Water Resources Data
Colorado
Water Year 1997

Volume 2. Colorado River Basin

By R.M. Crowfoot, A.V. Paillet, G.F. Ritz, M.E. Smith,
R.A. Jenkins, and G.B. O'Neill

Water-Data Report CO–97–2

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

UNITED STATES DEPARTMENT OF THE INTERIOR

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Lakewood, CO 80225

1998

CALENDAR FOR WATER YEAR 1997

1996

OCTOBER

S	M	T	W	T	F	S
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NOVEMBER

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1997

JANUARY

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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 1997 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 327 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 30 crest-stage partial-record stations; water-quality for 129 gaging stations and for 7 lakes and reservoirs, supplemental water-quality for 186 gaged sites; water-quality for 25 miscellaneous sites and 14 observation wells; water levels for 3 observation wells, and meteorological data for 34 sites. Eight 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.

14. SUBJECT TERMS
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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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Rio Blanco below Blanco diversion dam, near Pagosa Springs (D)	09343300	456
Navajo River below Oso diversion dam, near Chromo (D)	09344400	457
San Juan River near Carracas (D)	09346400	458
Piedra River near Arboles (D)	09349800	459
Los Pinos River:		
Vallecito Creek near Bayfield (D)	09352900	460
Vallecito Reservoir near Bayfield (e)	09353000	461
Los Pinos River at La Boca (D)	09354500	462
Spring Creek at La Boca (D)	09355000	463
Animas River at Silverton (D)	09358000	464
Cement Creek at Silverton (D)	09358550	465
Mineral Creek at Silverton (D)	09359010	466
Animas River below Silverton (Dtc)	09359020	467
Animas River at Durango (D)	09361500	470
Wilson Gulch near Durango (D)	09362550	471
Rainbow Springs Trout Ranch near Bondad (D)	09362600	472
Lemon Reservoir near Durango (e)	09362800	473
Highway Spring, near Loma Linda (D)	09363070	474
Animas River near Cedar Hill, NM (D)	09363500	475
La Plata River at Hesperus (D)	09365500	476
La Plata River at Colorado-New Mexico State line (D)	09366500	477
Mancos River near Towaoc (D)	09371000	478
San Juan River at Four Corners (D)	09371010	479
McElmo Creek:		
Mud Creek at Highway 32, near Cortez (DctCT)	09371492	480
McElmo Creek above Trail Canyon, near Cortez (DctCT)	09371520	485
McElmo Creek near Colorado-Utah State line (Dct)	09372000	490

VOLUME 2: COLORADO RIVER BASIN

By R.M. Crowfoot, A.V. Paillet, 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 175 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, miscellaneous surface-water-quality data for 111 gaged sites, 20 miscellaneous sites; and (4) ground-water level records for 2 sites, and meteorological data for 11 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. Four 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-97-2." 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.

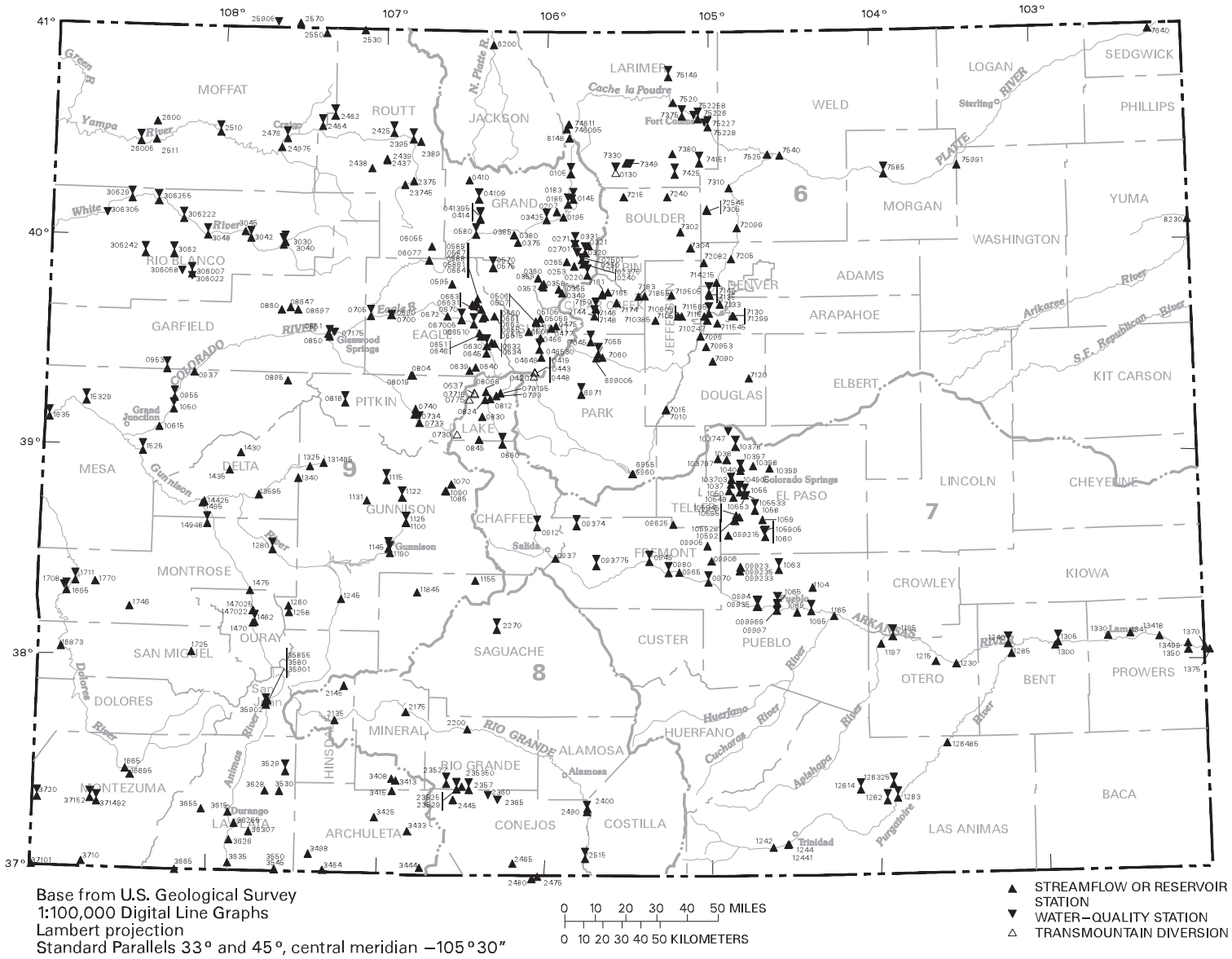


Figure 1.--Map showing locations of lake and surface-water stations and surface-water-quality stations in Colorado.

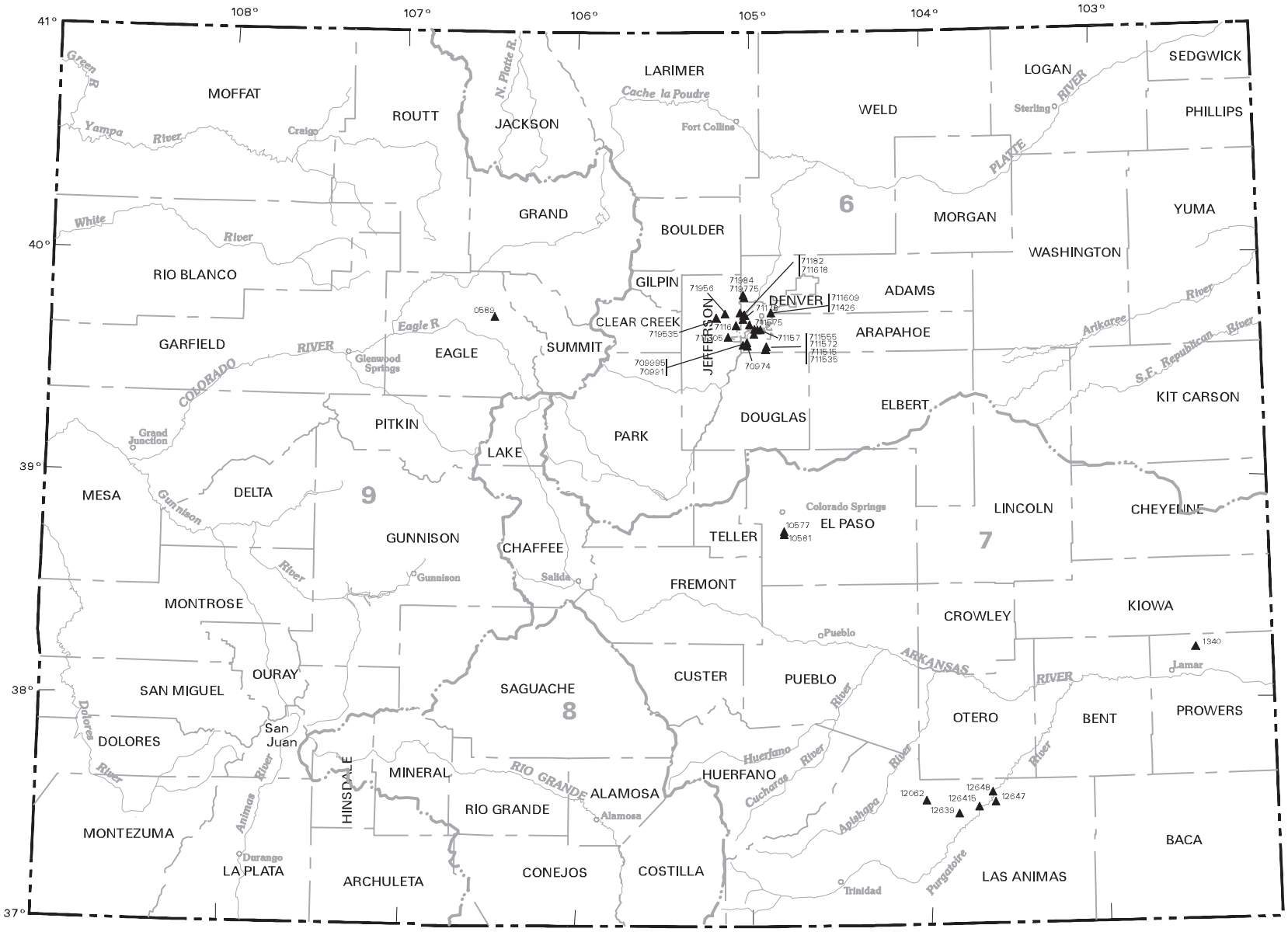


Figure 2.--Map showing locations of crest-stage partial-record stations in Colorado.

COOPERATION

The U.S. Geological Survey and organizations of 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 assisted in collecting data for this report through cooperative agreement with the Survey 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 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.
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.
Garfield County.
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.
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.
Teller - Park Soil Conservation District.
Town of Basalt.
Town of Breckenridge.
Town of Central City.
Town of Crested Butte.
Town of Empire.
Town of Hotchkiss.
Town of Meeker.
Town of Rangely.
Trinchera Water Conservancy District.
Upper Arkansas River Water Conservancy District.
Upper Eagle Regional Water Authority.
Upper Gunnison River 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; 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 1997 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 24 percent greater than normal for the Colorado Drainage Basin. During April-September, precipitation was 52 percent greater 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 1997 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 1997 and departures-from-normal precipitation (1961–90), in inches

National Weather Service division	October–March		April–September		Water year 1997	
	Precipitation	Departure from normal	Precipitation	Departure from normal	Precipitation	Departure from normal
Colorado Drainage Basin	9.66	1.86	12.66	4.31	22.32	6.17

Streamflow

Monthly mean discharges during water year 1997 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. The graphs indicate that monthly mean discharges during the water year had general temporal trends similar to the long-term mean monthly discharges. However, monthly mean discharges during April-September consistently were higher than long-term mean monthly discharges for the same period; the greatest differences occurred during May-June. Annual mean discharges for 1997 ranged from 34 percent greater than the long-term mean (gaging station 09304500, White River near Meeker) to 64 percent greater than the long-term mean (gaging station 09251000, Yampa River near Maybell).

For water year 1997, the graphs indicate that the highest monthly mean discharges occurred in June at all selected gaging stations. This is consistent with the long-term trends at these sites, except gaging station 09251000, Yampa River near Maybell, where the highest monthly discharge normally occurs in May.

For May and June 1997, the 2-month mean discharge exceeded the long-term, mean 2-month discharge by 54 percent at gaging station 09070000, Eagle River below Gypsum; by 76 percent at gaging station 09114500, Gunnison River near Gunnison; by 65 percent at gaging station 09163500, Colorado River near Colorado-Utah State line; by 46 percent at gaging station 09172500, San Miguel River near Placerville; by 69 percent at gaging station 09251000, Yampa River near Maybell; by 44 percent at gaging station 09304500, White River near Meeker; and by 47 percent at gaging station 09361500, Animas River at Durango. Variations of spring 1997 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 1997 and for the period of record (through previous water year) for selected gaging stations are listed in table 2. Water year 1997 peak discharges were greater than the 75th-percentile value for the period of record at gaging stations 09034250, Colorado River at Windy Gap near Granby (4th highest); 09070000, Eagle River below Gypsum; 09070500, Colorado River near Dotsero (5th highest); 09085100, Colorado River below Glenwood Springs (4th highest); 09095500, Colorado River near Cameo; 09114500, Gunnison River near Gunnison; 09163500, Colorado River near Colorado-Utah State line; 09166500, Dolores River at Dolores; 09239500, Yampa River at Steamboat Springs; 09251000, Yampa River near Maybell (2d highest); 09304500, White River near Meeker; and 09361500, Animas River at Durango. Water year 1997 peak discharges at the other gaging stations listed in table 2 were within the middle 50 percent of the long-term discharge distribution.

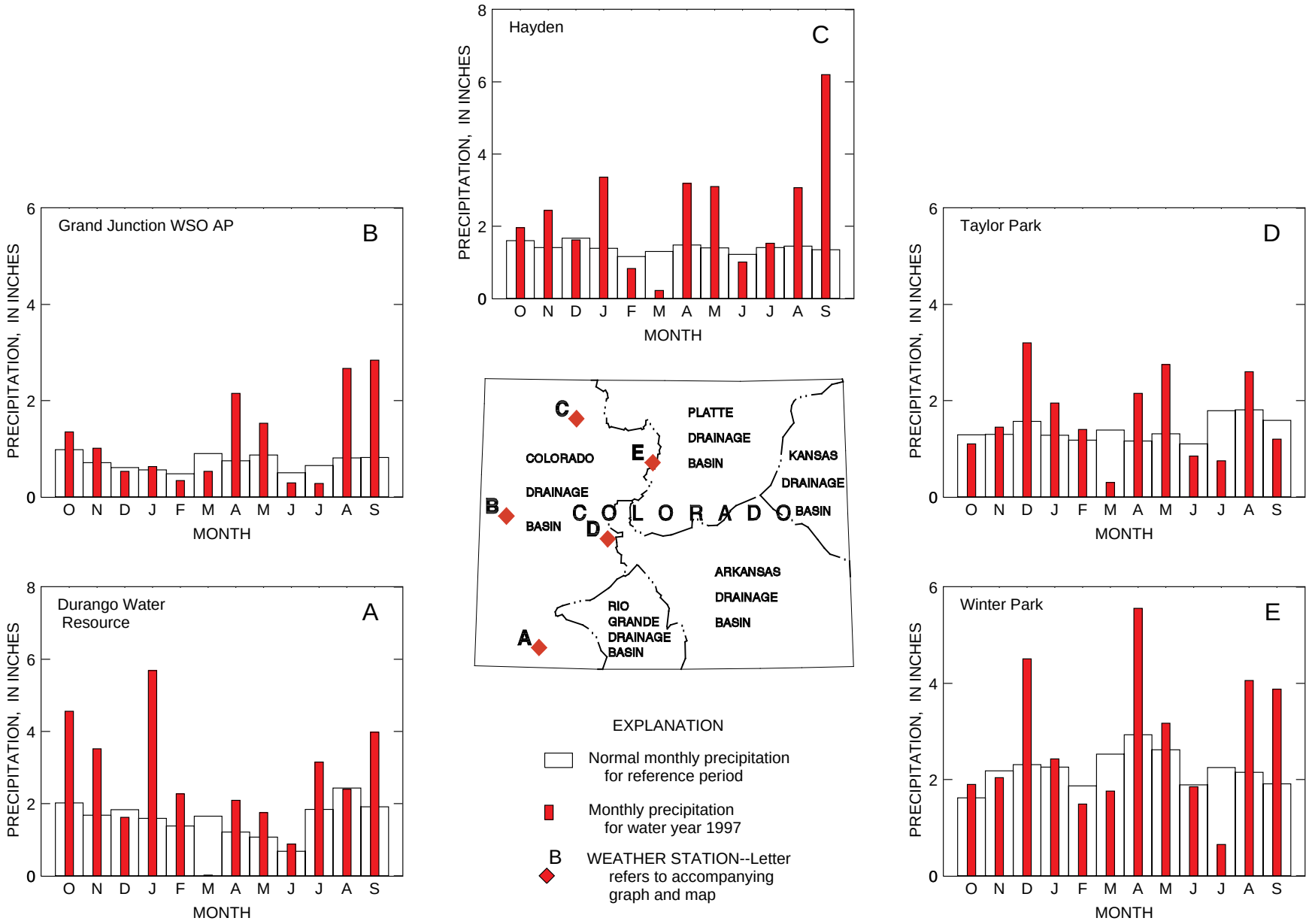
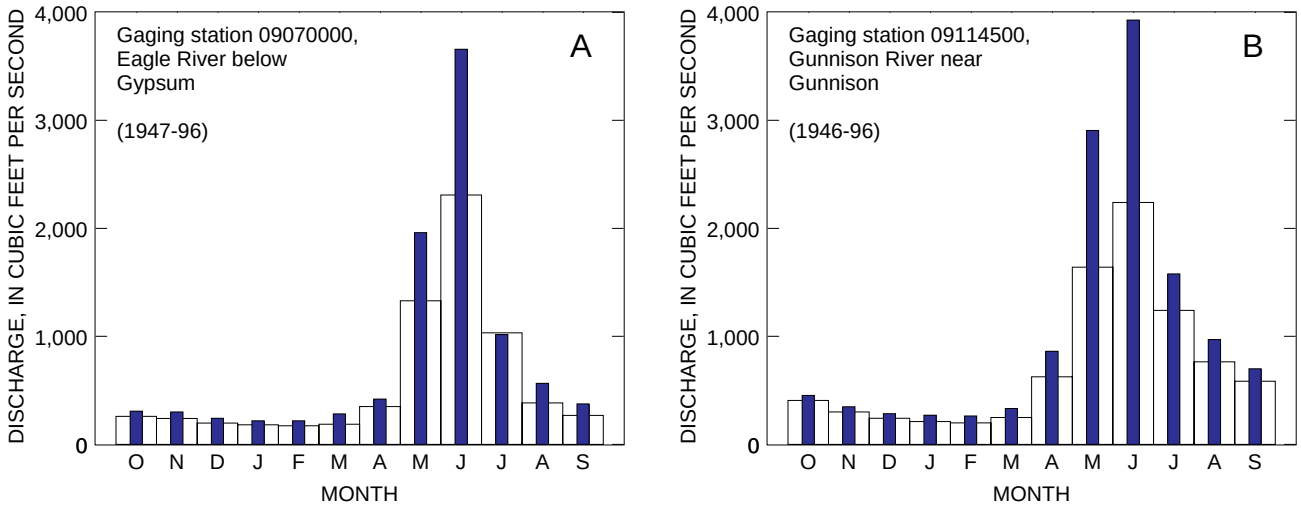


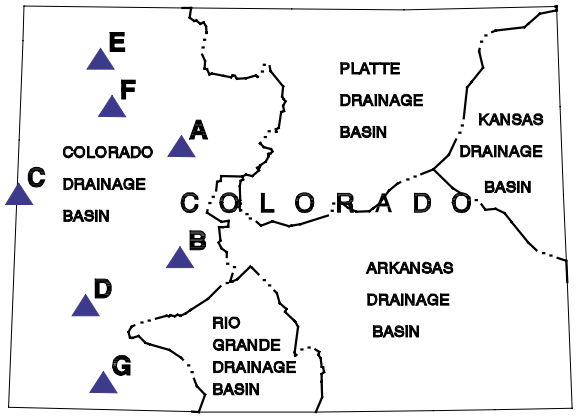
Figure 3.--Comparison of monthly precipitation for water year 1997 to normal monthly precipitation for the reference period 1961–90.

Table 2. Peak discharges for water year 1997 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 1997		Period of record		Remarks on WY 1997 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	1982-96	6/9	4,470	5/25/84	5,260	Greater than 75th percentile (4th highest)
09070000	Eagle River below Gypsum	945	1947-96	6/5	5,780	5/25/84	7,020	Greater than 75th percentile
09070500	Colorado River near Dotsero	4,394	1941-96	6/4	16,100	5/25/84	22,200	Greater than 75th percentile (5th highest)
09085000	Roaring Fork River at Glenwood Springs	1,451	1906-09, 1911-96	6/8	8,170	7/1/57	19,000	Less than median
09085100	Colorado River below Glenwood Springs	6,013	1967-96	6/5	23,400	5/25/84	31,500	Greater than 75th percentile (4th highest)
09095500	Colorado River near Cameo	8,050	1934-96	6/5	26,300	5/26/84	39,300	Greater than 75th percentile
09114500	Gunnison River near Gunnison	1,012	1911-27, 1945-96	6/9	6,010	6/13/18	11,400	Greater than 75th percentile
09132500	North Fork Gunnison River near Somerset	526	1934-96	5/15	3,590	5/24/84	9,220	Greater than median
09149500	Uncompahgre River at Delta	1,115	1903-31, 1939-96	5/26	2,150	5/15/84	5,800	Less than 75th percentile
09152500	Gunnison River near Grand Junction	7,928	1897-99, 1902-6, 1917-96	5/26	12,900	5/23/20	35,700	Greater than median
09163500	Colorado River near Colorado-Utah State line	17,843	1951-96	6/10	37,500	5/27/84	69,800	Greater than 75th percentile
09166500	Dolores River at Dolores	504	1896-1903, 1911-12, 1922-96	6/2	4,840	10/5/11	10,000	Greater than 75th percentile
09171100	Dolores River near Bedrock	2,145	1970-96	5/25	4,120	4/30/73	9,500	Less than median
09239500	Yampa River at Steamboat Springs	604	1904-6, 1910-96	6/3	5,310	6/14/21	6,820	Greater than 75th percentile
09251000	Yampa River near Maybell	3,410	1904-5, 1916-96	6/4	18,800	5/17/84	25,100	Greater than 75th percentile (2d highest)
09304500	White River near Meeker	755	1901-5, 1910-96	6/3	4,080	5/25/84	6,950	Greater than 75th percentile
09346400	San Juan River near Carracas	1,230	1962-96	6/2	4,650	9/6/70	9,730	Greater than median
09361500	Animas River at Durango	692	1912-96	6/2	7,220	10/5/11	25,000	Greater than 75th percentile





EXPLANATION

Mean monthly discharge for reference period

Monthly mean discharge for water year 1997

A GAGING STATION--Letter refers to accompanying graph and map

(1947-96) REFERENCE PERIOD

Figure 4.--Comparison of monthly discharges for water year 1997 to mean monthly discharges for the reference periods indicated on the individual graphs.

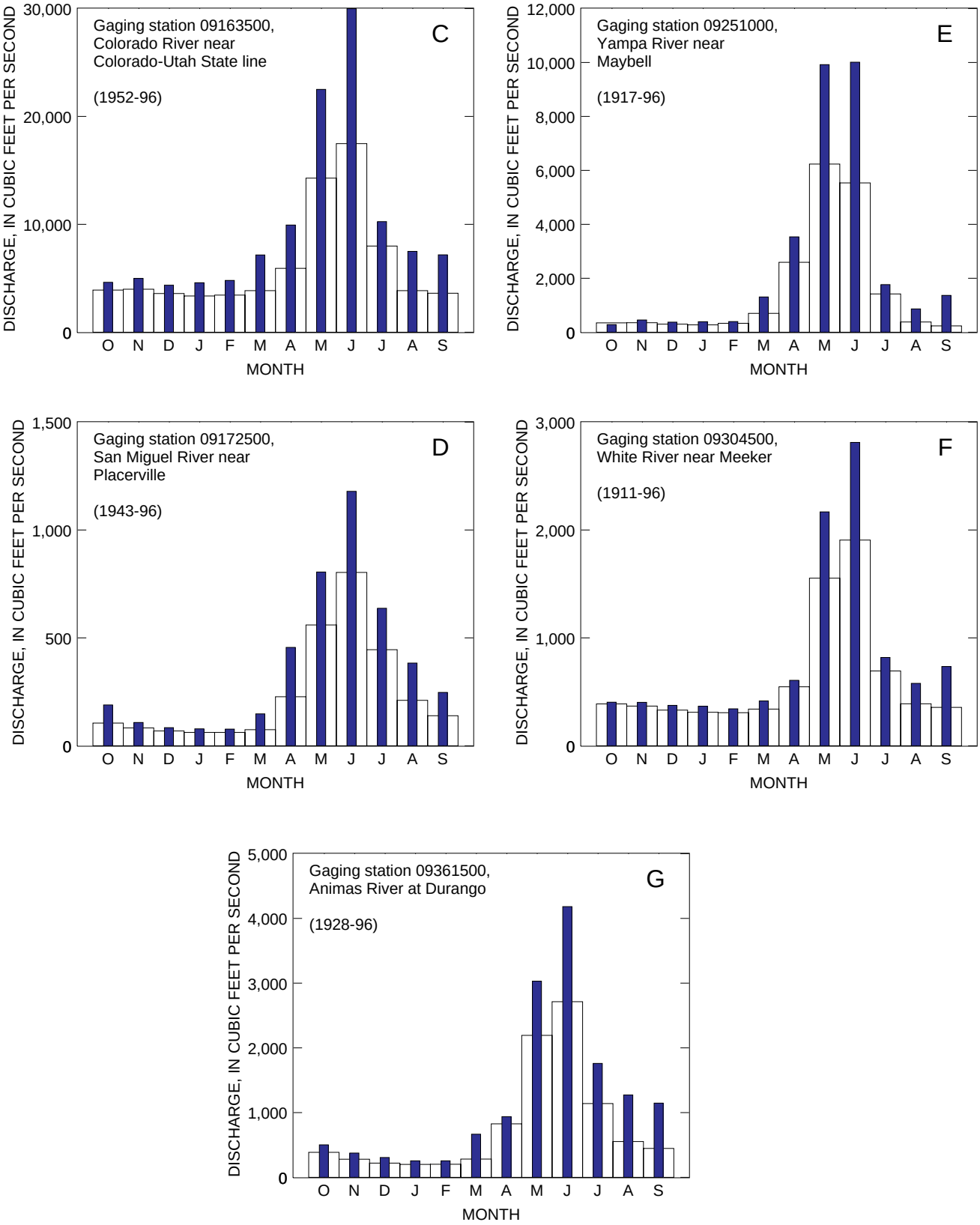


Figure 4.--Comparison of monthly discharges for water year 1997 to mean monthly discharges for the reference periods indicated on the individual graphs--Continued.

Chemical Quality of Streamflow

To determine if substantial changes occurred during water year 1997 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 1997 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 1997 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 1997 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 1997 and the mean specific conductance for the reference period are not statistically different at the specified level. However, mean specific conductance during water year 1997 was statistically different from mean specific conductance for the water years 1987-96 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. Mean annual discharge at gaging station 09095500, Colorado River near Cameo, was 67 percent greater than the mean discharge for the reference period (1987-96). Similarly, mean annual discharge at gaging station 09152500, Gunnison River near Grand Junction, was 57 percent greater than the mean discharge for the reference period. This increased flow produced the lowered specific conductance measured during all months and decreased the mean specific conductance.

Table 3. Results of Wilcoxon-Mann-Whitney rank sum tests comparing mean specific conductance of discharge for water year 1997 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 1997			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}	Hypothesis
09095500	Colorado River near Cameo	16	682	309	412	890	277	1987-96	-2.59	1.96	R
09152500	Gunnison River near Grand Junction	15	580	246	185	887	297	1987-96	-3.64	1.97	R
09306290	White River below Boise Creek, near Rangely	14	596	157	137	647	180	1987-96	-1.41	1.98	A
09361500	Animas River at Durango	7	287	124	98	446	211	1987-96	-1.88	1.99	A

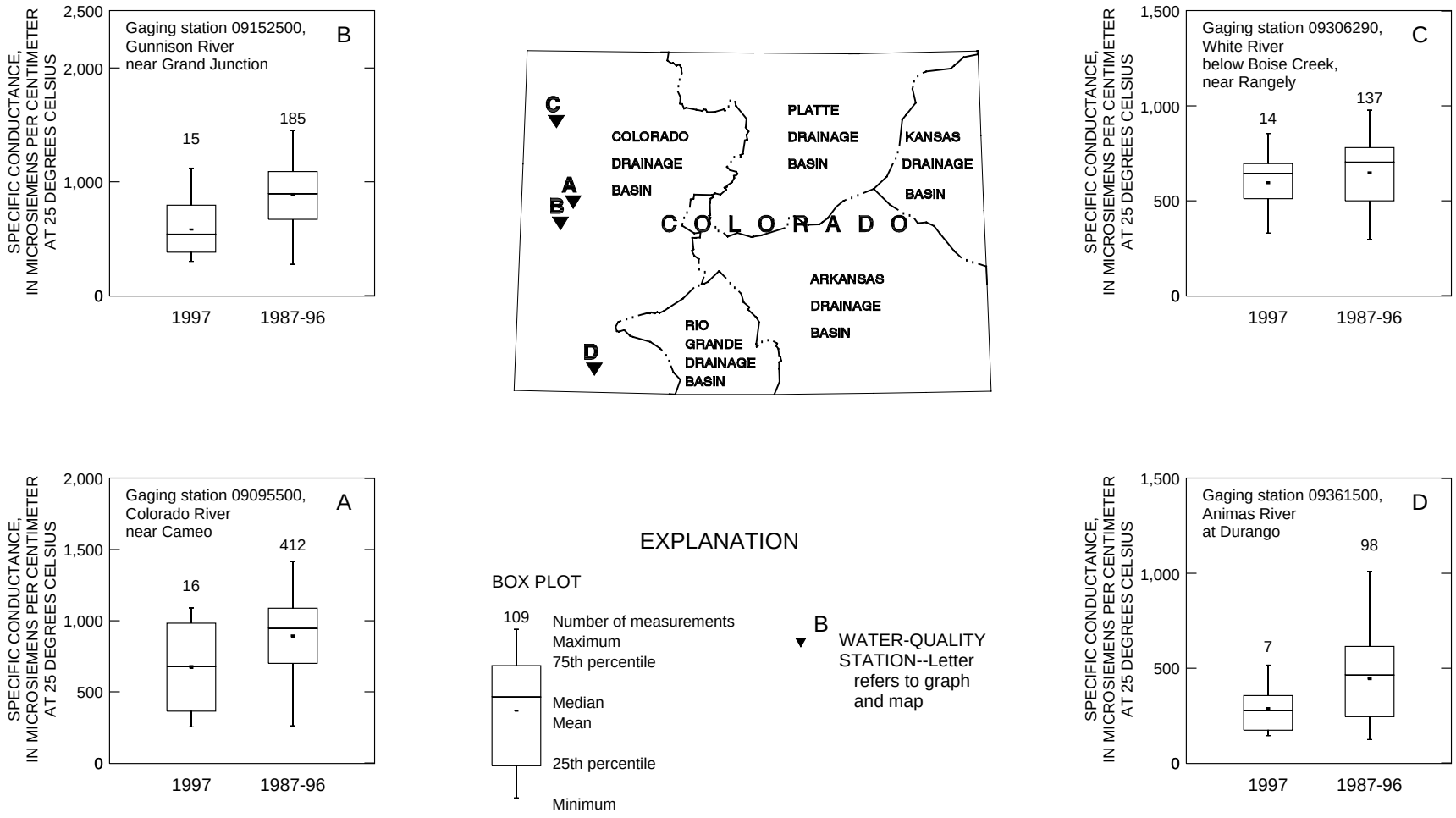


Figure 5.--Comparison of range and distribution of specific conductance measured during water year 1997 to long-term values.

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 1997 water year that began on October 1, 1996, and ended September 30, 1997. 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.

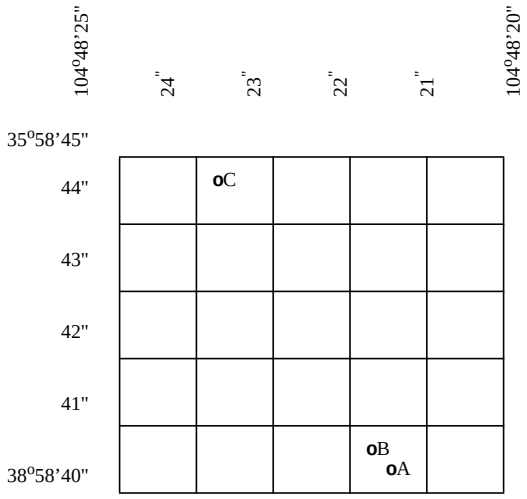
Downstream Order System

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).



