861	1220	2440	1890	825	494	267
27	546	328	202	238	206	799	1080	2730	2010	857	484	245
28	545	321	213	235	201	704	1050	3170	2050	971	444	237
29	534	312	220	230	---	615	1000	3560	2030	922	405	259
30	501	299	258	235	---	515	1150	3640	1970	814	356	297
31	490	---	253	235	---	529	---	3230	---	743	341	---
TOTAL	22727	10784	8225	7270	5951	11245	20029	69910	60540	36953	15149	11014
MEAN	733	359	265	235	213	363	668	2255	2018	1192	489	367
MAX	1040	466	309	261	234	861	1350	3640	3650	1870	903	553
MIN	490	299	202	209	192	176	413	1430	1340	677	341	237
AC-FT	45080	21390	16310	14420	11800	22300	39730	138700	120100	73300	30050	21850

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1898 - 1998, BY WATER YEAR (WY)

MEAN	414	287	222	203	206	299	840	2306	2892	1219	584	461
MAX	1866	814	412	326	352	844	1818	4791	5846	3057	1500	1709
(WY)	1942	1942	1942	1973	1920	1916	1985	1920	1917	1995	1929	1970
MIN	162	158	129	103	110	133	246	474	395	211	179	161
(WY)	1957	1935	1990	1933	1933	1990	1977	1977	1934	1934	1900	1956

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1898 - 1998	
ANNUAL TOTAL	453421		279797			
ANNUAL MEAN	1242		767		827	
HIGHEST ANNUAL MEAN					1366	1917
LOWEST ANNUAL MEAN					302	1977
HIGHEST DAILY MEAN	6730	Jun 2	3650	Jun 3	10700	Jun 19 1949
LOWEST DAILY MEAN	202	Dec 27	176	Mar 2	94	Mar 2 1913
ANNUAL SEVEN-DAY MINIMUM	233	Dec 25	202	Feb 24	100	Dec 19 1917
INSTANTANEOUS PEAK FLOW			4040	Jun 3	a25000	Oct 5 1911
INSTANTANEOUS PEAK STAGE			5.60	Jun 3	11.00	Oct 5 1911
ANNUAL RUNOFF (AC-FT)	899400		555000		599000	
10 PERCENT EXCEEDS	3340		1880		2240	
50 PERCENT EXCEEDS	706		439		344	
90 PERCENT EXCEEDS	251		221		180	

a-Present site and datum, from rating curve extended above 13000 ft^3/s.

09362550 WILSON GULCH NEAR DURANGO, CO

LOCATION.--Lat 37°14'36", long 107°50'33", in NE¼NW¼ 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 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 6,580 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	1.3	1.2	.83	.97	.70	1.0	.81	1.5	.51	2.1	.31
2	3.5	1.3	1.2	.92	.92	.76	.95	.80	1.4	.37	2.4	.41
3	3.4	1.3	1.2	1.4	.91	1.3	.95	.79	1.9	.32	2.1	.41
4	2.4	1.3	1.1	1.6	1.2	1.7	.93	.76	2.1	.90	1.8	.38
5	2.2	1.3	1.1	1.3	1.2	1.6	.90	.76	2.0	1.7	1.7	.35
6	2.1	1.3	1.1	.98	1.1	1.5	.90	.79	1.5	1.7	1.7	.35
7	2.2	1.4	1.1	.88	1.0	1.6	.90	.83	1.4	2.0	1.6	.32
8	2.5	1.5	1.2	.86	.92	1.3	.90	.81	1.4	2.0	1.6	.37
9	2.0	1.5	1.1	.84	.89	1.1	.92	.81	1.5	1.9	1.5	.40
10	2.3	1.5	1.0	.85	.90	.99	.91	.96	1.9	3.7	1.5	.36
11	2.3	1.6	.97	.87	.84	1.0	.89	.84	2.1	1.8	2.2	.29
12	1.8	2.1	.91	.91	.84	1.1	.90	.82	1.9	1.5	2.2	.39
13	1.6	1.5	.87	.92	.86	1.0	.96	.83	1.4	1.5	2.6	1.8
14	1.5	1.3	.88	.90	.92	.90	.99	1.0	1.3	1.5	2.6	2.3
15	1.5	1.2	.89	.86	.98	.90	.95	1.0	1.9	1.3	2.7	1.8
16	1.4	1.2	.90	.86	.85	.89	.95	1.0	2.2	1.3	2.5	1.4
17	1.5	1.2	.90	.87	.72	.91	.95	1.1	2.2	1.7	2.1	1.3
18	1.4	1.2	.90	.86	.82	1.0	.95	1.2	1.7	2.2	2.6	1.1
19	1.3	1.2	.91	.87	.89	.95	.91	1.3	1.7	2.1	2.1	1.1
20	1.4	1.3	.91	.87	.89	.87	.84	1.3	1.8	1.9	1.2	1.3
21	1.3	1.2	.89	.84	.87	.88	.88	1.3	1.5	1.9	2.3	1.2
22	1.7	1.2	.90	.77	.88	.80	.86	1.2	1.4	1.9	2.2	.89
23	1.4	1.1	.94	.76	1.1	.88	.86	1.2	1.5	2.1	1.5	.88
24	1.8	1.1	.96	.78	1.4	.85	.90	1.1	1.5	1.9	1.0	.95
25	1.5	1.1	.95	.85	1.1	.86	.90	1.4	1.7	2.1	.78	.97
26	1.4	1.2	.91	.95	.86	1.1	.89	1.4	.98	1.9	1.9	.94
27	1.4	1.3	.90	.98	.76	1.4	.90	1.4	.66	2.0	1.9	1.2
28	1.4	1.2	.87	1.0	.71	1.1	.88	1.6	1.9	1.6	.91	1.1
29	1.4	1.2	.84	1.1	---	1.2	.85	1.6	1.4	1.6	.57	1.1
30	1.4	1.1	.82	1.1	---	1.1	.84	1.4	.84	1.6	.41	1.1
31	1.3	---	.79	1.1	---	1.0	---	1.8	---	1.6	.24	---
TOTAL	57.4	39.2	30.11	29.48	26.30	33.24	27.31	33.91	48.18	52.10	54.51	26.77
MEAN	1.85	1.31	.97	.95	.94	1.07	.91	1.09	1.61	1.68	1.76	.89
MAX	3.5	2.1	1.2	1.6	1.4	1.7	1.0	1.8	2.2	3.7	2.7	2.3
MIN	1.3	1.1	.79	.76	.71	.70	.84	.76	.66	.32	.24	.29
AC-FT	114	78	60	58	52	66	54	67	96	103	108	53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1998, BY WATER YEAR (WY)

MEAN	1.43	1.22	1.09	1.00	1.00	1.49	.90	1.30	1.86	1.84	1.44	1.42
MAX	1.85	1.53	1.45	1.38	1.30	2.43	1.03	1.92	2.98	3.23	1.84	2.40
(WY)	1998	1996	1996	1996	1996	1997	1997	1997	1997	1997	1995	1997
MIN	.77	.82	.86	.66	.75	.97	.77	.87	1.00	.84	.81	.71
(WY)	1997	1997	1997	1997	1997	1996	1996	1996	1996	1996	1996	1996

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1995 - 1998	
ANNUAL TOTAL	637.09		458.51			
ANNUAL MEAN	1.75		1.26		1.32	
HIGHEST ANNUAL MEAN					1.60	1997
LOWEST ANNUAL MEAN					1.11	1996
HIGHEST DAILY MEAN	14	Sep 21	3.7	Jul 10	14	Sep 21 1997
LOWEST DAILY MEAN	.26	Jan 24	.24	Aug 31	.24	Aug 31 1998
ANNUAL SEVEN-DAY MINIMUM	.27	Jan 19	.35	Sep 5	.27	Jan 19 1997
INSTANTANEOUS PEAK FLOW			8.2	Oct 22	22	Sep 21 1997
INSTANTANEOUS PEAK STAGE			2.69	Oct 22	3.64	Sep 21 1997
ANNUAL RUNOFF (AC-FT)	1260		909		959	
10 PERCENT EXCEEDS	3.4		2.0		2.2	
50 PERCENT EXCEEDS	1.2		1.1		1.1	
90 PERCENT EXCEEDS	.75		.81		.75	

09362800 LEMON RESERVOIR NEAR DURANGO, CO

LOCATION.--Lat 37°22'57", long 107°39'44", in SE¼SW¼ 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 mi^2.

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.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 40,180 acre-ft, July 3-4, 1997, elevation, 8,148.06 ft; minimum contents, 5,320 acre-ft, Sept. 13, 1996, elevation, 8,057.55 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 39,790 acre-ft, June 3, elevation, 8,147.43 ft; minimum contents, 14,960 acre-ft, Sept. 30, elevation, 8,096.83 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	8,134.78	32,340	-
Oct. 31	8,131.79	30.680	-1,660
Nov. 30	8,132.29	30,960	+280
Dec. 31	8,132.98	31,340	+380
CAL YR 1997	-	-	+21,290
Jan. 31	8,133.30	31,510	+170
Feb. 28	8,133.49	31,620	+110
Mar. 31	8,135.19	32,570	+950
Apr. 30	8,140.05	35,350	+2,780
May 31	8,146.83	39,420	+4,070
June 30	8,144.02	37,710	-1,710
July 31	8,130.83	30,160	-7,550
Aug. 31	8,113.03	21,330	-8,830
Sept. 30	8,096.83	14,960	-6,370
WTR YR 1998	-	-	-17,380

09363500 ANIMAS RIVER NEAR CEDAR HILL, NM

LOCATION.--Lat 37°02'17", long 107°52'25", in sec.7, T.32 N., R.9 W., La Plata County, Colorado, Hydrologic Unit 14080104, on right bank 0.8 mi downstream from Florida River, 2.5 mi upstream from Colorado-New Mexico State line, 8.5 mi north of Cedar Hill, and at mile 32.9.

DRAINAGE AREA.--1,090 mi^2, approximately.

PERIOD OF RECORD.--October 1933 to current year. Monthly discharge only for October and November 1933, published in WSP 1313.

REVISED RECORDS.--WSP 1563: 1940 and 1946 (monthly figures only).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,960 ft above National Geodectic Vertical Datum of 1929, from topographic map. Prior to Sept. 14, 1937, at datum between 1.52 ft and 1.36 ft higher. Sept. 15, 1937 to Sept. 30, 1946, at datum 1.36 ft higher.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 20,000 acres upstream from station. During water years 1944-49, Twin Rocks Canal diverted upstream from station for irrigation downstream. Slight regulation by Lemon Dam about 30 mi upstream on Florida River since November 1963 (capacity, 40,100 acre-ft).

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred in October 1911 at this location.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1240	536	334	e300	255	218	690	1500	3580	1900	924	473
2	1180	504	346	304	238	210	684	1680	3970	1880	1020	611
3	1190	505	344	328	271	254	663	2060	4310	1740	893	685
4	1130	494	321	365	285	307	633	2360	3700	1850	772	593
5	1040	470	297	350	286	332	610	2460	2640	1810	746	559
6	988	452	318	302	284	364	620	2270	2090	1670	707	477
7	921	454	330	269	285	365	656	2040	1940	1690	630	435
8	1020	450	350	e250	261	293	626	1820	1860	1890	566	447
9	986	442	326	e245	249	244	584	1720	1790	1780	488	413
10	924	432	319	e255	267	259	552	1670	1820	1810	487	396
11	1070	453	314	303	255	279	547	1860	1710	1820	517	396
12	1270	500	303	313	236	307	635	2000	1570	1570	509	410
13	1170	453	e320	319	243	323	715	2040	1780	1440	499	496
14	1110	430	e315	296	266	344	690	2190	1870	1290	517	547
15	1080	401	311	291	272	333	672	2000	1850	1150	527	523
16	1010	343	303	290	253	348	656	1760	1910	1040	479	540
17	959	347	287	311	265	422	609	1740	1870	985	440	512
18	875	356	285	276	261	464	559	2050	1690	970	455	484
19	841	364	302	264	265	409	508	2390	1680	953	498	452
20	812	372	292	290	258	389	493	2550	2060	891	458	375
21	810	366	284	288	258	395	548	2890	2140	850	528	345
22	787	349	289	259	244	428	667	3250	2270	828	709	356
23	764	338	311	272	248	517	896	2830	2320	784	590	356
24	777	339	300	277	286	722	1240	2740	2230	815	493	343
25	734	341	292	264	291	915	1470	2520	2020	838	485	326
26	698	340	281	253	270	1080	1390	2580	1970	1050	558	312
27	686	367	269	282	249	1100	1260	2870	2070	1060	592	284
28	659	360	e260	284	236	957	1200	3280	2110	1140	525	278
29	614	345	e270	283	---	881	1150	3760	2080	1070	481	313
30	575	332	e284	285	---	722	1260	3980	2010	961	414	387
31	557	---	e290	290	---	685	---	3690	---	885	395	---
TOTAL	28477	12235	9447	8958	7337	14866	23483	74550	66910	40410	17902	13124
MEAN	919	408	305	289	262	480	783	2405	2230	1304	577	437
MAX	1270	536	350	365	291	1100	1470	3980	4310	1900	1020	685
MIN	557	332	260	245	236	210	493	1500	1570	784	395	278
AC-FT	56480	24270	18740	17770	14550	29490	46580	147900	132700	80150	35510	26030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1998, BY WATER YEAR (WY)

MEAN	472	343	269	247	262	433	1084	2530	3034	1272	623	531
MAX	2479	1069	555	388	467	1043	2192	5686	6145	3710	1681	1922
(WY)	1942	1942	1987	1973	1987	1993	1985	1941	1957	1957	1957	1970
MIN	169	158	159	169	151	141	273	449	458	223	222	155
(WY)	1957	1934	1957	1954	1964	1977	1977	1977	1934	1934	1996	1956

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1934 - 1998	
ANNUAL TOTAL	536809		317699			
ANNUAL MEAN	1471		870		934	
HIGHEST ANNUAL MEAN					1713	1941
LOWEST ANNUAL MEAN					340	1977
HIGHEST DAILY MEAN	7770	Jun 2	4310	Jun 3	11800	Jun 19 1949
LOWEST DAILY MEAN	e260	Dec 28	210	Mar 2	.00	Nov 1 1933
ANNUAL SEVEN-DAY MINIMUM	278	Dec 25	247	Feb 25	.00	Nov 1 1933
INSTANTANEOUS PEAK FLOW			4820	Jun 3	13100	Jun 19 1949
INSTANTANEOUS PEAK STAGE			8.35	Jun 3	11.45	Jun 19 1949
ANNUAL RUNOFF (AC-FT)	1065000		630200		676900	
10 PERCENT EXCEEDS	4030		2010		2430	
50 PERCENT EXCEEDS	960		517		412	
90 PERCENT EXCEEDS	330		271		210	

e-Estimated.

09365500 LA PLATA RIVER AT HESPERUS, CO

LOCATION.--Lat 37°17'23", long 108°02'24", in NE¼SW¼ sec.14, T.35 N., R.11 W., La Plata County, Hydrologic Unit 14080105, on right bank at Hesperus, 700 ft downstream from U.S. Highway 160.

DRAINAGE AREA.--37 mi^2, approximately.

PERIOD OF RECORD.--June to August 1904, May 1905 to September 1906, August to November 1910, June 1917 to current year. Monthly discharge only for some periods, published in WSP 1313. Records for Nov. 11 to Dec. 31, 1910, published in WSP 289, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1243: 1906(M). WSP 1563: 1923 (monthly figures only). See also PERIOD OF RECORD.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,104.71 ft above sea level. Prior to May 1, 1920, nonrecording gage, and May 1, 1920 to May 24, 1927, water-stage recorder, at several sites about 600 ft downstream at different datums. May 25, 1927 to Sept. 30, 1938, water-stage recorder at site 60 ft downstream and Oct. 1, 1938 to Sept. 30, 1941, at present site at datum 1.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Cherry Creek ditch exports water upstream from station for irrigation of about 2,000 acres in Cherry Creek drainage. The Pine Ridge ditch diverts water upstream from station for irrigation of about 300 acres downstream, and also for irrigation of about 300 acres in each of the Lightner and Basin Creek drainages. The Pine River ditch also diverts up to 1,000 acre-ft for storage in the Lightner Creek drainage.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood observed occurred Oct. 5, 1911.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	16	11	e9.0	e7.6	e6.8	38	93	163	32	20	7.7
2	32	16	11	9.0	e7.4	e7.0	37	116	178	28	18	7.8
3	36	16	11	9.1	7.6	e7.4	36	162	172	26	16	6.9
4	31	15	e11	9.4	7.9	7.4	37	190	138	25	16	6.6
5	28	15	e11	e9.2	e7.8	7.4	37	180	96	22	19	7.0
6	26	14	e11	e8.8	e7.8	8.1	38	145	82	22	18	6.6
7	27	14	11	e8.6	7.8	e7.8	38	121	79	25	17	6.4
8	33	14	11	e8.4	e7.6	e7.6	36	110	62	29	16	6.1
9	29	14	e11	e8.2	e7.6	e8.0	36	98	55	31	15	6.1
10	27	14	e11	e8.2	e7.4	e8.0	37	115	52	32	15	7.0
11	29	14	e11	8.4	e7.4	e8.2	42	141	40	24	14	6.9
12	29	14	e9.5	8.4	e7.4	e8.4	46	151	37	22	13	7.8
13	26	14	e10	e8.2	e7.4	e8.6	43	147	53	21	14	7.4
14	25	13	e10	e8.2	7.6	9.0	43	142	58	18	13	6.7
15	24	13	e10	e8.2	e7.4	10	42	106	61	20	11	6.3
16	25	e12	e10	e8.4	e7.4	11	41	91	62	19	11	6.7
17	23	12	e10	e8.4	e7.4	12	38	101	57	19	11	6.7
18	23	11	e10	e8.4	e7.4	12	37	140	47	18	11	6.4
19	22	11	10	e8.2	e7.4	e12	37	170	52	19	11	6.1
20	22	11	e9.5	e8.0	e7.4	e13	38	166	53	19	9.9	6.2
21	21	11	e9.5	e7.8	e7.4	e14	38	195	50	19	11	5.9
22	20	11	9.6	e7.4	e7.4	18	40	195	50	19	9.8	6.0
23	20	11	9.6	e7.6	7.6	27	66	173	47	20	9.2	6.0
24	21	10	e9.5	e7.6	e7.8	51	95	170	44	22	8.7	6.1
25	19	11	e9.0	e7.8	e7.2	87	101	162	41	19	8.4	5.7
26	17	11	e8.5	e7.8	e6.8	85	85	170	40	23	8.3	6.0
27	16	11	e9.0	e7.8	e6.8	71	78	173	39	23	8.2	5.7
28	15	11	e8.5	e7.6	e6.6	60	78	198	38	22	7.8	5.7
29	15	11	e9.0	e7.8	---	52	72	209	36	18	7.5	6.5
30	15	11	e9.5	e7.8	---	e42	77	196	34	16	7.2	6.3
31	15	---	9.0	e7.6	---	40	---	166	---	18	6.9	---
TOTAL	744	382	310.7	255.3	208.3	726.7	1507	4692	2016	690	381.9	195.3
MEAN	24.0	12.7	10.0	8.24	7.44	23.4	50.2	151	67.2	22.3	12.3	6.51
MAX	36	16	11	9.4	7.9	87	101	209	178	32	20	7.8
MIN	15	10	8.5	7.4	6.6	6.8	36	91	34	16	6.9	5.7
AC-FT	1480	758	616	506	413	1440	2990	9310	4000	1370	757	387

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 1998, BY WATER YEAR (WY)

MEAN	15.5	10.7	8.28	7.05	7.45	15.7	82.4	172	134	38.6	23.6	20.3
MAX	148	54.3	20.4	15.0	18.0	54.2	203	384	421	154	75.4	124
(WY)	1942	1942	1987	1926	1971	1997	1924	1941	1980	1957	1957	1927
MIN	3.27	3.11	2.94	2.65	3.06	3.83	8.40	19.8	15.6	8.80	6.58	3.73
(WY)	1957	1938	1938	1938	1990	1977	1977	1977	1934	1939	1939	1956

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1918 - 1998	
ANNUAL TOTAL	23448.1		12109.2			
ANNUAL MEAN	64.2		33.2		44.7	
HIGHEST ANNUAL MEAN					90.5	1941
LOWEST ANNUAL MEAN					9.94	1977
HIGHEST DAILY MEAN	e450	Jun 1	209	May 29	934	Jun 28 1927
LOWEST DAILY MEAN	e7.0	Jan 14	a5.7	Sep 25	1.0	Feb 22 1939
ANNUAL SEVEN-DAY MINIMUM	8.0	Jan 14	5.9	Sep 22	1.9	Oct 13 1917
INSTANTANEOUS PEAK FLOW			233	May 28	b1880	Sep 22 1941
INSTANTANEOUS PEAK STAGE			c3.31	May 28	d4.30	Sep 22 1941
ANNUAL RUNOFF (AC-FT)	46510		24020		32410	
10 PERCENT EXCEEDS	174		94		127	
50 PERCENT EXCEEDS	28		14		13	
90 PERCENT EXCEEDS	8.8		7.4		5.2	

e-Estimated.
a-Also occurred Sep 27-28.
b-Present datum, from rating curve extended above 620 ft^3/s, on basis of slope-area measurement of peak flow.
c-Maximum gage height, 3.70 ft, Dec 29, backwater from ice.
d-Maximum gage height, for period of record, 5.13 ft, Sep 6, 1970.

09366500 LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE

LOCATION.--Lat 36°59'59", long 108°11'17", in NW¼SE¼ 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.

DRAINAGE AREA.--331 mi^2.

PERIOD OF RECORD.--January 1920 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1313: 1934 (M), 1936 (M).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,972.03 ft above sea level. See WSP 1713 or 1733 for history of changes prior to Mar. 17, 1934. Mar. 17, 1934 to July 1, 1996, water-stage recorder at same site, and at datum 3.12 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 15,000 acres, mostly upstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	17	32	e24	18	20	93	43	79	23	11	1.9
2	15	17	33	25	19	19	94	44	87	21	8.7	1.8
3	21	17	32	26	19	20	83	72	80	20	6.1	1.7
4	21	16	25	28	21	22	101	90	84	20	6.4	1.9
5	17	15	25	27	21	22	100	88	79	19	5.7	2.8
6	14	16	25	26	21	23	100	76	62	17	4.8	3.2
7	14	20	27	e26	22	23	94	69	50	17	4.6	3.0
8	19	22	29	e26	21	20	92	55	34	24	4.8	3.1
9	20	23	27	28	21	21	89	49	43	38	5.7	3.1
10	15	24	26	25	20	22	75	46	46	25	6.0	3.3
11	14	27	27	24	19	30	73	53	43	21	6.2	3.7
12	15	34	25	24	19	36	85	54	40	14	6.4	3.7
13	18	33	e25	23	19	37	89	52	38	12	5.8	3.9
14	17	32	e25	22	21	34	85	53	35	12	5.4	3.7
15	16	34	e25	23	21	36	71	51	35	11	5.2	3.7
16	16	33	e25	24	19	46	65	57	34	8.5	4.6	3.9
17	15	33	e24	23	19	58	59	55	42	6.8	3.7	3.8
18	14	30	e23	23	19	66	54	53	35	6.1	3.1	3.4
19	14	33	23	23	19	48	49	73	33	5.8	3.1	3.2
20	14	34	e22	22	19	49	45	68	32	5.6	2.8	3.0
21	14	33	e22	21	19	46	43	79	31	6.0	4.0	3.0
22	14	32	23	21	20	65	43	72	30	6.6	3.9	3.1
23	14	32	22	22	20	66	43	47	28	6.0	3.1	3.1
24	17	32	22	20	21	68	54	66	26	6.9	2.9	2.9
25	19	34	e22	19	21	92	66	76	29	6.4	2.9	2.8
26	17	34	e20	19	19	155	62	79	27	17	2.8	2.6
27	16	34	e18	19	19	144	60	76	27	18	2.0	2.8
28	16	35	e20	19	19	135	52	74	26	22	1.8	2.8
29	17	33	e20	19	---	121	47	71	23	12	2.5	4.2
30	18	31	e22	20	---	101	43	67	26	8.3	1.9	7.9
31	18	---	e22	19	---	95	---	67	---	7.4	1.7	---
TOTAL	503	840	758	710	555	1740	2109	1975	1284	443.4	139.6	97.0
MEAN	16.2	28.0	24.5	22.9	19.8	56.1	70.3	63.7	42.8	14.3	4.50	3.23
MAX	21	35	33	28	22	155	101	90	87	38	11	7.9
MIN	14	15	18	19	18	19	43	43	23	5.6	1.7	1.7
AC-FT	998	1670	1500	1410	1100	3450	4180	3920	2550	879	277	192

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1998, BY WATER YEAR (WY)

MEAN	13.9	12.1	12.3	12.0	17.2	37.9	107	110	67.5	20.3	12.0	11.3
MAX	260	99.2	53.9	38.3	53.9	139	364	506	306	99.4	65.1	126
(WY)	1942	1942	1987	1942	1924	1997	1980	1941	1957	1957	1957	1927
MIN	.097	.98	1.24	.80	2.96	.63	3.06	5.32	1.94	.019	.006	.000
(WY)	1935	1940	1978	1930	1977	1977	1977	1977	1924	1922	1922	1956

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1921 - 1998	
ANNUAL TOTAL	22366.9		11154.0			
ANNUAL MEAN	61.3		30.6		36.1	
HIGHEST ANNUAL MEAN					109	1973
LOWEST ANNUAL MEAN					4.44	1977
HIGHEST DAILY MEAN	378	Jun 2	155	Mar 26	1120	May 4 1941
LOWEST DAILY MEAN	3.4	Sep 11	a1.7	Aug 31	b.00	Jul 3 1922
ANNUAL SEVEN-DAY MINIMUM	4.5	Sep 6	1.9	Aug 28	.00	Jul 3 1922
INSTANTANEOUS PEAK FLOW			173	Mar 26	c4750	Aug 24 1927
INSTANTANEOUS PEAK STAGE			4.10	Mar 26	11.36	Aug 24 1927
ANNUAL RUNOFF (AC-FT)	44360		22120		26180	
10 PERCENT EXCEEDS	170		72		86	
50 PERCENT EXCEEDS	29		22		12	
90 PERCENT EXCEEDS	14		3.7		1.7	

e-Estimated.
a-Also occurred Sep 3.
b-No flow at times in many years.
c-From rating curve extended above 750 ft^3/s, on basis of slope-area measurement of peak flow, at datum then in use.

09371000 MANCOS RIVER NEAR TOWAOC, CO

LOCATION.--Lat 37°01'39", long 108°44'27", Ute Indian Reservation, Montezuma County, Hydrologic Unit 14080107, on left bank 700 ft upstream from bridge on U.S. Highway 666, 2.0 mi north of Colorado-New Mexico State line, 6.0 mi upstream from Aztec Creek, and 12 mi south of Towaoc.

DRAINAGE AREA.--526 mi^2.

PERIOD OF RECORD.--October 1920 to September 1943, February 1951 to current year. Monthly discharge only for some periods, published in WSP 1313. Water-quality data available, August 1969 to June 1972, October 1983 to September 1986. Sediment data available, April to December 1961.

REVISED RECORDS.--WSP 1733: 1924 (monthly figures only). WDR CO-83-3: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,055.98 ft above sea level. See WSP 1713 or 1733 for history of changes prior to Mar. 11, 1954.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of about 10,000 acres upstream from station. One diversion upstream from station for irrigation of about 100 acres downstream from station. Flow regulated by Jackson Gulch Reservoir, capacity, 10,000 acre-ft since March 1949. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	52	44	e19	e18	14	72	156	162	7.0	204	4.7
2	51	53	43	e19	e17	17	72	162	167	5.0	52	97
3	56	56	36	e19	e17	18	67	212	169	4.0	22	19
4	50	60	32	e20	e17	23	107	282	149	3.7	9.2	20
5	49	62	28	e23	e18	32	99	304	122	3.6	5.3	19
6	53	58	47	29	e19	35	95	272	85	4.1	3.8	19
7	51	55	36	24	e19	49	93	254	62	4.8	2.8	17
8	75	52	36	20	e20	35	88	204	56	6.9	.90	12
9	72	37	35	e19	e20	25	81	171	47	15	.42	4.7
10	60	41	30	e16	e20	23	68	164	38	20	.19	3.8
11	56	45	e19	e17	20	22	70	206	34	33	e.01	3.0
12	56	44	e17	e19	19	25	114	239	27	27	e.00	17
13	61	50	e13	e19	19	31	138	228	22	18	e.00	23
14	60	49	e16	18	20	35	113	223	17	12	e.00	13
15	59	43	e18	18	24	40	99	197	20	9.7	e.00	11
16	58	35	e17	e18	23	58	87	153	19	7.6	e.00	11
17	60	35	e17	e15	20	68	81	142	18	6.5	e.00	9.9
18	59	36	e18	20	20	64	78	172	19	4.7	e.00	12
19	53	35	e19	e20	18	54	70	232	17	3.0	e.00	11
20	44	37	e19	e18	18	38	69	231	12	2.4	e.00	9.6
21	43	36	e18	18	18	37	85	285	8.3	3.6	4.5	7.8
22	42	35	e18	16	17	41	116	324	8.0	4.2	11	7.7
23	47	36	e18	e14	20	58	154	278	5.4	4.4	10	7.5
24	56	28	e18	e16	22	70	192	232	3.9	3.1	8.3	7.1
25	65	33	e18	e17	30	80	213	210	4.2	5.0	7.8	5.8
26	55	33	e18	e19	27	101	182	188	3.6	22	7.9	5.3
27	58	35	18	e19	20	100	152	181	2.6	22	8.3	4.8
28	58	39	12	20	17	93	134	184	1.4	45	7.8	4.8
29	54	36	13	19	---	87	124	204	2.3	56	6.6	5.3
30	52	38	e17	e19	---	77	128	204	2.9	20	5.9	34
31	51	---	e18	e19	---	68	---	185	---	26	4.8	---
TOTAL	1715	1284	726	586	557	1518	3241	6679	1304.6	409.3	383.52	426.8
MEAN	55.3	42.8	23.4	18.9	19.9	49.0	108	215	43.5	13.2	12.4	14.2
MAX	75	62	47	29	30	101	213	324	169	56	204	97
MIN	42	28	12	14	17	14	67	142	1.4	2.4	.00	3.0
AC-FT	3400	2550	1440	1160	1100	3010	6430	13250	2590	812	761	847

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1998, BY WATER YEAR (WY)

MEAN	27.2	20.0	14.6	13.7	25.8	59.8	127	179	86.6	28.9	28.6	26.5
MAX	459	113	45.5	45.6	92.1	198	330	642	395	185	364	137
(WY)	1942	1987	1942	1942	1993	1993	1980	1922	1957	1921	1921	1970
MIN	.11	1.00	.39	.31	7.24	5.26	.15	.000	.000	.000	.000	.000
(WY)	1978	1935	1960	1960	1977	1977	1977	1959	1951	1939	1922	1922

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1921 - 1998	
ANNUAL TOTAL	33428.92		18830.22			
ANNUAL MEAN	91.6		51.6		52.4	
HIGHEST ANNUAL MEAN					138	1973
LOWEST ANNUAL MEAN					4.28	1959
HIGHEST DAILY MEAN	551	May 22	324	May 22	3050	Oct 14 1941
LOWEST DAILY MEAN	e.20	Jul 21	e,a.00	Aug 12	b.00	Jul 12 1922
ANNUAL SEVEN-DAY MINIMUM	.25	Jul 15	e.00	Aug 12	.00	Jul 12 1922
INSTANTANEOUS PEAK FLOW			788	Aug 1	c5300	Oct 14 1941
INSTANTANEOUS PEAK STAGE			4.71	Aug 1	d7.30	Oct 14 1941
ANNUAL RUNOFF (AC-FT)	66310		37350		37960	
10 PERCENT EXCEEDS	251		155		147	
50 PERCENT EXCEEDS	46		24		16	
90 PERCENT EXCEEDS	16		4.7		.10	

e-Estimated.
a-Also occurred Aug 13-20.
b-No flow at times in most years.
c-Present site and datum, from rating curve extended above 200 ft^3/s, on basis of slope-area measurement of peak flow.
d-Maximum gage height, 8.50 ft, Sep 6, 1970.

09371010 SAN JUAN RIVER AT FOUR CORNERS, CO

LOCATION.--Lat 37°00'20", long 109°02'00", SE¼NE¼ sec.21, T.32 N., R.20 W., Montezuma County, Hydrologic Unit 14080201, on left bank 1,300 ft upstream from bridge on U.S. Highway 160, 0.1 mi north of New Mexico-Colorado State line, 1.0 mi east of Four Corners Monument, 3.0 mi downstream from Mancos River, and at mile 187.2.

DRAINAGE AREA.--14,600 mi^2, approximately.

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,900 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Flow partly regulated by Navajo Reservoir (09355100).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1800	1350	994	e1220	1180	1070	1630	4480	7660	2410	e1530	499
2	1650	1340	1000	e1180	1180	1090	1670	4630	7700	2130	e1480	589
3	1680	1290	1040	e1190	1160	1090	1650	4790	8160	2140	e1450	648
4	1640	1290	1000	e1250	1170	1070	1610	5160	8580	2010	e1410	765
5	1510	1280	995	e1280	1230	1140	1620	5400	7950	2110	e1360	728
6	1410	1240	947	e1270	1230	1270	1590	5340	7100	2230	e1310	597
7	1260	1230	964	e1190	1220	1260	1650	5000	6640	1930	e1270	560
8	1250	1250	1030	e1130	1260	1030	1700	4820	6560	2160	983	482
9	1290	1160	1250	e1080	1290	981	1660	4680	6450	2730	800	483
10	1370	1220	1350	e1140	1240	944	1450	4560	6330	e2890	680	484
11	1260	1210	901	e1200	1230	889	1340	4620	5860	2760	609	499
12	1300	1370	757	e1190	1220	899	1320	5060	4840	2620	494	520
13	1600	1430	e1230	e1180	1230	930	1580	5260	4310	2230	466	656
14	1550	1360	e1320	e1260	1210	943	1740	5480	4460	1890	458	856
15	1470	1250	e1280	1220	1260	992	1690	5660	4530	1610	525	794
16	1490	1180	e1280	1240	1480	1040	1490	5400	3890	e1180	583	601
17	1550	1110	e1300	1230	1280	1140	1470	5190	3420	e1120	539	562
18	1360	1080	e1290	1230	1260	1190	1380	5240	2840	e1000	466	558
19	1260	1120	e1270	1290	1220	1330	1360	5730	2270	e920	407	566
20	1200	1110	e1240	1280	1260	1150	1300	6140	2110	e875	345	546
21	1180	1120	e1200	1270	1270	1050	1250	6320	2430	e850	484	519
22	1170	1100	e1220	1250	1270	1040	1170	7060	2510	750	e2000	496
23	1170	1040	e1250	1160	1280	1080	1150	7420	2620	703	e5200	480
24	1220	1030	e1240	1160	1270	1190	1560	6920	2650	757	e3000	463
25	1470	1010	e1220	1180	1220	1370	2820	6890	2570	1110	e1600	458
26	1480	1010	e1240	1180	1230	1720	3430	6720	2390	1330	872	453
27	1400	1010	e1160	1170	1200	2180	3490	6760	2320	2110	658	450
28	1360	1030	e1210	1180	1130	2260	3620	7040	2370	2700	663	450
29	1390	1040	e1230	1230	---	2140	3840	7430	2400	2710	611	450
30	1420	1000	e1180	1220	---	2020	4060	7740	2330	2160	522	e1000
31	1360	---	e1180	1210	---	1780	---	7810	---	1740	500	---
TOTAL	43520	35260	35768	37460	34680	39278	57290	180750	136250	55865	33275	17212
MEAN	1404	1175	1154	1208	1239	1267	1910	5831	4542	1802	1073	574
MAX	1800	1430	1350	1290	1480	2260	4060	7810	8580	2890	5200	1000
MIN	1170	1000	757	1080	1130	889	1150	4480	2110	703	345	450
AC-FT	86320	69940	70950	74300	68790	77910	113600	358500	270300	110800	66000	34140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1998, BY WATER YEAR (WY)

MEAN	1280	1381	1411	1494	1600	2146	3058	4843	5429	2504	1392	1341
MAX	2959	3732	3466	3300	3365	5454	7893	10220	10370	6846	3016	3243
(WY)	1987	1987	1987	1987	1987	1993	1979	1979	1979	1979	1986	1986
MIN	634	838	700	760	695	707	606	1030	1236	714	259	467
(WY)	1978	1980	1997	1990	1997	1990	1996	1981	1989	1996	1978	1989

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1978 - 1998	
ANNUAL TOTAL	976782		706608			
ANNUAL MEAN	2676		1936		2323	
HIGHEST ANNUAL MEAN					4180	1987
LOWEST ANNUAL MEAN					991	1990
HIGHEST DAILY MEAN	11900	Jun 4	8580	Jun 4	16400	May 29 1979
LOWEST DAILY MEAN	603	Feb 16	345	Aug 20	110	Aug 17 1978
ANNUAL SEVEN-DAY MINIMUM	618	Feb 11	458	Sep 23	126	Aug 14 1978
INSTANTANEOUS PEAK FLOW			9200	Jun 3	16900	May 29 1979
INSTANTANEOUS PEAK STAGE			4.90	Jun 3	a6.25	May 29 1979
ANNUAL RUNOFF (AC-FT)	1937000		1402000		1683000	
10 PERCENT EXCEEDS	7730		4900		5610	
50 PERCENT EXCEEDS	1560		1260		1450	
90 PERCENT EXCEEDS	703		610		706	

e-Estimated.
a-Maximum gage height, 14.43 ft, Dec. 12, 1978, (backwater from ice).

09371492 MUD CREEK AT HIGHWAY 32, NEAR CORTEZ, CO

LOCATION.--Lat 37°18'46", long 108°39'38", in SW¼SW¼ 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 mi^2.

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 fair 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	1.5	1.5	e1.4	e1.1	e1.1	1.0	1.1	15	10	26	14
2	11	1.3	1.4	1.4	1.0	1.2	1.2	1.2	14	13	19	18
3	14	1.4	1.3	1.5	1.2	1.2	1.1	1.3	14	13	15	19
4	13	1.5	1.1	1.8	e1.3	1.0	1.1	.96	19	13	14	19
5	11	1.4	1.1	2.0	e1.3	1.0	1.3	.94	22	16	12	19
6	11	1.5	1.2	1.5	1.3	1.5	1.3	1.5	20	18	13	18
7	11	1.5	1.4	e1.1	e1.3	2.4	1.4	1.4	17	17	13	15
8	16	1.6	2.0	1.2	e1.5	1.4	1.1	1.2	16	22	13	14
9	13	2.4	1.7	1.2	e1.4	.98	.88	1.6	15	21	14	14
10	13	2.4	1.3	1.0	e1.3	.80	.86	3.7	11	23	15	15
11	13	2.3	1.1	1.2	e1.3	.77	.93	6.2	14	16	17	16
12	13	3.3	1.0	1.5	e1.3	.77	.94	7.4	13	12	17	17
13	12	2.0	.93	e1.3	e1.3	.77	1.0	11	12	10	16	19
14	10	1.6	.98	e1.0	1.4	.80	1.0	10	12	10	20	16
15	2.9	1.3	1.1	e1.2	e1.6	.62	1.0	12	14	8.2	17	14
16	1.9	1.1	1.2	1.2	e1.5	.99	1.2	14	14	7.8	18	13
17	1.9	1.1	1.3	1.3	e1.5	1.1	1.3	14	13	9.7	17	13
18	1.9	1.1	1.3	1.3	e1.4	1.5	1.1	13	15	14	17	14
19	1.7	1.2	1.2	1.6	1.4	1.2	.93	15	15	14	16	14
20	1.8	1.4	1.1	1.7	1.3	.89	.89	16	12	13	18	12
21	1.9	1.3	1.1	e1.3	1.3	.81	.86	20	13	14	21	11
22	2.3	1.2	1.2	e1.0	1.3	.77	.85	17	11	17	21	9.3
23	2.3	1.1	1.2	e1.0	1.5	.77	1.0	19	9.2	15	19	11
24	3.1	1.2	e1.2	1.0	1.6	.78	1.0	16	10	20	16	11
25	3.3	1.3	e.90	e1.3	1.6	.80	1.0	16	15	19	16	13
26	2.5	1.5	e1.0	e1.4	1.4	.92	1.1	15	16	17	16	11
27	2.7	1.7	e1.1	1.4	1.2	1.2	1.2	16	15	23	17	10
28	2.1	1.5	e1.2	e1.3	1.1	1.2	1.1	17	13	21	17	9.9
29	1.7	1.4	e1.3	e1.3	---	2.2	1.1	17	10	24	15	9.9
30	1.6	1.3	e1.3	1.1	---	1.6	1.0	17	9.7	20	14	11
31	1.6	---	e1.4	1.1	---	1.3	---	15	---	16	14	---
TOTAL	209.2	46.4	38.11	40.6	37.7	34.34	31.74	318.50	418.9	486.7	513	420.1
MEAN	6.75	1.55	1.23	1.31	1.35	1.11	1.06	10.3	14.0	15.7	16.5	14.0
MAX	16	3.3	2.0	2.0	1.6	2.4	1.4	20	22	24	26	19
MIN	1.6	1.1	.90	1.0	1.0	.62	.85	.94	9.2	7.8	12	9.3
AC-FT	415	92	76	81	75	68	63	632	831	965	1020	833

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1998, BY WATER YEAR (WY)

MEAN	8.38	3.49	3.11	2.59	3.21	3.85	3.45	10.1	14.3	15.2	15.9	13.0
MAX	17.5	5.94	6.00	3.86	7.99	10.3	5.60	13.1	18.1	18.0	21.5	17.6
(WY)	1994	1994	1985	1997	1983	1983	1994	1982	1985	1986	1983	1986
MIN	5.02	1.55	1.23	1.31	1.35	1.11	1.06	7.48	10.5	12.3	11.8	9.53
(WY)	1996	1998	1998	1998	1998	1998	1998	1986	1994	1994	1995	1995

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1982 - 1998	
ANNUAL TOTAL	2756.02		2595.29			
ANNUAL MEAN	7.55		7.11		8.14	
HIGHEST ANNUAL MEAN					9.47	1985
LOWEST ANNUAL MEAN					6.63	1996
HIGHEST DAILY MEAN	24	Sep 16	26	Aug 1	75	Mar 6 1995
LOWEST DAILY MEAN	.63	Jan 19	.62	Mar 15	.62	Mar 15 1998
ANNUAL SEVEN-DAY MINIMUM	1.1	Dec 10	.79	Mar 9	.79	Mar 9 1998
INSTANTANEOUS PEAK FLOW			29	Aug 1	a598	Aug 24 1982
INSTANTANEOUS PEAK STAGE			2.35	Aug 1	8.53	Aug 24 1982
ANNUAL RUNOFF (AC-FT)	5470		5150		5900	
10 PERCENT EXCEEDS	16		17		17	
50 PERCENT EXCEEDS	3.8		1.7		5.8	
90 PERCENT EXCEEDS	1.3		1.0		1.6	

e-Estimated.
a-From rating curve extended above 26 ft^3/s, on basis of slope-area measurement of peak flow.

09371492 MUD CREEK AT HIGHWAY 32, NEAR CORTEZ, CO--Continued

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 Mar. 11 to Apr. 28, June 5-24, and Sep. 25-30 which are poor. Daily records of water temperature are good. Daily data that are not published are due to probes being isolated by ice.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 9,760 microsiemens, Apr. 4, 1997; minimum, 981 microsiemens, June 8 and 9, 1998.
WATER TEMPERATURE: Maximum, 25.6°C, July 6, 1996; minimum, -0.5°C, Dec. 2, 1995.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 7,790 microsiemens, Mar. 8 (may have been higher during period of no record Dec. 15 to Jan. 11); minimum, 981 microsiemens, June 8, 9.
WATER TEMPERATURE: Maximum, 25.3°C, July 16; minimum recorded, -0.3°C, Feb. 13, 16 and Mar. 8 (may have been lower during period of no record Dec. 16 to Jan. 11).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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)	pH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	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)
OCT										
30...	1215	1.6	4680	8.4	8.1	5.0	2200	350	310	490
DEC										
18...	1425	1.1	5630	8.1	8.0	0.0	2800	470	410	620
JAN										
20...	1350	1.7	5670	8.3	8.0	1.0	2700	380	430	630
MAR										
11...	1145	0.70	5660	8.3	7.9	3.0	2800	430	410	620
APR										
28...	1225	1.2	5550	8.2	7.9	9.0	2700	430	400	600
JUN										
24...	1310	10	1790	8.2	8.0	18.0	880	200	94	95
JUL										
15...	1245	8.0	1820	--	8.1	19.5	880	200	93	100
AUG										
11...	1400	16	1610	--	8.2	20.0	760	180	77	69
25...	1530	17	1640	--	8.0	19.5	830	200	84	73

DATE	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, 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										
30...	5	7.2	332	2600	81	0.4	8.5	4080	5.54	17.6
DEC										
18...	5	7.7	440	3400	98	0.5	11	5230	7.12	15.8
JAN										
20...	5	8.9	406	3400	99	0.6	10	5190	7.06	23.8
MAR										
11...	5	7.7	377	3300	98	0.5	7.3	5060	6.88	9.57
APR										
28...	5	8.1	345	3200	100	0.5	8.8	5000	6.80	16.2
JUN										
24...	1	4.3	247	780	17	0.3	9.3	1340	1.82	36.2
JUL										
15...	2	4.3	262	780	18	0.4	11	1370	1.86	29.5
AUG										
11...	1	4.0	238	660	13	0.3	10	1150	1.57	49.8
25...	1	4.6	245	700	14	0.3	11	1230	1.67	56.5

09371492 MUD CREEK AT HIGHWAY 32, NEAR CORTEZ, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	2080	2030	2050	4900	4760	4800	5510	5310	5430	---	---	---
2	2100	2050	2080	5000	4800	4920	5600	5380	5460	---	---	---
3	2070	1990	2030	5010	4860	4900	5550	5360	5440	---	---	---
4	2120	1980	2000	4950	4800	4860	5810	5420	5510	---	---	---
5	2210	1990	2070	4990	4790	4860	5800	5510	5620	---	---	---
6	2230	2020	2100	5000	4860	4910	5700	5440	5570	---	---	---
7	2270	2010	2110	4980	4820	4880	5550	5300	5350	---	---	---
8	2550	1990	2200	4970	4860	4900	5910	5290	5630	---	---	---
9	2220	1990	2090	5120	4800	4920	5940	5460	5720	---	---	---
10	2170	1910	2020	5170	4800	4910	5760	5450	5570	---	---	---
11	2140	1910	2010	4860	4500	4760	5660	5460	5560	---	---	---
12	2310	1960	2060	6180	4560	5330	5870	5570	5720	6420	5260	5890
13	2130	1940	2040	5630	5140	5330	5870	5680	5770	6770	5570	6130
14	2660	1990	2140	5670	5290	5440	5720	5250	5460	5990	5580	5770
15	3920	2550	3280	5690	5320	5470	---	---	---	5840	5550	5700
16	4350	3620	3920	5610	5440	5530	---	---	---	5580	5370	5450
17	4540	4010	4210	5670	5480	5550	---	---	---	5890	5490	5700
18	4520	4080	4230	5620	5400	5530	---	---	---	5870	5400	5620
19	4730	4150	4400	5580	5380	5470	---	---	---	5680	5100	5470
20	4710	4080	4310	5660	5310	5490	---	---	---	5800	5230	5470
21	4610	3930	4180	5610	5250	5430	---	---	---	5640	5330	5410
22	4430	3030	3930	5700	5340	5470	---	---	---	5620	5260	5370
23	4240	3840	3970	5600	5390	5490	---	---	---	5440	5190	5300
24	4190	3830	3950	5570	5370	5470	---	---	---	5380	5100	5200
25	4600	4010	4280	5500	5290	5400	---	---	---	5410	5060	5210
26	4330	3980	4210	5610	5330	5450	---	---	---	5360	5150	5260
27	4120	3870	4050	5500	5400	5440	---	---	---	5420	5090	5230
28	4540	3960	4200	5520	5380	5420	---	---	---	5480	5180	5260
29	4760	4450	4550	5540	5340	5430	---	---	---	5480	5180	5250
30	4910	4560	4680	5540	5370	5440	---	---	---	5340	5090	5220
31	4990	4640	4780	---	---	---	---	---	---	5310	5170	5230
MONTH	4990	1910	3230	6180	4500	5240	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	5440	5230	5320	5710	5450	5580	6210	5990	6100	5860	5480	5580
2	5330	5150	5240	5700	5410	5510	6090	5860	5990	5640	5030	5350
3	5340	5150	5270	5600	5310	5410	6070	5930	5990	5440	5010	5170
4	5400	5220	5290	5460	5330	5370	6810	5850	6110	5540	5150	5400
5	5350	5220	5290	5440	5360	5390	6780	5490	6000	5490	5270	5360
6	5530	5290	5350	5930	5250	5480	5530	5270	5410	5490	5130	5340
7	5730	5230	5420	7060	5920	6630	5370	5230	5280	5300	4930	5070
8	5930	5460	5720	7790	5920	6690	5900	5290	5560	5260	5140	5210
9	7180	5810	6530	5930	5620	5760	5950	5820	5900	5150	4480	4840
10	6280	5510	5880	5690	5570	5610	5960	5810	5910	4760	2990	3540
11	5750	5480	5590	5880	5460	5580	6040	5800	5920	3600	2410	2540
12	5690	5420	5500	5630	5470	5580	6100	5750	5940	3050	1940	2380
13	5660	5410	5500	5710	5490	5580	6190	5800	5930	1940	1740	1790
14	5520	5380	5440	5670	5500	5580	6020	5850	5960	1800	1650	1700
15	5850	5290	5490	5850	5570	5690	6060	5890	5960	1810	1550	1690
16	7760	5760	6470	6510	5720	5940	6070	5740	5870	1550	1470	1510
17	6430	5880	6170	6230	5440	5700	6010	5750	5910	1550	1490	1520
18	6130	5720	5910	6440	5580	5880	5970	5840	5930	1520	1480	1500
19	5790	5460	5630	6470	5860	6060	6010	5850	5930	1500	1430	1460
20	5570	5480	5510	5940	5750	5850	6030	5820	5910	1540	1490	1520
21	5550	5400	5490	5950	5740	5870	5960	5800	5880	1560	1480	1520
22	5550	5430	5460	5930	5750	5840	5940	5760	5840	1500	1410	1460
23	5650	5470	5560	5920	5740	5850	5910	5500	5670	1410	1270	1320
24	5650	5530	5570	5950	5720	5870	5790	5700	5740	1480	1330	1420
25	5670	5440	5520	5950	5740	5870	5800	5610	5680	1480	1430	1450
26	5820	5570	5650	5960	5800	5880	5710	5560	5620	1460	1400	1430
27	5740	5480	5580	5920	5790	5820	5700	5490	5580	1510	1390	1440
28	5780	5480	5630	5920	5820	5870	5760	5560	5640	1490	1340	1390
29	---	---	---	7290	5780	6470	5770	5540	5590	1390	1340	1360
30	---	---	---	6270	5980	6100	5650	5400	5510	1390	1290	1340
31	---	---	---	6310	6130	6220	---	---	---	1480	1360	1410
MONTH	7760	5150	5610	7790	5250	5820	6810	5230	5810	5860	1270	2710

09371492 MUD CREEK AT HIGHWAY 32, NEAR CORTEZ, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	1440	1350	1410	1710	1530	1640	3500	1630	2040	1760	1640	1690
2	1640	1350	1490	1580	1380	1470	1720	1640	1680	1850	1590	1690
3	1480	1350	1420	1560	1340	1450	1720	1670	1690	1690	1580	1640
4	1390	1240	1290	1580	1370	1490	1720	1610	1670	1640	1540	1590
5	1350	1190	1280	1560	1460	1490	1670	1590	1650	1600	1510	1550
6	1370	1070	1260	1580	1440	1520	1720	1580	1650	1640	1530	1590
7	1110	991	1050	1610	1490	1560	1690	1570	1640	1910	1630	1690
8	1030	981	1010	1700	1420	1550	1660	1580	1620	1790	1610	1700
9	1140	981	1070	1720	1630	1660	1770	1590	1660	1630	1580	1610
10	1120	1070	1090	1660	1550	1590	1620	1530	1590	1720	1600	1670
11	1100	1070	1080	1780	1630	1690	1640	1510	1570	1660	1590	1630
12	1120	1090	1110	1790	1720	1750	1700	1580	1660	1620	1500	1560
13	1230	1120	1160	1890	1690	1810	1700	1570	1650	1780	1500	1600
14	1280	1170	1240	1760	1630	1700	1600	1540	1580	1620	1440	1540
15	1340	1160	1290	1950	1640	1770	1690	1540	1640	1680	1510	1570
16	1690	1310	1480	1840	1620	1760	1680	1580	1630	1720	1610	1650
17	1810	1690	1750	1950	1660	1790	1670	1580	1630	1740	1620	1680
18	1940	1680	1790	1690	1550	1640	1660	1570	1610	1710	1590	1670
19	1860	1730	1800	1610	1540	1570	1740	1590	1660	1720	1590	1660
20	2000	1840	1900	1650	1510	1580	1680	1430	1540	2010	1580	1730
21	1930	1830	1880	1600	1510	1560	1850	1440	1630	1760	1710	1730
22	1920	1770	1860	1570	1480	1520	1620	1550	1590	1900	1720	1800
23	1790	1720	1760	1580	1450	1510	1670	1610	1640	1890	1590	1770
24	1840	1700	1760	1630	1470	1570	1680	1590	1640	1720	1590	1690
25	1730	1440	1570	1690	1580	1630	1700	1630	1670	1710	1170	1500
26	1630	1440	1540	1620	1540	1590	1770	1670	1710	1570	1390	1500
27	1580	1480	1510	1760	1090	1610	1680	1620	1650	1770	1570	1660
28	1710	1560	1630	2130	1640	1770	1680	1560	1620	1890	1760	1850
29	1750	1560	1680	1830	1640	1700	1730	1580	1660	2070	1880	1990
30	1910	1550	1730	1690	1590	1630	1660	1600	1620	2050	1910	2000
31	---	---	---	1860	1600	1670	1680	1600	1640	---	---	---
MONTH	2000	981	1460	2130	1090	1620	3500	1430	1650	2070	1170	1670

TEMPERATURE, WATER (DEG.C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.4	12.0	14.2	7.0	4.9	5.9	4.1	2.2	2.9	---	---	---
2	16.5	13.4	14.9	5.9	3.3	4.6	3.2	1.5	2.4	---	---	---
3	17.3	14.2	15.5	5.2	2.2	4.0	2.8	.7	2.1	---	---	---
4	15.8	11.9	14.0	5.3	2.1	3.9	.7	-.2	.0	---	---	---
5	15.8	11.2	13.4	5.6	2.5	4.1	-.1	-.2	-.2	---	---	---
6	15.7	11.3	13.4	5.3	2.0	3.8	.0	-.2	-.2	---	---	---
7	13.6	11.2	12.4	5.1	1.9	3.7	1.6	-.1	.9	---	---	---
8	12.2	10.3	11.2	5.3	2.4	4.0	1.8	1.0	1.4	---	---	---
9	12.4	8.4	10.4	6.1	5.0	5.5	1.3	.2	.8	---	---	---
10	14.3	10.2	12.0	5.6	3.9	4.9	.8	-.2	.1	---	---	---
11	13.1	11.2	12.2	6.6	4.9	5.6	.0	-.2	-.2	---	---	---
12	11.2	8.4	9.6	5.6	4.2	5.0	.0	-.2	-.2	1.3	-.1	.6
13	9.1	5.8	7.6	5.3	4.5	5.0	.0	-.2	-.2	.8	-.2	.3
14	9.8	5.5	7.6	5.0	3.5	4.5	.0	-.2	-.2	.7	-.2	.1
15	8.9	4.9	7.1	3.5	.4	1.8	-.1	-.2	-.1	.4	-.2	.0
16	9.2	5.6	7.7	2.1	-.2	.8	---	---	---	1.6	.3	.8
17	9.1	5.4	7.5	1.7	-.2	.5	---	---	---	1.4	-.1	.7
18	9.0	5.3	7.4	1.6	-.2	.5	---	---	---	1.5	-.2	.6
19	8.7	5.0	7.2	3.2	.7	2.0	---	---	---	1.7	-.2	.6
20	8.7	5.2	7.1	4.2	2.0	3.1	---	---	---	1.3	-.1	.5
21	8.0	4.6	6.6	2.7	1.2	2.0	---	---	---	.4	-.2	.0
22	7.8	4.3	6.2	1.5	-.2	.5	---	---	---	.1	-.2	-.1
23	7.6	4.3	6.1	1.4	-.2	.3	---	---	---	.6	-.2	.0
24	7.4	5.0	6.0	1.4	-.2	.4	---	---	---	1.2	-.2	.2
25	5.2	3.2	4.1	2.7	.0	1.3	---	---	---	1.5	-.2	.4
26	4.8	1.7	3.5	4.4	2.5	3.4	---	---	---	1.7	-.2	.5
27	5.5	1.9	3.8	4.5	3.6	4.1	---	---	---	1.5	-.2	.5
28	5.5	2.3	4.1	3.8	2.3	3.0	---	---	---	1.0	-.2	.3
29	5.8	2.8	4.5	2.6	.5	1.7	---	---	---	.9	-.2	.2
30	6.4	3.0	4.8	2.5	-.1	1.3	---	---	---	1.8	-.2	.8
31	6.6	3.3	5.2	---	---	---	---	---	---	2.0	-.1	.9
MONTH	17.3	1.7	8.6	7.0	-.2	3.0	---	---	---	---	---	---

09371492 MUD CREEK AT HIGHWAY 32, NEAR CORTEZ, CO--Continued

TEMPERATURE, WATER (DEG.C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.2	-.2	.3	1.9	-.2	.5	8.9	3.2	6.2	16.2	7.4	11.6
2	1.4	-.2	.6	2.7	-.2	.8	6.4	4.0	5.2	17.0	7.4	12.0
3	2.9	.5	1.7	4.7	-.2	2.0	9.7	2.4	6.0	16.8	8.1	12.3
4	2.9	1.7	2.4	4.7	1.2	2.8	10.9	4.3	7.5	16.8	7.2	11.9
5	3.6	1.7	2.5	6.1	2.6	4.1	10.8	4.4	7.5	15.2	8.3	11.9
6	2.3	-.1	1.3	4.5	2.8	3.7	8.8	5.2	7.0	14.8	10.0	12.1
7	2.3	1.2	1.8	4.0	1.3	2.5	8.1	5.2	6.5	16.8	8.4	12.3
8	1.5	.5	1.1	4.1	-.3	1.8	9.8	4.6	7.0	13.7	7.9	11.3
9	2.2	.3	1.2	4.6	-.2	2.1	9.5	3.2	6.3	15.8	8.6	12.3
10	2.4	-.2	1.1	5.4	-.1	2.5	12.0	3.2	7.4	18.0	8.8	13.2
11	2.3	-.2	.8	6.4	.6	3.4	13.4	5.2	9.1	17.3	9.8	13.3
12	2.8	-.2	1.1	7.2	1.4	4.1	9.4	6.1	7.4	16.6	9.6	12.8
13	2.2	-.3	.9	6.9	1.6	4.4	10.1	4.8	7.2	16.1	10.8	13.3
14	2.9	.6	1.9	7.6	3.5	5.6	8.9	6.1	7.4	14.5	10.7	12.4
15	2.5	.7	1.7	9.0	3.6	6.1	9.3	5.1	6.9	15.1	8.3	11.8
16	2.7	-.3	1.1	9.0	4.6	6.8	6.7	3.0	5.0	14.6	10.0	12.3
17	2.7	.6	1.7	7.8	3.1	5.7	9.0	4.1	6.3	16.5	9.8	13.1
18	3.8	.3	2.0	6.5	3.7	4.7	11.9	4.8	8.0	17.2	11.9	14.6
19	3.7	.0	1.9	7.2	1.3	4.2	12.0	3.6	7.8	16.4	13.0	14.8
20	4.0	1.3	2.5	7.8	1.7	4.7	13.3	5.2	9.1	15.5	12.7	14.4
21	3.9	.2	2.1	8.9	1.9	5.3	14.2	5.1	9.6	17.6	12.9	15.2
22	2.9	1.6	2.2	10.2	3.1	6.6	15.1	5.5	10.2	16.8	11.8	14.5
23	5.4	2.1	3.6	11.3	4.1	7.6	15.3	6.7	11.1	16.5	11.0	14.0
24	4.9	3.0	3.9	12.1	5.3	8.7	14.4	8.0	11.4	17.8	11.9	15.0
25	3.6	1.7	2.5	12.7	6.4	9.3	13.2	7.7	10.4	18.3	11.6	15.1
26	3.0	-.2	1.3	9.8	7.1	8.4	9.6	5.8	8.2	17.5	12.7	15.1
27	2.3	-.2	.8	9.5	6.2	7.7	14.1	5.8	9.4	18.2	11.7	15.0
28	1.0	-.2	.1	7.7	5.3	6.5	11.5	6.2	9.1	19.3	12.8	16.2
29	---	---	---	6.4	3.2	4.9	15.2	5.9	10.3	19.5	13.7	16.7
30	---	---	---	6.4	1.4	3.9	16.3	6.6	11.3	18.6	14.3	16.6
31	---	---	---	9.3	2.6	5.8	---	---	---	18.5	13.0	15.9
MONTH	5.4	-.3	1.6	12.7	-.3	4.7	16.3	2.4	8.1	19.5	7.2	13.6
		JUNE			JULY			AUGUST			SEPTEMBER	
1	20.2	14.0	17.1	22.6	16.4	19.7	21.7	17.9	19.8	20.0	17.7	18.9
2	19.9	13.3	16.9	23.2	17.8	20.5	21.6	18.1	20.0	20.5	16.8	18.7
3	18.6	14.3	16.5	24.0	19.2	21.6	21.8	17.5	19.9	20.3	17.1	19.0
4	15.4	12.2	13.5	23.7	19.5	21.7	22.2	17.4	19.9	19.9	17.8	18.9
5	16.7	10.7	13.6	23.5	19.3	21.3	22.9	18.1	20.7	19.2	16.8	17.9
6	17.1	12.1	14.9	24.0	19.7	21.7	23.0	18.0	20.7	19.1	16.3	17.9
7	18.2	13.2	15.6	22.5	19.2	20.6	22.5	17.4	20.1	19.8	15.6	17.8
8	16.3	11.7	14.4	21.6	16.9	19.2	22.6	17.9	20.3	19.4	16.6	17.9
9	17.9	12.4	15.2	20.7	19.0	20.0	21.0	18.4	19.8	18.6	16.0	17.4
10	16.1	12.9	14.7	23.2	18.2	20.6	20.6	18.1	19.1	18.8	16.7	17.8
11	17.0	11.9	14.6	23.5	18.9	21.2	21.1	17.4	19.2	18.9	16.6	17.9
12	19.1	12.3	15.7	24.1	17.7	20.9	21.7	17.1	19.6	20.0	17.1	18.4
13	19.0	14.0	16.4	23.0	17.8	20.6	21.0	17.3	19.1	19.6	16.6	18.2
14	17.9	13.0	15.7	24.4	17.5	20.9	21.0	16.2	18.6	18.9	15.2	17.3
15	18.8	13.1	16.0	24.6	17.5	20.9	22.4	17.4	20.0	19.3	15.2	17.2
16	17.9	13.5	15.9	25.3	18.5	21.4	21.1	17.1	19.3	18.7	15.2	17.0
17	18.5	13.6	15.9	25.0	18.8	21.8	21.8	16.9	19.3	18.2	13.9	16.3
18	18.6	12.4	15.6	25.1	19.3	22.2	20.8	18.4	19.8	17.4	14.3	16.2
19	19.5	13.2	16.5	23.0	19.0	21.2	21.0	16.6	19.0	17.9	14.1	16.0
20	18.9	14.2	16.9	22.5	17.5	20.2	21.5	17.6	19.6	17.1	12.6	14.9
21	20.4	14.4	17.4	23.9	18.4	21.0	20.8	18.8	19.7	16.4	12.3	14.3
22	20.5	14.1	17.4	23.7	19.2	21.7	21.6	17.7	19.8	14.4	11.1	12.9
23	20.6	14.2	17.3	24.1	19.9	22.1	22.0	17.8	20.1	16.7	12.2	14.2
24	20.2	13.7	17.0	21.6	19.4	20.6	21.3	18.7	20.0	16.6	11.9	14.3
25	19.5	13.9	16.9	23.2	19.5	21.3	20.2	17.9	19.3	16.0	11.8	14.0
26	20.4	14.6	17.7	23.0	19.6	21.4	21.2	18.2	19.7	15.2	10.8	13.1
27	21.1	15.4	18.4	21.8	18.7	20.3	21.7	18.0	19.8	15.1	10.2	12.7
28	22.2	15.7	19.0	21.7	18.5	20.1	20.7	16.4	18.8	14.6	10.9	12.9
29	23.0	16.3	19.9	22.7	18.6	20.8	21.3	16.8	19.1	16.4	11.7	14.0
30	23.1	16.5	19.9	22.4	19.2	21.0	21.6	16.8	19.3	17.0	14.0	15.3
31	---	---	---	22.8	19.3	20.8	20.5	18.1	19.4	---	---	---
MONTH	23.1	10.7	16.4	25.3	16.4	20.9	23.0	16.2	19.6	20.5	10.2	16.3

09371520 McELMO CREEK ABOVE TRAIL CANYON, NEAR CORTEZ, CO

LOCATION.--Lat 37°19'36", long 108°42'00", in NE¼NE¼ 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 mi^2.

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, 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 ft^3/s, gage height, 5.72 ft, site and datum then in use. Feb. 20, 1993, 890 ft^3/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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	55	38	e35	26	26	38	37	105	73	174	96
2	90	53	38	e35	27	26	36	35	100	72	135	120
3	110	52	36	e43	27	29	39	28	102	71	114	116
4	96	54	31	e48	e31	34	42	36	108	74	100	120
5	84	54	34	e35	e30	34	35	44	115	84	101	118
6	82	53	46	e28	e31	43	31	55	97	98	96	118
7	85	53	38	e30	31	64	31	66	100	100	85	114
8	136	53	e42	e32	36	43	34	76	88	121	80	113
9	95	73	e31	e38	35	40	31	87	83	114	86	118
10	85	88	e24	e36	33	39	28	80	82	128	92	114
11	85	71	e29	e34	31	39	26	78	87	111	92	119
12	89	106	e32	e31	30	39	24	74	79	100	93	134
13	87	80	e32	e25	29	37	32	81	87	93	93	142
14	74	66	e31	e30	31	36	30	88	92	90	114	131
15	70	55	e31	e35	36	37	28	95	97	85	108	118
16	67	46	e33	e32	e33	37	28	92	96	77	108	105
17	64	46	e35	e32	34	37	33	88	94	77	108	100
18	62	46	e31	e35	33	41	37	84	96	86	108	92
19	58	45	e31	e37	e33	42	33	88	85	86	101	85
20	57	44	e33	e25	e33	36	30	86	85	92	102	80
21	59	43	e33	e26	33	31	29	107	89	91	118	81
22	58	41	e32	e27	34	30	29	108	86	103	122	79
23	58	40	e30	e29	38	29	29	111	73	96	108	87
24	73	39	e24	e31	50	29	27	110	74	143	103	88
25	97	38	e25	e32	47	28	25	109	84	124	101	91
26	91	40	e28	e33	36	27	23	104	83	119	105	83
27	84	44	e30	e31	32	36	26	103	88	184	103	83
28	74	44	e31	30	26	39	26	103	81	167	105	87
29	62	41	e33	32	---	52	25	110	74	186	98	90
30	61	38	e34	32	---	48	27	105	76	136	98	100
31	56	---	e35	31	---	42	---	104	---	115	99	---
TOTAL	2438	1601	1011	1010	926	1150	912	2572	2686	3296	3250	3122
MEAN	78.6	53.4	32.6	32.6	33.1	37.1	30.4	83.0	89.5	106	105	104
MAX	136	106	46	48	50	64	42	111	115	186	174	142
MIN	56	38	24	25	26	26	23	28	73	71	80	79
AC-FT	4840	3180	2010	2000	1840	2280	1810	5100	5330	6540	6450	6190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1998, BY WATER YEAR (WY)

MEAN	84.3	49.9	36.3	37.3	43.8	52.0	41.4	66.1	86.5	97.4	108	106
MAX	125	60.9	42.6	58.8	62.5	87.4	82.8	83.0	100	108	125	126
(WY)	1994	1994	1997	1997	1994	1995	1997	1998	1997	1997	1995	1997
MIN	68.1	37.1	27.5	23.4	26.7	19.9	22.6	50.7	59.0	82.4	94.2	80.4
(WY)	1995	1997	1996	1996	1996	1996	1996	1996	1994	1994	1996	1996

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1993 - 1998	
ANNUAL TOTAL	29215		23974			
ANNUAL MEAN	80.0		65.7		67.6	
HIGHEST ANNUAL MEAN					78.8	1997
LOWEST ANNUAL MEAN					54.2	1996
HIGHEST DAILY MEAN	289	Sep 22	186	Jul 29	757	Mar 6 1995
LOWEST DAILY MEAN	e24	Dec 10	23	Apr 26	11	Apr 9 1996
ANNUAL SEVEN-DAY MINIMUM	29	Dec 22	26	Apr 24	13	Apr 6 1996
INSTANTANEOUS PEAK FLOW			255	Jul 27	1080	Mar 6 1995
INSTANTANEOUS PEAK STAGE			4.05	Jul 27	8.42	Mar 6 1995
ANNUAL RUNOFF (AC-FT)	57950		47550		48970	
10 PERCENT EXCEEDS	130		110		117	
50 PERCENT EXCEEDS	78		58		58	
90 PERCENT EXCEEDS	36		29		28	

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. 29 to Dec. 19, Jan. 7-13, and Jan. 20 to Mar. 11 which are poor. Missing daily values Dec. 30 to Jan. 6 due to instrument failure.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 3,750 microsiemens, Feb. 13, 1994; minimum, 1,020 microsiemens, Sept. 22-24, 1997.
WATER TEMPERATURE: Maximum, 26.3°C, July 5-6, 1996; minimum, -0.4°C during winter months most years.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 3,630 microsiemens, Mar. 1; minimum, 1,040 microsiemens, July 27.
WATER TEMPERATURE: Maximum, 25.9°C, July 18; minimum, -0.3°C on several days November to December.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	pH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	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)
OCT										
29...	1015	60	2070	8.5	8.0	5.0	1200	280	120	97
DEC										
19...	1130	31	2860	8.4	7.8	0.0	1600	350	180	160
JAN										
20...	1205	34	2700	8.6	8.0	0.5	1500	310	180	160
MAR										
11...	0930	41	2700	8.5	7.9	2.0	1500	300	180	160
APR										
28...	1025	27	2440	8.5	8.0	9.5	1300	260	150	150
JUN										
24...	1020	74	1290	8.4	8.1	15.0	650	150	65	51
JUL										
15...	1015	87	1200	--	8.2	19.0	600	150	56	42
AUG										
11...	1230	93	1290	--	8.3	20.0	610	140	60	48
25...	1030	98	1270	--	8.2	19.0	630	150	63	49

DATE	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, 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										
29...	1	4.3	240	1000	23	0.4	9.1	1700	2.32	276
DEC										
19...	2	3.9	293	1500	31	0.4	11	2450	3.34	206
JAN										
20...	2	4.7	299	1500	33	0.4	9.6	2340	3.19	215
MAR										
11...	2	4.6	277	1400	34	0.3	7.9	2280	3.10	252
APR										
28...	2	4.3	218	1300	30	0.3	4.4	1990	2.70	145
JUN										
24...	0.9	3.7	215	500	12	0.3	10	922	1.25	184
JUL										
15...	0.7	3.6	230	440	9.9	0.4	12	847	1.15	199
AUG										
11...	0.9	3.4	237	480	11	0.3	11	902	1.23	227
25...	0.8	3.7	231	480	11	0.3	12	909	1.24	240

09371520 McELMO CREEK ABOVE TRAIL CANYON, NEAR CORTEZ, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	1690	1610	1630	2130	2090	2110	2570	2480	2520	---	---	---
2	1650	1590	1620	2170	2120	2140	2540	2480	2510	---	---	---
3	1710	1550	1660	2190	2150	2170	2520	2460	2490	---	---	---
4	1710	1640	1670	2230	2160	2200	2620	2330	2460	---	---	---
5	1700	1670	1690	2200	2160	2170	2580	2260	2420	---	---	---
6	1710	1680	1700	2260	2190	2220	2480	2200	2350	---	---	---
7	1730	1680	1710	2290	2220	2260	2260	2200	2220	2990	2580	2790
8	2070	1670	1840	2310	2230	2260	2210	2180	2200	2760	2540	2670
9	1900	1840	1870	2380	2190	2260	2340	2190	2280	2720	2590	2660
10	1870	1820	1850	2540	2380	2490	2420	2280	2350	2670	2290	2460
11	1840	1780	1820	2530	2370	2490	2570	2280	2410	2340	2260	2300
12	1790	1720	1750	2580	2290	2470	2650	2370	2540	2570	2340	2460
13	1780	1650	1700	2550	2510	2530	2650	2540	2620	2830	2570	2680
14	1900	1710	1820	2550	2490	2520	2650	2550	2610	2910	2590	2750
15	1960	1870	1920	2600	2500	2550	2640	2560	2620	3060	2660	2770
16	1970	1930	1950	2670	2510	2560	2720	2570	2670	2860	2540	2640
17	2020	1960	1990	2770	2560	2640	2770	2640	2730	2690	2530	2620
18	2020	1980	2000	2780	2570	2660	2830	2700	2790	2740	2500	2650
19	2100	2010	2070	2720	2630	2680	2850	2670	2790	2790	2430	2660
20	2120	2090	2100	2730	2630	2680	2840	2600	2760	2820	2650	2740
21	2110	2050	2070	2700	2620	2650	2910	2650	2800	3140	2670	2790
22	2130	2030	2050	2670	2540	2610	2920	2670	2800	3200	2700	2910
23	2060	2020	2050	2660	2510	2570	2790	2660	2720	3040	2740	2860
24	2060	1990	2020	2680	2520	2590	2720	2640	2700	2970	2490	2680
25	2060	1960	2030	2630	2550	2600	2810	2650	2750	2880	2310	2540
26	2090	2010	2050	2620	2560	2580	3050	2680	2810	2960	2290	2580
27	2060	1970	2030	2580	2520	2550	3060	2760	2970	2840	2160	2520
28	2020	1970	2000	2550	2510	2520	3010	2670	2900	2970	2480	2760
29	2150	2100	2110	2530	2480	2510	2870	2690	2820	2940	2440	2730
30	2150	2090	2130	2590	2490	2530	---	---	---	2910	2590	2750
31	2170	2090	2120	---	---	---	---	---	---	2820	2670	2740
MONTH	2170	1550	1900	2780	2090	2460	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	3150	2720	2870	3630	2850	3120	2970	2850	2910	2450	1610	2030
2	3070	2820	2960	3210	2810	3070	3000	2810	2900	2220	1790	2030
3	3000	2890	2940	3210	2920	3060	2970	2760	2850	2270	1980	2190
4	2990	2890	2930	3100	2860	2940	3370	2920	3100	2280	1980	2170
5	3070	2910	2990	2930	2810	2880	3010	2920	2980	2350	1960	2130
6	3020	2880	2960	2970	2760	2870	2950	2770	2870	2030	1860	1910
7	3060	2920	2990	2960	2690	2860	2830	2660	2760	2140	1910	2000
8	3170	2920	3020	3210	2750	2940	2940	2590	2740	2030	1810	1870
9	3270	3090	3190	2840	2650	2760	3030	2910	2970	1860	1710	1770
10	3360	3090	3240	2730	2590	2660	3050	2900	2990	1820	1730	1760
11	3320	2890	3100	2790	2680	2740	3200	2910	2980	1900	1670	1750
12	3200	2820	3030	2780	2640	2700	3030	2870	2950	1770	1630	1680
13	3220	2780	3000	2760	2670	2700	3210	2850	3000	1730	1630	1660
14	3070	2800	2930	2770	2670	2710	3290	3090	3210	1650	1470	1550
15	2870	2730	2800	2750	2630	2680	3210	2970	3120	1510	1430	1470
16	3340	2820	2950	2770	2660	2710	3140	3030	3080	1440	1400	1430
17	3130	2890	2980	2920	2650	2750	3200	2720	2990	1460	1420	1440
18	3070	2910	3010	2700	2610	2660	2760	2550	2660	1460	1350	1410
19	3100	2870	3010	2760	2600	2710	2670	2470	2570	1390	1250	1310
20	3130	2860	2960	2770	2650	2710	2770	2570	2650	1440	1370	1410
21	3030	2810	2900	2740	2660	2700	2680	2310	2570	1440	1370	1390
22	3100	2890	2970	2780	2620	2700	2310	1880	1990	1400	1320	1360
23	3040	2720	2890	2740	2620	2680	2120	1930	2020	1350	1270	1300
24	3000	2740	2860	2790	2650	2710	2450	2000	2280	1350	1260	1300
25	2950	2790	2890	2770	2630	2700	2530	2380	2470	1370	1330	1350
26	3180	2910	3010	2790	2660	2730	2450	2300	2360	1370	1300	1340
27	3350	2950	3150	2800	2690	2740	2460	2360	2420	1360	1280	1330
28	3580	2960	3170	2960	2730	2880	2470	2400	2430	1290	1260	1280
29	---	---	---	2960	2760	2870	2640	2470	2550	1280	1200	1230
30	---	---	---	3020	2900	2970	2620	2450	2520	1250	1190	1220
31	---	---	---	2990	2860	2890	---	---	---	1230	1160	1190
MONTH	3580	2720	2990	3630	2590	2800	3370	1880	2730	2450	1160	1590

09371520 McELMO CREEK ABOVE TRAIL CANYON, NEAR CORTEZ, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	1200	1180	1190	1230	1160	1200	1720	1200	1420	1310	1280	1300
2	1250	1190	1220	1230	1170	1200	1370	1250	1290	1350	1240	1300
3	1220	1150	1170	1230	1170	1190	1270	1220	1240	1330	1250	1300
4	1180	1150	1160	1210	1170	1190	1370	1220	1290	1270	1240	1250
5	1220	1150	1170	1220	1170	1190	1340	1230	1250	1260	1220	1240
6	1300	1220	1270	1260	1190	1220	1290	1250	1280	1230	1200	1210
7	1250	1210	1220	1260	1200	1220	1310	1270	1290	1240	1210	1220
8	1310	1230	1250	1270	1180	1210	1300	1260	1280	1220	1190	1200
9	1330	1290	1310	1240	1210	1230	1310	1250	1270	1220	1180	1200
10	1320	1260	1280	1230	1170	1200	1320	1250	1280	1240	1210	1230
11	1330	1240	1270	1240	1080	1150	1340	1250	1290	1250	1220	1240
12	1390	1300	1340	1230	1190	1210	1350	1310	1320	1290	1210	1250
13	1300	1220	1250	1230	1180	1200	1350	1180	1290	1310	1260	1280
14	1230	1160	1200	1230	1180	1200	1330	1210	1280	1290	1250	1260
15	1180	1140	1160	1240	1190	1210	1320	1300	1310	1270	1250	1260
16	1200	1110	1150	1240	1200	1210	1310	1270	1290	1360	1200	1280
17	1180	1130	1140	1230	1150	1200	1300	1250	1270	1650	1350	1450
18	1190	1110	1140	1240	1210	1220	1280	1250	1270	1460	1400	1420
19	1270	1190	1220	1230	1190	1210	1280	1240	1260	1470	1410	1430
20	1290	1210	1230	1230	1180	1210	1280	1200	1240	1480	1420	1450
21	1300	1240	1280	1250	1180	1220	1280	1200	1230	1480	1430	1460
22	1290	1230	1250	1380	1230	1280	1300	1260	1270	1460	1400	1430
23	1330	1260	1290	1340	1220	1270	1320	1300	1310	1410	1370	1390
24	1340	1280	1310	1260	1170	1220	1320	1270	1300	1420	1370	1390
25	1320	1210	1250	1240	1130	1200	1310	1270	1290	1490	1270	1390
26	1260	1220	1240	1170	1100	1130	1300	1240	1260	1430	1370	1400
27	1240	1180	1210	1240	1040	1150	1250	1190	1220	1430	1400	1410
28	1300	1220	1280	1140	1070	1100	1230	1190	1210	1400	1350	1370
29	1300	1260	1280	1220	1110	1160	1240	1160	1190	1390	1320	1360
30	1280	1190	1210	1240	1070	1160	1230	1180	1210	1450	1330	1370
31	---	---	---	1220	1180	1200	1290	1200	1240	---	---	---
MONTH	1390	1110	1230	1380	1040	1200	1720	1160	1270	1650	1180	1320

TEMPERATURE, WATER (DEG.C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.6	12.6	14.7	8.4	5.8	6.9	5.0	2.7	3.5	---	---	---
2	17.2	14.0	15.5	7.1	3.9	5.4	4.5	2.0	3.1	---	---	---
3	17.5	14.4	15.7	6.3	2.7	4.7	3.5	.8	2.3	---	---	---
4	16.5	12.4	14.5	6.9	3.0	5.0	1.3	-.3	.1	---	---	---
5	16.5	11.8	14.2	7.4	3.6	5.4	-.1	-.2	-.2	---	---	---
6	16.4	12.1	14.2	7.4	3.4	5.4	-.1	-.2	-.2	---	---	---
7	14.0	11.5	12.7	7.2	3.4	5.3	2.0	-.2	.7	-.1	-.1	-.1
8	12.2	10.6	11.4	7.4	3.7	5.5	2.9	1.1	2.1	-.1	-.1	-.1
9	12.8	8.6	10.7	7.2	5.6	6.2	1.9	.2	1.0	-.1	-.1	-.1
10	14.7	10.0	12.3	6.5	4.9	5.7	.7	-.3	.0	-.1	-.1	-.1
11	13.3	10.9	12.2	7.4	5.2	6.1	-.1	-.2	-.2	-.1	-.1	-.1
12	10.9	8.0	9.4	5.9	4.8	5.5	-.1	-.2	-.2	.0	-.1	-.1
13	9.4	5.7	7.6	5.8	4.8	5.4	-.2	-.2	-.2	-.1	-.2	-.1
14	10.3	5.6	8.0	5.9	3.6	4.9	-.2	-.2	-.2	.0	-.1	-.1
15	11.2	6.4	8.8	3.6	.9	2.3	-.2	-.2	-.2	-.1	-.1	-.1
16	11.7	7.3	9.5	2.8	-.2	1.1	-.2	-.2	-.2	.0	-.1	-.1
17	11.8	7.5	9.6	2.3	-.3	.8	-.2	-.2	-.2	.2	-.1	-.1
18	11.7	7.3	9.5	2.5	-.3	1.0	-.2	-.2	-.2	.5	-.1	.0
19	11.6	7.2	9.4	4.2	.8	2.6	-.1	-.2	-.2	.9	-.1	.2
20	11.5	7.2	9.2	5.5	2.4	3.8	-.1	-.2	-.2	1.8	-.2	.4
21	10.8	6.7	8.8	3.4	1.5	2.4	-.2	-.2	-.2	.3	-.2	-.1
22	9.5	6.9	7.9	2.6	-.3	1.0	-.1	-.2	-.2	.0	-.1	-.1
23	9.4	6.4	7.6	2.4	-.3	.8	-.1	-.2	-.2	.0	-.1	-.1
24	8.0	5.5	6.8	2.8	-.3	1.1	-.1	-.2	-.2	.1	-.1	-.1
25	5.9	4.0	5.0	3.8	.6	2.2	-.2	-.2	-.2	.7	-.1	.0
26	5.9	2.4	4.2	5.3	3.3	4.3	-.2	-.2	-.2	1.2	-.2	.2
27	6.6	2.9	4.7	5.4	4.3	4.9	-.2	-.2	-.2	2.0	-.2	.6
28	7.4	3.6	5.7	4.7	2.4	3.6	-.2	-.2	-.2	2.7	-.2	.7
29	7.7	4.4	5.7	3.5	.6	2.1	-.2	-.2	-.2	2.3	-.2	.8
30	8.3	4.1	6.2	3.7	.0	2.0	---	---	---	3.3	-.2	1.5
31	8.6	4.7	6.7	---	---	---	---	---	---	3.4	.5	1.7
MONTH	17.5	2.4	9.6	8.4	-.3	3.8	---	---	---	---	---	---

09371520 McELMO CREEK ABOVE TRAIL CANYON, NEAR CORTEZ, CO--Continued

TEMPERATURE, WATER (DEG.C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.0	-.2	.9	4.2	-.2	1.3	10.5	4.0	7.3	19.0	9.8	14.3
2	2.1	-.1	1.0	4.4	-.2	1.9	7.6	4.2	6.0	19.7	10.3	14.9
3	4.7	.8	2.7	7.1	.0	3.4	11.5	3.1	7.3	19.8	10.5	15.1
4	4.4	2.8	3.4	6.2	1.9	4.0	12.5	5.2	8.8	18.8	10.1	14.4
5	6.1	2.3	3.7	7.6	3.3	5.5	13.0	5.2	9.0	17.0	11.1	13.9
6	3.9	.9	2.7	6.2	2.6	5.0	12.1	6.0	9.0	15.5	11.9	13.6
7	4.0	1.8	2.7	5.1	1.8	3.0	9.9	6.5	8.1	17.9	11.0	14.2
8	2.5	1.3	1.8	5.8	-.2	2.5	10.5	5.3	7.9	14.9	11.4	13.5
9	3.4	.5	1.8	6.5	-.2	3.0	12.5	4.5	8.4	17.4	11.2	14.2
10	4.2	-.2	1.8	7.2	.3	3.7	15.1	5.4	10.2	18.0	12.0	14.8
11	3.4	-.2	1.4	8.1	1.2	4.8	16.3	7.1	11.5	17.5	11.6	14.5
12	4.6	-.2	1.8	9.6	2.5	6.0	11.1	7.3	8.8	16.9	11.6	14.2
13	3.6	-.2	1.6	9.5	3.0	6.4	12.5	5.4	8.5	17.0	11.8	14.2
14	4.3	.8	2.7	10.1	4.6	7.3	10.3	7.0	8.6	15.1	11.8	13.3
15	3.0	.9	2.0	11.0	4.7	7.8	10.0	5.7	7.6	16.5	9.3	12.7
16	4.1	-.1	1.8	12.7	6.2	9.3	9.4	4.7	6.9	15.7	10.6	13.2
17	4.3	1.1	2.5	11.3	5.5	8.5	9.9	4.9	7.4	18.0	10.6	14.2
18	5.5	.8	3.0	8.7	4.4	6.2	13.8	6.1	9.7	17.9	12.7	15.4
19	5.7	.4	2.9	9.3	2.1	5.6	14.4	5.2	9.9	16.7	13.1	15.1
20	5.8	1.6	3.6	10.1	2.7	6.4	16.1	7.1	11.6	16.4	13.3	15.0
21	5.8	.9	3.3	11.5	3.3	7.5	17.2	7.3	12.2	19.0	13.4	15.8
22	4.0	2.4	3.1	12.8	4.7	8.8	17.2	7.8	12.6	17.7	12.1	15.0
23	6.9	2.4	4.4	14.4	6.0	10.1	18.3	9.1	13.7	17.7	11.5	14.7
24	5.6	3.3	4.3	15.5	7.4	11.3	16.2	10.3	13.4	19.0	12.6	15.7
25	4.8	1.8	3.2	15.5	8.3	11.8	14.3	9.2	11.9	19.1	12.5	15.8
26	4.1	-.2	1.6	12.1	8.9	10.4	11.6	7.5	10.0	18.1	13.4	15.8
27	4.1	-.2	1.5	10.1	7.1	8.6	16.9	7.2	11.5	19.2	12.5	15.8
28	3.8	-.2	.9	8.0	5.6	7.1	14.0	7.6	10.9	20.1	13.5	16.8
29	---	---	---	7.3	3.6	5.2	17.5	7.5	12.4	20.1	14.3	17.2
30	---	---	---	7.1	2.3	4.6	18.8	8.8	13.7	19.0	14.7	17.0
31	---	---	---	10.8	3.2	6.7	---	---	---	19.0	13.7	16.5
MONTH	6.9	-.2	2.4	15.5	-.2	6.2	18.8	3.1	9.8	20.1	9.3	14.9
		JUNE			JULY			AUGUST			SEPTEMBER	
1	20.6	14.7	17.7	23.8	16.8	20.2	21.7	18.3	19.9	20.6	17.9	19.2
2	20.9	14.3	17.7	24.6	17.8	21.0	22.0	18.0	20.0	21.3	16.9	19.1
3	19.6	14.8	16.9	25.4	19.7	22.3	22.1	17.3	19.8	21.4	17.2	19.4
4	15.3	12.9	14.0	23.8	20.0	22.1	23.0	17.5	20.2	20.5	17.9	19.2
5	17.8	11.5	14.6	24.2	19.2	21.7	23.1	18.1	20.6	19.6	16.9	18.2
6	18.2	12.7	15.4	25.0	19.7	22.0	23.8	18.2	20.9	20.1	16.4	18.3
7	19.0	13.6	16.0	22.3	19.3	20.6	23.0	17.5	20.4	20.4	16.0	18.2
8	16.9	11.8	14.6	22.4	17.3	19.7	23.0	18.0	20.4	19.7	16.9	18.3
9	18.9	12.5	15.6	20.9	19.1	20.1	21.0	18.7	20.0	19.3	16.0	17.7
10	16.5	12.8	14.7	23.8	18.5	21.0	21.0	18.2	19.3	19.4	16.9	18.1
11	16.1	12.1	14.3	23.6	19.2	21.5	22.1	17.8	19.7	19.9	16.9	18.4
12	19.8	12.3	16.0	24.3	18.5	21.3	22.4	17.2	19.8	20.8	17.5	18.9
13	19.2	14.2	16.6	23.6	18.3	21.0	21.6	17.6	19.3	20.4	16.8	18.6
14	18.4	13.2	15.9	24.5	18.0	21.2	22.3	16.5	19.2	19.9	15.6	17.8
15	19.1	13.0	15.9	24.1	17.7	20.9	23.2	17.8	20.4	19.8	15.5	17.7
16	18.6	13.6	16.0	25.2	18.8	21.8	21.5	17.5	19.7	18.9	15.6	17.5
17	18.9	13.6	16.0	25.4	19.0	22.2	21.7	17.3	19.4	18.8	14.6	16.7
18	19.3	12.2	15.7	25.9	19.5	22.5	21.3	18.7	20.0	18.3	14.6	16.6
19	20.7	13.2	16.9	24.0	19.3	21.4	22.0	16.8	19.4	18.7	14.5	16.5
20	19.3	14.3	17.1	23.0	18.0	20.6	23.1	17.7	20.1	17.8	13.1	15.5
21	21.7	14.9	18.1	24.7	18.6	21.4	21.5	19.0	20.2	17.0	12.6	14.8
22	21.3	14.6	17.9	25.2	19.5	22.2	22.9	17.9	20.2	14.7	11.5	13.3
23	21.6	14.9	17.9	25.2	20.3	22.6	22.4	18.0	20.3	17.1	12.6	14.6
24	21.3	13.9	17.5	22.2	19.6	21.0	21.6	18.8	20.2	17.4	12.6	15.0
25	21.0	14.2	17.6	23.8	19.5	21.5	20.7	18.2	19.6	16.6	12.3	14.5
26	21.9	14.8	18.3	22.4	19.8	21.2	22.1	18.5	20.1	16.0	11.5	13.8
27	22.6	15.6	19.0	21.6	19.2	20.4	22.7	18.1	20.2	15.8	10.7	13.3
28	23.4	16.0	19.7	22.3	18.7	20.4	22.0	16.5	19.2	15.3	11.5	13.5
29	24.0	16.8	20.4	22.9	18.7	20.8	22.0	16.9	19.4	17.1	12.4	14.7
30	23.9	16.9	20.4	22.5	19.1	21.0	22.6	16.8	19.7	17.3	14.1	15.6
31	---	---	---	23.2	19.4	21.0	20.9	18.2	19.6	---	---	---
MONTH	24.0	11.5	16.8	25.9	16.8	21.2	23.8	16.5	19.9	21.4	10.7	16.8

09372000 McELMO CREEK NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 37°19'27", long 109°00'54", in NE¼ sec.2, T.35 N., R.20 W., Montezuma County, 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.

DRAINAGE AREA.--346 mi^2.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1925: 1951-52 (M), 1957 (M). WRD CO-1972: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,890 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of about 1,780 acres upstream from station. One diversion upstream from station for irrigation of about 60 acres downstream from station. Part of flow is return water from irrigated lands of Montezuma Irrigation District (water imported from Dolores River basin).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	64	35	36	31	29	43	15	88	52	146	70
2	110	60	35	36	31	30	39	20	87	44	165	84
3	109	58	35	35	31	33	39	12	84	48	130	95
4	116	59	33	46	34	35	44	9.5	89	44	112	100
5	113	60	27	50	37	37	42	19	102	52	100	108
6	105	59	28	42	38	39	35	31	83	63	96	116
7	136	57	41	28	36	73	33	48	85	73	88	122
8	140	57	40	30	39	54	34	58	87	95	79	111
9	135	64	50	31	40	45	32	74	77	95	76	109
10	116	104	41	40	37	43	28	79	73	116	74	102
11	107	81	31	39	35	41	27	71	78	115	76	105
12	104	98	22	37	35	41	26	57	77	89	82	112
13	103	89	31	35	33	41	29	58	74	78	75	131
14	100	71	31	33	34	39	30	69	85	73	101	122
15	94	61	31	25	42	39	28	72	87	68	94	108
16	90	51	30	40	39	39	28	74	92	59	89	100
17	86	45	30	36	37	39	32	70	91	53	84	90
18	82	46	33	34	37	41	41	66	85	57	79	87
19	77	45	35	37	37	47	42	66	83	62	75	78
20	72	44	31	41	37	40	38	63	78	67	73	73
21	73	43	31	31	37	35	36	76	78	69	83	68
22	74	41	33	26	37	32	34	90	77	77	105	72
23	74	39	33	30	37	31	33	94	65	81	92	80
24	76	37	31	30	49	31	31	97	57	115	83	84
25	98	36	32	34	51	30	24	99	56	130	83	83
26	94	37	22	35	43	30	24	93	61	122	83	86
27	91	37	23	38	37	32	24	88	63	182	82	81
28	88	42	e28	35	31	40	21	90	67	174	79	84
29	74	41	e30	34	---	50	18	95	56	190	70	85
30	69	38	e32	38	---	56	15	91	49	149	71	92
31	65	---	e33	36	---	47	---	89	---	124	72	---
TOTAL	2983	1664	998	1098	1042	1239	950	2033.5	2314	2816	2797	2838
MEAN	96.2	55.5	32.2	35.4	37.2	40.0	31.7	65.6	77.1	90.8	90.2	94.6
MAX	140	104	50	50	51	73	44	99	102	190	165	131
MIN	65	36	22	25	31	29	15	9.5	49	44	70	68
AC-FT	5920	3300	1980	2180	2070	2460	1880	4030	4590	5590	5550	5630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1998, BY WATER YEAR (WY)

MEAN	58.4	50.0	39.6	33.8	49.4	59.9	41.9	48.1	56.2	53.4	64.6	60.7
MAX	161	122	95.4	68.4	192	197	148	108	105	132	160	226
(WY)	1973	1988	1966	1969	1993	1973	1973	1992	1969	1957	1967	1986
MIN	1.84	14.0	13.5	16.1	17.9	15.7	2.23	6.79	2.60	1.19	2.69	.43
(WY)	1957	1957	1978	1978	1964	1951	1977	1977	1977	1951	1972	1956

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1951 - 1998	
ANNUAL TOTAL	29294		22772.5			
ANNUAL MEAN	80.3		62.4		51.8	
HIGHEST ANNUAL MEAN					94.6	1973
LOWEST ANNUAL MEAN					16.2	1977
HIGHEST DAILY MEAN	466	Sep 21	190	Jul 29	1200	Aug 7 1967
LOWEST DAILY MEAN	16	May 7	9.5	May 4	a.08	Sep 9 1977
ANNUAL SEVEN-DAY MINIMUM	21	May 2	16	Apr 29	.14	Sep 21 1956
INSTANTANEOUS PEAK FLOW			297	Oct 7	b3040	Aug 7 1967
INSTANTANEOUS PEAK STAGE			4.58	Oct 7	c,d7.58	Aug 7 1967
ANNUAL RUNOFF (AC-FT)	58100		45170		37540	
10 PERCENT EXCEEDS	134		104		97	
50 PERCENT EXCEEDS	67		57		39	
90 PERCENT EXCEEDS	33		30		13	

e-Estimated.
a-Also occurred Sep 10, 1977.
b-From rating curve extended above 2100 ft^3/s.
c-From floodmark in gage well.
d-Maximum gage height, 8.21 ft, Sep 21, 1997.

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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)	pH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	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)
OCT										
29...	1255	74	2040	8.4	7.9	8.5	1100	240	120	100
DEC										
18...	1105	23	2860	8.4	7.7	0.0	1600	330	190	180
JAN										
20...	1005	41	2720	8.4	7.8	1.0	1400	290	170	170
MAR										
12...	1115	39	2720	8.5	7.9	7.0	1500	290	180	170
APR										
29...	1230	20	2470	8.5	8.1	15.5	1300	260	150	150
JUN										
23...	0930	71	1500	8.4	8.1	16.5	730	160	78	70
JUL										
14...	0930	79	1450	--	8.1	20.0	710	160	73	64
AUG										
11...	1000	81	1510	--	8.2	19.5	700	160	74	67
25...	1300	82	1500	--	8.1	20.5	750	170	80	70

DATE	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, 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										
29...	1	4.4	248	980	25	0.4	9.7	1630	2.22	326
DEC										
18...	2	4.2	289	1500	34	0.4	11	2470	3.36	153
JAN										
20...	2	4.3	293	1500	35	0.4	9.5	2310	3.14	256
MAR										
12...	2	4.7	186	1400	34	0.3	5.7	2240	3.04	235
APR										
29...	2	5.4	247	1200	31	0.4	6.5	1990	2.71	108
JUN										
23...	1	4.2	257	600	14	0.4	12	1100	1.49	211
JUL										
14...	1	4.3	247	560	14	0.4	13	1040	1.42	222
AUG										
11...	1	3.8	265	600	13	0.4	12	1080	1.47	237
25...	1	4.6	258	610	14	0.4	13	1110	1.51	246

TRANSMOUNTAIN DIVERSIONS FROM COLORADO RIVER BASIN IN COLORADO

There are 24 tunnels or ditches, all of which are equipped with water-stage recorders and Parshall flumes or sharp-crested weirs. Records provided by Colorado Division of Water Resources. The locations and diversions of 7 selected diversions are given in the following list.

TO PLATTE RIVER BASIN

09013000 Alva B. Adams Tunnel diverts water from Grand Lake and Shadow Mountain Lake in NW¼ sec.9, T.3 N., R.75 W., in Colorado River basin, to Lake Estes (Big Thompson River) in sec.30, T.5 N., R.72 W., in Platte River basin. For daily discharge, see elsewhere in this report.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09013000	8,870	15,000	27,230	26,570	15,360	1,850	776	4,850	16,920	32,070	33,370	20,910

Water year 1998, 203,800

09050590 Harold D. Roberts Tunnel diverts water from Dillon Reservoir (Blue River) in sec.18, T.5 S., R.77 W., in Blue River basin, to North Fork South Platte River (tributary to South Platte, River) in SW¼SW¼ sec.4, T.7 S., R.74 W., in Platte River basin. Figures include a small amount of ground-water inflow between Dillon Reservoir and east portal of tunnel.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09050590	5,420	0	0	0	0	63	0	0	5,590	18,300	686	478

Water year 1998, 30,540

TO ARKANSAS RIVER BASIN

09042000 Hoosier Pass Tunnel diverts water from tributaries of Blue River in Colorado River basin to Montgomery Reservoir (Middle Fork South Platte River) in sec.14, T.8 S., R.78 W., in Platte River basin; this water is again diverted to South Catamount Creek (tributary to Catamount Creek) in SE¼ sec.14, T.13 S., R.69 W., in the Arkansas River basin. Collection conduits extending from the right bank of Crystal Creek (tributary to Spruce Creek) in sec.14, T.7 S., R.78 W., right bank of Spruce Creek in sec.23, T.7 S., R.78 W., right bank of McCullough Gulch in sec.26, T.7 S., R.78 W., right bank of Monte Cristo Creek in SW¼NE¼ sec.2, T.8 S., R.78 W., left bank of Bemrose Creek in SW¼SW¼ sec.6, T.8 S., R.77 W., and intercepting intermediate tributaries, transport diversions to north portal of the tunnel.