Coordinates for site A 385840N104482101
B 385840N104482102
C 385844N104482300

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°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 about 65 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 below Old Baldy Mountain near Leal, CO	09035880	21.8	1985-88
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
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)

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)
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
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
Fryingpan River near Norrie, CO	09077400	32.2	1963-67

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)
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
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
East Fork Parachute Creek near Rulison, CO	09092970	20.4	1976-83
Ben Good Creek near Rulison, CO	09092980	4.04	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)
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
Roan Creek above Clear Creek near De Beque, CO	09094200	151	1962-68
Clear Creek near De Beque, CO	09094400	110	1966-68
Roan Creek near De Beque, CO	09095000	321	1921-26, 1962-72, 1975-81
Dry Fork near De Beque, CO	09095400	109	1974-82
Government Highline Canal at 16 Road near Loma, CO	09095526	--	1975-85
Lateral No 48 near Mack, CO	09095528	--	1973-81
Government Highline Canal above Camp 7 Spillway near Mack, CO	090955285	--	1983-85
Camp No 7 Spillway near Mack, CO	09095529	--	1975-82
Government Highline Canal near Mack, CO	09095530	--	1973-82
Plateau Creek near Heiberger, CO	09095800	18.6	1958-64
Plateau Creek at Upper Station near Collbran, CO	09096000	24.1	1937-43, 1951-58
Plateau Creek near Collbran, CO	09096500	80.4	1921-80
Buzzard Creek below Owens Creek near Heiberger, CO	09096800	49.7	1955-70
Buzzard Creek near Collbran, CO	09097500	143	1921-80
Brush Creek near Collbran, CO	09097600	9.57	1955-67
Atkinson Creek near Collbran, CO	09098500	0.85	1952-55
East Fork Big Creek near Collbran, CO	09099000	4.92	1940-41, 1950-55
Big Creek at Upper Station near Collbran, CO	09099500	20.2	1945-56
Big Creek near Collbran, CO	09100000	27.1	1937-44
Cottonwood Creek at Upper Station near Molina, CO	09100500	14.0	1945-57
Cottonwood Creek near Molina, CO	09101000	17.8	1937-43
Bull Creek at Upper Station near Molina, CO	09101500	9.85	1945-53
Coon Creek near Mesa, CO	09104000	9.35	1937-43
Mesa Creek near Mesa, CO	09104500	6.79	1937-60
Colorado River near Palisade, CO	09106000	8,738	1901-33
Kiefer Extension to Grand Valley Canal near Fruita, CO	09106104	--	1975-85
Kiefer Extension to Grand Valley Canal near Loma, CO	09106108	--	1975-85
Lewis Wash near Grand Junction, CO	09106200	4.72	1973-79
Texas Creek at Taylor Park, CO	09107500	40.4	1929-34, 1988-92
Willow Creek at Taylor Park, CO	09108000	--	1913-14, 1929-34
East River near Crested Butte, CO	09110500	90.3	1939-51
Coal Creek near Crested Butte, CO	09111000	8.65	1941-46
Slate River near Crested Butte, CO	09111500	70.1	1940-51
Cement Creek near Crested Butte, CO	09112000	26.1	1910-13, 1940-51
Castle Creek near Baldwin, CO	09113000	20.3	1944-50
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
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

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)
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
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

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)
Spring Creek near Beaver Hill, CO	09149400	41.6	1977-81
Spring Creek near Montrose, CO	09149420	76.6	1977-81
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
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

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)
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
Elk River above Clark, CO	09240900	122	1987-93
Elk River at Clark, CO	09241000	206	1910-22, 1930-91
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
Willow Creek near Dixon, WY	09258000	24.0	1953-93
Little Snake River above Lily, CO	09259950	--	1950-69
Sand Wash near Sunbeam, CO	09259990	239	1987-91
North Fork White River below Trappers Lake, CO	09302400	19.5	1956-65
North Fork White River above Ripple Creek near Trappers Lake, CO	09302420	62.5	1965-73
Lost Creek near Buford, CO	09302450	21.5	1964-89
Marvine Creek near Buford, CO	09302500	59.7	1903-06, 1973-84
North Fork White River near Buford, CO	09302800	220	1903-06, 1956-72
South Fork White River at Budge's Resort, CO	09303300	52.3	1975-95

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)
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
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
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
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
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
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

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)
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
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
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 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
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
Colorado River near Dotsero, CO	09070500	4,394	Temp., S.C.	1980-84
			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
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
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 Loma, CO	09153300	29.3	Temp., S.C.	1973-83
West Salt Creek near Carbonera, CO	09153330	95.6	Temp., S.C.	1981-82
West Salt Creek near Mack, CO	09153400	168	Temp., S.C.	1973-84
Badger Wash Observation Res 4-A near Mack, CO	09160000	.02	Temp., S.C.	1981
Badger Wash Observation Res 12 near Mack, CO	09160500	.09	Temp., S.C.	1981-82
Badger Wash Observation Res 2-A near Mack, CO	09161000	.15	Temp., S.C.	1981
Badger Wash near Mack, CO	09163050	6.51	Temp., S.C.	1973-80
East Salt Creek near Mack, CO	09163310	197	Temp., S.C.	1973-82
Mack Wash near Mack, CO	09163340	15.9	Temp.	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

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)
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
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

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)
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.”

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.

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.

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.

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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.

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.

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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-A10. *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.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

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.

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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.

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.

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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.

4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.

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

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PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

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.

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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.

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

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. 1995. 125 pages.

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.

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.

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.

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.

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	e22	e15	e12	e9.2	e7.6	e11	40	547	268	68	71
2	42	e22	e15	e12	e9.0	e7.8	e11	36	642	214	57	64
3	54	e22	e14	e13	e9.0	e7.8	e11	36	705	198	52	59
4	70	e22	e14	e12	e8.8	e7.6	e11	38	678	181	50	64
5	55	e22	e14	e12	e8.8	e7.6	e11	58	706	168	63	63
6	50	e22	e14	e12	e8.6	e7.6	e11	82	691	150	73	58
7	46	e22	e14	e12	e8.6	e7.6	e11	113	633	142	59	59
8	42	e22	e14	e12	e8.4	e7.8	e12	138	601	139	50	55
9	38	e22	e14	e12	e8.4	e8.0	e12	157	626	134	48	50
10	36	e22	e14	e12	e8.4	e8.1	e12	183	624	125	176	47
11	34	e22	e14	e12	e8.4	e8.2	e13	194	663	123	200	46
12	32	e22	e14	e12	e8.2	e8.4	e13	194	623	114	177	47
13	31	e22	e14	e12	e8.2	e8.6	e13	206	605	107	153	42
14	29	e22	e14	e12	e8.2	e8.6	e14	214	609	100	166	40
15	28	e22	e14	e12	e8.0	e8.8	e14	218	617	95	135	40
16	28	e23	e13	e12	e8.0	e8.9	e15	256	553	92	127	42
17	e26	e22	e13	e11	e7.8	e9.0	e15	299	550	87	130	38
18	e26	e22	e12	e11	e8.0	e9.2	e16	354	546	89	131	51
19	e25	e22	e12	e11	e7.8	e9.2	e17	404	640	89	129	97
20	e25	e23	e12	e11	e7.6	e9.4	e17	395	724	83	110	216
21	e24	e23	e12	e11	e7.6	e9.4	e18	418	725	75	99	198
22	e24	e22	e12	e11	e7.4	e9.4	e19	537	715	71	93	161
23	e24	e21	e12	e11	e7.4	e9.6	e20	522	693	72	87	132
24	e24	e20	e12	e10	e7.4	e9.6	e22	486	635	74	83	111
25	e24	e19	e12	e10	e7.4	e9.8	e23	414	559	66	80	95
26	e24	e19	e13	e10	e7.4	e9.8	e25	338	515	61	78	90
27	e24	e18	e13	e10	e7.4	e10	e27	279	436	59	74	92
28	e24	e17	e13	e10	e7.6	e10	e29	247	359	58	71	78
29	e23	e16	e13	e9.5	---	e10	e32	340	339	62	71	71
30	e23	e16	e13	e9.4	---	e10	e36	357	310	65	64	66
31	e22	---	e13	e9.2	---	e11	---	408	---	83	60	---
TOTAL	1021	633	412	348.1	227.0	274.4	511	7961	17869	3444	3014	2343
MEAN	32.9	21.1	13.3	11.2	8.11	8.85	17.0	257	596	111	97.2	78.1
MAX	70	23	15	13	9.2	11	36	537	725	268	200	216
MIN	22	16	12	9.2	7.4	7.6	11	36	310	58	48	38
AC-FT	2030	1260	817	690	450	544	1010	15790	35440	6830	5980	4650

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1997, BY WATER YEAR (WY)

MEAN	23.8	15.1	9.78	7.85	7.07	7.51	27.3	169	323	115	34.4	27.2
MAX	83.7	37.2	17.4	12.8	10.6	11.9	74.5	329	596	425	104	78.1
(WY)	1962	1962	1962	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1953 - 1997	
ANNUAL TOTAL	31016.3		38057.5			
ANNUAL MEAN	84.7		104		64.3	
HIGHEST ANNUAL MEAN					109	1983
LOWEST ANNUAL MEAN					26.3	1954
HIGHEST DAILY MEAN	652	May 19	725	Jun 21	916	Jun 30 1957
LOWEST DAILY MEAN	e7.6	Jan 6	e,a7.4	Feb 22	3.0	Jan 13 1963
ANNUAL SEVEN-DAY MINIMUM	8.5	Feb 15	7.4	Feb 21	3.5	Feb 4 1977
INSTANTANEOUS PEAK FLOW			748	Jun 21	976	Jun 30 1957
INSTANTANEOUS PEAK STAGE			7.09	Jun 21	b7.19	Jun 30 1957
ANNUAL RUNOFF (AC-FT)	61520		75490		46580	
10 PERCENT EXCEEDS	340		358		194	
50 PERCENT EXCEEDS	22		24		18	
90 PERCENT EXCEEDS	8.8		8.6		6.4	

e-Estimated.
a-Also occurred on Feb 23-27.
b-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 current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1996 to September 1997.

INSTRUMENTATION.--Water temperature sensor and logger October 1996.

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

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 15.9°C, Aug. 2; minimum, 0°C on many days October to May.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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												
07...	1600	43	66	7.2	9.0	8.7	26	7.8	1.7	1.6	0.1	0.7
NOV												
12...	1400	22	74	7.5	0.5	10	30	8.6	2.1	1.8	0.1	0.8
DEC												
10...	1545	14	75	7.3	0.0	10	32	9.1	2.3	1.8	0.1	0.9
JAN												
13...	1605	12	84	7.2	0.0	9.0	31	8.9	2.2	1.8	0.1	0.9
FEB												
18...	1605	8.0	78	7.2	0.0	10	33	9.3	2.3	1.7	0.1	0.8
MAR												
17...	1235	8.8	79	7.0	0.0	8.4	33	9.4	2.4	2.0	0.2	0.9
APR												
14...	1255	14	78	7.3	0.0	9.8	32	9.2	2.3	2.0	0.2	0.9
30...	1140	48	72	7.2	1.0	10	29	8.3	2.1	1.9	0.2	1.0
MAY												
13...	1345	185	56	7.5	6.5	9.5	23	6.4	1.6	1.5	0.1	0.9
29...	1045	340	50	7.1	3.5	9.7	21	5.8	1.4	1.4	0.1	0.7
JUN												
02...	1115	637	42	7.4	5.5	9.3	17	4.8	1.2	1.1	0.1	0.6
19...	2110	745	37	7.2	8.0	8.6	15	4.2	1.0	0.9	0.1	0.6
JUL												
18...	0825	85	56	7.5	8.0	8.6	22	6.3	1.7	1.4	0.1	0.7
AUG												
14...	0955	175	55	7.2	7.0	8.8	22	6.5	1.4	1.2	0.1	0.5
SEP												
15...	1555	40	68	7.9	11.0	9.4	28	8.1	1.9	1.4	0.1	0.7

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

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	BICAR-[a] BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-[b] 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)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
OCT											
07...	26	21	7.1	0.2	0.5	6.1	40	39	0.05	4.69	<0.01
NOV											
12...	30	24	7.4	0.1	0.4	7.5	46	44	0.06	2.79	<0.01
DEC											
10...	33	27	7.2	0.2	0.3	8.2	50	47	0.07	1.94	0.01
JAN											
13...	34	28	6.8	0.2	0.3	8.4	53	47	0.07	1.76	0.01
FEB											
18...	32	26	7.0	0.2	0.3	8.5	49	46	0.07	1.05	<0.01
MAR											
17...	39[c]	32[d]	7.0	0.2	0.3	8.8	51	46	0.07	1.22	<0.01
APR											
14...	35	29	7.0	0.2	0.3	8.8	54	48	0.07	2.00	<0.01
30...	34	28	6.2	0.2	0.3	8.9	49	46	0.07	6.32	<0.01
MAY											
13...	24	20	4.4	0.2	0.3	7.5	43	35	0.06	21.5	<0.01
29...	22	18	3.5	0.2	0.2	7.2	29	31	0.04	26.6	<0.01
JUN											
02...	18	15	3.3	0.2	0.3	6.2	35	27	0.05	60.2	<0.01
19...	15	12	2.9	0.1	0.2	4.8	34	23	0.05	68.4	<0.01
JUL											
18...	27	23	4.1	0.1	0.2	6.0	41	34	0.06	9.41	<0.01
AUG											
14...	23	19	4.4	<0.1	0.3	5.2	40	--	--	--	<0.01
SEP											
15...	28	23	7.0	0.2	0.3	6.1	40	40	0.05	4.29	<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)	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)
OCT											
07...	0.08	0.03	<0.2	<0.2	<0.01	<0.01	<0.01	1.5	<0.1	47	11
NOV											
12...	0.09	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	1.3	0.1	87	19
DEC											
10...	0.11	0.02	<0.2	<0.2	<0.01	<0.01	0.02	1.1	0.1	79	23
JAN											
13...	0.13	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	1.0	0.1	63	22
FEB											
18...	0.10	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	1.2	0.1	97	26
MAR											
17...	0.09	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	1.2	0.1	73	26
APR											
14...	0.07	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	1.5	0.2	120	20
30...	0.06	<0.01	<0.2	<0.2	<0.01	<0.01	<0.01	3.6	0.5	230	36
MAY											
13...	<0.05	<0.01	0.2	<0.2	<0.01	<0.01	<0.01	4.8	0.3	110	17
29...	<0.05	<0.01	<0.2	<0.2	0.04	<0.01	<0.01	5.1	0.4	73	7
JUN											
02...	0.08	<0.01	<0.2	<0.2	0.01	<0.01	<0.01	5.5	0.5	66	7
19...	0.10	<0.01	<0.2	<0.2	<0.01	<0.01	<0.01	4.1	0.9	61	6
JUL											
18...	<0.05	<0.01	0.3	<0.2	<0.01	<0.01	<0.01	1.9	<0.2	86	8
AUG											
14...	0.09	<0.01	0.2	<0.2	<0.01	<0.01	<0.01	2.0	0.2	49	8
SEP											
15...	<0.05	<0.01	<0.2	<0.2	<0.01	<0.01	<0.01	2.4	<0.2	97	11

a-Field dissolved bicarbonate, determined by incremental titration method.
b-Field total dissolved alkalinity, determined by incremental titration method.
c-Bicarbonate concentration determined by laboratory fixed-end-point titration.
d-Laboratory total dissolved alkalinity by fixed-end-point titration.

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

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	ALUMINUM, DISSOLVED (UG/L AS AL) (1106)	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)
MAY								
13...	25	<1	<1	7	<1	<1	<1	<1
29...	30	<1	<1	6	<1	<1	<1	<1
JUN								
02...	44	<1	<1	5	<1	<1	<1	<1

DATE	COPPER, DISSOLVED (UG/L AS CU) (01040)	LEAD, DISSOLVED (UG/L AS PB) (01049)	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)
MAY								
13...	<1	<1	<1	<1	<1	<1	2	<1
29...	1	<1	<1	<1	<1	<1	1	<1
JUN								
02...	<1	<1	<1	<1	<1	<1	1	<1

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
JAN				
09...	1404	12	77	0.0
MAR				
12...	1050	8.6	79	0.0
APR				
14...	1300	14	78	0.0
30...	1145	48	72	1.0
MAY				
13...	1355	187	56	6.5
29...	1025	334	50	3.5
JUN				
02...	1040	637	42	5.5
05...	1503	633	40	9.5

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(National Water-Quality Assessment Program station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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[g] TYPE (CODE) (84164)
OCT					
07...	1600	43	1[f]	0.12	3045
NOV					
12...	1400	22	2[f]	0.12	3045
DEC					
10...	1545	14	1[f]	0.04	3045
JAN					
13...	1605	12	1[f]	0.03	3045
FEB					
18...	1605	8.0	1[f]	0.02	3045
MAR					
17...	1235	8.9	1[f]	0.02	8010
APR					
14...	1255	14	1[f]	0.04	8010
14...	1300	14	2[f]	0.07	8010
30...	1140	48	9[f]	1.2	3045
30...	1145	48	8[f]	1.0	3045
MAY					
13...	1345	185	8[f]	4.0	3045
13...	1355	187	9[f]	4.5	3045
29...	1025	334	25	23	3009
29...	1045	340	20[f]	18	3039
JUN					
02...	1040	637	32	55	3009
02...	1115	637	28[f]	48	3039
19...	2110	745	31[f]	62	3039
JUL					
18...	0825	85	2[f]	0.46	3044
AUG					
14...	0955	175	8[f]	3.8	3045
SEP					
15...	1555	40	1[f]	0.11	3045

f-Suspended-sediment concentration determined from a subsample split of a composite sample.
g-Code 3009 is a D-74 suspended-sediment sampler; Code 3039 is a D-77TM water-quality sampler; Code 3044 and 3045 are water-quality and suspended-sediment samplers; Code 8010, other.

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	1.1	.0	.3	.1	.0	.0	.1	.0	.0
2	---	---	---	1.2	.0	.3	.1	.0	.0	.1	.0	.0
3	---	---	---	.6	.0	.2	.1	.0	.1	.0	.0	.0
4	---	---	---	2.2	.1	.8	.1	.0	.1	.1	.0	.0
5	---	---	---	.6	.0	.2	.1	.0	.1	.0	.0	.0
6	---	---	---	.4	.0	.1	.1	.0	.1	.1	.0	.0
7	---	---	---	.1	.0	.1	.1	.0	.0	.0	.0	.0
8	8.9	3.6	6.3	.1	.0	.1	.1	.0	.1	.0	.0	.0
9	9.0	3.6	6.4	.3	.0	.1	.1	.0	.1	.1	.0	.0
10	9.2	3.9	6.6	.3	.0	.1	.1	.0	.1	.0	.0	.0
11	9.2	3.6	6.5	.4	.0	.1	.1	.0	.0	.0	.0	.0
12	9.0	3.8	6.5	.6	.0	.1	.1	.0	.0	.1	.0	.0
13	8.9	3.9	6.4	.6	.0	.1	.1	.0	.0	.0	.0	.0
14	8.1	3.8	5.7	.6	.0	.2	.1	.0	.0	.0	.0	.0
15	6.9	2.3	4.8	.4	.0	.1	.1	.0	.0	.0	.0	.0
16	5.0	1.2	3.0	.1	.0	.0	.1	.0	.0	.0	.0	.0
17	2.0	.0	.7	.1	.0	.0	.1	.0	.0	.0	.0	.0
18	2.7	.0	1.0	.1	.0	.0	.1	.0	.0	.0	.0	.0
19	3.8	.1	1.7	.1	.0	.0	.1	.0	.0	.0	.0	.0
20	2.5	.0	1.3	.3	.0	.1	.1	.0	.0	.0	.0	.0
21	1.1	.0	.3	.4	.0	.1	.1	.0	.0	.0	.0	.0
22	.8	.0	.2	.8	.0	.2	.1	.0	.0	.0	.0	.0
23	1.1	.0	.3	.6	.0	.2	.1	.0	.0	.0	.0	.0
24	1.1	.0	.3	.6	.0	.1	.1	.0	.0	.0	.0	.0
25	1.4	.1	.4	.1	.0	.1	.1	.0	.0	.0	.0	.0
26	.3	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0
27	.8	.0	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0
28	1.1	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0
29	.1	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0
30	.6	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0
31	.8	.0	.2	---	---	---	.1	.0	.0	.0	.0	.0
MONTH	---	---	---	2.2	.0	.1	.1	.0	.0	.1	.0	.0

		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	.0	.0	.0	.1	.0	.0	3.5	.0	1.3
2	.0	.0	.0	.0	.0	.0	.3	.0	.0	1.4	.0	.5
3	.0	.0	.0	.0	.0	.0	.3	.0	.0	6.3	.0	2.6
4	.0	.0	.0	.0	.0	.0	.3	.0	.0	7.5	.6	4.2
5	.0	.0	.0	.0	.0	.0	.3	.0	.0	8.1	1.4	4.5
6	.0	.0	.0	.0	.0	.0	.1	.0	.0	5.8	1.1	3.4
7	.0	.0	.0	.0	.0	.0	.3	.0	.1	7.0	.6	3.1
8	.0	.0	.0	.0	.0	.0	.4	.0	.1	7.3	.0	3.0
9	.0	.0	.0	.0	.0	.0	.6	.0	.2	7.5	.0	3.2
10	.0	.0	.0	.0	.0	.0	.1	.0	.0	7.5	.0	3.1
11	.0	.0	.0	.0	.0	.0	.1	.0	.0	5.2	.0	2.5
12	.0	.0	.0	.0	.0	.0	.1	.0	.0	8.0	.4	3.8
13	.0	.0	.0	.0	.0	.0	.3	.0	.1	8.1	.1	3.6
14	.0	.0	.0	.0	.0	.0	.3	.0	.1	5.8	.4	2.8
15	.0	.0	.0	.0	.0	.0	.6	.0	.2	8.1	.8	4.1
16	.0	.0	.0	.0	.0	.0	1.6	.0	.5	8.9	.9	4.5
17	.0	.0	.0	.0	.0	.0	2.0	.0	.6	7.2	.9	3.9
18	.1	.0	.0	.0	.0	.0	1.6	.0	.4	9.4	1.1	4.3
19	.0	.0	.0	.0	.0	.0	1.1	.0	.4	9.5	1.2	4.7
20	.0	.0	.0	.0	.0	.0	1.1	.1	.3	8.0	.9	4.1
21	.0	.0	.0	.0	.0	.0	.3	.0	.1	7.8	2.2	4.5
22	.0	.0	.0	.0	.0	.0	1.6	.0	.4	5.3	2.5	3.7
23	.0	.0	.0	.1	.0	.0	1.9	.0	.6	8.1	2.3	4.9
24	.0	.0	.0	.0	.0	.0	.6	.0	.2	5.8	2.2	3.9
25	.0	.0	.0	.1	.0	.0	2.2	.0	.7	6.7	2.2	4.2
26	.0	.0	.0	.1	.0	.0	2.0	.0	.6	3.1	1.6	2.3
27	.0	.0	.0	.1	.0	.0	3.0	.0	1.2	6.6	1.4	3.7
28	.0	.0	.0	.1	.0	.0	4.4	1.1	2.5	9.7	2.3	5.3
29	---	---	---	.1	.0	.0	1.8	.3	1.0	5.3	3.4	3.8
30	---	---	---	.1	.0	.0	3.8	.0	1.4	8.1	3.0	5.1
31	---	---	---	.1	.0	.0	---	---	---	12.1	2.5	6.7
MONTH	.1	.0	.0	.1	.0	.0	4.4	.0	.4	12.1	.0	3.7

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.5	3.1	6.1	11.1	5.2	8.0	15.3	9.1	12.2	13.2	10.0	11.6
2	9.7	2.8	5.8	11.8	4.1	7.9	15.9	10.3	13.0	15.7	9.1	12.2
3	11.1	2.5	6.2	12.0	5.3	8.6	14.5	10.3	12.6	14.3	10.1	12.5
4	10.8	2.7	6.4	11.8	5.3	8.6	15.6	10.4	12.9	13.5	9.5	11.9
5	9.5	3.0	6.0	11.5	5.3	8.4	12.6	10.5	11.6	15.3	9.4	12.0
6	6.0	3.5	4.6	10.8	5.5	8.4	10.5	9.2	9.8	12.1	8.9	10.1
7	6.9	3.0	4.9	12.8	5.6	9.3	14.0	7.3	10.8	11.4	6.6	9.1
8	6.0	2.7	4.3	11.5	7.0	9.4	15.1	8.4	11.8	13.5	7.0	10.1
9	6.9	2.3	4.5	11.5	6.1	9.0	14.2	10.0	12.2	13.2	8.1	10.7
10	7.3	3.0	5.0	13.1	6.9	9.9	11.8	9.1	9.9	14.0	7.8	11.0
11	9.4	3.0	5.6	10.1	7.3	8.7	10.1	7.7	8.9	12.9	9.4	11.0
12	7.8	2.7	5.3	12.3	6.0	9.0	10.0	6.0	8.1	14.0	8.9	11.4
13	9.7	2.7	5.9	14.3	7.0	10.4	10.0	5.8	8.0	14.0	7.8	11.0
14	9.2	3.3	6.1	14.8	6.9	10.7	11.7	6.4	8.9	13.4	8.3	10.9
15	7.5	2.7	5.1	15.1	7.5	11.2	14.3	6.6	10.2	10.6	7.5	9.2
16	8.4	2.7	5.5	11.5	8.1	10.1	12.3	7.2	9.8	11.2	7.7	9.5
17	7.3	4.1	5.5	12.5	7.5	10.2	12.9	7.3	10.0	12.0	6.3	9.1
18	7.7	3.1	5.5	12.1	7.7	9.9	10.4	7.8	9.3	11.4	8.6	9.7
19	10.0	4.1	6.5	11.8	7.8	10.2	11.2	6.1	8.7	10.1	7.5	8.6
20	9.4	3.6	6.4	14.9	7.8	11.2	12.8	6.4	9.7	10.0	6.0	7.8
21	10.4	3.9	6.9	14.6	8.4	11.5	14.0	7.7	10.8	8.6	6.0	7.4
22	11.8	3.8	7.5	13.4	9.1	11.4	13.2	7.8	10.7	8.0	5.8	6.8
23	9.7	3.8	6.7	15.1	9.5	12.0	14.2	7.7	11.0	8.0	5.2	6.5
24	9.7	3.9	6.5	15.6	10.0	12.5	12.5	8.1	10.7	10.0	3.5	6.6
25	9.8	3.0	6.3	15.7	9.7	12.7	14.5	8.4	11.7	10.6	4.4	7.5
26	11.7	3.3	7.3	14.9	10.3	12.9	13.5	10.3	12.0	8.4	6.1	7.3
27	10.1	4.4	7.0	12.6	10.4	11.5	15.1	9.1	12.0	10.6	6.4	8.1
28	11.4	4.4	7.6	13.5	9.2	11.2	15.1	9.2	11.9	9.4	3.8	6.6
29	11.2	4.4	7.6	12.9	10.1	11.5	12.9	8.9	11.2	9.4	3.0	6.2
30	12.1	4.7	8.2	15.7	10.1	12.8	13.5	7.8	10.8	10.1	3.9	7.0
31	---	---	---	12.9	10.8	11.9	13.9	8.4	11.4	---	---	---
MONTH	12.1	2.3	6.1	15.7	4.1	10.4	15.9	5.8	10.7	15.7	3.0	9.3

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.--51 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.46	496	96	98	437	406	6.4	544	545	494	202	209
2	.40	499	111	113	430	410	4.3	524	542	526	152	179
3	.40	497	106	314	430	410	5.5	508	540	472	70	250
4	47	496	99	455	427	362	60	515	544	545	3.7	250
5	.13	496	103	438	415	333	6.1	506	537	547	12	250
6	.00	492	104	365	415	399	4.0	498	470	541	12	265
7	72	484	99	463	420	421	143	419	511	546	153	266
8	.43	485	95	450	421	506	386	414	538	547	316	265
9	23	477	349	451	423	433	80	495	524	470	285	246
10	23	463	482	449	261	407	9.2	546	514	357	68	260
11	24	472	482	446	228	400	9.3	546	496	546	9.7	254
12	33	486	480	455	419	398	9.5	547	483	546	71	255
13	95	497	477	437	411	385	9.6	546	488	545	327	289
14	109	498	478	430	414	344	9.5	547	488	548	198	315
15	105	491	478	438	397	1.4	9.1	548	484	549	273	340
16	102	493	478	446	386	15	174	546	486	529	301	171
17	107	492	477	447	409	5.9	448	542	486	502	235	171
18	108	491	476	455	435	6.1	448	541	420	497	207	189
19	108	491	460	454	421	5.8	456	544	357	496	117	184
20	108	490	413	448	412	.57	456	541	260	497	60	2.9
21	108	481	448	430	412	.50	448	541	493	496	59	1.7
22	111	455	429	427	406	9.3	500	542	539	506	64	1.6
23	115	99	459	422	396	6.2	548	541	542	529	79	.35
24	104	103	277	424	404	8.1	550	545	540	505	59	.00
25	106	106	51	434	353	7.8	550	545	539	492	171	.00
26	110	111	103	251	339	9.6	551	549	542	366	131	.00
27	106	111	101	63	419	7.5	550	544	491	374	137	.00
28	204	107	109	64	402	4.3	550	544	448	398	141	.00
29	245	102	109	117	---	5.4	537	544	499	268	136	.00
30	498	100	116	108	---	6.5	482	537	492	212	157	.00
31	496	---	102	200	---	4.0	---	543	---	204	227	---
TOTAL	3268.82	11561	8647	10992	11142	5717.97	7999.5	16392	14838	14650	4433.4	4614.55
MEAN	105	385	279	355	398	184	267	529	495	473	143	154
MAX	498	499	482	463	437	506	551	549	545	549	327	340
MIN	.00	99	51	63	228	.50	4.0	414	260	204	3.7	.00
AC-FT	6480	22930	17150	21800	22100	11340	15870	32510	29430	29060	8790	9150

CAL YR 1996 TOTAL 109521.72 MEAN 299 MAX 561 MIN .00 AC-FT 217200
WTR YR 1997 TOTAL 114256.25 MEAN 313 MAX 561 MIN .00 AC-FT 228100

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 1996 TO SEPTEMBER 1997

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										
12...	1229	498	41	7.7	4.5	8.4	15	4.4	0.9	1.4
MAR										
10...	1424	408	52	7.6	2.0	8.6	22	6.8	1.2	2.0
JUL										
18...	1250	502	23	7.6	15.5	7.7	9	2.8	0.5	1.0

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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									
12...	0.2	0.5	17	2.0	0.3	0.2	4.6	20	25
MAR									
10...	0.2	0.7	24	2.7	0.5	0.1	5.2	38	34
JUL									
18...	0.1	0.3	11	1.7	0.2	<0.1	3.8	22	17

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)	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...	0.03	26.9	<0.01	0.06	<0.02	<0.2	0.05	<0.01	<0.01
MAR									
10...	0.05	41.9	<0.01	0.06	<0.02	<0.2	<0.01	<0.01	<0.01
JUL									
18...	0.03	29.8	<0.01	<0.05	0.03	<0.2	<0.01	<0.01	0.01

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									
12...	5	<0.5	<4.0	1	<5	<3	<10	21	<10
MAR									
10...	7	<0.5	<4.0	<1	<5	<3	<10	10	<10
JUL									
18...	4	<0.5	<4.0	<1	<5	<3	<10	28	<10

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									
12...	<4	<1	<10	<10	<10	1	26	<6	4
MAR									
10...	<4	<1	10	<10	<10	<1	41	<6	4
JUL									
18...	<4	<1	<10	<10	<10	<1	15	<6	<3

09014500 SHADOW MOUNTAIN LAKE NEAR GRAND LAKE, CO

LOCATION.--Lat 40°12'26", long 105°50'27", in SW1/4NW1/4 sec.19, T.3 N., R.75 W., Grand County, Hydrologic Unit 14010001, 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, 17,610 acre-ft, Aug. 9, elevation, 8,366.90 ft; minimum, 16,380 acre-ft, June 6, elevation, 8,366.16 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	8,366.80	17,460	-
Oct. 31	8,366.69	17,240	-220
Nov. 30	8,366.72	17,320	+80
Dec. 31	8,366.68	17,230	-90
CAL YR 1996	-	-	-80
Jan. 31	8,366.73	17,270	+40
Feb. 28	8,366.71	17,250	-20
Mar. 31	8,366.76	17,370	+120
Apr. 30	8,366.69	17,230	-140
May 31	8,366.45	16,810	-420
June 30	8,366.59	17,060	+250
July 31	8,366.73	17,340	+280
Aug. 31	8,366.65	17,170	-170
Sept. 30	8,366.70	17,280	+110
WTR YR 1997	-	-	-180

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 1996 TO SEPTEMBER 1997

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	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)
OCT						
02...	0900	0.1	51	7.7	9.0	8.3
02...	0901	5.0	51	7.7	9.0	8.4
02...	0902	10	51	7.7	9.0	8.3
02...	0903	15	51	7.6	8.5	7.9
02...	0904	20	51	7.6	8.5	7.8
02...	0905	25	52	7.5	8.0	7.1
MAY						
22...	0930	0.1	47	7.8	12.0	8.6
22...	0931	5.0	47	7.8	11.5	8.6
22...	0932	10	45	7.8	9.0	8.7
22...	0933	15	43	7.7	8.5	8.8
22...	0934	20	42	7.7	8.0	8.8
JUN						
09...	1400	0.1	36	7.6	11.5	8.2
09...	1401	5.0	36	7.6	11.0	8.2
09...	1402	10	35	7.5	10.0	8.1
09...	1403	15	35	7.4	9.5	8.0
09...	1404	20	35	7.4	9.5	8.0
09...	1405	25	35	7.4	9.0	7.9
JUL						
16...	1325	0.1	37	7.4	17.5	7.4
16...	1326	5.0	38	7.4	15.5	7.5
16...	1327	10	42	7.2	12.5	7.5
16...	1328	15	43	7.2	11.0	7.4
16...	1329	20	43	7.2	10.5	7.2
16...	1330	25	43	7.1	10.0	6.8
AUG						
06...	0908	0.1	44	7.8	17.5	7.3
06...	0909	5.0	44	7.8	17.5	7.3
06...	0910	10	44	7.8	17.5	7.3
06...	0911	15	46	7.5	14.0	6.6
06...	0912	20	46	7.2	12.0	6.0
06...	0913	25	47	7.0	10.0	3.9
SEP						
10...	1155	0.1	48	9.3	16.5	8.8
10...	1156	5.0	48	9.2	15.0	9.0
10...	1157	10	46	8.5	13.0	8.0
10...	1158	15	46	7.8	11.5	6.5
10...	1159	20	46	7.7	11.0	6.6
10...	1200	25	46	7.5	11.0	5.8

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	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)
OCT										
02...	0915	0.1	51	7.7	9.0	106	8.3	<1	22	6.6
02...	0930	25	52	7.5	8.0	--	7.1	--	22	6.7
MAY										
22...	0945	0.1	47	7.8	12.0	61.	8.6	K3	21	6.1
22...	1000	20	42	7.7	8.0	--	8.8	--	20	5.9
JUN										
09...	1415	0.1	36	7.6	11.5	65.0	8.2	17	15	4.3
09...	1430	25	35	7.4	9.0	--	7.9	--	14	4.2
JUL										
16...	1345	0.1	37	7.4	17.5	111	7.4	<1	15	4.6
16...	1400	25	43	7.1	10.0	--	6.8	--	19	5.8
AUG										
06...	0930	0.1	44	7.8	17.5	120	7.3	K1	18	5.5
06...	0945	25	47	7.0	10.0	--	3.9	--	20	6.0
SEP										
10...	1215	0.1	48	9.3	16.5	64.0	8.8	K1	21	6.4

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	ALKA-LINITY 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)
OCT										
02...	1.3	2.0	0.2	0.8	24	3.1	0.4	0.1	4.8	34
02...	1.3	2.0	0.2	0.7	24	3.1	0.4	0.2	4.8	32
MAY										
22...	1.3	1.7	0.2	0.8	22	2.9	0.4	0.2	6.8	43
22...	1.3	1.7	0.2	0.8	21	2.9	0.3	0.2	7.2	48
JUN										
09...	1.0	1.4	0.2	0.6	16	2.7	0.3	0.1	6.2	38
09...	1.0	1.4	0.2	0.6	15	2.7	0.3	0.2	6.3	29
JUL										
16...	0.9	1.3	0.1	0.5	17	2.5	0.2	0.2	4.7	34
16...	1.0	1.7	0.2	0.6	21	2.6	0.4	0.1	4.9	37
AUG										
06...	1.1	1.5	0.2	0.6	20	2.1	0.3	0.1	4.9	33
06...	1.1	1.7	0.2	0.6	22	2.2	0.4	0.1	5.0	35
SEP										
10...	1.3	1.7	0.2	0.6	22	2.7	0.6	0.1	5.8	38

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	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)
OCT										
02...	34	<0.01	<0.05	<0.02	<0.2	<0.01	<0.01	<0.01	0.2	<0.1
02...	34	<0.01	<0.05	<0.02	0.3	0.03	<0.01	<0.01	--	--
MAY										
22...	34	<0.01	<0.05	<0.01	0.2	<0.01	<0.01	<0.01	0.4	<0.1
22...	33	<0.01	<0.05	<0.01	0.2	<0.01	<0.01	<0.01	--	--
JUN										
09...	26	<0.01	<0.05	<0.01	<0.2	<0.01	<0.01	<0.01	1.3	E0.1
09...	26	<0.01	<0.05	<0.01	0.2	<0.01	<0.01	<0.01	--	--
JUL										
16...	25	<0.01	<0.05	0.09	<0.2	<0.01	<0.01	<0.01	1.1	<0.1
16...	29	<0.01	<0.05	<0.01	<0.2	<0.01	<0.01	<0.01	--	--
AUG										
06...	28	<0.01	<0.05	0.03	<0.2	<0.01	<0.01	0.01	2.7	<0.1
06...	30	<0.01	<0.05	<0.01	0.2	<0.01	<0.01	0.01	--	--
SEP										
10...	33	<0.01	<0.05	<0.01	0.2	<0.01	<0.01	<0.01	16	<0.1