REVISIONS (WATER YEARS).--WDR CO-86-1, WDR CO-86-2: 1984, 1985.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09042000	1,400	0	0	0	0	0	0	726	1,620	3,740	852	2,010

Water year 1998, 10,350

09063700 Homestake Tunnel diverts water from Homestake Lake (Middle Fork Homestake Creek), in sec.17, T.8 S., R.81 W., in Eagle River basin, to Lake Fork in sec.9, T.9 S., R.81 W., in Arkansas River basin. Water is imported to Homestake Lake from tributaries of Homestake Creek by collection conduits that extend from right bank of French Creek in sec.28, T.7 S., R.81 W., and left bank of East Fork Homestake Creek in sec.9, T.8 S., R.81 W., and intercept intermediate tributaries.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09063700	417	0	0	0	0	8,260	736	988	6,680	6,870	982	0

Water year 1998, 24,940

TRANSMOUNTAIN DIVERSIONS FROM COLORADO RIVER BASIN IN COLORADO--Continued

TO ARKANSAS RIVER BASIN--Continued

09073000 Twin Lakes Tunnel diverts water from tributaries of Roaring Fork River between headgates (in sec.21, T.11 S., R.83 W., and sec.2, T.11 S., R.83 W.), and west portal of Twin Lakes Tunnel (in sec.24, T.11 S., R.83 W.), in Colorado River basin, to North Fork Lake Creek in sec.22, T.11 S., R.82 W., in Arkansas River basin.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09073000	1270	611	338	101	32	22	13	8,470	19,570	13,310	2,900	804

Water year 1998, 47,450

09077160 Charles H. Boustead Tunnel diverts water from the main stem and tributaries of Fryingpan River (tributary to Roaring Fork River), in Colorado River basin, to Lake Fork in sec.10, T.9 S., R.81 W., in Arkansas River basin. Water is transported to west portal of tunnel (at lat 39°14'44", long 106°31'47"), by a series of collection conduits extending between headgates on right bank of Sawyer Creek at lat 39°15'58", long 106°38'19" and right bank of Fryingpan River at lat 39°14'40", long 106°31'49", and intercepting intermediate tributaries.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09077160	184	184	191	190	185	195	169	3,250	28,180	18,390	2,740	137

Water year 1998, 53,990

09077500 Busk-Ivanhoe Tunnel diverts water from Ivanhoe Lake (Ivanhoe Creek), tributary to Fryingpan River in sec.13, T.9 S., R.82 W., in Roaring Fork River basin, to Busk Creek (tributary to Lake Fork) in sec. 20, T.9 S., R.81 W., in Arkansas River basin.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09077500	5.8	0	0	0	0	0	0	250	1,790	1,650	351	82

Water year 1998, 4,130

TRANSMOUNTAIN DIVERSIONS NO LONGER PUBLISHED

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		TO ARKANSAS RIVER BASIN		TO RIO GRANDE BASIN	
09010000	Grand River Ditch	09061500	Columbine Ditch	09118200	Tarbell Ditch
09012000	Eureka Ditch	09062000	Ewing Ditch	09121000	Tabor Ditch
09021500	Berthoud Pass Ditch	09062500	Wurtz Ditch	09341000	Treasure Pass Ditch
09022500	Moffat Water Tunnel	09115000	Larkspur Ditch	09347000	Don LaFont Ditches 1 & 2
09046000	Boreas Pass Ditch			09348000	Williams Creek Squaw Pass Ditch
09047300	Vidler Tunnel			09351000	Pine River-Weminuche Pass Ditch
				09351500	Weminuche Pass

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 1998

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	1965-98	10-15-97	0.25
					6-24-98	1.38
					7-30-98	0.26
					9-09-98	0.10

*-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 1998 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (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. Drainage area is 0.76 mi^2.	1965-98	6-3-98	1.47	3.90	5-21-89	2.05	29

*-Also a low-flow partial-record station.

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, and 1.2 mi north of Red Mountain No. 2.

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.

EXTREMES FOR CURRENT YEAR.--
AIR TEMPERATURE: Maximum, 29.7°C, Oct. 9; minimum, -23.6°C, Feb. 28, and Mar.1.
PRECIPITATION: Maximum daily, 2.2 inches, Dec. 9.

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.5	1.4	7.0	2.8	-8.3	-3.0	-1.0	-12.1	-6.3	8.1	-8.3	-1.2
2	14.6	3.5	7.6	3.9	-10.9	-4.7	-1.4	-13.3	-8.6	2.5	-3.1	-.4
3	12.8	-.3	5.9	8.8	-7.9	-1.0	-6.4	-16.6	-11.6	1.1	-7.1	-2.7
4	18.1	-.3	8.0	8.5	-4.9	-.2	3.9	-16.2	-8.9	.4	-10.9	-5.9
5	20.9	-.3	8.0	11.0	-5.3	1.2	3.2	-12.1	-5.7	-4.2	-14.1	-8.4
6	---	---	---	11.7	-3.5	2.0	5.7	-9.8	-3.7	-3.1	-17.9	-11.8
7	---	---	---	11.7	-3.8	1.6	-.7	-6.4	-4.4	1.1	-17.9	-11.5
8	20.9	-4.2	7.0	6.4	-3.5	.1	-2.8	-12.5	-7.0	.4	-17.0	-10.2
9	29.7	19.7	24.0	2.5	-5.3	-2.6	-10.1	-13.3	-11.8	.7	-16.2	-8.2
10	26.0	21.3	23.6	.7	-6.8	-3.4	-8.3	-16.2	-12.8	-1.4	-9.4	-6.4
11	22.5	14.6	20.0	1.4	-4.9	-1.9	-9.4	-22.6	-16.1	-.3	-10.5	-6.5
12	16.5	-8.6	-4.8	2.8	-10.1	-4.0	.7	-22.6	-14.0	-1.4	-11.7	-6.5
13	4.2	-15.3	-5.4	-4.2	-7.9	-6.5	5.3	-14.1	-7.7	.0	-11.3	-6.2
14	11.3	-7.9	-.2	-6.8	-15.3	-9.8	8.1	-10.5	-3.0	-4.2	-17.4	-11.1
15	13.5	-4.6	2.2	-5.7	-22.1	-15.8	6.7	-9.8	-4.5	-.7	-15.7	-6.2
16	13.1	-2.4	3.8	-3.1	-18.8	-11.5	3.9	-15.3	-8.6	.4	-9.0	-4.3
17	15.0	-2.4	4.0	.4	-16.6	-10.4	7.1	-10.5	-4.0	-.7	-10.5	-4.0
18	13.5	-2.4	3.5	-.3	-13.3	-7.4	4.2	-7.9	-2.7	6.4	-12.9	-5.0
19	12.8	-3.1	3.4	6.0	-8.6	-1.5	2.8	-10.9	-6.3	1.1	-9.0	-3.5
20	6.7	-2.4	2.0	-.7	-9.0	-4.1	2.5	-11.3	-6.7	-5.7	-17.9	-11.6
21	9.5	-4.2	1.2	-3.1	-15.7	-8.9	-.7	-13.7	-7.6	-3.5	-19.3	-12.4
22	9.9	-4.2	1.4	.7	-17.0	-9.6	.4	-14.1	-7.5	-3.5	-19.3	-12.1
23	6.4	-5.3	-.7	8.8	-12.1	-3.0	-1.4	-13.3	-9.3	-1.0	-17.4	-9.7
24	-1.7	-12.1	-6.5	9.2	-9.8	-2.4	-7.9	-17.4	-12.5	3.5	-11.3	-5.8
25	-8.6	-14.5	-11.0	4.9	-5.7	-.1	-8.3	-20.2	-13.8	-2.1	-13.7	-7.7
26	5.3	-16.2	-7.4	3.5	-2.8	-.6	-6.4	-23.1	-16.0	4.2	-14.5	-6.6
27	7.8	-8.6	-2.3	-.7	-10.5	-4.6	-1.0	-16.6	-11.8	4.9	-11.3	-3.5
28	8.1	-7.5	-1.5	1.4	-12.9	-7.0	-6.4	-21.1	-13.7	7.1	-11.7	-4.9
29	7.8	-6.4	-.5	7.8	-12.9	-5.3	4.2	-12.1	-6.0	5.3	-11.7	-3.8
30	8.1	-4.6	.3	4.6	-9.8	-3.3	3.5	-10.5	-6.0	3.5	-12.1	-5.8
31	8.1	-3.5	3.2	---	---	---	7.4	-10.5	-4.4	-3.1	-16.2	-9.3
MONTH	---	---	---	11.7	-22.1	-4.3	8.1	-23.1	-8.5	8.1	-19.3	-6.9

375546107412000 IRONTON METEOROLOGICAL STATION NEAR OURAY, CO--Continued

TEMPERATURE,AIR (DEG.C) WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.0	-17.0	-9.9	-6.4	-23.6	-15.7	5.7	-10.9	-2.3	11.0	-2.8	3.5
2	.4	-10.5	-5.4	3.5	-19.3	-9.4	-4.6	-8.6	-6.5	14.3	-1.7	5.7
3	6.7	-7.9	-.7	2.8	-6.8	-2.1	6.7	-5.7	-.8	12.8	-1.7	5.5
4	1.4	-6.4	-2.8	1.4	-7.9	-2.0	3.5	-6.4	-1.0	11.0	-2.8	4.8
5	-1.0	-11.7	-5.9	3.5	-10.5	-3.7	5.3	-11.3	-2.5	7.4	-3.1	2.4
6	2.1	-13.3	-4.9	1.1	-7.5	-4.5	1.4	-8.6	-4.0	6.7	-2.4	1.2
7	-1.4	-10.9	-5.0	-7.1	-20.7	-11.0	2.5	-11.7	-5.6	8.8	-4.2	1.1
8	-4.2	-12.5	-7.0	.7	-22.1	-12.1	-1.0	-9.8	-5.7	6.4	-3.8	1.3
9	2.1	-15.7	-7.5	-2.8	-17.9	-11.3	1.8	-12.9	-4.8	11.3	-.7	4.9
10	-3.1	-17.9	-9.6	1.4	-18.8	-9.4	9.5	-7.9	.4	10.6	-1.0	4.8
11	-2.4	-18.3	-10.9	3.2	-13.7	-6.0	11.0	-2.1	4.6	8.8	-2.4	3.7
12	-.3	-15.3	-8.9	6.4	-12.1	-3.9	1.4	-4.6	-2.3	8.8	-1.0	4.8
13	1.1	-14.5	-7.7	7.1	-9.8	-1.6	.4	-6.4	-3.0	10.2	.4	6.6
14	2.8	-13.7	-5.4	4.2	-7.5	-1.5	-1.0	-8.3	-4.5	3.5	-3.5	-.2
15	-1.7	-15.3	-6.0	7.8	-7.5	-.2	-.3	-11.7	-6.4	9.2	-6.8	1.1
16	-3.5	-14.5	-9.0	7.4	-7.5	-1.1	-1.7	-11.7	-7.4	11.7	-3.1	5.2
17	-2.1	-16.2	-8.6	2.1	-8.6	-2.8	-.7	-12.1	-6.0	14.3	.0	7.9
18	-3.8	-12.9	-8.5	-3.8	-15.7	-9.3	.7	-12.1	-5.6	14.6	1.1	8.2
19	-1.7	-14.5	-8.6	1.1	-18.3	-9.3	6.4	-14.1	-3.4	14.6	2.1	7.9
20	1.4	-13.7	-6.9	4.2	-15.7	-5.7	5.3	-6.4	-.7	13.9	3.2	8.2
21	3.9	-15.3	-6.4	6.7	-12.1	-2.6	8.5	-8.3	.2	12.1	.0	6.9
22	1.8	-9.4	-4.5	10.6	-6.4	1.4	14.3	-5.3	3.7	8.8	-2.1	4.0
23	1.1	-6.8	-3.2	11.3	-3.8	3.0	12.8	-2.4	6.0	12.1	-3.1	3.8
24	-.3	-9.0	-3.9	12.1	-3.5	3.8	9.2	-1.7	4.4	10.2	-1.4	3.6
25	-6.8	-13.7	-10.2	9.5	.0	4.9	4.9	-7.1	-1.2	13.9	-2.1	6.4
26	-10.1	-17.0	-14.0	3.2	-3.5	.2	1.8	-7.9	-3.1	12.8	2.5	8.6
27	-12.1	-17.0	-14.9	4.2	-3.8	-1.2	7.8	-9.0	-.1	15.0	-1.4	7.7
28	-10.9	-23.6	-17.3	-1.4	-4.6	-3.8	8.5	-6.0	1.2	17.3	2.5	10.0
29	---	---	---	-4.6	-17.9	-8.9	10.2	-4.9	2.5	16.1	2.1	9.4
30	---	---	---	-4.2	-19.3	-11.4	11.3	-4.2	3.3	15.4	2.5	10.0
31	---	---	---	.0	-10.5	-6.4	---	---	---	18.1	2.1	10.0
MONTH	6.7	-23.6	-7.6	12.1	-23.6	-4.6	14.3	-14.1	-1.7	18.1	-6.8	5.5
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.9	4.2	12.1	23.8	7.8	16.2	17.3	7.4	10.6	14.3	5.3	8.9
2	19.7	3.2	11.5	22.1	6.7	15.1	16.9	3.2	10.8	17.3	4.6	10.2
3	15.0	2.5	9.9	20.9	8.8	13.8	17.7	3.2	10.8	19.7	4.6	11.2
4	6.7	-1.7	2.3	18.9	8.5	13.2	17.7	2.5	10.4	22.9	4.2	13.0
5	9.9	-1.0	3.8	21.3	6.4	13.7	19.7	5.3	11.9	22.1	7.1	13.8
6	12.8	-1.7	6.5	16.9	8.5	11.9	20.5	3.9	11.9	20.5	5.3	12.0
7	12.4	3.2	8.3	14.6	7.8	10.6	22.1	4.9	13.5	19.7	4.6	11.5
8	12.8	-1.4	5.3	18.5	4.9	11.0	21.3	8.5	14.1	18.1	5.7	11.0
9	11.0	-.7	6.1	18.1	9.2	12.6	20.1	6.0	12.7	17.3	7.4	12.0
10	11.0	-1.0	5.2	15.8	7.4	11.2	16.1	5.7	10.3	18.5	6.7	11.7
11	11.3	-1.7	4.5	20.9	5.7	13.2	15.8	4.6	10.6	18.9	7.8	12.2
12	15.0	-.7	8.0	20.9	5.7	13.4	---	---	---	13.5	4.2	8.6
13	11.0	4.2	7.3	21.7	6.7	13.4	---	---	---	15.4	3.9	9.0
14	10.2	2.1	6.0	22.1	6.4	13.8	20.1	3.5	11.3	16.5	1.8	8.2
15	13.9	-2.4	6.4	25.5	6.0	15.3	20.1	4.9	12.3	15.8	3.2	9.0
16	14.3	3.2	10.2	22.9	8.5	15.6	20.1	5.7	12.9	15.8	2.8	7.7
17	10.6	-.3	5.8	25.5	9.5	18.0	19.7	6.4	11.5	18.1	1.8	8.4
18	14.6	-2.8	6.2	26.4	11.7	19.2	17.7	5.7	11.3	18.1	2.8	9.9
19	18.9	.4	10.8	26.4	11.7	18.8	18.9	4.2	11.5	---		---
20	16.5	3.5	10.7	26.9	12.4	17.5	18.9	5.3	12.4	---	---	---
21	18.9	4.2	11.5	24.2	12.1	16.5	16.9	7.4	11.0	---	---	---
22	17.7	1.8	11.0	23.3	12.8	16.8	21.3	5.3	12.2	---	---	---
23	18.1	3.2	10.6	23.8	13.5	17.4	24.2	6.4	14.3	---	---	---
24	18.5	1.1	9.8	19.7	13.5	16.1	19.3	8.5	12.2	---	---	---
25	20.5	3.5	13.0	20.5	11.3	15.0	18.5	6.0	10.8	---	---	---
26	21.3	3.9	13.2	19.7	9.9	14.7	20.1	7.8	12.4	---	---	---
27	21.3	4.6	13.2	20.5	12.1	15.5	18.5	5.3	11.2	---	---	---
28	24.2	4.9	14.9	20.5	12.8	16.0	20.5	3.9	12.1	---	---	---
29	25.1	6.7	16.4	---	---	---	21.3	6.0	13.3	---	---	---
30	24.6	7.1	16.5	18.1	5.3	11.5	22.1	5.7	13.1	---	---	---
31	---	---	---	19.3	7.1	11.9	19.3	6.4	10.4	---	---	---
MONTH	25.1	-2.8	9.2	---	---	---	---	---	---	---	---	---

375546107412000 IRONTON METEOROLOGICAL STATION NEAR OURAY, CO--Continued

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.1	.0	.2	.0	.0	.2	.1	.0	.0	.0	.2	.4
2	.2	.0	.1	.3	.0	.8	.3	.0	.0	.0	.0	.1
3	.1	.0	.2	.3	.0	.3	.6	.0	.0	.2	.0	.2
4	.0	.0	.0	.0	.0	.2	.0	.0	.1	.1	.0	.0
5	.0	.0	.0	.2	.0	.1	.0	.0	.0	.1	.0	.0
6	.0	.0	.0	.1	.0	.6	.1	.4	.0	.1	.0	.0
7	.7	.0	.1	.0	.1	.1	.1	.1	.0	.3	.0	.0
8	.2	.0	.3	.0	.2	1.1	.1	.0	.0	.0	.0	.1
9	.0	.2	2.2	.0	.1	.4	.1	.0	.0	.1	.0	.0
10	.3	.1	.1	.2	.0	.2	.0	.0	.0	.2	.1	.0
11	1.1	.3	.0	.0	.1	.0	.0	.0	.0	.0	.3	.1
12	.9	.1	.0	.2	.0	.0	.1	.0	.0	.0	.0	.6
13	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.3	.1
14	.0	.2	.0	.2	.0	.0	.1	.2	.1	.0	.1	.0
15	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1	.0
16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.2
17	.0	.0	.0	.2	.0	.3	.1	.0	.3	.0	.2	.0
18	.0	.0	.0	.1	.1	.4	.2	.0	.0	.0	.0	.0
19	.0	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	.0
20	.0	.4	.0	.3	.0	.0	.0	.1	.0	.2	.0	.0
21	.0	.1	.0	.0	.0	.0	.0	.1	.0	.3	.6	.0
22	.0	.0	.0	.1	.0	.0	.0	.0	.0	.3	.0	.0
23	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
24	.6	.0	.0	.0	.1	.0	.2	.0	.0	.3	.2	.0
25	.1	.1	.0	.0	.5	.0	.3	.0	.0	.0	.5	.0
26	.0	.5	.0	.2	.0	.6	.1	.0	.0	.1	.1	.0
27	.0	.3	.1	.0	.0	.4	.0	.0	.0	.3	.0	.0
28	.0	.1	.1	.0	.1	1.0	.0	.0	.0	.3	.0	.0
29	.0	.0	.0	.0	---	.2	.0	.0	.0	.0	.0	.2
30	.0	.0	.0	.0	---	.3	.0	.0	.0	.1	.0	.2
31	.0	---	.0	.1	---	.2	---	.0	---	.2	.3	---
TOTAL	4.5	2.5	3.4	3.3	1.4	7.6	2.8	0.9	0.5	3.2	3.0	2.2

WTR YR 1998 TOTAL 35.3

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 accumulated rainfall is good.

EXTREMES FOR PERIOD OF RECORD.--
AIR TEMPERATURE: Maximum recorded, 21.3°C, June 26, 1994, June 29, 1998; 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, 21.3°C, June 29; minimum, -23.6°C, Feb. 28.
PRECIPITATION: Maximum daily, 1.2 inches, Mar. 8.

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	13.5	3.5	7.2	-1.0	-9.0	-5.0	-4.2	-10.9	-7.4	1.8	-6.0	-1.8
2	9.2	3.2	6.8	1.8	-11.7	-5.3	-5.7	-12.9	-9.8	-.3	-3.5	-2.0
3	8.5	.0	3.9	5.7	-6.0	-.9	-10.5	-16.2	-13.0	-2.1	-6.0	-4.3
4	14.6	2.5	7.8	4.6	-4.2	-.4	-2.1	-12.9	-7.9	-4.9	-10.5	-7.2
5	16.1	2.8	8.3	6.7	-3.8	.3	.0	-8.6	-4.9	-7.1	-16.2	-10.4
6	---	2.8	---	8.5	-2.8	.9	.0	-7.5	-4.4	-10.1	-17.0	-14.1
7	7.8	-2.8	3.9	7.1	-3.1	.4	-4.2	-7.9	-6.2	-7.1	-15.7	-11.9
8	-.7	-6.4	-4.5	2.1	-4.2	-1.6	-6.4	-13.7	-9.4	-6.4	-15.7	-9.8
9	8.1	-6.4	1.5	-2.1	-7.1	-4.9	-11.3	-15.7	-14.1	-6.0	-9.8	-7.8
10	10.6	2.8	7.1	-3.8	-7.1	-5.7	-13.3	-17.9	-15.7	-5.3	-9.8	-7.8
11	8.1	-7.1	3.0	-2.1	---	---	-14.5	-22.1	-19.4	-5.3	-10.1	-7.8
12	-7.1	-10.9	-9.4	-2.1	-9.4	-6.7	-5.3	-20.7	-13.6	-3.8	-10.9	-7.3
13	-.7	-15.3	-6.8	-6.8	-10.1	-8.8	-2.8	-10.5	-6.9	-4.9	-11.7	-7.6
14	8.5	-6.0	.3	-8.6	-15.3	-11.5	1.4	-5.7	-3.2	-9.0	-16.6	-13.2
15	8.5	-2.4	1.9	-11.3	-21.6	-16.9	-.7	-12.5	-4.8	-3.5	-9.4	-6.1
16	8.5	-.7	2.8	-7.9	-16.6	-11.5	-1.7	-15.3	-9.2	-3.5	-9.0	-6.9
17	10.2	-.3	3.6	-4.6	-15.7	-11.3	1.1	-5.3	-2.8	-2.8	-8.6	-4.6
18	8.8	-.7	3.2	-4.9	-12.9	-8.6	.7	-7.1	-3.6	-1.4	-10.9	-5.6
19	8.1	-2.4	2.2	1.1	-7.9	-3.2	-3.8	-10.1	-6.9	-1.7	-11.7	-4.9
20	3.2	-2.8	.2	-3.1	-11.3	-6.4	-4.6	-9.8	-7.8	-11.3	-17.0	-14.4
21	4.6	-3.8	-.8	-4.6	-14.9	-10.2	-5.3	-12.5	-8.8	-7.9	-19.7	-13.8
22	6.4	-4.2	-.4	-2.4	-16.2	-8.8	-7.1	-12.9	-9.9	-7.5	-18.8	-11.1
23	2.5	-4.6	-2.3	2.5	-5.3	-1.7	-6.8	-12.5	-10.0	-4.9	-17.4	-10.7
24	-3.8	-14.1	-8.9	3.5	-7.1	-1.6	-10.9	-17.9	-14.6	-1.7	-10.9	-5.8
25	-10.1	-15.3	-12.9	2.1	-3.5	-.6	-11.7	-19.7	-16.0	-7.1	-12.1	-8.4
26	-1.4	-15.3	-8.2	.4	-4.2	-1.9	-9.4	-21.6	-15.6	-.3	-12.1	-6.6
27	3.2	-7.1	-2.9	-2.8	-12.5	-7.5	-6.0	-18.8	-12.3	.7	-9.0	-4.6
28	3.2	-6.0	-2.4	-5.3	-12.1	-9.4	-9.0	-23.1	-15.8	-.7	-9.4	-5.8
29	3.5	-4.2	-1.1	.0	-9.4	-4.7	-2.1	-11.7	-7.4	.0	-9.8	-5.3
30	3.9	-6.4	-.9	.0	-6.8	-3.8	-2.8	-9.0	-6.7	-3.5	-12.5	-8.1
31	3.9	-1.4	1.2	---	---	---	1.8	-8.6	-4.6	-7.1	-16.6	-11.4
MONTH	---	-15.3	---	8.5	---	---	1.8	-23.1	-9.4	1.8	-19.7	-8.0

375852107455200 GOVERNOR BASIN METEOROLOGICAL STATION NEAR TELLURIDE, CO--Continued

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	-4.2	-15.3	-10.5	-10.1	-23.1	-16.3	1.4	-8.3	-4.0	5.7	-1.7	1.9
2	-3.8	-9.8	-6.7	-3.5	-17.9	-10.7	-6.4	-12.5	-8.9	8.5	-.7	3.9
3	1.8	-7.1	-2.3	.0	-7.9	-5.1	2.5	-8.3	-3.3	9.5	-.3	3.8
4	-1.7	-8.6	-5.3	-3.8	-7.5	-5.6	-1.0	-6.0	-3.1	8.1	-1.7	2.9
5	-5.3	-12.1	-8.7	-1.7	-10.1	-5.8	1.8	-10.1	-4.0	4.2	-3.1	.1
6	-1.0	-12.9	-6.3	-5.3	-9.8	-7.1	-4.2	-10.9	-6.5	1.8	-4.9	-2.3
7	-3.8	-9.8	-7.1	-9.0	-19.3	-13.1	-3.8	-10.9	-8.4	3.5	-6.4	-1.4
8	-6.0	-10.1	-7.8	-4.2	-21.6	-12.8	-1.7	-12.1	-8.0	6.0	-3.5	-.5
9	-6.4	-15.7	-10.9	-9.0	-17.4	-13.2	-2.4	-12.1	-7.0	6.4	-1.4	2.5
10	-9.0	-17.0	-13.2	-2.4	-17.9	-10.5	7.1	-9.8	-.6	6.4	.0	3.6
11	-7.5	-17.4	-11.5	1.4	-11.7	-6.3	6.7	-3.1	2.3	4.9	-3.5	1.2
12	-4.6	-17.4	-11.9	1.8	-9.8	-5.1	-2.4	-7.5	-5.4	4.6	-2.1	2.1
13	-1.4	-13.7	-8.3	2.5	-8.6	-3.2	-2.4	-8.3	-5.3	5.7	-2.1	3.2
14	-1.7	-14.9	-7.4	.7	-7.5	-3.8	-2.8	-9.8	-7.0	.0	-6.4	-3.2
15	-3.8	-15.3	-8.0	2.8	-7.1	-2.3	-3.5	-13.3	-8.4	5.7	-8.6	-1.8
16	-7.5	-15.3	-11.9	2.5	-6.8	-3.3	-4.9	-13.3	-10.0	7.8	-2.8	3.7
17	-4.9	-17.4	-10.9	-1.4	-8.3	-4.4	-1.0	-12.9	-8.4	10.6	1.4	6.3
18	-7.1	-14.1	-11.0	-6.0	-16.6	-12.1	-3.8	-12.5	-8.8	9.9	2.8	6.5
19	-6.0	-17.0	-11.7	-2.4	-17.0	-10.3	1.8	-12.9	-5.6	10.2	2.5	6.5
20	-4.6	-13.7	-9.3	2.1	-14.5	-6.4	1.4	-7.9	-3.0	10.2	3.2	6.6
21	-2.1	-14.9	-8.2	2.5	-10.5	-3.5	4.6	-8.6	-1.8	7.8	.4	5.0
22	-3.8	-9.8	-6.8	6.4	-3.8	1.2	8.1	-4.6	1.6	5.7	-2.1	2.0
23	-3.1	-9.0	-5.8	6.4	-2.1	2.3	8.1	-.7	4.6	7.1	-3.5	2.0
24	-2.8	-11.3	-5.7	7.8	-2.8	2.8	4.6	-3.8	1.6	5.7	-.3	1.7
25	-9.8	-17.0	-12.8	5.3	-.7	2.6	2.5	-8.6	-3.5	9.9	-1.4	4.8
26	-12.5	-18.8	-16.5	1.4	-5.3	-1.8	-.7	-8.6	-4.9	9.2	3.2	6.1
27	-15.7	-19.3	-17.7	-.7	-5.7	-3.8	2.8	-8.6	-2.8	11.3	2.5	6.7
28	-14.9	-23.6	-19.2	-4.2	-6.8	-5.7	3.9	-5.7	-1.3	12.4	2.5	7.5
29	---	---	---	-6.8	-18.8	-11.9	6.7	-4.9	.7	12.1	3.2	8.2
30	---	---	---	-7.9	-18.8	-13.8	7.1	-3.1	1.8	11.7	2.8	7.2
31	---	---	---	-2.4	-12.1	-8.6	---	---	---	12.4	1.8	7.6
MONTH	1.8	-23.6	-9.8	7.8	-23.1	-6.4	8.1	-13.3	-3.9	12.4	-8.6	3.4
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.6	4.6	9.7	18.5	8.5	13.7	12.8	6.0	8.8	11.0	3.5	6.8
2	15.4	4.2	10.1	20.1	6.4	13.6	12.4	4.2	8.9	12.8	4.2	8.1
3	12.4	3.2	8.3	16.9	6.7	11.5	13.5	4.2	9.0	16.1	4.9	10.3
4	3.2	-2.1	-.2	14.6	7.1	10.5	12.4	3.2	7.8	17.3	5.7	11.8
5	4.9	-2.4	1.1	16.9	6.7	11.1	14.3	3.2	8.3	17.3	6.4	11.8
6	9.5	-1.4	4.4	13.5	7.1	9.3	16.1	4.9	10.7	15.0	6.0	10.9
7	8.8	.7	6.5	12.1	6.4	8.9	18.9	6.4	12.3	16.1	6.4	11.0
8	6.4	-1.7	2.4	13.9	4.9	8.9	17.7	7.8	12.2	15.4	7.1	10.2
9	7.1	1.1	4.3	13.1	7.8	9.6	15.8	6.7	10.9	13.5	7.8	10.8
10	6.0	1.1	3.9	12.8	6.7	9.0	11.3	5.3	8.6	14.3	6.4	10.2
11	6.4	-.3	3.1	18.1	6.4	11.7	11.7	5.3	8.1	14.6	7.1	9.9
12	11.3	-.3	5.5	16.5	7.4	12.1	15.8	4.9	10.4	11.0	4.2	7.1
13	7.1	-.3	4.3	18.1	7.4	12.4	14.6	4.2	9.5	11.3	3.9	7.3
14	6.7	.0	3.5	17.7	8.1	13.1	16.1	4.2	9.8	10.6	2.1	6.4
15	9.2	-3.5	3.5	20.1	7.8	14.0	16.5	7.1	11.4	12.1	3.5	7.9
16	10.2	3.9	7.6	18.5	8.1	13.5	16.5	6.4	11.5	12.8	4.2	6.5
17	7.8	-1.4	2.6	19.3	7.8	14.0	15.4	6.0	9.9	12.4	3.9	7.5
18	11.0	-3.5	4.2	20.9	8.8	15.0	14.3	5.7	9.5	13.1	4.9	9.0
19	14.6	2.8	9.0	20.9	8.8	14.7	14.3	4.6	9.5	13.1	3.5	8.6
20	12.1	3.5	8.3	19.3	8.8	12.7	16.5	5.7	10.3	12.4	3.2	7.6
21	15.0	3.9	9.0	17.7	8.5	12.2	12.4	6.4	8.9	11.0	3.5	6.5
22	14.3	3.2	9.5	16.1	7.8	11.4	16.1	5.3	10.8	10.2	1.8	6.7
23	13.9	4.2	9.2	15.8	8.5	11.5	18.9	7.8	12.7	12.4	4.9	7.8
24	14.3	5.3	9.0	13.1	6.7	9.7	16.9	6.4	10.7	15.0	2.1	9.3
25	16.5	4.2	11.0	12.1	6.7	9.2	14.6	6.7	8.8	12.4	3.9	9.6
26	16.5	6.4	11.4	11.7	5.7	8.6	14.3	7.1	10.3	11.7	.4	5.9
27	18.1	6.4	12.0	13.1	6.7	9.3	14.6	6.0	9.9	14.3	2.1	7.8
28	20.1	6.7	13.6	12.4	6.4	8.9	16.5	4.6	10.9	12.4	3.5	7.4
29	21.3	9.5	15.4	15.0	6.0	10.2	18.1	7.4	12.0	12.8	3.5	8.1
30	20.5	8.1	15.1	15.4	5.3	10.3	18.5	7.4	12.2	11.7	3.2	6.6
31	---	---	---	15.4	5.7	10.6	16.1	4.6	8.9	---	---	---
MONTH	21.3	-3.5	7.2	20.9	4.9	11.3	18.9	3.2	10.1	17.3	.4	8.5

375852107455200 GOVERNOR BASIN METEOROLOGICAL STATION NEAR TELLURIDE, CO--Continued

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.0	.0	.2	.0	.0	.1	.1	.0	.0	.0	.2	.5
2	.2	.0	.2	.2	.0	.3	.5	.0	.0	.0	.0	.0
3	.4	.0	.3	.1	.0	.0	.6	.0	.0	.1	.0	.1
4	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.3	.0
5	.0	.0	.0	.1	.0	.3	.0	.0	.0	.2	.0	.0
6	.0	.0	.0	.0	.0	.0	.1	.6	.0	.2	.0	.0
7	.4	.0	.3	.1	.2	.0	.3	.2	.0	.2	.0	.0
8	.4	.0	.5	.1	.0	1.2	.2	.2	.0	.1	.0	.0
9	.0	.2	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0
10	.1	.3	.0	.2	.0	.0	.0	.0	.0	.3	.3	.0
11	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1
12	1.1	.2	.0	.1	.3	.0	.3	.0	.0	.0	.0	.9
13	.0	.1	.0	.1	.1	.0	.0	.1	.1	.0	.2	.1
14	.0	.3	.0	.0	.2	.0	.2	.6	.2	.0	.0	.0
15	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
16	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.1
17	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.1
18	.0	.0	.0	.2	.0	.6	.2	.0	.0	.0	.1	.0
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
20	.0	.3	.0	.0	.0	.0	.0	.1	.0	.3	.1	.0
21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
22	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
23	.2	.0	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0
24	.7	.0	.0	.0	.0	.0	.4	.1	.0	.1	.4	.0
25	.1	.1	.0	.3	.2	.0	.6	.0	.0	.3	.6	.0
26	.0	.6	.0	.0	.0	.5	.1	.0	.0	.4	.1	.0
27	.0	.2	.1	.0	.0	.4	.0	.0	.0	.2	.1	.0
28	.0	.1	.1	.0	.0	.6	.0	.0	.0	.3	.0	.0
29	.0	.0	.0	.0	---	.3	.0	.0	.0	.1	.0	.0
30	.1	.0	.0	.0	---	.3	.0	.0	.0	.0	.0	.0
31	.0	---	.0	.0	---	.2	---	.0	---	.3	.5	---
TOTAL	3.9	2.8	1.8	1.7	1.0	4.8	4.4	1.9	0.5	3.4	3.3	1.9

WTR YR 1998 TOTAL 31.4

380102107402200 OURAY METEOROLOGICAL STATION AT OURAY, CO

LOCATION.--Lat 38°01'02", long 107°40'22", in SW¼ sec.31,T.43 N, R.7 W., Ouray County, Hydrologic Unit 14020006, 0.4 mi southwest of post office in Ouray.

PERIOD OF RECORD.--December 1992 to current year.

GAGE.--Weighing-bucket rain gage with satellite telemetry. Elevation of gage is 7,960 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, 31.1°C, June 29, 1998; minimum recorded, -24.1°C, Dec. 17, 18, 1996.
PRECIPITATION: Maximum daily, 2.2 inches, Oct. 3, 1996.

EXTREMES FOR CURRENT YEAR.--
AIR TEMPERATURE: Maximum, 31.1°C, June 29; minimum, -18.3°C, Dec. 12.
PRECIPITATION: Maximum daily, 1.0 inches, Oct. 11.

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.3	8.8	13.8	6.0	-2.8	1.1	1.4	-4.9	-1.3	7.4	-3.1	1.4
2	18.5	7.8	13.3	5.7	-4.9	-.6	-1.4	-7.1	-4.4	7.8	1.1	3.9
3	15.4	4.6	9.3	11.3	-3.1	3.3	-5.3	-10.9	-7.6	3.9	-2.1	.8
4	19.7	3.9	10.9	11.7	1.1	4.7	.7	-9.0	-5.3	1.4	-4.2	-1.7
5	21.7	7.1	13.1	13.1	.7	5.4	4.6	-7.9	-2.9	.0	-8.3	-4.2
6	20.9	7.8	14.7	14.6	1.1	6.5	5.7	-6.0	-1.8	-5.3	-13.3	-8.5
7	15.8	4.6	11.1	14.3	1.1	7.1	3.5	-3.8	-.7	-.3	-13.3	-7.2
8	8.5	-.3	3.3	10.6	1.4	5.0	.7	-7.5	-3.1	1.1	-10.1	-5.8
9	16.5	-1.7	7.1	4.2	-2.8	-.1	-6.8	-9.0	-7.9	1.8	-9.0	-4.3
10	18.5	9.9	13.9	2.5	-4.2	-.8	-8.3	-10.9	-9.4	.4	-4.6	-2.0
11	14.3	-1.7	8.1	6.0	-1.4	2.1	-9.4	-16.2	-12.3	1.8	-6.4	-2.9
12	-1.4	-5.3	-3.6	2.5	-4.9	-1.1	-5.7	-18.3	-12.0	2.5	-4.6	-1.5
13	5.7	-7.9	-1.5	-1.0	-3.8	-2.7	.0	-12.9	-5.8	2.8	-4.6	-1.6
14	11.0	-3.1	2.8	-2.8	-11.7	-6.8	5.3	-4.9	-1.2	-1.7	-10.9	-6.6
15	14.6	.7	6.1	-3.5	-17.0	-11.3	5.3	-4.6	-1.6	-.3	-10.5	-4.3
16	16.5	1.8	8.0	-1.0	-12.9	-6.7	2.1	-9.8	-4.4	2.1	-3.8	-1.1
17	17.7	4.2	9.2	2.5	-9.4	-4.9	6.0	-5.7	-.7	5.7	-3.5	.8
18	17.3	3.9	8.8	2.8	-6.8	-3.2	4.9	-3.1	.8	4.9	-4.6	-.5
19	15.4	3.2	8.4	7.8	-3.8	2.9	2.1	-8.3	-2.6	4.6	-6.0	1.9
20	12.4	3.5	7.1	4.9	-4.9	-.2	1.8	-8.6	-3.7	-2.8	-12.1	-7.8
21	12.4	1.8	6.2	.4	-8.6	-4.1	1.4	-7.1	-3.4	-2.4	-12.1	-8.3
22	13.1	2.8	6.9	.7	-9.4	-4.7	-1.4	-7.9	-5.1	-2.4	-12.9	-8.4
23	11.0	.0	3.8	7.8	-5.3	-.3	-1.4	-9.0	-6.1	.7	-10.5	-5.6
24	1.8	-6.0	-2.3	10.2	-2.1	2.3	-6.4	-11.3	-8.8	6.4	-7.1	-2.1
25	-5.7	-8.6	-6.8	10.2	1.1	5.3	-7.1	-13.3	-10.4	1.1	-5.7	-2.5
26	4.6	-10.1	-4.1	8.1	1.1	3.2	-6.4	-15.7	-11.9	6.7	-6.8	-1.5
27	9.2	-4.6	1.1	2.8	-4.2	-.4	.7	-12.9	-7.7	8.5	-3.1	1.4
28	9.5	-1.7	2.8	-.7	-7.1	-3.6	-4.2	-15.7	-9.1	6.0	-3.8	-.5
29	10.6	-1.0	4.1	2.8	-8.3	-3.0	4.2	-7.1	-2.5	7.1	-4.9	.9
30	11.0	.4	4.5	8.8	-3.1	2.4	4.6	-7.1	-2.0	3.5	-5.7	-.6
31	12.1	2.1	6.8	---	---	---	7.1	-3.5	-.5	-.7	-8.3	-4.9
MONTH	21.7	-10.1	6.0	14.6	-17.0	-.1	7.1	-18.3	-5.0	8.5	-13.3	-2.7

380102107402200 OURAY METEOROLOGICAL STATION AT OURAY, CO--Continued

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.1	-10.9	-5.1	-3.5	-16.2	-9.7	8.8	-5.3	1.0	15.4	4.9	8.8
2	.4	-5.3	-2.0	2.1	-11.3	-4.6	-1.7	-6.0	-3.7	18.1	3.9	10.7
3	9.9	-3.5	3.4	6.0	-2.8	1.5	7.4	-2.4	2.3	18.9	5.7	11.5
4	6.0	-3.1	1.6	3.5	-4.9	.4	8.5	1.8	5.1	16.1	4.9	11.2
5	1.8	-5.3	-1.9	5.3	-9.0	-1.0	7.8	-1.4	3.3	13.5	3.5	8.3
6	3.9	-6.4	-.8	2.1	-4.2	-1.0	2.8	-2.1	.8	9.9	1.4	4.9
7	1.1	-7.1	-1.9	-4.2	-12.5	-7.8	1.1	-4.6	-2.1	11.3	.4	5.7
8	.4	-7.5	-2.6	1.1	-16.2	-8.7	.7	-4.2	-2.2	12.8	2.1	6.1
9	2.5	-8.3	-3.6	-1.4	-10.5	-6.6	4.6	-5.3	-.8	15.4	3.9	9.4
10	-1.4	-10.1	-5.1	3.5	-10.9	-4.1	13.9	-4.2	5.2	16.1	7.4	11.6
11	-1.4	-11.3	-6.7	4.6	-7.1	-1.5	15.8	6.0	10.7	14.6	5.3	9.7
12	-.7	-10.5	-6.2	8.5	-4.2	1.4	7.4	-1.0	1.8	14.6	4.6	10.7
13	2.1	-8.6	-3.8	9.2	-1.4	4.0	5.3	-2.4	1.8	16.1	5.3	12.2
14	4.9	-9.0	-2.5	9.2	-1.4	3.7	2.5	-2.4	.1	8.8	.0	3.8
15	2.8	-7.1	-1.6	10.2	-1.7	3.5	2.8	-4.6	-2.0	14.6	-2.4	5.7
16	-1.7	-7.9	-4.6	8.8	-2.4	3.1	-.3	-6.4	-3.5	16.9	6.0	11.7
17	.4	-7.1	-3.3	6.4	-1.7	2.5	2.5	-5.3	-1.9	20.1	9.9	15.1
18	-1.0	-6.8	-4.3	-.7	-8.6	-6.1	3.5	-5.3	-1.7	20.1	8.8	15.0
19	.4	-8.6	-4.5	1.4	-12.1	-5.4	8.8	-5.7	1.4	19.7	8.8	14.4
20	1.8	-9.0	-3.6	5.7	-8.6	-1.7	8.8	-1.7	3.4	18.9	8.1	14.0
21	4.2	-7.5	-2.3	8.8	-4.9	1.6	12.4	-1.0	5.3	18.1	6.4	13.0
22	3.5	-4.6	-.3	12.8	-.3	5.9	16.9	1.8	8.8	14.6	4.2	9.6
23	---	---	---	13.1	2.5	7.6	17.7	4.9	11.3	16.5	1.4	9.1
24	---	---	---	16.9	3.9	10.4	13.1	.7	9.3	15.0	4.9	8.7
25	-3.5	-9.0	-5.8	13.9	6.0	9.9	7.1	-1.4	2.0	20.1	4.6	12.3
26	-6.8	-11.7	-9.8	8.1	-.3	3.8	3.9	-3.8	.4	19.3	11.7	15.1
27	-8.3	-12.5	-10.7	7.1	-1.0	2.3	12.4	-2.8	4.5	21.7	8.5	14.8
28	-6.8	-17.4	-12.3	3.2	-1.4	.1	11.3	-.3	5.2	22.9	8.5	16.1
29	---	---	---	3.2	-11.3	-5.1	14.3	.7	7.4	22.5	11.3	16.4
30	---	---	---	-1.0	-12.1	-6.8	15.8	2.1	8.5	21.3	9.9	16.3
31	---	---	---	3.5	-6.8	-2.5	---	---	---	22.5	7.8	15.7
MONTH	---	---	---	16.9	-16.2	-.4	17.7	-6.4	2.7	22.9	-2.4	11.2
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.1	8.8	17.1	28.7	16.9	22.5	21.3	12.4	16.6	17.7	9.9	12.8
2	25.1	13.9	19.2	27.3	16.1	22.0	22.1	9.5	15.9	21.3	9.5	14.9
3	20.5	12.4	16.7	23.8	15.0	19.6	22.9	9.9	16.5	25.5	10.6	16.7
4	12.8	4.6	7.8	23.3	14.3	18.1	22.9	8.5	15.7	26.9	14.6	20.2
5	12.1	2.8	7.1	24.6	12.8	18.8	23.3	11.0	16.8	26.0	15.0	19.7
6	18.1	2.8	11.7	21.7	11.7	15.5	25.5	11.3	17.9	24.6	13.1	18.2
7	17.3	10.6	14.2	19.7	11.7	15.3	28.2	13.9	20.2	26.0	12.4	17.5
8	16.1	2.8	10.8	22.5	8.8	14.4	25.1	15.4	20.5	23.3	12.4	16.9
9	16.5	7.4	12.4	21.3	13.5	16.9	24.2	14.3	18.4	22.9	15.4	18.5
10	15.4	6.7	12.0	19.3	12.1	14.8	19.3	11.3	15.6	22.9	14.3	18.0
11	15.4	4.6	10.1	25.5	11.3	17.8	22.5	11.0	15.5	21.7	11.7	15.7
12	20.9	5.7	13.9	26.9	12.4	19.5	25.1	10.2	17.4	19.7	9.2	12.4
13	16.5	6.0	12.5	27.8	14.3	19.9	24.6	11.7	17.4	19.3	9.5	13.9
14	15.8	6.7	10.9	27.3	14.6	21.1	26.4	9.9	17.5	19.3	7.8	12.8
15	18.5	1.1	10.9	30.1	15.0	21.9	25.5	13.1	19.3	20.5	11.0	15.4
16	20.1	9.9	15.8	28.2	16.9	22.3	25.1	14.6	19.5	20.5	11.7	15.0
17	16.1	1.8	9.6	28.7	15.0	22.6	24.2	12.8	17.0	22.1	9.2	14.8
18	19.3	1.1	10.2	29.2	18.1	23.5	22.5	12.4	17.3	24.2	11.3	16.8
19	24.2	7.8	16.5	30.6	15.8	22.4	22.5	12.1	16.9	22.5	9.5	15.6
20	22.5	9.5	16.3	29.7	15.0	21.1	23.3	13.1	18.1	21.3	11.0	15.6
21	22.9	9.5	17.4	27.8	15.4	19.3	20.5	13.5	16.5	19.3	9.5	14.5
22	22.9	9.9	17.6	24.2	13.1	18.2	26.0	12.4	18.6	19.7	9.2	13.3
23	22.9	9.5	17.4	22.9	12.8	17.4	27.3	13.9	20.6	18.9	7.8	12.3
24	24.6	11.3	17.6	18.9	12.4	15.1	24.2	11.7	17.3	23.3	7.4	15.1
25	25.5	11.7	19.2	21.3	11.7	14.5	20.1	11.7	14.8	21.7	9.2	17.3
26	26.4	12.1	20.0	21.3	9.9	14.4	23.8	11.7	16.3	20.1	6.4	13.6
27	26.9	12.1	19.5	21.7	11.3	15.5	22.5	11.7	15.7	23.8	6.4	14.9
28	29.7	13.9	21.5	19.3	11.7	15.2	24.2	10.2	16.8	21.3	10.6	14.5
29	31.1	15.0	23.0	21.7	9.9	15.5	26.0	13.9	19.7	19.7	6.4	12.7
30	30.6	16.5	23.2	23.3	10.2	16.4	26.9	12.8	19.4	20.5	8.1	14.4
31	---	---	---	23.3	12.1	18.0	21.7	11.3	16.3	---	---	---
MONTH	31.1	1.1	15.1	30.6	8.8	18.4	28.2	8.5	17.5	26.9	6.4	15.5

380102107402200 OURAY METEOROLOGICAL STATION AT OURAY, CO--Continued

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.3
2	.0	.0	.1	.1	.0	.0	.9	.0	.0	.0	.0	.0
3	.3	.0	.5	.1	.0	.0	.1	.0	.0	.0	.0	.1
4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
5	.0	.0	.0	.3	.1	.1	.0	.0	.0	.1	.0	.0
6	.0	.0	.0	.1	.0	.6	.0	.2	.0	.1	.0	.0
7	.7	.0	.1	.0	.2	.2	.2	.0	.0	.2	.0	.2
8	.1	.0	.2	.0	.1	.0	.2	.1	.0	.1	.0	.0
9	.0	.3	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0
10	.2	.1	.3	.1	.0	.0	.0	.0	.0	.3	.2	.0
11	1.0	.2	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1
12	.7	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.4
13	.0	.2	.0	.1	.0	.0	.0	.0	.0	.1	.1	.0
14	.0	.3	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1
15	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
16	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0
17	.0	.0	.0	.0	.0	.2	.1	.0	.2	.0	.2	.0
18	.0	.0	.0	.0	.1	.6	.2	.0	.0	.0	.0	.0
19	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0
20	.0	.1	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0
21	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
22	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0
24	.3	.0	.0	.0	.2	.0	.3	.1	.0	.2	.4	.0
25	.2	.0	.0	.0	.1	.0	.5	.0	.0	.2	.3	.0
26	.0	.5	.0	.0	.2	.6	.1	.0	.0	.3	.0	.0
27	.0	.2	.1	.0	.3	.3	.0	.0	.0	.1	.2	.0
28	.0	.1	.0	.0	.0	.6	.0	.0	.0	.3	.0	.0
29	.0	.0	.0	.0	---	.3	.0	.0	.0	.1	.0	.1
30	.0	.0	.0	.1	---	.3	.0	.0	.0	.0	.0	.1
31	.0	---	.0	.0	---	.1	---	.0	---	.1	.3	---
TOTAL	3.5	2.1	1.5	1.4	2.0	3.9	3.2	0.8	0.2	2.8	1.8	1.4

WTR YR 1998 TOTAL 24.6

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 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, 26.9°C, June 26, 1994, July 29, 1995, June 30, 1998; minimum, -29.8°C, Dec. 18, 1996.
PRECIPITATION: Maximum daily, 2.8 inches, Oct. 3, 1996.

EXTREMES FOR CURRENT YEAR.--
AIR TEMPERATURE: Maximum, 26.9°C, June 30; minimum, -23.6°C, Dec. 11 and 12.
PRECIPITATION: Maximum daily, 1.0 inches, Mar. 28.

TEMPERATURE, AIR, (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.4	1.8	7.2	3.2	-6.0	-2.2	-2.1	-9.0	-5.4	4.9	-10.5	-2.7
2	14.6	4.6	8.9	4.6	-9.4	-4.3	-4.6	-9.8	-7.1	4.2	.4	2.5
3	12.4	-.7	5.9	10.2	-7.9	-1.0	-7.1	-16.2	-10.8	2.1	-5.7	-1.1
4	16.9	-2.4	4.9	8.8	-4.2	-.1	1.4	-14.5	-10.9	.0	-8.3	-4.5
5	19.3	-.7	6.6	12.1	-4.6	.4	1.4	-14.9	-8.8	-3.5	-13.3	-7.4
6	18.5	-.3	7.7	12.4	-4.6	.4	.4	-11.7	-7.8	-7.9	-18.8	-12.4
7	13.9	-.3	7.2	12.4	-4.2	.4	.7	-7.9	-3.6	-1.0	-18.8	-12.3
8	3.2	-4.2	-1.1	6.0	-3.8	.3	-2.8	-9.4	-5.5	.7	-17.0	-11.1
9	12.4	-4.9	2.8	.0	-4.6	-2.3	-8.3	-11.7	-10.1	1.8	-13.7	-7.3
10	15.0	7.8	11.0	1.8	-5.3	-2.4	-10.1	-14.1	-11.7	-1.0	-7.1	-3.9
11	11.0	-3.1	6.7	3.2	-3.5	-.5	-8.3	-23.6	-16.2	.7	-10.1	-6.2
12	-3.1	-7.5	-5.8	2.5	-7.9	-3.5	-2.1	-23.6	-16.0	-1.4	-12.5	-5.2
13	4.9	-10.5	-4.5	-3.1	-6.4	-5.1	5.7	-16.2	-10.0	-.3	-12.9	-5.5
14	9.9	-6.0	-.8	-5.3	-14.9	-8.7	3.9	-11.7	-8.0	-3.5	-18.3	-11.0
15	12.4	-3.5	1.1	-6.8	-21.1	-16.3	-1.4	-12.1	-7.5	1.1	-17.4	-7.0
16	13.5	-3.5	1.9	-3.1	-20.2	-12.1	1.8	-17.0	-11.1	.7	-6.0	-2.4
17	15.4	-2.8	2.9	-.7	-15.7	-10.1	3.9	-12.1	-6.2	2.5	-9.4	-1.9
18	13.9	-3.1	2.6	-.3	-12.1	-7.7	5.7	-6.0	-2.1	3.2	-10.1	-5.6
19	12.8	-2.4	2.6	6.0	-7.9	.4	.4	-13.7	-5.9	1.4	-8.6	-2.1
20	8.5	-2.1	2.2	1.1	-7.1	-2.5	1.4	-13.7	-8.9	-4.9	-18.8	-12.0
21	10.2	-2.8	1.1	-2.8	-13.3	-7.5	-.7	-14.5	-7.9	-3.5	-18.8	-13.6
22	10.2	-3.5	1.1	-.3	-15.7	-10.1	-2.1	-12.1	-7.7	-4.2	-20.2	-12.0
23	8.1	-3.8	.1	6.0	-14.1	-5.3	-1.4	-14.5	-10.8	-.3	-16.2	-10.3
24	.4	-9.4	-4.8	7.1	-9.8	-3.9	-9.0	-17.4	-13.5	4.2	-13.3	-6.4
25	-7.5	-12.5	-9.1	6.0	-2.8	2.0	-9.0	-19.3	-14.0	-1.7	-12.9	-8.3
26	2.1	-14.5	-7.6	6.4	-1.7	1.4	-7.5	-22.6	-16.7	4.9	-13.7	-7.5
27	8.1	-8.6	-3.0	-.3	-7.1	-3.5	-2.8	-18.3	-12.0	6.7	-9.0	-1.5
28	7.8	-7.1	-1.8	-3.8	-11.7	-6.9	-7.5	-21.1	-13.1	6.0	-11.7	-5.7
29	8.5	-6.4	-.3	4.9	-12.5	-7.6	1.8	-12.1	-6.7	7.1	-13.3	-5.2
30	8.1	-3.1	.7	3.2	-10.1	-5.7	3.9	-11.3	-6.9	.4	-9.0	-4.3
31	8.8	-1.7	4.3	---	---	---	6.4	-11.3	-6.8	-3.8	-15.7	-8.4
MONTH	19.3	-14.5	1.6	12.4	-21.1	-4.1	6.4	-23.6	-9.3	7.1	-20.2	-6.5

380251107513000 WEST FORK DALLAS CREEK METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

TEMPERATURE, AIR, (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	-18.3	-11.5	-4.9	-23.1	-14.4	6.4	-12.1	-3.5	12.1	-2.1	3.5
2	-1.4	-9.8	-4.9	.7	-18.8	-9.3	-2.4	-8.3	-4.8	15.4	-1.4	5.2
3	7.1	-8.3	-.9	5.3	-7.1	-1.9	4.2	-7.1	-1.2	15.0	-2.1	5.7
4	4.6	-4.6	-1.5	1.1	-7.1	-1.7	6.7	-3.1	1.1	13.5	-2.8	4.7
5	-.7	-9.4	-5.0	3.9	-11.3	-3.2	6.0	-5.7	-.2	10.2	-2.8	3.7
6	2.5	-12.5	-5.4	-1.0	-6.8	-3.8	.0	-4.9	-2.1	7.1	-1.4	1.9
7	-1.7	-12.1	-5.0	-6.8	-17.4	-9.8	-1.7	-7.9	-5.0	8.8	-3.1	2.1
8	-2.4	-12.9	-6.3	-2.4	-23.1	-12.6	1.4	-7.5	-3.9	6.4	-3.1	1.3
9	-2.1	-13.3	-7.5	-2.4	-15.7	-10.8	2.1	-9.4	-3.5	11.3	-1.0	5.6
10	-3.5	-16.6	-8.9	2.5	-17.9	-9.2	10.2	-10.5	.1	12.4	1.4	7.6
11	-2.8	-18.8	-10.9	3.5	-14.9	-6.7	12.1	1.4	6.6	10.6	.4	5.4
12	-2.8	-16.2	-10.4	7.1	-12.9	-4.6	2.5	-3.1	-1.1	11.3	1.8	6.6
13	.7	-15.7	-8.5	7.1	-11.3	-2.7	4.9	-4.2	-.5	13.9	.7	7.9
14	1.1	-15.3	-7.0	5.3	-7.1	-1.5	1.8	-4.6	-2.4	2.8	-2.8	.3
15	-2.1	-13.3	-6.3	7.4	-7.5	-1.1	1.8	-7.9	-4.5	9.9	-5.3	2.2
16	-4.2	-12.1	-7.9	4.9	-8.3	-2.0	-3.1	-10.5	-6.7	13.5	-1.0	8.0
17	-2.1	-10.5	-6.8	4.2	-7.1	-1.1	2.8	-7.9	-4.0	16.5	1.1	10.3
18	-2.8	-11.7	-7.4	-2.8	-12.1	-8.1	1.4	-10.1	-4.9	17.7	2.5	10.9
19	-.7	-15.7	-8.7	.4	-17.0	-8.4	7.4	-12.5	-2.8	15.8	2.8	9.4
20	.4	-15.7	-7.9	3.9	-14.9	-6.3	6.4	-4.2	.2	16.1	5.3	11.2
21	2.5	-14.9	-7.0	7.4	-11.3	-3.1	9.2	-6.0	.8	14.3	4.9	9.7
22	2.5	-10.9	-4.4	11.3	-5.3	1.7	13.1	-5.3	2.6	10.6	.0	6.1
23	3.5	-4.2	-1.0	11.3	-2.8	3.5	14.3	-2.1	6.5	12.8	-3.1	4.8
24	2.5	-7.1	-1.0	13.1	1.4	6.3	10.6	-.7	5.4	9.9	-1.0	3.7
25	-6.8	-13.7	-9.3	11.3	1.8	6.5	2.5	-4.6	-.9	14.6	-2.1	6.0
26	-7.5	-18.3	-13.1	5.3	-2.1	1.1	3.2	-7.5	-2.0	15.4	3.2	10.4
27	-10.1	-16.6	-13.9	2.8	-2.4	-.3	9.5	-6.8	.3	18.1	.7	10.3
28	-9.8	-23.1	-17.1	1.1	-3.5	-1.9	7.1	-4.6	.9	19.7	1.4	10.7
29	---	---	---	-3.5	-15.3	-8.3	11.0	-4.2	2.4	---	---	---
30	---	---	---	-4.9	-17.0	-10.3	12.8	-3.1	3.5	---	---	---
31	---	---	---	.7	-11.3	-6.1	---	---	---	18.9	2.5	12.0
MONTH	7.1	-23.1	-7.3	13.1	-23.1	-4.2	14.3	-12.5	-.8	---	---	---
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.3	9.9	14.5	25.1	7.1	16.4	18.5	7.8	12.6	13.9	6.4	9.0
2	21.7	6.7	14.7	24.6	9.2	16.4	19.3	3.5	11.6	15.8	5.7	9.5
3	17.7	8.1	12.9	22.1	9.2	15.6	18.1	4.2	11.5	19.7	4.2	11.3
4	8.5	1.4	5.4	22.1	8.5	14.6	18.1	2.8	10.1	22.5	6.7	13.8
5	11.3	-1.0	4.7	20.9	7.1	12.6	19.7	3.9	11.0	20.5	6.0	13.3
6	14.3	-2.4	7.2	18.1	8.8	13.0	21.7	5.3	12.7	18.9	4.9	11.7
7	13.9	3.2	9.8	16.1	8.1	11.7	25.1	5.7	14.0	19.3	5.3	11.6
8	13.1	2.1	6.9	17.7	4.6	9.9	21.7	6.7	12.9	18.9	5.7	11.7
9	14.3	.0	8.6	15.0	8.1	11.3	20.9	6.7	13.4	18.1	6.4	12.0
10	12.4	1.1	8.2	17.3	7.4	11.4	16.5	7.1	11.3	20.1	9.5	13.8
11	11.7	.0	6.4	21.7	6.0	12.8	18.5	6.4	11.5	16.9	7.8	11.5
12	16.9	2.5	10.2	23.3	6.7	14.3	20.9	4.2	12.0	15.8	5.3	9.6
13	13.1	4.9	9.2	22.1	7.1	13.7	19.7	5.3	11.6	16.1	4.2	9.2
14	13.5	.7	7.5	22.9	6.7	14.1	21.7	4.2	12.4	14.6	1.8	8.4
15	15.0	-2.8	6.9	25.5	6.4	15.0	23.8	6.0	14.1	16.9	3.5	9.6
16	16.5	8.8	13.1	23.8	7.4	15.1	20.1	8.8	14.8	15.8	3.2	7.7
17	12.8	.4	6.2	24.6	6.7	15.5	18.9	6.4	10.9	17.7	2.5	8.5
18	15.8	-3.1	6.4	26.0	8.1	16.4	18.1	6.4	11.9	19.3	3.2	10.4
19	21.3	.4	11.9	26.0	8.1	16.5	19.3	5.7	11.9	18.5	4.6	11.3
20	18.5	6.7	13.1	26.4	7.8	15.7	20.1	6.4	11.0	18.1	7.8	12.3
21	20.1	4.2	12.1	21.7	8.1	13.2	15.4	8.1	11.4	16.9	6.7	10.9
22	20.9	2.8	12.8	20.1	8.1	13.3	21.7	5.3	12.4	15.4	1.8	9.0
23	19.7	8.5	14.2	18.9	9.5	13.4	23.3	6.4	14.2	13.9	2.8	9.4
24	19.3	10.2	14.3	15.4	8.8	12.4	19.7	9.2	13.1	20.5	2.8	11.2
25	22.9	3.9	15.4	15.8	8.5	11.9	14.6	6.4	10.2	18.9	7.8	13.5
26	23.3	10.2	16.3	18.9	6.0	11.2	17.3	8.8	11.9	16.9	2.1	8.7
27	23.8	7.4	15.2	16.9	7.4	12.1	18.5	6.4	11.3	20.1	-.7	8.6
28	26.0	5.7	15.7	15.4	7.8	11.7	21.3	3.9	11.4	18.1	2.5	8.1
29	26.4	6.7	16.5	20.1	6.4	12.3	21.7	6.0	12.4	---	---	---
30	26.9	7.1	16.8	19.7	6.7	12.3	22.9	5.3	13.1	---	---	---
31	---	---	---	22.1	7.8	14.1	18.5	7.8	10.9	---	---	---
MONTH	26.9	-3.1	11.1	26.4	4.6	13.5	25.1	2.8	12.1	---	---	---

380251107513000 WEST FORK DALLAS CREEK METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.0	.0	.3	.0	.0	.5	.1	.0	.0	.0	.0	.4
2	.3	.0	.3	.0	.0	.6	.2	.0	.0	.0	.0	.0
3	.3	.0	.6	.0	.0	.4	.0	.0	.0	.1	.0	.0
4	.0	.0	.0	.0	.5	.2	.0	.0	.0	.0	.1	.0
5	.0	.0	.0	.2	.2	.0	.0	.0	.0	.3	.0	.0
6	.0	.0	.0	.1	.0	.4	.1	.1	.0	.1	.0	.0
7	.9	.0	.1	.0	.1	.1	.2	.1	.0	.0	.0	.0
8	.1	.0	.2	.0	.2	.6	.0	.0	.0	.6	.0	.1
9	.0	.2	.2	.0	.1	.3	.1	.0	.0	.2	.0	.0
10	.0	.1	.1	.1	.0	.1	.0	.0	.0	.5	.1	.0
11	.1	.2	.3	.0	.1	.0	.0	.0	.0	.0	.0	.2
12	.5	.1	.1	.0	.1	.0	.1	.0	.0	.0	.0	.6
13	.0	.3	.3	.2	.0	.0	.0	.0	.0	.0	.1	.0
14	.0	.2	.2	.1	.1	.0	.1	.2	.0	.0	.0	.0
15	.0	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	.0
16	.0	.0	.1	.0	.2	.0	.3	.0	.0	.0	.0	.0
17	.0	.0	.1	.0	.2	.2	.1	.0	.2	.0	.2	.0
18	.0	.0	.1	.0	.2	.3	.2	.0	.0	.0	.1	.0
19	.0	.0	.0	.4	.5	.1	.0	.0	.0	.0	.0	.0
20	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
23	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	.3	.0	.2	.0	.2	.0	.2	.2	.0	.1	.7	.1
25	.1	.0	.0	.0	.1	.0	.2	.0	.0	.1	.4	.1
26	.0	.2	.0	.0	.2	.3	.2	.0	.0	.0	.0	.1
27	.0	.2	.1	.0	.1	.1	.0	.0	.0	.1	.1	.1
28	.0	.0	.1	.0	.3	1.0	.0	.0	.0	.1	.0	.1
29	.0	.1	.1	.0	---	.4	.0	.0	.0	.0	.0	---
30	.0	.0	.1	.1	---	.2	.0	.0	.0	.0	.0	---
31	.0	---	.1	.0	---	.0	---	.0	---	.1	.2	---
TOTAL	2.7	1.7	3.7	1.3	3.5	5.8	2.3	0.7	0.2	2.4	2.2	---

380324107444500 WHITEHOUSE CREEK METEOROLOGICAL STATION NEAR OURAY, CO

LOCATION.--Lat 38°03'24", long 107°44'45", in NW¼NW¼ 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 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, 27.3°C, June 29, 1998; 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, 27.3°C, June 29; minimum, -23.1°C, Feb. 28.
PRECIPITATION: Maximum daily, 0.9 inches, Oct. 12 and Dec. 3.

TEMPERATURE, AIR, (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.5	3.5	8.6	3.5	-5.7	-1.8	-2.8	-10.1	-5.5	5.3	-8.3	-2.0
2	15.0	5.3	9.5	4.2	-8.6	-3.5	-2.1	-10.9	-7.4	5.7	-1.7	2.4
3	12.8	.4	6.2	11.0	-6.4	-.1	-6.0	-15.7	-10.7	2.5	-5.7	-1.7
4	17.3	-.3	7.0	10.6	-3.5	.9	-.7	-13.7	-10.1	.0	-9.8	-5.6
5	20.1	1.4	8.5	12.1	-3.8	1.6	3.5	-13.3	-7.6	-2.4	-13.7	-8.3
6	19.7	2.5	8.9	13.1	-3.5	1.6	4.2	-10.9	-6.6	-1.4	-16.2	-11.3
7	13.1	.7	7.4	11.3	-3.5	1.6	.4	-7.1	-4.2	-.7	-16.6	-11.5
8	4.9	-3.8	-.3	5.3	-3.5	.4	-1.0	-14.1	-6.6	.7	-15.7	-11.0
9	14.6	-3.8	2.9	1.1	-4.9	-2.6	-9.0	-14.5	-11.4	2.1	-14.5	-9.0
10	14.3	.0	11.0	2.1	-6.8	-2.8	-9.4	-15.3	-12.3	-2.8	-10.5	-6.3
11	12.4	-3.8	6.6	4.6	-3.8	-.9	-8.3	-22.1	-15.8	.4	-10.1	-6.4
12	-3.1	-7.9	-6.1	3.2	-8.6	-3.6	-2.4	-21.1	-13.9	-.7	-11.3	-5.6
13	6.0	-11.7	-3.8	-3.8	-6.8	-5.6	2.8	-13.3	-8.2	1.4	-11.3	-5.8
14	10.6	-5.7	.4	-6.0	-16.6	-9.6	2.1	-9.8	-6.7	-2.4	-16.2	-10.2
15	12.8	-2.8	2.4	-6.0	-20.7	-15.3	1.1	-10.5	-6.7	-1.4	-15.3	-7.3
16	14.3	-2.1	3.6	-3.5	-18.3	-11.4	2.1	-15.3	-9.4	1.1	-6.4	-3.3
17	15.8	-1.4	4.4	1.1	-14.5	-9.0	6.7	-9.8	-4.2	1.8	-9.0	-3.3
18	15.0	-1.7	3.9	2.5	-12.5	-6.9	4.2	-7.5	-3.3	3.5	-10.5	-5.3
19	13.9	-2.1	3.8	8.5	-7.5	-.8	1.4	-12.1	-5.9	1.8	-9.0	-2.8
20	10.2	-1.4	2.4	.4	-7.9	-3.2	2.8	-11.3	-7.7	-3.1	-17.4	-11.4
21	10.6	-2.4	1.2	-2.1	-13.3	-7.6	-.7	-12.9	-7.3	-3.1	-17.9	-12.1
22	11.0	-3.1	1.9	.7	-15.3	-9.2	-1.4	-12.9	-8.1	-4.2	-18.3	-11.3
23	9.5	-3.5	.8	8.5	-11.7	-4.4	-.7	-13.7	-9.5	1.4	-15.7	-8.8
24	.4	-9.4	-4.7	9.5	-8.6	-3.4	-8.6	-16.6	-13.0	5.7	-10.9	-5.3
25	-5.7	-11.7	-9.5	7.8	-4.6	.9	-7.5	-18.8	-13.7	-2.1	-11.7	-7.6
26	2.8	-13.7	-6.1	7.4	-2.1	1.8	-7.9	-20.7	-15.3	5.7	-12.5	-6.2
27	9.2	-7.1	-1.5	.4	-7.5	-3.0	-1.7	-16.2	-11.3	9.2	-9.8	-3.5
28	8.5	-5.7	-.7	-4.9	-10.9	-7.0	-6.4	-20.7	-12.6	6.4	-10.5	-5.4
29	8.5	-4.9	.1	6.7	-10.9	-5.7	2.5	-10.9	-5.5	6.0	-11.3	-4.7
30	8.8	-3.1	1.3	6.0	-8.6	-4.5	4.6	-9.0	-5.5	.4	-8.6	-5.1
31	9.9	-1.4	4.1	---	---	---	6.0	-9.4	-5.0	-4.2	-14.5	-8.8
MONTH	20.1	-13.7	2.4	13.1	-20.7	-3.8	6.7	-22.1	-8.7	9.2	-18.3	-6.6

380324107444500 WHITEHOUSE CREEK METEOROLOGICAL STATION NEAR OURAY, CO--Continued

TEMPERATURE, AIR, (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.8	-15.7	-9.7	-5.3	-21.6	-14.0	8.5	-10.9	-2.5	13.5	-1.4	4.1
2	-1.7	-10.5	-5.5	1.8	-17.0	-7.9	-3.8	-8.3	-5.5	13.9	-.7	6.0
3	9.2	-7.9	-.3	4.6	-6.8	-2.0	4.2	-7.1	-.6	15.0	-.7	6.7
4	2.1	-4.9	-2.2	2.8	-7.9	-1.6	6.4	-4.9	1.2	12.1	-1.7	5.2
5	-2.1	-9.8	-5.3	2.5	-12.1	-4.0	6.0	-9.0	-1.6	11.0	-2.1	3.9
6	3.5	-11.7	-4.5	-.3	-7.1	-3.3	3.2	-7.9	-2.0	6.7	-1.7	1.9
7	-2.8	-11.7	-5.7	-6.4	-17.9	-10.5	.0	-8.3	-5.1	8.5	-3.1	1.6
8	-2.1	-12.1	-5.9	-1.0	-20.2	-10.5	.0	-8.3	-4.8	7.1	-2.4	1.7
9	-.3	-14.1	-7.7	-1.7	-15.7	-10.1	2.1	-10.1	-3.9	11.3	1.1	5.4
10	-1.0	-16.2	-8.9	3.2	-17.0	-8.2	11.7	-9.8	1.4	12.4	-1.7	6.4
11	-1.4	-17.0	-10.4	4.6	-12.9	-5.4	13.1	2.5	7.9	11.3	-.3	5.2
12	-.7	-15.7	-8.9	7.4	-11.3	-3.3	2.8	-4.2	-1.0	11.0	-1.4	5.7
13	2.1	-13.7	-7.2	8.5	-9.4	-1.7	4.9	-7.1	-1.2	12.1	.7	7.9
14	2.5	-14.5	-6.2	6.7	-6.4	-.9	2.1	-4.9	-2.4	4.9	-3.8	.5
15	-.7	-12.9	-6.2	8.5	-6.0	-.2	.7	-8.6	-5.4	10.6	-5.7	2.1
16	-.7	-12.9	-8.0	6.7	-6.8	-.3	-2.4	-10.1	-6.7	13.1	-1.7	6.9
17	-2.8	-11.3	-7.1	3.5	-6.4	-1.4	1.4	-7.9	-4.5	16.5	4.6	10.3
18	-4.2	-12.1	-7.6	-3.1	-12.5	-8.2	1.1	-9.8	-4.6	16.1	3.2	10.4
19	-.7	-14.9	-8.2	2.8	-15.3	-7.6	7.1	-10.9	-2.5	15.8	3.2	10.0
20	1.1	-14.9	-7.5	4.6	-13.7	-5.1	7.1	-5.7	.3	15.4	3.9	10.2
21	4.2	-13.3	-6.6	8.5	-10.1	-2.0	9.2	-6.4	1.2	14.3	2.1	9.8
22	1.1	-10.5	-4.0	11.7	-4.2	2.6	13.5	-5.3	3.4	11.0	-1.0	5.2
23	4.2	-5.3	-1.0	12.8	-2.1	4.2	15.0	-.7	7.0	12.8	-2.4	4.9
24	2.5	-6.8	-1.1	13.1	-1.4	6.5	10.6	-1.0	5.9	10.2	.0	4.2
25	-4.2	-12.9	-9.0	11.0	1.1	6.5	3.5	-5.7	-1.0	16.5	-1.4	6.8
26	-6.0	-15.7	-12.7	5.7	-2.8	1.2	2.8	-7.1	-2.0	15.0	1.8	9.7
27	-9.8	-16.6	-13.7	6.0	-2.8	.2	8.5	-7.1	.5	17.3	.0	9.1
28	-6.4	-23.1	-16.5	3.2	-3.8	-2.0	7.8	-4.2	1.5	18.5	2.5	10.2
29	---	---	---	-3.8	-15.7	-8.1	10.6	-3.5	3.2	18.1	2.8	10.9
30	---	---	---	-2.1	-16.2	-10.1	12.1	-2.4	4.3	18.1	3.2	12.3
31	---	---	---	1.4	-10.9	-5.5	---	---	---	18.9	2.1	10.5
MONTH	9.2	-23.1	-7.1	13.1	-21.6	-3.6	15.0	-10.9	-.6	18.9	-5.7	6.6
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.3	5.3	13.1	25.1	9.2	16.9	18.9	8.5	12.2	13.5	6.7	9.4
2	21.7	3.9	13.8	23.8	8.5	15.8	20.1	6.0	12.2	19.3	5.7	10.6
3	16.9	8.5	12.8	20.5	11.0	14.3	18.5	6.0	11.8	19.7	6.4	11.4
4	8.5	1.1	5.0	17.7	7.8	12.7	17.3	4.6	10.9	22.5	7.1	14.0
5	10.2	-.7	4.0	19.7	7.1	12.4	18.9	6.0	11.8	20.5	8.5	13.6
6	15.0	-1.0	7.3	17.3	8.5	12.7	21.3	6.7	13.4	21.3	7.4	12.9
7	13.5	3.9	9.5	16.5	8.5	11.8	23.8	8.5	14.9	21.3	7.4	12.5
8	13.5	-.7	6.1	17.3	6.0	10.1	22.1	9.5	14.0	16.9	7.4	11.1
9	12.8	.4	7.3	15.8	8.5	11.5	20.1	8.5	12.8	18.9	9.2	13.7
10	11.7	1.4	7.8	16.5	8.5	11.3	16.5	7.1	10.7	19.7	9.2	13.8
11	12.1	-.3	6.1	20.9	7.1	13.2	17.7	7.1	11.9	17.7	8.8	12.0
12	16.1	1.1	9.3	22.5	8.5	14.8	22.1	6.4	12.9	15.0	6.0	9.3
13	12.1	4.6	8.6	23.3	8.8	15.3	20.1	7.4	12.5	17.3	5.3	10.0
14	12.1	2.1	7.3	23.8	9.5	15.9	22.1	6.0	12.6	15.8	3.9	9.1
15	15.0	-1.7	7.1	25.1	8.8	15.9	22.1	7.8	14.5	16.5	5.3	9.6
16	17.3	7.8	12.6	23.8	9.9	16.1	19.3	9.2	13.7	16.5	4.9	8.3
17	12.1	-.3	5.9	26.0	9.2	16.5	16.5	8.5	11.8	19.7	4.2	9.6
18	15.8	-1.7	6.9	26.0	10.6	17.1	16.9	8.5	11.7	19.3	5.3	11.1
19	20.5	2.1	11.6	25.5	10.6	17.3	19.7	6.7	11.7	19.7	5.3	11.1
20	17.3	6.4	11.9	25.5	10.2	16.0	18.5	7.1	11.3	17.7	4.2	10.3
21	20.5	5.3	11.9	22.5	9.5	14.5	15.0	8.5	11.5	16.1	3.2	10.1
22	19.7	3.9	12.7	18.5	9.9	13.1	21.7	6.7	13.0	15.4	2.1	8.4
23	19.3	6.0	13.2	17.7	9.2	12.6	23.3	8.5	14.8	15.0	4.6	9.1
24	19.3	6.0	12.9	14.6	9.2	12.0	19.7	8.8	12.4	20.1	2.8	10.6
25	22.1	5.3	14.9	15.8	8.5	12.0	16.5	6.7	10.0	19.7	6.7	13.7
26	22.1	7.1	15.0	16.1	7.4	11.5	18.5	8.8	12.1	17.7	1.4	8.7
27	24.2	7.4	15.0	16.5	8.5	11.8	20.1	7.4	12.1	20.1	1.8	9.1
28	26.0	7.8	16.0	15.0	8.5	11.4	21.7	5.7	12.6	18.1	5.7	9.2
29	27.3	9.2	17.4	20.5	7.1	13.1	20.5	8.5	13.6	15.8	3.9	8.4
30	26.0	9.2	17.3	19.3	8.5	12.8	24.6	8.5	14.2	17.7	4.2	9.8
31	---	---	---	20.5	9.5	13.3	18.9	8.5	11.6	---	---	---
MONTH	27.3	-1.7	10.7	26.0	6.0	13.7	24.6	4.6	12.5	22.5	1.4	10.7
YEAR	27.3	-23.1	2.2									

380324107444500 WHITEHOUSE CREEK METEOROLOGICAL STATION NEAR OURAY, CO--Continued

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.0	.0	.4	.1	.0	.0	.2	.0	.0	.0	.0	.5
2	.2	.0	.2	.0	.0	.0	.7	.0	.0	.0	.0	.0
3	.3	.0	.9	.0	.0	.0	.1	.0	.0	.1	.0	.1
4	.0	.0	.3	.0	.3	.0	.0	.0	.0	.2	.0	.0
5	.0	.0	.3	.5	.1	.1	.0	.1	.0	.1	.0	.0
6	.0	.0	.3	.1	.0	.7	.0	.2	.0	.1	.0	.0
7	.5	.0	.4	.0	.2	.3	.1	.1	.0	.1	.0	.1
8	.1	.0	.2	.0	.2	.0	.1	.1	.0	.2	.0	.1
9	.0	.4	.1	.0	.0	.0	.0	.0	.0	.2	.2	.0
10	.0	.1	.0	.1	.0	.0	.0	.0	.0	.4	.1	.0
11	.1	.3	.1	.0	.2	.0	.0	.0	.0	.0	.0	.1
12	.9	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.5
13	.1	.3	.2	.1	.0	.0	.0	.0	.0	.0	.1	.0
14	.0	.2	.5	.2	.1	.0	.2	.2	.0	.0	.0	.0
15	.0	.0	.6	.0	.0	.0	.3	.0	.0	.0	.0	.0
16	.0	.0	.5	.0	.0	.0	.2	.0	.0	.0	.0	.4
17	.0	.0	.4	.0	.0	.2	.2	.0	.2	.0	.1	.0
18	.0	.0	.1	.0	.1	.7	.2	.0	.0	.0	.1	.0
19	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0
20	.0	.2	.0	.1	.0	.0	.0	.0	.0	.1	.1	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
24	.3	.0	.1	.0	.3	.0	.1	.1	.0	.1	.3	.0
25	.2	.0	.1	.0	.1	.0	.5	.0	.0	.0	.3	.0
26	.0	.2	.1	.0	.2	.7	.1	.0	.0	.0	.0	.0
27	.0	.3	.1	.0	.5	.3	.0	.0	.0	.2	.1	.0
28	.0	.1	.2	.0	.1	.7	.0	.0	.0	.2	.0	.0
29	.0	.0	.1	.0	---	.5	.0	.0	.0	.0	.0	.2
30	.0	.0	.2	.1	---	.3	.0	.0	.0	.0	.0	.0
31	.0	---	.3	.1	---	.1	---	.0	---	.1	.2	---
TOTAL	2.7	2.2	6.8	1.6	2.6	4.7	3.0	0.8	0.2	2.5	1.7	2.0

WTR YR 1998 TOTAL 30.8

380436107411500 PORTLAND METEOROLOGICAL STATION NEAR OURAY, CO

LOCATION.--Lat 38°04'36", long 107°41'15", in SE¼NW¼ 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, 31.1°C, June 26, 1994; minimum, -23.6°C, Dec. 17, 18, 1996.
PRECIPITATION: Maximum daily, 2.3 inches, Oct. 3, 1996.

EXTREMES FOR CURRENT YEAR.--
AIR TEMPERATURE: Maximum, 30.6°C, June 28, 29, and July 15, 19; minimum, -18.3°C, Dec. 12.
PRECIPITATION: Maximum daily, 0.6 inches, Oct. 7, and Apr. 2.

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.7	9.9	14.6	6.7	-3.1	1.4	1.1	-6.0	-1.8	6.7	-1.4	2.6
2	20.1	7.4	14.0	5.7	-5.3	-.1	-1.7	-6.4	-4.2	9.9	2.5	5.6
3	15.8	6.0	9.7	11.0	-2.1	4.1	-4.2	-10.9	-7.8	5.3	-2.8	.9
4	20.5	5.7	12.2	12.8	2.5	6.2	3.5	-9.4	-3.9	3.2	-3.8	-1.7
5	22.5	9.2	14.6	12.8	2.8	6.4	4.6	-4.9	-1.3	-.7	-8.6	-4.6
6	22.1	10.2	15.5	15.0	3.5	7.8	6.0	-2.4	.4	-5.7	-12.5	-8.3
7	17.3	3.2	11.0	14.6	3.5	8.0	2.1	-4.2	-.7	.0	-13.3	-7.2
8	9.5	-1.4	2.8	10.6	3.2	5.7	1.4	-8.3	-2.9	1.8	-9.0	-4.4
9	17.7	-.7	7.6	3.5	-3.1	-.3	-6.4	-9.4	-7.9	2.1	-6.4	-2.6
10	19.3	9.5	14.7	1.8	-4.2	-1.2	-7.1	-11.7	-9.4	.0	-4.9	-2.5
11	15.0	-1.7	9.2	7.8	-1.7	2.2	-4.9	-15.7	-11.9	3.2	-5.3	-2.4
12	-1.0	-6.0	-3.6	2.8	-4.9	-1.2	-6.0	-18.3	-11.7	3.5	-4.2	-1.2
13	6.4	-8.3	-1.1	-1.4	-4.2	-2.9	1.1	-10.9	-4.7	3.9	-4.6	-1.7
14	12.4	-2.4	4.3	-3.1	-12.1	-7.1	8.8	-3.5	1.1	-2.1	-9.4	-5.9
15	14.6	2.5	7.6	-6.8	-17.4	-11.6	6.4	-5.3	-.3	-1.0	-9.8	-4.0
16	16.5	2.8	9.3	-1.0	-12.1	-6.4	1.8	-8.6	-3.2	2.8	-3.8	-.7
17	18.1	4.9	10.2	1.4	-7.9	-3.8	7.4	-5.7	.2	5.3	-2.1	1.7
18	17.3	5.7	10.4	2.1	-6.4	-2.5	5.7	-2.1	1.6	4.6	-2.4	.4
19	16.1	4.6	9.5	8.5	-2.4	3.4	2.5	-7.5	-2.6	4.9	-6.4	1.4
20	14.6	5.3	8.2	4.6	-4.9	.0	2.1	-7.5	-3.1	-2.8	-10.5	-6.8
21	13.1	2.8	7.3	-.7	-8.3	-4.5	1.4	-6.0	-3.1	-2.1	-10.9	-7.4
22	13.9	3.9	7.7	2.1	-9.0	-4.2	-1.0	-7.1	-4.7	-3.5	-12.1	-7.7
23	11.3	.4	4.7	7.4	-4.2	.8	-1.0	-8.6	-5.9	.0	-8.3	-4.2
24	2.5	-6.8	-2.6	10.2	-.3	3.9	-4.2	-10.9	-8.4	4.2	-5.3	-1.3
25	-4.9	-8.6	-7.0	10.6	1.8	5.4	-7.1	-13.3	-10.4	2.1	-4.6	-1.8
26	2.5	-10.5	-4.1	8.8	.7	3.7	-7.1	-15.7	-11.3	6.0	-4.6	.0
27	8.1	-3.1	2.2	3.5	-5.3	-.6	.7	-11.7	-7.4	8.8	-.7	2.9
28	9.5	-.7	4.1	-2.1	-6.4	-4.0	-1.7	-15.3	-8.6	6.0	-3.1	.6
29	10.6	.4	5.6	4.2	-7.5	-1.8	3.5	-7.1	-1.4	7.8	-3.1	1.5
30	11.7	2.1	6.1	6.4	-1.7	1.3	5.3	-6.4	-.7	5.7	-4.6	-.4
31	12.4	2.8	8.1	---	---	---	6.4	-2.4	1.1	-.3	-7.9	-4.4
MONTH	22.5	-10.5	6.9	15.0	-17.4	.3	8.8	-18.3	-4.4	9.9	-13.3	-2.1

380436107411500 PORTLAND METEOROLOGICAL STATION NEAR OURAY, CO--Continued

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.5	-9.8	-4.4	-2.8	-14.5	-8.3	9.9	-4.6	1.1	16.9	5.7	10.2
2	-.3	-4.2	-2.3	1.4	-9.8	-3.8	-1.4	-6.4	-3.5	19.7	6.0	12.0
3	7.8	-2.8	3.3	7.8	-2.1	2.1	7.4	-2.8	2.1	19.7	7.4	13.2
4	6.0	-2.4	2.2	3.2	-5.3	-.5	9.2	1.1	5.2	18.1	7.4	11.8
5	1.8	-4.2	-1.7	5.7	-9.4	-1.5	8.1	-2.8	2.9	16.5	3.9	8.9
6	3.9	-5.7	-.4	2.1	-4.9	-1.1	3.2	-2.4	.8	12.1	1.8	5.2
7	3.9	-4.6	-1.4	-4.6	-12.9	-8.1	1.4	-5.3	-2.2	13.9	.7	6.8
8	-.3	-5.3	-2.6	-3.1	-15.7	-8.7	3.2	-4.6	-1.9	11.7	1.1	6.5
9	.7	-7.1	-3.5	-1.0	-9.0	-5.6	4.2	-4.2	-.1	15.4	4.6	10.0
10	-1.4	-8.6	-5.1	4.6	-8.6	-2.7	15.0	-1.4	6.4	16.9	5.7	11.7
11	-1.4	-9.8	-6.4	4.9	-6.4	-1.0	16.1	7.1	11.3	15.8	4.9	9.9
12	-.7	-10.5	-5.8	8.8	-3.8	2.2	7.1	-1.7	2.1	16.1	6.0	11.1
13	2.1	-7.1	-3.4	9.9	-.7	4.6	7.8	-2.4	2.2	16.5	4.6	12.4
14	4.6	-7.9	-2.6	11.0	.0	4.9	5.3	-2.4	.5	10.2	.0	3.6
15	2.1	-6.8	-2.6	9.9	-1.0	4.2	2.5	-4.9	-2.6	15.4	-1.0	6.7
16	-1.0	-7.9	-4.7	10.2	-1.4	4.0	1.1	-6.0	-3.4	18.1	6.0	12.6
17	.7	-6.0	-3.3	7.4	-1.0	3.3	3.5	-4.9	-1.9	22.1	8.1	15.1
18	-.3	-6.8	-4.3	-1.0	-9.0	-6.1	2.5	-5.3	-1.8	20.5	12.1	16.1
19	.7	-7.9	-4.0	1.8	-10.5	-4.8	8.8	-3.5	2.3	19.7	12.1	15.3
20	1.8	-7.1	-3.2	5.7	-6.8	-1.0	9.5	-2.1	3.7	19.7	8.8	14.7
21	4.9	-6.8	-1.3	9.2	-2.4	3.2	13.1	.7	6.4	19.3	7.1	13.7
22	4.2	-4.2	.0	13.9	2.5	7.9	17.3	2.5	9.8	16.5	4.6	10.1
23	6.4	-2.1	2.0	15.0	5.7	9.9	19.3	8.5	13.8	16.9	2.1	9.3
24	5.7	-4.9	1.4	16.9	6.7	11.9	15.8	1.8	9.6	13.9	6.0	9.3
25	-2.8	-8.6	-5.9	15.4	7.8	11.1	6.7	-1.7	1.6	18.5	4.9	12.1
26	-6.8	-12.1	-9.9	9.5	-.3	4.0	6.0	-2.8	.9	20.1	11.7	15.5
27	-7.9	-13.7	-10.7	7.4	-1.0	2.5	11.0	-1.4	4.5	22.5	7.1	15.3
28	-6.4	-16.2	-11.6	5.7	-1.7	.5	12.1	-.3	5.3	22.9	9.5	16.6
29	---	---	---	-1.7	-10.1	-5.4	15.0	1.4	8.4	23.3	11.3	17.0
30	---	---	---	-2.1	-11.7	-7.2	16.5	4.2	10.3	22.1	10.2	16.0
31	---	---	---	4.2	-6.8	-2.1	---	---	---	23.3	9.2	16.0
MONTH	7.8	-16.2	-3.3	16.9	-15.7	.3	19.3	-6.4	3.1	23.3	-1.0	11.8
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.5	10.2	17.7	29.2	17.3	22.9	23.3	13.5	17.7	16.5	9.2	12.6
2	26.4	11.3	19.1	28.7	17.3	22.3	25.5	11.3	17.6	22.1	9.5	15.4
3	22.1	10.2	16.2	25.1	15.4	20.1	24.2	10.6	16.9	26.0	12.1	17.3
4	11.0	3.5	7.9	22.9	14.3	18.8	24.2	8.8	16.0	28.2	16.1	20.7
5	15.0	2.1	7.6	24.2	12.8	19.2	24.6	10.6	17.4	26.4	14.6	19.4
6	18.9	4.2	12.1	21.7	11.7	16.5	26.4	12.8	19.3	25.5	12.8	18.2
7	19.7	9.2	14.7	20.1	11.7	15.7	29.2	15.0	21.7	27.3	13.1	18.4
8	18.9	2.8	10.6	21.3	9.2	14.3	27.8	16.1	21.1	25.1	14.6	18.5
9	18.1	8.1	12.8	20.1	12.8	16.4	26.9	15.0	19.0	24.2	15.4	19.2
10	16.1	5.7	11.8	21.3	12.1	15.2	20.5	12.4	16.0	24.6	13.5	18.4
11	15.0	3.9	9.9	26.0	12.4	18.8	23.8	12.1	16.3	21.3	11.7	15.4
12	21.3	6.4	13.9	28.2	13.5	20.7	26.4	11.7	18.3	20.1	10.2	12.5
13	17.3	8.5	12.7	28.7	16.9	21.9	25.5	12.1	17.9	19.7	9.5	14.2
14	17.7	5.3	11.3	30.1	16.1	23.0	26.9	11.7	18.4	20.1	7.8	13.5
15	18.9	.7	10.4	30.6	14.6	22.4	27.3	13.9	19.8	21.7	12.1	16.1
16	22.1	11.7	16.4	29.7	17.3	22.8	26.0	16.1	20.0	21.3	11.3	14.6
17	16.1	1.4	9.4	29.7	15.8	22.9	21.7	13.9	17.2	22.9	10.2	15.9
18	20.5	2.1	11.0	30.1	16.9	23.7	22.5	12.8	17.5	23.3	12.1	17.0
19	25.5	9.2	17.1	30.6	17.7	23.3	25.5	12.8	18.1	22.9	11.0	16.4
20	22.5	12.8	17.2	30.1	17.3	21.9	22.5	16.1	18.8	23.3	11.3	16.4
21	24.6	9.2	17.3	28.2	15.4	20.3	19.3	12.8	16.5	21.7	9.2	15.3
22	25.1	12.1	18.5	25.1	15.8	18.9	28.2	11.3	18.9	19.7	7.4	12.6
23	24.6	11.0	17.8	25.1	12.8	17.1	29.2	15.0	21.5	17.7	8.1	12.1
24	24.2	11.0	17.7	19.3	12.4	15.2	25.5	11.7	17.8	25.1	7.8	15.9
25	26.4	11.0	19.3	21.7	12.1	15.5	21.3	12.1	14.9	22.9	8.5	16.0
26	26.4	11.3	19.4	20.5	11.3	15.0	22.9	12.4	17.3	22.5	7.4	14.0
27	27.3	13.1	20.1	20.5	12.1	15.8	23.3	11.7	17.4	24.2	7.4	14.7
28	30.6	14.3	22.1	20.9	12.1	15.7	25.1	10.2	17.4	21.7	9.9	14.8
29	30.6	16.1	23.5	24.6	11.7	17.5	27.8	15.8	20.8	19.7	7.8	12.5
30	30.1	17.3	23.3	23.8	12.4	17.4	27.8	15.0	20.7	22.5	8.8	15.5
31	---	---	---	25.1	13.9	18.9	22.1	11.7	17.1	---	---	---
MONTH	30.6	.7	15.3	30.6	9.2	19.0	29.2	8.8	18.2	28.2	7.4	15.8
YEAR	30.6	-18.3	6.8									

380436107411500 PORTLAND METEOROLOGICAL STATION NEAR OURAY, CO--Continued

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.4
2	.1	.0	.2	.0	.0	.0	.6	.0	.0	.0	.0	.0
3	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.2
4	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
5	.0	.0	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0
6	.0	.0	.0	.1	.0	.4	.0	.1	.0	.1	.0	.0
7	.6	.0	.0	.0	.1	.1	.0	.0	.0	.1	.0	.1
8	.1	.0	.1	.0	.1	.0	.0	.1	.0	.1	.0	.0
9	.0	.3	.1	.0	.0	.0	.1	.0	.0	.1	.2	.0
10	.0	.1	.4	.0	.0	.0	.0	.0	.0	.2	.2	.0
11	.1	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.1
12	.4	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.4
13	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
14	.0	.2	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0
15	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
16	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
17	.0	.0	.0	.0	.0	.1	.1	.0	.2	.0	.2	.0
18	.0	.0	.0	.0	.1	.4	.1	.0	.0	.0	.0	.0
19	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.1	.0
20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	.3	.0	.0
24	.2	.0	.0	.0	.2	.0	.1	.1	.0	.0	.5	.0
25	.1	.0	.0	.0	.1	.0	.3	.0	.0	.1	.2	.0
26	.0	.1	.0	.0	.1	.5	.1	.0	.0	.2	.1	.0
27	.0	.3	.1	.0	.2	.2	.0	.0	.0	.0	.1	.0
28	.0	.1	.0	.0	.0	.5	.0	.0	.0	.1	.0	.0
29	.0	.0	.0	.0	---	.4	.0	.0	.0	.0	.0	.0
30	.0	.0	.0	.0	---	.3	.0	.0	.0	.1	.0	.1
31	.0	---	.0	.0	---	.1	---	.0	---	.1	.2	---
TOTAL	1.9	1.6	1.5	0.7	1.8	3.1	1.8	0.4	0.2	1.5	1.9	1.3

WTR YR 1998 TOTAL 17.7

380844107512200 PLEASANT VALLEY METEOROLOGICAL STATION NEAR RIDGWAY, CO

LOCATION.--Lat 38°08'44", long 107°51'22", in SE¼SE¼ 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 recorded, 30.6°C, Aug. 13, 1996, and June 29, 30, and July 20, 1998; minimum recorded,-25.7°C, Dec. 18, 1996.
PRECIPITATION: Maximum daily, 1.7 inches, Oct. 3, 1996.

EXTREMES FOR CURRENT YEAR.--
AIR TEMPERATURE: Maximum, 30.6°C, June 29, 30, and July 20; minimum, -20.7°C, Dec. 12.
PRECIPITATION: Maximum daily, 0.7 inches, July 8.

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	22.1	6.0	13.3	7.1	-3.5	1.5	2.8	-5.3	-1.5	8.1	-4.9	1.4
2	20.5	7.1	13.2	7.1	-7.1	-1.1	-.3	-4.6	-2.8	8.8	-1.4	4.6
3	16.1	4.9	10.1	13.1	-6.8	2.6	-2.8	-14.9	-8.1	6.4	-3.1	2.0
4	20.5	1.8	10.7	13.5	-2.8	4.4	3.9	-16.2	-7.8	3.5	-4.6	-1.0
5	22.5	2.8	12.9	14.6	-2.8	4.3	2.8	-11.7	-4.9	1.1	-8.3	-4.0
6	22.1	4.2	13.7	16.1	-2.1	5.3	8.1	-8.3	-1.5	-4.2	-12.9	-7.6
7	18.5	4.6	11.8	15.0	-.7	6.3	3.5	-3.1	-.2	1.1	-17.0	-7.9
8	8.5	-.7	3.7	11.3	-.3	4.7	2.5	-8.6	-2.4	3.9	-12.9	-5.0
9	18.1	-3.5	6.6	4.9	-1.7	1.2	-3.8	-8.6	-6.5	2.5	-9.8	-2.4
10	20.1	5.3	15.1	4.9	-2.8	.1	-5.7	-10.1	-8.2	1.4	-4.9	-1.5
11	16.9	-.3	11.3	7.8	-1.4	2.3	-7.1	-19.3	-12.1	1.8	-4.6	-1.6
12	1.1	-3.8	-1.6	5.7	-4.2	.6	-3.8	-20.7	-13.3	3.2	-5.7	-1.3
13	8.1	-8.3	-.5	.7	-2.8	-1.4	2.5	-16.6	-7.9	4.2	-7.5	-2.3
14	13.9	-4.6	3.5	-1.4	-11.3	-5.6	11.3	-10.1	-2.2	1.8	-12.5	-6.1
15	15.8	-1.7	6.1	-3.5	-18.8	-11.9	4.6	-9.0	-2.4	2.5	-13.7	-4.1
16	18.1	.0	7.7	1.4	-17.4	-7.2	5.3	-12.9	-5.4	4.2	-3.5	.0
17	18.9	.0	8.6	3.9	-10.9	-4.3	8.1	-9.8	-2.5	5.7	-2.1	1.7
18	17.7	1.4	8.4	3.2	-8.6	-2.7	7.1	-4.9	-.7	8.8	-6.4	.3
19	16.5	-.3	8.0	8.5	-3.8	2.9	3.9	-10.9	-3.8	6.0	-4.9	.7
20	12.8	1.8	6.6	5.3	-4.9	1.1	5.3	-11.7	-5.5	-1.0	-14.9	-6.7
21	13.9	-.7	5.4	.4	-8.6	-3.9	4.2	-10.9	-3.8	-1.0	-15.3	-9.4
22	14.6	-1.4	5.9	3.2	-10.9	-4.2	3.2	-7.9	-3.9	-3.8	-16.2	-9.5
23	12.4	-1.7	4.4	8.8	-8.3	-.9	1.8	-9.0	-5.3	2.1	-11.3	-4.5
24	4.2	-6.0	-1.8	10.6	-6.0	2.0	-3.5	-12.5	-8.2	7.1	-8.3	-1.9
25	-3.8	-10.1	-5.6	11.3	-1.4	5.0	-5.7	-15.7	-10.0	3.5	-8.6	-3.1
26	4.6	-10.9	-3.4	9.9	1.1	4.1	-3.8	-17.9	-11.8	7.8	-9.4	-1.8
27	10.2	-6.4	1.1	3.9	-4.6	.6	.7	-16.6	-9.2	8.8	-5.3	.7
28	11.3	-3.8	2.7	-.7	-7.5	-2.9	-3.8	-17.9	-10.0	8.5	-8.6	-1.3
29	12.1	-2.4	5.6	5.7	-8.6	-2.7	5.3	-8.3	-2.7	10.6	-8.6	.3
30	11.7	-.7	6.3	8.5	-4.9	.0	6.0	-9.8	-3.0	8.1	-4.9	.5
31	13.5	4.2	8.8	---	---	---	7.4	-7.9	-1.5	2.5	-7.9	-3.3
MONTH	22.5	-10.9	6.4	16.1	-18.8	.0	11.3	-20.7	-5.5	10.6	-17.0	-2.4

380844107512200 PLEASANT VALLEY METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.2	-12.5	-4.9	.0	-19.3	-9.6	10.6	-6.0	1.9	16.1	2.5	9.2
2	1.4	-6.0	-1.6	3.2	-14.1	-4.0	-.7	-4.9	-2.4	18.5	2.1	11.6
3	9.9	-4.2	2.7	7.4	-3.5	2.2	8.5	-3.1	2.7	18.5	4.9	11.8
4	7.8	-2.1	1.8	4.2	-3.8	1.8	10.6	-.7	5.9	17.3	1.4	10.7
5	7.4	-4.9	-.8	4.6	-9.8	-.7	8.5	-2.4	3.8	15.0	.7	8.8
6	5.3	-8.3	-.5	2.8	-3.8	-.3	4.2	-2.4	1.4	11.0	1.4	5.4
7	2.1	-3.8	-.5	-3.8	-14.5	-7.4	3.2	-4.6	-.8	13.1	-.7	6.7
8	.7	-6.0	-1.9	1.1	-18.8	-7.6	3.9	-3.5	-.8	11.3	-.7	5.9
9	4.2	-10.9	-2.1	.4	-11.7	-5.5	6.0	-5.7	.6	16.9	3.2	10.1
10	1.4	-10.5	-4.0	---	---	---	15.4	-4.9	5.7	17.3	4.6	11.8
11	2.8	-12.9	-6.6	7.4	-9.8	-1.5	17.3	6.4	12.4	14.6	4.2	9.9
12	.7	-9.4	-5.1	9.5	-7.5	.9	7.4	-1.7	3.0	16.1	1.4	10.6
13	6.4	-11.3	-3.3	10.6	-5.7	2.8	7.8	-1.4	3.5	16.9	6.4	13.2
14	5.3	-10.5	-1.6	10.2	-3.1	3.5	6.0	-.7	2.2	10.2	-1.4	5.0
15	5.3	-6.8	-1.9	10.6	-2.4	4.0	3.9	-3.5	-1.2	14.3	-1.7	6.8
16	1.1	-6.8	-3.0	10.6	-3.5	3.6	.7	-4.9	-2.3	17.3	.7	11.3
17	2.8	-6.0	-1.9	8.1	-3.1	2.7	5.3	-6.8	-1.8	20.9	10.2	15.6
18	1.8	-7.1	-3.0	-.3	-7.5	-4.7	4.9	-7.1	-1.3	21.3	7.4	16.2
19	2.8	-10.1	-3.5	2.1	-7.5	-3.1	8.8	-6.8	2.1	20.1	7.8	15.5
20	3.5	-10.1	-3.3	7.1	-9.4	-1.0	9.9	-2.8	3.8	20.5	7.1	14.4
21	5.3	-8.6	-1.3	10.2	-5.7	2.6	13.1	-2.8	5.3	18.5	6.0	14.3
22	2.8	-3.5	.4	13.9	-1.0	6.6	17.3	-2.8	8.0	15.0	2.5	9.6
23	6.0	.0	2.7	15.8	2.5	9.0	18.5	2.5	11.7	16.5	.4	9.4
24	8.1	-2.8	3.1	16.9	1.8	10.5	14.6	3.9	10.5	15.0	1.4	8.0
25	-2.8	-10.1	-5.2	16.1	7.8	11.9	8.5	-1.0	3.3	19.7	1.1	10.7
26	-4.6	-13.3	-9.1	11.3	.4	5.7	7.8	-2.1	2.7	19.7	6.4	14.1
27	-5.3	-13.7	-9.2	7.4	.0	3.6	11.7	-2.1	4.9	21.7	6.4	15.3
28	-3.8	-18.8	-11.9	7.4	-.7	2.8	12.8	-1.0	5.8	23.3	7.1	15.5
29	---	---	---	-.7	-11.7	-4.8	15.0	.4	8.0	22.9	7.8	16.5
30	---	---	---	-2.8	-12.9	-6.7	16.9	.0	8.9	20.5	7.4	16.2
31	---	---	---	4.2	-6.8	-2.0	---	---	---	22.1	5.7	15.3
MONTH	9.9	-18.8	-2.7	---	---	---	18.5	-7.1	3.6	23.3	-1.7	11.5
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.8	7.4	16.7	29.2	11.3	21.7	22.9	12.4	17.5	19.3	9.9	13.0
2	24.6	8.1	17.7	27.3	11.0	20.3	22.9	8.5	16.6	23.3	8.1	14.7
3	21.7	11.7	17.3	26.0	14.3	19.5	22.9	8.1	16.5	26.4	8.8	16.9
4	12.1	3.9	9.0	25.1	13.9	19.1	22.9	7.1	15.6	26.9	11.0	19.3
5	14.6	2.5	8.2	26.0	11.3	17.8	24.2	7.4	16.0	26.4	11.0	19.4
6	18.9	.4	10.9	23.3	12.8	17.0	26.0	8.8	17.6	25.5	10.2	17.8
7	18.5	8.8	14.2	21.3	11.3	15.4	27.3	9.2	19.4	26.4	9.2	18.1
8	16.9	2.5	10.7	22.5	9.2	14.7	27.3	11.3	19.7	23.8	11.3	17.5
9	16.5	4.2	12.4	21.3	12.1	16.2	25.5	11.0	17.5	23.8	13.1	18.5
10	16.5	4.2	12.7	20.5	12.4	15.6	20.5	10.6	15.6	23.8	12.4	17.6
11	17.3	2.5	10.2	26.0	10.6	18.1	23.8	9.5	15.5	21.7	11.3	15.5
12	21.3	3.2	13.5	27.3	9.5	19.7	25.1	7.8	16.9	19.3	8.5	13.0
13	16.1	9.9	13.2	27.8	11.3	20.0	25.5	10.6	17.9	20.1	8.8	14.1
14	18.1	5.3	12.1	28.2	12.1	20.9	26.4	9.5	17.4	20.5	5.7	13.6
15	18.9	.0	11.0	29.7	11.3	21.1	27.3	10.6	19.6	22.1	8.1	15.1
16	21.7	10.6	17.2	28.2	12.8	20.7	25.5	13.5	19.5	20.9	7.1	13.7
17	17.7	3.2	9.7	28.7	12.4	21.4	23.8	12.4	17.3	22.9	6.4	14.4
18	19.3	1.1	11.2	30.1	13.5	22.2	23.3	12.4	18.0	23.8	7.1	15.7
19	24.2	5.3	16.0	30.1	15.4	22.3	24.6	11.0	17.6	22.1	7.8	15.2
20	22.1	9.5	16.8	30.6	13.9	21.6	24.6	10.6	16.9	22.5	5.7	14.1
21	24.6	7.8	17.0	27.8	15.0	19.9	20.5	12.1	16.5	20.5	7.8	14.9
22	25.1	8.1	17.5	26.0	12.4	18.4	26.4	9.5	17.9	20.5	6.4	13.3
23	23.8	10.6	17.5	24.2	12.1	17.6	28.7	11.3	20.0	18.1	6.7	11.8
24	23.3	9.9	17.4	19.3	13.1	16.0	26.0	12.8	18.1	23.8	4.9	14.4
25	26.0	7.8	18.5	20.9	12.8	15.9	23.8	9.9	14.5	22.9	9.5	16.9
26	25.5	11.7	19.9	22.9	9.5	15.9	24.6	11.7	17.4	20.9	3.5	12.3
27	26.9	9.2	18.8	21.7	11.7	15.8	23.3	11.0	16.7	24.2	3.9	13.4
28	29.2	8.8	19.9	20.5	11.7	15.9	25.5	7.4	16.7	23.3	6.4	13.2
29	30.6	11.3	21.8	23.8	9.9	16.9	26.9	10.2	18.9	19.3	5.3	11.2
30	30.6	12.4	22.4	23.8	9.5	16.8	27.3	10.2	18.9	22.5	6.4	13.7
31	---	---	---	25.1	11.7	18.5	25.1	11.3	16.0	---	---	---
MONTH	30.6	.0	15.0	30.6	9.2	18.5	28.7	7.1	17.4	26.9	3.5	15.1

380844107512200 PLEASANT VALLEY METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.0	.0	.1	.0	.0	.0	.1	.1	.0	.0	.0	.3
2	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
3	.4	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0
4	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
5	.0	.0	.0	.1	.1	.1	.0	.0	.0	.1	.0	.0
6	.0	.1	.0	.0	.0	.1	.0	.1	.0	.3	.0	.0
7	.5	.0	.1	.0	.0	.1	.2	.0	.0	.2	.0	.0
8	.1	.1	.3	.0	.2	.0	.0	.0	.0	.7	.0	.0
9	.0	.1	.0	.0	.0	.0	.1	.0	.0	.1	.1	.0
10	.0	.1	.1	.0	.0	.0	.0	.0	.0	.4	.0	.0
11	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.5
12	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
13	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14	.0	.2	.0	.0	.1	.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	.1	.0	.3	.0	.0	.0	.0	.0
17	.0	.0	.0	.0	.0	.0	.3	.0	.2	.0	.0	.0
18	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.0
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
23	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0
24	.1	.0	.1	.0	.0	.0	.1	.1	.0	.5	.4	.1
25	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.5	.0
26	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27	.0	.2	.1	.0	.1	.0	.1	.0	.0	.5	.1	.0
28	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	.0	.0
29	.0	.0	.0	.0	---	.1	.0	.0	.0	.0	.0	.1
30	.0	.0	.0	.0	---	.1	.0	.1	.0	.1	.0	.1
31	.0	---	.0	.1	---	.1	---	.0	---	.0	.2	---
TOTAL	1.7	1.2	1.3	0.3	0.9	1.2	1.4	0.4	0.2	3.8	1.3	1.5

WTR YR 1998 TOTAL 15.2

380916107452200 RIDGWAY METEOROLOGICAL STATION AT RIDGWAY, CO

LOCATION.--Lat 38°09'16", long 107°45'22", in SW¼NW¼ 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, 32.1°C, June 26, 1994, and June 29, and July 19, 20, 1998; minimum, -29.8°C, Dec. 24, 1993.
PRECIPITATION: Maximum daily, 2.0 inches, Oct. 3, 1996.