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									
02...	0915	7	<0.5	4.1	<1	<5	<3	<10	26
02...	0930	7	<0.5	<4.0	2	<5	<3	<10	35
MAY									
22...	0945	6	<0.5	<4.0	<1	<5	<3	<10	150
22...	1000	7	1.2	<4.0	2	<5	<3	<10	130
JUN									
09...	1415	6	<0.5	<4.0	<1	<5	<3	<10	100
09...	1430	6	<0.5	<4.0	<1	<5	<3	<10	130
JUL									
16...	1345	6	<0.5	4.3	<1	<5	<3	<10	36
16...	1400	7	<0.5	<4.0	<1	<5	<3	<10	20
AUG									
06...	0930	6	<0.5	<4.0	2	<5	<3	<10	30
06...	0945	7	<0.5	<4.0	<1	<5	<3	<10	18
SEP									
10...	1215	7	<0.5	4.9	2	<5	<3	<10	58

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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									
02...	10	<4	<1	<10	<10	<0.2	40	<6	3
02...	<10	<4	<1	<10	<10	<0.2	40	<6	<3
MAY									
22...	<10	<4	<1	<10	<10	<0.2	35	<6	3
22...	<10	<4	4	<10	<10	<0.2	34	<6	<3
JUN									
09...	<10	<4	2	<10	<10	<0.2	26	<6	<3
09...	<10	<4	13	<10	<10	<0.2	24	<6	<3
JUL									
16...	<10	<4	2	<10	<10	<0.2	26	<6	<3
16...	<10	<4	1	<10	<10	<0.2	34	<6	<3
AUG									
06...	<10	<4	<1	<10	<10	<0.2	32	<6	<3
06...	<10	<4	4	<10	<10	<0.2	36	<6	<3
SEP									
10...	<10	<4	22	10	<10	<0.2	37	<6	<3

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 1996 TO SEPTEMBER 1997

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										
14...	1600	320	53	7.6	6.0	7.6	21	6.4	1.2	1.8
DEC										
11...	1530	394	53	7.6	3.0	8.9	21	6.6	1.2	2.0
MAR										
05...	0800	386	53	8.1	2.0	--	22	6.7	1.2	1.9
MAY										
02...	0830	716	55	8.4	2.5	9.2	22	6.9	1.2	1.9
SEP										
05...	1100	175	50	8.9	17.5	5.7	19	5.8	1.2	1.6
11...	0700	412	50	7.2	6.5	3.7	22	6.6	1.3	1.9

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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									
14...	0.2	0.7	23	2.7	0.4	0.1	4.8	32	32
DEC									
11...	0.2	0.7	23	2.8	0.4	0.1	4.8	37	33
MAR									
05...	0.2	0.6	24	2.7	0.4	0.2	4.8	37	33
MAY									
02...	0.2	0.7	25	2.7	0.4	0.1	5.1	35	34
SEP									
05...	0.2	0.6	21	2.7	0.3	0.2	5.1	37	30
11...	0.2	0.7	23	2.3	0.5	0.2	5.6	39	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									
14...	0.04	27.6	<0.01	0.2	<0.05	<0.02	<0.01	<0.01	<0.01
DEC									
11...	0.05	39.4	0.02	<0.2	<0.05	<0.02	<0.01	<0.01	<0.01
MAR									
05...	0.05	38.6	<0.01	0.2	0.06	<0.02	<0.01	<0.01	<0.01
MAY									
02...	0.05	67.7	<0.01	<0.2	<0.05	<0.01	<0.01	<0.01	<0.01
SEP									
05...	0.05	17.5	<0.01	0.6	<0.05	<0.01	<0.01	<0.01	<0.01
11...	0.05	43.4	<0.01	<0.2	0.06	<0.01	<0.01	<0.01	<0.01

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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								
14...	7	<0.5	<1	<5	<3	<10	<3	<10
DEC								
11...	7	<0.5	<1	<5	<3	<10	8	<10
MAR								
05...	7	<0.5	<1	<5	<3	<10	3	<10
MAY								
02...	8	<0.5	<1	<5	<3	<10	8	<10
SEP								
05...	5	<0.5	<1	<5	<3	<10	67	14
11...	8	<0.5	<1	<5	<3	<10	20	<10

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								
14...	<4	<1	<10	<10	<1	40	<6	<3
DEC								
11...	<4	<1	<10	<10	<1	41	<6	<3
MAR								
05...	<4	<1	<10	<10	<1	41	<6	13
MAY								
02...	<4	<1	<10	<10	<1	42	<6	13
SEP								
05...	<4	2	<10	<10	<1	32	<6	8
11...	4	2	10	<10	<1	40	<6	<3

09018500 LAKE GRANBY NEAR GRANBY, CO

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

DRAINAGE AREA.--312 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, 464,300 acre-ft, July 11, elevation, 8,279.82 ft; minimum, 341,300 acre-ft, May 6, elevation, 8,261.85 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	8,274.37	425,400	-
Oct. 31	8,274.78	428,300	+2,900
Nov. 30	8,272.21	410,300	-18,000
Dec. 31	8,270.21	396,500	-13,800
CAL YR 1996	-	-	-26,500
Jan. 31	8,267.53	378,400	-18,100
Feb. 28	8,264.45	358,000	-20,400
Mar. 31	8,263.13	349,500	-8,500
Apr. 30	8,262.38	344,700	-4,800
May 31	8,268.39	384,200	+39,500
June 30	8,279.35	460,900	+76,700
July 31	8,279.59	462,600	+1,700
Aug. 31	8,279.08	458,900	-3,700
Sept. 30	8,278.99	458,300	-600
WTR YR 1997	-	-	+32,900

09018500 LAKE GRANBY (EAST) 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 1996 TO SEPTEMBER 1997

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	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)
OCT						
01...	1020	0.1	48	7.5	12.0	7.5
01...	1021	5.0	48	7.5	11.5	7.5
01...	1022	10	48	7.6	11.5	7.4
01...	1023	15	48	7.6	11.5	7.3
01...	1024	20	48	7.5	11.5	7.3
01...	1025	25	48	7.5	11.5	7.2
01...	1026	30	48	7.5	11.5	7.1
01...	1027	40	48	7.5	11.5	7.0
01...	1028	50	48	7.3	10.0	4.6
01...	1029	60	48	7.1	8.5	3.5
01...	1030	70	49	7.1	7.5	3.1
01...	1031	80	49	7.1	7.5	3.2
01...	1032	90	49	7.0	7.0	3.1
01...	1033	100	49	7.0	7.0	3.1
01...	1034	110	49	7.0	7.0	3.1
01...	1035	120	49	7.0	7.0	3.1
01...	1036	130	49	7.0	7.0	3.0
01...	1037	140	50	6.9	7.0	3.0
01...	1038	150	50	6.9	7.0	2.8
MAY						
21...	1010	0.1	48	7.2	6.5	9.6
21...	1011	5.0	48	7.8	6.0	9.7
21...	1012	10	48	7.8	6.0	9.6
21...	1013	15	48	7.8	6.0	9.6
21...	1014	20	48	7.8	6.0	9.6
21...	1015	25	48	7.8	5.5	9.5
21...	1016	30	48	7.7	5.5	9.5
21...	1018	40	48	7.7	5.5	9.4
21...	1019	50	48	7.7	5.0	9.3
21...	1020	60	47	7.7	4.5	9.1
21...	1021	70	47	7.6	4.0	8.9
21...	1022	80	47	7.6	4.0	8.8
21...	1023	90	47	7.6	4.0	8.7
21...	1024	100	47	7.5	4.0	8.3
21...	1025	110	48	7.5	4.0	8.2
JUN						
09...	1040	0.1	47	7.9	12.5	8.3
09...	1041	5.0	47	7.9	12.0	8.3
09...	1042	10	47	7.9	11.5	8.3
09...	1043	15	47	7.9	11.5	8.3
09...	1044	20	47	7.9	11.5	8.3
09...	1045	25	46	7.9	11.0	8.4
09...	1046	30	49	7.8	7.5	8.6
09...	1047	40	49	7.7	6.0	8.4
09...	1048	50	49	7.7	5.0	8.0
09...	1049	60	49	7.6	5.0	7.8
09...	1050	70	49	7.5	5.0	7.7
09...	1051	80	49	7.5	5.0	7.6
09...	1052	90	49	7.5	4.5	7.6
09...	1053	100	49	7.4	4.5	7.5
JUL						
16...	0955	0.1	43	8.2	18.0	7.7
16...	0956	5.0	43	8.3	17.5	7.8
16...	0957	10	43	8.3	17.5	7.7
16...	0958	15	43	8.3	16.5	7.8
16...	0959	20	44	8.2	15.5	7.8
16...	1000	25	44	8.1	15.5	7.7
16...	1001	30	46	8.0	15.0	7.6
16...	1002	40	43	7.8	9.5	7.4
16...	1003	50	46	7.6	7.0	7.2
16...	1004	60	47	7.5	6.0	6.9
16...	1005	70	47	7.4	6.0	6.7
16...	1006	80	47	7.4	6.0	6.6
16...	1007	90	47	7.3	6.0	6.6
16...	1008	100	47	7.3	5.5	6.6
16...	1009	110	47	7.2	5.5	6.6
16...	1010	120	47	7.2	5.5	6.6
16...	1011	130	47	7.2	5.5	6.6

09018500 LAKE GRANBY (EAST) NEAR GRANBY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	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)
AUG						
06...	1105	0.1	44	8.5	18.5	7.3
06...	1106	5.0	44	8.5	18.5	7.3
06...	1107	10	44	8.5	18.5	7.3
06...	1108	15	44	8.5	18.5	7.3
06...	1109	20	44	8.5	18.5	7.3
06...	1110	25	48	7.9	15.5	6.7
06...	1111	30	43	7.6	13.5	6.3
06...	1112	40	43	7.4	11.0	6.0
06...	1113	50	45	7.4	7.5	6.1
06...	1114	60	46	7.3	6.5	5.9
06...	1115	70	47	7.2	6.0	5.8
06...	1116	80	47	7.2	5.5	5.7
06...	1117	90	47	7.1	6.0	5.7
06...	1118	100	47	7.1	6.0	5.6
06...	1119	110	47	7.1	5.5	5.6
06...	1120	120	47	7.1	5.5	5.6
06...	1121	130	47	7.1	5.5	5.6
SEP						
10...	0940	0.1	43	8.3	17.0	7.5
10...	0941	5.0	43	8.4	17.0	7.5
10...	0942	10	43	8.4	17.0	7.5
10...	0943	15	43	8.4	17.0	7.5
10...	0944	20	43	8.3	17.0	7.5
10...	0945	25	43	8.2	16.5	7.4
10...	0946	30	44	7.9	15.5	6.8
10...	0947	40	43	7.1	13.0	4.9
10...	0948	50	44	7.1	9.0	4.8
10...	0949	60	46	7.0	7.0	4.6
10...	0950	70	46	7.0	7.0	4.8
10...	0951	80	46	7.0	6.5	4.8
10...	0952	90	46	7.0	6.0	4.8
10...	0953	100	46	7.0	6.0	4.8
10...	0954	110	46	7.0	6.0	4.7
10...	0955	120	46	7.0	6.0	4.7
10...	0956	130	46	7.0	6.0	4.6

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	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)
OCT										
01...	1045	0.1	48	7.5	12.0	152	7.5	<1	21	6.3
01...	1100	150	50	6.9	7.0	--	2.8	--	21	6.6
MAY										
21...	1030	0.1	48	7.2	6.5	110	9.6	<1	21	6.6
21...	1045	110	48	7.5	4.0	--	8.2	--	22	6.6
JUN										
09...	1100	0.1	47	7.9	12.5	105	8.3	K1	19	5.6
09...	1115	100	49	7.4	4.5	--	7.5	--	21	6.3
JUL										
16...	1030	0.1	43	8.2	18.0	166	7.7	K1	18	5.6
16...	1045	130	47	7.2	5.5	--	6.6	--	21	6.4
AUG										
06...	1130	0.1	44	8.5	18.5	114	7.3	K1	18	5.6
06...	1145	130	47	7.1	5.5	--	5.6	--	20	6.3
SEP										
10...	1000	0.1	43	8.3	17.0	180	7.5	<1	19	5.9
10...	1015	130	46	7.0	6.0	--	4.6	--	21	6.5

K-Based on non-ideal colony count.

09018500 LAKE GRANBY (EAST) NEAR GRANBY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	ALKA-LINITY 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)
OCT										
01...	1.2	1.9	0.2	0.7	22	2.8	0.4	0.1	4.4	32
01...	1.2	2.0	0.2	0.9	23	3.0	0.4	0.1	5.6	36
MAY										
21...	1.2	1.9	0.2	0.6	24	2.4	0.4	0.1	4.9	39
21...	1.2	1.9	0.2	0.7	24	2.4	0.4	0.1	5.0	37
JUN										
09...	1.1	1.7	0.2	0.6	21	2.6	0.5	0.1	5.3	38
09...	1.2	1.9	0.2	0.6	23	2.7	0.4	0.1	5.1	40
JUL										
16...	1.0	1.6	0.2	0.6	20	2.4	0.3	0.1	4.6	40
16...	1.1	1.9	0.2	0.6	23	2.7	0.4	<0.1	5.0	38
AUG										
06...	1.0	1.6	0.2	0.6	20	1.9	0.3	0.1	4.5	34
06...	1.1	1.8	0.2	0.6	23	2.3	0.4	<0.1	5.0	38
SEP										
10...	1.1	1.6	0.2	0.6	21	2.0	0.3	0.1	4.8	32
10...	1.2	1.8	0.2	0.6	23	2.3	0.4	0.1	5.5	39

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	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)
OCT										
01...	31	<0.01	<0.05	<0.02	<0.2	<0.01	<0.01	<0.01	0.4	<0.1
01...	34	<0.01	0.10	<0.02	<0.2	0.01	<0.01	<0.01	--	--
MAY										
21...	33	<0.01	<0.05	<0.01	<0.2	<0.01	<0.01	<0.01	1.2	<0.1
21...	33	<0.01	<0.05	<0.01	<0.2	<0.01	<0.01	<0.01	--	--
JUN										
09...	31	<0.01	0.09	<0.01	<0.2	<0.01	<0.01	<0.01	1.3	<0.1
09...	32	<0.01	<0.05	<0.01	<0.2	<0.01	<0.01	<0.01	--	--
JUL										
16...	28	<0.01	<0.05	<0.01	<0.2	<0.01	<0.01	<0.01	1.2	<0.1
16...	32	<0.01	<0.05	<0.01	<0.2	<0.01	<0.01	<0.01	--	--
AUG										
06...	28	<0.01	<0.05	0.02	<0.2	<0.01	<0.01	0.01	2.3	<0.1
06...	32	<0.01	0.08	<0.01	<0.2	<0.01	<0.01	0.01	--	--
SEP										
10...	29	<0.01	<0.05	<0.01	<0.2	<0.01	<0.01	<0.01	1.2	<0.1
10...	32	<0.01	0.08	<0.01	<0.2	<0.01	<0.01	<0.01	--	--

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									
01...	1045	8	<0.5	<4.0	<1	<5	<3	<10	4
01...	1100	7	<0.5	<4.0	<1	<5	<3	<10	12
MAY									
21...	1030	7	0.9	4.3	<1	<5	<3	<10	5
21...	1045	7	1.0	<4.0	<1	<5	<3	<10	7
JUN									
09...	1100	7	<0.5	<4.0	<1	<5	<3	<10	34
09...	1115	7	<0.5	<4.0	<1	<5	<3	<10	8
JUL									
16...	1030	7	<0.5	4.0	<1	<5	<3	<10	15
16...	1045	8	<0.5	4.9	<1	<5	<3	<10	7
AUG									
06...	1130	7	<0.5	<4.0	1	<5	<3	<10	<3
06...	1145	8	<0.5	<4.0	<1	<5	<3	<10	6
SEP									
10...	1000	8	<0.5	<4.0	<1	<5	<3	<10	8
10...	1015	8	<0.5	<4.0	<1	<5	<3	<10	16

09018500 LAKE GRANBY (EAST) NEAR GRANBY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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									
01...	<10	<4	<1	<10	<10	<0.2	38	<6	<3
01...	<10	<4	1	<10	<10	<0.2	41	<6	<3
MAY									
21...	<10	<4	<1	<10	<10	<0.2	40	<6	<3
21...	<10	<4	<1	<10	10	<0.2	41	<6	<3
JUN									
09...	<10	<4	<1	<10	<10	<0.2	36	<6	<3
09...	<10	<4	<1	<10	<10	<0.2	40	<6	<3
JUL									
16...	<10	<4	<1	<10	<10	<0.2	33	<6	<3
16...	10	<4	<1	<10	<10	<0.2	38	<6	<3
AUG									
06...	10	<4	<1	<10	<10	<0.2	33	<6	<3
06...	<10	<4	<1	<10	<10	<0.2	39	<6	<3
SEP									
10...	<10	4	<1	<10	<10	<0.2	34	<6	5
10...	<10	<4	1	10	<10	<0.2	39	<6	<3

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 1996 TO SEPTEMBER 1997

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						
01...	1125	0.1	48	7.4	12.0	7.0
01...	1126	5.0	48	7.4	11.5	7.0
01...	1127	10	48	7.4	11.5	7.0
01...	1128	15	48	7.4	11.5	7.0
01...	1129	20	48	7.4	11.5	7.0
01...	1130	25	48	7.4	11.5	7.0
01...	1131	30	48	7.4	11.0	6.9
01...	1132	40	48	7.4	11.0	6.9
01...	1133	50	49	7.3	11.0	6.8
01...	1134	60	50	7.0	7.5	2.3
MAY						
21...	1100	0.1	48	7.8	7.5	9.4
21...	1101	5.0	48	7.8	6.5	9.5
21...	1102	10	48	7.8	6.0	9.5
21...	1103	15	48	7.8	5.5	9.5
21...	1104	20	48	7.7	5.5	9.5
21...	1105	25	48	7.7	5.5	9.4
21...	1106	30	48	7.7	5.0	9.3
21...	1107	40	48	7.7	5.0	9.2
21...	1108	50	48	7.7	4.5	9.1
21...	1109	60	48	7.6	4.5	9.0
JUN						
09...	1130	0.1	48	7.9	12.5	8.2
09...	1131	5.0	49	8.0	12.5	8.2
09...	1132	10	48	8.0	12.0	8.2
09...	1133	15	48	8.0	12.0	8.2
09...	1134	20	48	7.9	11.5	8.3
09...	1135	25	47	7.9	10.5	8.4
09...	1136	30	49	7.8	8.5	8.5
09...	1137	40	49	7.7	6.0	8.2
09...	1138	50	49	7.6	5.5	7.7
09...	1139	60	49	7.5	5.0	7.5
JUL						
16...	1140	0.1	44	8.1	18.5	7.8
16...	1141	5.0	44	8.2	17.5	7.9
16...	1142	10	44	8.2	17.0	7.9
16...	1143	15	48	8.3	17.0	7.8
16...	1144	20	48	8.3	16.0	7.9
16...	1145	25	47	8.2	15.5	7.8
16...	1146	30	46	7.9	15.0	7.5
16...	1147	40	44	7.5	11.0	6.8
16...	1148	50	46	7.4	7.5	6.5
16...	1149	60	47	7.3	6.5	6.2
AUG						
06...	1201	0.1	45	8.4	18.5	7.2
06...	1202	5.0	45	8.4	18.5	7.2
06...	1203	10	45	8.4	18.5	7.2
06...	1204	15	45	8.4	18.5	7.2
06...	1205	20	45	8.3	18.5	7.2
06...	1206	25	45	8.3	18.5	7.2
06...	1207	30	46	7.9	17.0	6.8
06...	1208	40	44	7.5	11.0	5.9
06...	1209	50	45	7.3	8.5	5.6
06...	1210	60	47	7.1	7.5	5.1
SEP						
10...	1030	0.1	44	8.4	17.0	7.5
10...	1031	5.0	44	8.4	17.0	7.5
10...	1032	10	44	8.4	17.0	7.5
10...	1033	15	44	8.4	17.0	7.5
10...	1034	20	44	8.4	17.0	7.5
10...	1035	25	44	8.4	17.0	7.4
10...	1036	30	44	8.0	16.0	6.9
10...	1037	40.	44	7.2	12.5	4.6
10...	1038	50.	45	7.1	9.5	4.3
10...	1039	60	46	7.0	8.0	3.7
10...	1040	70.	46	7.0	7.0	3.7

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)
OCT										
01...	1145	0.1	48	7.4	12.0	164	7.0	<1	21	6.3
01...	1200	60	50	7.0	7.5	--	2.3	--	21	6.5
MAY										
21...	1115	0.1	48	7.8	7.5	106	9.4	<1	21	6.6
21...	1130	60	48	7.6	4.5	--	9.0	--	22	6.7
JUN										
09...	1145	0.1	48	7.9	12.5	77.0	8.2	K1	20	6.0
09...	1200	60	49	7.5	5.0	--	7.5	--	21	6.4
JUL										
16...	1200	0.1	44	8.1	18.5	143	7.8	K1	18	5.7
16...	1215	60	47	7.3	6.5	--	6.2	--	19	6.0
AUG										
06...	1230	0.1	45	8.4	18.5	114	7.2	K1	18	5.7
06...	1245	60	47	7.1	7.5	--	5.1	--	19	5.8
SEP										
10...	1045	0.1	44	8.4	17.0	156	7.5	K1	19	5.9
10...	1100	70	46	7.0	7.0	--	3.7	--	21	6.5

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY 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)
OCT										
01...	1.2	1.9	0.2	0.7	23	2.8	0.3	0.1	4.5	34
01...	1.2	2.0	0.2	0.7	23	2.8	0.4	0.1	4.9	30
MAY										
21...	1.2	1.8	0.2	0.7	24	2.4	0.4	0.1	4.9	38
21...	1.2	1.9	0.2	0.6	24	2.4	0.4	0.1	5.0	37
JUN										
09...	1.1	1.8	0.2	0.6	22	2.7	0.5	0.1	5.2	38
09...	1.2	2.0	0.2	0.6	23	2.7	0.4	0.1	5.2	38
JUL										
16...	1.0	1.6	0.2	0.6	20	2.5	0.4	0.1	4.7	36
16...	1.0	1.8	0.2	0.6	23	2.6	0.4	<0.1	5.1	39
AUG										
06...	1.0	1.6	0.2	0.6	20	1.9	0.3	0.1	4.6	34
06...	1.0	1.7	0.2	0.6	22	2.1	0.4	0.1	5.0	37
SEP										
10...	1.1	1.6	0.2	0.6	21	2.0	0.4	0.1	4.8	35
10...	1.2	1.8	0.2	0.7	23	2.3	0.4	0.1	5.6	53

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	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)
OCT										
01...	32	<0.01	<0.05	<0.02	<0.2	<0.01	<0.01	<0.01	0.5	<0.1
01...	32	<0.01	<0.05	<0.02	<0.2	0.02	<0.01	<0.01	--	--
MAY										
21...	33	<0.01	<0.05	<0.01	<0.2	0.02	<0.01	<0.01	0.8	<0.1
21...	33	<0.01	<0.05	<0.01	<0.2	<0.01	<0.01	<0.01	--	--
JUN										
09...	31	<0.01	<0.05	<0.01	<0.2	<0.01	<0.01	<0.01	2.0	<0.1
09...	33	<0.01	<0.05	<0.01	<0.2	<0.01	<0.01	<0.01	--	--
JUL										
16...	29	<0.01	<0.05	<0.01	<0.2	<0.01	<0.01	<0.01	1.3	<0.1
16...	31	<0.01	<0.05	<0.01	<0.2	<0.01	<0.01	0.01	--	--
AUG										
06...	28	<0.01	<0.05	<0.01	0.2	<0.01	<0.01	0.01	2.4	<0.1
06...	30	<0.01	<0.05	<0.01	<0.2	<0.01	<0.01	0.01	--	--
SEP										
10...	29	<0.01	<0.05	<0.01	<0.2	<0.01	<0.01	<0.01	0.7	<0.1
10...	33	<0.01	0.07	<0.01	<0.2	<0.01	<0.01	<0.01	--	--

K-Based on non-ideal colony count.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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									
01...	1145	8	<0.5	<4.0	<1	<5	<3	<10	4
01...	1200	8	<0.5	<4.0	<1	<5	<3	<10	9
MAY									
21...	1115	7	<0.5	<4.0	<1	<5	<3	<10	<3
21...	1130	7	1.1	4.3	1	<5	<3	<10	3
JUN									
09...	1145	7	<0.5	<4.0	<1	<5	<3	<10	24
09...	1200	7	<0.5	<4.0	<1	<5	<3	<10	8
JUL									
16...	1200	7	<0.5	5.8	<1	<5	4	<10	15
16...	1215	7	<0.5	4.3	<1	<5	<3	<10	10
AUG									
06...	1230	7	<0.5	<4.0	<1	<5	<3	<10	6
06...	1245	7	<0.5	<4.0	<1	<5	<3	<10	7
SEP									
10...	1045	7	<0.5	<4.0	<1	<5	<3	<10	8
10...	1100	8	<0.5	4.8	<1	<5	<3	<10	15

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									
01...	20	<4	<1	<10	<10	<0.2	37	<6	<3
01...	<10	<4	11	<10	10	<0.2	39	<6	<3
MAY									
21...	<10	<4	<1	<10	10	<0.2	40	<6	5
21...	<10	<4	<1	<10	<10	<0.2	41	<6	<3
JUN									
09...	<10	<4	<1	<10	<10	<0.2	38	<6	<3
09...	<10	<4	<1	<10	<10	<0.2	40	<6	<3
JUL									
16...	11	<4	<1	<10	<10	<0.2	33	<6	<3
16...	<10	<4	<1	<10	<10	<0.2	36	<6	<3
AUG									
06...	<10	<4	<1	<10	<10	<0.2	33	<6	<3
06...	<10	<4	<1	<10	<10	<0.2	35	<6	<3
SEP									
10...	<10	<4	<1	<10	<10	<0.2	34	<6	<3
10...	15	<4	8	<10	<10	<0.2	39	<6	<3

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, 1,980 ft^3/s at 1330 June 12, gage height, 4.89 ft; minimum daily, 26 ft^3/s, Sept. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	70	378	246	419	107
2	---	---	---	---	---	---	---	73	412	379	534	107
3	---	---	---	---	---	---	---	72	436	374	604	108
4	---	---	---	---	---	---	---	81	701	288	462	186
5	---	---	---	---	---	---	---	82	1360	244	332	241
6	---	---	---	---	---	---	---	86	1570	170	298	242
7	---	---	---	---	---	---	---	79	1570	80	299	243
8	---	---	---	---	---	---	---	73	1580	72	180	178
9	---	---	---	---	---	---	---	72	1710	72	59	30
10	---	---	---	---	---	---	---	73	1860	72	317	29
11	---	---	---	---	---	---	---	73	1860	128	722	29
12	---	---	---	---	---	---	---	70	1910	170	853	29
13	---	---	---	---	---	---	---	68	1670	112	640	29
14	---	---	---	---	---	---	---	74	694	67	458	28
15	---	---	---	---	---	---	---	77	225	74	173	29
16	---	---	---	---	---	---	---	76	229	77	47	29
17	---	---	---	---	---	---	---	72	333	74	47	28
18	---	---	---	---	---	---	---	72	420	74	49	28
19	---	---	---	---	---	---	---	72	419	76	223	29
20	---	---	---	---	---	---	---	68	418	74	413	31
21	---	---	---	---	---	---	---	72	421	74	437	29
22	---	---	---	---	---	---	---	83	422	74	438	28
23	---	---	---	---	---	---	---	68	697	74	438	28
24	---	---	---	---	---	---	---	70	900	74	438	28
25	---	---	---	---	---	---	---	68	570	77	303	28
26	---	---	---	---	---	---	---	70	179	76	214	28
27	---	---	---	---	---	---	---	155	95	75	217	27
28	---	---	---	---	---	---	---	297	74	75	152	26
29	---	---	---	---	---	---	---	327	69	73	106	27
30	---	---	---	---	---	---	---	361	99	81	106	28
31	---	---	---	---	---	---	---	385	---	168	107	---
TOTAL	---	---	---	---	---	---	---	3439	23281	3844	10085	2037
MEAN	---	---	---	---	---	---	---	111	776	124	325	67.9
MAX	---	---	---	---	---	---	---	385	1910	379	853	243
MIN	---	---	---	---	---	---	---	68	69	67	47	26
AC-FT	---	---	---	---	---	---	---	6820	46180	7620	20000	4040

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, 8,750 acre-ft, July 5, and Aug. 5, elevation, 8,128.92 ft; minimum, 5,730 acre-ft, Apr. 1, 6, elevation, 8,116.95 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	8,126.64	8,090	-
Oct. 31	8,121.48	6,760	-1,330
Nov. 30	8,118.04	5,960	-800
Dec. 31	8,120.84	6,600	+640
CAL YR 1996	-	-	-20
Jan. 31	8,123.12	7,160	+560
Feb. 28	8,124.75	7,580	+420
Mar. 31	8,117.03	5,740	-1,840
Apr. 30	8,119.26	6,240	+500
May 31	8,122.40	6,980	+740
June 30	8,127.98	8,470	+1,490
July 31	8,128.75	8,700	+230
Aug. 31	8,128.09	8,500	-200
Sept. 30	8,128.25	8,550	+50
WTR YR 1997	-	-	+460

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	e6.2	e4.4	e3.0	e2.5	e3.0	e2.9	4.3	68	57	e20	9.0
2	10	e6.0	e4.4	e3.1	e2.6	e3.1	e2.9	4.3	98	51	e19	9.6
3	10	e5.9	e4.2	e3.1	e2.6	e3.0	e2.8	4.3	132	48	e18	13
4	10	e5.8	e4.1	e3.1	e2.5	e2.9	e2.9	5.2	166	44	e19	12
5	10	e5.8	e4.0	e3.2	e2.5	e2.8	e2.8	6.6	180	41	20	11
6	9.5	e5.8	e3.9	e3.2	e2.4	e2.7	e3.0	8.1	171	37	19	11
7	9.2	e5.8	e3.8	e3.2	e2.3	e2.7	e3.2	9.7	220	35	17	11
8	9.0	e5.8	e3.7	e3.1	e2.4	e2.7	e3.2	11	200	34	16	11
9	8.9	e5.8	e3.6	e3.0	e2.4	e2.7	e3.1	12	149	32	16	10
10	8.7	e5.8	e3.6	e3.0	e2.4	e2.7	e3.0	14	125	30	17	10
11	8.6	e5.7	e3.6	e3.0	e2.4	e2.6	e2.9	15	129	29	16	10
12	8.6	e5.7	e3.5	e3.0	e2.5	e2.7	e3.0	16	130	28	15	9.8
13	8.5	e5.6	e3.4	e3.0	e2.5	e2.8	e3.0	17	123	27	15	9.4
14	8.4	e5.7	e3.5	e3.0	e2.6	e2.8	e3.0	20	124	27	14	9.0
15	8.2	e5.6	e3.4	e2.8	e2.6	e2.6	e3.2	22	118	27	13	9.3
16	8.0	e5.5	e3.4	e2.8	e2.7	e2.7	e3.5	28	108	29	13	9.6
17	7.6	e5.2	e3.3	e2.7	e2.6	e2.6	e3.7	33	106	27	13	8.7
18	e7.5	e5.0	e3.2	e2.7	e2.6	e2.6	e3.9	36	118	27	13	8.4
19	e7.4	e4.9	e3.1	e2.6	e2.6	e2.6	e4.2	40	147	26	13	8.5
20	e7.3	e4.8	e3.1	e2.5	e2.5	e2.6	e4.5	42	149	25	12	10
21	e7.2	e4.7	e3.0	e2.5	e2.4	e2.6	e4.0	44	140	24	11	9.2
22	e7.1	e4.7	e3.0	e2.5	e2.5	e2.6	e3.7	50	135	e24	11	9.7
23	e7.0	e4.7	e2.9	e2.5	e2.6	e2.6	e3.6	46	122	e24	11	9.4
24	e6.9	e4.7	e2.9	e2.5	e2.7	e2.7	e3.5	44	104	e23	10	9.0
25	e6.8	e4.7	e3.0	e2.5	e2.8	e2.7	e3.7	42	92	e22	10	8.6
26	e6.8	e4.7	e2.9	e2.5	e2.9	e2.7	e3.6	37	86	e20	10	8.9
27	e6.8	e4.6	e3.0	e2.5	e3.0	e2.7	e3.9	33	79	e19	9.8	9.0
28	e6.5	e4.5	e3.0	e2.5	e3.1	e2.7	e4.4	30	71	e19	9.6	9.1
29	e6.3	e4.4	e3.0	e2.5	---	e2.8	e4.6	32	66	e20	9.4	9.1
30	e6.3	e4.5	e3.0	e2.5	---	e2.8	4.5	34	61	e20	9.2	8.9
31	e6.2	---	e3.0	e2.5	---	e2.9	---	43	---	e21	9.2	---
TOTAL	249.3	158.6	105.9	86.6	72.2	84.7	104.2	783.5	3717	917	428.2	291.2
MEAN	8.04	5.29	3.42	2.79	2.58	2.73	3.47	25.3	124	29.6	13.8	9.71
MAX	10	6.2	4.4	3.2	3.1	3.1	4.6	50	220	57	20	13
MIN	6.2	4.4	2.9	2.5	2.3	2.6	2.8	4.3	61	19	9.2	8.4
AC-FT	494	315	210	172	143	168	207	1550	7370	1820	849	578

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1997, BY WATER YEAR (WY)

MEAN	5.80	3.97	2.94	2.33	1.98	2.08	4.40	26.9	72.5	30.1	12.1	8.01
MAX	9.66	5.62	3.68	2.85	2.58	2.73	6.45	44.0	124	74.6	20.8	13.0
(WY)	1985	1985	1971	1985	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1969 - 1997	
ANNUAL TOTAL	6073.0		6998.4			
ANNUAL MEAN	16.6		19.2		14.4	
HIGHEST ANNUAL MEAN					19.2	1997
LOWEST ANNUAL MEAN					10.4	1994
HIGHEST DAILY MEAN	108	Jun 10	220	Jun 7	220	Jun 7 1997
LOWEST DAILY MEAN	e1.6	Feb 3	e2.3	Feb 7	1.2	Feb 26 1989
ANNUAL SEVEN-DAY MINIMUM	1.7	Jan 28	2.4	Feb 5	1.4	Feb 20 1989
INSTANTANEOUS PEAK FLOW			a291	Jun 8	a291	Jun 8 1997
INSTANTANEOUS PEAK STAGE			b2.08	Jun 8	b2.08	Jun 8 1997
ANNUAL RUNOFF (AC-FT)	12050		13880		10440	
10 PERCENT EXCEEDS	59		44		43	
50 PERCENT EXCEEDS	5.9		5.9		4.9	
90 PERCENT EXCEEDS	1.9		2.6		1.9	

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 1996 TO SEPTEMBER 1997

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							
23...	1427	7.1	82	8.0	1.5	12.8	8.1
NOV							
22...	0911	4.5	90	8.0	0.5	10.5	10
DEC							
27...	1533	3.0	88	8.0	0.5	10.2	8.9
JAN							
21...	1424	2.4	91	7.9	0.5	--	10
FEB							
27...	1601	3.0	118	7.8	0.0	10.1	15
MAR							
20...	1215	2.6	197	7.5	1.5	9.4	40
APR							
08...	0930	3.2	161	8.5	0.0	10.2	32
MAY							
01...	0915	4.2	213	8.1	0.0	9.7	47
JUN							
17...	1650	112	--	7.6	5.0	10.5	5.0
JUL							
18...	1130	25	62	7.3	6.5	8.8	4.8
AUG							
04...	1500	19	62	--	11.0	8.3	4.8
SEP							
08...	1100	11	73	8.2	6.0	8.3	4.7