EXTREMES FOR CURRENT YEAR.--
AIR TEMPERATURE: Maximum, 32.1°C, June 29, and July 19, 20; minimum, -26.3°C, Dec. 11 and 12.
PRECIPITATION: Maximum daily, 0.6 inches, July 10 and Sept. 12.

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	23.8	.7	11.5	8.5	-9.0	.9	2.1	-4.6	-1.7	4.2	-14.1	-4.6
2	21.7	4.9	13.0	7.1	-10.9	-3.3	.4	-4.2	-2.1	11.0	-5.7	3.9
3	17.3	3.2	10.6	11.3	-11.7	-.6	-3.5	-21.1	-8.5	8.8	-2.4	2.6
4	21.7	-2.1	8.9	14.3	-9.8	.4	.4	-24.7	-14.7	4.6	-6.0	-1.4
5	25.1	-2.1	9.8	14.6	-8.6	.7	-.3	-21.1	-11.9	1.1	-8.6	-4.1
6	24.6	.4	11.0	16.5	-9.4	1.2	6.0	-17.4	-8.0	-2.8	-10.9	-6.5
7	19.7	4.2	10.6	16.1	-8.3	2.6	3.2	-6.4	-1.3	-.7	-18.3	-9.1
8	9.9	-2.8	4.1	12.1	-6.0	2.8	2.8	-11.3	-2.0	3.5	-15.7	-7.6
9	18.5	-6.0	4.6	5.7	-2.8	1.0	-4.2	-11.3	-6.4	3.2	-14.5	-5.5
10	21.7	.0	12.4	4.6	-2.4	.5	-5.7	-10.1	-7.6	2.1	-5.3	-2.2
11	17.7	1.8	12.0	9.5	-1.4	2.1	-5.7	-26.3	-12.5	3.2	-6.8	-1.8
12	1.8	-3.1	-1.1	4.9	-5.7	.4	-3.5	-26.3	-18.1	4.6	-7.1	-.6
13	8.5	-9.4	-.8	.7	-1.7	-.7	1.1	-22.6	-14.1	5.7	-9.4	-2.8
14	14.3	-7.5	1.9	-1.7	-10.9	-5.4	5.3	-19.7	-10.5	1.1	-12.9	-5.2
15	15.8	-6.0	3.7	-3.8	-19.3	-12.2	3.9	-17.4	-8.1	.4	-14.1	-5.6
16	18.9	-5.3	5.2	.0	-19.7	-9.8	2.5	-19.3	-11.0	4.6	-2.8	.6
17	19.3	-5.7	5.4	3.2	-14.5	-6.6	5.3	-16.2	-7.4	7.1	-5.7	1.5
18	18.5	-5.3	5.3	4.6	-11.3	-3.8	6.0	-11.7	-5.9	7.8	-7.5	-1.0
19	18.1	-5.7	5.0	10.2	-4.6	2.5	1.1	-14.5	-6.9	7.4	-8.3	-.5
20	15.4	-4.6	4.6	6.0	-3.5	1.4	2.1	-17.0	-10.3	-.7	-16.6	-6.6
21	15.0	-6.0	3.8	.4	-7.9	-3.6	3.5	-17.0	-7.3	.7	-18.8	-10.9
22	16.1	-6.8	3.8	4.6	-11.3	-4.8	.4	-9.8	-4.7	-3.8	-18.3	-10.6
23	13.1	-7.1	2.6	8.8	-11.7	-3.6	1.8	-12.5	-6.0	1.8	-13.3	-5.7
24	6.0	-4.9	-.6	12.4	-10.9	-2.0	-4.9	-17.0	-10.0	7.4	-12.9	-4.0
25	-3.1	-7.9	-4.8	12.4	-7.1	2.6	-4.9	-17.0	-9.3	4.9	-10.9	-5.1
26	4.6	-11.7	-4.0	8.8	-1.4	4.2	-3.8	-20.2	-12.8	7.8	-11.7	-4.0
27	9.5	-10.1	-1.3	5.7	-3.5	1.6	2.5	-22.6	-12.7	9.9	-9.0	-1.5
28	11.7	-8.6	.5	1.1	-7.1	-2.2	-2.8	-23.1	-11.7	7.4	-11.3	-3.3
29	12.8	-7.1	3.1	6.0	-10.1	-3.6	5.3	-13.3	-5.1	9.5	-12.1	-3.0
30	13.9	-4.2	5.4	8.5	-9.4	-2.4	4.9	-15.3	-7.9	6.0	-4.2	.0
31	14.6	-4.9	5.2	---	---	---	6.4	-15.7	-7.2	.7	-7.1	-3.0
MONTH	25.1	-11.7	4.9	16.5	-19.7	-1.3	6.4	-26.3	-8.5	11.0	-18.8	-3.5

380916107452200 RIDGWAY METEOROLOGICAL STATION AT RIDGWAY, CO--Continued

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.2	-12.5	-5.4	-.7	-17.4	-8.8	11.3	-6.4	1.9	18.1	-2.4	8.5
2	1.8	-7.5	-2.1	3.2	-13.3	-4.3	.0	-3.5	-1.5	20.9	-1.4	10.4
3	9.2	-5.3	1.2	8.5	-3.1	1.8	8.8	-3.1	2.4	20.1	-3.8	9.4
4	7.8	-3.8	.9	3.5	-3.1	.4	12.1	-6.0	5.1	18.1	-4.9	9.0
5	4.2	-5.3	-1.1	8.1	-9.4	-.1	10.2	-5.7	3.6	16.9	-2.1	8.9
6	6.0	-7.1	.0	2.8	-3.1	.1	4.9	-3.5	2.1	12.8	1.1	6.7
7	4.6	-4.2	.0	-3.1	-16.6	-6.8	3.2	-4.9	-.6	15.0	-.3	7.2
8	1.1	-5.7	-1.7	-1.0	-19.3	-8.1	3.9	-3.1	-.3	12.8	-4.6	5.0
9	2.1	-8.3	-1.6	1.1	-10.1	-4.4	6.7	-6.8	1.1	18.5	2.8	10.4
10	.7	-9.0	-3.0	5.7	-12.1	-3.2	16.9	-6.4	4.9	19.3	-2.4	10.6
11	1.1	-11.3	-6.0	6.7	-9.8	-1.7	19.3	-1.4	11.5	16.1	1.4	11.3
12	1.4	-10.9	-5.1	11.3	-9.4	.2	9.9	-.3	4.4	17.3	-2.8	9.2
13	3.9	-13.3	-4.4	12.8	-9.8	1.9	11.0	-2.8	4.2	19.7	7.4	14.1
14	6.4	-9.0	-1.4	10.6	-6.8	2.2	7.1	.0	3.1	11.0	-.7	6.1
15	4.6	-4.9	-1.2	12.8	-6.0	2.9	3.9	-3.1	-.6	15.8	-6.0	6.2
16	1.1	-5.7	-2.1	12.1	-7.5	3.0	1.4	-4.6	-1.8	20.1	-5.3	9.8
17	2.5	-4.6	-1.0	10.6	-6.0	2.2	4.9	-5.7	-.5	22.9	-1.0	13.6
18	.7	-5.3	-2.4	.0	-6.8	-4.0	6.4	-3.8	-.2	23.3	.7	13.3
19	2.5	-8.3	-2.6	2.5	-9.4	-3.1	10.2	-7.9	2.6	21.7	.7	13.0
20	4.6	-9.0	-3.1	7.8	-9.8	-1.5	11.7	-6.0	3.7	21.7	5.7	14.8
21	6.7	-9.0	-1.6	11.0	-7.5	1.6	14.3	-6.8	4.7	20.5	3.5	15.2
22	5.7	-5.3	.9	15.8	-4.9	5.0	18.9	-6.8	6.7	16.5	-2.1	8.9
23	8.8	-.7	2.9	17.3	-3.5	6.7	20.1	-3.8	10.1	18.1	-3.5	9.2
24	8.8	-2.1	3.7	18.1	-2.4	8.0	16.1	5.3	11.4	16.1	-2.1	7.2
25	-1.4	-6.8	-3.4	17.7	1.4	11.9	9.5	-1.4	4.3	20.9	-3.1	9.6
26	-4.9	-10.9	-7.9	11.3	1.4	6.1	8.8	-3.1	2.7	22.1	1.1	12.8
27	-5.7	-15.7	-9.1	8.8	.4	4.7	13.9	-4.6	4.7	23.8	-1.7	13.2
28	-4.6	-17.4	-11.1	8.1	-.3	2.9	13.1	-3.5	5.2	24.6	-1.4	13.6
29	---	---	---	-.3	-11.3	-3.4	15.8	-4.2	6.5	25.1	.7	14.6
30	---	---	---	-.3	-12.9	-5.9	18.5	-4.9	7.6	22.5	4.2	15.4
31	---	---	---	5.7	-6.4	-1.2	---	---	---	23.8	.7	14.3
MONTH	9.2	-17.4	-2.4	18.1	-19.3	.2	20.1	-7.9	3.6	25.1	-6.0	10.7
		JUNE			JULY			AUGUST			SEPTEMBER	
1	26.0	3.2	15.3	31.1	4.6	20.0	24.6	11.7	18.3	20.9	10.2	13.8
2	26.4	-.7	15.0	29.2	9.9	22.2	25.5	5.3	16.0	23.3	7.8	14.8
3	24.2	2.1	16.5	27.3	11.7	20.0	24.6	4.9	16.0	27.3	4.9	15.7
4	14.6	3.5	9.8	26.0	11.7	20.2	24.2	4.9	15.7	28.2	7.8	18.9
5	13.9	1.8	8.7	27.3	8.1	17.6	25.5	6.4	16.1	28.2	8.1	18.6
6	20.9	-1.4	10.5	24.2	12.8	17.7	27.8	4.9	16.6	26.4	6.4	16.6
7	20.5	3.2	14.1	22.5	10.6	15.7	30.1	4.9	17.7	27.8	6.4	16.8
8	18.9	-1.0	11.1	23.3	8.5	15.2	28.2	6.0	17.9	25.5	8.8	16.8
9	20.1	-.3	11.8	22.5	10.6	15.9	26.9	7.8	17.1	24.2	9.2	17.6
10	18.5	1.4	12.6	22.5	12.4	16.2	20.5	8.8	14.4	24.2	7.4	16.0
11	16.5	-.7	9.6	27.3	9.2	18.6	23.8	7.8	15.1	23.3	11.7	16.2
12	21.3	1.4	13.6	29.2	7.1	18.8	26.9	4.2	16.2	22.1	8.5	13.8
13	18.5	10.2	14.6	28.7	7.1	19.0	27.3	6.7	17.0	22.1	7.4	14.4
14	19.3	6.7	12.5	29.7	7.4	19.8	28.2	5.7	18.3	21.7	3.2	13.5
15	19.7	-2.4	10.7	31.1	6.0	19.4	27.8	5.3	18.3	23.8	5.3	14.7
16	24.2	7.4	17.6	30.1	7.8	19.7	27.3	7.8	17.9	22.5	3.2	11.8
17	19.3	4.2	10.7	30.1	8.1	20.3	25.1	6.4	16.7	23.8	2.5	12.7
18	20.5	.0	11.5	30.6	8.5	21.1	23.8	8.8	17.3	25.1	2.1	14.1
19	26.0	.4	15.0	32.1	8.5	21.4	26.0	5.7	16.7	23.8	3.9	14.4
20	23.8	1.8	14.8	32.1	7.8	20.5	26.0	5.7	16.0	24.6	-1.0	11.9
21	26.0	3.9	16.2	28.7	9.2	19.4	22.1	11.7	17.9	22.5	.7	11.4
22	26.4	.7	16.0	26.0	11.3	18.6	27.8	6.7	17.3	21.3	-2.1	9.4
23	25.5	8.5	19.0	25.5	12.4	17.9	29.7	7.1	18.6	19.3	4.9	11.8
24	24.6	4.2	17.3	21.7	13.9	17.2	27.3	9.5	17.0	26.0	.4	12.5
25	28.2	-.3	15.8	22.5	11.7	16.1	25.5	6.7	14.5	25.1	2.5	13.5
26	26.9	2.8	16.4	24.2	8.5	15.8	25.5	12.1	17.8	22.9	-2.4	10.3
27	28.2	2.1	16.8	23.3	11.3	16.6	24.2	9.5	16.3	25.1	-3.1	9.9
28	31.1	2.1	18.5	22.1	12.1	16.5	26.9	3.9	15.6	23.8	-.3	10.5
29	32.1	3.2	19.6	25.1	9.9	17.3	28.7	5.7	17.9	20.5	1.4	10.8
30	31.6	3.9	20.1	25.5	8.5	16.7	28.7	4.9	17.1	22.9	3.5	13.3
31	---	---	---	26.0	9.5	18.8	26.4	6.4	15.5	---	---	---
MONTH	32.1	-2.4	14.4	32.1	4.6	18.4	30.1	3.9	16.8	28.2	-3.1	13.9
YEAR	32.1	-26.3	5.6									

380916107452200 RIDGWAY METEOROLOGICAL STATION AT RIDGWAY, CO--Continued

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
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	.5
2	.1	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.1
3	.2	.0	.3	.0	.0	.0	.0	.0	.1	.2	.0	.1
4	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6	.0	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0
7	.3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1
8	.0	.0	.2	.0	.1	.1	.1	.0	.0	.1	.1	.0
9	.1	.1	.1	.0	.0	.0	.0	.0	.0	.2	.2	.0
10	.0	.0	.2	.0	.0	.0	.0	.0	.0	.6	.0	.0
11	.0	.1	.0	.0	.2	.0	.1	.0	.0	.1	.0	.1
12	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.6
13	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
16	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
17	.0	.0	.0	.0	.0	.1	.2	.0	.2	.0	.1	.0
18	.0	.0	.0	.0	.1	.3	.1	.0	.0	.0	.1	.0
19	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0
20	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
23	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	.0	.0
24	.3	.0	.0	.0	.1	.0	.0	.1	.0	.2	.1	.0
25	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.3	.0
26	.0	.1	.0	.0	.1	.2	.0	.0	.0	.0	.1	.0
27	.0	.1	.1	.0	.1	.1	.1	.0	.0	.1	.1	.1
28	.0	.1	.0	.0	.0	.2	.0	.1	.0	.2	.0	.0
29	.0	.0	.0	.0	---	.1	.0	.0	.0	.0	.0	.1
30	.0	.0	.0	.0	---	.2	.0	.0	.1	.0	.0	.1
31	.0	---	.0	.0	---	.1	---	.1	---	.0	.1	---
TOTAL	1.2	1.0	1.0	0.3	1.0	1.7	1.3	0.5	0.5	2.3	1.4	2.1

WTR YR 1998 TOTAL 14.3

381001107412300 DRY CREEK METEOROLOGICAL STATION NEAR RIDGWAY, CO

LOCATION.--Lat 38°10'01", long 107°41'23", in SE¼NE¼ sec.12, T.45 N, R.8 W., Ouray County, Hydrologic Unit 14020006, 3.7 mi east of Ridgway.

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

GAGE.--Weighing-bucket rain gage with satellite telemetry. Elevation of gage is 7,360 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 recorded, 32.6°C, July 18, 19, 1998; minimum recorded, -26.9°C, Dec. 18, 1996.
PRECIPITATION: Maximum daily, 1.8 inches, Oct. 3, 1996.

EXTREMES FOR CURRENT YEAR.--
AIR TEMPERATURE: Maximum, 32.6°C, July 18, 19; minimum, -21.6°C, Dec. 11 and 12.
PRECIPITATION: Maximum daily, 0.8 inches, July 26.

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.6	4.9	13.6	9.5	-6.0	2.2	2.8	-3.1	-1.0	7.1	-7.1	.1
2	22.1	7.8	14.0	8.8	-7.1	-.6	-.3	-4.2	-2.5	11.3	-1.0	6.0
3	18.5	5.3	11.1	11.7	-8.3	1.7	2.8	-16.2	-6.5	8.1	-2.8	2.6
4	22.9	1.1	11.2	15.4	-4.2	4.5	5.3	-17.9	-8.6	4.9	-5.3	-1.1
5	26.0	3.2	13.3	15.4	-3.8	4.2	4.6	-12.9	-5.6	1.1	-6.8	-4.0
6	24.2	4.2	14.1	18.1	-4.6	5.1	10.6	-9.4	-1.8	-2.4	-11.7	-6.7
7	18.5	3.9	11.4	17.3	-1.7	6.3	4.2	-2.8	-.4	2.1	-17.9	-8.6
8	10.2	-.7	4.1	12.4	-.3	5.4	1.1	-8.6	-1.9	6.4	-15.3	-5.8
9	18.9	-3.8	6.6	4.9	-2.1	.8	-3.5	-9.4	-6.4	4.6	-10.5	-3.1
10	21.7	3.9	14.7	4.2	-3.1	-.1	-4.2	-10.9	-7.6	2.8	-4.2	-1.3
11	17.7	.7	11.7	10.2	-.7	2.6	-2.8	-21.6	-11.2	5.3	-4.6	-1.0
12	.7	-3.8	-1.9	6.4	-4.2	.4	-2.4	-21.6	-13.2	6.0	-6.8	-.3
13	9.9	-9.0	-.2	1.8	-2.1	-1.2	7.1	-18.3	-8.0	6.0	-7.9	-2.0
14	16.5	-5.7	3.9	-2.1	-10.5	-5.3	11.0	-11.3	-3.3	3.2	-14.1	-5.0
15	17.3	-2.4	6.4	1.1	-17.4	-10.8	4.9	-9.8	-3.1	1.1	-13.3	-5.0
16	19.3	-1.0	8.1	1.8	-18.8	-8.0	5.7	-13.3	-5.7	5.3	-3.5	.4
17	20.9	-1.0	8.6	5.3	-12.1	-4.9	8.5	-10.5	-3.3	5.7	-2.1	1.8
18	20.1	-.3	8.6	6.0	-10.1	-2.6	9.5	-5.7	-.8	9.2	-7.9	.2
19	18.5	-1.4	8.3	10.2	-2.8	3.3	5.3	-11.3	-3.7	6.0	-4.9	.4
20	13.9	1.4	7.3	4.6	-3.5	1.0	4.9	-12.5	-5.6	5.3	-15.7	-5.4
21	16.1	-2.1	6.4	.4	-9.4	-4.0	4.2	-12.9	-4.7	1.8	-17.4	-8.9
22	16.9	-2.4	6.1	7.1	-11.3	-4.2	4.9	-7.1	-3.7	-4.2	-17.0	-9.6
23	12.1	-1.0	4.7	11.3	-9.8	-1.3	5.7	-9.8	-4.6	6.0	-10.5	-3.7
24	4.9	-5.7	-1.1	14.6	-6.8	1.4	-2.8	-12.5	-8.3	9.2	-10.5	-2.3
25	-.7	-9.4	-5.3	12.4	-2.4	5.0	-2.4	-13.7	-9.1	4.6	-9.0	-3.6
26	6.0	-13.3	-3.8	12.1	1.1	4.6	-3.1	-16.2	-11.2	9.2	-10.5	-1.9
27	11.0	-7.9	.6	5.7	-4.6	1.2	.4	-16.6	-9.8	12.1	-5.7	1.2
28	12.8	-4.6	3.0	.4	-6.4	-2.4	-1.4	-17.4	-9.2	10.2	-8.6	-1.1
29	13.9	-2.4	5.3	9.2	-9.8	-2.5	8.1	-9.4	-2.5	9.9	-9.4	-.9
30	13.9	-.7	6.5	11.0	-5.3	.2	11.7	-10.9	-3.4	6.4	-2.8	.5
31	14.6	-.3	7.5	---	---	---	10.2	-9.0	-2.0	2.8	-8.3	-2.8
MONTH	26.0	-13.3	6.6	18.1	-18.8	.1	11.7	-21.6	-5.4	12.1	-17.9	-2.3

381001107412300 DRY CREEK METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	9.2	-13.3	-4.8	.4	-19.3	-9.2	11.7	-5.3	2.4	18.1	2.1	10.0
2	2.1	-6.8	-1.6	5.7	-14.5	-4.3	-1.0	-4.6	-2.4	20.5	2.1	12.1
3	10.2	-3.5	3.0	8.1	-2.4	2.5	9.9	-2.4	3.1	20.5	2.8	11.9
4	6.7	-1.0	2.8	3.5	-3.5	.7	10.6	-1.0	5.2	18.1	.0	10.8
5	5.3	-4.2	-.4	8.8	-10.1	-.3	9.9	-2.1	4.3	15.8	.7	9.3
6	6.7	-7.5	-.1	4.6	-3.1	.0	5.3	-2.4	1.8	12.4	1.1	6.5
7	6.0	-4.2	.1	.7	-15.7	-5.3	3.5	-3.5	-1.0	15.0	.0	7.3
8	1.1	-6.0	-1.9	---	-19.7	---	6.0	-3.5	-.3	13.9	-1.4	6.5
9	4.2	-6.8	-1.7	3.9	-10.9	-3.9	7.8	-7.9	.8	18.1	4.2	10.8
10	2.5	-10.1	-3.4	---	---	---	17.7	-5.3	6.5	18.5	3.5	11.4
11	.0	-13.3	-6.3	8.1	-9.8	-1.2	18.5	8.8	13.3	15.8	2.8	10.7
12	2.1	-10.1	-4.8	12.1	-8.6	1.2	8.8	-1.0	3.8	16.5	1.4	10.6
13	4.6	-11.7	-3.9	13.5	-6.8	3.3	9.2	-2.4	3.8	18.1	5.7	14.2
14	8.1	-9.0	-1.5	11.0	-3.8	3.7	6.7	-1.0	2.4	10.6	.4	5.6
15	5.7	-4.9	-1.4	13.5	-2.8	4.8	5.3	-3.1	-.9	15.8	-2.1	7.3
16	2.1	-6.4	-2.6	11.7	-4.9	4.0	1.8	-3.8	-1.8	18.9	.4	11.6
17	2.8	-5.3	-1.5	10.2	-3.5	3.4	6.0	-4.2	-.4	21.7	6.0	15.2
18	2.1	-6.4	-2.8	.0	-8.6	-4.1	7.1	-4.6	.2	22.9	8.8	16.6
19	5.7	-9.0	-2.6	6.4	-9.8	-2.8	11.3	-7.1	2.8	20.5	7.1	14.7
20	6.0	-10.1	-3.1	9.2	-9.0	-.5	11.7	-3.5	4.9	20.9	8.5	15.3
21	6.7	-10.1	-1.6	12.8	-6.8	3.1	15.0	-3.5	6.3	20.5	8.5	14.6
22	4.9	-4.9	.7	16.1	-1.7	6.9	19.7	-3.5	8.7	16.5	1.4	10.1
23	7.4	.0	3.1	17.7	1.8	9.4	19.7	1.4	12.2	18.1	.4	9.9
24	7.8	-2.8	3.9	18.1	2.8	10.9	16.1	4.9	10.6	16.1	1.4	8.8
25	-2.1	-7.9	-4.3	16.9	4.2	11.6	11.0	-1.0	4.1	21.7	.4	11.4
26	-4.6	-10.9	-8.2	11.3	.7	5.8	8.8	-2.4	2.9	21.7	6.4	14.3
27	-2.4	-14.5	-8.7	8.5	.0	3.8	14.6	-3.5	5.4	23.3	4.2	15.0
28	-.7	-17.9	-10.6	8.1	-.7	2.7	13.5	-2.1	6.0	24.2	5.3	15.7
29	---	---	---	.7	-10.9	-3.8	17.7	-1.0	8.7	23.8	7.1	16.5
30	---	---	---	-.3	-12.5	-5.9	18.5	.0	9.8	22.5	7.8	16.2
31	---	---	---	7.1	-5.7	-.6	---	---	---	24.6	6.4	15.8
MONTH	10.2	-17.9	-2.3	---	---	---	19.7	-7.9	4.1	24.6	-2.1	11.8
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.5	8.8	17.4	30.1	9.2	21.9	24.6	13.9	18.3	21.3	9.9	13.8
2	26.0	6.7	17.6	29.2	13.9	22.1	25.5	8.1	17.7	24.6	8.5	15.7
3	22.5	9.9	16.9	27.8	13.9	20.2	25.5	8.5	17.5	28.7	8.1	16.8
4	13.5	4.9	9.1	26.4	12.4	20.2	24.6	8.1	16.8	30.1	9.9	19.6
5	14.6	3.2	9.0	26.9	10.2	18.1	26.4	8.1	17.8	29.2	10.2	20.0
6	20.5	.4	11.4	24.2	12.8	17.9	28.7	8.8	18.9	27.3	10.2	18.4
7	19.7	8.1	15.0	22.9	12.4	16.1	31.6	9.5	20.2	28.2	9.9	18.1
8	18.5	2.8	11.5	23.3	9.2	15.3	28.7	11.3	20.0	25.5	11.0	17.6
9	18.5	4.2	12.7	23.3	11.3	16.7	27.3	11.0	18.4	24.6	12.4	19.8
10	17.7	6.4	12.9	23.3	12.8	16.5	22.5	11.7	15.9	25.5	11.3	18.0
11	17.3	1.1	10.3	27.3	10.2	18.8	23.8	9.2	16.2	22.5	12.4	16.4
12	22.9	4.9	14.7	29.7	9.9	19.7	27.3	7.4	17.7	22.5	9.2	13.7
13	16.9	10.2	13.9	29.7	10.6	20.9	26.0	10.2	18.2	22.9	9.2	15.1
14	18.5	5.7	12.0	30.1	10.2	21.2	29.2	9.2	18.6	22.9	6.0	14.6
15	19.3	.7	11.4	31.6	10.2	21.6	28.7	8.8	19.3	22.9	7.8	15.4
16	22.9	11.7	17.4	30.6	11.3	21.7	26.9	11.7	19.1	22.5	6.0	14.2
17	18.1	3.5	9.9	31.1	11.3	22.5	24.6	11.0	17.9	25.1	5.7	15.4
18	20.9	1.8	12.0	32.6	13.1	23.0	26.0	11.0	17.9	25.5	6.0	16.4
19	25.1	3.5	16.1	32.6	14.3	23.1	24.6	10.6	18.1	23.8	7.1	16.2
20	23.8	7.8	16.8	32.1	12.8	22.0	25.5	9.5	17.4	23.8	6.4	15.0
21	25.1	6.4	17.1	29.2	13.5	21.4	22.1	13.1	17.5	22.5	6.7	13.9
22	25.1	5.3	17.2	27.8	14.3	19.3	28.7	8.8	18.9	20.9	5.3	12.7
23	25.1	12.1	18.8	25.5	13.1	18.0	29.7	9.9	20.7	21.3	7.1	13.2
24	24.2	7.1	17.6	22.5	13.5	17.1	25.5	12.8	18.1	25.5	3.9	15.0
25	27.8	6.0	18.3	21.7	12.4	16.1	24.2	9.2	15.3	24.6	8.8	15.9
26	26.4	8.8	18.7	23.3	9.9	15.8	26.4	12.1	18.3	22.5	2.8	12.8
27	28.2	6.0	19.1	23.3	12.1	16.9	25.1	11.3	17.2	25.1	2.8	13.4
28	30.6	7.1	20.5	22.1	12.1	16.7	28.2	7.4	17.6	22.1	6.0	13.3
29	32.1	7.8	21.8	26.0	10.6	17.7	29.2	10.2	19.8	21.3	4.6	12.2
30	31.1	8.8	22.3	25.5	10.6	17.9	29.7	8.5	19.5	22.9	5.7	14.2
31	---	---	---	26.0	11.0	18.8	25.1	11.0	16.3	---	---	---
MONTH	32.1	.4	15.3	32.6	9.2	19.2	31.6	7.4	18.1	30.1	2.8	15.6

381001107412300 DRY CREEK METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.3
2	.2	.0	.1	.0	.0	.0	.4	.0	.1	.0	.0	.0
3	.3	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.0
4	.0	.0	.1	.0	.1	.0	.1	.1	.0	.0	.0	.0
5	.1	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0
6	.1	.0	.1	.1	.0	.1	.0	.0	.1	.1	.0	.0
7	.3	.0	.0	.1	.0	.1	.3	.0	.0	.0	.0	.0
8	.0	.0	.2	.1	.1	.1	.1	.1	.0	.1	.0	.0
9	.0	.1	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0
10	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1	.0	.0
11	.0	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0
12	.4	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.6
13	.1	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0
14	.0	.4	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0
15	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
16	.0	.0	.0	.1	.0	.0	.3	.1	.0	.0	.2	.1
17	.0	.0	.0	.0	.0	.1	.1	.1	.2	.0	.0	.0
18	.0	.0	.0	.0	.1	.4	.2	.0	.0	.0	.1	.0
19	.0	.0	.0	.2	.1	.1	.1	.1	.0	.0	.0	.0
20	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	.0	.0
23	.0	.1	.0	.0	.0	.0	.1	.0	.0	.2	.0	.0
24	.4	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
25	.1	.0	.0	.0	.1	.0	.1	.0	.0	.2	.2	.0
26	.0	.0	.0	.0	.1	.3	.1	.0	.0	.8	.0	.0
27	.0	.1	.0	.0	.2	.2	.1	.0	.0	.0	.2	.0
28	.0	.1	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
29	.0	.0	.0	.0	---	.2	.1	.0	.0	.0	.0	.0
30	.0	.0	.0	.0	---	.2	.1	.0	.0	.0	.0	.0
31	.0	---	.0	.1	---	.1	---	.0	---	.0	.1	---
TOTAL	2.0	1.2	1.3	1.0	1.4	2.2	2.9	0.8	0.6	1.6	0.8	1.0

WTR YR 1998 TOTAL 16.8

381422107453000 RIDGWAY RESERVOIR METEOROLOGICAL STATION NEAR RIDGWAY, CO

LOCATION.--Lat 38°14'22", long 107°45'30", in NE¼SE¼ 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 good.

EXTREMES FOR PERIOD OF RECORD.--
AIR TEMPERATURE: Maximum recorded, 33.2°C, June 26, 1994, and June 29, 30 and July 19, 1998; minimum recorded, -23.6°C, Dec. 13, 1993.
PRECIPITATION: Maximum daily, 1.7 inches, Oct. 3, 1996.

EXTREMES FOR CURRENT YEAR.--
AIR TEMPERATURE: Maximum, 33.2°C, June 29, 30 and July 19; minimum, -21.1°C, Dec. 12.
PRECIPITATION: Maximum daily, 1.1 inches, Aug. 25.

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.6	5.7	14.4	9.5	-3.8	2.7	2.1	-2.8	-.6	6.0	-9.4	-1.6
2	22.9	9.5	15.0	7.8	-6.8	-.4	-.3	-3.1	-1.5	12.8	-3.1	5.6
3	17.7	6.0	11.7	11.0	-7.1	1.7	-.3	-14.5	-6.5	8.8	-1.4	3.7
4	21.7	2.5	11.2	15.0	-3.8	4.0	3.2	-16.6	-8.7	6.0	-3.8	.0
5	25.5	3.5	13.1	14.3	-3.8	4.2	1.8	-13.3	-6.3	2.8	-4.9	-2.4
6	26.0	5.3	14.8	16.1	-3.5	5.1	7.8	-10.1	-2.6	-1.4	-9.4	-5.7
7	19.7	7.4	11.5	15.8	-1.4	6.2	3.5	-3.1	-.6	.0	-16.2	-7.5
8	11.7	-.3	5.8	13.1	-.7	6.0	2.8	-4.2	-.5	6.0	-12.9	-4.9
9	17.3	-2.4	6.7	7.1	-1.0	1.8	-3.5	-7.5	-5.1	5.7	-10.1	-3.1
10	22.5	3.2	13.1	2.8	-2.1	.7	-4.9	-9.0	-6.9	4.2	-3.1	-.2
11	19.3	.7	13.7	9.9	.4	3.4	-5.3	-19.3	-10.9	5.7	-3.5	.1
12	3.5	-2.4	-.3	5.7	-1.4	1.9	-2.8	-21.1	-13.4	6.4	-4.6	1.1
13	9.9	-7.1	.5	3.2	-1.0	-.1	4.9	-16.6	-8.6	6.0	-4.6	-1.0
14	14.3	-4.2	4.0	-.3	-8.6	-4.5	8.1	-11.3	-4.5	2.1	-11.7	-4.1
15	15.8	-1.7	6.2	-1.7	-13.7	-9.0	2.8	-9.8	-3.6	1.1	-12.1	-4.6
16	18.5	-1.0	7.7	1.8	-15.3	-6.6	2.8	-13.3	-5.7	4.9	-3.5	.8
17	19.7	-.3	8.5	4.9	-10.1	-3.4	6.7	-12.1	-4.0	7.8	-3.1	2.5
18	18.9	.4	8.7	6.4	-8.3	-1.8	5.7	-5.7	-1.4	8.1	-4.9	1.1
19	18.5	.0	8.8	13.1	-1.4	4.2	2.1	-10.1	-4.2	8.1	-4.2	1.1
20	16.1	2.5	8.7	8.1	-2.8	2.5	3.5	-12.5	-5.9	1.4	-12.9	-5.0
21	15.8	-.3	7.2	.7	-6.4	-2.5	2.1	-11.3	-4.4	1.8	-14.9	-8.3
22	17.3	-1.0	7.1	6.4	-9.4	-2.9	4.9	-7.1	-2.7	-2.8	-14.9	-8.6
23	13.5	-1.7	5.2	8.1	-9.4	-1.9	2.5	-9.4	-4.6	2.5	-9.4	-3.6
24	5.3	-4.6	-.4	12.1	-7.5	.6	-2.8	-12.9	-8.1	9.2	-10.1	-2.3
25	-2.4	-8.3	-4.5	14.6	-2.4	5.2	-4.6	-12.9	-8.5	5.3	-7.5	-2.7
26	4.6	-10.5	-3.0	10.6	1.4	5.4	-2.8	-15.7	-10.4	7.1	-9.0	-1.7
27	9.5	-7.1	.5	6.4	-2.1	2.8	-3.1	-17.0	-10.5	11.7	-6.0	1.0
28	12.1	-5.3	2.6	1.1	-5.3	-1.5	-.3	-17.0	-9.1	8.5	-7.5	-1.1
29	13.5	-2.8	5.1	6.4	-8.6	-2.0	6.4	-8.6	-2.9	8.1	-7.9	-.6
30	14.6	.4	7.1	9.5	-6.0	-.2	6.0	-10.1	-3.5	6.7	-1.7	1.5
31	16.9	2.5	8.6	---	---	---	8.8	-9.0	-2.2	.4	-6.4	-1.9
MONTH	26.0	-10.5	7.1	16.1	-15.3	.7	8.8	-21.1	-5.4	12.8	-16.2	-1.7

381422107453000 RIDGWAY RESERVOIR METEOROLOGICAL STATION NEAR RIDGWAY, CO

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	5.7	-10.9	-3.9	.0	-16.6	-8.1	13.9	-4.9	3.5	18.9	2.8	10.6
2	1.4	-4.9	-1.5	3.9	-12.1	-3.3	1.1	-3.1	-1.1	21.7	3.2	12.4
3	9.5	-3.5	2.2	10.2	-1.4	3.3	9.2	-.7	3.5	20.9	2.5	12.9
4	8.8	-1.0	2.8	4.2	-2.1	.0	12.8	-3.1	5.6	18.9	1.4	11.6
5	5.3	-2.8	.8	8.1	-7.5	.6	12.1	-3.5	4.9	18.1	2.1	10.6
6	8.1	-5.7	1.3	5.3	-2.8	1.0	6.0	-2.1	3.2	12.8	2.8	7.9
7	3.9	-2.4	1.2	-2.4	-13.7	-6.2	2.5	-2.4	-.5	15.8	2.1	8.9
8	1.8	-3.1	-.5	-.3	-17.4	-7.3	4.6	-2.4	.3	14.6	-.3	7.1
9	2.5	-5.7	-1.0	1.4	-9.8	-4.4	7.4	-5.3	1.8	18.9	5.3	11.7
10	2.1	-7.5	-2.0	7.4	-10.9	-2.3	17.3	-3.8	6.2	19.3	.4	12.0
11	1.4	-9.0	-4.7	7.4	-7.9	-.5	19.3	.4	12.0	16.9	4.2	12.0
12	2.5	-8.3	-3.5	12.8	-6.4	2.2	9.5	1.8	5.4	18.1	2.1	11.2
13	3.9	-10.5	-3.2	13.5	-4.9	3.9	10.6	-1.0	5.0	19.3	4.9	13.2
14	7.1	-5.7	.0	12.1	-2.8	4.2	7.8	1.1	4.2	12.1	1.1	7.2
15	6.4	-3.1	.0	13.5	-2.4	4.8	6.7	-2.1	.2	16.5	-2.1	8.0
16	2.1	-4.2	-1.2	12.8	-3.8	4.3	1.8	-3.5	-1.0	20.1	.0	11.6
17	3.9	-4.2	-.1	11.3	-2.4	4.2	6.4	-4.9	.4	23.8	2.5	14.4
18	1.8	-4.6	-1.7	1.4	-5.7	-3.4	6.7	-2.8	.7	23.8	6.4	15.9
19	3.2	-7.1	-1.6	3.2	-7.1	-2.2	11.3	-5.3	3.7	22.1	6.4	15.2
20	5.3	-7.9	-1.9	7.8	-8.3	-.4	12.1	-2.4	5.3	22.1	8.8	16.2
21	8.1	-8.3	-.6	12.1	-4.9	3.4	14.6	-2.4	6.4	20.9	6.7	14.9
22	7.1	-3.8	1.9	16.9	-.7	7.2	19.3	-1.7	8.7	17.7	1.4	10.6
23	9.2	.0	3.7	18.1	2.5	9.0	20.9	3.2	12.4	19.7	.7	10.9
24	10.2	-.3	5.0	19.7	2.5	11.2	16.9	6.0	12.1	16.9	2.1	9.4
25	.4	-7.1	-3.0	18.5	3.9	13.1	8.5	.0	4.8	21.7	1.8	12.1
26	-1.7	-9.8	-6.6	12.1	2.5	6.9	10.2	-1.4	4.2	22.9	4.9	14.9
27	-3.8	-13.3	-8.1	10.2	1.4	5.4	14.3	-2.1	6.2	24.6	4.6	15.9
28	-2.4	-16.2	-9.9	9.2	-.3	4.2	14.6	-1.4	7.2	26.0	6.4	16.5
29	---	---	---	.7	-7.9	-1.8	16.9	-.3	8.7	25.5	6.7	17.3
30	---	---	---	1.1	-9.4	-4.0	18.9	.7	9.8	23.8	9.5	16.9
31	---	---	---	6.4	-4.2	-.4	---	---	---	25.1	6.0	16.6
MONTH	10.2	-16.2	-1.3	19.7	-17.4	1.4	20.9	-5.3	4.8	26.0	-2.1	12.5
		JUNE			JULY			AUGUST			SEPTEMBER	
1	26.4	7.1	17.9	32.1	11.0	22.9	25.5	13.9	19.2	20.9	12.4	14.8
2	27.3	8.1	18.4	30.1	11.7	22.5	25.5	8.8	18.2	24.6	8.8	16.3
3	24.6	10.2	18.8	26.9	13.5	20.6	25.5	8.8	17.8	27.8	9.2	18.2
4	15.0	6.0	10.7	27.3	15.4	21.3	25.1	8.1	17.1	30.1	11.3	20.7
5	14.3	4.6	9.5	27.3	11.3	18.7	26.0	9.2	18.0	30.1	11.7	20.6
6	22.5	2.1	12.4	24.6	13.9	19.1	28.2	9.5	19.2	26.9	10.6	18.9
7	20.9	7.8	15.5	24.2	12.8	16.9	30.6	10.2	20.9	28.7	11.3	19.9
8	19.3	2.5	12.0	23.8	10.6	16.6	29.2	11.7	20.7	26.9	12.1	19.6
9	20.1	3.2	13.5	23.8	12.4	17.8	27.8	12.4	19.1	26.9	12.8	20.3
10	19.3	4.6	13.0	21.7	13.5	17.1	21.3	11.7	16.7	25.1	10.2	18.1
11	17.7	2.8	11.4	28.7	11.3	19.7	25.5	11.0	16.9	23.3	13.1	17.1
12	21.7	5.7	14.9	29.7	9.5	20.0	27.3	7.8	18.2	20.9	10.2	14.7
13	18.1	12.4	15.7	30.6	11.3	21.5	27.3	10.2	19.3	23.3	9.2	15.6
14	18.5	6.4	12.8	30.6	12.4	22.2	28.7	9.5	19.9	22.1	7.1	14.9
15	21.3	1.4	12.0	31.1	9.5	21.8	28.2	11.0	19.8	25.1	8.1	16.1
16	24.6	11.3	19.5	30.6	11.7	21.9	27.3	12.1	19.7	23.8	7.8	14.6
17	20.1	4.6	11.1	31.1	12.8	22.7	26.9	11.7	18.6	24.6	7.1	15.6
18	20.9	2.5	12.7	32.1	12.8	23.7	25.1	12.4	19.3	26.4	7.4	16.9
19	26.4	5.3	16.8	33.2	13.5	23.6	27.3	10.2	19.1	25.1	9.5	17.1
20	25.1	7.8	17.3	32.6	12.4	22.8	25.1	10.6	18.2	25.5	6.0	15.4
21	26.4	8.8	18.3	29.2	13.5	22.2	21.7	13.9	18.7	23.8	4.9	14.1
22	26.9	7.1	18.4	26.9	14.6	20.6	28.2	10.2	19.5	22.9	3.2	12.3
23	26.4	10.6	19.8	26.4	13.9	19.7	31.6	11.7	21.3	20.9	8.8	14.1
24	25.5	10.6	18.8	22.5	14.3	18.0	28.7	14.3	19.6	27.3	4.2	15.3
25	28.7	6.7	18.6	22.5	13.1	16.8	25.5	10.6	15.7	25.5	7.1	15.4
26	27.8	8.1	19.3	23.8	10.2	16.8	26.4	13.1	19.0	22.1	3.2	13.0
27	29.2	10.6	20.1	24.6	12.8	18.1	25.5	12.4	17.8	24.6	2.1	13.2
28	32.1	8.1	20.9	22.9	14.6	17.7	26.9	8.1	17.4	23.8	6.7	13.5
29	33.2	12.1	23.2	25.1	12.1	18.1	29.2	11.0	20.2	22.9	6.0	12.5
30	33.2	11.7	23.5	26.4	11.7	18.7	29.2	10.6	20.1	24.6	6.0	15.1
31	---	---	---	26.9	12.4	19.9	26.0	9.5	16.6	---	---	---
MONTH	33.2	1.4	16.2	33.2	9.5	20.0	31.6	7.8	18.8	30.1	2.1	16.1
YEAR	33.2	-21.1	7.5									

381422107453000 RIDGWAY RESERVOIR METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

PRECIPITATION (INCHES),WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
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	.3
2	.3	.0	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0
3	.3	.0	.2	.0	.0	.0	.0	.0	.0	.5	.0	.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
5	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0
6	.0	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0
7	.2	.0	.1	.0	.0	.1	.5	.0	.0	.0	.0	.0
8	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0
9	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	.0
10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.8	.0	.0
11	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.5
12	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
13	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
14	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	.0	.0	.1	.0	.0	.0	.3	.0	.0	.0	.0	.0
16	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0
17	.0	.0	.0	.0	.0	.1	.1	.0	.1	.0	.4	.0
18	.0	.0	.0	.0	.1	.3	.1	.0	.0	.0	.0	.0
19	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21	.0	.0	.0	.0	.1	.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	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	.1	.0	.0	.0	.1	.0	.1	.0	.0	.5	1.1	.0
26	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0
27	.0	.1	.0	.0	.2	.1	.0	.0	.0	.0	.1	.0
28	.0	.1	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0
29	.0	.0	.0	.0	---	.0	.0	.0	.0	.1	.0	.2
30	.0	.0	.0	.0	---	.1	.0	.0	.0	.1	.0	.0
31	.0	---	.0	.1	---	.1	---	.0	---	.1	.0	---
TOTAL	1.8	0.8	0.9	0.5	0.7	1.2	1.8	0.1	0.1	2.7	1.8	1.3

WTR YR 1998 TOTAL 13.7

MISCELLANEOUS STATION ANALYSES

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)

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)
OCT 1997				
08...	1211	29	69	6.5
MAY 1998				
14...	1411	97	60	9.0
JUN				
11...	1146	81	67	10.0
JUL 1998				
10...	1146	76	60	11.0
AUG				
06...	0857	32	72	8.0
SEP				
02...	0907	24	73	8.0

09022000 FRASER RIVER AT UPPER STATION, NEAR WINTER PARK, CO (LAT 39 50 45N LONG 105 45 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)
OCT 1997				
07...	1006	7.4	80	2.5
NOV				
12...	1002	4.6	87	.5
DEC				
10...	1015	6.4	48	.5
JAN 1998				
14...	1039	2.7	92	.0
FEB				
10...	0933	2.3	97	.0
MAR				
11...	0948	2.1	190	.5
APR				
23...	1220	3.8	218	4.0
MAY 1998				
06...	1017	9.2	180	1.5
JUN				
09...	1046	35	73	3.5
23...	0950	60	52	3.5
JUL				
16...	0956	23	61	5.0
AUG				
04...	1140	20	65	6.5
SEP				
01...	1043	11	78	6.5