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						
23...	4	<0.001	0.050	<0.002	0.001	<0.001
NOV						
22...	<1	<0.001	0.093	0.004	0.003	<0.001
DEC						
27...	2	<0.001	0.110	<0.002	0.001	<0.001
JAN						
21...	<1	<0.001	0.095	<0.002	<0.001	0.001
FEB						
27...	6	<0.001	0.080	<0.002	0.004	<0.001
MAR						
20...	<1	<0.001	0.082	0.003	0.001	<0.001
APR						
08...	<1	<0.001	0.120	<0.002	<0.001	0.002
MAY						
01...	4	0.001	0.094	<0.002	0.001	0.001
JUN						
17...	<1	0.002	0.059	<0.002	0.003	0.003
JUL						
18...	<1	0.009	0.040	0.008	0.001	0.003
AUG						
04...	3	0.002	0.025	0.006	0.002	0.004
SEP						
08...	<1	<0.001	0.039	<0.002	0.002	<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 1996 TO SEPTEMBER 1997

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							
23...	1248	8.0	91	8.4	2.0	14.7	6.8
NOV							
22...	1425	5.4	118	8.1	2.5	9.9	13
DEC							
27...	1330	3.9	96	8.2	1.0	10.4	7.5
JAN							
21...	1251	4.1	100	8.2	1.0	--	9.4
FEB							
27...	1426	5.1	122	8.4	1.0	10.3	13
MAR							
20...	1115	6.2	186	7.4	3.0	9.8	31
APR							
08...	1100	5.7	161	8.3	1.5	10.4	27
MAY							
01...	1000	6.9	196	8.7	0.5	10.0	37
JUN							
17...	1608	224	39	7.6	5.5	9.3	2.6
JUL							
18...	1030	39	62	7.4	6.0	9.1	4.3
AUG							
04...	1415	31	67	--	11.0	8.0	4.9
SEP							
08...	1145	18	77	7.8	7.5	8.4	4.7

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						
23...	3	<0.001	0.011	<0.002	0.002	<0.001
NOV						
22...	62	<0.001	0.047	<0.002	0.004	<0.001
DEC						
27...	6	<0.001	0.086	<0.002	0.002	<0.001
JAN						
21...	2	<0.001	0.080	0.003	<0.001	0.002
FEB						
27...	6	<0.001	0.065	0.005	<0.001	<0.001
MAR						
20...	12	0.002	0.098	0.012	0.002	0.002
APR						
08...	<1	<0.001	0.099	<0.002	<0.001	0.001
MAY						
01...	3	0.001	0.091	0.003	0.002	0.003
JUN						
17...	3	0.001	0.074	<0.002	0.004	0.004
JUL						
18...	<1	0.008	0.087	0.014	--	--
AUG						
04...	1	0.001	0.024	0.004	0.002	0.003
SEP						
08...	3	0.001	0.054	<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. 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	6.8	e6.2	e5.6	e5.2	e5.4	e6.6	9.5	92	102	32	18
2	25	e6.7	e6.0	e5.6	e5.3	e5.4	e6.6	8.8	120	e85	29	19
3	26	e6.7	e6.1	e5.8	e5.2	e5.6	e6.4	8.2	113	e78	28	22
4	26	6.7	e6.1	e5.7	e5.2	e5.4	e6.6	9.6	188	e74	36	19
5	25	e6.5	e6.0	e5.8	e5.2	e5.4	e6.4	12	230	e70	37	17
6	24	e6.4	e6.0	e5.8	e5.2	e5.4	e6.4	13	230	e66	37	18
7	23	e6.4	e6.0	e5.8	e5.2	e5.4	e6.5	15	248	e63	33	18
8	22	e6.4	e6.0	e5.7	e5.0	e5.6	e6.8	17	262	e59	30	17
9	22	e6.4	e6.0	e5.6	e5.0	e5.8	e6.8	17	237	57	29	16
10	21	e6.4	e6.0	e5.6	e5.0	e6.0	e6.6	18	219	53	33	16
11	21	e6.4	e6.1	e5.6	e5.0	e6.1	e6.0	17	263	52	31	16
12	20	e6.4	e6.0	e5.6	e5.0	e6.3	e6.0	19	265	50	28	16
13	20	e6.4	e6.0	e5.6	e5.0	e6.4	e6.0	20	251	49	27	15
14	20	e6.6	e6.0	e5.6	e5.2	e6.4	e6.4	21	244	48	27	14
15	19	6.3	e6.2	e5.6	e5.2	e6.1	e6.8	21	235	48	25	11
16	19	e6.3	e6.1	e5.4	e5.1	e6.3	e7.1	24	230	47	25	12
17	14	e6.3	e6.1	e5.4	e5.2	e6.2	e7.7	25	243	45	25	11
18	e16	e6.3	e5.9	e5.4	e5.1	e6.2	8.5	25	235	44	24	10
19	15	6.4	e5.8	e5.4	e5.1	e6.2	e9.4	27	278	42	24	10
20	15	6.2	e5.8	e5.4	e5.0	e6.4	e10	26	286	40	23	12
21	e13	e6.2	e5.8	e5.4	e4.9	e6.2	e9.0	28	264	39	22	11
22	e11	6.3	e5.8	e5.2	e4.8	e6.4	e8.6	39	257	37	21	12
23	e9.2	6.1	e5.8	e5.2	e4.8	e6.4	e8.2	33	244	37	20	11
24	e7.5	6.0	e5.8	e5.2	e4.8	e6.4	e8.2	31	231	36	20	11
25	7.4	e6.0	e5.8	e5.2	e4.9	e6.4	e8.0	30	217	35	21	10
26	7.4	e6.0	e5.9	e5.2	e5.0	e6.4	e8.6	27	211	32	20	9.9
27	e7.4	e6.0	e5.8	e5.2	e5.1	e6.6	e8.5	26	200	31	19	9.7
28	7.5	e6.0	e5.8	e5.2	e5.2	e6.5	e9.0	26	178	31	19	9.3
29	7.3	e6.0	e5.8	e5.2	---	e6.4	e10	35	159	32	18	9.5
30	e7.0	e6.0	e5.8	e5.2	---	e6.3	e9.6	30	130	33	18	9.1
31	e6.8	---	e5.8	e5.2	---	e6.4	---	45	---	35	18	---
TOTAL	509.5	189.6	184.3	169.4	141.9	188.4	227.3	703.1	6560	1550	799	409.5
MEAN	16.4	6.32	5.95	5.46	5.07	6.08	7.58	22.7	219	50.0	25.8	13.6
MAX	26	6.8	6.2	5.8	5.3	6.6	10	45	286	102	37	22
MIN	6.8	6.0	5.8	5.2	4.8	5.4	6.0	8.2	92	31	18	9.1
AC-FT	1010	376	366	336	281	374	451	1390	13010	3070	1580	812

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1997, BY WATER YEAR (WY)

MEAN	10.8	9.67	7.70	6.70	6.26	6.69	12.8	49.4	116	48.8	19.5	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1911 - 1997	
ANNUAL TOTAL	11724.6		11632.0			
ANNUAL MEAN	32.0		31.9		25.6	
HIGHEST ANNUAL MEAN					60.9	1914
LOWEST ANNUAL MEAN					5.93	1954
HIGHEST DAILY MEAN	238	Jun 18	286	Jun 20	622	Jun 14 1918
LOWEST DAILY MEAN	e,a 5.8	Dec 19	e,b 4.8	Feb 22	c 2.0	Mar 29 1912
ANNUAL SEVEN-DAY MINIMUM	5.8	Dec 19	4.9	Feb 20	2.1	Oct 5 1956
INSTANTANEOUS PEAK FLOW			435	Jun 9	820	Jun 13 1918
INSTANTANEOUS PEAK STAGE			2.95	Jun 9	d 2.90	Jun 13 1918
ANNUAL RUNOFF (AC-FT)	23260		23070		18540	
10 PERCENT EXCEEDS	86		64		59	
50 PERCENT EXCEEDS	13		8.6		8.9	
90 PERCENT EXCEEDS	6.1		5.2		4.2	

e-Estimated.
a-Also occurred Dec 20-25, 27-31.
b-Also occurred Feb 23-24.
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 NE1/4NW1/4 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	e4.5	e6.8	e7.4	e7.2	e6.4	e8.8	9.8	55	97	8.7	7.2
2	6.3	e4.4	e6.8	e8.0	e7.2	e6.4	e9.0	8.4	119	12	8.4	8.1
3	6.1	e4.3	e6.8	e8.6	e7.2	e6.4	e8.8	6.3	135	11	8.3	9.0
4	6.2	e4.3	e6.8	e8.6	e7.2	e6.2	e9.4	7.0	186	10	23	9.1
5	6.4	e4.3	e6.8	e8.6	e7.2	e6.2	e9.8	8.7	241	10	56	8.7
6	6.3	e4.3	e7.0	e8.6	e7.2	e6.2	e9.8	10	214	9.7	54	8.4
7	6.2	e4.2	e7.2	e8.7	e7.2	e6.4	e9.8	12	241	9.3	46	8.3
8	e6.1	e4.3	e7.2	e8.8	e7.2	e6.6	e9.8	12	266	9.9	26	8.3
9	e6.0	e4.5	e7.2	e8.6	e7.0	e6.7	e9.8	11	262	10	10	8.4
10	e5.7	e4.7	e7.3	e8.6	e6.8	e6.7	e11	13	243	12	11	8.1
11	e5.6	e4.8	e7.3	e8.6	e6.8	e6.8	e10	13	251	11	9.7	8.6
12	e5.2	e5.0	e7.4	e8.6	e6.8	e6.8	e10	15	251	8.7	9.2	8.6
13	e5.2	e5.2	e7.4	e8.6	e7.0	e6.6	e9.8	16	244	8.4	8.9	8.4
14	e5.2	e5.4	e7.0	e8.8	e6.8	e6.8	e9.8	17	237	8.8	9.5	8.4
15	e5.2	e5.4	e6.8	e9.0	e6.6	e6.9	e9.9	20	225	10	8.9	8.7
16	e5.2	e5.4	e7.0	e8.4	e6.6	e7.0	e10	25	212	17	8.7	9.0
17	e5.1	e5.8	e7.8	e8.2	e6.6	e7.0	e11	27	207	11	8.6	7.4
18	e5.0	e6.0	e8.0	e8.0	e6.4	e7.0	e12	28	219	19	8.8	5.1
19	e4.9	e6.4	e8.0	e7.8	e6.4	e7.0	e12	31	263	11	9.0	5.2
20	e4.8	e6.4	e8.0	e7.4	e6.4	e7.0	e13	29	293	10	8.9	6.1
21	e4.8	e6.4	e7.8	e7.3	e6.4	e7.0	e12	28	288	9.3	8.4	5.6
22	e4.9	e6.0	e7.7	e7.2	e6.4	e7.6	e11	50	279	11	8.9	6.2
23	e5.0	e6.4	e7.6	e7.2	e6.4	e7.6	e10	51	251	12	8.3	5.9
24	e5.0	e6.0	e7.6	e7.2	e6.4	e7.6	e10	38	231	12	8.2	5.7
25	e5.0	e5.8	e7.4	e7.2	e6.4	e7.6	e9.8	35	217	11	8.5	5.6
26	e5.0	e5.6	e7.4	e7.4	e6.4	e7.6	e10	29	204	11	8.5	5.6
27	e5.1	e5.6	e7.2	e7.2	e6.4	e7.4	e11	23	190	11	8.4	5.6
28	e5.2	e5.8	e7.0	e7.2	e6.4	e7.4	e11	20	182	9.5	8.3	5.4
29	e5.0	e6.2	e7.0	e7.2	---	e8.4	e11	29	176	11	8.0	5.5
30	e4.6	e7.0	e7.0	e7.2	---	e8.0	10	27	158	9.1	7.7	5.5
31	e4.5	---	e7.0	e7.2	---	e8.0	---	28	---	9.6	7.2	---
TOTAL	167.5	160.4	225.3	247.4	189.0	217.3	309.3	677.2	6540	422.3	432.0	215.7
MEAN	5.40	5.35	7.27	7.98	6.75	7.01	10.3	21.8	218	13.6	13.9	7.19
MAX	6.7	7.0	8.0	9.0	7.2	8.4	13	51	293	97	56	9.1
MIN	4.5	4.2	6.8	7.2	6.4	6.2	8.8	6.3	55	8.4	7.2	5.1
AC-FT	332	318	447	491	375	431	613	1340	12970	838	857	428

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1997, BY WATER YEAR (WY)

MEAN	6.09	6.77	5.54	4.81	4.43	4.56	7.56	27.2	67.8	23.3	7.91	6.76
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1934 - 1997	
ANNUAL TOTAL	8316.7		9803.4			
ANNUAL MEAN	22.7		26.9			
HIGHEST ANNUAL MEAN					39.6	1936
LOWEST ANNUAL MEAN					2.30	1963
HIGHEST DAILY MEAN	196	Jun 22	293	Jun 20	417	Jun 25 1983
LOWEST DAILY MEAN	e4.2	Nov 7	e4.2	Nov 7	a.00	Sep 9 1944
ANNUAL SEVEN-DAY MINIMUM	4.3	Nov 2	4.3	Nov 2	.00	Sep 9 1944
INSTANTANEOUS PEAK FLOW			364	Jun 19	b526	Jun 27 1983
INSTANTANEOUS PEAK STAGE			3.26	Jun 19	4.14	Jun 27 1983
ANNUAL RUNOFF (AC-FT)	16500		19450			
10 PERCENT EXCEEDS	66		41		22	
50 PERCENT EXCEEDS	7.4		8.0		5.6	
90 PERCENT EXCEEDS	5.2		5.4		1.5	

e-Estimated.
a-Also no flow at times in 1946, 1956, 1960, and 1966.
b-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 1996 TO SEPTEMBER 1997

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							
23...	1102	11	81	7.7	0.0	10.7	5.4
NOV							
22...	1303	11	76	8.2	1.5	10.7	5.3
DEC							
27...	1114	10	77	7.6	0.0	--	4.3
JAN							
21...	1145	12	92	7.5	0.0	--	4.6
FEB							
27...	1305	13	90	8.2	0.0	10.1	6.9
MAR							
20...	1030	18	137	7.5	0.0	10.5	16
APR							
08...	1145	22	126	8.1	0.5	10.7	16
MAY							
01...	1130	21	129	7.5	1.0	9.9	18
JUN							
17...	1428	400	33	7.5	6.0	8.8	1.5
JUL							
18...	0915	54	59	7.5	7.0	8.9	3.7
AUG							
04...	1330	40	65	--	13.5	8.3	4.0
SEP							
08...	1330	28	72	7.5	11.5	7.4	3.7

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						
23...	4	0.004	0.042	<0.002	0.005	<0.001
NOV						
22...	<1	<0.001	0.091	0.027	0.008	<0.001
DEC						
27...	4	<0.001	0.190	0.248	0.017	0.010
JAN						
21...	2	<0.001	0.240	0.427	0.027	0.035
FEB						
27...	2	0.005	--	0.460	0.043	0.027
MAR						
20...	3	0.004	0.270	0.539	0.047	0.050
APR						
08...	<1	<0.001	0.370	0.064	0.026	0.028
MAY						
01...	3	0.004	0.140	0.135	0.012	0.013
JUN						
17...	3	0.002	0.048	<0.002	0.005	0.004
JUL						
18...	<1	0.013	0.087	0.011	0.005	0.003
AUG						
04...	2	0.004	0.046	0.003	0.005	0.007
SEP						
08...	5	0.013	0.160	<0.002	0.009	0.006

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 September 1997.

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.92	e.70	e.68	e.67	e.56	e.39	e.46	.71	.00	10	2.0	1.1
2	1.1	e.68	e.68	e.67	e.56	e.39	e.46	.71	.06	9.2	1.8	1.1
3	1.2	e.68	e.67	e.67	e.56	e.39	e.46	.72	3.6	8.5	1.8	1.1
4	1.2	e.68	e.67	e.67	e.56	e.39	e.46	.80	13	7.9	1.8	1.1
5	1.2	e.68	e.67	e.67	e.56	e.39	e.46	1.0	18	7.3	1.8	1.0
6	.96	e.68	e.67	e.67	e.56	e.39	e.46	.49	18	6.4	1.8	1.0
7	.88	e.68	e.67	e.67	e.52	e.39	e.46	.00	18	5.0	1.8	.98
8	e.84	e.68	e.67	e.67	e.50	e.39	e.46	.00	18	2.1	1.6	.96
9	e.81	e.68	e.67	e.67	e.50	e.39	e.46	.00	18	1.3	1.7	.92
10	e.76	e.68	e.67	e.67	e.50	e.39	e.46	.00	20	1.3	1.9	.91
11	e.71	e.68	e.67	e.67	e.50	e.39	e.46	.00	20	1.2	1.8	.95
12	e.67	e.68	e.67	e.67	e.47	e.39	e.46	.00	20	1.2	1.7	.94
13	e.66	e.68	e.67	e.67	e.47	e.39	e.46	.00	20	1.3	1.6	.94
14	e.63	e.68	e.67	e.67	e.47	e.39	e.46	.00	20	1.8	1.6	.91
15	e.62	e.68	e.67	e.67	e.47	e.40	e.46	.00	20	2.3	1.5	.94
16	e.60	e.68	e.67	e.67	e.45	e.41	e.47	.00	20	2.5	1.4	.98
17	e.64	e.68	e.67	e.64	e.45	e.41	e.48	.00	19	2.4	1.4	.90
18	e.64	e.68	e.67	e.62	e.45	e.41	e.50	.00	20	2.4	1.4	.89
19	e.66	e.68	e.67	e.62	e.42	e.41	e.52	.00	20	2.3	1.5	.93
20	e.63	e.68	e.67	e.62	e.42	e.43	e.52	.00	19	2.3	1.4	1.3
21	e.66	e.68	e.67	e.62	e.42	e.43	e.52	.00	19	2.2	1.3	1.0
22	e.66	e.68	e.67	e.62	e.39	e.43	e.52	.35	19	2.2	1.3	1.1
23	e.67	e.68	e.67	e.62	e.39	e.45	e.52	.44	19	2.2	1.2	1.0
24	e.67	e.68	e.67	e.62	e.39	e.45	e.52	.02	19	2.2	1.2	.91
25	e.67	e.68	e.67	e.62	e.39	e.45	e.52	.00	17	2.1	1.3	.72
26	e.67	e.68	e.67	e.62	e.39	e.45	e.54	.00	16	2.0	1.2	.73
27	e.67	e.68	e.67	e.60	e.39	e.45	e.56	.00	15	2.0	1.2	.67
28	e.67	e.68	e.67	e.56	e.39	e.45	e.58	.00	14	1.9	1.1	.66
29	e.68	e.68	e.67	e.56	---	e.45	e.62	.00	13	2.0	1.1	.49
30	e.68	e.68	e.67	e.56	---	e.46	e.70	.00	12	2.0	1.1	.30
31	e.70	---	e.67	e.56	---	e.46	---	.00	---	2.1	1.1	---
TOTAL	23.73	20.42	20.79	19.78	13.10	12.86	14.99	5.24	487.66	101.6	46.4	27.43
MEAN	.77	.68	.67	.64	.47	.41	.50	.17	16.3	3.28	1.50	.91
MAX	1.2	.70	.68	.67	.56	.46	.70	1.0	20	10	2.0	1.3
MIN	.60	.68	.67	.56	.39	.39	.46	.00	.00	1.2	1.1	.30
AC-FT	47	41	41	39	26	26	30	10	967	202	92	54

SUMMARY STATISTICS	FOR 1997 WATER YEAR	
ANNUAL TOTAL	794.00	
ANNUAL MEAN	2.18	
HIGHEST DAILY MEAN	[a]20	Jun 10
LOWEST DAILY MEAN	[b].00	May 7
ANNUAL SEVEN-DAY MINIMUM	.00	May 7
INSTANTANEOUS PEAK FLOW	22	Jun 10
INSTANTANEOUS PEAK STAGE	5.69	Jun 10
ANNUAL RUNOFF (AC-FT)	1570	
10 PERCENT EXCEEDS	2.4	
50 PERCENT EXCEEDS	.67	
90 PERCENT EXCEEDS	.39	

e-Estimated.
a-Also occurred Jun 11-16, and 18-19.
b-No flow many days.

09026500 ST. LOUIS CREEK NEAR FRASER, CO

LOCATION.--Lat 39°54'36", long 105°52'40", in SE1/4SW1/4 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	e7.2	e8.4	7.6	6.5	5.7	5.4	6.5	91	195	17	13
2	24	e6.6	e8.9	7.6	6.4	5.7	5.3	8.2	122	136	16	16
3	26	e6.7	e9.5	7.7	6.4	5.6	5.2	6.1	120	103	16	17
4	25	e6.6	10	7.7	6.6	5.6	5.6	7.1	210	99	28	17
5	25	e6.5	9.8	9.5	6.5	5.3	8.8	9.0	264	95	56	16
6	22	e6.5	9.5	8.2	6.3	5.4	e8.3	10	270	58	54	15
7	20	e6.5	9.1	8.2	6.5	5.5	e7.6	12	301	25	42	15
8	19	e6.7	8.6	e8.3	6.7	5.5	e5.8	15	315	23	20	14
9	18	e6.8	8.4	e8.5	7.0	5.3	e5.0	16	289	22	18	14
10	15	e7.0	8.4	e8.8	6.9	5.3	e4.5	18	262	21	18	13
11	9.2	e7.3	8.3	e9.0	6.8	6.3	e4.4	21	265	20	17	13
12	8.3	e7.6	8.2	e8.8	6.7	5.7	e4.3	22	259	20	17	14
13	8.0	e7.7	8.3	e8.7	6.5	12	e4.2	25	252	19	16	13
14	8.0	e7.3	8.6	e8.1	6.4	6.1	e4.2	31	252	19	17	14
15	8.5	e6.9	9.2	e7.1	6.2	5.3	e4.2	34	254	19	15	14
16	10	e7.2	8.5	e6.6	6.2	5.4	e4.1	34	241	19	16	16
17	11	e7.4	8.3	e6.9	5.9	6.7	e4.2	38	238	18	16	13
18	e16	e7.1	8.2	e7.2	5.9	5.5	e4.5	39	265	18	16	10
19	8.6	e6.8	8.2	e7.4	6.5	6.4	5.4	40	317	18	16	10
20	8.5	e7.4	8.0	e7.5	6.0	6.8	5.9	41	358	17	16	11
21	e14	e7.8	8.0	e7.5	5.8	8.0	8.0	41	365	17	14	10
22	8.3	e7.2	8.0	e7.3	5.9	7.5	5.9	63	408	17	14	15
23	8.5	e7.1	8.0	e7.2	5.9	7.7	5.9	65	368	18	14	16
24	7.9	e7.1	8.0	e7.4	5.8	6.0	5.7	48	326	19	14	13
25	7.5	e7.2	8.0	7.4	5.8	11	5.9	44	301	18	14	9.5
26	8.8	e6.7	8.0	7.3	5.9	9.4	5.7	42	269	16	15	9.1
27	9.8	e6.0	8.0	6.8	5.7	9.2	5.7	40	243	15	14	9.3
28	9.7	e6.7	7.7	7.0	5.7	12	6.2	39	230	15	14	9.0
29	9.2	e7.2	7.8	7.2	---	5.1	7.1	52	222	14	13	8.7
30	e8.6	e7.8	7.7	7.0	---	11	8.5	51	217	17	13	8.6
31	e8.2	---	7.7	7.0	---	11	---	56	---	19	13	---
TOTAL	413.6	210.6	261.3	238.5	175.4	219.0	171.5	973.9	7894	1149	599	386.2
MEAN	13.3	7.02	8.43	7.69	6.26	7.06	5.72	31.4	263	37.1	19.3	12.9
MAX	26	7.8	10	9.5	7.0	12	8.8	65	408	195	56	17
MIN	7.5	6.0	7.7	6.6	5.7	5.1	4.1	6.1	91	14	13	8.6
AC-FT	820	418	518	473	348	434	340	1930	15660	2280	1190	766

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1997, BY WATER YEAR (WY)

MEAN	11.9	9.40	7.65	6.84	6.30	6.40	9.49	37.8	118	67.3	24.3	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1934 - 1997	
ANNUAL TOTAL	12691.2		12692.0			
ANNUAL MEAN	34.7		34.8		26.7	
HIGHEST ANNUAL MEAN					48.9	1995
LOWEST ANNUAL MEAN					9.98	1963
HIGHEST DAILY MEAN	411	Jun 22	408	Jun 22	418	Jun 18 1995
LOWEST DAILY MEAN	[a]5.9	Jan 1	[e]4.1	Apr 16	[b]1.8	Jan 25 1968
ANNUAL SEVEN-DAY MINIMUM	6.5	Jan 1	4.2	Apr 11	1.8	Jan 24 1968
INSTANTANEOUS PEAK FLOW			485	Jun 21	558	Jun 17 1995
INSTANTANEOUS PEAK STAGE			2.70	Jun 21	[c]2.80	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	25170		25170		19370	
10 PERCENT EXCEEDS	99		64		63	
50 PERCENT EXCEEDS	11		8.8		10	
90 PERCENT EXCEEDS	7.3		5.8		4.7	

e-Estimated.
a-Also occurred Jan 2.
b-Also occurred Jan 26-30, Feb 1-2, and Feb 14, 1968.
c-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 1996 TO SEPTEMBER 1997

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							
23...	0919	11	104	8.0	0.5	15.4	5.2
NOV							
22...	1114	36	104	8.1	0.5	11.1	5.3
DEC							
27...	0907	20	98	7.8	0.0	10.1	4.7
JAN							
21...	0950	19	105	7.7	0.0	--	4.8
FEB							
27...	1044	25	117	8.0	0.0	12.0	8.2
MAR							
20...	0900	28	139	7.9	0.0	9.5	11
APR							
08...	1345	37	126	7.4	2.5	10.4	12
MAY							
01...	1345	51	117	7.7	4.5	9.9	11
JUN							
17...	0920	731	39	7.6	5.0	9.8	1.3
JUL							
18...	0815	59	71	7.7	9.0	8.9	3.7
AUG							
04...	1100	52	84	8.2	16.0	7.7	4.0
SEP							
08...	1430	39	84	9.0	16.5	8.6	3.6

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						
23...	<1	0.006	0.095	0.037	0.034	0.021
NOV						
22...	<1	0.003	0.220	0.026	0.040	0.015
DEC						
27...	8	0.008	0.500	0.219	0.073	0.065
JAN						
21...	<1	0.003	0.550	0.470	0.094	0.096
FEB						
27...	<1	0.002	0.520	0.398	0.089	0.084
MAR						
20...	6	0.006	0.600	0.643	0.150	0.150
APR						
08...	<1	0.006	0.550	0.098	0.110	0.110
MAY						
01...	9	0.009	0.270	0.189	0.060	0.063
JUN						
17...	1	0.002	0.038	<0.002	0.007	0.005
JUL						
18...	1	0.012	0.073	0.021	0.023	0.025
AUG						
04...	4	0.007	0.042	0.018	0.048	0.042
SEP						
08...	1	0.009	0.094	0.002	0.051	0.041

09032000 RANCH CREEK NEAR FRASER, CO

LOCATION.--Lat 39°57'00", long 105°45'54", in NW1/4NE1/4 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 (revised) 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	e2.6	e2.4	e2.4	e2.1	e1.8	e2.7	4.4	129	85	5.5	4.4
2	11	e2.7	e2.4	e2.4	e2.1	e1.8	e2.7	4.2	168	81	5.4	4.4
3	13	e2.8	e2.4	e2.4	e2.1	e1.8	e2.7	4.1	205	73	5.1	4.5
4	14	e2.8	e2.4	e2.4	e2.1	e1.9	e2.6	5.0	372	66	8.7	4.9
5	14	e2.8	e2.4	e2.3	e2.0	e1.9	e2.6	7.3	367	62	16	4.4
6	12	e2.6	e2.4	e2.3	e2.0	e1.9	e2.6	9.5	334	57	18	4.1
7	12	e2.6	e2.4	e2.3	e2.0	e1.9	e2.6	12	402	53	11	4.0
8	11	e2.6	e2.5	e2.3	e2.0	e2.0	e2.6	15	343	50	5.2	3.8
9	11	e2.6	e2.5	e2.2	e2.0	e2.0	e2.6	18	326	49	6.3	3.7
10	11	e2.6	e2.5	e2.2	e2.0	e2.0	e2.6	21	281	48	7.1	3.6
11	4.6	e2.6	e2.5	e2.2	e2.0	e2.1	e2.5	23	256	33	6.3	3.8
12	4.2	e2.6	e2.5	e2.2	e1.9	e2.1	e2.5	25	223	5.8	5.9	3.7
13	4.0	e2.6	e2.5	e2.1	e1.9	e2.2	e2.5	27	224	5.2	5.5	3.5
14	3.8	e2.6	e2.5	e2.1	e1.9	e2.3	e2.5	29	221	5.6	5.3	3.6
15	3.5	e2.6	e2.5	e2.1	e1.9	e2.3	e2.6	34	187	6.2	5.1	3.6
16	3.3	e2.5	e2.5	e2.1	e1.9	e2.4	e2.7	40	168	6.1	4.9	4.0
17	3.2	e2.5	e2.5	e2.1	e1.9	e2.4	e2.8	43	168	6.0	4.7	3.5
18	3.2	e2.5	e2.5	e2.1	e1.8	e2.4	e3.1	46	171	5.8	4.9	3.4
19	2.8	e2.6	e2.5	e2.1	e1.8	e2.5	e3.1	50	190	5.7	5.5	2.8
20	2.9	e2.6	e2.4	e2.1	e1.8	e2.5	e3.2	56	183	5.5	5.9	2.9
21	2.8	e2.7	e2.4	e2.1	e1.7	e2.5	e3.3	63	169	5.2	5.7	2.3
22	2.8	e2.7	e2.4	e2.2	e1.7	e2.5	e3.5	83	162	5.1	5.7	2.3
23	2.9	e2.7	e2.4	e2.2	e1.6	e2.5	e3.6	85	145	5.1	5.4	2.1
24	3.1	e2.7	e2.4	e2.2	e1.7	e2.5	e3.9	76	132	5.1	5.2	2.0
25	2.9	e2.6	e2.3	e2.2	e1.7	e2.5	e4.0	57	126	5.0	5.2	1.8
26	2.8	e2.6	e2.3	e2.2	e1.8	e2.5	e4.1	46	122	4.8	5.1	1.8
27	2.7	e2.5	e2.3	e2.2	e1.8	e2.5	e4.2	39	114	4.8	4.8	1.9
28	2.8	e2.4	e2.3	e2.2	e1.8	e2.5	e4.5	36	104	4.8	4.8	1.7
29	2.9	e2.4	e2.3	e2.2	---	e2.6	e4.5	48	97	5.0	4.7	1.6
30	2.8	e2.4	e2.4	e2.2	---	e2.6	4.5	45	92	5.5	4.4	1.6
31	2.7	---	e2.4	e2.1	---	e2.6	---	61	---	5.6	4.3	---
TOTAL	186.7	78.1	75.1	68.4	53.0	70.0	93.9	1112.5	6181	764.9	197.6	95.7
MEAN	6.02	2.60	2.42	2.21	1.89	2.26	3.13	35.9	206	24.7	6.37	3.19
MAX	14	2.8	2.5	2.4	2.1	2.6	4.5	85	402	85	18	4.9
MIN	2.7	2.4	2.3	2.1	1.6	1.8	2.5	4.1	92	4.8	4.3	1.6
AC-FT	370	155	149	136	105	139	186	2210	12260	1520	392	190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1997, BY WATER YEAR (WY)

MEAN	4.80	4.22	3.44	3.02	2.69	2.62	5.30	30.9	78.1	26.1	7.53	5.01
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1935 - 1997	
ANNUAL TOTAL	5993.6		8976.9			
ANNUAL MEAN	16.4		24.6		14.5	
HIGHEST ANNUAL MEAN					31.4	1983
LOWEST ANNUAL MEAN					2.55	1964
HIGHEST DAILY MEAN	187	May 19	402	Jun 7	402	Jun 7 1997
LOWEST DAILY MEAN	e 1.6	Jan 6	e,a 1.6	Feb 23	b .40	Sep 21 1960
ANNUAL SEVEN-DAY MINIMUM	1.9	Jan 1	1.7	Feb 19	.42	Sep 21 1988
INSTANTANEOUS PEAK FLOW			548	Jun 4	548	Jun 4 1997
INSTANTANEOUS PEAK STAGE			6.71	Jun 4	6.71	Jun 4 1997
ANNUAL RUNOFF (AC-FT)	11890		17810			
10 PERCENT EXCEEDS	58		69		31	
50 PERCENT EXCEEDS	3.0		2.8		4.1	
90 PERCENT EXCEEDS	2.1		2.0		1.8	

e-Estimated.
a-Also occurred Sep 29-30, which are not estimated discharges.
b-Also occurred Oct 6, 1960, and Sep 24-26, 1988.