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)
OCT 1997				
07...	1115	24	76	5.0
DEC				
04...	1304	4.7	125	.0
MAR 1998				
11...	0950	3.8	182	1.0
APR				
13...	1620	6.9	224	4.5
MAY				
12...	1151	41	92	4.0
JUN 1998				
04...	1132	195	50	4.0
09...	1208	97	60	5.0
JUL				
08...	1200	61	56	7.5
AUG				
04...	1311	37	72	8.5
SEP				
01...	1312	23	81	9.0

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)
OCT 1997				
07...	1320	17	43	5.0
DEC				
04...	1430	5.7	53	.0
JAN 1998				
21...	1239	6.2	48	.0
APR				
13...	1244	7.4	66	1.5
MAY				
12...	1340	23	47	4.0
JUN 1998				
09...	1408	81	31	6.0
JUL				
08...	1348	21	34	8.5
AUG				
04...	1447	11	44	10.5
SEP				
01...	1453	8.4	52	10.0

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)
OCT 1997				
06...	1425	.68	41	5.0
APR 1998				
16...	1025	.03	86	.5
MAY				
14...	1036	2.7	53	1.0
JUN				
04...	0914	9.8	36	1.5
09...	1515	6.0	37	4.5
JUL 1998				
08...	1514	2.6	29	7.0
AUG				
04...	1612	2.0	38	7.0
SEP				
01...	1610	.93	40	7.5

MISCELLANEOUS STATION ANALYSES--Continued

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)
09026500 ST. LOUIS CREEK NEAR FRASER, CO (LAT 39 54 36N LONG 105 52 40W)									
OCT 1997					MAY 1998				
06...	1527	20	80	7.5	12...	1322	27	82	6.0
DEC					JUN				
04...	1046	5.2	26	.0	10...	0944	80	60	2.5
JAN 1998					JUL				
16...	1208	4.6	96	.0	09...	0900	53	55	7.0
MAR					AUG				
10...	1226	4.6	96	.5	05...	0823	14	77	7.0
APR					SEP				
14...	1005	4.3	102	.5	03...	0914	13	79	6.5
09032000 RANCH CREEK NEAR FRASER, CO (LAT 39 57 00N LONG 105 45 54W)									
OCT 1997					FEB 1998				
07...	--	8.0	47	6.5	11...	1422	2.7	56	.0
NOV									
13...	0910	3.3	51	1.0					
09032100 CABIN CREEK NEAR FRASER, CO (LAT 39 59 09N LONG 105 44 40W)									
OCT 1997					JUN 1998				
07...	1448	3.8	46	6.5	03...	1715	46	27	6.5
JAN 1998					10...	1132	21	31	5.0
22...	1141	1.4	48	.0	JUL				
APR					09...	1051	11	35	9.0
15...	1333	1.6	45	.5	AUG				
MAY					05...	1506	11	38	12.0
13...	0936	11	29	1.5	SEP				
					03...	1317	3.7	47	11.5
400016105490800 MEADOW CREEK AT MOUTH NEAR TABERNASH, CO (LAT 40 00 16N LONG 105 49 08W)									
OCT 1997					JUN 1998				
08...	1332	.26	96	7.5	03...	1502	40	30	11.0
NOV					10...	1520	2.3	56	10.0
17...	1410	.51	73	.5	JUL				
JAN 1998					09...	1319	1.2	69	17.5
16...	1000	.71	72	.0	AUG				
MAR					05...	1041	.77	82	13.0
09...	1530	.82	67	.0	SEP				
APR					03...	1114	.03	104	9.5
14...	1434	2.4	74	2.0					
MAY									
13...	1413	7.4	52	9.0					
09033100 RANCH CREEK BELOW MEADOW CREEK NEAR TABERNASH, CO (LAT 39 59 57N LONG 105 49 37W)									
NOV 1997					FEB 1998				
12...	1457	13	76	1.5	10...	1438	9.2	83	.0
DEC									
10...	1525	.50	79	.0					
09034250 COLORADO RIVER AT WINDY GAP, NEAR GRANBY, CO (LAT 40 06 30N LONG 106 00 13W)									
OCT 1997					JUN 1998				
08...	1000	114	129	9.0	12...	0811	581	97	8.0
JAN 1998					JUL				
21...	1410	86	136	.0	10...	0951	408	119	13.0
MAR					AUG				
09...	1730	104	137	.5	06...	1230	196	147	18.0
APR					SEP				
15...	1727	387	100	4.5	02...	1249	79	121	18.5
MAY									
14...	1710	407	92	9.5					

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
09034900 BOBTAIL CREEK NEAR JONES PASS, CO (LAT 39 45 37N LONG 105 54 21W)				
OCT 1997				
07...	1300	4.7	63	5.5
NOV				
26...	1140	1.5	63	.0
JAN 1998				
21...	1130	.94	68	.5
21...	1140	.94	68	.5
MAR				
24...	1136	.85	70	1.5
APR				
21...	1045	.86	71	.5
MAY 1998				
28...	0954	24	37	1.5
JUN				
17...	1320	26	38	4.0
JUL				
20...	1354	17	37	14.5
AUG				
31...	1400	5.5	59	11.0
09035500 WILLIAMS FORK BELOW STEELMAN CREEK, CO (LAT 39 46 44N LONG 105 55 40W)				
OCT 1997				
07...	1040	11	64	3.5
NOV				
12...	1318	6.4	61	.0
JAN 1998				
21...	1130	3.8	68	.0
MAR				
24...	1020	2.9	70	.0
MAY 1998				
28...	1123	67	35	3.0
JUN				
17...	1030	69	38	2.5
JUL				
20...	1049	35	46	8.5
AUG				
31...	1114	1.3	77	9.5
09035700 WILLIAMS FORK ABOVE DARLING CREEK, NEAR LEAL, CO (LAT 39 47 22N LONG 106 01 18W)				
OCT 1997				
07...	1055	17	64	5.5
NOV				
05...	1015	27	75	.0
JAN 1998				
15...	1100	9.0	80	.0
FEB				
24...	1430	8.7	74	.0
APR				
29...	0950	56	49	2.5
JUN 1998				
04...	1340	204	36	3.5
15...	1400	105	43	6.0
JUL				
21...	1700	26	54	15.0
AUG				
19...	1100	34	60	11.5
SEP				
15...	1230	8.4	67	11.5
09035800 DARLING CREEK NEAR LEAL, CO (LAT 39 48 17N LONG 106 01 11W)				
OCT 1997				
07...	0911	4.3	78	3.5
NOV				
05...	1110	4.1	78	.5
JAN 1998				
15...	1345	2.9	82	.0
FEB				
24...	1230	3.6	120	.5
MAY				
12...	1615	7.5	71	4.5
JUN 1998				
04...	1445	44	47	2.5
15...	1500	23	54	5.0
JUL				
22...	0945	13	64	8.0
AUG				
19...	1530	7.9	70	9.5
SEP				
15...	1415	5.0	77	8.0
09035900 SOUTH FORK OF WILLIAMS FORK NEAR LEAL, CO (LAT 39 47 44N LONG 106 01 49W)				
OCT 1997				
07...	1122	15	85	4.5
NOV				
05...	1220	17	90	.0
JAN 1998				
15...	1435	13	92	.0
FEB				
24...	1005	9.5	92	.0
MAY				
14...	1115	43	66	2.0
JUN 1998				
15...	1640	84	58	7.0
JUL				
22...	1200	38	67	9.5
AUG				
19...	1310	26	78	10.0
SEP				
15...	1610	16	86	10.5

MISCELLANEOUS STATION ANALYSES--Continued

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)
09036000 WILLIAMS FORK NEAR LEAL, CO (LAT 39 49 53N LONG 106 03 15W)									
OCT 1997					MAY 1998				
07...	1405	46	79	8.0	14...	1315	136	62	6.0
NOV					JUN				
05...	1530	51	82	2.5	16...	1530	240	53	5.5
JAN 1998					JUL				
15...	1600	25	86	.5	22...	1410	99	67	13.5
FEB					AUG				
24...	1650	23	102	1.5	20...	0940	83	72	9.5
APR					SEP				
10...	1510	28	91	3.5	17...	0950	36	84	7.0
09037500 WILLIAMS FORK NEAR PARSHALL, CO (LAT 40 00 01N LONG 106 10 45W)									
OCT 1997					JUN 1998				
08...	0757	65	96	6.0	17...	1130	132	66	6.5
NOV					JUL				
06...	1030	60	92	.5	23...	1000	22	108	14.5
JAN 1998					AUG				
16...	1120	50	101	.0	20...	1150	57	95	14.0
FEB					SEP				
25...	1145	44	96	.0	17...	1125	14	127	12.5
MAY									
13...	0845	146	75	5.5					
09038500 WILLIAMS FORK BELOW WILLIAMS FORK RESERVOIR, CO (LAT 40 02 07N LONG 106 12 17W)									
OCT 1997					JUN 1998				
08...	1015	108	76	9.5	17...	1245	18	96	6.5
NOV					JUL				
06...	1230	124	85	8.0	23...	1145	19	96	8.0
JAN 1998					AUG				
16...	1245	109	87	4.5	20...	1350	91	96	8.5
FEB					SEP				
25...	1400	107	152	3.5	17...	1300	77	96	9.0
MAY									
13...	1115	227	95	5.5					
09041000 MUDDY CREEK NEAR KREMMLING, CO (LAT 40 17 37N LONG 106 28 59W)									
OCT 1997					JUN 1998				
08...	1440	30	196	9.0	09...	1115	119	140	10.5
NOV					JUL				
14...	1320	19	221	.0	22...	1515	23	530	21.5
JAN 1998					SEP				
08...	1315	14	312	.0	09...	1405	9.4	281	21.0
09046490 BLUE RIVER AT BLUE RIVER, CO (LAT 39 27 21N LONG 106 01 52W)									
OCT 1997					MAY 1998				
08...	1130	23	143	8.5	14...	1142	42	149	15.0
NOV					JUN				
05...	1113	13	159	3.5	04...	1453	114	120	9.0
JAN 1998					29...	1215	58	124	14.0
08...	1005	6.6	181	.0	AUG				
MAR					05...	1243	78	110	11.0
03...	1155	5.7	178	.5	SEP				
APR					02...	1238	49	144	12.5
22...	1607	6.5	187	2.5					

MISCELLANEOUS STATION ANALYSES--Continued

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)
09046600 BLUE RIVER NEAR DILLON, CO (LAT 39 34 00N LONG 106 02 56W)									
OCT 1997					MAY 1998				
08...	1400	64	149	9.5	13...	1341	113	164	8.5
20...	1015	60	147	7.1	18...	1615	122	154	7.4
NOV					JUN				
05...	1331	48	154	7.5	04...	1200	307	122	8.0
13...	0930	45	148	4.0	30...	1547	168	122	12.0
JAN 1998					AUG				
07...	1411	29	157	.0	05...	1425	148	127	13.5
MAR					SEP				
02...	1550	22	171	4.0	02...	1316	89	149	13.5
APR									
21...	1459	26	186	9.5					
09047500 SNAKE RIVER NEAR MONTEZUMA, CO (LAT 39 36 20N LONG 105 56 33W)									
OCT 1997					MAY 1998				
09...	1347	31	107	4.5	13...	1007	41	142	3.0
NOV					JUN				
04...	1242	32	111	.5	03...	1146	246	65	5.0
JAN 1998					AUG				
07...	1045	17	112	.0	06...	1021	83	96	8.0
APR					SEP				
23...	1415	20	170	5.0	01...	1300	50	100	10.0
09047700 KEYSTONE GULCH NEAR DILLON, CO (LAT 39 35 40N LONG 105 58 19W)									
OCT 1997					MAY 1998				
01...	1228	3.8	84	6.5	13...	1408	6.0	87	3.5
NOV					JUN				
04...	1424	3.7	82	.5	03...	1352	17	65	9.0
JAN 1998					30...	1235	7.7	77	11.5
07...	1230	2.8	85	.0	AUG				
MAR					06...	1150	4.4	85	10.0
02...	1405	2.6	86	.0	SEP				
APR					01...	1052	3.7	88	9.0
23...	1636	4.1	86	5.0					
09050100 TENMILE CREEK BELOW NORTH TENMILE CREEK, AT FRISCO, CO (LAT 39 34 37N LONG 106 06 33W)									
OCT 1997					MAY 1998				
07...	1419	36	605	7.5	12...	1434	109	688	9.0
NOV					JUL				
05...	1519	38	915	4.0	01...	1351	267	276	12.0
JAN 1998					AUG				
06...	1407	23	980	.5	26...	0955	66	530	10.5
MAR					SEP				
03...	1304	23	1030	1.0	16...	1312	76	880	10.0
APR									
24...	0900	40	1100	1.5					
09050700 BLUE RIVER BELOW DILLON, CO (LAT 39 37 32N LONG 106 03 57W)									
OCT 1997					MAY 1998				
09...	1111	112	180	7.5	13...	1615	351	294	4.0
NOV					JUN				
06...	1307	314	180	7.0	03...	1636	463	230	4.5
JAN 1998					JUL				
06...	1522	108	214	3.5	01...	1050	348	210	10.5
MAR					AUG				
04...	0949	113	277	3.0	05...	1815	370	199	12.5
APR					SEP				
21...	1120	108	298	3.5	02...	1623	192	208	11.0

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
09051050 STRAIGHT CREEK BELOW LASKEY GULCH NEAR DILLON, CO (LAT 39 38 23N LONG 106 02 23W)				
OCT 1997				
09...	0938	6.0	136	1.0
NOV				
04...	1015	6.8	167	.0
JAN 1998				
06...	1235	3.8	150	.0
MAR				
02...	1148	3.3	163	.0
APR				
21...	0920	3.9	372	.5
MAY				
12...	1248	9.2	244	7.0
JUN 1998				
01...	1115	37	94	5.0
JUL				
01...	1305	45	79	9.5
AUG				
06...	1349	18	115	11.5
25...	1300	9.4	128	11.0
SEP				
01...	1428	11	124	9.0
09058500 PINEY RIVER BELOW PINEY LAKE, NEAR MINTURN, CO (LAT 39 42 29N LONG 106 25 38W)				
OCT 1997				
15...	1130	14	41	4.5
DEC				
01...	1345	3.4	56	.0
JAN 1998				
13...	1410	3.7	63	.0
MAR				
03...	1145	2.1	68	.0
APR				
15...	1300	6.2	68	.0
MAY 1998				
27...	1330	84	37	9.5
JUN				
24...	1330	95	27	8.5
JUL				
30...	1215	35	35	15.5
SEP				
09...	1250	3.8	57	14.5
09058610 DICKSON CREEK NEAR VAIL, CO (LAT 39 42 14N LONG 106 27 25W)				
OCT 1997				
15...	1355	2.4	360	5.0
DEC				
01...	1530	.78	342	.0
JAN 1998				
13...	1410	.48	357	.0
MAR				
03...	1350	.27	351	.0
APR				
16...	1040	1.1	373	.5
MAY 1998				
27...	1510	8.6	257	10.5
JUN				
24...	1355	5.8	300	13.0
JUL				
30...	1500	2.1	337	16.5
SEP				
09...	1520	2.0	360	15.5
09058700 FREEMAN CREEK NEAR MINTURN, CO (LAT 39 41 55N LONG 106 26 41W)				
OCT 1997				
15...	1450	.52	213	5.2
DEC				
01...	1425	.32	138	.0
JAN 1998				
13...	1510	.04	134	.0
MAR				
03...	1230	.04	129	.0
APR				
16...	1215	.41	132	.0
MAY 1998				
27...	1410	6.4	121	11.0
JUN				
24...	1705	1.2	189	16.5
JUL				
30...	1630	.55	230	18.5
SEP				
09...	1630	.12	248	15.5
09058800 EAST MEADOW CREEK NEAR MINTURN, CO (LAT 39 43 54N LONG 106 25 36W)				
OCT 1997				
15...	1025	2.0	63	.0
APR 1998				
15...	1230	.65	76	.0
MAY				
27...	1045	16	49	1.5
JUN 1998				
24...	1240	17	38	11.5
AUG				
05...	1225	3.3	54	7.2
SEP				
09...	1125	1.3	66	8.5

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
09058900 MONIGER CREEK NEAR MINTURN, CO (LAT 39 43 37N LONG 106 28 50W)				
JUN 1998				
24...	1520	1.4	114	10.5
JUL				
30...	1340	.26	147	12.0
SEP 1998				
09...	1350	.10	147	11.0
09059500 PINEY RIVER NEAR STATE BRIDGE, CO (LAT 39 48 00N LONG 106 35 00W)				
OCT 1997				
07...	1100	31	284	8.0
NOV				
18...	1135	30	322	.0
JAN 1998				
06...	1155	20	330	.0
FEB				
18...	1120	18	383	.5
APR				
08...	1440	28	337	5.5
27...	1530	78	252	7.2
MAY 1998				
15...	1045	228	178	3.5
JUN				
02...	0930	453	113	5.0
JUL				
07...	1010	141	128	10.5
AUG				
20...	1235	31	292	17.0
09060550 ROCK CREEK AT CRATER, CO (LAT 39 58 42N LONG 106 42 34W)				
NOV 1997				
18...	0900	17	126	.0
JAN 1998				
06...	0840	13	125	.0
FEB				
18...	0900	13	128	.0
APR				
07...	0845	21	126	.5
MAY				
15...	0825	199	70	2.0
JUN 1998				
02...	1215	144	57	9.5
11...	1410	71	72	10.0
JUL				
07...	0905	14	107	12.0
AUG				
20...	1440	1.8	170	18.0
09063200 WEARYMAN CREEK NEAR RED CLIFF, CO (LAT 39 31 14N LONG 106 19 06W)				
OCT 1997				
16...	0935	3.7	288	.5
DEC				
02...	1245	1.8	254	.0
JAN 1998				
14...	1450	1.7	296	.2
MAR				
12...	1235	1.8	295	.0
APR				
14...	1445	1.9	308	1.0
MAY 1998				
28...	0850	14	231	2.5
JUN				
25...	0835	30	220	3.0
JUL				
29...	1520	8.0	262	8.0
SEP				
10...	0925	3.5	290	5.5
09063400 TURKEY CREEK NEAR RED CLIFF, CO (LAT 39 31 32N LONG 106 20 08W)				
OCT 1997				
16...	1000	6.8	266	1.0
DEC				
02...	1340	4.0	279	.0
JAN 1998				
14...	1450	3.0	263	.0
MAR				
12...	1200	2.5	290	.0
APR				
14...	1615	4.2	294	1.1
MAY 1998				
28...	1010	58	199	4.5
JUN				
25...	0940	66	202	3.5
JUL				
29...	1650	18	251	9.0
SEP				
10...	1030	7.4	287	7.0
09063900 MISSOURI CREEK NEAR GOLD PARK, CO (LAT 39 23 25N LONG 106 28 10W)				
OCT 1997				
14...	1500	8.4	28	.1
DEC				
02...	0915	2.0	43	.0
JAN 1998				
13...	0930	1.7	38	.0
APR				
14...	1000	1.5	37	.1
MAY				
26...	1400	15	28	4.5
JUN 1998				
04...	1155	16	26	7.0
23...	1320	16	24	6.5
JUL				
29...	1335	9.4	27	11.0
SEP				
08...	1520	5.5	33	13.5

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
09064000 HOMESTAKE CREEK AT GOLD PARK, CO (LAT 39 24 20N LONG 106 25 58W)				
OCT 1997				
14...	1600	34	32	2.0
DEC				
02...	1005	8.1	34	.0
JAN 1998				
13...	1105	4.6	37	.0
MAR				
12...	1035	3.7	39	.1
APR				
14...	1200	7.1	38	1.0
MAY 1998				
26...	1545	47	31	7.0
JUN				
23...	1430	33	28	9.5
JUL				
02...	1225	184	19	12.5
AUG				
04...	1440	32	32	14.5
SEP				
08...	1750	13	34	11.0
09064500 HOMESTAKE CREEK NEAR RED CLIFF, CO (LAT 39 28 24N LONG 106 22 02W)				
OCT 1997				
14...	1655	33	33	4.5
DEC				
02...	1135	14	39	.0
JAN 1998				
13...	1230	12	40	.0
MAR				
12...	1040	13	40	.0
APR				
13...	1625	29	38	3.6
MAY				
26...	1615	88	32	10.5
JUN 1998				
04...	1415	91	30	9.0
23...	1625	63	33	9.5
JUL				
02...	1440	214	19	12.0
AUG				
04...	1720	51	34	15.0
SEP				
08...	1835	28	40	16.0
09064600 EAGLE RIVER NEAR MINTURN, CO (LAT 39 33 14N LONG 106 24 07W)				
OCT 1997				
14...	1745	77	143	4.2
DEC				
03...	0945	46	181	.0
JAN 1998				
12...	1700	32	189	.0
MAR				
11...	1345	18	147	.3
MAY 1998				
26...	1715	306	116	10.0
JUN				
23...	1740	262	223	9.0
JUL				
29...	1815	147	208	13.5
SEP				
08...	1815	50	159	14.5
09065100 CROSS CREEK NEAR MINTURN, CO (LAT 39 34 05N LONG 106 24 45W)				
OCT 1997				
15...	1800	30	47	4.0
DEC				
02...	1700	7.1	51	.0
JAN 1998				
12...	1325	3.7	67	.0
MAR				
11...	1425	3.2	99	.0
APR 1998				
13...	1330	14	57	5.5
MAY				
26...	1930	118	28	7.5
JUN				
23...	1815	165	25	9.5
SEP				
09...	0755	26	46	11.0
09065500 GORE CREEK AT UPPER STATION, NEAR MINTURN, CO (LAT 39 37 40N LONG 106 16 24W)				
OCT 1997				
06...	1046	9.6	65	4.5
NOV				
03...	1218	6.5	64	.0
JAN 1998				
28...	1241	2.3	68	.0
MAR				
10...	1550	1.7	71	.5
31...	1547	3.7	70	1.0
MAY 1998				
12...	1016	31	40	3.0
JUN				
02...	1404	137	32	7.5
29...	1219	113	32	9.5
AUG				
25...	1140	11	62	12.0
SEP				
15...	1210	6.7	71	9.0

MISCELLANEOUS STATION ANALYSES--Continued

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)
OCT 1997				
07...	0945	3.1	209	4.0
NOV				
03...	1030	2.6	218	.5
JAN 1998				
29...	1000	3.3	273	.0
MAR				
11...	1005	3.6	302	.0
31...	1240	4.5	496	.0
MAY 1998				
13...	1029	20	214	3.0
JUN				
02...	1120	85	104	7.0
30...	0925	37	110	7.0
AUG				
25...	0953	4.6	207	10.5
SEP				
16...	0847	6.4	206	6.5

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)
OCT 1997				
06...	1111	3.6	63	4.5
NOV				
03...	1235	3.1	63	.0
JAN 1998				
28...	1126	.88	74	.0
MAR				
10...	1435	.63	73	.0
APR				
01...	0943	1.5	72	.0
MAY 1998				
12...	1207	16	45	4.0
JUN				
03...	1650	66	32	5.5
29...	1400	42	30	9.5
AUG				
24...	1348	4.9	54	12.5
SEP				
15...	1339	2.1	64	9.0

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)
OCT 1997				
06...	1205	5.9	70	5.0
MAR 1998				
10...	1310	1.0	93	.5
10...	1337	1.0	93	.5
31...	1754	1.7	101	.0
31...	1800	1.7	101	.0
MAY				
12...	1400	14	67	5.5
JUN 1998				
02...	1540	68	33	6.0
30...	1500	69	33	9.0
AUG				
24...	1230	4.5	76	10.0
SEP				
15...	1044	3.7	83	6.5

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)
OCT 1997				
06...	1306	3.6	85	8.0
NOV				
03...	1421	3.4	83	2.0
JAN 1998				
28...	1015	.75	122	.0
MAR				
10...	1250	.73	133	1.0
APR				
01...	1155	2.0	136	3.0
MAY 1998				
12...	1510	18	101	6.5
JUN				
03...	1514	83	41	6.4
30...	1106	41	38	7.5
AUG				
24...	1508	2.0	110	14.0
SEP				
15...	1435	1.3	127	13.0

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)
OCT 1997				
06...	1509	1.2	213	8.0
NOV				
04...	1030	1.3	196	.5
JAN 1998				
29...	1255	.44	228	1.0
MAR				
10...	1148	.28	231	.5
APR				
01...	1254	.42	230	2.5
MAY 1998				
13...	1300	6.3	207	5.0
JUN				
03...	1000	34	98	3.3
30...	1323	26	101	9.0
AUG				
25...	1555	1.5	213	12.5
SEP				
15...	1546	.84	224	12.0

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
09066310 GORE CREEK, LOWER STATION, AT VAIL, CO (LAT 39 38 28N LONG 106 23 37W)				
OCT 1997				
07...	1145	36	239	7.5
NOV				
04...	1134	23	285	2.5
JAN 1998				
29...	1415	21	367	.0
MAR				
11...	1220	14	390	1.5
APR				
01...	1512	28	330	7.0
MAY 1998				
13...	1351	164	164	9.0
JUN				
03...	1246	577	90	8.5
JUL				
01...	0950	374	93	9.0
AUG				
25...	1400	42	244	15.0
SEP				
16...	1028	34	243	9.0
09066400 RED SANDSTONE CREEK NEAR MINTURN, CO (LAT 39 40 58N LONG 106 24 03W)				
OCT 1997				
15...	1625	4.1	81	1.6
DEC				
01...	1700	1.9	78	.0
JAN 1998				
13...	1710	.83	97	.0
APR				
16...	1520	1.9	92	.7
MAY 1998				
27...	1630	47	51	4.0
JUN				
24...	1815	25	52	8.0
AUG				
05...	1600	3.8	83	11.0
SEP				
09...	1755	1.3	111	10.5
09067000 BEAVER CREEK AT AVON, CO (LAT 39 37 47N LONG 106 31 20W)				
OCT 1997				
07...	1415	7.9	219	10.0
NOV				
18...	1350	4.6	310	.0
JAN 1998				
06...	1430	3.2	308	.5
FEB				
18...	1350	2.5	330	1.0
APR				
07...	1105	4.0	441	2.0
MAY 1998				
14...	1444	34	213	6.5
JUN				
02...	1615	82	94	8.5
JUL				
07...	1305	43	81	11.5
AUG				
17...	1615	9.6	193	14.0
09067200 LAKE CREEK NEAR EDWARDS, CO (LAT 39 38 51N LONG 106 36 31W)				
OCT 1997				
08...	0820	45	406	7.5
JAN 1998				
06...	1640	16	514	2.0
FEB				
18...	1620	13	496	2.0
APR				
07...	1300	17	522	6.5
MAY 1998				
14...	1540	77	243	7.0
JUN				
03...	0920	293	135	4.5
JUL				
07...	1555	149	175	11.5
AUG				
20...	1035	47	335	12.0
09070000 EAGLE RIVER BELOW GYPSUM, CO (LAT 39 38 58N LONG 106 57 11W)				
OCT 1997				
08...	1005	394	766	9.0
NOV				
19...	0950	284	874	.5
JAN 1998				
07...	0945	147	1000	.0
FEB				
17...	1455	207	956	4.0
APR 1998				
06...	1440	269	915	8.5
JUN				
03...	1020	2450	183	8.0
JUL				
08...	0750	1200	338	12.0
09073400 ROARING FORK RIVER NEAR ASPEN, CO (LAT 39 10 48N LONG 106 48 05W)				
OCT 1997				
07...	1110	44	88	8.0
DEC				
15...	1500	39	86	.3
JAN 1998				
27...	1500	40	90	.6
MAR				
11...	0910	24	94	.1
JUN 1998				
03...	1100	341	37	5.5
JUL				
01...	0740	245	37	9.2
AUG				
20...	0856	53	76	10.6

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
09074000 HUNTER CREEK NEAR ASPEN, CO (LAT 39 12 21N LONG 106 47 49W)				
OCT 1997				
23...	1020	17	53	1.1
DEC				
16...	0910	7.3	67	.0
JAN 1998				
28...	0950	6.9	73	.0
MAR				
11...	1440	6.2	75	.1
JUN 1998				
03...	0750	348	22	2.3
JUL				
01...	1235	55	32	11.3
AUG				
12...	1825	35	46	14.3
09080400 FRYINGPAN RIVER NEAR RUEDI, CO (LAT 39 21 56N LONG 106 49 30W)				
OCT 1997				
23...	1340	189	179	9.5
DEC				
16...	1220	154	202	5.8
JAN 1998				
28...	1210	151	246	3.9
MAR				
10...	1450	200	260	3.4
JUN 1998				
01...	1155	739	225	4.9
30...	1730	119	205	7.5
AUG				
13...	0854	127	197	7.2
09085100 COLORADO RIVER BELOW GLENWOOD SPRINGS, CO (LAT 39 33 18N LONG 107 20 13W)				
OCT 1997				
06...	1315	3020	605	12.5
NOV				
17...	1505	1820	760	3.0
JAN 1998				
05...	1400	2030	668	1.5
FEB				
17...	1050	1940	700	3.5
APR				
01...	1235	2550	612	6.5
MAY 1998				
20...	1425	8180	299	10.0
JUN				
01...	1615	12100	251	11.5
JUL				
06...	1335	6650	330	14.0
AUG				
18...	1600	2710	670	18.5
09089500 WEST DIVIDE CREEK NEAR RAVEN, CO (LAT 39 19 52N LONG 107 34 46W)				
OCT 1997				
08...	1735	22	314	6.5
NOV				
20...	0925	12	381	.0
JAN 1998				
08...	0935	7.4	414	.0
FEB				
19...	0955	3.7	474	.0
APR 1998				
08...	1030	33	402	1.5
MAY				
06...	1145	534	254	4.5
JUL				
06...	1125	112	180	13.0
AUG				
06...	1500	14	356	20.5
09106150 COLORADO RIVER BELOW GRAND VALLEY DIVERSION NEAR PALISADE CO (LAT 39 05 55N LONG 108 21 16W)				
OCT 1997				
10...	1040	2630	796	10.9
NOV				
21...	0920	2520	924	3.0
JAN 1998				
12...	1335	2350	917	2.7
FEB				
27...	1400	2220	980	3.5
APR 1998				
09...	1415	2090	838	10.0
JUN				
04...	1240	12200	336	11.5
JUL				
08...	1600	5070	492	19.5
AUG				
24...	1345	1460	833	23.0
09107000 TAYLOR RIVER AT TAYLOR PARK, CO (LAT 38 50 59N LONG 106 34 21W)				
OCT 1997				
20...	1330	78	114	5.1
NOV				
17...	1450	66	120	.0
JAN 1998				
21...	1100	39	122	.0
APR				
09...	0950	38	111	.0
JUN 1998				
02...	1240	353	67	7.7
30...	1110	255	91	10.6
AUG				
12...	0930	97	116	8.8

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
09109000 TAYLOR RIVER BELOW TAYLOR PARK RESERVOIR, CO (LAT 38 49 06N LONG 106 36 31W)				
OCT 1997				
20...	1425	96	98	8.5
NOV				
17...	1600	100	98	3.2
JAN 1998				
21...	1310	87	88	3.1
JUN 1998				
02...	1420	256	99	5.7
30...	1220	269	95	8.3
AUG				
12...	1035	300	95	10.1
09113100 CASTLE CREEK ABOVE MOUTH NEAR BALDWIN, CO (LAT 38 46 09N LONG 107 05 02W)				
OCT 1997				
21...	0825	11	76	.0
DEC				
17...	1615	5.4	87	.0
APR 1998				
08...	1030	7.5	95	.4
JUN 1998				
03...	1610	102	49	11.1
JUL				
01...	1555	88	41	14.5
AUG				
11...	1400	14	68	12.4
09115500 TOMICHI CREEK AT SARGENTS, CO (LAT 38 23 42N LONG 106 25 19W)				
OCT 1997				
22...	1545	36	177	7.5
DEC				
17...	1350	29	157	.0
FEB 1998				
18...	1230	6.3	157	.1
APR 1998				
08...	1505	41	162	6.0
JUN				
03...	1900	309	101	13.0
JUL				
01...	1050	72	150	14.8
09118450 COCHETOPA CREEK BELOW ROCK CREEK NEAR PARLIN, CO (LAT 38 20 08N LONG 106 46 18W)				
OCT 1997				
22...	1330	50	167	3.7
FEB 1998				
18...	1405	21	207	.0
APR				
06...	1545	51	217	3.4
JUN 1998				
03...	1950	75	126	16.1
JUL				
01...	1225	33	278	15.4
AUG				
11...	1730	65	205	16.2
09124500 LAKE FORK AT GATEVIEW, CO (LAT 38 17 56N LONG 107 13 46W)				
OCT 1997				
16...	1045	188	151	3.8
DEC				
17...	0925	67	172	.0
FEB 1998				
18...	1615	58	171	.0
JUN 1998				
01...	1530	872	120	13.4
29...	1630	872	96	15.4
AUG				
12...	1720	200	144	18.6
09126000 CIMARRON RIVER NEAR CIMARRON, CO (LAT 38 15 26N LONG 107 32 46W)				
OCT 1997				
08...	0945	42	137	7.7
DEC				
16...	1515	15	135	1.4
FEB 1998				
17...	1355	15	128	2.5
APR				
21...	1055	19	137	2.7
MAY 1998				
12...	1055	154	120	3.2
JUN				
01...	1230	537	95	7.8
29...	1220	420	84	10.8
AUG				
10...	1510	145	94	11.7
09132500 NORTH FORK GUNNISON RIVER NEAR SOMERSET, CO (LAT 38 55 33N LONG 107 26 01W)				
OCT 1997				
07...	1250	413	180	12.8
NOV				
18...	1030	156	183	1.3
JAN 1998				
14...	1255	72	205	.2
FEB				
18...	1055	112	209	.0
APR				
17...	0920	539	222	3.2
MAY 1998				
20...	1055	3060	119	7.4
JUN				
16...	1120	1200	106	10.1
JUL				
21...	1050	285	168	16.8
AUG				
25...	0940	219	164	12.1

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
09134000 MINNESOTA CREEK NEAR PAONIA, CO (LAT 38 52 13N LONG 107 30 06W)				
OCT 1997				
07...	1440	11	310	12.8
NOV				
18...	1220	8.4	450	.8
JAN 1998				
14...	1015	4.4	520	.2
FEB				
18...	1300	4.8	600	1.7
APR				
15...	1000	15	758	2.3
MAY 1998				
20...	1320	97	202	10.0
JUN				
24...	0950	42	207	7.7
JUL				
21...	1245	29	239	16.9
AUG				
07...	1255	19	266	18.8
25...	1130	25	198	16.7
09135950 NORTH FORK GUNNISON RIVER BELOW LEROUX CREEK NEAR HOTCHKISS, CO (LAT 38 47 18N LONG 107 44 21W)				
OCT 1997				
07...	1635	446	598	15.0
JUL 1998				
02...	1105	1220	303	15.5
21...	1435	148	1030	25.4
AUG 1998				
07...	1035	145	1230	18.0
25...	1405	101	1540	22.7
09143000 SURFACE CREEK NEAR CEDAREDGE, CO (LAT 38 59 05N LONG 107 51 13W)				
OCT 1997				
08...	0910	31	106	2.3
NOV				
18...	1435	11	136	.2
FEB 1998				
20...	1050	6.7	142	.0
MAY				
21...	0950	308	88	2.8
22...	1055	255	85	3.3
JUN 1998				
19...	1040	109	76	7.1
JUL				
23...	1110	68	71	12.1
AUG				
26...	0845	52	68	13.3
09143500 SURFACE CREEK AT CEDAREDGE, CO (LAT 38 54 06N LONG 107 55 14W)				
OCT 1997				
08...	1050	39	131	6.3
NOV				
18...	1550	11	172	.3
JAN 1998				
14...	1615	4.8	188	.4
FEB				
18...	1535	5.4	184	2.3
APR				
17...	1300	29	188	3.0
MAY 1998				
21...	1250	203	106	7.3
JUN				
19...	1255	33	96	11.5
JUL				
23...	1305	41	83	16.0
AUG				
26...	1025	27	96	15.0
09144250 GUNNISON RIVER AT DELTA, CO (LAT 38 45 01N LONG 108 04 06W)				
OCT 1997				
08...	1510	2510	880	12.9
NOV				
19...	1150	2580	597	6.7
JAN 1998				
15...	1055	1900	597	1.9
FEB				
19...	1105	1750	571	3.1
MAR				
09...	1500	1080	585	5.8
19...	1405	1540	707	5.4
APR 1998				
13...	1210	2350	462	7.4
MAY				
05...	0945	5780	275	7.3
28...	1135	5820	354	10.7
JUN				
25...	1305	2290	510	15.4
JUL				
22...	1055	900	757	19.5
AUG				
26...	1255	996	840	18.6
09147000 DALLAS CREEK NEAR RIDGWAY, CO (LAT 38 10 40N LONG 107 45 28W)				
OCT 1997				
06...	1210	48	406	9.7
NOV				
17...	1140	28	638	.2
JAN 1998				
13...	1130	26	596	.2
FEB				
17...	1140	19	626	2.9
APR				
14...	1140	44	450	4.4
MAY 1998				
19...	1125	2.1	1040	13.7
JUN				
23...	1115	42	626	12.8
JUL				
09...	1300	125	523	12.1
22...	1150	54	629	16.3
AUG				
24...	1150	20	790	17.0

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
09147025 UNCOMPAHGRE RIVER BELOW RIDGWAY RESERVOIR, CO (LAT 38 14 17N LONG 107 45 31W)				
OCT 1997				
06...	1530	338	453	14.0
29...	1215	295	470	10.8
NOV				
06...	1155	118	483	10.4
17...	1410	75	497	8.5
JAN 1998				
13...	1430	41	564	3.8
FEB				
17...	1415	41	583	3.8
APR				
14...	1445	343	580	4.3
MAY 1998				
05...	1425	439	565	5.8
JUN				
03...	1325	233	534	7.6
23...	1355	170	498	9.1
JUL				
14...	1430	544	435	10.0
AUG				
24...	1425	298	396	11.8
09147500 UNCOMPAHGRE RIVER AT COLONA, CO (LAT 38 19 53N LONG 107 46 44W)				
OCT 1997				
07...	0800	360	478	12.1
NOV				
17...	1530	102	555	8.0
JAN 1998				
13...	1535	63	617	3.7
FEB				
17...	1530	60	606	5.6
APR				
14...	1530	435	575	7.6
MAY 1998				
19...	1415	602	450	9.3
JUN				
23...	1430	344	390	14.6
JUL				
22...	1235	299	470	15.3
AUG				
24...	1505	249	457	16.3
09149500 UNCOMPAHGRE RIVER AT DELTA, CO (LAT 38 44 31N LONG 108 04 49W)				
OCT 1997				
08...	1315	889	976	12.0
NOV				
19...	0930	299	1610	3.8
JAN 1998				
12...	1430	175	1710	5.8
FEB				
19...	0930	151	1730	2.5
APR				
13...	1120	655	767	7.6
MAY 1998				
21...	1450	573	916	16.3
JUN				
24...	1155	140	1580	15.5
JUL				
23...	1005	176	1660	18.6
AUG				
26...	1205	349	1470	18.7
09166500 DOLORES RIVER AT DOLORES, CO (LAT 37 28 21N LONG 108 29 49W)				
OCT 1997				
01...	1050	212	300	11.0
NOV				
19...	1230	132	414	.5
JAN 1998				
14...	1020	73	435	.0
FEB				
25...	1515	59	440	.0
MAR				
25...	0830	522	300	1.5
MAY 1998				
04...	1005	2410	180	3.0
JUN				
03...	0730	2380	137	6.4
JUL				
14...	1215	284	263	18.0
AUG				
18...	0845	150	330	16.5
09166950 LOST CANYON CREEK NEAR DOLORES, CO (LAT 37 26 45N LONG 108 28 03W)				
OCT 1997				
01...	1035	.10	500	15.0
NOV				
19...	1330	4.1	152	2.0
JAN 1998				
14...	0930	3.6	145	.0
FEB				
25...	1510	3.6	153	.0
MAR 1998				
25...	1000	129	88	1.0
MAY				
04...	0715	379	52	2.0
JUN				
23...	1405	.43	284	22.5
AUG				
18...	1130	1.0	455	19.5

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
09168730 DOLORES RIVER NEAR SLICK ROCK, CO (LAT 38 02 40N LONG 108 54 17W)				
FEB 1998				
25...	1200	53	784	4.5
APR				
01...	1020	149	882	6.5
06...	1230	1130	390	6.5
MAY 1998				
06...	1045	3350	300	6.5
26...	1045	1620	295	10.0
JUL				
07...	1145	108	280	23.5
09172500 SAN MIGUEL RIVER NEAR PLACERVILLE, CO (LAT 38 02 05N LONG 108 07 15W)				
OCT 1997				
06...	1210	159	390	10.0
NOV				
19...	0950	120	385	.0
JAN 1998				
14...	1310	86	375	.0
MAR				
04...	1000	76	367	1.5
APR				
08...	0930	127	436	2.0
MAY 1998				
28...	1045	784	240	6.5
JUN				
03...	1120	1000	201	7.3
JUL				
09...	0930	561	218	9.5
AUG				
06...	0820	180	315	10.5
SEP				
04...	1000	138	362	13.0
09174600 SAN MIGUEL RIVER AT BROOKS BRIDGE NEAR NUCLA, CO (LAT 38 14 39N LONG 108 30 05W)				
OCT 1997				
06...	1330	183	384	14.5
NOV				
19...	0745	128	421	.0
JAN 1998				
14...	1530	162	410	.0
MAR				
04...	0800	95	426	1.5
APR				
06...	1700	489	309	7.0
MAY 1998				
07...	0715	1290	250	6.0
28...	0740	970	255	10.5
JUL				
09...	0715	511	240	14.0
AUG				
04...	1620	130	350	22.5
SEP				
04...	0815	62	408	17.5
09177000 SAN MIGUEL RIVER AT URAVAN, CO (LAT 38 21 26N LONG 108 42 44W)				
OCT 1997				
06...	1500	222	746	18.0
NOV				
18...	1730	179	736	2.0
JAN 1998				
14...	1645	138	745	1.0
MAR				
03...	1650	150	842	8.0
APR				
06...	1345	739	443	7.0
MAY 1998				
06...	1425	2120	310	9.0
26...	1400	1270	370	13.5
JUL				
07...	1345	666	330	18.5
AUG				
04...	1330	205	680	22.0
SEP				
03...	1830	134	856	25.0
09237450 YAMPA RIVER ABOVE STAGECOACH RESERVOIR, CO (LAT 40 16 09N LONG 106 52 49W)				
OCT 1997				
07...	0900	112	321	8.5
NOV				
13...	1350	90	375	2.0
MAR 1998				
25...	0936	247	337	2.0
APR				
06...	1445	146	508	3.0
MAY				
05...	1446	306	393	8.5
JUN 1998				
11...	1500	120	506	13.5
24...	1305	131	493	14.5
JUL				
14...	1320	108	502	19.0
AUG				
17...	1455	81	410	18.5
SEP				
22...	0910	44	471	7.5

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
09237500 YAMPA RIVER BELOW STAGECOACH RESERVOIR, CO (LAT 40 17 15N LONG 106 49 33W)				
OCT 1997				
07...	1000	115	381	13.5
NOV				
13...	1225	98	386	5.5
JAN 1998				
08...	1015	93	380	2.5
MAR				
03...	1028	94	376	4.0
APR				
06...	1343	102	409	3.0
MAY 1998				
05...	0935	325	390	7.0
28...	1920	123	402	9.0
JUN				
11...	1615	126	398	10.5
JUL				
14...	1210	108	420	14.0
AUG				
17...	1555	103	428	16.0
SEP				
22...	1010	87	430	14.5
09238900 FISH CREEK AT UPPER STATION NEAR STEAMBOAT SPRINGS, CO (LAT 40 28 30N LONG 106 47 11W)				
OCT 1997				
07...	1121	38	23	6.5
NOV				
17...	0950	32	22	.0
MAR 1998				
10...	1130	13	28	.5
APR				
08...	1300	13	3	2.5
MAY 1998				
11...	1635	129	23	3.0
28...	1745	415	17	4.0
JUL				
14...	1040	61	19	12.0
AUG				
17...	1735	4.2	27	15.5
SEP				
22...	1140	32	19	9.5
09240900 ELK RIVER ABOVE CLARK, CO (LAT 40 44 36N LONG 106 51 17W)				
MAY 1998				
11...	1245	589	56	4.0
29...	0845	1260	36	3.0
JUN				
08...	1220	884	35	3.0
AUG 1998				
17...	1100	131	63	12.0
SEP				
22...	1530	58	82	10.5
09241000 ELK RIVER AT CLARK, CO (LAT 40 43 03N LONG 106 54 55W)				
MAY 1998				
11...	1420	1090	68	5.5
29...	1025	1460	45	5.5
AUG				
17...	0955	128	67	12.5
SEP 1998				
22...	1710	93	82	11.5
09242500 ELK RIVER NEAR MILNER, CO (LAT 40 30 53N LONG 106 57 12W)				
OCT 1997				
07...	1405	311	94	11.0
JAN 1998				
26...	1205	129	174	.0
MAR				
25...	1313	326	202	1.5
APR				
06...	1135	626	289	2.5
MAY 1998				
01...	0835	2190	72	7.0
28...	1535	2460	60	10.5
JUN				
16...	1255	1690	187	8.0
AUG				
17...	0815	177	95	15.5
SEP				
22...	1355	100	119	15.0
09243700 MIDDLE CREEK NEAR OAK CREEK, CO (LAT 40 23 08N LONG 106 59 33W)				
OCT 1997				
15...	0930	1.8	793	2.5
NOV				
19...	1040	1.2	878	.5
JAN 1998				
13...	1035	1.3	856	.0
MAR				
05...	1058	1.7	850	.5
APR				
09...	0900	15	599	3.5
MAY 1998				
08...	1125	77	500	8.0
JUN				
11...	1105	8.7	688	12.5
JUL				
15...	1140	4.8	503	19.5
AUG				
18...	0825	1.2	835	14.5
SEP				
24...	1025	.67	909	11.5

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
09243800 FOIDEL CREEK NEAR OAK CREEK, CO (LAT 40 20 45N LONG 107 05 04W)				
OCT 1997				
15...	1105	1.5	2800	5.0
NOV				
19...	1215	1.1	2920	1.0
JAN 1998				
13...	1210	.70	3020	.5
MAR				
05...	1301	.73	2710	.5
APR				
09...	1225	8.2	1390	6.0
MAY 1998				
08...	1440	21	2030	12.5
JUN				
11...	1355	6.3	2760	15.0
JUL				
15...	1015	1.2	3040	17.5
AUG				
18...	0945	.45	3180	15.0
SEP				
24...	0855	.38	3130	9.5
09243900 FOIDEL CREEK AT MOUTH, NEAR OAK CREEK, CO (LAT 40 23 25N LONG 106 59 39W)				
OCT 1997				
15...	0840	1.7	2650	3.0
NOV				
19...	0845	1.3	2580	.0
JAN 1998				
13...	0925	1.5	3020	.0
MAR				
05...	0945	1.5	2550	.0
APR				
08...	1445	25	1240	8.0
MAY 1998				
05...	1605	27	1920	14.5
08...	1255	33	1940	10.5
JUN				
11...	1235	14	2350	13.0
AUG				
18...	0735	1.4	2290	14.0
SEP				
24...	0945	.59	2780	10.5
09249750 WILLIAMS FORK RIVER AT MOUTH, NEAR HAMILTON, CO (LAT 40 26 14N LONG 107 38 50W)				
OCT 1997				
01...	1326	151	456	14.1
DEC				
15...	1020	67	682	.0
FEB 1998				
27...	1405	91	603	.1
MAR				
31...	0936	241	720	2.5
MAY				
27...	1250	1140	300	10.9
JUL				
08...	1101	256	434	19.0
AUG 1998				
24...	1001	79	589	20.1
27...	1021	74	591	19.2
SEP				
01...	1225	64	648	19.8
08...	1103	51	667	21.4
15...	0844	62	671	13.9
16...	1355	62	686	17.2
17...	1338	60	695	19.8
09253000 LITTLE SNAKE RIVER NEAR SLATER, CO (LAT 40 59 58N LONG 107 08 34W)				
OCT 1997				
14...	1050	74	134	2.0
NOV				
18...	1045	79	151	.0
JAN 1998				
21...	1245	48	174	.0
MAR				
02...	1159	44	180	.5
APR				
01...	1140	118	163	4.0
MAY 1998				
12...	1115	929	87	5.0
JUN				
01...	1105	1260	56	7.5
JUL				
20...	1615	119	107	24.5
AUG				
20...	1050	55	143	15.5
SEP				
23...	0845	35	170	9.5
09255000 SLATER FORK NEAR SLATER, CO (LAT 40 58 54N LONG 107 22 58W)				
OCT 1997				
14...	0910	48	214	1.5
NOV				
18...	0905	28	252	.0
JAN 1998				
21...	0950	28	247	.0
MAR				
02...	0950	33	258	.0
26...	1223	158	243	1.5
APR 1998				
01...	0940	41	304	2.0
MAY				
12...	0850	473	136	3.5
AUG				
20...	1125	12	252	19.5
SEP				
23...	1000	8.3	323	13.5

MISCELLANEOUS STATION ANALYSES--Continued

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)
09304500 WHITE RIVER NEAR MEEKER, CO (LAT 40 02 01N LONG 107 51 42W)									
OCT 1997					JUL 1998				
07...	1402	692	375	11.1	10...	0855	1090	347	12.5
DEC					AUG				
12...	1245	328	330	.0	14...	1520	499	423	18.7
FEB 1998					SEP				
27...	1555	380	530	2.0	03...	1350	358	484	18.0
APR					30...	1607	442	473	14.4
24...	0905	1090	360	8.1					
JUN									
04...	1833	2990	234	11.2					
09340800 WEST FORK SAN JUAN RIVER AT WEST FORK CAMPGROUND NEAR PAGOSA SPRINGS, CO (LAT 37 27 01N LONG 106 54 40W)									
OCT 1997					AUG 1998				
02...	1200	95	46	7.5	25...	1300	50	49	13.5
MAY 1998					SEP				
11...	1045	198	43	3.5	17...	1315	31	55	11.5
29...	0850	433	34	3.0					
JUL									
09...	1000	200	36	9.5					
09341300 WOLF CREEK AT WOLF CREEK CAMPGROUND NEAR PAGOSA SPRINGS, CO (LAT 37 26 31N LONG 106 53 11W)									
OCT 1997					JUL 1998				
02...	1100	23	49	7.5	09...	0845	60	44	10.0
MAY 1998					AUG				
04...	1345	106	51	5.0	25...	1415	6.0	57	15.5
29...	1015	213	30	4.0					
09341500 WEST FORK SAN JUAN RIVER NEAR PAGOSA SPRINGS, CO (LAT 37 23 31N LONG 106 54 24W)									
OCT 1997					JUL 1998				
02...	1045	137	56	8.0	09...	1215	269	42	10.5
MAR 1998					AUG				
24...	0900	103	72	1.0	25...	1145	67	60	15.5
MAY									
11...	1215	401	55	3.5					
29...	0650	884	40	3.2					
09342500 SAN JUAN RIVER AT PAGOSA SPRINGS, CO (LAT 37 15 58N LONG 107 00 37W)									
OCT 1997					MAY 1998				
02...	0915	275	102	9.0	08...	0945	1040	91	3.5
DEC					JUN				
22...	1200	101	140	1.0	02...	0720	2100	64	4.0
JAN 1998					JUL				
21...	0905	58	164	.0	08...	1430	421	83	16.0
MAR					AUG				
05...	1005	68	169	.5	28...	1345	114	135	20.0
26...	1325	628	115	3.0					
09346400 SAN JUAN RIVER NEAR CARRACAS, CO (LAT 37 00 49N LONG 107 18 42W)									
OCT 1997					JUN 1998				
02...	1415	369	193	15.5	02...	1215	2220	78	9.7
MAR 1998					JUL				
05...	1300	242	511	5.0	08...	1125	553	160	19.5
26...	1000	1530	228	5.5	AUG				
MAY					26...	1200	202	240	24.0
08...	1230	1440	142	10.0					

MISCELLANEOUS STATION ANALYSES--Continued

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)
09349800 PIEDRA RIVER NEAR ARBOLES, CO (LAT 37 05 18N LONG 107 23 50W)									
OCT 1997					APR 1998				
02...	1405	356	219	14.5	16...	1220	532	297	5.0
DEC					JUN				
16...	1000	98	130	.0	02...	1015	1420	107	9.5
JAN 1998					JUL				
21...	1040	90	423	.0	08...	1245	331	237	19.5
MAR					AUG				
05...	1145	99	469	6.0	26...	1330	248	225	22.0
09352900 VALLECITO CREEK NEAR BAYFIELD, CO (LAT 37 28 39N LONG 107 32 35W)									
OCT 1997					MAY 1998				
15...	1315	161	61	4.0	13...	1215	286	70	4.5
DEC					JUN				
17...	1330	38	82	.0	02...	1600	611	51	9.0
FEB 1998					JUL				
19...	1505	22	90	.0	10...	1035	472	39	8.5
APR					AUG				
02...	1445	58	69	2.5	19...	1145	67	68	10.5
09354500 LOS PINOS RIVER AT LA BOCA, CO (LAT 37 00 34N LONG 107 35 56W)									
OCT 1997					APR 1998				
03...	1030	533	125	13.5	16...	1015	334	183	4.0
DEC					MAY				
16...	1235	141	161	.5	20...	1200	145	235	15.5
JAN 1998					JUL				
21...	1330	68	209	.5	08...	0925	269	249	19.0
MAR					SEP				
05...	1430	157	227	8.5	01...	1445	194	230	21.5
09355000 SPRING CREEK AT LA BOCA, CO (LAT 37 00 40N LONG 107 35 47W)									
OCT 1997					APR 1998				
03...	0925	41	309	13.0	16...	0915	3.1	942	4.0
DEC					MAY				
16...	1355	4.3	1140	.5	20...	0920	32	310	13.0
JAN 1998					JUL				
21...	1500	6.5	1050	.0	08...	0830	86	320	19.0
MAR					SEP				
05...	1610	3.5	1030	10.0	01...	1400	75	277	20.0
09358000 ANIMAS RIVER AT SILVERTON, CO (LAT 37 48 40N LONG 107 39 32W)									
OCT 1997					JUN 1998				
22...	1430	115	245	7.0	03...	0730	621	115	2.5
NOV					24...	1145	485	114	5.5
25...	1515	44	295	2.3	JUL				
MAR 1998					09...	1450	325	133	10.0
16...	1430	25	406	4.5	22...	1400	141	190	14.5
APR					AUG				
09...	1430	33	390	6.0	31...	1345	59	272	12.5
MAY									
06...	1115	168	205	4.0					
29...	1300	449	127	8.0					
09358550 CEMENT CREEK AT SILVERTON, CO (LAT 37 49 11N LONG 107 39 47W)									
OCT 1997					MAY 1998				
22...	1510	27	672	7.5	06...	1430	61	437	7.4
NOV					29...	1530	184	210	8.5
26...	0945	17	918	2.8	JUN				
DEC					03...	1000	168	210	4.0
23...	1445	15	1010	7.7	JUL				
FEB 1998					09...	1615	71	375	11.0
12...	1700	15	967	3.5	22...	1545	39	607	14.0
MAR					AUG				
16...	1515	13	1110	6.0	31...	1530	17	945	12.5
APR									
09...	1130	15	1050	5.0					

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
09359010 MINERAL CREEK AT SILVERTON, CO (LAT 37 48 10N LONG 107 40 20W)				
OCT 1997				
22...	1245	83	310	4.5
NOV				
25...	1100	39	429	.0
DEC				
23...	1230	15	505	.0
FEB 1998				
13...	1430	29	505	3.0
MAR				
16...	1230	19	616	4.0
MAY 1998				
05...	1345	157	212	5.0
28...	1545	424	142	9.0
JUN				
02...	1830	618	115	6.5
JUL				
22...	1430	119	216	12.0
AUG				
31...	1500	61	315	13.0
09361500 ANIMAS RIVER AT DURANGO, CO (LAT 37 16 45N LONG 107 52 47W)				
OCT 1997				
28...	1320	579	390	6.0
NOV				
25...	1530	308	510	4.5
JAN 1998				
21...	1400	208	560	3.0
FEB				
26...	1415	229	588	4.5
MAR				
25...	1330	717	351	8.0
APR				
27...	1515	1040	329	8.0
MAY 1998				
27...	1510	2820	192	8.2
JUN				
29...	1440	2150	173	13.0
JUL				
29...	1135	897	307	15.0
AUG				
27...	1115	461	420	16.5
SEP				
30...	1000	294	609	12.8
09362550 WILSON GULCH NEAR DURANGO, CO (LAT 37 13 37N LONG 107 50 31W)				
OCT 1997				
10...	1200	2.2	565	11.0
DEC				
17...	1540	.92	660	4.0
FEB 1998				
19...	1300	.79	730	5.5
APR				
02...	0910	.89	725	5.5
MAY 1998				
18...	1045	1.3	660	13.0
JUL				
10...	1315	3.8	540	21.0
AUG				
19...	1310	2.1	501	19.0
09371000 MANCOS RIVER NEAR TOWAOC, CO (LAT 37 01 39N LONG 108 44 27W)				
OCT 1997				
30...	0945	53	1010	5.0
DEC				
19...	0950	18	990	.0
JAN 1998				
21...	1025	6.2	1610	.0
MAR				
11...	1400	14	2000	9.0
APR 1998				
29...	0930	119	550	9.5
MAY				
04...	1300	338	392	12.5
JUN				
23...	1220	4.6	1330	22.0
AUG				
11...	1015	.03	1450	22.0

LA PLATA COUNTY

371127107484801 NB03400915BDD1 SIMON

LOCATION.--Lat 37°11'27", long 107°48'48", in SE¼NW¼ 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.

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.

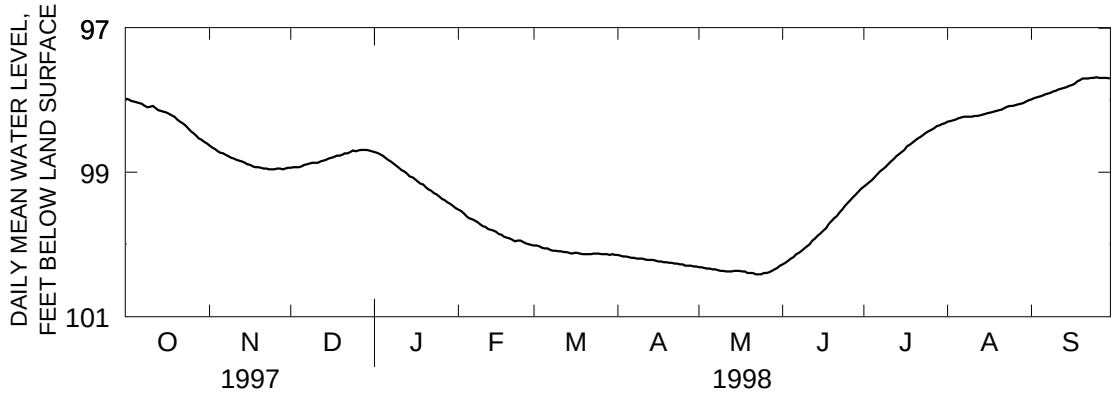
REMARKS.--Daily record is good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level 97.66 ft below land-surface datum, Sept. 25, 1998; lowest, 100.43 ft below land-surface datum, Mar. 22-24, 1998.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97.98	98.63	98.94	98.72	99.52	100.02	100.15	100.32	100.28	99.20	98.30	97.99
2	97.99	98.66	98.93	98.73	99.54	100.02	100.16	100.32	100.26	99.17	98.29	97.97
3	98.01	98.68	98.93	98.75	99.57	100.03	100.17	100.33	100.23	99.14	98.28	97.96
4	98.02	98.71	98.93	98.77	99.61	100.05	100.17	100.34	100.20	99.11	98.27	97.95
5	98.03	98.73	98.92	98.80	99.64	100.06	100.18	100.34	100.18	99.07	98.25	97.94
6	98.04	98.74	98.90	98.83	99.65	100.06	100.19	100.35	100.14	99.03	98.24	97.92
7	98.05	98.76	98.89	98.85	99.67	100.08	100.19	100.35	100.12	98.99	98.23	97.91
8	98.08	98.78	98.88	98.88	99.69	100.09	100.20	100.36	100.09	98.96	98.23	97.90
9	98.10	98.80	98.87	98.91	99.72	100.09	100.20	100.37	100.06	98.93	98.23	97.88
10	98.09	98.81	98.87	98.94	99.75	100.10	100.20	100.37	100.03	98.89	98.23	97.87
11	98.08	98.83	98.87	98.97	99.76	100.10	100.21	100.38	100.00	98.85	98.22	97.85
12	98.11	98.84	98.85	98.99	99.79	100.11	100.22	100.38	99.95	98.82	98.22	97.84
13	98.14	98.85	98.84	99.02	99.80	100.11	100.22	100.38	99.92	98.78	98.21	97.83
14	98.15	98.87	98.83	99.06	99.81	100.12	100.22	100.37	99.88	98.75	98.20	97.82
15	98.16	98.89	98.81	99.07	99.83	100.13	100.23	100.37	99.85	98.72	98.19	97.80
16	98.17	98.90	98.80	99.10	99.86	100.12	100.24	100.37	99.81	98.69	98.18	97.79
17	98.19	98.92	98.79	99.13	99.87	100.12	100.24	100.38	99.78	98.64	98.17	97.77
18	98.21	98.93	98.77	99.16	99.90	100.13	100.25	100.38	99.72	98.62	98.16	97.74
19	98.23	98.93	98.77	99.17	99.91	100.14	100.25	100.40	99.68	98.59	98.15	97.72
20	98.27	98.94	98.76	99.21	99.92	100.14	100.26	100.40	99.64	98.56	98.14	97.70
21	98.30	98.95	98.74	99.24	99.94	100.14	100.26	100.40	99.61	98.53	98.13	97.70
22	98.32	98.95	98.74	99.26	99.96	100.14	100.27	100.42	99.56	98.51	98.11	97.70
23	98.35	98.96	98.72	99.29	99.95	100.13	100.27	100.42	99.52	98.48	98.09	97.69
24	98.39	98.96	98.70	99.31	99.95	100.13	100.28	100.42	99.47	98.45	98.08	97.69
25	98.43	98.96	98.71	99.34	99.97	100.13	100.28	100.40	99.43	98.43	98.08	97.68
26	98.46	98.95	98.70	99.37	99.99	100.14	100.30	100.40	99.39	98.41	98.07	97.69
27	98.49	98.95	98.69	99.39	100.00	100.14	100.30	100.39	99.35	98.39	98.06	97.69
28	98.53	98.96	98.69	99.42	100.01	100.14	100.30	100.37	99.31	98.36	98.05	97.69
29	98.55	98.95	98.69	99.44	---	100.15	100.31	100.35	99.27	98.35	98.04	97.69
30	98.58	98.94	98.70	99.47	---	100.14	100.31	100.33	99.23	98.33	98.02	97.70
31	98.60	---	98.71	99.50	---	100.15	---	100.30	---	98.32	98.00	---
MEAN	98.23	98.86	98.80	99.10	99.81	100.11	100.23	100.37	99.80	98.71	98.17	97.80
MAX	98.60	98.96	98.94	99.50	100.01	100.15	100.31	100.42	100.28	99.20	98.30	97.99
MIN	97.98	98.63	98.69	98.72	99.52	100.02	100.15	100.30	99.23	98.32	98.00	97.68



LA PLATA COUNTY

371422107473301 NB03400807BBA1 ROYCE

LOCATION.--Lat 37°14'22", long 107°47'33", in NW¼NW¼ 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.

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.

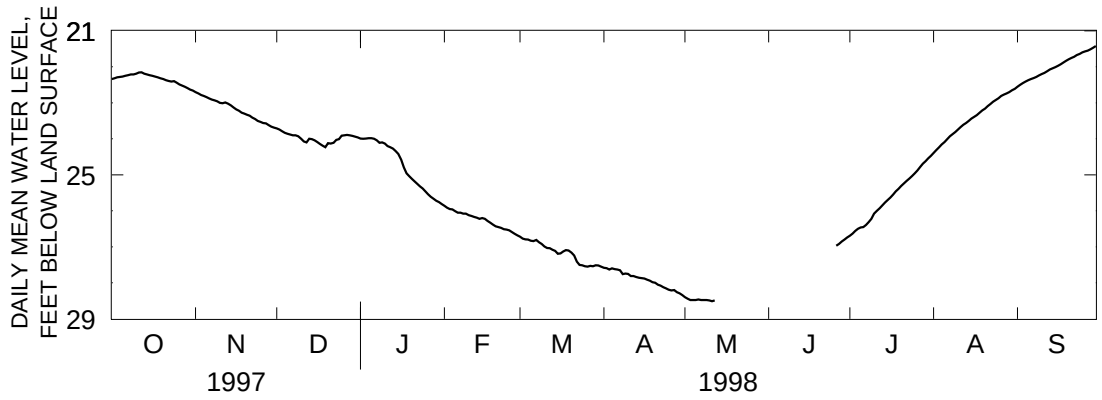
REMARKS.--Daily record is good, except for period of missing record. Missing record from May 13 to June 25 was due to recorder malfunction.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level 21.38 ft below land-surface datum, Sept. 30, 1998; lowest, 28.74 ft below land-surface datum, May 20, 1996.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.34	22.70	23.71	23.99	25.86	26.72	27.58	28.40	---	26.69	24.39	22.55
2	22.32	22.74	23.74	24.00	25.91	26.77	27.59	28.44	---	26.63	24.31	22.50
3	22.29	22.78	23.79	23.99	25.95	26.79	27.63	28.48	---	26.56	24.24	22.45
4	22.28	22.81	23.83	23.98	25.96	26.80	27.60	28.48	---	26.50	24.16	22.41
5	22.27	22.84	23.86	23.98	26.01	26.83	27.62	28.48	---	26.46	24.09	22.37
6	22.25	22.88	23.88	24.00	26.05	26.84	27.63	28.46	---	26.45	24.01	22.34
7	22.23	22.91	23.90	24.04	26.05	26.81	27.65	28.48	---	26.39	23.93	22.31
8	22.21	22.93	23.90	24.11	26.08	26.87	27.76	28.48	---	26.31	23.87	22.28
9	22.21	22.96	23.93	24.10	26.08	26.92	27.74	28.48	---	26.22	23.81	22.24
10	22.19	23.00	24.00	24.13	26.12	26.99	27.75	28.49	---	26.08	23.74	22.20
11	22.16	23.01	24.07	24.20	26.14	27.03	27.81	28.51	---	26.00	23.67	22.17
12	22.15	22.99	24.10	24.23	26.17	27.04	27.81	28.49	---	25.93	23.61	22.12
13	22.19	23.02	24.00	24.27	26.19	27.08	27.84	---	---	25.85	23.56	22.07
14	22.21	23.07	24.01	24.34	26.22	27.11	27.86	---	---	25.77	23.50	22.04
15	22.23	23.13	24.04	24.42	26.20	27.19	27.87	---	---	25.70	23.44	22.01
16	22.25	23.18	24.09	24.58	26.22	27.18	27.88	---	---	25.63	23.39	21.97
17	22.27	23.22	24.14	24.79	26.28	27.13	27.91	---	---	25.55	23.34	21.93
18	22.29	23.27	24.19	24.96	26.33	27.09	27.94	---	---	25.46	23.27	21.88
19	22.32	23.30	24.23	25.04	26.38	27.10	27.98	---	---	25.39	23.21	21.83
20	22.34	23.33	24.12	25.11	26.43	27.16	28.00	---	---	25.31	23.16	21.79
21	22.37	23.36	24.13	25.18	26.45	27.24	28.05	---	---	25.24	23.09	21.75
22	22.39	23.41	24.11	25.25	26.47	27.41	28.08	---	---	25.17	23.03	21.72
23	22.41	23.45	24.03	25.32	26.51	27.50	28.12	---	---	25.10	22.97	21.67
24	22.40	23.50	24.01	25.38	26.52	27.51	28.15	---	---	25.03	22.92	21.64
25	22.44	23.53	23.91	25.46	26.54	27.54	28.19	---	---	24.96	22.87	21.60
26	22.49	23.56	23.90	25.54	26.59	27.55	28.21	---	26.97	24.88	22.81	21.57
27	22.52	23.57	23.89	25.61	26.64	27.53	28.20	---	26.92	24.78	22.77	21.55
28	22.55	23.62	23.90	25.66	26.68	27.54	28.26	---	26.85	24.69	22.74	21.51
29	22.59	23.66	23.92	25.72	---	27.51	28.29	---	26.80	24.62	22.70	21.47
30	22.63	23.69	23.94	25.76	---	27.52	28.34	---	26.74	24.54	22.65	21.42
31	22.66	---	23.96	25.81	---	27.55	---	---	---	24.47	22.61	---
MEAN	22.34	23.18	23.98	24.74	26.25	27.16	27.91	---	---	25.62	23.41	21.98
MAX	22.66	23.69	24.23	25.81	26.68	27.55	28.34	---	---	26.69	24.39	22.55
MIN	22.15	22.70	23.71	23.98	25.86	26.72	27.58	---	---	24.47	22.61	21.42



UPPER GUNNISON RIVER WATER-QUALITY STUDY

A series of water-quality samples and discharge measurements were collected beginning April 15, 1995 to develop a long term data base for the East, Slate, and Upper Gunnison Rivers. The study purpose is to determine the present water-quality and establish a data base for determination of the effects of increased development in the drainages. The drainage area considered for the study is 2,073 mi^2 and the mainstem reach is 43 mi upstream from Crested Butte, CO to Gunnison, CO. Samples collected at gaging stations 09110000, Taylor River at Almont, CO; 09111500, Slate River at Crested Butte, CO; 09112200 East River below Cement Creek near Crested Butte, CO; 09112500, East River at Almont, CO; 09114500, Gunnison River near Gunnison, CO; 09119000, Tomichi Creek at Gunnison, CO; are published elsewhere in this report.

SLATE RIVER DRAINAGE

385429107013000 SLATE RIVER ABOVE OH-BE-JOYFUL CREEK, NEAR CRESTED BUTTE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°54'29", long 107°01'30", in SE¼NE¼ sec.20, T.13 S., R.86 W., Gunnison County, Hydrologic Unit 14020001, .2 mi upstream from confluence with Oh-Be-Joyful Creek, and 3.4 mi northwest of Crested Butte.

DRAINAGE AREA.--Not determined.

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

REMARKS.--No previous water-quality data prior to June 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV										
12...	1305	12	121	7.8	2.5	0.1	9.3	K1	55	19
APR										
30...	0930	21	130	7.7	1.0	--	10.2	<1	--	--
MAY										
27...	0815	154	82	7.6	4.0	0.9	9.7	<1	39	13
AUG										
25...	1015	11	123	7.9	12.0	--	7.5	14	--	--

DATE	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)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
NOV									
12...	1.7	<0.01	0.09	<0.02	<0.1	<0.1	<0.01	<0.01	0.02
APR									
30...	--	<0.01	0.18	0.02	<0.1	<0.1	<0.01	<0.01	0.02
MAY									
27...	1.3	<0.01	0.11	0.04	<0.1	<0.1	0.02	<0.01	<0.01
AUG									
25...	--	<0.01	0.07	0.03	<0.1	<0.1	<0.01	<0.01	<0.01

K-Based on non-ideal colony count.

UPPER GUNNISON RIVER WATER-QUALITY STUDY--Continued

385429107013000 SLATE RIVER ABOVE OH-BE-JOYFUL CREEK, NEAR CRESTED BUTTE, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	ZINC, DISSOLVED (UG/L AS ZN) (01090)
NOV							
12...	<10	<1	<1	10	<1	<10	<20
MAY							
27...	<10	<1	<1	180	<1	<10	<20

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
NOV					MAY				
12...	1305	12	0.6	0.02	27...	0815	154	7	2.8

UPPER GUNNISON RIVER WATER-QUALITY STUDY--Continued

385426107013400 OH-BE-JOYFUL CREEK ABOVE SLATE RIVER, NEAR CRESTED BUTTE, CO.

WATER-QUALITY RECORDS

LOCATION.--Lat 38°54'26", long 107°01'34", in SE¼NE¼ sec.20, T.13 S., R.86 W., Gunnison County, Hydrologic Unit 14020001, 0.1 mi upstream from mouth, and 3.4 mi northwest of Crested Butte.

DRAINAGE AREA.--Not determined.

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

REMARKS.--No previous water-quality data prior to August 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV										
12...	1430	8.7	77	7.8	0.0	0.2	10.3	K1	34	12
MAY										
27...	1115	99	46	7.6	4.5	0.5	9.3	K1	22	7.6

DATE	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)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
NOV									
12...	1.0	<0.01	0.10	<0.02	<0.1	<0.1	0.02	<0.01	<0.01
MAY									
27...	0.68	0.01	0.08	<0.02	<0.1	<0.1	0.01	<0.01	<0.01

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, 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)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV							
12...	40	1	2	30	5	30	160
MAY							
27...	31	<1	3	70	5	20	83

K-Based on non-ideal colony count.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV					MAY				
12...	1430	8.7	0.6	0.01	27...	1115	99	1	0.37

UPPER GUNNISON RIVER WATER-QUALITY STUDY--Continued

385240106583600 SLATE RIVER ABOVE COAL CREEK, NEAR CRESTED BUTTE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°52'40", long 106°58'36", in SE¼NE¼ sec.35, T.13 S., R.86 W., Gunnison County, Hydrologic Unit 14020001, 0.5 mi upstream from confluence with Coal Creek, and 0.6 mi northwest of Crested Butte.

DRAINAGE AREA.--Not determined.

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

REMARKS.--No previous water-quality data prior to April 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV										
13...	0850	17	120	7.6	1.0	0.2	9.9	K1	54	18
JAN										
20...	1315	9.0	133	7.5	0.5	--	10.4	K1	--	--
APR										
27...	1130	58	136	7.8	4.5	--	9.0	<1	--	--
MAY										
27...	1330	290	78	7.8	9.5	0.6	8.4	K1	36	12
JUL										
16...	1400	132	70	7.6	14.0	--	7.4	6	--	--
AUG										
25...	1200	37	116	7.6	13.0	--	6.5	K6	--	--

DATE	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)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
NOV									
13...	2.1	<0.01	0.10	<0.02	<0.1	<0.1	0.02	0.01	0.01
JAN									
20...	--	0.01	0.10	<0.02	<0.1	<0.1	<0.01	<0.01	<0.01
APR									
27...	--	<0.01	0.12	<0.02	<0.1	<0.1	<0.01	0.01	0.01
MAY									
27...	1.3	0.01	0.09	0.07	<0.1	<0.1	<0.01	<0.01	<0.01
JUL									
16...	--	0.01	0.08	0.03	<0.1	<0.1	<0.01	<0.01	<0.01
AUG									
25...	--	<0.01	<0.05	<0.02	<0.1	0.1	<0.01	<0.01	<0.01

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, 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)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV							
13...	<10	<1	<1	70	<1	10	25
MAY							
27...	<10	<1	<1	150	<1	<10	<20

K-Based on non-ideal colony count.

UPPER GUNNISON RIVER WATER-QUALITY STUDY--Continued

385240106583600 SLATE RIVER ABOVE COAL CREEK, NEAR CRESTED BUTTE, CO

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
NOV				
13...	0850	17	0.5	0.02
MAY				
27...	1330	290	3	2.7

UPPER GUNNISON RIVER WATER-QUALITY STUDY--Continued

384852106541500 SLATE RIVER ABOVE EAST RIVER, NEAR CRESTED BUTTE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat38°48'52", long 106°54'15", in NW¼NW¼ sec. 28, T.14 S. R.85 W.,Gunnison County, Hydrologic Unit 14020001, 100 ft upstream from confluence with East River, and 4.7 mi southeast of Crested Butte.

DRAINAGE AREA.--Not determined.

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

REMARKS.--No previous water-quality data prior to April 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
NOV								
13...	1120	34	190	8.2	1.5	10.4	1.0	K1
JAN								
21...	1350	34	201	7.6	0.0	12.1	--	K2
APR								
29...	0900	160	155	8.1	1.5	10.0	0.9	K6
MAY								
28...	1100	883	80	7.8	6.5	9.0	0.7	13
JUL								
16...	0820	181	110	7.8	10.0	8.0	--	57
AUG								
26...	1050	48	207	8.2	13.0	8.5	1.9	76

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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
NOV								
13...	<.01	.16	.06	0.1	0.1	.02	.01	.03
JAN								
21...	.01	.45	.10	0.2	0.2	.03	.03	.03
APR								
29...	<.01	.21	.02	0.2	0.1	.03	<.01	.02
MAY								
28...	<.01	.08	.08	<0.1	<0.1	.02	<.01	<.01
JUL								
16...	.01	.08	.03	<0.1	<0.1	<.01	<.01	<.01
AUG								
26...	<.01	.09	<.02	<0.1	0.1	<.01	<.01	<.01

K-Based on non-ideal colony count.

UPPER GUNNISON RIVER WATER-QUALITY STUDY--Continued

EAST RIVER DRAINAGE

385609106575800 EAST RIVER BELOW GOTHIC, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°56'09", long 106°57'58", in SE¼SE¼ sec.11, T.13 S., R.86 W, Gunnison County, Hydrologic Unit 14020001, at county road bridge, 0.1 mi east of Gothic, and 2.0 mi west of Mt. Crested Butte.

DRAINAGE AREA.--Not determined.

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

REMARKS.--No previous water-quality data prior to April 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
NOV								
14...	0940	20	256	8.4	0.0	10.2	<1	<0.01
JAN								
23...	1020	e14	286	8.2	0.0	9.5	K1	<0.01
APR								
28...	0840	29	287	8.5	1.0	11.1	K1	<0.01
MAY								
29...	0850	251	157	8.2	3.5	9.2	K2	0.02
JUL								
15...	1220	90	174	8.1	11.0	7.6	11	0.01
AUG								
25...	0815	31	229	8.3	8.5	8.5	12	<0.01

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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
NOV							
14...	0.11	0.03	<0.1	<0.1	0.02	<0.01	0.01
JAN							
23...	0.10	<0.02	<0.1	<0.1	<0.01	<0.01	<0.01
APR							
28...	0.12	0.02	<0.1	<0.1	<0.01	<0.01	0.01
MAY							
29...	0.12	0.05	<0.1	<0.1	<0.01	<0.01	0.01
JUL							
15...	0.06	0.03	<0.1	<0.1	<0.01	<0.01	<0.01
AUG							
25...	0.07	<0.02	<0.1	0.2	<0.01	<0.01	<0.01

e-Estimated.
K-Based on non-ideal colony count.

UPPER GUNNISON RIVER WATER-QUALITY STUDY--Continued

385408106543600 EAST RIVER ABOVE CRESTED BUTTE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°54'08", long 106°54'36", Gunnison County, Hydrologic Unit 14020001, 0.25 mi upstream from confluence with Brush Creek, and 4.2 mi northeast of Crested Butte.

DRAINAGE AREA.--Not determined.

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

REMARKS.--No previous water-quality data prior to April 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
NOV								
18...	1220	18	299	8.4	0.5	10.1	<1	<0.01
JAN								
22...	1600	14	301	7.6	0.0	11.3	K1	<0.01
APR								
28...	1200	52	307	8.4	5.0	9.3	<1	<0.01
MAY								
28...	0830	213	183	8.2	3.5	9.4	17	<0.01
JUL								
16...	1145	111	199	8.0	12.5	7.9	K8	0.01
AUG								
25...	1400	5.6	304	8.2	17.5	7.4	K20	<0.01

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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
NOV							
18...	0.08	<0.02	<0.1	<0.1	<0.01	<0.01	<0.01
JAN							
22...	0.10	<0.02	<0.1	<0.1	<0.01	<0.01	<0.01
APR							
28...	0.11	0.02	<0.1	<0.1	<0.01	<0.01	0.01
MAY							
28...	0.10	0.06	<0.1	<0.1	0.01	<0.01	<0.01
JUL							
16...	0.07	0.02	<0.1	<0.1	<0.01	<0.01	<0.01
AUG							
25...	<0.05	<0.02	<0.1	<0.1	<0.01	<0.01	<0.01

K-Based on non-ideal colony count.

UPPER GUNNISON RIVER WATER-QUALITY STUDY--Continued

384950106544200 EAST RIVER ABOVE SLATE RIVER, NEAR CRESTED BUTTE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°49'50", long 106°54'42", in SE¼SW¼ sec. 17, 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.--No previous water-quality data prior to April 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
NOV								
13...	1310	19	321	8.6	2.0	10.5	1.0	K5
JAN								
21...	1010	19	336	8.3	0.0	12.2	--	K6
APR								
29...	1030	48	295	8.5	4.0	9.6	0.5	K2
MAY								
28...	1415	407	187	8.3	10.0	8.2	0.4	16
JUL								
16...	0945	187	245	8.2	10.5	8.1	--	69
AUG								
26...	1245	42	312	8.2	14.0	10.4	0.8	K9

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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
NOV								
13...	<0.01	0.09	<0.02	<0.1	<0.1	0.03	<0.01	0.02
JAN								
21...	<0.01	0.12	0.03	<0.1	<0.1	<0.01	<0.01	<0.01
APR								
29...	<0.01	0.12	0.03	0.1	<0.1	<0.01	<0.01	0.01
MAY								
28...	0.01	0.09	0.02	0.1	<0.1	0.03	0.01	<0.01
JUL								
16...	0.01	0.06	0.03	<0.1	<0.1	0.02	<0.01	<0.01
AUG								
26...	<0.01	<0.05	0.03	<0.1	<0.1	<0.01	<0.01	<0.01

K-Based on non-ideal colony count.

UPPER GUNNISON RIVER WATER-QUALITY STUDY--Continued

UPPER GUNNISON RIVER DRAINAGE

383516106555000 OHIO CREEK ABOVE MOUTH NEAR GUNNISON, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°35'16", long 106°55'50", in SW¼SW¼ sec. 13, T.50 N., R.1 W., Gunnison County, Hydrologic Unit 14020002, 1.1 mi upstream from confluence with Gunnison River, and 3.1 mi north of Gunnison.

DRAINAGE AREA.--161 mi^2.

PERIOD OF RECORD.--October 1996 to current.

REMARKS.--No previous water-quality data prior to October 1996.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV											
19...	0900	31	190	8.1	2.0	0.6	11.0	0.6	7	89	25
APR											
29...	1430	89	154	8.1	10.5	6.9	8.4	0.9	K5	66	19
JUN											
03...	0845	237	170	7.8	9.0	15	8.7	1.1	250	75	21
AUG											
27...	1230	39	187	8.2	17.0	1.7	7.9	1.0	140	86	24

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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)
NOV											
19...	6.4	6.1	0.3	1.4	131	107	--	8.9	0.9	0.1	21
APR											
29...	4.9	5.8	0.3	1.5	--	--	65	13	1.0	<0.1	17
JUN											
03...	5.3	4.6	0.2	1.8	--	--	80	11	0.6	0.1	17
AUG											
27...	6.3	6.3	0.3	2.0	--	--	95	8.0	0.5	0.1	22

DATE	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)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
NOV											
19...	135	0.18	11.2	<0.01	<0.05	<0.02	<0.1	<0.1	0.02	<0.01	0.01
APR											
29...	101	0.14	24.2	<0.01	<0.05	0.03	0.2	0.2	0.01	<0.01	0.01
JUN											
03...	110	0.15	70.6	0.02	0.08	0.02	0.6	0.3	0.13	0.06	0.04
AUG											
27...	126	0.17	13.4	<0.01	<0.05	<0.02	0.2	0.2	0.05	0.04	0.03

K-Based on non-ideal colony count.

UPPER GUNNISON RIVER WATER-QUALITY STUDY--Continued

383516106555000 OHIO CREEK ABOVE MOUTH NEAR GUNNISON, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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, 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)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV							
19...	<5	<1	<1	200	<1	40	<3
JUN							
03...	<10	<1	<1	1400	<1	80	<20

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV				
19...	0900	31	2	0.18
APR				
29...	1430	89	19	4.6
JUN				
03...	0845	237	46	29
AUG				
27...	1230	39	8	0.86

UPPER COLORADO RIVER BASIN SYNOPTIC SAMPLING IN AREAS OF INCREASING URBANIZATION

(National Water-Quality Assessment Program)

The Upper Colorado River Basin National Water-Quality Assessment Study Unit conducted a major ion and nutrient synoptic sampling survey during March and September 1998. Samples were collected to investigate water quality at selected sites where increasing urbanization is occurring. Major ion, nutrient, physical property, and suspended-sediment data are presented. Synoptic data for sites 09010500, Colorado River below Baker Gulch, CO; 09112200, East River below Cement Creek, CO; and 09146200, Uncompahgre River near Ridgway, CO; are published elsewhere in this report with other water-quality data for these stations.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
09022000 FRASER RIVER AT UPPER STATION NEAR WINTER PARK, CO. (LAT 39 50 45N LONG 105 45 05W)												
MAR 1998												
26...	0840	1.4	298	7.3	0.5	10.1	53	14	4.2	35	2	0.8
SEP												
21...	0830	4.4	65	7.6	3.5	9.2	23	5.8	2.0	4.0	0.4	0.4
09025010 FRASER RIVER BELOW VASQUEZ CREEK AT WINTER PARK, CO.(LAT 39 55 40N LONG 105 47 08W)												
MAR 1998												
26...	1020	16	134	7.8	2.0	9.9	35	9.7	2.7	11	0.8	1.6
SEP												
21...	1200	19	81	7.7	9.0	8.7	29	7.4	2.6	4.6	0.4	0.8
09027100 FRASER RIVER AT TABERNASH, CO. (LAT 39 59 25N LONG 105 49 44W)												
MAR 1998												
26...	1300	47	130	7.4	0.0	9.4	39	11	2.6	8.3	0.6	3.2
SEP												
21...	1245	27	88	9.0	12.0	9.0	33	9.3	2.4	4.7	0.4	1.1
400550105581800 FRASER RIVER NEAR MOUTH NEAR GRANBY, CO. (LAT 40 05 50N LONG 105 58 18W)												
MAR 1998												
26...	1550	211	152	7.8	0.5	10.5	57	17	3.3	7.8	0.4	4.7
SEP												
21...	1515	34	130	8.8	15.0	8.8	51	16	3.0	5.7	0.3	1.5
393557105530000 SNAKE RIVER BELOW MOUTH OF PERU CREEK (LAT 39 35 57N LONG 105 53 00W)												
MAR 1998												
23...	0900	5.8	162	7.1	1.0	9.8	62	18	4.1	3.1	0.2	0.9
SEP												
14...	0815	28	130	6.7	6.5	8.0	49	14	3.4	1.9	0.1	0.8
393606105594600 SNAKE RIVER BELOW KEYSTONE, CO. (LAT 39 36 06N LONG 105 59 46W)												
MAR 1998												
23...	1225	18	140	7.8	1.5	10.0	51	15	3.2	4.8	0.3	1.0
SEP												
14...	1045	100	120	7.3	10.5	8.2	47	14	3.0	2.6	0.2	0.9
392546106023500 BLUE RIVER AT BLUE RIVER ABOVE GOOSE PASTURE TARN (LAT 39 25 46N LONG 106 02 25W)												
MAR 1998												
24...	0755	2.5	196	8.2	0.5	10.0	84	22	7.1	5.4	0.3	0.7
SEP												
15...	0830	12	133	8.2	7.5	8.3	64	17	5.2	2.2	0.1	0.7
09046490 BLUE RIVER AT BLUE RIVER, CO. (LAT 39 27 21N LONG 106 01 52W)												
MAR 1998												
24...	1035	5.6	177	8.1	1.0	9.7	86	25	5.9	2.2	0.1	0.7
SEP												
15...	0900	24	135	8.5	12.0	7.5	65	18	4.6	1.8	0.1	0.6
393057106025800 BLUE RIVER AT COYNE VALLEY ROAD NEAR BRECKENRIDGE, CO. (LAT 39 30 57N LONG 106 02 58W)												
MAR 1998												
24...	1420	2.1	218	8.1	7.0	9.2	94	28	6.0	4.3	0.2	0.9
SEP												
15...	1330	21	155	8.0	11.0	7.8	70	21	4.4	2.4	0.1	0.9

UPPER COLORADO RIVER BASIN SYNOPTIC SAMPLING IN AREAS OF INCREASING URBANIZATION--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
		09046600	BLUE RIVER NEAR DILLON, CO. (LAT 39 34 00N LONG 106 02 56W)									
MAR 1998												
25...	0815	28	171	8.1	2.5	10.5	75	22	4.6	3.1	0.2	0.8
SEP												
16...	0830	74	145	8.0	8.5	8.5	66	20	4.0	2.5	0.1	0.9
		09050700	BLUE RIVER BELOW DILLON, CO. (LAT 39 37 32N LONG 106 03 57W)									
MAR 1998												
25...	0945	107	275	7.5	3.5	8.2	110	40	3.2	4.6	0.2	2.9
SEP												
16...	0830	81	211	7.7	5.5	8.7	89	30	3.2	3.8	0.2	2.2
		394252106065600	BLUE RIVER ABOVE SIERRA BOSQUE (LAT 39 42 52N LONG 106 06 56W)									
MAR 1998												
25...	1145	134	273	8.0	7.0	9.2	100	35	3.9	8.0	0.3	2.6
SEP												
16...	1130	209	213	7.9	10.0	8.1	85	28	3.4	5.4	0.3	2.3
		09053500	BLUE RIVER ABOVE GREEN MOUNTAIN RESERVOIR, CO. (LAT 39 49 55N LONG 106 13 20W)									
MAR 1998												
25...	1440	218	245	8.2	8.0	8.9	98	32	4.4	6.8	0.3	2.8
SEP												
16...	1225	252	203	8.1	11.5	8.2	84	27	3.7	4.8	0.2	2.0
		09073400	ROARING FORK RIVER NEAR ASPEN, CO. (LAT 39 10 48N LONG 106 48 05W)									
MAR 1998												
12...	0925	31	91	7.5	0.5	10.1	40	12	2.4	2.8	0.2	0.5
SEP												
03...	0830	48	74	7.4	9.0	8.5	33	10	2.0	2.3	0.2	0.4
		391531106525200	ROARING FORK RIVER BELOW ASPEN METRO PLAZA BELOW ASPEN, CO.(LAT 39 15 31N LONG 106 52 52W)									
MAR 1998												
12...	1110	101	430	8.9	3.0	12.2	210	66	11	4.7	0.1	1.5
SEP												
03...	0915	250	370	8.2	9.5	8.6	180	58	8.6	3.0	0.1	1.3
		09081000	ROARING FORK RIVER NEAR EMMA, CO. (LAT 39 22 24N LONG 107 05 00W)									
MAR 1998												
11...	1215	401	334	8.9	3.0	12.4	170	53	8.4	3.6	0.1	1.0
SEP												
02...	1545	590	329	8.3	15.5	7.7	160	49	8.3	3.1	0.1	1.0
		392847107171100	ROARING FORK RIVER BELOW CATTLE CREEK NEAR GLENWOOD SPRINGS, CO.(LAT 39 28 47N LONG 107 17 11W)									
MAR 1998												
12...	1445	503	416	9.2	7.5	12.0	200	64	11	7.5	0.2	1.3
SEP												
02...	1600	945	433	8.5	17.5	8.1	210	65	11	5.8	0.2	1.4
		09085000	ROARING FORK RIVER AT GLENWOOD SPRINGS, CO. (LAT 39 32 37N LONG 107 19 44W)									
MAR 1998												
13...	0725	610	501	8.0	2.5	10.6	220	67	12	18	0.5	1.5
SEP												
03...	1300	949	523	8.5	16.0	9.6	220	67	11	20	0.6	1.4

UPPER COLORADO RIVER BASIN SYNOPTIC SAMPLING IN AREAS OF INCREASING URBANIZATION--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (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)
385240106583600 SLATE RIVER ABOVE COAL CREEK NEAR CRESTED BUTTE, CO.> (LAT 38 52 40N LONG 106 58 36W)												
MAR 1998												
18...	0915	6.5	132	7.4	0.0	8.6	59	20	2.4	1.9	0.1	0.4
SEP												
09...	0900	13	124	7.6	13.0	6.6	55	18	2.1	1.9	0.1	0.5
384853106541500 SLATE RIVER AT MOUTH NEAR CRESTED BUTTE, CO. (LAT 38 48 53N LONG 106 54 15W)												
MAR 1998												
18...	1215	29	209	8.0	0.5	10.8	85	27	4.3	6.5	0.3	1.1
SEP												
09...	0930	38	218	8.2	14.0	7.6	96	31	4.5	4.8	0.2	0.9
384950106544200 EAST RIVER ABOVE SLATE RIVER NEAR CRESTED BUTTE, CO. (LAT 38 49 50N LONG 106 54 42W)												
MAR 1998												
19...	0940	15	331	8.4	1.5	10.4	170	55	8.5	2.3	0.1	0.9
SEP												
10...	0845	35	331	8.2	11.0	8.0	170	54	7.4	2.1	0.1	0.9
09112500 EAST RIVER AT ALMONT, CO. (LAT 38 39 52N LONG 106 50 51W)												
MAR 1998												
18...	1425	83	279	8.9	3.0	11.0	140	42	7.6	5.1	0.2	1.1
SEP												
10...	1200	107	311	8.5	14.0	8.0	150	47	7.8	4.4	0.2	1.1
09115500 TOMICHI CREEK AT SARGENTS, CO. (LAT 38 23 42N LONG 106 25 19W)												
MAR 1998												
16...	1145	35	158	8.0	0.0	12.0	74	19	6.7	3.1	0.2	1.4
SEP												
08...	1045	18	173	8.2	14.0	7.2	79	21	6.8	3.4	0.2	1.2
383126106475600 TOMICHI CREEK BELOW COCHETOPA CREEK NEAR PARLIN, CO. (LAT 38 31 26N LONG 106 47 56W)												
MAR 1998												
17...	0830	111	235	8.0	0.0	10.2	98	27	7.6	8.7	0.4	4.6
SEP												
08...	0950	81	235	8.3	15.5	8.3	100	29	7.3	7.6	0.3	2.2
09119000 TOMICHI CREEK AT GUNNISON, CO. (LAT 38 31 18N LONG 106 56 25W)												
MAR 1998												
17...	1230	120	238	8.2	2.0	10.4	100	27	7.7	8.1	0.4	4.5
SEP												
08...	1415	80	253	8.6	20.5	9.5	110	32	7.9	7.5	0.3	2.2
380115107402001 UNCOMPAHGRE RIVER AT OURAY, CO. (LAT 38 01 15N LONG 107 40 20W)												
MAR 1998												
10...	1335	31	666	6.9	4.0	9.9	320	120	5.0	10.0	0.2	1.3
SEP												
01...	1000	80	412	6.5	11.5	8.1	170	67	3.3	5.4	0.2	0.8
380448107420800 UNCOMPAHGRE RIVER ABOVE CUTLER CREEK NEAR OURAY, CO. (LAT 38 04 48N LONG 107 42 08W)												
MAR 1998												
10...	0950	17	711	7.6	3.0	10.5	340	130	5.6	16	0.4	1.8
SEP												
01...	0915	83	436	7.6	12.5	8.1	190	70	3.5	7.7	0.2	1.0

UPPER COLORADO RIVER BASIN SYNOPTIC SAMPLING IN AREAS OF INCREASING URBANIZATION--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	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)
09022000 FRASER RIVER AT UPPER STATION NEAR WINTER PARK, CO. (LAT 39 50 45N LONG 105 45 05W)												
MAR 1998												
26...	18	--	15	2.5	75	0.2	8.5	165	150	0.22	0.61	0.01
SEP												
21...	22	--	18	1.9	6.3	0.3	7.4	46	40	0.06	0.54	<0.01
09025010 FRASER RIVER BELOW VASQUEZ CREEK AT WINTER PARK, CO.(LAT 39 55 40N LONG 105 47 08W)												
MAR 1998												
26...	37	--	30	3.7	18	0.4	11	84	79	0.11	3.58	0.02
SEP												
21...	35	--	29	2.4	5.1	0.3	9.1	56	51	0.08	2.83	<0.01
09027100 FRASER RIVER AT TABERNASH, CO. (LAT 39 59 25N LONG 105 49 44W)												
MAR 1998												
26...	46	--	38	4.1	12	0.2	12	87	80	0.12	11.1	0.02
SEP												
21...	33	4	33	2.7	4.4	0.3	9.6	65	56	0.09	4.74	0.01
400550105581800 FRASER RIVER NEAR MOUTH NEAR GRANBY, CO. (LAT 40 05 50N LONG 105 58 18W)												
MAR 1998												
26...	73	--	60	8.6	5.7	0.2	11	111	97	0.15	63.2	0.02
SEP												
21...	59	4	54	3.9	4.0	0.3	11	88	78	0.12	8.05	<0.01
393557105530000 SNAKE RIVER BELOW MOUTH OF PERU CREEK (LAT 39 35 57N LONG 105 53 00W)												
MAR 1998												
23...	16	--	13	56	0.5	0.2	12	108	104	0.15	1.69	0.01
SEP												
14...	6	--	5	46	0.3	0.2	9.8	95	81	0.13	7.26	<0.01
393606105594600 SNAKE RIVER BELOW KEYSTONE, CO. (LAT 39 36 06N LONG 105 59 46W)												
MAR 1998												
23...	32	--	26	25	7.4	0.2	9.5	86	83	0.12	4.13	0.01
SEP												
14...	21	--	17	31	1.7	0.2	8.9	85	74	0.12	22.9	0.01
392546106023500 BLUE RIVER AT BLUE RIVER ABOVE GOOSE PASTURE TARN (LAT 39 25 46N LONG 106 02 25W)												
MAR 1998												
24...	84	--	69	11	13	<0.1	5.4	112	106	0.15	0.76	0.01
SEP												
15...	65	--	53	8.3	3.1	0.1	3.9	83	73	0.11	2.73	<0.01
09046490 BLUE RIVER AT BLUE RIVER, CO. (LAT 39 27 21N LONG 106 01 52W)												
MAR 1998												
24...	100	--	82	8.3	2.8	<0.1	5.9	103	100	0.14	1.56	0.01
SEP												
15...	68	2	60	6.1	2.2	0.1	3.7	83	74	0.11	5.42	<0.01
393057106025800 BLUE RIVER AT COYNE VALLEY ROAD NEAR BRECKENRIDGE, CO. (LAT 39 30 57N LONG 106 02 58W)												
MAR 1998												
24...	70	--	57	32	11	<0.1	6.5	133	123	0.18	0.75	0.01
SEP												
15...	63	1	54	16	3.3	0.1	6.6	98	87	0.13	5.66	<0.01

UPPER COLORADO RIVER BASIN SYNOPTIC SAMPLING IN AREAS OF INCREASING URBANIZATION--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
09046600 BLUE RIVER NEAR DILLON, CO. (LAT 39 34 00N LONG 106 02 56W)												
MAR 1998												
25...	63	--	52	22	6.4	<0.1	7.1	102	98	0.14	7.71	0.01
SEP												
16...	59	1	50	15	3.3	<0.1	7.6	95	83	0.13	19.0	<0.01
09050700 BLUE RIVER BELOW DILLON, CO. (LAT 39 37 32N LONG 106 03 57W)												
MAR 1998												
25...	44	--	36	86	3.5	0.5	5.2	176	169	0.24	50.8	<0.01
SEP												
16...	42	--	34	54	3.3	0.5	5.3	140	124	0.19	30.7	<0.01
394252106065600 BLUE RIVER ABOVE SIERRA BOSQUE (LAT 39 42 52N LONG 106 06 56W)												
MAR 1998												
25...	46	--	38	68	11	0.5	6.0	169	160	0.23	61.1	0.01
SEP												
16...	45	--	37	48	5.4	0.4	5.8	139	122	0.19	78.6	<0.01
09053500 BLUE RIVER ABOVE GREEN MOUNTAIN RESERVOIR, CO. (LAT 39 49 55N LONG 106 13 20W)												
MAR 1998												
25...	62	--	51	52	8.5	0.4	6.7	153	145	0.21	90.1	<0.01
SEP												
16...	56	--	46	39	4.6	0.4	5.9	132	117	0.18	89.7	<0.01
09073400 ROARING FORK RIVER NEAR ASPEN, CO. (LAT 39 10 48N LONG 106 48 05W)												
MAR 1998												
12...	44	--	36	6.3	0.3	0.6	9.3	60	57	0.08	5.02	0.05
SEP												
03...	37	--	30	4.2	0.3	0.6	8.3	58	46	0.08	7.52	<0.01
391531106525200 ROARING FORK RIVER BELOW ASPEN METRO PLAZA BELOW ASPEN, CO.(LAT 39 15 31N LONG 106 52 52W)												
MAR 1998												
12...	95	7	90	120	4.4	0.3	8.0	290	274	0.39	79.1	<0.01
SEP												
03...	112	--	92	88	2.3	0.3	7.9	249	225	0.34	168	<0.01
09081000 ROARING FORK RIVER NEAR EMMA, CO. (LAT 39 22 24N LONG 107 05 00W)												
MAR 1998												
11...	89	5	81	85	2.5	0.2	6.8	220	210	0.30	238	<0.01
SEP												
02...	113	--	93	67	1.5	0.2	7.8	220	194	0.30	350	<0.01
392847107171100 ROARING FORK RIVER BELOW CATTLE CREEK NEAR GLENWOOD SPRINGS, CO.(LAT 39 28 47N LONG 107 17 11W)												
MAR 1998												
12...	100	13	104	110	4.0	0.2	7.5	274	269	0.37	372	<0.01
SEP												
02...	138	4	119	91	2.6	0.2	9.5	288	258	0.39	735	<0.01
09085000 ROARING FORK RIVER AT GLENWOOD SPRINGS, CO. (LAT 39 32 37N LONG 107 19 44W)												
MAR 1998												
13...	140	--	115	120	19	0.2	7.2	325	310	0.44	535	<0.01
SEP												
03...	150	5	131	97	25	0.2	9.6	345	312	0.47	884	<0.01