09032000 RANCH CREEK NEAR FRASER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February to September 1997.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)
FEB							
27...	0835	1.8	57	8.0	0.0	10.1	K1
MAR							
21...	0930	2.5	58	8.2	0.0	11.2	K1
APR							
08...	1545	2.6	58	7.5	1.0	10.8	K1
MAY							
01...	1315	4.4	58	7.7	1.0	9.9	K1
JUN							
18...	0923	116	22	7.5	3.5	12.0	--
JUL							
17...	1530	7.8	40	7.3	11.0	7.7	11
AUG							
04...	1630	8.9	39	--	12.0	7.9	47
SEP							
09...	1400	3.8	48	8.0	9.5	7.9	<1

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)
FEB							
27...	0.20	6	0.001	0.056	<0.002	0.007	<0.001
MAR							
21...	0.30	<1	<0.001	0.044	<0.002	0.003	0.003
APR							
08...	0.3	<1	<0.001	0.060	<0.002	0.002	0.003
MAY							
01...	0.3	4	0.002	0.028	<0.002	0.006	0.006
JUN							
18...	0.3	<1	0.001	0.037	<0.002	0.004	0.003
JUL							
17...	0.1	<1	0.010	0.016	0.008	0.003	0.003
AUG							
04...	0.1	1	0.002	0.012	0.002	0.007	0.003
SEP							
09...	0.2	<1	<0.001	0.006	<0.002	0.004	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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	e4.8	e2.4	e2.9	e2.0	e1.3	e2.1	e3.7	e33	34	11	4.5
2	5.8	e4.5	e2.4	e3.0	e1.9	e1.3	e2.1	e3.6	e37	31	11	4.5
3	6.9	e4.3	e2.3	e2.7	e1.8	e1.3	e2.1	e3.6	e49	28	9.7	4.4
4	9.8	e4.1	e2.3	e2.4	e1.7	e1.2	e2.1	e4.0	e84	26	9.1	4.4
5	8.6	e4.0	e2.2	e2.2	e1.6	e1.2	e2.2	e5.0	91	25	9.5	4.2
6	7.0	e3.9	e2.3	e2.0	e1.6	e1.2	e2.2	e6.8	84	23	9.7	4.1
7	6.5	e3.8	e2.4	e1.9	e1.5	e1.3	e2.2	e7.4	112	22	8.4	4.0
8	6.4	e3.7	e2.5	e1.9	e1.5	e1.3	e2.2	e8.0	109	20	7.7	3.9
9	6.0	e3.6	e2.6	e1.9	e1.5	e1.3	e2.2	e9.1	106	19	10	3.7
10	5.8	e3.5	e2.8	e1.9	e1.5	e1.3	e2.3	e10	91	17	12	3.7
11	5.7	e3.5	e2.7	e2.0	e1.5	e1.4	e2.3	e11	85	16	11	4.2
12	5.5	e3.5	e2.5	e2.0	e1.6	e1.4	e2.3	e12	76	12	10	4.0
13	5.4	e3.5	e2.4	e2.0	e1.6	e1.5	e2.5	e13	77	9.2	9.8	3.7
14	5.3	e3.5	e2.3	e2.0	e1.5	e1.5	e2.5	e15	81	8.9	9.8	3.7
15	5.1	e3.5	e2.2	e2.1	e1.6	e1.5	e2.6	e17	73	10	8.9	3.7
16	5.0	e3.4	e2.1	e2.1	e1.6	e1.5	e2.7	e19	64	11	8.4	3.9
17	6.0	e3.4	e2.0	e2.1	e1.7	e1.6	e2.7	e22	63	10	8.1	3.5
18	e6.2	e3.4	e2.0	e2.1	e1.8	e1.6	e2.7	e24	65	8.9	7.9	3.5
19	6.4	e3.4	e2.1	e2.1	e1.7	e1.7	e2.7	e26	79	8.8	7.5	3.6
20	e6.0	e3.3	e2.1	e2.1	e1.6	e1.7	e2.8	e29	86	8.4	7.0	5.4
21	e6.0	e3.3	e2.2	e2.1	e1.4	e1.8	e2.9	e32	82	7.9	6.7	4.5
22	e5.8	e3.3	e2.2	e2.1	e1.3	e1.8	e3.0	e35	79	7.7	6.5	5.5
23	e6.2	e3.3	e2.3	e2.2	e1.2	e1.8	e3.3	e30	66	8.5	6.2	6.0
24	e6.4	e3.3	e2.1	e2.2	e1.2	e1.9	e3.4	e26	59	8.1	6.0	5.1
25	e6.2	e3.2	e2.1	e2.2	e1.1	e1.9	e3.5	e22	55	7.4	5.8	4.3
26	e6.0	e3.1	e2.2	e2.1	e1.2	e2.0	e3.7	e19	52	7.3	5.5	4.2
27	e6.0	e2.9	e2.3	e2.0	e1.2	e2.0	e3.9	e20	47	7.1	5.2	4.4
28	e5.7	e2.7	e2.4	e1.9	e1.2	e2.1	e3.9	e20	44	7.0	5.7	4.1
29	e5.3	e2.6	e2.5	e1.8	---	e2.1	e3.8	e24	41	7.2	5.3	4.1
30	e5.1	e2.5	e2.6	e1.8	---	e2.1	e3.7	e30	38	16	4.8	4.1
31	e5.0	---	e2.7	e1.9	---	e2.1	---	e32	---	14	4.6	---
TOTAL	189.4	104.8	72.2	65.7	42.6	49.7	82.6	539.2	2108	446.4	248.8	126.9
MEAN	6.11	3.49	2.33	2.12	1.52	1.60	2.75	17.4	70.3	14.4	8.03	4.23
MAX	9.8	4.8	2.8	3.0	2.0	2.1	3.9	35	112	34	12	6.0
MIN	5.0	2.5	2.0	1.8	1.1	1.2	2.1	3.6	33	7.0	4.6	3.5
AC-FT	376	208	143	130	84	99	164	1070	4180	885	493	252

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1997, BY WATER YEAR (WY)

MEAN	2.76	2.14	1.55	1.27	1.06	1.11	1.73	10.5	33.9	14.1	4.69	3.05
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1984 - 1997	
ANNUAL TOTAL	3155.0		4076.3			
ANNUAL MEAN	8.62		11.2			
HIGHEST ANNUAL MEAN					11.2	1997
LOWEST ANNUAL MEAN					3.77	1989
HIGHEST DAILY MEAN	64	Jun 15	112	Jun 7	112	Jun 7 1997
LOWEST DAILY MEAN	e,a 1.0	Feb 4	e 1.1	Feb 25	.04	May 7 1985
ANNUAL SEVEN-DAY MINIMUM	1.1	Feb 27	1.2	Feb 22	.07	Apr 12 1985
INSTANTANEOUS PEAK FLOW			162	Jun 8	162	Jun 8 1997
INSTANTANEOUS PEAK STAGE			2.38	Jun 8	b 2.38	Jun 8 1997
ANNUAL RUNOFF (AC-FT)	6260		8090			
10 PERCENT EXCEEDS	27		30		16	
50 PERCENT EXCEEDS	3.2		3.8		2.1	
90 PERCENT EXCEEDS	1.2		1.6		1.0	

e-Estimated.
a-Also occurred Feb 27 and Mar 4.
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 NW1/4SW1/4 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.--Not determined.

PERIOD OF RECORD.--May to September 1997.

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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period May to September, 184 ft^3/s at 2230, June 7, gage height, 12.30 ft; minimum daily, 0.06 ft^3/s, August 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	34	1.9	e.31	.15
2	---	---	---	---	---	---	---	---	34	1.9	e.30	.23
3	---	---	---	---	---	---	---	---	32	1.8	e.28	.16
4	---	---	---	---	---	---	---	---	28	1.8	e.27	.18
5	---	---	---	---	---	---	---	---	83	1.6	.27	.21
6	---	---	---	---	---	---	---	---	143	1.6	.40	.17
7	---	---	---	---	---	---	---	---	162	1.6	.36	.18
8	---	---	---	---	---	---	---	---	159	1.6	.25	.17
9	---	---	---	---	---	---	---	---	157	1.5	.24	.15
10	---	---	---	---	---	---	---	---	133	1.5	.52	.12
11	---	---	---	---	---	---	---	---	122	1.5	.51	.11
12	---	---	---	---	---	---	---	---	104	1.5	.41	.13
13	---	---	---	---	---	---	---	---	74	1.5	.32	.13
14	---	---	---	---	---	---	---	---	73	1.4	.27	.12
15	---	---	---	---	---	---	---	---	68	1.4	.30	.11
16	---	---	---	---	---	---	---	---	56	1.4	.16	.17
17	---	---	---	---	---	---	---	---	48	1.4	.13	.16
18	---	---	---	---	---	---	---	---	42	1.3	.14	.13
19	---	---	---	---	---	---	---	---	47	e1.2	.16	.22
20	---	---	---	---	---	---	---	---	47	e1.1	.18	.92
21	---	---	---	---	---	---	---	---	41	e.92	.16	.75
22	---	---	---	---	---	---	---	---	34	e.82	.13	.62
23	---	---	---	---	---	---	---	---	27	e.70	.10	.64
24	---	---	---	---	---	---	---	---	20	e.64	.09	.53
25	---	---	---	---	---	---	---	---	9.8	e.60	.07	.41
26	---	---	---	---	---	---	---	---	3.0	e.53	.07	.34
27	---	---	---	---	---	---	---	---	2.6	e.44	.10	.42
28	---	---	---	---	---	---	---	---	2.3	e.44	.09	.35
29	---	---	---	---	---	---	---	e40	2.1	e.41	.09	.21
30	---	---	---	---	---	---	---	32	2.0	e.35	.08	.18
31	---	---	---	---	---	---	---	32	---	e.33	.06	---
TOTAL	---	---	---	---	---	---	---	---	1789.8	36.68	6.82	8.37
MEAN	---	---	---	---	---	---	---	---	59.7	1.18	.22	.28
MAX	---	---	---	---	---	---	---	---	162	1.9	.52	.92
MIN	---	---	---	---	---	---	---	---	2.0	.33	.06	.11
AC-FT	---	---	---	---	---	---	---	---	3550	73	14	17

e-Estimated.

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.--Not determined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April to September 1997.

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 fair. 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period April to September, 763 ft³/s, June 9, gage height 7.18 ft; minimum daily 8.1 ft³/s, Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	53	296	160	30	12
2	---	---	---	---	---	---	---	47	417	146	24	13
3	---	---	---	---	---	---	---	46	440	134	21	14
4	---	---	---	---	---	---	---	57	560	123	21	13
5	---	---	---	---	---	---	---	88	648	116	28	13
6	---	---	---	---	---	---	---	110	651	111	36	12
7	---	---	---	---	---	---	---	131	718	104	29	11
8	---	---	---	---	---	---	---	148	687	98	19	11
9	---	---	---	---	---	---	---	157	689	94	20	9.7
10	---	---	---	---	---	---	---	166	592	88	36	9.4
11	---	---	---	---	---	---	---	173	572	77	29	9.6
12	---	---	---	---	---	---	---	179	526	38	27	11
13	---	---	---	---	---	---	---	180	485	29	22	9.7
14	---	---	---	---	---	---	---	185	484	26	21	9.3
15	---	---	---	---	---	---	---	195	452	27	21	9.2
16	---	---	---	---	---	---	---	208	405	27	18	11
17	---	---	---	---	---	---	e34	224	395	23	18	10
18	---	---	---	---	---	---	40	239	378	24	17	9.3
19	---	---	---	---	---	---	49	237	404	25	18	9.7
20	---	---	---	---	---	---	55	238	429	24	17	15
21	---	---	---	---	---	---	65	251	401	19	16	15
22	---	---	---	---	---	---	49	374	374	18	16	13
23	---	---	---	---	---	---	45	341	330	20	15	15
24	---	---	---	---	---	---	45	314	292	21	14	14
25	---	---	---	---	---	---	43	264	254	19	14	11
26	---	---	---	---	---	---	52	215	230	18	14	10
27	---	---	---	---	---	---	59	178	215	18	14	11
28	---	---	---	---	---	---	75	150	198	20	13	10
29	---	---	---	---	---	---	71	240	185	19	14	8.4
30	---	---	---	---	---	---	57	210	170	31	13	8.1
31	---	---	---	---	---	---	---	204	---	45	12	---
TOTAL	---	---	---	---	---	---	---	5802	12877	1742	627	337.4
MEAN	---	---	---	---	---	---	---	187	429	56.2	20.2	11.2
MAX	---	---	---	---	---	---	---	374	718	160	36	15
MIN	---	---	---	---	---	---	---	46	170	18	12	8.1
AC-FT	---	---	---	---	---	---	---	11510	25540	3460	1240	669

e-Estimated.

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February to September 1997.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)
FEB							
26...	1633	9.5	78	8.0	0.0	10.3	K4
MAR							
21...	1100	11	84	7.7	0.5	10.4	<1
APR							
08...	1445	32	77	7.5	2.0	10.4	<1
MAY							
01...	1430	57	69	7.6	3.5	10.1	<1
JUN							
17...	1122	410	27	7.6	7.0	9.1	--
JUL							
17...	1415	26	69	7.7	19.0	7.0	K6
AUG							
04...	1000	20	90	7.9	15.5	7.9	38
SEP							
09...	1030	9.8	89	7.9	11.5	7.9	K8

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)
FEB							
26...	0.4	<1	0.001	0.050	0.007	0.003	0.002
MAR							
21...	0.5	1	0.001	0.046	0.005	0.005	0.003
APR							
08...	0.6	<1	<0.001	0.024	<0.002	0.006	0.006
MAY							
01...	0.6	4	0.002	0.006	<0.002	0.012	0.006
JUN							
17...	0.2	2	0.002	0.019	<0.002	0.009	0.003
JUL							
17...	0.4	<1	0.010	0.007	0.007	0.009	0.006
AUG							
04...	0.5	1	0.001	0.010	0.006	0.014	0.014
SEP							
09...	0.4	1	<0.001	<0.005	<0.002	0.013	0.008

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 to September 1997.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)
JUN							
18...	1355	40	105	8.0	11.0	8.3	--
JUL							
17...	1100	9.4	144	7.8	13.5	7.2	--
AUG							
05...	1100	4.0	171	--	14.5	6.8	K11
SEP							
09...	1300	2.2	202	8.0	14.5	7.4	K22

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)
JUN							
18...	--	--	0.001	0.009	0.002	0.005	0.017
JUL							
17...	0.1	3	0.008	0.008	0.004	0.009	0.010
AUG							
05...	0.1	2	0.001	0.009	0.002	0.012	0.009
SEP							
09...	0.2	8	<0.001	<0.005	<0.002	0.014	0.009

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 to September 1997.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. FEET PER SECOND (00061)	SPE-CIFIC DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, 0.7 UM-MF (COLS./ 100 ML) (31625)
FEB							
26...	1037	0.74	125	8.0	0.0	10.0	K3
MAR							
21...	1500	0.63	125	7.2	0.0	10.7	K1
APR							
09...	1230	1.0	123	7.5	0.0	10.2	<1
MAY							
01...	1630	4.6	127	7.5	2.0	9.3	K1
JUN							
18...	1600	20	56	7.8	12.0	7.6	--
JUL							
17...	0930	0.99	93	8.0	10.5	6.9	230
AUG							
05...	1015	0.20	150	--	12.5	7.0	460
SEP							
09...	0830	0.30	111	7.8	9.5	7.6	72

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)
FEB							
26...	0.3	3	<0.001	0.013	0.013	0.009	0.006
MAR							
21...	0.4	<1	0.001	0.031	0.011	0.012	0.013
APR							
09...	0.4	<1	<0.001	0.055	0.007	0.006	0.007
MAY							
01...	0.5	4	0.002	0.048	<0.002	0.011	0.012
JUN							
18...	0.1	1	0.001	0.008	<0.002	0.016	0.018
JUL							
17...	<0.1	<1	0.011	0.007	0.004	0.018	0.011
AUG							
05...	0.1	1	0.001	0.012	0.006	0.025	0.020
SEP							
09...	0.1	4	0.001	<0.005	<0.002	0.034	0.027

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 to September 1997.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)
FEB							
26...	1301	2.7	293	8.4	0.0	10.2	K4
MAR							
21...	1300	5.1	258	7.6	0.0	9.9	<1
APR							
09...	1345	3.6	275	8.0	4.0	9.9	<1
MAY							
01...	1530	14	208	8.0	4.0	9.9	K1
JUN							
18...	1103	26	130	8.0	11.0	8.2	--
JUL							
17...	1300	2.1	325	7.9	15.0	7.9	21
AUG							
05...	0900	2.1	331	--	14.5	6.4	26
SEP							
09...	0930	1.6	306	8.0	11.0	7.3	34

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)
FEB							
26...	2.0	6	0.002	0.180	0.024	0.010	0.007
MAR							
21...	2.6	<1	0.003	0.160	0.021	0.034	0.033
APR							
09...	2.9	<1	<0.001	0.28	0.003	0.011	0.011
MAY							
01...	1.9	6	0.001	0.048	<0.002	0.023	0.023
JUN							
18...	0.5	6	0.001	0.015	<0.002	0.021	0.020
JUL							
17...	1.1	4	0.009	0.033	0.008	0.014	0.018
AUG							
05...	1.3	3	0.001	0.018	0.005	0.023	0.018
SEP							
09...	1.4	2	0.001	<0.005	<0.002	0.025	0.016

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 NW1/4 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e154	135	e101	e94	e96	e84	275	505	2370	1060	593	197
2	163	136	e99	e89	e88	e84	218	475	2790	1030	699	196
3	166	113	e82	e92	e90	e84	227	422	2850	945	778	199
4	180	147	e79	e88	e90	e86	301	414	3060	836	666	252
5	169	100	e66	e86	e92	e86	270	587	3960	761	606	332
6	186	115	e79	e81	e88	e90	239	781	4210	695	691	333
7	147	90	e73	e80	e85	e90	181	936	4180	523	617	333
8	e160	97	e85	e95	e85	e94	200	1070	4170	419	477	316
9	154	115	e97	e93	e86	e92	192	1080	4260	397	222	118
10	153	97	e91	e94	e89	e92	172	1150	4180	391	481	121
11	169	98	e88	e94	e89	e92	135	1210	4140	432	1050	107
12	155	102	e100	e94	e88	e94	148	1230	4000	482	1070	121
13	153	102	e98	e82	e90	e96	130	1250	3800	417	874	116
14	140	95	e93	e96	e90	e100	133	1350	2750	337	707	102
15	141	109	e86	e96	e86	e103	142	1480	2120	315	504	107
16	146	97	e84	e89	e93	e105	182	1550	2000	327	212	101
17	150	87	e79	e86	e86	e106	302	1720	2040	324	186	99
18	95	e100	e81	e92	e90	e108	387	1800	2080	303	180	98
19	127	e105	e95	e86	e87	e119	432	1870	2180	319	265	101
20	147	e107	e89	e88	e85	133	521	2140	2240	318	567	134
21	100	e90	e101	e84	e88	175	712	1990	2180	300	653	140
22	98	e130	e91	e82	e94	271	496	2550	2140	326	571	176
23	107	e172	e101	e88	e87	359	410	2760	2300	273	562	188
24	109	e130	e92	e92	e85	463	419	2490	2370	292	546	160
25	115	e110	e87	e85	e82	349	366	2170	1990	282	454	146
26	117	e133	e101	e91	e83	348	403	1850	1420	267	332	137
27	105	e92	e89	e88	e86	394	432	1630	1250	251	326	134
28	102	e95	e100	e88	e86	396	554	1560	1170	265	286	107
29	141	e155	e95	e91	---	399	660	1860	1110	258	213	90
30	110	e88	e89	e93	---	329	544	2210	1030	240	197	99
31	123	---	e92	e85	---	268	---	2100	---	322	196	---
TOTAL	4282	3342	2783	2762	2464	5689	9783	46190	80340	13707	15781	4860
MEAN	138	111	89.8	89.1	88.0	184	326	1490	2678	442	509	162
MAX	186	172	101	96	96	463	712	2760	4260	1060	1070	333
MIN	95	87	66	80	82	84	130	414	1030	240	180	90
AC-FT	8490	6630	5520	5480	4890	11280	19400	91620	159400	27190	31300	9640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1997, BY WATER YEAR (WY)

MEAN	101	104	82.5	79.0	78.5	115	312	716	1026	569	190	108
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1982 - 1997	
ANNUAL TOTAL	172866		191983			
ANNUAL MEAN	472		526		290	
HIGHEST ANNUAL MEAN					726	1984
LOWEST ANNUAL MEAN					122	1989
HIGHEST DAILY MEAN	3690	Jun 23	4260	Jun 9	4930	May 25 1984
LOWEST DAILY MEAN	e66	Dec 5	e66	Dec 5	38	Dec 20 1995
ANNUAL SEVEN-DAY MINIMUM	80	Dec 3	80	Dec 3	51	Oct 1 1981
INSTANTANEOUS PEAK FLOW			4470	Jun 9	5260	May 25 1984
INSTANTANEOUS PEAK STAGE			7.08	Jun 9	7.34	May 25 1984
ANNUAL RUNOFF (AC-FT)	342900		380800		210400	
10 PERCENT EXCEEDS	1270		1820		686	
50 PERCENT EXCEEDS	141		153		110	
90 PERCENT EXCEEDS	85		87		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 1996 TO SEPTEMBER 1997

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									
14...	1300	89	136	8.7	5.0	11.2	54	17	2.8
APR									
09...	0915	190	162	8.6	3.5	10.8	64	20	3.6
AUG									
05...	1330	577	84	--	12.0	8.9	33	10	1.7

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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									
14...	6.2	0.4	1.2	62	5.1	2.5	0.2	12	85
APR									
09...	7.5	0.4	1.6	68	7.8	3.5	0.2	13	99
AUG									
05...	3.2	0.2	0.8	37	2.6	1.0	0.1	8.1	51

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								
14...	0.12	20.4	<1	0.09	<0.2	<0.2	0.03	<0.01
APR								
09...	0.13	49.8	<1	0.12	0.2	0.2	0.04	0.03
AUG								
05...	0.07	79.5	6	0.06	<0.2	<0.2	0.03	<0.01

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									
14...	<1	<1	<1	15	<0.5	<1	<1	<1	<1
APR									
09...	<1	<1	<1	20	<0.5	<1	<1	3	<1
AUG									
05...	<1	<1	<1	12	<0.5	<1	<1	<1	<1

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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								
14...	<1	<1	110	<1	<1	32	<0.1	<0.1
APR								
09...	<1	<1	130	<1	<1	58	<0.1	0.1
AUG								
05...	<1	<1	78	<1	<1	19	<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								
14...	<1	<1	<1	<1	<1	<1	<10	<3
APR								
09...	5	<1	<1	<1	<1	<1	<10	<3
AUG								
05...	<1	<1	<1	<1	<1	<1	<10	<3

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 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	e2.5	e1.3	e.91	e.82	e.80	e.80	e1.1	44	61	23	5.4
2	4.6	e2.4	e1.3	e.93	e.81	e.80	e.80	e1.1	55	56	21	6.2
3	5.4	e2.5	e1.2	e.95	e.78	e.80	e.78	e1.1	68	53	21	7.2
4	5.2	e2.5	e1.2	e.91	e.79	e.80	e.79	e1.3	82	50	21	5.7
5	4.7	e2.5	e1.3	e.86	e.79	e.80	e.81	e1.7	90	47	23	5.3
6	4.3	e2.3	e1.3	e.80	e.79	e.82	e.85	e2.2	80	44	23	5.2
7	4.1	e2.2	e1.3	e.76	e.78	e.82	e.89	e2.8	91	42	20	4.9
8	3.9	e2.1	e1.3	e.80	e.78	e.81	e.91	e3.8	91	41	18	4.6
9	3.7	e2.2	e1.2	e.84	e.77	e.80	e.88	4.5	84	39	18	4.4
10	3.6	e2.3	e1.3	e.88	e.77	e.81	e.84	e5.2	77	38	19	4.1
11	3.5	e2.3	e1.3	e.89	e.78	e.82	e.82	e6.0	77	36	17	4.2
12	3.4	e2.2	e1.3	e.90	e.80	e.83	e.81	5.8	80	35	15	4.1
13	3.3	e2.2	e1.3	e.90	e.80	e.84	e.82	6.2	83	35	13	3.8
14	3.2	e2.3	e1.2	e.88	e.80	e.84	e.82	9.1	89	35	13	3.6
15	3.2	e2.3	e1.0	e.84	e.80	e.80	e.83	e15	86	35	11	4.3
16	e3.2	e2.1	e.95	e.82	e.82	e.83	e.84	e19	82	34	11	5.1
17	e3.1	e2.1	e.78	e.76	e.84	e.83	e.88	24	91	34	11	3.8
18	e3.3	e2.1	e.79	e.78	e.86	e.82	e.92	27	97	32	11	3.8
19	e3.5	e2.2	e.80	e.82	e.80	e.80	e.94	29	128	34	11	3.9
20	3.6	e2.2	e.81	e.84	e.77	e.81	e.96	28	129	31	9.0	7.5
21	3.3	e2.0	e.82	e.85	e.76	e.82	e1.0	28	119	29	8.3	6.1
22	3.3	e1.9	e.82	e.86	e.74	e.81	e.94	28	120	28	7.8	7.0
23	e3.2	e1.8	e.83	e.86	e.75	e.81	e.92	23	101	28	7.1	6.5
24	e3.2	e1.6	e.85	e.85	e.77	e.80	e.92	24	91	27	7.0	5.9
25	e3.1	e1.5	e.90	e.85	e.78	e.80	e.91	22	84	26	7.3	5.7
26	e3.1	e1.4	e.91	e.84	e.78	e.80	e.96	19	79	24	7.0	6.2
27	e2.9	e1.3	e.95	e.82	e.81	e.80	e.98	16	75	24	6.6	6.1
28	e2.9	e1.4	e.96	e.83	e.81	e.80	e1.0	14	67	24	6.4	5.6
29	e2.8	e1.4	e.94	e.85	---	e.79	e1.1	14	66	23	6.0	5.4
30	e2.7	e1.3	e.91	e.84	---	e.79	e1.1	18	67	23	5.9	5.2
31	e2.5	---	e.90	e.84	---	e.80	---	28	---	25	5.6	---
TOTAL	110.5	61.1	32.72	26.36	22.15	25.10	26.82	427.9	2573	1093	404.0	156.8
MEAN	3.56	2.04	1.06	.85	.79	.81	.89	13.8	85.8	35.3	13.0	5.23
MAX	5.4	2.5	1.3	.95	.86	.84	1.1	29	129	61	23	7.5
MIN	2.5	1.3	.78	.76	.74	.79	.78	1.1	44	23	5.6	3.6
AC-FT	219	121	65	52	44	50	53	849	5100	2170	801	311

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1997, BY WATER YEAR (WY)

MEAN	2.97	1.71	1.09	.87	.78	.77	1.44	14.5	57.9	30.8	9.65	4.62
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1966 - 1997	
ANNUAL TOTAL	4947.19		4959.45			
ANNUAL MEAN	13.5		13.6		10.6	
HIGHEST ANNUAL MEAN					15.5	1984
LOWEST ANNUAL MEAN					6.28	1977
HIGHEST DAILY MEAN	136	Jun 22	129	Jun 20	146	Jun 25 1983
LOWEST DAILY MEAN	e.74	Feb 3	e.74	Feb 22	.44	Feb 11 1972
ANNUAL SEVEN-DAY MINIMUM	.80	Mar 23	.76	Feb 20	.46	Feb 11 1972
INSTANTANEOUS PEAK FLOW			188	Jun 19	290	Jun 28 1988
INSTANTANEOUS PEAK STAGE			4.91	Jun 19	a5.19	Jun 28 1988
ANNUAL RUNOFF (AC-FT)	9810		9840		7680	
10 PERCENT EXCEEDS	53		43		34	
50 PERCENT EXCEEDS	2.5		2.4		2.0	
90 PERCENT EXCEEDS	.84		.80		.70	

e-Estimated.
a-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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	e7.2	e5.5	e3.9	e3.3	e2.6	e3.4	5.2	135	170	17	16
2	9.2	e7.3	e5.6	e3.9	e3.2	e2.6	e3.2	e4.6	153	158	2.8	18
3	10	e7.1	e5.2	e3.9	e3.1	e2.7	e3.1	4.8	175	148	2.5	23
4	9.7	e7.3	e5.6	e3.8	e3.0	e2.8	e3.1	6.1	190	139	29	17
5	9.0	e7.5	e5.7	e3.7	e3.0	e2.9	e3.2	10	169	130	53	16
6	8.6	e6.8	e5.6	e3.4	e3.0	e2.9	e3.3	13	156	119	52	16
7	8.3	e6.3	e5.3	e3.1	e2.9	e2.9	e3.5	16	170	113	46	15
8	8.1	e6.5	e5.2	e3.4	e2.7	e2.9	e4.1	21	177	109	42	14
9	7.9	e6.9	e5.1	e3.6	e2.7	e2.9	e4.0	28	164	88	40	14
10	7.3	e7.2	e5.0	e3.6	e2.6	e2.9	e3.9	34	161	55	45	13
11	4.1	e7.4	e4.8	e3.6	e2.7	e3.0	e3.8	37	168	37	40	13
12	3.9	e7.6	e4.9	e3.6	e2.7	e3.0	e3.7	33	171	5.5	36	13
13	3.8	e7.7	e5.0	e3.5	e2.7	e3.1	e3.8	37	171	4.9	34	12
14	3.8	e7.8	e4.9	e3.6	e2.7	e3.1	e4.0	44	179	24	34	12
15	3.7	e7.8	e4.5	e3.4	e2.7	e3.1	e3.9	50	182	30	29	13
16	3.4	e7.3	e3.8	e3.3	e2.6	e3.1	e4.0	65	175	4.2	28	16
17	6.2	e6.8	e3.5	e3.2	e2.5	e3.2	e4.4	77	186	4.1	28	13
18	e7.4	e7.1	e3.8	e3.3	e2.5	e3.2	e4.5	86	209	23	28	12
19	e6.9	e7.5	e3.9	e3.4	e2.6	e3.2	e5.0	78	282	9.1	27	12
20	e7.1	e8.0	e4.0	e3.5	e2.6	e3.2	e5.6	65	314	4.9	25	20
21	e7.4	e7.8	e3.9	e3.5	e2.6	e3.1	e6.0	71	316	27	23	14
22	e7.9	e7.5	e3.9	e3.5	e2.6	e3.0	e5.6	86	308	19	22	16
23	e8.4	e7.2	e3.9	e3.5	e2.4	e3.1	e5.2	89	274	3.7	20	15
24	e8.4	e6.9	e3.9	e3.6	e2.5	e3.2	e5.2	89	247	3.2	19	14
25	e8.5	e6.6	e4.0	e3.7	e2.6	e3.3	e5.3	84	222	2.8	21	13
26	e8.2	e6.3	e4.0	e3.6	e2.6	e3.3	e5.4	71	210	2.6	20	13
27	e7.9	e5.9	e4.2	e3.4	e2.6	e3.2	e5.5	60	195	2.5	18	14
28	e8.0	e5.4	e4.0	e3.4	e2.6	e3.3	e5.4	53	185	19	18	12
29	e7.1	e5.8	e3.9	e3.4	---	e3.4	e5.4	60	182	2.7	17	11
30	e7.2	e5.5	e3.9	e3.4	---	e3.2	e5.3	72	180	2.6	17	11
31	e7.2	---	e3.9	e3.4	---	e3.2	---	98	---	2.9	16	---
TOTAL	224.1	210.0	140.4	109.1	76.3	94.6	131.8	1547.7	6006	1463.7	849.3	431
MEAN	7.23	7.00	4.53	3.52	2.73	3.05	4.39	49.9	200	47.2	27.4	14.4
MAX	10	8.0	5.7	3.9	3.3	3.4	6.0	98	316	170	53	23
MIN	3.4	5.4	3.5	3.1	2.4	2.6	3.1	4.6	135	2.5	2.5	11
AC-FT	445	417	278	216	151	188	261	3070	11910	2900	1680	855

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1997, BY WATER YEAR (WY)

MEAN	5.44	3.47	2.38	1.98	1.90	1.95	3.78	31.4	118	59.7	12.5	7.31
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1934 - 1997	
ANNUAL TOTAL	11567.9		11284.0			
ANNUAL MEAN	31.6		30.9		[a]26.8	
HIGHEST ANNUAL MEAN					39.0	1995
LOWEST ANNUAL MEAN					4.11	1976
HIGHEST DAILY MEAN	358	Jun 22	316	Jun 21	395	Jul 12 1995
LOWEST DAILY MEAN	[e,b]2.7	Feb 3	[e]2.4	Feb 23	.20	Mar 6 1967
ANNUAL SEVEN-DAY MINIMUM	2.8	Mar 15	2.5	Feb 17	.27	Feb 13 1971
INSTANTANEOUS PEAK FLOW			410	Jun 20	[c]516	Jul 11 1995
INSTANTANEOUS PEAK STAGE			5.08	Jun 20	[d]5.64	Jul 11 1995
ANNUAL RUNOFF (AC-FT)	22940		22380		[a]19420	
10 PERCENT EXCEEDS	117		115		69	
50 PERCENT EXCEEDS	6.2		6.3		3.5	
90 PERCENT EXCEEDS	3.1		2.9		.60	

e-Estimated.
a-Includes diversions to August P. Gumlick Tunnel.
b-Also occurred Feb 4, 27, and Mar 18-20.
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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	e16	e14	e14	e11	e9.0	e13	e21	e200	288	45	30
2	25	e16	e16	e14	e11	e9.0	e13	e20	e240	260	32	30
3	28	e16	e18	e14	e11	e8.5	e13	e20	e290	244	29	49
4	28	e16	e17	e14	e11	e8.5	e13	e22	e350	228	44	42
5	25	e16	e15	e14	e11	e8.5	e13	e23	e370	214	76	37
6	23	e15	e14	e14	e11	e8.5	e13	e25	e360	193	75	36
7	22	e13	e15	e14	e11	e8.5	e14	e30	e350	175	67	36
8	20	e15	e15	e13	e10	e8.5	e15	e38	e360	168	61	33
9	20	e16	e15	e13	e10	e8.5	e16	e47	e350	150	58	31
10	19	e15	e15	e13	e10	e8.5	e16	e60	360	115	67	30
11	15	e15	e15	e13	e10	e8.4	e16	e70	369	103	61	30
12	14	e16	e14	e13	e10	e8.5	e15	e76	369	68	56	31
13	14	e16	e14	e13	e10	e8.7	e14	e82	370	62	51	29
14	14	e16	e14	e13	e10	e9.0	e14	e86	377	76	52	28
15	13	e16	e14	e13	e10	e9.0	e15	e90	375	78	47	29
16	14	e15	e15	e13	e9.5	e9.2	e16	e105	359	52	43	36
17	15	e16	e15	e12	e9.5	e9.4	e17	e120	370	50	44	30
18	20	e17	e15	e12	e9.5	e9.6	e18	e130	400	68	44	30
19	19	e17	e14	e12	e9.0	e9.8	e19	e150	486	53	44	29
20	e20	e17	e14	e12	e9.0	e10	e20	e170	533	48	42	43
21	e19	e16	e15	e12	e9.0	e10	e21	e175	511	64	38	34
22	e18	e17	e14	e12	e9.0	e10	e20	e180	519	54	38	38
23	e19	e16	e14	e12	e9.0	e10	e18	e190	485	43	35	36
24	e20	e15	e14	e11	e9.0	e10	15	e205	459	40	34	30
25	e20	e15	e14	e11	e9.0	e11	15	e200	408	37	39	e30
26	e19	e15	e14	e11	e9.0	e12	15	e180	385	36	37	e29
27	e19	e15	e14	e11	e9.0	e12	e18	e160	360	36	34	e30
28	e18	e13	e14	e11	e9.0	e12	e22	e150	336	49	32	e31
29	e18	e14	e14	e11	---	e12	e23	e140	321	36	30	e28
30	e17	e14	e14	e11	---	e13	e22	e150	314	37	30	e26
31	e17	---	e14	e11	---	e13	---	e175	---	38	30	---
TOTAL	599	465	453	387	275.5	302.6	492	3290	11336	3163	1415	981
MEAN	19.3	15.5	14.6	12.5	9.84	9.76	16.4	106	378	102	45.6	32.7
MAX	28	17	18	14	11	13	23	205	533	288	76	49
MIN	13	13	14	11	9.0	8.4	13	20	200	36	29	26
AC-FT	1190	922	899	768	546	600	976	6530	22480	6270	2810	1950

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1997, BY WATER YEAR (WY)

MEAN	12.4	9.20	7.68	6.49	5.90	6.42	11.3	59.7	207	110	27.9	16.5
MAX	33.5	20.3	15.5	13.4	13.6	17.9	26.0	155	378	320	75.5	40.9
(WY)	1996	1996	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1966 - 1997	
ANNUAL TOTAL	22423		23159.1			
ANNUAL MEAN	61.3		63.4		40.0	
HIGHEST ANNUAL MEAN					71.3	1984
LOWEST ANNUAL MEAN					17.6	1976
HIGHEST DAILY MEAN	498	Jun 22	533	Jun 20	555	Jul 12 1995
LOWEST DAILY MEAN	e12	Feb 1	e8.4	Mar 11	2.7	Apr 5 1977
ANNUAL SEVEN-DAY MINIMUM	13	Jan 26	8.5	Mar 5	2.8	Mar 31 1977
INSTANTANEOUS PEAK FLOW			681	Jun 20	751	Jun 17 1995
INSTANTANEOUS PEAK STAGE			6.67	Jun 20	a6.94	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	44480		45940		29010	
10 PERCENT EXCEEDS	223		200		119	
50 PERCENT EXCEEDS	20		18		11	
90 PERCENT EXCEEDS	14		10		4.9	

e-Estimated.
a-Maximum gage height, 7.12 ft, Jun 24, 1971, site and datum then in use.

09035800 DARLING CREEK NEAR LEAL, CO

LOCATION.--Lat 39°48'02", long 106°01'33", in SW1/4SW1/4 sec.16, 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.--Not determined.

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 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	e4.2	e3.4	e2.8	e2.5	e2.2	e2.6	3.1	68	49	13	5.6
2	6.9	e4.1	e3.5	e2.8	e2.5	e2.3	e2.6	e3.1	85	45	11	5.4
3	7.7	e4.0	e3.7	e2.7	e2.5	e2.2	e2.6	3.1	88	41	11	5.8
4	7.1	e3.9	e3.6	e2.7	e2.5	e2.2	e2.7	3.6	81	38	11	5.3
5	6.4	e3.8	e3.5	e2.7	e2.5	e2.2	e2.7	5.5	81	36	12	5.0
6	5.6	e3.7	e3.5	e2.7	e2.5	e2.2	e2.7	7.8	78	34	11	4.9
7	5.0	e3.6	e3.4	e2.7	e2.5	e2.2	e2.7	9.5	78	31	10	4.9
8	4.7	e3.5	e3.4	e2.7	e2.5	e2.2	e2.8	10	81	30	9.3	4.6
9	4.5	e3.7	e3.4	e2.7	e2.4	e2.2	e2.7	12	79	28	9.5	4.4
10	4.4	e3.9	e3.4	e2.7	e2.4	e2.2	e2.7	14	74	26	12	4.3
11	4.3	e3.9	e3.4	e2.7	e2.3	e2.1	e2.8	15	72	25	10	4.7
12	4.1	e3.9	e3.4	e2.6	e2.4	e2.2	e2.8	15	68	23	9.7	5.0
13	3.9	e3.8	e3.3	e2.6	e2.4	e2.3	e2.8	16	66	22	9.1	4.6
14	4.0	e3.9	e3.3	e2.6	e2.4	e2.3	e2.7	19	66	21	9.5	4.5
15	3.8	e3.8	e3.3	e2.6	e2.4	e2.3	e2.7	24	65	20	8.3	4.7
16	3.7	e3.6	e3.4	e2.6	e2.4	e2.3	e2.6	30	61	19	7.9	5.3
17	3.8	e3.8	e3.5	e2.6	e2.3	e2.3	e2.6	35	64	19	7.8	4.5
18	4.7	e3.9	e3.4	e2.5	e2.3	e2.3	e2.6	36	73	20	8.3	4.6
19	4.6	e3.8	e3.3	e2.5	e2.3	e2.3	2.5	40	94	18	8.2	4.6
20	e4.3	e3.7	e3.3	e2.5	e2.3	e2.3	2.2	39	99	17	7.9	7.2
21	e4.2	e3.6	e3.3	e2.5	e2.2	e2.4	e2.3	41	97	16	7.3	5.5
22	e4.2	e3.7	e3.2	e2.5	e2.2	e2.4	e2.2	50	100	15	7.0	6.5
23	e4.1	e3.8	e3.2	e2.5	e2.2	e2.4	e2.2	48	83	16	6.5	5.9
24	e4.2	e3.6	e3.1	e2.4	e2.2	e2.5	2.2	45	74	15	6.3	5.3
25	e4.1	e3.7	e3.1	e2.5	e2.2	e2.5	2.7	42	70	14	7.7	4.9
26	e4.0	e3.7	e3.0	e2.5	e2.2	e2.5	3.0	38	65	13	7.0	5.0
27	e3.9	e3.6	e3.1	e2.5	e2.2	e2.5	3.1	32	62	13	6.3	5.0
28	4.1	e3.5	e3.0	e2.5	e2.2	e2.5	3.5	29	58	13	6.2	4.6
29	e3.9	e3.4	e2.9	e2.5	---	e2.6	3.4	35	55	12	5.8	4.6
30	e4.0	e3.4	e2.8	e2.5	---	e2.6	3.2	39	52	15	5.6	4.5
31	e4.3	---	e2.8	e2.5	---	e2.6	---	48	---	16	5.6	---
TOTAL	145.8	112.5	101.9	80.4	65.9	72.3	80.9	787.7	2237	720	267.8	151.7
MEAN	4.70	3.75	3.29	2.59	2.35	2.33	2.70	25.4	74.6	23.2	8.64	5.06
MAX	7.7	4.2	3.7	2.8	2.5	2.6	3.5	50	100	49	13	7.2
MIN	3.7	3.4	2.8	2.4	2.2	2.1	2.2	3.1	52	12	5.6	4.3
AC-FT	289	223	202	159	131	143	160	1560	4440	1430	531	301

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1997, BY WATER YEAR (WY)

MEAN	4.06	3.12	2.55	2.15	1.96	1.97	2.83	14.8	48.7	22.7	7.37	4.71
MAX	7.86	5.52	4.33	3.00	3.00	2.90	6.03	28.6	85.1	91.6	20.2	9.64
(WY)	1985	1985	1985	1985	1985	1985	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1966 - 1997	
ANNUAL TOTAL	4278.6		4823.9			
ANNUAL MEAN	11.7		13.2		9.75	
HIGHEST ANNUAL MEAN					18.1	1983
LOWEST ANNUAL MEAN					5.64	1977
HIGHEST DAILY MEAN	74	Jun 22	100	Jun 22	175	Jun 25 1983
LOWEST DAILY MEAN	e2.0	Mar 24	e2.1	Mar 11	1.0	Jan 12 1975
ANNUAL SEVEN-DAY MINIMUM	2.1	Mar 18	2.2	Mar 5	1.1	Feb 24 1975
INSTANTANEOUS PEAK FLOW			149	Jun 19	a241	Jun 30 1984
INSTANTANEOUS PEAK STAGE			5.44	Jun 19	b4.30	Jun 30 1984
ANNUAL RUNOFF (AC-FT)	8490		9570		7060	
10 PERCENT EXCEEDS	42		43		27	
50 PERCENT EXCEEDS	3.8		3.9		3.4	
90 PERCENT EXCEEDS	2.2		2.3		1.8	

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 NE1/4 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	e16	e14	e11	e9.5	e9.5	e14	13	164	170	47	23
2	18	e16	e14	e11	e9.5	e9.5	e14	15	190	157	43	e22
3	19	e16	e15	e10	e9.5	e9.5	e15	12	214	144	41	e23
4	20	e16	e14	e10	e9.5	e9.5	e16	13	252	135	41	e24
5	19	e15	e13	e10	e9.5	e9.5	e17	18	288	125	45	e22
6	18	e14	e13	e10	e9.5	e9.5	e18	23	279	116	44	e20
7	17	e14	e13	e10	e9.5	e9.5	e19	27	270	108	40	e19
8	17	e15	e13	e10	e9.5	e9.5	e20	33	265	105	37	e19
9	17	e15	e13	e10	e9.5	e9.5	e19	40	244	98	36	e18
10	17	e15	e13	e10	e9.5	e9.5	e18	47	224	94	40	e17
11	16	e14	e13	e10	e9.5	e9.4	e17	50	228	89	38	e17
12	16	e14	e13	e10	e9.5	e10	e16	48	226	85	36	e18
13	16	e15	e12	e10	e9.5	e10	e15	54	223	82	35	e17
14	16	e16	e12	e10	e9.5	e10	e14	63	224	78	35	e17
15	16	e15	e12	e10	e9.5	e10	e13	70	223	75	32	e17
16	16	e14	e13	e10	e9.5	e10	e12	84	215	72	31	e18
17	15	e15	e13	e10	e9.5	e10	e13	100	229	69	31	e17
18	16	e15	e13	e9.5	e9.5	e11	13	111	248	76	31	e17
19	16	e15	e12	e9.5	e9.5	e11	13	119	297	71	30	e19
20	17	e15	e12	e9.5	e9.5	e11	14	124	343	66	29	e21
21	18	e15	e12	e9.5	e9.5	e11	15	123	336	61	27	e20
22	18	e15	e12	e9.5	e9.5	e11	14	132	320	58	27	e20
23	18	e15	e12	e9.5	e9.5	e11	13	124	285	58	25	e20
24	18	e14	e11	e9.5	e9.5	e12	13	123	254	56	24	e19
25	17	e14	e12	e9.5	e9.5	e12	13	118	232	52	26	e18
26	16	e15	e12	e9.5	e9.5	e12	13	106	221	50	27	16
27	15	e14	e12	e9.5	e9.5	e12	13	93	211	50	25	17
28	e16	e14	e12	e9.5	e9.5	e13	14	85	195	51	24	16
29	e16	e14	e11	e9.5	---	e13	14	99	185	50	23	15
30	e16	e14	e11	e9.5	---	e14	14	109	178	50	23	e15
31	e16	---	e11	e9.5	---	e14	---	130	---	52	23	---
TOTAL	525	444	388	305.0	266.0	332.4	446	2306	7263	2603	1016	561
MEAN	16.9	14.8	12.5	9.84	9.50	10.7	14.9	74.4	242	84.0	32.8	18.7
MAX	20	16	15	11	9.5	14	20	132	343	170	47	24
MIN	15	14	11	9.5	9.5	9.4	12	12	164	50	23	15
AC-FT	1040	881	770	605	528	659	885	4570	14410	5160	2020	1110

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1997, BY WATER YEAR (WY)

MEAN	13.6	10.8	9.16	7.56	7.18	7.27	11.5	57.1	162	74.9	26.5	16.8
MAX	24.0	15.6	21.1	11.0	11.4	11.5	25.0	118	243	215	63.3	32.3
(WY)	1985	1985	1986	1996	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1966 - 1997	
ANNUAL TOTAL	17767		16455.4			
ANNUAL MEAN	48.5		45.1		33.7	
HIGHEST ANNUAL MEAN					54.8	1984
LOWEST ANNUAL MEAN					20.2	1977
HIGHEST DAILY MEAN	316	Jun 22	343	Jun 20	404	Jun 17 1995
LOWEST DAILY MEAN	e10	Feb 6	e9.4	Mar 11	2.6	Mar 6 1967
ANNUAL SEVEN-DAY MINIMUM	11	Jan 31	9.5	Mar 5	2.8	Feb 28 1967
INSTANTANEOUS PEAK FLOW			453	Jun 20	a574	Jun 17 1995
INSTANTANEOUS PEAK STAGE			3.97	Jun 20	b4.17	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	35240		32640		24400	
10 PERCENT EXCEEDS	171		127		98	
50 PERCENT EXCEEDS	16		16		12	
90 PERCENT EXCEEDS	11		9.5		6.4	

e-Estimated.
a-From rating curve extended above 256 ft^3/s.
b-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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	e42	36	29	e24	e23	e26	48	552	553	137	83
2	66	e40	e35	30	e24	e23	e27	44	653	504	118	72
3	70	e41	e35	31	e24	e23	e26	43	736	479	109	89
4	71	e40	35	e29	e24	e23	e27	49	791	450	118	75
5	65	e36	35	e29	e24	e22	e28	66	878	424	161	70
6	59	e34	35	e29	e24	e23	e27	86	854	395	161	68
7	56	32	36	e28	e24	e23	e27	107	825	372	144	68
8	53	e35	36	30	e24	e24	e26	119	849	360	131	65
9	52	e35	36	29	e24	e24	31	138	825	333	127	63
10	51	e36	36	29	e23	e24	29	159	769	279	147	61
11	47	e36	36	29	e23	e24	28	171	779	261	135	62
12	45	e37	36	e29	e24	e24	28	165	763	216	127	64
13	44	e38	35	29	e24	24	e26	171	756	206	119	60
14	44	e39	32	29	e24	23	e26	194	757	215	120	59
15	45	42	31	30	e24	24	28	214	755	213	110	60
16	47	39	33	e29	e24	24	29	259	735	186	105	72
17	46	39	e34	e27	e23	e24	36	303	749	177	107	64
18	e45	43	35	25	e23	e24	42	343	788	202	108	62
19	e45	44	34	25	e23	e24	43	354	922	186	109	60
20	e45	43	34	25	e23	e24	48	345	1030	170	106	84
21	e43	e39	33	25	e23	e25	54	364	1010	175	99	70
22	e43	e40	33	24	e23	e26	45	459	970	165	100	77
23	e44	42	33	24	e23	e26	43	441	883	153	94	74
24	e44	39	32	24	e23	e26	43	419	785	149	89	68
25	e45	e36	32	24	e23	e26	42	409	724	139	99	64
26	e45	e35	32	25	e23	e25	46	365	697	131	102	63
27	e46	e32	e32	e24	e23	e25	46	318	670	130	94	66
28	e48	e33	e29	e24	e23	e24	53	286	634	144	91	60
29	e47	e33	28	e24	---	e27	53	353	605	132	88	58
30	e42	35	29	e24	---	e25	50	376	589	135	86	57
31	e42	---	29	e24	---	e25	---	430	---	147	86	---
TOTAL	1556	1135	1037	836	658	751	1083	7598	23333	7781	3527	2018
MEAN	50.2	37.8	33.5	27.0	23.5	24.2	36.1	245	778	251	114	67.3
MAX	71	44	36	31	24	27	54	459	1030	553	161	89
MIN	42	32	28	24	23	22	26	43	552	130	86	57
AC-FT	3090	2250	2060	1660	1310	1490	2150	15070	46280	15430	7000	4000
a	0	0	0	0	0	0	0	161	0	2398	268	0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1997, BY WATER YEAR (WY)

MEAN	38.3	29.8	24.1	20.8	19.2	19.2	36.4	178	490	220	71.2	44.5
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1934 - 1997	
ANNUAL TOTAL	54259		51313			
ANNUAL MEAN	148		b145		b106	
HIGHEST ANNUAL MEAN					c176	1984
LOWEST ANNUAL MEAN					45.4	1954
HIGHEST DAILY MEAN	1060	Jun 22	1030	Jun 20	1430	Jun 21 1938
LOWEST DAILY MEAN	e20	Mar 4	e22	Mar 5	d13	Dec 28 1939
ANNUAL SEVEN-DAY MINIMUM	21	Feb 29	23	Feb 27	14	Dec 23 1939
INSTANTANEOUS PEAK FLOW			1190	Jun 20	1720	Jun 10 1952
INSTANTANEOUS PEAK STAGE			3.92	Jun 20	f4.23	Jun 10 1952
ANNUAL RUNOFF (AC-FT)	107600		b105100		b76800	
10 PERCENT EXCEEDS	530		434		277	
50 PERCENT EXCEEDS	45		44		33	
90 PERCENT EXCEEDS	23		24		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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	70	e40	e38	e36	e40	e50	118	e900	e520	e120	e82
2	86	60	e40	e38	e37	e41	e50	100	e1000	e470	e115	e80
3	89	71	e43	e39	e36	e41	e50	96	e1100	e440	e110	e83
4	95	71	e49	e40	e36	e42	e50	108	e1200	e400	e120	82
5	87	e48	e45	e40	e36	e42	e49	167	e1180	e385	e150	74
6	80	e46	e39	e40	e36	e42	e50	e200	e1120	e360	e170	70
7	77	e44	e38	e40	e36	e43	e50	e240	e1100	e350	e150	72
8	76	e40	e38	e41	e36	e43	e50	e280	e1100	e330	e135	67
9	76	e42	e39	e41	e36	e43	56	e320	e1050	310	e130	63
10	74	e44	e39	e41	e35	e43	55	e350	e980	256	e140	61
11	70	e44	e39	e41	e35	e44	53	e380	e940	234	e135	63
12	66	e43	e39	e41	e35	e44	55	e360	e900	183	e130	68
13	64	e43	e39	e40	e36	e46	51	e395	e900	157	e120	61
14	64	e44	e37	e40	e36	e46	49	e430	e880	145	e120	60
15	63	e44	e37	e40	e37	e47	53	e320	e850	141	e115	59
16	64	e44	e36	e40	e37	e46	54	e400	e820	131	e108	72
17	62	e44	e38	e40	e38	e46	68	e530	e850	125	e90	68
18	61	e44	e41	e39	e38	e46	86	e580	e900	134	e100	64
19	82	e45	e41	e38	e38	e46	94	e600	e1050	132	e109	65
20	81	e46	e41	e37	e38	e46	107	e560	e1110	124	e109	97
21	74	e45	e41	e37	e38	e46	132	e660	e1090	127	e101	84
22	75	e44	e41	e37	e39	e46	103	e900	e1010	e130	e100	82
23	79	e44	e41	e37	e39	e46	98	e820	e930	e125	e100	86
24	73	e44	e40	e37	e39	e46	99	e740	e880	e120	e96	76
25	71	e43	e40	e37	e40	e46	92	e700	e800	e118	e98	69
26	69	e43	e40	e36	e40	e46	104	e600	e730	e115	e101	66
27	68	e43	e39	e36	e40	e48	106	e520	e700	e115	e98	73
28	69	e42	e39	e35	e39	e49	136	e500	e650	e128	e92	66
29	72	e41	e38	e34	---	e50	151	e600	e600	e120	e90	65
30	64	e40	e38	e35	---	e50	127	e700	e560	e122	e88	62
31	65	---	e37	e36	---	e50	---	e770	---	e130	e85	---
TOTAL	2287	1406	1232	1191	1042	1400	2328	14044	27880	6677	3525	2140
MEAN	73.8	46.9	39.7	38.4	37.2	45.2	77.6	453	929	215	114	71.3
MAX	95	71	49	41	40	50	151	900	1200	520	170	97
MIN	61	40	36	34	35	40	49	96	560	115	85	59
AC-FT	4540	2790	2440	2360	2070	2780	4620	27860	55300	13240	6990	4240
a	0	0	0	0	0	0	0	161	0	2398	268	0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 1997, BY WATER YEAR (WY)

MEAN	60.7	51.2	42.1	37.0	35.1	39.6	80.6	272	568	222	89.1	63.9
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1905 - 1997	
ANNUAL TOTAL	60408		65152			
ANNUAL MEAN	165		b182		b135	
HIGHEST ANNUAL MEAN					c248	1984
LOWEST ANNUAL MEAN					c38.8	1963
HIGHEST DAILY MEAN	1120	May 19	e1200	Jun 4	2520	Jun 14 1918
LOWEST DAILY MEAN	15	Sep 11	e34	Jan 29	d4.8	May 6 1972
ANNUAL SEVEN-DAY MINIMUM	18	Aug 30	35	Jan 26	5.1	May 6 1972
INSTANTANEOUS PEAK FLOW			Not Determined		f2620	Jun 14 1918
INSTANTANEOUS PEAK STAGE			Not Determined		6.05	Jun 14 1918
ANNUAL RUNOFF (AC-FT)	119800		b131900		b97810	
10 PERCENT EXCEEDS	641		600		350	
50 PERCENT EXCEEDS	43		66		53	
90 PERCENT EXCEEDS	23		38		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 May 8-10, 1972.
f-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, 96,840 acre-ft, June 27, elevation, 7,811.01 ft; minimum, 60,330 acre-ft, April 16, elevation, 7,784.15 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	7,802.15	83,340	-
Oct. 31	7,798.24	77,900	-5,440
Nov. 30	7,794.71	73,200	-4,700
Dec. 31	7,792.72	70,630	-2,570
CAL YR 1996	-	-	-11,430
Jan. 31	7,790.07	67,310	-3,320
Feb. 28	7,787.17	63,810	-3,500
Mar. 31	7,785.02	61,320	-2,490
Apr. 30	7,784.78	61,040	-280
May 31	7,799.46	79,570	+18,530
June 30	7,810.54	96,080	+16,510
July 31	7,809.53	94,460	-1,620
Aug. 31	7,807.70	91,590	-2,870
Sept. 30	7,806.71	90,070	-1,520
WTR YR 1997	-	-	+6,730

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	108	176	108	108	109	109	114	236	615	166	164
2	168	108	102	108	109	109	109	111	302	496	166	164
3	167	108	50	107	109	109	109	112	411	494	166	123
4	167	108	55	105	109	109	109	113	459	493	163	102
5	167	108	65	105	109	109	109	113	470	474	165	102
6	167	108	64	110	109	109	109	113	479	433	166	101
7	167	106	64	108	109	109	109	161	481	340	167	100
8	201	140	64	110	109	109	110	186	481	298	168	100
9	235	172	81	110	112	109	111	186	392	324	166	100
10	222	174	103	107	114	109	111	186	498	330	166	100
11	234	173	106	107	115	109	111	185	563	330	166	100
12	234	172	106	107	113	109	112	212	668	261	166	102
13	235	174	107	107	109	109	113	252	693	224	166	104
14	236	174	108	108	109	109	113	251	701	223	166	104
15	192	152	106	108	109	109	113	241	708	224	166	103
16	169	108	106	107	109	109	113	231	713	225	166	101
17	170	108	106	108	109	109	113	251	718	225	166	102
18	170	108	107	109	111	109	113	248	719	225	166	104
19	170	129	109	110	110	110	113	248	767	225	166	104
20	170	174	109	111	109	109	114	248	874	225	165	104
21	170	175	106	110	109	109	115	247	1000	227	163	103
22	170	174	106	108	109	109	114	245	1060	229	163	103
23	172	173	106	108	108	109	113	244	1050	229	164	103
24	138	174	106	108	108	109	114	241	986	214	164	103
25	106	174	106	109	108	106	112	241	868	165	164	104
26	106	174	106	109	109	109	111	241	696	166	164	104
27	109	175	107	109	109	112	113	241	681	166	164	104
28	107	176	107	109	108	109	113	235	737	166	163	104
29	106	175	108	108	---	109	114	186	772	165	164	104
30	107	174	108	109	---	109	115	234	773	164	164	105
31	108	---	108	109	---	109	---	234	---	166	164	---
TOTAL	5207	4456	3068	3356	3068	3380	3357	6351	19956	8741	5119	3221
MEAN	168	149	99.0	108	110	109	112	205	665	282	165	107
MAX	236	176	176	111	115	112	115	252	1060	615	168	164
MIN	106	106	50	105	108	106	109	111	236	164	163	100
AC-FT	10330	8840	6090	6660	6090	6700	6660	12600	39580	17340	10150	6390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1997, BY WATER YEAR (WY)

MEAN	129	134	105	104	90.7	93.3	76.2	118	211	173	154	155
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1949 - 1997	
ANNUAL TOTAL	74973		69280			
ANNUAL MEAN	205		[a]199		[a]131	
HIGHEST ANNUAL MEAN					254	1984
LOWEST ANNUAL MEAN					39.1	1959
HIGHEST DAILY MEAN	1160	Jun 23	1060	Jun 22	1860	Jun 28 1983
LOWEST DAILY MEAN	50	Dec 3	50	Dec 3	[b].30	May 14 1963
ANNUAL SEVEN-DAY MINIMUM	63	Dec 3	63	Dec 3	.54	Apr 27 1959
INSTANTANEOUS PEAK FLOW			[c]1070	Jun 21	[d]2640	Jun 20 1953
INSTANTANEOUS PEAK STAGE			[c]5.25	Jun 21	8.50	Jun 20 1953
ANNUAL RUNOFF (AC-FT)	148700		[a]144200		[a]94900	
10 PERCENT EXCEEDS	261		330		252	
50 PERCENT EXCEEDS	167		113		111	
90 PERCENT EXCEEDS	106		105		16	

a-Adjusted for storage at Williams Fork Reservoir.
b-No flow for part of Apr 29, 1975.
c-Also occurred Jun 22.
d-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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	e8.6	e13	e12	e10	e10	e38	214	695	58	28	10
2	7.0	e8.6	e13	e12	e10	e10	e39	181	666	53	22	10
3	6.9	e8.6	e13	e11	e10	e10	e41	178	694	49	20	9.6
4	7.0	e8.2	e13	e11	e10	e11	e39	236	603	50	26	10
5	6.8	e7.8	e13	e11	e10	e11	e37	342	565	47	24	12
6	6.2	e7.8	e14	e11	e10	e11	e35	442	509	44	29	12
7	5.8	e8.0	e14	e11	e10	e12	e33	540	456	39	29	13
8	5.6	e8.5	e15	e11	e10	e12	e32	559	484	37	20	12
9	5.6	e9.0	e15	e11	e10	e13	e31	547	467	33	19	10
10	5.4	e9.7	e15	e11	e10	e13	e29	616	414	31	53	9.6
11	5.3	e9.5	e15	e11	e10	e13	e29	632	398	35	46	9.5
12	5.2	e8.8	e15	e11	e10	e14	e33	625	359	31	31	11
13	5.1	e8.5	e15	e11	e10	e14	e31	683	291	24	25	13
14	5.2	e8.2	e15	e11	e10	e15	e32	703	252	23	24	10
15	5.3	e8.2	e15	e11	e10	e15	e38	701	246	20	21	9.6
16	5.5	e8.2	e15	e11	e10	e15	e50	727	210	19	16	9.4
17	e6.7	e8.3	e15	e11	e10	e16	e60	819	211	19	14	11
18	e7.5	e8.7	e15	e11	e10	e16	e90	791	205	21	16	12
19	e8.4	e9.5	e15	e11	e10	e17	e130	805	203	29	21	54
20	e8.2	e10	e14	e11	e10	e17	e160	733	193	27	16	190
21	e7.9	e10	e14	e11	e10	e17	e230	682	183	23	13	182
22	e8.4	e11	e13	e11	e10	e17	e170	724	165	18	12	76
23	e8.8	e12	e13	e11	e10	e18	e160	753	148	19	12	72
24	e8.0	e12	e13	e11	e10	e18	e160	650	128	25	11	55
25	e7.6	e12	e13	e11	e10	e19	e150	563	114	21	11	46
26	e7.6	e12	e13	e11	e10	e20	179	497	104	17	11	43
27	e7.6	e13	e13	e11	e10	e21	194	401	92	17	11	60
28	e8.0	e13	e13	e11	e10	e25	253	364	86	19	11	45
29	e8.6	e13	e13	e10	---	e29	348	546	69	25	11	36
30	e8.7	e13	e13	e10	---	e35	259	725	64	28	11	32
31	e8.7	---	e12	e10	---	e40	---	685	---	33	10	---
TOTAL	216.1	293.7	430	340	280	524	3110	17664	9274	934	624	1084.7
MEAN	6.97	9.79	13.9	11.0	10.0	16.9	104	570	309	30.1	20.1	36.2
MAX	8.8	13	15	12	10	40	348	819	695	58	53	190
MIN	5.1	7.8	12	10	10	10	29	178	64	17	10	9.4
AC-FT	429	583	853	674	555	1040	6170	35040	18390	1850	1240	2150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1997, BY WATER YEAR (WY)

MEAN	8.40	7.74	6.45	5.57	5.61	10.1	83.8	314	182	25.4	8.41	6.96
MAX	29.9	26.7	13.9	11.0	10.0	46.5	233	608	481	104	28.2	36.2
(WY)	1962	1960	1997	1997	1962	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1938 - 1997	
ANNUAL TOTAL	33003.6		34774.5			
ANNUAL MEAN	90.2		95.3		55.6	
HIGHEST ANNUAL MEAN					95.3	1997
LOWEST ANNUAL MEAN					28.3	1966
HIGHEST DAILY MEAN	964	May 18	819	May 17	964	May 18 1996
LOWEST DAILY MEAN	[a]5.0	Sep 2	5.1	Oct 13	[b].10	Aug 19 1940
ANNUAL SEVEN-DAY MINIMUM	5.3	Oct 10	5.3	Oct 10	.20	Aug 18 1940
INSTANTANEOUS PEAK FLOW			940	May 17	1120	May 18 1996
INSTANTANEOUS PEAK STAGE			8.21	May 17	8.54	May 18 1996
ANNUAL RUNOFF (AC-FT)	65460		68980		40280	
10 PERCENT EXCEEDS	373		378		202	
50 PERCENT EXCEEDS	12		15		8.0	
90 PERCENT EXCEEDS	7.1		8.5		3.3	

e-Estimated.
a-Also occurred Sep 3.
b-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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	e10	e13	e13	e10	e12	43	237	794	54	30	15
2	8.7	e10	e13	e13	e10	e12	37	201	771	49	28	15
3	8.2	e10	e13	e13	e10	e12	40	189	785	41	26	15
4	8.1	e9.0	e12	e13	e10	e12	44	244	698	35	29	16
5	8.4	e9.0	e13	e13	e10	e13	39	378	652	30	30	17
6	8.1	e8.0	e13	e12	e10	e14	36	510	598	30	34	17
7	7.6	e8.0	e14	e12	e10	e14	34	645	550	26	38	18
8	7.4	e9.0	e14	e12	e10	e14	34	680	570	26	30	18
9	7.3	e9.0	e15	e12	e10	e15	34	664	582	29	25	16
10	7.3	e10	e15	e12	e10	e15	32	699	509	20	65	15
11	7.0	e11	e15	e11	e10	e16	29	734	490	23	66	16
12	7.0	e12	e15	e11	e10	e16	37	733	438	24	41	16
13	7.0	e11	e15	e11	e10	e16	31	733	317	22	34	19
14	6.8	e10	e15	e11	e10	e16	31	772	249	21	29	16
15	6.8	e9.0	e15	e11	e10	e16	35	811	252	20	30	15
16	6.6	e9.0	e15	e11	e10	e16	47	848	226	20	24	14
17	6.9	e9.0	e15	e11	e10	e16	72	897	229	18	22	16
18	6.8	e9.0	e15	e11	e10	e16	101	885	228	19	24	18
19	7.8	e10	e15	e11	e10	e16	132	884	233	24	31	57
20	8.7	e11	e15	e11	e10	e16	161	851	226	27	25	215
21	8.6	e12	e14	e11	e10	e17	258	822	218	23	21	219
22	8.2	e12	e14	e11	e10	e17	194	850	200	19	19	103
23	8.4	e13	e14	e11	e10	e17	171	876	183	15	18	90
24	8.8	e13	e14	e11	e10	e18	170	803	159	18	17	69
25	9.2	e13	e14	e11	e10	e18	157	707	140	18	18	55
26	e8.0	e12	e14	e11	e10	e19	204	603	131	14	17	48
27	e8.0	e13	e14	e11	e11	e20	217	493	119	13	17	72
28	e8.0	e14	e14	e11	e11	e25	276	440	114	15	16	54
29	e9.0	e14	e14	e10	---	e30	425	614	93	21	17	43
30	e10	e14	e14	e10	---	e35	295	836	74	24	17	38
31	e10	---	e14	e10	---	e40	---	790	---	31	16	---
TOTAL	248.1	323.0	439	353	282	549	3416	20429	10828	769	854	1355
MEAN	8.00	10.8	14.2	11.4	10.1	17.7	114	659	361	24.8	27.5	45.2
MAX	10	14	15	13	11	40	425	897	794	54	66	219
MIN	6.6	8.0	12	10	10	12	29	189	74	13	16	14
AC-FT	492	641	871	700	559	1090	6780	40520	21480	1530	1690	2690

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1997, BY WATER YEAR (WY)

MEAN	6.60	7.55	7.03	6.89	7.27	14.2	90.2	381	188	17.6	12.5	11.1
MAX	10.5	10.8	14.2	11.4	10.7	20.1	151	659	366	52.2	27.5	45.2
(WY)	1996	1997	1997	1997	1993	1993	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1990 - 1997	
ANNUAL TOTAL	34741.3		39845.1			
ANNUAL MEAN	94.9		109		66.2	
HIGHEST ANNUAL MEAN					109	1997
LOWEST ANNUAL MEAN					29.0	1992
HIGHEST DAILY MEAN	908	May 18	897	May 17	908	May 18 1996
LOWEST DAILY MEAN	5.3	Sep 5	6.6	Oct 16	.96	Jul 25 1994
ANNUAL SEVEN-DAY MINIMUM	6.0	Feb 10	6.8	Oct 12	1.2	Jul 22 1994
INSTANTANEOUS PEAK FLOW			929	May 17	955	Jun 20 1994
INSTANTANEOUS PEAK STAGE			7.43	May 17	[a]7.36	Jun 20 1994
ANNUAL RUNOFF (AC-FT)	68910		79030		47930	
10 PERCENT EXCEEDS	371		460		219	
50 PERCENT EXCEEDS	13		16		10	
90 PERCENT EXCEEDS	6.5		9.0		3.7	

e-Estimated.
a-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.

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, 1,010 microsiemens, Aug. 19; minimum daily, 97 microsiemens, June 6.
WATER TEMPERATURE: Maximum 22.7°C, Aug. 31; minimum, 0.0°C, on many days in October and April.