UPPER COLORADO RIVER BASIN SYNOPTIC SAMPLING IN AREAS OF INCREASING URBANIZATION--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
385240106583600 SLATE RIVER ABOVE COAL CREEK NEAR CRESTED BUTTE, CO. (LAT 38 52 40N LONG 106 58 36W)												
MAR 1998												
18...	46	--	38	24	0.1	<0.1	5.1	84	77	0.11	1.47	<0.01
SEP												
09...	49	--	40	18	0.2	<0.1	5.5	77	70	0.10	2.68	<0.01
384853106541500 SLATE RIVER AT MOUTH NEAR CRESTED BUTTE, CO. (LAT 38 48 53N LONG 106 54 15W)												
MAR 1998												
18...	74	--	61	34	4.4	0.3	6.4	133	123	0.18	10.4	<0.01
SEP												
09...	105	1	88	20	1.5	0.2	6.5	135	122	0.18	13.7	<0.01
384950106544200 EAST RIVER ABOVE SLATE RIVER NEAR CRESTED BUTTE, CO. (LAT 38 49 50N LONG 106 54 42W)												
MAR 1998												
19...	154	4	132	47	0.3	<0.1	6.2	208	200	0.28	8.54	<0.01
SEP												
10...	167	5	145	30	0.3	<0.1	6.7	201	188	0.27	19.0	<0.01
09112500 EAST RIVER AT ALMONT, CO. (LAT 38 39 52N LONG 106 50 51W)												
MAR 1998												
18...	126	8	117	32	2.2	0.2	6.7	175	168	0.24	39.4	<0.01
SEP												
10...	154	6	136	26	1.1	0.1	7.4	190	177	0.26	54.9	<0.01
09115500 TOMICHI CREEK AT SARGENTS, CO. (LAT 38 23 42N LONG 106 25 19W)												
MAR 1998												
16...	83	--	68	15	0.5	0.2	14	107	101	0.15	10.1	<0.01
SEP												
08...	88	2	76	11	0.5	0.2	16	116	106	0.16	5.76	<0.01
383126106475600 TOMICHI CREEK BELOW COCHETOPA CREEK NEAR PARLIN, CO. (LAT 38 31 26N LONG 106 47 56W)												
MAR 1998												
17...	118	--	97	18	3.0	0.4	18	161	146	0.22	48.3	<0.01
SEP												
08...	132	--	108	11	1.2	0.3	20	156	143	0.21	33.9	<0.01
09119000 TOMICHI CREEK AT GUNNISON, CO. (LAT 38 31 18N LONG 106 56 25W)												
MAR 1998												
17...	126	--	103	17	3.1	0.4	17	162	147	0.22	50.3	<0.01
SEP												
08...	122	11	118	11	1.6	0.3	19	165	152	0.22	35.6	<0.01
380115107402001 UNCOMPAHGRE RIVER AT OURAY, CO. (LAT 38 01 15N LONG 107 40 20W)												
MAR 1998												
10...	21	--	17	310	2.4	0.5	12	523	478	0.71	43.2	<0.01
SEP												
01...	15	--	12	170	1.2	0.3	8.5	305	264	0.41	65.7	<0.01
380448107420800 UNCOMPAHGRE RIVER ABOVE CUTLER CREEK NEAR OURAY, CO. (LAT 38 04 48N LONG 107 42 08W)												
MAR 1998												
10...	41	--	34	320	4.9	0.6	13	548	511	0.75	25.7	0.01
SEP												
01...	29	--	24	170	2.0	0.4	8.1	323	283	0.44	72.6	<0.01

UPPER COLORADO RIVER BASIN SYNOPTIC SAMPLING IN AREAS OF INCREASING URBANIZATION--Continued

(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	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 DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
09022000 FRASER RIVER AT UPPER STATION NEAR WINTER PARK, CO. (LAT 39 50 45N LONG 105 45 05W)												
MAR 1998												
26...	0.16	0.006	<0.1	<0.1	0.004	0.001	<0.001	1.0	150	23	3	0.01
SEP												
21...	0.16	<0.002	<0.1	<0.1	0.001	0.001	<0.001	1.1	47	<4	1	0.01
09025010 FRASER RIVER BELOW VASQUEZ CREEK AT WINTER PARK, CO.(LAT 39 55 40N LONG 105 47 08W)												
MAR 1998												
26...	0.29	0.560	0.8	0.8	0.099	0.058	0.054	2.7	69	25	9	0.38
SEP												
21...	0.16	<0.002	0.1	<0.1	0.020	0.009	0.004	1.5	180	25	4	0.18
09027100 FRASER RIVER AT TABERNASH, CO. (LAT 39 59 25N LONG 105 49 44W)												
MAR 1998												
26...	0.48	0.743	1.3	1.2	0.250	0.150	0.13	5.9	180	75	17	2.2
SEP												
21...	0.14	0.020	0.3	0.2	0.078	0.063	0.05	2.4	290	13	5	0.33
400550105581800 FRASER RIVER NEAR MOUTH NEAR GRANBY, CO. (LAT 40 05 50N LONG 105 58 18W)												
MAR 1998												
26...	0.31	0.106	0.8	0.6	0.210	0.110	0.084	7.9	270	73	47	27
SEP												
21...	0.19	0.005	0.2	0.2	0.067	0.058	0.043	2.6	220	21	2	0.15
393557105530000 SNAKE RIVER BELOW MOUTH OF PERU CREEK (LAT 39 35 57N LONG 105 53 00W)												
MAR 1998												
23...	0.12	0.007	<0.1	<0.1	0.001	<0.001	<0.001	0.3	110	360	6	0.09
SEP												
14...	0.13	0.002	<0.1	<0.1	0.003	<0.001	<0.001	0.4	110	550	7	0.50
393606105594600 SNAKE RIVER BELOW KEYSTONE, CO. (LAT 39 36 06N LONG 105 59 46W)												
MAR 1998												
23...	0.15	0.003	<0.1	<0.1	0.001	0.001	<0.001	0.5	14	97	2	0.08
SEP												
14...	0.13	0.007	<0.1	<0.1	0.001	0.001	<0.001	0.6	<10	280	6	1.7
392546106023500 BLUE RIVER AT BLUE RIVER ABOVE GOOSE PASTURE TARN (LAT 39 25 46N LONG 106 02 25W)												
MAR 1998												
24...	0.17	0.002	<0.1	<0.1	0.003	0.001	0.001	0.9	<10	<4	3	0.02
SEP												
15...	0.12	<0.002	<0.1	<0.1	0.006	0.001	<0.001	0.8	17	<4	2	0.06
09046490 BLUE RIVER AT BLUE RIVER, CO. (LAT 39 27 21N LONG 106 01 52W)												
MAR 1998												
24...	0.13	0.019	<0.1	<0.1	0.003	<0.001	<0.001	0.6	29	--	2	0.03
SEP												
15...	0.09	<0.002	<0.1	<0.1	0.004	0.010	<0.001	1.1	55	<4	1	0.08
393057106025800 BLUE RIVER AT COYNE VALLEY ROAD NEAR BRECKENRIDGE, CO. (LAT 39 30 57N LONG 106 02 58W)												
MAR 1998												
24...	0.25	0.002	<0.1	<0.1	0.004	0.002	0.001	0.4	<10	<4	1	0.01
SEP												
15...	0.16	<0.002	<0.1	<0.1	0.005	0.003	0.003	0.5	<10	<4	1	0.06

UPPER COLORADO RIVER BASIN SYNOPTIC SAMPLING IN AREAS OF INCREASING URBANIZATION--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
09046600 BLUE RIVER NEAR DILLON, CO. (LAT 39 34 00N LONG 106 02 56W)												
MAR 1998												
25...	0.25	0.003	<0.1	<0.1	0.003	0.001	0.002	0.7	<10	<4	2	0.16
SEP												
16...	0.17	<0.002	<0.1	<0.1	0.002	0.002	0.001	0.6	<10	<4	1	0.18
09050700 BLUE RIVER BELOW DILLON, CO. (LAT 39 37 32N LONG 106 03 57W)												
MAR 1998												
25...	0.24	0.002	<0.1	<0.1	0.003	0.001	<0.001	1.5	<10	11	4	1.3
SEP												
16...	0.26	<0.002	<0.1	<0.1	0.002	0.001	<0.001	1.5	<10	<4	1	0.15
394252106065600 BLUE RIVER ABOVE SIERRA BOSQUE (LAT 39 42 52N LONG 106 06 56W)												
MAR 1998												
25...	0.38	0.022	0.1	0.1	0.008	0.002	<0.001	1.7	11	14	4	1.4
SEP												
16...	0.35	0.002	<0.1	<0.1	0.004	0.003	0.001	1.5	13	8	1	0.62
09053500 BLUE RIVER ABOVE GREEN MOUNTAIN RESERVOIR, CO. (LAT 39 49 55N LONG 106 13 20W)												
MAR 1998												
25...	0.27	<0.002	0.2	0.1	0.022	0.011	0.001	2.4	31	29	7	4.1
SEP												
16...	0.26	0.004	<0.1	<0.1	0.005	0.002	0.001	1.4	17	7	2	1.5
09073400 ROARING FORK RIVER NEAR ASPEN, CO. (LAT 39 10 48N LONG 106 48 05W)												
MAR 1998												
12...	0.13	0.002	<0.1	<0.1	0.013	0.001	0.001	0.8	100	15	1	0.04
SEP												
03...	<0.05	<0.002	<0.1	<0.1	0.004	0.001	<0.001	1.5	84	14	2	0.25
391531106525200 ROARING FORK RIVER BELOW ASPEN METRO PLAZA BELOW ASPEN, CO.(LAT 39 15 31N LONG 106 52 52W)												
MAR 1998												
12...	0.32	0.003	<0.1	<0.1	0.094	0.087	0.080	0.7	10	<4	1	0.33
SEP												
03...	0.26	<0.002	<0.1	<0.1	0.028	0.025	0.022	0.8	13	<4	2	1.2
09081000 ROARING FORK RIVER NEAR EMMA, CO. (LAT 39 22 24N LONG 107 05 00W)												
MAR 1998												
11...	0.09	0.005	0.1	<0.1	0.022	0.014	0.012	1.7	<10	<4	2	1.6
SEP												
02...	0.10	0.006	0.1	<0.1	0.020	0.011	0.008	1.8	10	<4	14	22
392847107171100 ROARING FORK RIVER BELOW CATTLE CREEK NEAR GLENWOOD SPRINGS, CO.(LAT 39 28 47N LONG 107 17 11W)												
MAR 1998												
12...	0.07	0.006	0.2	0.1	0.024	0.014	0.012	1.7	<10	5	5	6.8
SEP												
02...	0.12	0.008	0.1	<0.1	0.024	0.014	0.012	1.7	11	4	7	18
09085000 ROARING FORK RIVER AT GLENWOOD SPRINGS, CO. (LAT 39 32 37N LONG 107 19 44W)												
MAR 1998												
13...	0.09	0.007	0.2	<0.1	0.033	0.008	0.006	1.8	<10	9	9	14
SEP												
03...	0.13	0.005	0.1	<0.1	0.015	0.011	0.008	1.6	<10	<4	5	14

UPPER COLORADO RIVER BASIN SYNOPTIC SAMPLING IN AREAS OF INCREASING URBANIZATION--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
385240106583600 SLATE RIVER ABOVE COAL CREEK NEAR CRESTED BUTTE, CO. (LAT 38 52 40N LONG 106 58 36W)												
MAR 1998												
18...	0.11	<0.002	<0.1	<0.1	<0.001	0.001	<0.001	0.4	12	5	1	0.02
SEP												
09...	0.06	<0.002	<0.1	<0.1	0.001	<0.001	<0.001	0.4	12	8	1	0.03
384853106541500 SLATE RIVER AT MOUTH NEAR CRESTED BUTTE, CO. (LAT 38 48 53N LONG 106 54 15W)												
MAR 1998												
18...	0.56	0.161	0.3	0.3	0.100	0.076	0.071	1.2	14	21	3	0.20
SEP												
09...	<0.05	<0.002	0.1	<0.1	0.007	0.004	0.002	0.9	21	5	2	0.17
384950106544200 EAST RIVER ABOVE SLATE RIVER NEAR CRESTED BUTTE, CO. (LAT 38 49 50N LONG 106 54 42W)												
MAR 1998												
19...	0.12	0.040	<0.1	<0.1	0.015	0.010	0.009	0.6	<10	<4	2	0.08
SEP												
10...	<0.05	<0.002	<0.1	<0.1	0.001	0.001	<0.001	0.6	<10	<4	1	0.08
09112500 EAST RIVER AT ALMONT, CO. (LAT 38 39 52N LONG 106 50 51W)												
MAR 1998												
18...	0.13	0.005	0.2	<0.1	0.021	0.012	0.009	0.9	<10	<4	2	0.43
SEP												
10...	<0.05	<0.002	0.1	<0.1	0.004	0.003	<0.001	0.9	11	<4	2	0.64
09115500 TOMICHI CREEK AT SARGENTS, CO. (LAT 38 23 42N LONG 106 25 19W)												
MAR 1998												
16...	0.07	0.004	<0.1	0.1	0.023	0.011	0.010	1.3	27	12	6	0.53
SEP												
08...	<0.05	<0.002	0.1	0.1	0.014	0.011	0.008	1.9	76	29	4	0.22
383126106475600 TOMICHI CREEK BELOW COCHETOPA CREEK NEAR PARLIN, CO. (LAT 38 31 26N LONG 106 47 56W)												
MAR 1998												
17...	0.10	0.051	0.6	0.4	0.110	0.067	0.050	5.1	64	57	22	6.6
SEP												
08...	<0.05	<0.002	0.2	0.2	0.065	0.044	0.039	3.0	72	28	5	1.1
09119000 TOMICHI CREEK AT GUNNISON, CO. (LAT 38 31 18N LONG 106 56 25W)												
MAR 1998												
17...	0.09	0.032	0.6	0.4	0.094	0.056	0.039	5.5	58	58	13	4.1
SEP												
08...	<0.05	<0.002	0.3	0.2	0.048	0.042	0.036	2.8	62	16	3	0.73
380115107402001 UNCOMPAHGRE RIVER AT OURAY, CO. (LAT 38 01 15N LONG 107 40 20W)												
MAR 1998												
10...	0.12	0.013	<0.1	<0.1	0.035	0.001	<0.001	0.3	68	529	37	3.0
SEP												
01...	0.10	0.004	<0.1	<0.1	0.072	<0.001	<0.001	0.4	23	354	62	13
380448107420800 UNCOMPAHGRE RIVER ABOVE CUTLER CREEK NEAR OURAY, CO. (LAT 38 04 48N LONG 107 42 08W)												
MAR 1998												
10...	0.15	0.133	0.2	0.1	0.039	0.002	0.001	0.3	<10	480	25	1.2
SEP												
01...	0.12	0.062	0.3	<0.1	0.100	<0.001	<0.001	0.4	<10	300	90	20

UPPER COLORADO RIVER BASIN SYNOPTIC SAMPLING IN AGRICULTURAL AREAS

(National Water-Quality Assessment Program)

The Upper Colorado River Basin National Water-Quality Assessment Study Unit conducted a major ion, nutrient, and pesticide synoptic sampling survey during May 1998. Samples were collected to investigate water quality at selected sites during the pesticide application season. Major ion, nutrient, and physical property data are presented here. Synoptic data for stations 09149480, Dry Creek at Begonia Road near Delta, CO; 09152500, Gunnison River near Grand Junction, CO; 09153290, Reed Wash near Mack, CO; and 09163500, Colorado River near CO/UT Stateline; are published elsewhere in this report with other water-quality data for these stations.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH 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)
390347108265800 33 ROAD DRAIN AT MOUTH NEAR CLIFTON (LAT 39 03 47N LONG 108 26 58W)										
MAY 1998 05...	0830	17	1440	7.8	11.0	8.0	500	87	67	130
09106200 LEWIS WASH NEAR GRAND JUNCTION, CO. (LAT 39 03 38N LONG 108 28 38W)										
MAY 1998 05...	0915	16	519	8.4	12.0	8.6	180	46	15	35
390517108230501 DRAIN AT 36 ROAD, EAST ORCHARD MESA (LAT 39 05 17N LONG 108 23 05W)										
MAY 1998 05...	1330	0.75	685	8.6	16.5	8.6	230	58	20	53
390322108253401 DRAIN, C 1/2 AND 33 3/4 ROADS, CEN.ORCHARD MESA (LAT 39 03 22N LONG 108 25 34W)										
MAY 1998 05...	1400	0.33	2220	7.6	16.0	6.0	1000	320	56	110
390345108073301 DRAIN AT D AND 29 3/4 ROADS (LAT 39 03 45N LONG 108 07 33W)										
MAY 1998 06...	0835	1.5	1060	8.0	10.5	7.9	400	79	49	78
390319108312501 DRAIN AT C 1/2 AND 28 1/2 ROADS (LAT 39 03 19N LONG 108 31 25W)										
MAY 1998 06...	0930	2.2	1830	7.9	11.0	7.5	740	160	86	130
390320108315901 INDIAN WASH AT C 1/2 ROAD (LAT 39 03 20N LONG 108 31 59W)										
MAY 1998 06...	1215	75	532	8.0	12.0	8.1	170	43	15	41
09152650 LEACH CREEK AT DURHAM, CO. (LAT 39 05 27N LONG 108 36 25W)										
MAY 1998 06...	1315	36	1140	8.2	12.0	8.7	470	120	42	67
09152600 ORCHARD MESA DRAIN AT GRAND JUNCTION, CO. (LAT 39 02 49N LONG 108 34 17W)										
MAY 1998 07...	0815	13	854	8.1	10.5	9.0	340	94	25	53
390514108373201 DRAIN ALONG REDLANDS PARKWAY, AT MOUTH (LAT 39 05 14N LONG 108 37 32W)										
MAY 1998 07...	0925	2.3	962	8.1	10.5	9.1	360	78	40	74
390529108385401 LIMEKILN GULCH NEAR MOUTH (LAT 39 05 29N LONG 108 38 54W)										
MAY 1998 07...	1410	4.2	1080	8.3	16.5	8.3	320	62	39	120
390624108374900 APPLETON DRAIN NEAR MOUTH AT G ROAD (LAT 39 06 24N LONG 108 37 49W)										
MAY 1998 07...	1450	7.6	822	8.3	17.5	7.5	310	78	27	51

UPPER COLORADO RIVER BASIN SYNOPTIC SAMPLING IN AGRICULTURAL AREAS--Continued

(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH 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)
390645108390101 PERSIGO WASH AT RIVER ROAD (LAT 39 06 45N LONG 108 39 01W)										
MAY 1998 11...	1250	32	1200	8.3	13.0	8.7	470	120	42	81
390723108400500 COPECO DRAIN NEAR MOUTH AT HWY 50 (LAT 39 07 23N LONG 108 40 05W)										
MAY 1998 11...	1310	13	1390	8.3	16.0	8.0	580	160	46	86
390717108400501 HUNTER WASH AT RIVER ROAD (LAT 39 07 17N LONG 108 40 05W)										
MAY 1998 12...	0800	40	1060	8.1	10.5	9.2	430	110	36	61
390747108405600 GOODWIN DRAIN AT HIGHWAY 50 (LAT 39 07 47N LONG 108 40 56W)										
MAY 1998 12...	0830	7.9	680	8.2	12.0	8.8	250	68	20	49
390938108443101 LITTLE SALT WASH AT HWY 50, AT FRUITA (LAT 39 09 38N LONG 108 44 31W)										
MAY 1998 12...	1230	80	724	8.3	15.5	8.2	250	66	21	52
09152900 ADOBE CREEK NEAR FRUITA, CO. (LAT 39 08 13N LONG 108 41 48W)										
MAY 1998 12...	1240	20	1140	8.2	14.0	8.7	450	120	35	75
09153300 REED WASH NEAR LOMA, CO. (LAT 39 11 01N LONG 108 47 12W)										
MAY 1998 13...	0830	155	1120	8.0	11.5	8.9	490	130	40	67
09153270 BIG SALT WASH AT FRUITA, CO. (LAT 39 09 49N LONG 108 45 01W)										
MAY 1998 13...	0845	95	1070	8.3	11.0	9.0	420	100	39	71
09163490 SALT CREEK NEAR MACK, CO. (LAT 39 13 18N LONG 108 53 32W)										
MAY 1998 13...	1300	264	1040	8.4	14.5	8.7	380	84	42	89
384448108070301 CUMMINGS GULCH AT MOUTH (LAT 38 44 48N LONG 108 07 03W)										
MAY 1998 14...	0910	46	1120	8.1	11.0	9.5	540	170	29	36
384408108091501 SEEP CREEK AT G ROAD, NEAR MOUTH (LAT 38 44 08N LONG 108 09 15W)										
MAY 1998 14...	0930	20	1180	8.2	11.0	8.8	560	170	34	52
09149500 UNCOMPAHGRE RIVER AT DELTA, CO. (LAT 38 44 31N LONG 108 04 49W)										
MAY 1998 14...	1335	560	819	8.1	11.5	8.8	330	94	24	42
384551107591901 UNNAMED DRAINAGE AT HIGHWAY 92 NEAR READ (LAT 38 45 51N LONG 107 59 19W)										
MAY 1998 14...	1415	22	1340	8.3	12.0	8.9	460	120	39	130

UPPER COLORADO RIVER BASIN SYNOPTIC SAMPLING IN AGRICULTURAL AREAS--Continued

(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH 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)
09137050 CURRANT CREEK NEAR READ, CO. (LAT 38 47 05N LONG 107 56 18W)										
MAY 1998										
15...	0845	32	1050	8.4	6.5	10.0	460	89	57	66
384649107570501 ALFALFA RUN AT AUSTIN (LAT 38 46 49N LONG 107 57 05W)										
MAY 1998										
15...	0900	4.5	1710	8.4	11.5	9.3	750	160	86	110
09144200 TONGUE CREEK AT CORY, CO. (LAT 38 47 16N LONG 107 59 41W)										
MAY 1998										
18...	1330	115	669	8.3	12.0	9.3	310	66	34	41
09150500 ROUBIDEAU CREEK AT MOUTH, NEAR DELTA, CO. (LAT 38 44 06N LONG 108 09 40W)										
MAY 1998										
18...	1430	566	253	8.1	12.0	9.0	110	31	7.5	8.7
384247108012401 GARNET CANAL ABOVE SWEITZER LAKE DIVERSION (LAT 38 42 47N LONG 108 01 24W)										
MAY 1998										
19...	0810	47	1530	8.2	12.0	8.6	570	150	49	130
384604107570701 PEACH VALLEY ARROYO NEAR MOUTH (LAT 38 46 04N LONG 107 57 07W)										
MAY 1998										
19...	0900	6.6	881	8.2	12.5	8.6	310	83	25	69
383834108001701 DRAIN AT BLOSSOM ROAD, NEAR CHIPETA (LAT 38 38 34N LONG 108 00 17W)										
MAY 1998										
19...	1300	1.4	1420	8.1	20.0	7.4	550	140	46	110
383953108001701 LOUTSENHIZER ARROYO BLW GARNET CANAL, AT MOUTH (LAT 38 39 53N LONG 108 00 17W)										
MAY 1998										
19...	1330	100	1450	8.2	13.5	8.4	570	150	49	110
384527108152701 GUNNISON RIVER AB ESCALANTE CREEK, NEAR DELTA (LAT 38 45 27N LONG 108 15 27W)										
MAY 1998										
20...	0900	7280	328	8.2	10.0	9.7	130	35	9.8	16
383201107575301 SPRING CREEK AT JAY-JAY ROAD (LAT 38 32 01N LONG 107 57 53W)										
MAY 1998										
20...	1330	193	365	8.1	13.0	8.0	160	45	12	11
384202108032001 DRY CREEK AT MOUTH, NEAR DELTA (LAT 38 42 02N LONG 108 03 20W)										
MAY 1998										
21...	1330	218	605	8.2	15.0	8.2	270	77	19	25
383041107544201 CEDAR CREEK NEAR MOUTH (LAT 38 30 41N LONG 107 54 42W)										
MAY 1998										
21...	1400	116	793	8.3	15.5	7.8	320	83	27	49
382831107530601 UNCOMPAHGRE RIVER AT MONTROSE (LAT 38 28 31N LONG 107 53 06W)										
MAY 1998										
21...	1900	429	429	8.3	12.0	8.7	180	53	11	17

UPPER COLORADO RIVER BASIN SYNOPTIC SAMPLING IN AGRICULTURAL AREAS--Continued

(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH 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)
382928107541101 HAPPY CANYON CREEK NEAR MOUTH (LAT 38 29 28N LONG 107 54 11W)										
MAY 1998 22...	0750	37	802	8.1	9.5	9.0	360	100	27	35

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 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)
390347108265800 33 ROAD DRAIN AT MOUTH NEAR CLIFTON (LAT 39 03 47N LONG 108 26 58W)									
MAY 1998 05...	2	4.2	284	--	233	490	56	0.3	12
09106200 LEWIS WASH NEAR GRAND JUNCTION, CO. (LAT 39 03 38N LONG 108 28 38W)									
MAY 1998 05...	1	2.8	159	5	138	70	28	0.1	11
390517108230501 DRAIN AT 36 ROAD, EAST ORCHARD MESA (LAT 39 05 17N LONG 108 23 05W)									
MAY 1998 05...	2	3.5	163	7	146	130	42	0.3	9.2
390322108253401 DRAIN, C 1/2 AND 33 3/4 ROADS, CEN.ORCHARD MESA (LAT 39 03 22N LONG 108 25 34W)									
MAY 1998 05...	1	3.7	273	--	224	870	110	1.3	17
390345108073301 DRAIN AT D AND 29 3/4 ROADS (LAT 39 03 45N LONG 108 07 33W)									
MAY 1998 06...	2	3.4	198	--	162	320	48	0.3	12
390319108312501 DRAIN AT C 1/2 AND 28 1/2 ROADS (LAT 39 03 19N LONG 108 31 25W)									
MAY 1998 06...	2	4.2	275	--	225	640	110	0.4	13
390320108315901 INDIAN WASH AT C 1/2 ROAD (LAT 39 03 20N LONG 108 31 59W)									
MAY 1998 06...	1	3.8	109	--	89	100	38	0.1	7.2
09152650 LEACH CREEK AT DURHAM, CO. (LAT 39 05 27N LONG 108 36 25W)									
MAY 1998 06...	1	3.6	192	--	157	380	50	0.3	11
09152600 ORCHARD MESA DRAIN AT GRAND JUNCTION, CO. (LAT 39 02 49N LONG 108 34 17W)									
MAY 1998 07...	1	2.3	181	--	150	230	45	0.3	12
390514108373201 DRAIN ALONG REDLANDS PARKWAY, AT MOUTH (LAT 39 05 14N LONG 108 37 32W)									
MAY 1998 07...	2	3.6	212	--	174	320	13	0.5	15

UPPER COLORADO RIVER BASIN SYNOPTIC SAMPLING IN AGRICULTURAL AREAS--Continued

(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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 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)
390529108385401 LIMEKILN GULCH NEAR MOUTH (LAT 39 05 29N LONG 108 38 54W)									
MAY 1998 07...	3	4.4	214	--	175	340	23	0.4	13
390624108374900 APPLETON DRAIN NEAR MOUTH AT G ROAD (LAT 39 06 24N LONG 108 37 49W)									
MAY 1998 07...	1	3.5	189	2	159	200	45	0.2	12
390645108390101 PERSIGO WASH AT RIVER ROAD (LAT 39 06 45N LONG 108 39 01W)									
MAY 1998 11...	2	3.8	185	--	152	390	57	0.3	11
390723108400500 COPECO DRAIN NEAR MOUTH AT HWY 50 (LAT 39 07 23N LONG 108 40 05W)									
MAY 1998 11...	2	3.9	203	5	174	480	70	0.3	12
390717108400501 HUNTER WASH AT RIVER ROAD (LAT 39 07 17N LONG 108 40 05W)									
MAY 1998 12...	1	3.9	178	--	146	320	53	0.3	11
390747108405600 GOODWIN DRAIN AT HIGHWAY 50 (LAT 39 07 47N LONG 108 40 56W)									
MAY 1998 12...	1	3.5	176	2	148	120	43	0.3	12
390938108443101 LITTLE SALT WASH AT HWY 50, AT FRUITA (LAT 39 09 38N LONG 108 44 31W)									
MAY 1998 12...	1	3.2	182	2	153	160	40	0.2	11
09152900 ADOBE CREEK NEAR FRUITA, CO. (LAT 39 08 13N LONG 108 41 48W)									
MAY 1998 12...	2	3.9	204	--	167	340	56	0.3	11
09153300 REED WASH NEAR LOMA, CO. (LAT 39 11 01N LONG 108 47 12W)									
MAY 1998 13...	1	4.1	200	--	164	360	52	0.3	11
09153270 BIG SALT WASH AT FRUITA, CO. (LAT 39 09 49N LONG 108 45 01W)									
MAY 1998 13...	2	3.5	228	2	191	320	42	0.3	13
09163490 SALT CREEK NEAR MACK, CO. (LAT 39 13 18N LONG 108 53 32W)									
MAY 1998 13...	2	2.8	220	--	180	300	38	0.3	13

UPPER COLORADO RIVER BASIN SYNOPTIC SAMPLING IN AGRICULTURAL AREAS--Continued

(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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 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)
384448108070301 CUMMINGS GULCH AT MOUTH (LAT 38 44 48N LONG 108 07 03W)									
MAY 1998 14...	0.7	3.0	171	--	140	450	7.1	0.9	16
384408108091501 SEEP CREEK AT G ROAD, NEAR MOUTH (LAT 38 44 08N LONG 108 09 15W)									
MAY 1998 14...	1	3.4	178	2	150	490	6.5	0.7	15
09149500 UNCOMPAHGRE RIVER AT DELTA, CO. (LAT 38 44 31N LONG 108 04 49W)									
MAY 1998 14...	1	2.8	150	--	123	290	5.5	0.5	12
384551107591901 UNNAMED DRAINAGE AT HIGHWAY 92 NEAR READ (LAT 38 45 51N LONG 107 59 19W)									
MAY 1998 14...	3	5.3	171	7	152	560	8.9	0.4	13
09137050 CURRANT CREEK NEAR READ, CO. (LAT 38 47 05N LONG 107 56 18W)									
MAY 1998 15...	1	4.9	168	--	138	430	4.7	0.3	15
384649107570501 ALFALFA RUN AT AUSTIN (LAT 38 46 49N LONG 107 57 05W)									
MAY 1998 15...	2	9.1	270	7	233	720	12	0.7	28
09144200 TONGUE CREEK AT CORY, CO. (LAT 38 47 16N LONG 107 59 41W)									
MAY 1998 18...	1	3.9	174	--	143	190	3.1	0.3	23
09150500 ROUBIDEAU CREEK AT MOUTH, NEAR DELTA, CO. (LAT 38 44 06N LONG 108 09 40W)									
MAY 1998 18...	0.4	1.3	63	--	52	61	1.7	0.2	6.6
384247108012401 GARNET CANAL ABOVE SWEITZER LAKE DIVERSION (LAT 38 42 47N LONG 108 01 24W)									
MAY 1998 19...	2	5.3	192	--	157	660	13	0.4	14
384604107570701 PEACH VALLEY ARROYO NEAR MOUTH (LAT 38 46 04N LONG 107 57 07W)									
MAY 1998 19...	2	3.1	146	5	128	320	4.8	0.3	15
383834108001701 DRAIN AT BLOSSOM ROAD, NEAR CHIPETA (LAT 38 38 34N LONG 108 00 17W)									
MAY 1998 19...	2	5.5	199	5	171	590	10	0.4	16
383953108001701 LOUTSENHIZER ARROYO BLW GARNET CANAL, AT MOUTH (LAT 38 39 53N LONG 108 00 17W)									
MAY 1998 19...	2	5.5	190	--	156	630	12	0.4	15
384527108152701 GUNNISON RIVER AB ESCALANTE CREEK, NEAR DELTA (LAT 38 45 27N LONG 108 15 27W)									
MAY 1998 20...	0.6	1.6	82	2	71	78	2.1	0.2	11

UPPER COLORADO RIVER BASIN SYNOPTIC SAMPLING IN AGRICULTURAL AREAS--Continued

(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
383201107575301 SPRING CREEK AT JAY-JAY ROAD (LAT 38 32 01N LONG 107 57 53W)									
MAY 1998									
20...	0.4	1.9	90	2	78	91	1.9	0.2	10
384202108032001 DRY CREEK AT MOUTH, NEAR DELTA (LAT 38 42 02N LONG 108 03 20W)									
MAY 1998									
21...	0.7	2.2	129	--	106	190	3.4	0.4	12
383041107544201 CEDAR CREEK NEAR MOUTH (LAT 38 30 41N LONG 107 54 42W)									
MAY 1998									
21...	1	3.3	129	5	114	280	5.0	0.2	16
382831107530601 UNCOMPAHGRE RIVER AT MONTROSE (LAT 38 28 31N LONG 107 53 06W)									
MAY 1998									
21...	0.6	2.1	111	2	95	110	2.3	0.3	14
382928107541101 HAPPY CANYON CREEK NEAR MOUTH (LAT 38 29 28N LONG 107 54 11W)									
MAY 1998									
22...	0.8	4.1	217	2	182	240	5.7	0.4	16

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
390347108265800 33 ROAD DRAIN AT MOUTH NEAR CLIFTON (LAT 39 03 47N LONG 108 26 58W)									
MAY 1998									
05...	1050	1000	1.43	47.1	0.05	5.2	0.49	3.0	0.8
09106200 LEWIS WASH NEAR GRAND JUNCTION, CO. (LAT 39 03 38N LONG 108 28 38W)									
MAY 1998									
05...	312	293	0.42	13.2	0.01	0.48	0.06	1.8	0.3
390517108230501 DRAIN AT 36 ROAD, EAST ORCHARD MESA (LAT 39 05 17N LONG 108 23 05W)									
MAY 1998									
05...	448	404	0.61	0.91	<0.01	0.07	0.03	0.8	0.2
390322108253401 DRAIN, C 1/2 AND 33 3/4 ROADS, CEN.ORCHARD MESA (LAT 39 03 22N LONG 108 25 34W)									
MAY 1998									
05...	1810	1630	2.46	1.61	<0.01	0.37	0.05	0.5	0.2
390345108073301 DRAIN AT D AND 29 3/4 ROADS (LAT 39 03 45N LONG 108 07 33W)									
MAY 1998									
06...	752	688	1.02	3.05	<0.01	0.58	0.05	1.2	0.3
390319108312501 DRAIN AT C 1/2 AND 28 1/2 ROADS (LAT 39 03 19N LONG 108 31 25W)									
MAY 1998									
06...	1420	1280	1.93	8.26	0.01	0.49	0.05	1.7	0.4

UPPER COLORADO RIVER BASIN SYNOPTIC SAMPLING IN AGRICULTURAL AREAS--Continued

(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
390320108315901 INDIAN WASH AT C 1/2 ROAD (LAT 39 03 20N LONG 108 31 59W)									
MAY 1998									
06...	352	309	0.48	71.5	0.01	1.3	0.41	5.8	1.2
09152650 LEACH CREEK AT DURHAM, CO. (LAT 39 05 27N LONG 108 36 25W)									
MAY 1998									
06...	828	773	1.13	80.0	0.01	1.1	0.04	2.0	0.3
09152600 ORCHARD MESA DRAIN AT GRAND JUNCTION, CO. (LAT 39 02 49N LONG 108 34 17W)									
MAY 1998									
07...	597	552	0.81	20.5	<0.01	0.60	0.03	1.6	0.3
390514108373201 DRAIN ALONG REDLANDS PARKWAY, AT MOUTH (LAT 39 05 14N LONG 108 37 32W)									
MAY 1998									
07...	701	648	0.95	4.43	<0.01	0.97	0.03	0.5	0.3
390529108385401 LIMEKILN GULCH NEAR MOUTH (LAT 39 05 29N LONG 108 38 54W)									
MAY 1998									
07...	762	709	1.04	8.64	0.01	0.51	0.07	0.7	0.5
390624108374900 APPLETON DRAIN NEAR MOUTH AT G ROAD (LAT 39 06 24N LONG 108 37 49W)									
MAY 1998									
07...	552	512	0.75	11.3	0.01	0.70	0.06	1.7	0.4
390645108390101 PERSIGO WASH AT RIVER ROAD (LAT 39 06 45N LONG 108 39 01W)									
MAY 1998									
11...	866	804	1.18	74.4	0.02	1.2	0.10	0.9	0.4
390723108400500 COPECO DRAIN NEAR MOUTH AT HWY 50 (LAT 39 07 23N LONG 108 40 05W)									
MAY 1998									
11...	1020	964	1.38	34.9	0.01	1.2	0.05	1.1	0.3
390717108400501 HUNTER WASH AT RIVER ROAD (LAT 39 07 17N LONG 108 40 05W)									
MAY 1998									
12...	762	692	1.04	82.3	0.02	1.3	0.09	2.6	0.4
390747108405600 GOODWIN DRAIN AT HIGHWAY 50 (LAT 39 07 47N LONG 108 40 56W)									
MAY 1998									
12...	434	410	0.59	9.28	0.04	0.66	0.12	0.9	0.5
390938108443101 LITTLE SALT WASH AT HWY 50, AT FRUITA (LAT 39 09 38N LONG 108 44 31W)									
MAY 1998									
12...	473	444	0.64	103	<0.01	0.57	0.07	2.1	0.3
09152900 ADOBE CREEK NEAR FRUITA, CO. (LAT 39 08 13N LONG 108 41 48W)									
MAY 1998									
12...	794	752	1.08	43.5	0.05	1.9	0.12	1.7	0.4
09153300 REED WASH NEAR LOMA, CO. (LAT 39 11 01N LONG 108 47 12W)									
MAY 1998									
13...	802	769	1.09	336	0.02	1.2	0.06	2.2	0.4

UPPER COLORADO RIVER BASIN SYNOPTIC SAMPLING IN AGRICULTURAL AREAS--Continued

(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
09153270 BIG SALT WASH AT FRUITA, CO. (LAT 39 09 49N LONG 108 45 01W)									
MAY 1998									
13...	758	708	1.03	194	0.01	0.76	0.05	2.0	0.3
09163490 SALT CREEK NEAR MACK, CO. (LAT 39 13 18N LONG 108 53 32W)									
MAY 1998									
13...	720	679	0.98	513	<0.01	0.60	0.04	0.3	0.2
384448108070301 CUMMINGS GULCH AT MOUTH (LAT 38 44 48N LONG 108 07 03W)									
MAY 1998									
14...	878	813	1.19	108	0.02	4.8	0.04	1.2	0.5
384408108091501 SEEP CREEK AT G ROAD, NEAR MOUTH (LAT 38 44 08N LONG 108 09 15W)									
MAY 1998									
14...	940	873	1.28	49.5	0.05	3.3	0.08	0.9	0.6
09149500 UNCOMPAHGRE RIVER AT DELTA, CO. (LAT 38 44 31N LONG 108 04 49W)									
MAY 1998									
14...	601	553	0.82	909	0.02	1.6	0.03	0.5	0.4
384551107591901 UNNAMED DRAINAGE AT HIGHWAY 92 NEAR READ (LAT 38 45 51N LONG 107 59 19W)									
MAY 1998									
14...	1010	973	1.38	60.5	0.04	1.7	0.11	1.1	0.6
09137050 CURRANT CREEK NEAR READ, CO. (LAT 38 47 05N LONG 107 56 18W)									
MAY 1998									
15...	800	751	1.09	68.7	<0.01	0.46	0.05	0.3	0.4
384649107570501 ALFALFA RUN AT AUSTIN (LAT 38 46 49N LONG 107 57 05W)									
MAY 1998									
15...	1380	1280	1.87	16.8	<0.01	1.2	<0.02	0.8	0.4
09144200 TONGUE CREEK AT CORY, CO. (LAT 38 47 16N LONG 107 59 41W)									
MAY 1998									
18...	465	454	0.63	144	<0.01	0.48	0.03	0.4	0.3
09150500 ROUBIDEAU CREEK AT MOUTH, NEAR DELTA, CO. (LAT 38 44 06N LONG 108 09 40W)									
MAY 1998									
18...	171	150	0.23	261	0.01	0.20	0.06	0.5	0.3
384247108012401 GARNET CANAL ABOVE SWEITZER LAKE DIVERSION (LAT 38 42 47N LONG 108 01 24W)									
MAY 1998									
19...	1200	1130	1.63	153	0.02	2.3	0.07	1.1	0.5
384604107570701 PEACH VALLEY ARROYO NEAR MOUTH (LAT 38 46 04N LONG 107 57 07W)									
MAY 1998									
19...	628	600	0.85	11.2	<0.01	0.58	0.02	0.6	0.3

UPPER COLORADO RIVER BASIN SYNOPTIC SAMPLING IN AGRICULTURAL AREAS--Continued

(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
383834108001701 DRAIN AT BLOSSOM ROAD, NEAR CHIPETA (LAT 38 38 34N LONG 108 00 17W)									
MAY 1998 19...	1090	1030	1.48	4.26	0.03	2.4	0.53	1.3	1.0
383953108001701 LOUTSENHIZER ARROYO BLW GARNET CANAL, AT MOUTH (LAT 38 39 53N LONG 108 00 17W)									
MAY 1998 19...	1120	1070	1.53	303	0.03	2.4	0.07	0.6	0.5
384527108152701 GUNNISON RIVER AB ESCALANTE CREEK, NEAR DELTA (LAT 38 45 27N LONG 108 15 27W)									
MAY 1998 20...	217	199	0.30	4270	<0.01	0.28	0.05	0.6	0.2
383201107575301 SPRING CREEK AT JAY-JAY ROAD (LAT 38 32 01N LONG 107 57 53W)									
MAY 1998 20...	246	224	0.33	128	0.01	0.55	0.06	0.9	0.3
384202108032001 DRY CREEK AT MOUTH, NEAR DELTA (LAT 38 42 02N LONG 108 03 20W)									
MAY 1998 21...	425	401	0.58	250	0.03	1.4	0.09	1.0	0.5
383041107544201 CEDAR CREEK NEAR MOUTH (LAT 38 30 41N LONG 107 54 42W)									
MAY 1998 21...	559	537	0.76	175	0.01	0.44	0.06	0.7	0.3
382831107530601 UNCOMPAHGRE RIVER AT MONTROSE (LAT 38 28 31N LONG 107 53 06W)									
MAY 1998 21...	286	269	0.39	331	0.01	0.09	0.06	0.3	0.2
382928107541101 HAPPY CANYON CREEK NEAR MOUTH (LAT 38 29 28N LONG 107 54 11W)									
MAY 1998 22...	575	546	0.78	57.3	0.02	1.4	0.04	0.7	0.3

DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
390347108265800 33 ROAD DRAIN AT MOUTH NEAR CLIFTON (LAT 39 03 47N LONG 108 26 58W)									
MAY 1998 05...	1.1	0.17	0.15	5.0	15	<10	86	885	40
09106200 LEWIS WASH NEAR GRAND JUNCTION, CO. (LAT 39 03 38N LONG 108 28 38W)									
MAY 1998 05...	0.81	0.01	0.02	4.2	>25	<10	<4	2320	98
390517108230501 DRAIN AT 36 ROAD, EAST ORCHARD MESA (LAT 39 05 17N LONG 108 23 05W)									
MAY 1998 05...	0.11	<0.01	<0.01	4.5	2.7	<10	<4	49	0.10

UPPER COLORADO RIVER BASIN SYNOPTIC SAMPLING IN AGRICULTURAL AREAS--Continued

(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
390322108253401 DRAIN, C 1/2 AND 33 3/4 ROADS, CEN.ORCHARD MESA (LAT 39 03 22N LONG 108 25 34W)									
MAY 1998									
05...	0.05	<0.01	0.01	3.2	0.5	<30	64	39	0.03
390345108073301 DRAIN AT D AND 29 3/4 ROADS (LAT 39 03 45N LONG 108 07 33W)									
MAY 1998									
06...	0.53	<0.01	0.01	5.1	4.9	<10	150	482	2.0
390319108312501 DRAIN AT C 1/2 AND 28 1/2 ROADS (LAT 39 03 19N LONG 108 31 25W)									
MAY 1998									
06...	0.76	0.07	0.08	5.1	5.7	<10	230	595	3.5
390320108315901 INDIAN WASH AT C 1/2 ROAD (LAT 39 03 20N LONG 108 31 59W)									
MAY 1998									
06...	2.1	0.09	0.08	18	>20	26	84	2930	596
09152650 LEACH CREEK AT DURHAM, CO. (LAT 39 05 27N LONG 108 36 25W)									
MAY 1998									
06...	1.0	0.02	0.03	4.4	12	<10	30	1200	116
09152600 ORCHARD MESA DRAIN AT GRAND JUNCTION, CO. (LAT 39 02 49N LONG 108 34 17W)									
MAY 1998									
07...	0.81	0.03	0.03	4.2	8.8	<10	37	974	33
390514108373201 DRAIN ALONG REDLANDS PARKWAY, AT MOUTH (LAT 39 05 14N LONG 108 37 32W)									
MAY 1998									
07...	0.08	<0.01	0.01	5.1	0.8	17	43	83	0.53
390529108385401 LIMEKILN GULCH NEAR MOUTH (LAT 39 05 29N LONG 108 38 54W)									
MAY 1998									
07...	0.12	0.03	0.04	7.0	1.0	12	58	161	1.8
390624108374900 APPLETON DRAIN NEAR MOUTH AT G ROAD (LAT 39 06 24N LONG 108 37 49W)									
MAY 1998									
07...	0.83	0.06	0.06	5.2	8.0	<10	36	908	19
390645108390101 PERSIGO WASH AT RIVER ROAD (LAT 39 06 45N LONG 108 39 01W)									
MAY 1998									
11...	0.39	0.10	0.10	4.5	6.3	<10	43	587	50
390723108400500 COPECO DRAIN NEAR MOUTH AT HWY 50 (LAT 39 07 23N LONG 108 40 05W)									
MAY 1998									
11...	0.51	0.04	0.05	4.6	4.9	<10	58	501	17
390717108400501 HUNTER WASH AT RIVER ROAD (LAT 39 07 17N LONG 108 40 05W)									
MAY 1998									
12...	1.4	0.12	0.12	4.9	21	<10	78	2310	249
390747108405600 GOODWIN DRAIN AT HIGHWAY 50 (LAT 39 07 47N LONG 108 40 56W)									
MAY 1998									
12...	0.36	0.12	0.12	5.1	5.0	<10	58	491	11

UPPER COLORADO RIVER BASIN SYNOPTIC SAMPLING IN AGRICULTURAL AREAS--Continued

(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
390938108443101 LITTLE SALT WASH AT HWY 50, AT FRUITA (LAT 39 09 38N LONG 108 44 31W)									
MAY 1998 12...	0.90	0.08	0.09	4.3	12	<10	11	1210	264
09152900 ADOBE CREEK NEAR FRUITA, CO. (LAT 39 08 13N LONG 108 41 48W)									
MAY 1998 12...	0.80	0.09	0.09	4.5	--	<10	51	699	38
09153300 REED WASH NEAR LOMA, CO. (LAT 39 11 01N LONG 108 47 12W)									
MAY 1998 13...	1.3	0.22	0.22	4.9	10	<10	13	1240	517
09153270 BIG SALT WASH AT FRUITA, CO. (LAT 39 09 49N LONG 108 45 01W)									
MAY 1998 13...	1.2	0.10	0.12	4.6	9.7	<10	13	1570	403
09163490 SALT CREEK NEAR MACK, CO. (LAT 39 13 18N LONG 108 53 32W)									
MAY 1998 13...	0.03	<0.01	0.02	3.8	14	<10	7	3790	2700
384448108070301 CUMMINGS GULCH AT MOUTH (LAT 38 44 48N LONG 108 07 03W)									
MAY 1998 14...	0.20	0.06	0.07	5.2	5.0	<10	17	419	51
384408108091501 SEEP CREEK AT G ROAD, NEAR MOUTH (LAT 38 44 08N LONG 108 09 15W)									
MAY 1998 14...	0.19	0.05	0.07	5.6	6.8	<10	35	807	43
09149500 UNCOMPAHGRE RIVER AT DELTA, CO. (LAT 38 44 31N LONG 108 04 49W)									
MAY 1998 14...	0.08	0.06	0.05	5.0	3.8	<10	16	413	625
384551107591901 UNNAMED DRAINAGE AT HIGHWAY 92 NEAR READ (LAT 38 45 51N LONG 107 59 19W)									
MAY 1998 14...	0.43	0.12	0.12	6.4	3.1	<10	14	365	22
09137050 CURRANT CREEK NEAR READ, CO. (LAT 38 47 05N LONG 107 56 18W)									
MAY 1998 15...	0.03	0.04	0.03	6.5	3.5	<10	44	347	30
384649107570501 ALFALFA RUN AT AUSTIN (LAT 38 46 49N LONG 107 57 05W)									
MAY 1998 15...	0.17	0.05	0.05	5.5	3.8	<10	6	111	1.4
09144200 TONGUE CREEK AT CORY, CO. (LAT 38 47 16N LONG 107 59 41W)									
MAY 1998 18...	0.05	0.04	0.05	4.3	3.9	<10	22	525	163
09150500 ROUBIDEAU CREEK AT MOUTH, NEAR DELTA, CO. (LAT 38 44 06N LONG 108 09 40W)									
MAY 1998 18...	0.14	<0.01	0.01	6.8	1.9	32	9	304	464

UPPER COLORADO RIVER BASIN SYNOPTIC SAMPLING IN AGRICULTURAL AREAS--Continued

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
384247108012401 GARNET CANAL ABOVE SWEITZER LAKE DIVERSION (LAT 38 42 47N LONG 108 01 24W)									
MAY 1998									
19...	0.60	0.11	0.10	6.1	2.3	<10	26	458	59
384604107570701 PEACH VALLEY ARROYO NEAR MOUTH (LAT 38 46 04N LONG 107 57 07W)									
MAY 1998									
19...	0.25	<0.01	0.02	4.0	3.0	<10	<4	426	7.6
383834108001701 DRAIN AT BLOSSOM ROAD, NEAR CHIPETA (LAT 38 38 34N LONG 108 00 17W)									
MAY 1998									
19...	0.19	0.09	0.09	6.3	0.8	10	32	60	0.23
383953108001701 LOUTSENHIZER ARROYO BLW GARNET CANAL, AT MOUTH (LAT 38 39 53N LONG 108 00 17W)									
MAY 1998									
19...	0.19	0.13	0.13	5.8	5.3	<10	19	661	178
384527108152701 GUNNISON RIVER AB ESCALANTE CREEK, NEAR DELTA (LAT 38 45 27N LONG 108 15 27W)									
MAY 1998									
20...	0.22	<0.01	<0.01	4.3	1.8	<10	9	349	6870
383201107575301 SPRING CREEK AT JAY-JAY ROAD (LAT 38 32 01N LONG 107 57 53W)									
MAY 1998									
20...	0.23	0.02	0.03	7.5	3.1	23	16	404	211
384202108032001 DRY CREEK AT MOUTH, NEAR DELTA (LAT 38 42 02N LONG 108 03 20W)									
MAY 1998									
21...	0.28	0.04	0.05	5.7	2.3	<10	18	425	250
383041107544201 CEDAR CREEK NEAR MOUTH (LAT 38 30 41N LONG 107 54 42W)									
MAY 1998									
21...	0.21	0.06	0.06	4.5	1.8	<10	12	503	158
382831107530601 UNCOMPAHGRE RIVER AT MONTROSE (LAT 38 28 31N LONG 107 53 06W)									
MAY 1998									
21...	0.15	0.02	0.02	3.4	0.9	<10	10	106	122
382928107541101 HAPPY CANYON CREEK NEAR MOUTH (LAT 38 29 28N LONG 107 54 11W)									
MAY 1998									
22...	0.26	0.08	0.07	3.7	1.8	<10	20	223	22

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^{0}	kilometer
	Area	
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
	Volume	
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
	Flow	
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
	Mass	
ton (short)	9.072×10^{-1}	megagram or metric ton

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.