REMARKS.--Water temperature and specific conductance records are rated good.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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										
17...	1130	6.7	480	8.7	3.0	1.5	10.3	210	57	16
NOV										
13...	0945	8.3	435	8.4	0.0	3.0	11.0	190	53	15
DEC										
10...	1100	15	388	8.4	0.0	62	11.4	170	46	14
FEB										
27...	1400	6.5	434	7.1	0.0	5.1	11.7	180	49	15
MAR										
18...	1130	16	525	8.3	0.5	5.0	9.3	200	52	18
APR										
16...	1445	49	599	8.6	7.5	25	11.4	240	62	22
MAY										
14...	1500	740	202	8.2	8.0	87	8.7	89	27	5.5
JUN										
02...	1400	811	139	8.4	9.0	37	8.6	60	18	3.5
JUL										
02...	1115	57	417	8.2	12.0	4.8	8.5	180	51	13
10...	1020	22	589	8.5	14.0	3.1	8.2	260	70	20
AUG										
13...	1230	34	511	8.4	11.5	10	8.3	210	57	17
SEP										
03...	1145	15	511	8.3	19.0	5.5	7.7	220	58	18

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)	ALKA-LINITY 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									
17...	17	15	0.5	2.0	143	100	2.1	0.2	7.2
NOV									
13...	17	16	0.5	1.8	133	95	2.1	0.2	8.3
DEC									
10...	15	16	0.5	1.7	137	67	1.5	0.2	11
FEB									
27...	18	17	0.6	1.6	148	80	1.8	0.2	11
MAR									
18...	23	19	0.7	3.7	142	120	3.4	0.2	9.1
APR									
16...	28	20	0.8	3.7	148	160	14	0.2	8.3
MAY									
14...	5.8	12	0.3	1.7	79	25	0.7	<0.1	8.4
JUN									
02...	3.7	12	0.2	0.8	55	15	0.5	<0.1	8.0
JUL									
02...	14	14	0.4	1.3	142	70	1.1	0.2	11
10...	20	15	0.6	1.7	195	110	1.8	0.2	10
AUG									
13...	20	17	0.6	1.8	153	110	2.3	0.2	8.6
SEP									
03...	20	17	0.6	2.2	158	100	0.4	0.3	6.8

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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									
17...	222	287	0.30	4.02	<1	0.02	<0.05	0.02	0.18
NOV									
13...	279	272	0.38	6.24	--	<0.01	<0.05	<0.02	--
DEC									
10...	246	239	0.33	10.2	6	0.01	<0.05	<0.02	0.20
FEB									
27...	284	266	0.39	4.96	--	<0.01	0.13	0.02	0.18
MAR									
18...	359	316	0.49	15.7	--	<0.01	0.20	0.09	0.51
APR									
16...	402	387	0.55	52.6	--	<0.01	0.06	0.04	0.66
MAY									
14...	138	122	0.19	276	208	<0.01	0.14	<0.01	0.68
JUN									
02...	95	83	0.13	208	--	<0.01	0.06	<0.01	0.42
JUL									
02...	278	247	0.38	42.8	--	<0.01	0.05	<0.01	0.38
10...	389	353	0.53	23.2	--	<0.01	<0.05	<0.01	0.42
AUG									
13...	337	304	0.46	30.6	--	<0.01	0.05	<0.01	0.49
SEP									
03...	323	303	0.44	12.6	10	<0.01	<0.05	<0.01	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									
17...	--	0.20	<0.20	0.20	<0.01	<0.01	<0.01	3.8	0.1
NOV									
13...	--	<0.20	<0.20	--	0.04	<0.01	<0.01	--	--
DEC									
10...	--	0.20	0.20	0.20	<0.01	<0.01	<0.01	3.6	0.1
FEB									
27...	--	0.20	<0.20	0.33	<0.01	<0.01	<0.01	--	--
MAR									
18...	0.31	0.60	0.40	0.80	0.06	<0.01	0.02	--	--
APR									
16...	0.46	0.70	0.50	0.76	0.07	0.04	0.01	--	--
MAY									
14...	--	0.70	0.30	0.82	0.22	<0.01	<0.01	--	--
JUN									
02...	--	0.40	<0.20	0.48	0.12	<0.01	<0.01	--	--
JUL									
02...	--	0.40	0.40	0.43	<0.01	<0.01	0.01	--	--
10...	--	0.40	0.30	0.42	<0.01	<0.01	<0.01	--	--
AUG									
13...	--	0.50	0.30	0.54	0.02	<0.01	<0.01	--	--
SEP									
03...	--	0.30	<0.20	0.27	<0.01	<0.01	<0.01	4.9	<0.2

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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												
17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
13...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
10...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
27...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
18...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
16...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
14...	2500	<1	1	<100	42	<10	20.7	<1	<1	5	<1	3
JUN												
02...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
02...	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
13...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
03...	160	<1	<1	<100	73	<10	58.5	<1	<1	<1	<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											
17...	--	--	260	27	--	--	--	20	14	--	--
NOV											
13...	--	--	370	<3	--	--	--	20	17	--	--
DEC											
10...	--	--	5050	31	--	--	--	20	11	--	--
FEB											
27...	--	--	430	13	--	--	--	20	11	--	--
MAR											
18...	--	--	470	44	--	--	--	40	24	--	--
APR											
16...	--	--	1100	85	--	--	--	60	54	--	--
MAY											
14...	6	1	5100	30	6	<1	10	130	10	<0.1	<0.1
JUN											
02...	--	--	2600	53	--	--	--	60	8	--	--
JUL											
02...	--	--	350	67	--	--	--	30	24	--	--
10...	--	--	260	35	--	--	--	30	28	--	--
AUG											
13...	--	--	670	59	--	--	--	50	30	--	--
SEP											
03...	1	<1	370	12	<1	<1	20	40	22	<0.1	<0.1

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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											
17...	--	--	--	--	--	--	--	--	--	--	--
NOV											
13...	--	--	--	--	--	--	--	--	--	--	--
DEC											
10...	--	--	--	--	--	--	--	--	--	--	--
FEB											
27...	--	--	--	--	--	--	--	--	--	--	--
MAR											
18...	--	--	--	--	--	--	--	--	--	--	--
APR											
16...	--	--	--	--	--	--	--	--	--	--	--
MAY											
14...	<1	<1	9	2	<1	<1	<1	<1	220	30	<3
JUN											
02...	--	--	--	--	--	--	--	--	--	--	--
JUL											
02...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
AUG											
13...	--	--	--	--	--	--	--	--	--	--	--
SEP											
03...	2	3	1	2	<1	<1	<1	<1	550	<10	5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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				
17...	1030	6.7	5	0.09
NOV				
13...	0930	8.3	25	0.56
DEC				
10...	1050	15	16	0.68
FEB				
27...	1430	6.5	11	0.19
MAR				
18...	1140	16	15	0.65
APR				
10...	1200	31	23	1.9
16...	1430	49	51	6.6
MAY				
02...	1300	180	200	98
14...	1145	790	307	652
JUN				
02...	1310	810	153	335
11...	0930	540	124	179
JUL				
02...	1100	57	10	1.5
10...	1130	22	14	0.86
AUG				
13...	1215	34	19	1.7
SEP				
03...	1200	15	10	0.39

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

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	397	384	390	---	---	---	---	---	---	---	---	---
2	410	395	401	---	---	---	---	---	---	---	---	---
3	419	410	415	---	---	---	---	---	---	---	---	---
4	434	419	430	---	---	---	---	---	---	---	---	---
5	433	429	431	---	---	---	---	---	---	---	---	---
6	430	425	427	---	---	---	---	---	---	---	---	---
7	441	429	437	---	---	---	---	---	---	---	---	---
8	450	439	444	---	---	---	---	---	---	---	---	---
9	457	449	454	---	---	---	---	---	---	---	---	---
10	465	457	461	---	---	---	---	---	---	---	---	---
11	472	455	461	---	---	---	---	---	---	---	---	---
12	468	459	462	---	---	---	---	---	---	---	---	---
13	468	463	465	---	---	---	---	---	---	---	---	---
14	467	465	466	---	---	---	---	---	---	---	---	---
15	471	465	468	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	480	455	461	---	---	---	---	---	---	---	---	---
18	472	455	462	---	---	---	---	---	---	---	---	---
19	469	444	456	---	---	---	---	---	---	---	---	---
20	458	429	446	---	---	---	---	---	---	---	---	---
21	433	421	428	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	374	335	347
2	---	---	---	---	---	---	---	---	---	375	358	365
3	---	---	---	---	---	---	---	---	---	374	356	364
4	---	---	---	---	---	---	---	---	---	374	324	354
5	---	---	---	---	---	---	---	---	---	324	285	302
6	---	---	---	---	---	---	---	---	---	291	265	277
7	---	---	---	---	---	---	---	---	---	270	241	254
8	---	---	---	---	---	---	---	---	---	249	229	239
9	---	---	---	---	---	---	---	---	---	241	217	231
10	---	---	---	---	---	---	---	---	---	230	213	221
11	---	---	---	---	---	---	675	---	---	220	207	214
12	---	---	---	---	---	---	588	456	507	218	205	210
13	---	---	---	---	---	---	574	448	507	220	202	210
14	---	---	---	---	---	---	581	429	497	214	202	208
15	---	---	---	---	---	---	552	462	500	210	193	199
16	---	---	---	---	---	---	614	520	572	200	186	192
17	---	---	---	---	---	---	649	524	587	195	174	181
18	---	---	---	---	---	---	552	463	512	174	163	167
19	---	---	---	---	---	---	488	403	455	166	154	158
20	---	---	---	---	---	---	439	397	414	155	145	151
21	---	---	---	---	---	---	421	342	376	180	154	164
22	---	---	---	---	---	---	358	330	346	231	165	196
23	---	---	---	---	---	---	379	348	358	209	169	182
24	---	---	---	---	---	---	388	357	370	170	157	164
25	---	---	---	---	---	---	382	362	373	174	159	166
26	---	---	---	---	---	---	382	339	354	183	167	175
27	---	---	---	---	---	---	364	335	346	203	183	197
28	---	---	---	---	---	---	355	306	319	208	188	198
29	---	---	---	---	---	---	342	312	327	247	176	209
30	---	---	---	---	---	---	341	316	326	213	164	179
31	---	---	---	---	---	---	---	---	---	164	143	152
MONTH	---	---	---	---	---	---	---	---	---	375	143	220

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

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	150	131	140	401	384	392	750	646	701	534	522	527
2	147	125	134	427	395	406	646	601	630	525	515	519
3	150	133	143	454	414	430	626	592	611	519	504	509
4	145	126	136	516	454	483	602	549	586	590	498	523
5	138	111	123	541	505	515	567	547	558	593	535	562
6	154	97	118	553	533	540	631	551	601	535	498	511
7	154	118	132	569	549	557	621	569	605	512	498	505
8	166	108	128	589	565	575	569	545	556	499	486	494
9	170	132	148	602	558	584	558	517	546	491	479	486
10	186	116	142	583	555	570	656	517	588	563	490	520
11	187	129	159	563	553	558	554	410	474	553	534	542
12	184	148	164	590	560	579	491	443	473	667	553	594
13	193	150	170	620	590	607	505	459	486	606	483	542
14	229	182	200	624	614	620	512	475	496	486	469	476
15	236	218	226	650	613	637	531	454	479	510	486	498
16	256	213	231	704	634	673	499	477	490	519	510	516
17	246	226	238	740	693	723	532	498	520	516	485	506
18	267	229	244	733	715	723	689	511	550	521	456	471
19	358	258	275	715	654	693	1010	581	701	678	420	522
20	276	239	252	655	628	637	620	534	568	666	252	363
21	272	255	262	641	621	634	551	533	543	428	255	306
22	266	258	261	645	619	634	557	525	540	315	265	289
23	277	262	269	701	632	662	538	521	530	346	288	307
24	280	269	273	741	670	691	534	523	529	301	283	289
25	302	273	291	673	658	668	540	520	526	302	289	294
26	326	296	315	671	645	660	634	540	583	326	299	307
27	335	322	328	674	654	665	590	532	550	330	275	295
28	354	322	342	671	658	664	537	523	531	294	285	291
29	352	344	347	734	662	696	541	522	533	315	293	306
30	454	346	373	680	642	666	534	522	527	323	315	318
31	---	---	---	779	648	726	528	518	521	---	---	---
MONTH	454	97	219	779	384	609	1010	410	553	678	252	440

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	12.1	7.8	10.0	---	---	---	---	---	---	---	---	---
2	13.9	7.9	10.6	---	---	---	---	---	---	---	---	---
3	14.1	10.8	12.2	---	---	---	---	---	---	---	---	---
4	15.1	10.4	12.2	---	---	---	---	---	---	---	---	---
5	14.5	9.0	11.6	---	---	---	---	---	---	---	---	---
6	14.1	8.2	10.9	---	---	---	---	---	---	---	---	---
7	13.6	7.4	10.3	---	---	---	---	---	---	---	---	---
8	13.2	6.6	9.7	---	---	---	---	---	---	---	---	---
9	13.2	6.5	9.6	---	---	---	---	---	---	---	---	---
10	13.2	6.5	9.6	---	---	---	---	---	---	---	---	---
11	13.0	6.3	9.4	---	---	---	---	---	---	---	---	---
12	13.0	6.3	9.5	---	---	---	---	---	---	---	---	---
13	12.7	6.2	9.3	---	---	---	---	---	---	---	---	---
14	11.7	6.9	8.9	---	---	---	---	---	---	---	---	---
15	9.6	4.8	7.2	---	---	---	---	---	---	---	---	---
16	6.0	2.9	4.6	---	---	---	---	---	---	---	---	---
17	4.7	.4	2.4	---	---	---	---	---	---	---	---	---
18	5.5	.0	2.4	---	---	---	---	---	---	---	---	---
19	7.5	1.8	4.3	---	---	---	---	---	---	---	---	---
20	5.1	1.6	3.5	---	---	---	---	---	---	---	---	---
21	2.5	.0	.9	---	---	---	---	---	---	---	---	---
22	.9	---	---	---	---	---	---	---	---	---	---	---
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 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	5.5	1.4	3.6
2	---	---	---	---	---	---	---	---	---	7.5	---	---
3	---	---	---	---	---	---	---	---	---	8.8	1.6	5.2
4	---	---	---	---	---	---	---	---	---	9.2	2.6	6.2
5	---	---	---	---	---	---	---	---	---	10.8	2.2	6.4
6	---	---	---	---	---	---	---	---	---	10.3	2.1	6.1
7	---	---	---	---	---	---	---	---	---	10.4	2.7	6.4
8	---	---	---	---	---	---	---	---	---	9.8	1.6	5.7
9	---	---	---	---	---	---	---	---	---	10.2	1.9	6.1
10	---	---	---	---	---	---	5.5	---	---	10.5	2.3	6.4
11	---	---	---	---	---	---	2.6	.0	.9	8.6	2.9	6.2
12	---	---	---	---	---	---	2.7	.0	.9	9.6	3.1	6.3
13	---	---	---	---	---	---	3.8	.0	1.4	9.8	2.7	6.5
14	---	---	---	---	---	---	4.9	.0	2.0	9.9	3.3	6.7
15	---	---	---	---	---	---	7.8	1.8	4.7	10.4	3.7	7.1
16	---	---	---	---	---	---	9.4	.7	5.2	11.9	4.2	8.2
17	---	---	---	---	---	---	9.4	.0	4.7	10.6	4.4	7.8
18	---	---	---	---	---	---	8.0	.0	3.6	11.6	4.4	8.1
19	---	---	---	---	---	---	6.4	.0	3.1	11.7	4.4	8.2
20	---	---	---	---	---	---	5.0	1.6	3.1	9.8	3.7	6.9
21	---	---	---	---	---	---	3.9	.9	2.2	8.6	5.0	6.9
22	---	---	---	---	---	---	6.4	.0	2.7	8.0	5.3	6.6
23	---	---	---	---	---	---	5.7	.7	3.5	10.8	4.5	7.6
24	---	---	---	---	---	---	5.0	1.7	3.6	9.2	5.2	6.7
25	---	---	---	---	---	---	8.4	.1	4.1	8.1	4.1	6.1
26	---	---	---	---	---	---	8.6	1.6	5.2	7.2	4.0	5.3
27	---	---	---	---	---	---	8.4	.3	4.5	9.2	4.2	6.5
28	---	---	---	---	---	---	7.0	2.0	4.5	11.2	5.3	8.3
29	---	---	---	---	---	---	5.2	1.4	3.0	10.5	6.3	7.5
30	---	---	---	---	---	---	5.6	.4	3.1	11.9	5.5	8.5
31	---	---	---	---	---	---	---	---	---	13.4	5.4	9.6
MONTH	---	---	---	---	---	---	---	---	---	13.4	---	---

		JUNE			JULY			AUGUST			SEPTEMBER	
1	12.6	6.3	9.9	19.1	12.0	15.5	19.8	14.2	16.9	20.8	16.8	18.7
2	11.6	6.3	8.7	18.9	10.5	14.7	22.2	15.1	18.6	21.9	15.9	18.9
3	13.0	5.2	9.0	19.3	11.7	15.5	22.3	15.8	19.3	21.6	16.2	19.0
4	13.2	6.4	10.1	20.3	11.5	15.9	21.1	16.8	19.3	19.9	16.3	18.0
5	12.1	6.9	9.8	20.6	11.8	16.3	19.4	16.5	17.5	19.3	13.8	16.6
6	11.4	6.9	8.7	18.2	11.9	15.7	17.0	14.5	15.4	17.1	12.7	14.4
7	10.9	7.3	9.1	20.5	12.4	16.5	20.5	12.0	16.0	15.3	10.8	13.0
8	10.4	7.2	8.7	18.6	13.1	16.2	20.5	13.3	17.1	17.7	11.3	14.8
9	11.7	6.9	9.2	19.9	12.2	16.3	19.1	15.0	17.0	18.2	12.5	15.6
10	11.6	8.6	10.2	20.9	13.0	17.1	16.7	14.3	15.6	18.7	12.7	15.8
11	12.0	7.7	9.6	18.9	13.4	15.6	15.2	13.1	14.2	17.6	14.5	16.2
12	12.1	9.1	10.8	16.8	11.1	14.0	13.4	10.7	12.3	18.3	13.8	16.1
13	13.1	8.8	11.0	20.1	11.8	16.0	14.8	10.2	12.3	17.3	12.4	15.2
14	12.8	9.0	11.1	20.5	12.5	16.8	16.5	12.1	14.5	16.6	12.1	14.7
15	12.5	8.8	10.7	21.1	13.3	17.5	19.5	12.3	16.1	14.6	11.9	13.2
16	15.5	8.2	11.4	18.9	14.5	16.7	17.7	13.6	16.2	15.7	11.7	13.4
17	16.5	10.2	13.2	20.6	13.0	16.6	20.4	14.6	17.4	15.7	10.3	13.1
18	14.6	10.6	13.0	19.8	14.1	16.8	18.0	13.9	15.6	14.4	12.7	13.7
19	17.3	11.3	14.4	19.1	13.7	16.5	16.5	11.5	14.0	13.4	11.1	12.4
20	16.8	12.4	14.8	21.5	13.6	17.4	19.8	12.2	16.1	13.3	10.4	11.7
21	18.0	12.6	15.4	21.6	13.9	18.0	20.5	14.7	17.8	11.6	9.9	10.8
22	19.2	12.2	15.8	20.8	14.9	18.2	20.8	14.4	17.9	11.4	9.0	10.2
23	19.3	12.3	15.9	21.7	16.4	18.7	21.7	14.9	18.6	12.8	8.5	10.1
24	18.4	13.6	16.3	22.0	15.3	18.6	19.6	15.6	18.0	13.7	8.2	10.6
25	18.7	12.0	15.4	21.9	14.6	18.6	21.6	15.1	18.2	14.6	8.0	11.2
26	18.3	11.8	15.4	21.8	15.7	18.8	19.3	16.2	17.7	12.8	10.9	11.5
27	17.5	13.1	15.5	18.8	16.3	17.5	19.3	14.1	17.1	14.3	10.0	11.9
28	18.1	12.1	15.2	19.5	14.5	16.8	19.4	15.1	17.6	13.4	7.6	10.4
29	19.8	11.5	15.5	18.6	15.0	16.9	18.7	14.5	17.0	13.3	6.6	9.9
30	19.9	12.0	15.9	20.9	15.0	18.0	20.4	13.9	17.2	13.8	7.4	10.7
31	---	---	---	18.8	15.9	17.4	22.7	15.0	17.9	---	---	---
MONTH	19.9	5.2	12.3	22.0	10.5	16.8	22.7	10.2	16.7	21.9	6.6	13.7

401110106244800 WOLFORD MOUNTAIN RESERVOIR AT INFLOW NEAR KREMMLING, CO

WATER-QUALITY RECORDS

LOCATION.--(REVISED) 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 1996 TO SEPTEMBER 1997

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						
16...	1135	0.1	556	7.9	11.0	7.1
16...	1136	5.0	556	7.9	11.0	7.8
JUN						
04...	1130	0.1	169	8.1	12.5	7.5
04...	1131	5.0	156	8.1	10.0	7.9
04...	1132	10	148	8.2	7.5	8.5
JUL						
09...	1155	0.1	454	8.2	18.0	8.0
09...	1156	5.0	460	8.2	17.0	7.6
09...	1157	10	587	8.1	16.5	7.3
SEP						
04...	1155	0.1	509	8.4	20.0	7.4
04...	1156	5.0	519	8.3	19.5	7.2
04...	1157	10	540	8.1	19.5	6.5

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												
16...	1140	5.0	556	7.9	11.0	2.8	48	7.8	230	59	21	21
JUN												
04...	1145	5.0	156	8.1	10.0	29	11	7.9	70	20	4.5	4.9
JUL												
09...	1200	5.0	460	8.2	17.0	3.2	82	7.6	190	48	16	17
SEP												
04...	1200	5.0	519	8.3	19.5	1.1	75	7.2	220	57	19	18

DATE	SODIUM ADSORPTION RATIO (00931)	SODIUM PERCENT (00932)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY 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												
16...	0.6	16	2.8	124	160	2.1	0.2	9.0	366	350	0.58	0.38
JUN												
04...	0.3	13	1.0	57	22	0.5	<0.1	8.3	115	97	0.31	0.24
JUL												
09...	0.5	16	1.7	119	110	1.4	0.1	6.8	302	270	0.39	0.39
SEP												
04...	0.5	15	2.0	122	130	0.4	0.2	4.1	336	308	0.44	0.44

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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											
16...	0.28	0.12	0.02	0.4	0.5	0.08	0.03	<0.01	0.01	5.8	0.1
JUN											
04...	--	<0.01	<0.01	<0.2	0.2	0.07	0.05	<0.01	<0.01	6.7	0.1
JUL											
09...	--	<0.01	<0.01	0.3	0.4	<0.05	<0.01	<0.01	<0.01	7.1	<0.2
SEP											
04...	--	<0.01	<0.01	0.3	0.4	<0.05	<0.01	<0.01	<0.01	7.0	<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										
16...	100	1	1	<100	67	<10	<1	<1	<1	<1
JUN										
04...	730	<1	<1	<100	32	<10	<1	<1	1	<1
JUL										
09...	70	1	<1	<100	58	<10	<1	<1	<1	<1
SEP										
04...	40	1	<1	<100	60	<10	<1	2	<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										
16...	<1	<1	<1	350	42	<1	<1	20	100	94
JUN										
04...	<1	1	1	1100	54	1	<1	<10	30	9
JUL										
09...	<1	1	<1	190	51	<1	<1	20	40	21
SEP										
04...	<1	<1	<1	120	15	<1	<1	20	30	5

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										
16...	<0.1	<0.1	2	3	2	2	<1	<1	<10	<3
JUN										
04...	<0.1	<0.1	<1	3	<1	<1	<1	<1	10	<3
JUL										
09...	<0.1	<0.1	2	2	1	1	<1	<1	<10	4
SEP										
04...	<0.1	<0.1	1	1	2	2	<1	<1	<10	<3

400841106240600 WOLFORD MOUNTAIN RESERVOIR AT MIDLAKE NEAR KREMMLING, CO

WATER-QUALITY RECORDS

LOCATION.--Lat. 40°08'41", long 106°24'06", in NW1/4 NW1/4 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 1996 TO SEPTEMBER 1997

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						
16...	1050	0.1	523	7.9	12.0	6.3
16...	1051	5.0	523	7.9	12.0	6.2
16...	1052	10	523	7.9	12.0	6.2
16...	1053	15	523	7.9	12.0	6.2
16...	1054	20	523	7.9	12.0	6.2
16...	1055	25	523	7.9	12.0	6.2
16...	1056	30	523	7.9	12.0	6.2
16...	1057	40	523	7.9	12.0	6.2
16...	1058	50	588	7.5	10.5	1.2
JUN						
04...	1035	0.1	364	8.5	16.0	8.0
04...	1036	5.0	366	8.5	14.5	8.0
04...	1037	10	368	8.4	13.0	7.9
04...	1038	15	354	8.3	12.5	7.7
04...	1039	20	351	8.2	11.0	7.3
04...	1040	25	345	8.1	10.0	7.3
04...	1041	30	357	8.1	9.5	7.2
04...	1042	40	311	8.1	8.5	7.3
04...	1043	50	377	8.0	8.5	7.0
04...	1045	60	414	8.0	8.5	6.9
JUL						
09...	1100	0.1	365	8.3	17.5	7.5
09...	1101	5.0	363	8.3	16.5	7.7
09...	1102	10	362	8.2	16.0	7.4
09...	1103	15	362	8.2	16.0	7.3
09...	1104	20	362	8.2	16.0	7.3
09...	1105	25	392	8.1	15.5	6.8
09...	1106	30	418	7.8	13.0	5.6
09...	1107	40	417	7.7	10.0	5.5
09...	1108	50	431	7.7	9.5	5.4
09...	1109	60	489	7.7	8.5	5.1
SEP						
04...	1105	0.1	460	8.5	19.5	7.7
04...	1106	5.0	460	8.5	19.0	7.8
04...	1107	10	460	8.5	19.0	7.5
04...	1108	15	459	8.4	18.0	7.2
04...	1109	25	466	8.2	17.5	6.1
04...	1110	25	466	8.0	17.5	5.5
04...	1111	30	530	7.6	16.0	2.7
04...	1112	40	573	7.5	13.5	1.4
04...	1113	50	575	7.5	11.5	1.7
04...	1114	60	548	7.5	10.5	1.1

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												
16...	1115	0.1	523	7.9	12.0	0.6	116	6.3	<1	220	57	19
16...	1130	50	588	7.5	10.5	2.8	--	1.2	--	240	58	24
JUN												
04...	1100	0.1	364	8.5	16.0	3.9	80.0	8.0	K1	160	42	12
04...	1115	60	414	8.0	8.5	11	--	6.9	--	160	44	13
JUL												
09...	1115	0.1	365	8.3	17.5	2.2	92.0	7.5	<1	150	39	12
09...	1130	60	489	7.7	8.5	4.2	--	5.1	--	190	49	16
SEP												
04...	1130	0.1	460	8.5	19.5	0.3	110	7.7	<1	190	51	16
04...	1145	60	548	7.5	10.5	1.4	--	1.1	--	230	59	20

K-Based on non-ideal colony count.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	ALKA-LINITY 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												
16...	18	0.5	15	2.4	117	150	1.8	0.2	8.7	344	328	0.52
16...	21	0.6	16	2.4	117	180	2.0	0.2	9.2	386	368	0.66
JUN												
04...	13	0.4	15	2.0	92	85	1.5	0.1	8.5	240	220	--
04...	14	0.5	15	2.0	96	98	1.6	0.1	8.7	261	239	0.45
JUL												
09...	12	0.4	15	1.6	89	85	1.2	0.1	6.8	238	211	0.37
09...	17	0.5	16	2.1	102	130	1.9	0.1	8.5	324	290	0.50
SEP												
04...	15	0.5	15	1.8	107	120	0.3	0.1	3.9	273	273	0.33
04...	19	0.5	15	2.0	109	160	0.4	0.2	8.6	365	335	0.54

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												
16...	0.35	0.25	0.05	0.02	0.3	0.4	0.12	<0.01	<0.01	<0.01	0.5	<0.1
16...	0.35	0.25	0.15	0.03	0.4	0.5	0.16	0.03	<0.01	0.02	--	--
JUN												
04...	--	--	<0.01	<0.01	<0.2	--	0.09	-	<0.01	<0.01	2.1	<0.1
04...	0.25	0.18	0.02	<0.01	0.2	0.3	0.18	0.03	<0.01	<0.01	--	--
JUL												
09...	0.37	--	<0.01	<0.01	0.3	0.4	<0.05	<0.01	<0.01	<0.01	1.4	<0.1
09...	0.28	--	<0.01	<0.01	<0.2	0.3	0.23	<0.01	<0.01	0.01	--	--
SEP												
04...	0.33	--	<0.01	<0.01	0.2	0.3	<0.05	<0.01	<0.01	<0.01	1.4	<0.1
04...	0.29	--	<0.01	<0.01	0.2	0.3	0.25	<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										
16...	50	1	1	<100	63	<10	<1	<1	<1	<1
16...	70	1	1	<100	61	<10	<1	<1	<1	<1
JUN										
04...	90	<1	<1	<100	49	<10	<1	<1	<1	<1
04...	200	<1	<1	<100	50	<10	<1	<1	<1	<1
JUL										
09...	60	<1	<1	<100	48	<10	<1	<1	<1	<1
09...	110	<1	<1	100	50	<10	<1	3	<1	<1
SEP										
04...	<10	1	<1	<100	55	<1	<1	<1	<1	<1
04...	20	<1	<1	<100	49	<10	<1	<1	<1	<1

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										
16...	<1	<1	<1	90	12	<1	<1	20	40	30
16...	1	<1	<1	290	59	<1	<1	20	310	270
JUN										
04...	<1	2	1	130	9	<1	<1	10	<10	3
04...	<1	1	1	360	17	<1	<1	10	20	5
JUL										
09...	<1	<1	<1	100	31	<1	<1	10	10	3
09...	<1	1	<1	110	16	<1	<1	20	40	4
SEP										
04...	<1	1	<1	40	5	<1	<1	20	<10	<1
04...	<1	1	<1	90	13	<1	<1	20	30	3

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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										
16...	<0.1	<0.1	2	2	2	2	<1	<1	<10	8
16...	<0.1	<0.1	2	3	2	3	<1	<1	<10	8
JUN										
04...	<0.1	<0.1	2	2	1	2	<1	<1	<10	<3
04...	<0.1	<0.1	2	2	2	2	<1	<1	<10	<3
JUL										
09...	<0.1	<0.1	1	1	2	1	<1	<1	<10	6
09...	<0.1	<0.1	3	2	2	2	<1	<1	<10	4
SEP										
04...	<0.1	<0.1	2	<1	2	2	<1	<1	<10	9
04...	<0.1	<0.1	1	1	2	2	<1	<1	<10	6

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 1996 TO SEPTEMBER 1997

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										
17...	1400	0.30	2880	7.7	7.0	20	--	1900	550	120
JUL										
10...	0930	1.0	2650	7.8	10.0	5.0	8.4	1600	520	76

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)	ALKA-LINITY 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									
17...	35	4	0.4	7.2	221	1700	9.2	0.8	9.2
JUL									
10...	24	3	0.3	4.7	216	1500	5.6	0.9	11

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									
17...	2800	2570	3.81	2.27	36	0.02	<0.05	0.16	0.14
JUL									
10...	2550	2240	3.47	6.89	10	<0.01	0.27	0.06	0.26

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									
17...	0.04	0.3	0.2	0.30	<0.01	<0.01	<0.01	5.7	0.1
JUL									
10...	0.25	0.3	0.3	0.59	<0.01	<0.01	<0.01	6.7	<0.2

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												
17...	200	<1	<1	<100	17	<10	250	<1	<1	<1	<1	<1
JUL												
10...	130	<1	<1	100	17	<10	174	<1	<1	1	1.6	<1

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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											
17...	1	<1	1300	21	<2	<2	110	60	56	<0.1	<0.1
JUL											
10...	2	<1	430	<9	<1	<1	60	30	24	<0.1	<0.1

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											
17...	7	8.7	11	11	13	12	<1	<1	6300	<10	16
JUL											
10...	13	9.7	17	14	30	30	<1	<1	5100	<10	<9

09041395 WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO

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

RESERVOIR ELEVATIONS AND CONTENTS RECORDS

DRAINAGE AREA.--270 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 (revised), at elevation 7,489 ft (revised), 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, 68,160 acre-ft, June 3, elevation, 7,490.62 ft; minimum, 42,860 acre ft, Apr. 18, elevation 7,471.60 ft.

MONTHEND ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	7,477.90	50,430	-
Oct. 31.	7,476.40	48,550	-1,880
Nov. 30.	7,476.10	48,180	-370
Dec. 31.	7,475.90	47,940	-240
CAL YR 1996.	-	-	+19,390
Jan. 31.	7,475.70	47,690	-250
Feb. 28.	7,474.30	46,000	-1,690
Mar. 31.	7,472.70	44,120	-1,880
Apr. 30.	7,472.52	43,920	-200
May 31.	7,489.87	67,200	+23,280
June 30.	7,489.25	66,250	-950
July 31.	7,488.94	65,780	-470
Aug. 31.	7,487.65	63,850	-1,930
Sept. 30.	7,484.63	59,470	-4,380
WTR YR 1997.	-	-	+9,040

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 1996 TO SEPTEMBER 1997

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	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)
OCT						
16...	0955	0.1	519	7.9	11.5	6.3
16...	0956	5.0	519	7.9	11.5	6.3
16...	0957	10	519	7.9	11.5	6.3
16...	0958	15	519	7.9	11.5	6.2
16...	0959	20	518	7.9	11.5	6.1
16...	1000	25	519	7.9	11.5	6.2
16...	1001	30	517	7.9	11.5	6.2
16...	1002	40	520	7.9	11.5	6.1
16...	1003	50	522	7.8	11.5	5.7
16...	1004	60	556	7.5	10.5	1.3
16...	1005	70	706	7.4	9.5	1.0
16...	1006	80	852	7.4	9.5	1.0
16...	1007	90	>1000	7.3	9.0	1.0
JUN						
04...	0935	0.1	382	8.5	16.0	8.0
04...	0936	5.0	382	8.5	15.0	8.0
04...	0937	10	378	8.3	12.5	7.6
04...	0938	15	375	8.3	12.0	7.5
04...	0939	20	372	8.2	11.5	7.4
04...	0940	25	367	8.2	10.5	7.2
04...	0941	30	377	8.1	10.0	7.1
04...	0942	40	358	8.1	9.5	7.2
04...	0943	50	427	8.1	9.0	7.2
04...	0944	60	451	8.1	8.5	7.1
04...	0945	70	532	8.0	8.0	6.8
04...	0946	80	589	8.0	7.0	6.5
04...	0947	90	630	7.9	6.5	6.0
04...	0948	100	698	7.8	6.5	5.6
04...	0949	110	882	7.7	6.0	4.8
JUL						
09...	1000	0.1	354	8.1	16.0	7.3
09...	1001	5.0	353	8.2	15.5	7.3
09...	1002	10	353	8.2	15.5	7.2
09...	1003	15	353	8.1	15.5	7.1
09...	1004	20	354	8.1	15.5	7.0
09...	1005	25	352	8.1	15.5	7.0
09...	1006	30	369	7.9	14.5	5.9
09...	1007	40	376	7.8	10.5	6.0
09...	1008	50	410	7.8	9.0	6.2
09...	1009	60	471	7.8	8.5	5.8
09...	1010	70	542	7.7	8.0	5.1
09...	1011	80	592	7.7	7.5	4.8
09...	1012	90	626	7.7	7.5	4.6
09...	1013	100	716	7.6	7.5	4.4
SEP						
04...	1005	0.1	459	8.4	18.5	7.4
04...	1006	5.0	459	8.4	18.5	7.3
04...	1007	10	459	8.4	18.5	7.3
04...	1008	15	461	8.3	18.0	7.0
04...	1009	20	465	8.1	17.5	5.9
04...	1010	25	478	7.8	16.5	4.0
04...	1011	30	502	7.6	16.0	2.4
04...	1012	40	505	7.5	14.0	1.5
04...	1013	50	468	7.6	10.5	3.0
04...	1014	60	502	7.5	9.5	2.5
04...	1015	70	584	7.5	8.5	1.9
04...	1016	80	623	7.5	8.0	1.8
04...	1017	90	703	7.5	8.0	1.6
04...	1018	100	>1000	7.4	8.0	1.1

09041395 WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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												
16...	1015	0.1	519	7.9	11.5	0.6	130	6.3	<1	220	57	19
16...	1030	90	>1000	7.3	9.0	3.3	--	1.0	--	410	110	34
JUN												
04...	1000	0.1	382	8.5	16.0	3.1	82.0	8.0	K1	160	43	12
04...	1015	110	882	7.7	6.0	2.6	--	4.8	--	290	73	25
JUL												
09...	1025	0.1	354	8.1	11.0	1.9	113	7.3	<1	140	38	11
09...	1040	100	716	7.6	7.5	2.1	--	4.4	--	260	68	22
SEP												
04...	1030	0.1	459	8.4	1.0	0.5	130	7.4	K1	200	52	16
04...	1045	100	>1000	7.4	8.0	1.0	--	1.1	--	330	88	26

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	SODIUM PERCENT (00932)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY 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												
16...	17	0.5	14	2.4	115	150	1.8	0.2	8.8	355	326	0.50
16...	27	0.6	12	2.7	114	370	2.3	0.2	9.8	666	627	0.83
JUN												
04...	13	0.5	15	2.0	96	92	1.5	0.1	8.5	250	230	0.40
04...	26	0.7	16	2.7	127	210	2.8	0.2	8.7	460	424	0.52
JUL												
09...	11	0.4	15	1.6	87	83	1.2	0.1	6.3	234	205	0.34
09...	22	0.6	15	2.5	118	200	2.6	0.1	8.6	445	395	0.69
SEP												
04...	15	0.5	15	1.7	106	120	0.3	0.2	4.0	296	272	0.31
04...	24	0.6	14	2.5	118	250	0.5	0.2	9.5	513	471	0.73

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												
16...	0.35	0.25	0.05	0.02	0.3	0.4	0.10	0.01	<0.01	<0.01	0.1	<0.1
16...	0.31	0.21	0.29	0.03	0.5	0.6	0.23	0.06	0.02	0.02	--	--
JUN												
04...	0.31	--	<0.01	<0.01	<0.2	0.3	0.09	<0.01	<0.01	<0.01	1.7	<0.1
04...	0.20	0.19	0.04	<0.01	0.2	0.2	0.29	<0.01	<0.01	<0.01	--	--
JUL												
09...	0.34	--	<0.01	<0.01	<0.2	0.3	<0.05	0.05	<0.01	<0.01	0.6	<0.1
09...	0.38	--	<0.01	<0.01	0.2	0.4	0.31	<0.01	<0.01	0.01	--	--
SEP												
04...	0.31	--	<0.02	<0.01	0.2	0.3	<0.05	<0.01	<0.01	<0.01	1.0	<0.1
04...	0.27	0.23	0.02	<0.01	0.2	0.3	0.44	<0.01	<0.01	0.01	--	--

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										
16...	60	1	1	<100	62	<10	<1	<1	<1	<1
16...	20	2	1	<100	53	<10	<1	<1	<1	<1
JUN										
04...	70	<1	<1	<100	51	<10	<1	<1	<1	<1
04...	60	<1	<1	<100	61	<10	<1	<1	<1	<1
JUL										
09...	60	<1	<1	<100	47	<10	<1	<1	<1	<1
09...	80	<1	<1	<100	55	<10	<1	<1	<1	<1
SEP										
04...	<10	<1	<1	<100	55	<10	<1	<1	<1	<1
04...	40	<1	<1	<100	49	<10	<1	<1	<1	<1

K-Based on non-ideal colony count.

09041395 WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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										
16...	<1	<1	<1	70	12	<1	<1	20	40	26
16...	2	<1	<1	690	120	<1	<1	30	790	790
JUN										
04...	<1	1	2	110	16	<1	<1	10	<10	2
04...	<1	<1	1	70	3	<1	<1	20	40	8
JUL										
09...	<1	<1	<1	100	30	<1	<1	10	10	3
09...	<1	<1	<1	70	9	<1	<1	20	40	3
SEP										
04...	<1	2	<1	40	4	<1	<1	20	<10	1
04...	<1	<1	<1	50	4	<1	<1	30	100	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										
16...	<0.1	<0.1	2	2	2	2	<1	<1	<10	<3
16...	<0.1	<0.1	4	4	14	13	<1	<1	<10	<3
JUN										
04...	<0.1	<0.1	2	2	2	2	<1	<1	<10	<3
04...	<0.1	<0.1	3	3	4	4	<1	<1	<10	<3
JUL										
09...	<0.1	<0.1	1	2	1	1	<1	<1	<10	6
09...	<0.1	<0.1	3	2	5	4	<1	<1	<10	7
SEP										
04...	<0.1	<0.1	2	<1	2	2	<1	<1	<10	11
04...	<0.1	<0.1	3	2	5	5	<1	<1	<10	<3

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	26	23	22	29	30	79	207	873	141	90	132
2	45	26	23	22	29	30	91	207	982	120	90	131
3	46	26	22	22	29	64	99	206	992	117	89	131
4	46	26	22	22	e29	81	100	244	970	110	89	132
5	46	25	22	22	29	82	101	272	901	107	89	132
6	46	30	22	22	29	82	101	275	827	102	92	132
7	45	17	23	22	e32	82	101	276	756	100	91	133
8	45	e23	22	22	e32	81	101	327	721	97	88	132
9	49	e23	22	22	e32	80	100	354	740	97	88	132
10	e48	e23	22	22	e32	80	101	387	681	95	89	132
11	e42	e21	21	22	e32	80	102	439	678	94	99	131
12	e43	e21	22	22	e32	80	102	439	616	94	101	131
13	e44	e21	22	22	32	79	102	442	518	91	96	132
14	e43	24	22	22	e32	79	101	441	426	91	91	133
15	44	24	22	23	32	78	100	444	397	91	87	134
16	45	25	22	23	32	78	100	446	353	91	86	133
17	e33	25	22	23	e32	79	99	449	311	91	86	134
18	24	24	21	23	32	79	99	510	303	91	86	133
19	24	24	22	23	e32	79	101	562	306	91	86	134
20	24	24	22	23	e32	79	101	563	297	91	86	134
21	24	20	21	24	e32	79	102	565	280	91	86	134
22	24	20	22	28	e32	78	123	534	259	91	86	134
23	24	25	22	30	e32	78	170	458	238	91	85	142
24	24	25	22	30	e32	79	199	518	217	91	85	162
25	24	25	22	30	e32	80	202	581	195	91	85	162
26	24	25	22	30	31	79	202	525	197	91	85	161
27	24	24	22	30	30	e79	203	401	210	90	85	161
28	24	23	22	e29	30	79	203	240	196	90	101	162
29	24	23	22	e29	---	79	204	124	176	90	132	163
30	24	23	22	e29	---	80	206	143	157	90	132	162
31	26	---	22	29	---	79	---	501	---	90	132	---
TOTAL	1094	711	682	764	873	2351	3795	12080	14773	2998	2893	4191
MEAN	35.3	23.7	22.0	24.6	31.2	75.8	127	390	492	96.7	93.3	140
MAX	49	30	23	30	32	82	206	581	992	141	132	163
MIN	24	17	21	22	29	30	79	124	157	90	85	131
AC-FT	2170	1410	1350	1520	1730	4660	7530	23960	29300	5950	5740	8310

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1997, BY WATER YEAR (WY)

MEAN	42.7	25.6	14.5	20.2	26.0	57.8	188	369	328	78.6	95.3	98.1
MAX	50.1	27.5	22.0	24.6	31.2	75.8	249	390	492	96.7	153	140
(WY)	1996	1996	1997	1997	1997	1997	1996	1997	1997	1997	1996	1997
MIN	35.3	23.7	7.07	15.8	21.0	39.8	127	349	164	60.4	39.3	51.2
(WY)	1997	1997	1996	1996	1996	1996	1997	1996	1996	1996	1995	1995

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1995 - 1997	
ANNUAL TOTAL	37746		47205			
ANNUAL MEAN	103		129		116	
HIGHEST ANNUAL MEAN					129	1997
LOWEST ANNUAL MEAN					103	1996
HIGHEST DAILY MEAN	627	May 19	992	Jun 3	992	Jun 3 1997
LOWEST DAILY MEAN	10	Jan 16	17	Nov 7	2.8	Dec 3 1995
ANNUAL SEVEN-DAY MINIMUM	11	Jan 10	21	Nov 7	3.4	Dec 2 1995
INSTANTANEOUS PEAK FLOW			1030	Jun 2	1030	Jun 2 1997
INSTANTANEOUS PEAK STAGE			8.39	Jun 2	8.39	Jun 2 1997
ANNUAL RUNOFF (AC-FT)	74870		93630		84300	
10 PERCENT EXCEEDS	269		337		270	
50 PERCENT EXCEEDS	50		82		57	
90 PERCENT EXCEEDS	21		22		21	

e-Estimated.

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: Jan. 14-28, Feb. 11-25, June 24 to July 10, and July 24 to Aug. 13, which are rated fair.

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, 11.5 mg/L, Mar. 19, 1997; minimum, 4.9 mg/L, July 31, 1996.

EXTREMES FOR CURRENT PERIOD.--
SPECIFIC CONDUCTANCE: Maximum, 1740 microsiemens, Nov. 6; minimum, 281 microsiemens, June 10.
WATER TEMPERATURE: Maximum, 19.2°C, June 24; minimum, 1.5°C, Dec. 17.
DISSOLVED OXYGEN: Maximum, 11.5 mg/L, Mar. 19; minimum, 5.1 mg/L, Oct. 31.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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										
17...	1515	25	544	8.6	11.0	0.8	8.6	240	62	20
NOV										
13...	1410	25	726	8.1	7.0	2.2	10.6	330	83	29
DEC										
10...	1315	23	610	7.9	4.0	4.7	9.6	270	68	24
JAN										
28...	1130	25	618	7.3	3.0	0.4	8.4	270	69	24
FEB										
26...	1115	31	618	7.3	3.5	0.3	8.2	280	72	24
MAR										
18...	1330	82	654	8.3	3.5	1.8	10.8	290	72	26
APR										
16...	1545	106	658	8.0	4.5	1.3	10.8	280	70	26
MAY										
14...	1000	462	718	8.4	6.0	3.2	10.6	340	82	32
JUN										
02...	1600	1040	393	8.4	14.5	6.8	10.3	160	43	13
JUL										
10...	1415	90	507	8.6	10.0	2.9	9.3	200	53	17
AUG										
13...	1000	97	517	8.2	9.5	4.3	8.7	210	57	18
SEP										
03...	1500	130	535	8.0	10.0	1.1	9.0	220	58	19

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)	ALKA-LINITY 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									
17...	22	17	0.6	2.4	117	160	2.2	0.2	8.6
NOV									
13...	30	17	0.7	0.5	125	250	2.7	0.2	8.4
DEC									
10...	25	17	0.7	2.7	121	190	2.7	0.2	9.1
JAN									
28...	24	16	0.6	2.5	124	190	2.4	0.2	9.2
FEB									
26...	23	15	0.6	2.5	126	190	2.5	0.2	9.1
MAR									
18...	24	15	0.6	2.7	130	210	2.8	0.2	8.3
APR									
16...	27	17	0.7	2.8	130	210	3.0	0.2	8.9
MAY									
14...	34	18	0.8	3.2	137	260	3.5	0.2	8.8
JUN									
02...	13	15	0.5	2.0	97	93	1.6	0.1	8.4
JUL									
10...	18	16	0.5	2.2	105	140	2.1	0.2	8.0
AUG									
13...	18	15	0.5	2.0	105	140	1.9	0.2	8.8
SEP									
03...	18	15	0.5	2.2	107	150	0.4	0.2	9.0

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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									
17...	364	348	0.50	24.9	4	0.03	0.12	0.04	0.26
NOV									
13...	498	480	0.68	33.1	--	0.01	0.21	0.07	0.43
DEC									
10...	415	395	0.56	25.4	<1	0.01	0.22	0.03	0.27
JAN									
28...	419	397	0.57	28.3	--	<0.01	0.20	<0.02	0.30
FEB									
26...	423	400	0.58	35.1	--	0.01	0.25	<0.02	0.30
MAR									
18...	467	426	0.64	103	--	<0.01	0.36	<0.02	0.60
APR									
16...	455	424	0.62	130	--	<0.01	0.30	0.02	0.38
MAY									
14...	538	508	0.73	671	--	<0.01	0.24	0.05	0.25
JUN									
02...	255	233	0.35	719	--	<0.01	0.12	<0.01	0.41
JUL									
10...	341	304	0.46	82.9	3	<0.01	0.23	<0.01	0.33
AUG									
13...	348	312	0.47	91.0	--	<0.01	0.25	<0.01	0.39
SEP									
03...	357	326	0.49	125	3	<0.01	0.34	<0.01	0.31

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									
17...	0.26	0.3	0.3	0.42	<0.01	<0.01	<0.01	5.7	0.1
NOV									
13...	0.33	0.5	0.4	0.71	<0.01	<0.01	<0.01	--	--
DEC									
10...	0.37	0.3	0.4	0.52	<0.01	<0.01	<0.01	6.4	0.1
JAN									
28...	--	0.3	0.2	0.50	<0.01	<0.01	<0.01	--	--
FEB									
26...	--	0.3	0.3	0.55	0.08	<0.01	0.01	--	--
MAR									
18...	--	0.6	0.3	0.96	0.06	<0.01	<0.01	--	--
APR									
16...	0.28	0.4	0.3	0.70	<0.01	<0.01	<0.01	--	--
MAY									
14...	0.30	0.3	0.4	0.55	0.01	<0.01	<0.01	--	--
JUN									
02...	--	0.4	<0.2	0.54	0.01	<0.01	<0.01	--	--
JUL									
10...	--	0.3	0.3	0.57	<0.01	<0.01	0.01	6.7	<0.2
AUG									
13...	--	0.4	0.2	0.65	0.01	<0.01	0.01	--	--
SEP									
03...	--	0.3	0.3	0.65	<0.01	<0.01	<0.01	6.9	<0.2

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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												
17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
13...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
10...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
28...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
26...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
18...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
16...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
14...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
02...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
10...	110	<1	<1	<100	50	<10	36.1	<1	<1	<1	<1	<1
AUG												
13...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
03...	60	<1	<1	<100	47	<10	37.3	<1	<1	<1	<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											
17...	--	--	90	18	--	--	--	50	33	--	--
NOV											
13...	--	--	200	18	--	--	--	220	200	--	--
DEC											
10...	--	--	60	13	--	--	--	70	58	--	--
JAN											
28...	--	--	30	7	--	--	--	30	18	--	--
FEB											
26...	--	--	20	4	--	--	--	20	6	--	--
MAR											
18...	--	--	80	<3	--	--	--	10	4	--	--
APR											
16...	--	--	40	4	--	--	--	<10	1	--	--
MAY											
14...	--	--	160	5	--	--	--	80	<1	--	--
JUN											
02...	--	--	360	11	--	--	--	10	2	--	--
JUL											
10...	3	<1	90	16	<1	<1	20	20	2	<0.1	<0.1
AUG											
13...	--	--	140	12	--	--	--	20	8	--	--
SEP											
03...	<1	<1	90	11	<1	<1	20	20	3	<0.1	<0.1

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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											
17...	--	--	--	--	--	--	--	--	--	--	--
NOV											
13...	--	--	--	--	--	--	--	--	--	--	--
DEC											
10...	--	--	--	--	--	--	--	--	--	--	--
JAN											
28...	--	--	--	--	--	--	--	--	--	--	--
FEB											
26...	--	--	--	--	--	--	--	--	--	--	--
MAR											
18...	--	--	--	--	--	--	--	--	--	--	--
APR											
16...	--	--	--	--	--	--	--	--	--	--	--
MAY											
14...	--	--	--	--	--	--	--	--	--	--	--
JUN											
02...	--	--	--	--	--	--	--	--	--	--	--
JUL											
10...	3	1.9	3	2	4	3	<1	<1	470	<10	<3
AUG											
13...	--	--	--	--	--	--	--	--	--	--	--
SEP											
03...	2	1.8	2	2	4	3	<1	<1	500	<10	4

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	527	519	523	588	586	587	602	600	601	613	612	613
2	531	521	525	589	587	588	602	600	601	614	612	613
3	534	530	532	589	586	588	602	600	601	615	610	613
4	533	520	526	592	588	589	602	600	601	614	611	613
5	528	522	523	1730	570	900	604	600	602	615	612	613
6	534	526	529	1740	1130	1560	604	601	603	616	614	615
7	534	530	532	1310	693	1010	603	601	602	616	612	615
8	533	529	530	---	---	---	603	601	602	616	614	615
9	535	528	531	---	---	---	604	601	603	616	614	615
10	---	---	---	---	---	---	611	603	606	615	614	615
11	---	---	---	---	---	---	614	609	611	615	611	614
12	---	---	---	---	---	---	610	607	608	614	611	613
13	---	---	---	---	---	---	613	609	611	614	613	613
14	---	---	---	743	733	739	613	608	610	615	612	613
15	---	---	---	733	669	691	610	607	608	614	611	613
16	---	---	---	673	638	655	609	607	608	614	608	611
17	---	---	---	673	639	651	611	608	609	612	608	611
18	555	552	553	700	673	685	611	608	610	613	611	612
19	576	554	560	702	675	688	612	610	611	613	611	612
20	573	566	568	675	657	666	611	609	610	612	611	612
21	568	566	567	701	657	670	610	609	609	612	611	612
22	572	567	569	740	675	713	610	609	609	612	611	612
23	574	571	572	675	640	652	610	608	609	612	611	612
24	578	574	575	651	641	645	610	608	609	612	611	612
25	582	577	581	699	651	670	610	608	609	612	611	612
26	582	578	580	731	699	718	611	609	610	612	611	612
27	583	580	581	747	631	711	611	610	610	612	610	611
28	584	581	582	631	603	609	612	610	611	614	610	611
29	590	583	586	603	599	601	613	611	612	612	611	611
30	590	588	589	602	599	601	613	611	612	---	---	---
31	589	581	586	---	---	---	613	612	612	612	611	611
MONTH	---	---	---	---	---	---	614	600	607	---	---	---

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

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	612	611	611	---	---	---	656	639	648	661	599	621
2	612	610	611	---	---	---	650	644	646	619	603	606
3	612	610	611	---	---	---	654	647	651	618	605	611
4	612	610	611	---	---	---	652	628	643	659	607	626
5	612	610	611	---	---	---	633	621	627	630	615	619
6	612	609	611	---	---	---	650	620	639	639	607	619
7	---	---	---	---	---	---	657	645	651	629	594	608
8	---	---	---	---	---	---	663	643	654	719	604	658
9	---	---	---	---	---	---	670	642	655	710	659	689
10	---	---	---	---	---	---	642	622	634	1070	666	795
11	---	---	---	---	---	---	630	617	622	874	744	807
12	615	614	614	---	---	---	630	623	627	789	736	766
13	615	614	615	---	---	---	633	625	628	769	725	749
14	---	---	---	---	---	---	636	630	633	756	712	737
15	616	614	615	---	---	---	640	630	634	867	714	789
16	615	613	614	---	---	---	641	630	635	867	810	838
17	615	613	614	---	---	---	642	636	639	844	795	817
18	615	611	614	---	---	---	645	638	640	802	757	786
19	615	613	614	630	614	625	675	611	646	784	724	754
20	614	613	614	630	613	624	632	600	615	766	704	735
21	615	613	614	628	615	624	622	556	589	734	691	713
22	---	---	---	627	623	625	642	557	600	716	664	681
23	---	---	---	626	620	623	687	572	629	697	653	671
24	616	614	615	628	624	626	670	575	627	666	612	651
25	---	---	---	631	625	628	641	576	614	636	607	621
26	---	---	---	641	627	634	604	584	592	616	601	610
27	---	---	---	647	633	642	645	587	610	616	587	605
28	---	---	---	652	633	644	655	603	622	624	593	611
29	---	---	---	646	638	642	642	604	624	629	605	617
30	---	---	---	652	638	646	661	603	625	626	384	570
31	---	---	---	650	641	645	---	---	---	384	377	379
MONTH	---	---	---	---	---	---	687	556	630	1070	377	676

		JUNE			JULY			AUGUST			SEPTEMBER	
1	378	375	377	444	395	430	495	482	489	527	498	515
2	377	373	376	471	408	453	502	487	495	527	493	514
3	375	369	371	486	408	454	506	478	487	528	504	520
4	370	349	363	477	442	460	510	482	496	542	504	526
5	360	343	352	495	466	478	504	482	493	536	517	528
6	350	336	344	492	468	480	509	487	495	541	510	532
7	346	337	341	503	454	483	503	473	491	539	511	529
8	342	324	336	502	470	486	502	480	492	544	526	535
9	330	293	316	503	465	484	509	477	496	547	523	532
10	355	281	310	494	474	482	511	485	496	543	524	531
11	342	296	305	509	486	495	502	468	482	553	530	539
12	307	296	298	503	452	488	500	470	482	549	519	533
13	319	297	302	511	451	484	499	471	491	539	523	534
14	303	296	298	501	470	485	508	461	487	557	516	537
15	299	296	297	502	482	492	508	481	496	550	519	536
16	297	296	297	502	475	489	514	482	502	565	515	534
17	298	294	296	499	474	492	516	481	497	552	516	538
18	296	294	295	505	474	491	510	484	498	555	527	542
19	301	294	297	505	475	490	515	486	503	559	532	543
20	302	296	298	504	472	490	526	487	504	563	538	551
21	298	296	297	500	478	487	526	489	499	568	546	556
22	316	296	303	511	485	494	523	500	513	560	544	553
23	303	297	299	508	474	490	503	494	499	559	550	555
24	302	299	300	504	480	491	525	496	514	560	554	557
25	302	301	301	507	483	493	522	488	506	564	558	561
26	345	301	329	502	472	488	534	486	509	564	552	559
27	396	341	367	509	481	493	518	485	503	571	552	562
28	404	383	394	513	482	493	526	496	512	568	553	560
29	420	390	410	496	480	490	716	501	525	573	559	567
30	450	405	424	497	479	488	526	501	514	568	562	566
31	---	---	---	506	479	491	528	488	511	---	---	---
MONTH	450	281	330	513	395	483	716	461	499	573	493	542

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	12.8	11.7	12.1	8.9	7.8	8.2	4.9	4.0	4.2	3.0	2.4	2.6
2	13.1	11.7	12.2	8.9	7.6	8.1	4.3	3.3	3.8	3.6	2.4	2.8
3	12.7	12.0	12.2	8.4	7.6	7.9	4.2	3.3	3.6	3.0	2.4	2.7
4	12.9	12.0	12.2	8.8	7.6	8.0	4.0	2.8	3.3	3.4	1.7	2.5
5	12.9	11.7	12.2	8.2	7.4	7.7	3.6	2.8	3.2	3.0	2.0	2.4
6	12.8	11.5	12.0	9.4	8.2	8.6	3.6	2.9	3.2	3.2	1.9	2.4
7	12.6	11.4	12.0	8.6	5.0	7.1	3.6	2.7	3.0	2.8	1.9	2.3
8	12.7	11.5	12.0	---	---	---	3.8	2.7	3.0	3.0	2.1	2.4
9	12.7	11.6	12.0	---	---	---	3.8	2.5	3.1	3.0	2.3	2.6
10	---	---	---	---	---	---	4.2	3.1	3.5	3.2	2.5	2.8
11	---	---	---	---	---	---	3.8	3.0	3.3	3.2	1.7	2.5
12	---	---	---	---	---	---	3.9	3.0	3.2	2.9	1.6	2.2
13	---	---	---	7.2	---	---	4.1	2.8	3.2	3.2	2.0	2.4
14	---	---	---	7.2	6.1	6.4	3.0	2.1	2.5	3.0	2.0	2.4
15	---	---	---	6.3	5.4	5.9	3.0	1.9	2.4	3.4	2.1	2.6
16	---	---	---	6.0	5.2	5.7	2.7	1.7	2.3	3.1	2.0	2.4
17	---	---	---	5.6	5.0	5.3	2.5	1.5	1.9	3.1	2.1	2.4
18	11.4	10.0	10.5	6.5	5.4	5.8	2.5	1.6	2.0	3.3	2.3	2.7
19	11.4	9.7	10.4	6.6	5.5	5.9	2.9	2.1	2.4	3.3	2.2	2.5
20	10.3	9.4	9.8	6.5	5.4	5.8	3.2	2.0	2.4	3.1	2.2	2.6
21	10.5	9.2	9.6	6.4	5.2	5.6	2.9	2.5	2.7	3.2	2.4	2.7
22	10.0	9.0	9.3	6.5	5.4	5.8	3.0	2.3	2.6	3.4	2.4	2.8
23	10.1	8.9	9.3	6.1	5.3	5.6	3.2	2.3	2.6	3.8	2.5	2.8
24	9.8	8.7	9.1	6.0	5.2	5.5	2.8	2.2	2.5	3.4	2.3	2.7
25	9.7	8.8	9.0	5.6	5.2	5.3	3.3	2.1	2.6	3.3	2.3	2.7
26	9.4	8.2	8.7	5.7	5.0	5.3	3.3	2.4	2.7	3.4	2.8	3.0
27	9.4	8.2	8.6	5.9	4.6	5.1	3.1	2.5	2.7	3.5	2.3	2.8
28	9.2	8.1	8.5	5.3	4.3	4.6	3.4	2.4	2.7	3.2	2.1	2.5
29	8.6	8.0	8.3	4.8	4.1	4.4	3.5	2.3	2.7	3.5	2.3	2.7
30	9.2	7.9	8.2	4.9	3.9	4.2	3.1	2.4	2.6	---	---	---
31	9.1	7.7	8.2	---	---	---	3.2	2.3	2.7	3.6	2.4	2.9
MONTH	---	---	---	---	---	---	4.9	1.5	2.9	---	---	---

		FEBRUARY			MARCH			APRIL			MAY	
1	3.9	2.6	3.0	3.8	2.4	2.9	4.4	3.5	3.9	5.8	4.8	5.3
2	3.3	2.5	2.8	3.9	2.5	3.0	4.3	3.3	3.7	6.0	5.6	5.7
3	3.4	2.3	2.7	3.2	2.4	2.7	4.2	3.3	3.7	6.7	5.6	5.9
4	3.4	2.3	2.7	3.1	2.3	2.6	4.4	3.4	3.9	6.5	5.7	6.1
5	3.6	2.4	2.8	3.0	1.9	2.4	4.3	3.9	4.1	6.4	5.9	6.1
6	3.5	2.4	2.8	2.9	2.0	2.4	4.0	3.4	3.7	6.8	6.0	6.4
7	---	---	---	3.0	2.1	2.4	4.1	3.3	3.7	8.6	5.9	7.1
8	---	---	---	3.0	2.2	2.6	4.2	3.4	3.8	7.8	5.9	6.8
9	---	---	---	3.1	2.3	2.6	4.3	3.2	3.8	6.4	5.7	6.0
10	---	---	---	3.2	2.2	2.6	4.4	3.3	3.8	6.2	5.6	5.8
11	---	---	---	3.2	2.2	2.6	3.9	3.2	3.4	7.2	5.3	6.0
12	3.9	2.4	2.9	3.2	2.3	2.7	3.9	3.1	3.4	6.5	5.6	6.0
13	3.7	2.4	2.8	3.4	2.3	2.7	4.0	3.1	3.5	6.6	5.6	6.1
14	---	---	---	3.0	2.4	2.6	4.2	3.2	3.6	6.4	5.7	6.0
15	3.7	2.6	3.0	3.4	2.6	2.8	4.1	3.5	3.7	6.3	4.4	5.4
16	3.7	2.3	2.8	3.5	2.6	2.9	4.4	3.5	3.8	4.9	4.4	4.6
17	3.9	2.4	2.9	3.2	2.5	2.8	4.3	3.4	3.8	5.0	4.6	4.8
18	3.3	2.5	2.9	3.5	2.6	2.9	4.2	3.4	3.7	5.2	4.9	5.1
19	3.7	2.3	2.8	3.5	2.5	2.9	4.3	3.5	3.8	5.8	4.9	5.3
20	3.4	2.5	2.8	3.5	2.6	3.0	4.9	4.0	4.4	5.8	5.2	5.5
21	3.6	2.3	2.7	3.6	2.7	3.0	5.5	4.6	4.9	5.9	5.5	5.7
22	---	---	---	3.7	2.7	3.1	5.4	4.1	4.8	6.4	5.5	6.1
23	---	---	---	3.8	2.8	3.2	5.2	4.1	4.7	6.4	5.8	6.2
24	3.7	2.3	2.8	3.6	2.7	3.0	5.1	4.0	4.5	6.8	6.1	6.4
25	---	---	---	3.7	2.6	3.1	5.7	4.4	5.0	7.0	6.5	6.7
26	3.9	2.3	2.9	4.0	2.9	3.3	6.3	5.3	5.8	7.0	6.7	6.9
27	4.1	2.4	3.0	3.8	3.0	3.3	5.9	5.1	5.6	7.2	6.7	6.9
28	3.2	2.4	2.7	4.1	3.0	3.5	5.8	4.9	5.4	7.2	6.9	7.0
29	---	---	---	4.0	3.2	3.5	5.6	5.0	5.3	7.1	6.9	7.0
30	---	---	---	4.3	3.2	3.7	5.5	4.8	5.3	12.3	6.9	8.4
31	---	---	---	4.3	3.3	3.7	---	---	---	15.3	12.2	13.3
MONTH	---	---	---	4.3	1.9	2.9	6.3	3.1	4.2	15.3	4.4	6.3

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.0	12.0	13.1	11.8	9.4	10.9	10.0	8.9	9.3	9.9	9.5	9.6
2	15.2	12.5	13.9	11.3	9.2	10.2	9.7	8.8	9.2	10.2	9.5	9.8
3	15.9	13.2	14.3	11.2	9.4	10.2	10.0	8.8	9.3	10.1	9.3	9.7
4	14.8	13.0	13.8	11.0	9.3	10.1	9.6	8.9	9.2	10.2	9.5	9.8
5	14.0	11.1	12.8	10.9	9.0	9.9	9.5	8.9	9.2	10.3	9.4	9.7
6	14.9	11.1	13.1	10.1	8.8	9.4	9.6	9.1	9.4	9.9	9.4	9.6
7	15.4	13.2	14.0	10.2	8.7	9.3	10.1	9.0	9.5	10.2	9.5	9.8
8	14.2	11.8	13.3	9.7	8.5	9.0	9.9	8.7	9.3	10.2	9.5	9.8
9	13.7	11.5	12.7	9.8	8.5	9.1	9.7	8.7	9.1	10.3	9.4	9.8
10	11.5	9.5	10.9	9.8	8.6	9.0	10.0	9.0	9.3	10.5	9.6	10.0
11	13.4	9.8	12.2	9.2	8.4	8.8	10.6	9.3	9.9	10.4	9.5	9.9
12	15.1	11.4	13.5	9.5	8.3	8.8	10.7	9.7	10.1	10.5	9.7	10.0
13	13.0	10.8	12.1	9.5	8.3	8.9	10.8	9.5	9.9	10.4	9.5	10.0
14	15.3	12.4	13.7	9.5	8.2	8.9	10.2	9.0	9.6	10.5	9.7	10.1
15	14.6	13.4	14.0	9.6	8.2	8.8	10.0	8.8	9.4	10.8	9.8	10.1
16	15.9	14.0	14.8	9.4	8.3	8.8	9.8	8.7	9.2	11.3	9.8	10.4
17	15.4	14.4	14.9	9.6	8.5	8.9	9.8	9.1	9.4	10.7	9.9	10.3
18	15.6	14.7	15.2	9.5	8.6	8.9	9.7	8.9	9.2	10.9	10.0	10.5
19	15.4	13.3	14.6	9.4	8.7	9.0	9.5	8.9	9.1	11.0	10.0	10.5
20	15.6	13.3	14.6	9.6	8.7	9.0	9.7	9.0	9.3	11.0	10.0	10.4
21	16.6	14.8	15.6	9.7	8.5	9.0	10.2	9.0	9.5	10.6	10.3	10.4
22	17.2	11.4	15.0	9.6	8.4	9.0	9.9	8.9	9.3	10.7	10.4	10.5
23	17.3	13.7	16.1	9.7	8.8	9.1	10.2	9.0	9.5	10.8	10.3	10.5
24	19.2	16.2	17.5	9.7	8.8	9.1	9.9	8.9	9.4	11.1	10.2	10.6
25	18.6	17.4	17.9	9.7	8.6	9.1	10.1	9.2	9.5	10.9	10.5	10.7
26	17.5	15.8	16.8	9.6	8.6	9.1	9.8	9.3	9.5	11.0	10.6	10.8
27	16.4	13.7	14.9	9.6	8.8	9.1	10.1	9.3	9.6	11.1	10.6	10.9
28	13.9	10.6	12.8	9.6	8.6	9.1	10.0	9.0	9.5	11.3	10.3	10.9
29	12.9	10.8	12.1	9.6	8.9	9.2	9.9	9.2	9.5	11.2	10.5	10.9
30	12.6	9.3	11.3	9.9	8.9	9.2	9.8	9.0	9.4	11.2	10.8	11.0
31	---	---	---	9.6	8.8	9.1	9.9	9.4	9.6	---	---	---
MONTH	19.2	9.3	14.1	11.8	8.2	9.2	10.8	8.7	9.4	11.3	9.3	10.2

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.5	6.6	7.3	---	---	---	9.4	7.0	7.7	8.3	7.2	7.6
2	8.5	6.4	7.1	---	---	---	9.1	7.0	7.7	8.3	7.1	7.5
3	8.2	6.3	7.0	---	---	---	8.9	7.1	7.6	8.0	7.1	7.4
4	8.0	6.1	6.8	---	---	---	9.1	7.2	7.8	8.7	7.5	8.0
5	8.0	6.1	6.8	---	---	---	8.9	7.3	7.8	9.4	7.7	8.3
6	8.3	6.0	7.0	---	---	---	8.9	7.3	7.8	9.3	7.9	8.5
7	8.0	6.2	6.8	---	---	---	9.2	7.3	7.9	9.3	7.8	8.4
8	8.2	6.1	6.8	---	---	---	8.9	7.4	7.9	9.1	7.8	8.2
9	7.8	6.0	6.9	---	---	---	8.9	7.2	7.8	8.8	7.5	8.0
10	---	---	---	---	---	---	9.6	7.1	8.0	8.7	7.4	7.9
11	---	---	---	---	---	---	10.9	8.2	8.9	8.7	7.5	7.9
12	---	---	---	---	---	---	10.3	8.4	8.9	8.5	7.3	7.8
13	---	---	---	---	---	---	10.3	8.3	8.8	8.4	7.2	7.6
14	---	---	---	10.5	8.6	9.1	10.0	8.1	8.7	8.2	7.2	7.7
15	---	---	---	10.3	8.5	9.0	9.8	8.1	8.7	9.2	7.9	8.5
16	---	---	---	10.4	8.6	9.2	9.8	8.4	8.8	9.0	7.7	8.3
17	---	---	---	10.5	8.7	9.3	9.9	8.1	8.8	8.7	7.7	8.1
18	9.7	7.6	8.3	10.8	8.6	9.3	9.9	8.1	8.7	8.8	7.9	8.2
19	9.4	7.5	8.1	10.5	8.6	9.1	9.0	7.6	8.3	8.8	7.9	8.2
20	9.6	7.5	8.2	10.6	8.2	9.0	8.8	7.5	7.9	8.9	7.9	8.3
21	9.6	7.7	8.3	10.3	6.8	8.5	8.6	7.5	7.9	8.6	7.8	8.1
22	9.7	7.7	8.4	9.9	6.2	7.9	8.8	7.6	8.0	8.7	7.5	8.0
23	9.6	7.6	8.3	10.1	8.2	8.8	8.7	7.6	8.0	9.0	7.2	7.9
24	9.4	7.3	8.0	10.7	8.4	9.1	8.6	7.5	7.9	8.7	7.7	8.1
25	9.3	7.2	7.8	10.3	8.5	9.1	8.5	7.5	7.9	8.6	7.5	8.0
26	8.8	7.2	7.7	10.3	8.4	9.0	8.4	7.4	7.7	8.5	7.1	7.6
27	9.1	6.8	7.6	10.8	7.3	8.6	8.6	7.4	7.8	8.2	7.0	7.4
28	9.0	6.8	7.4	9.2	7.1	7.7	8.6	7.4	7.8	---	---	---
29	8.8	6.7	7.5	8.9	7.0	7.5	8.5	7.4	7.8	---	---	---
30	8.9	6.8	7.4	9.3	7.0	7.7	8.6	7.5	7.9	---	---	---
31	8.9	5.1	7.0	---	---	---	8.5	7.3	7.7	9.1	7.9	8.3
MONTH	---	---	---	---	---	---	10.9	7.0	8.1	---	---	---

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

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	9.0	7.7	8.2	8.5	7.2	7.7	11.1	9.9	10.4	10.6	10.4	10.5
2	8.9	7.5	8.0	8.5	7.1	7.6	11.0	10.1	10.5	10.5	10.4	10.5
3	8.8	7.5	7.9	10.6	7.1	9.1	10.9	10.2	10.5	10.6	10.4	10.5
4	8.6	7.4	7.9	10.7	10.2	10.5	10.7	9.9	10.2	10.7	10.4	10.6
5	8.7	7.3	7.8	10.9	10.5	10.7	10.9	10.0	10.4	10.7	10.5	10.6
6	8.8	7.2	7.9	10.9	10.4	10.7	11.0	10.2	10.5	10.6	10.5	10.5
7	---	---	---	10.8	10.4	10.6	10.9	10.1	10.4	10.6	10.0	10.4
8	---	---	---	10.8	10.3	10.5	10.8	10.1	10.4	10.7	10.2	10.5
9	---	---	---	10.9	10.5	10.7	10.7	9.9	10.3	10.8	10.6	10.7
10	---	---	---	10.9	10.4	10.7	10.6	9.8	10.2	10.7	10.6	10.7
11	9.0	7.8	8.6	10.9	10.4	10.6	10.7	10.0	10.3	10.8	10.3	10.6
12	9.0	7.7	8.2	10.8	10.3	10.6	10.7	9.9	10.3	10.7	10.5	10.6
13	9.0	7.7	8.2	10.8	10.3	10.5	10.7	10.0	10.3	10.6	10.4	10.5
14	8.9	7.5	8.2	10.9	10.2	10.5	10.8	10.0	10.3	10.7	10.5	10.6
15	9.0	7.7	8.1	10.8	10.2	10.5	10.7	10.1	10.3	10.9	10.6	10.8
16	8.9	7.7	8.1	10.8	10.2	10.5	10.8	10.1	10.5	11.0	10.8	10.9
17	8.6	7.5	7.9	10.9	10.3	10.5	11.0	10.5	10.7	10.9	10.8	10.9
18	8.6	7.6	8.0	11.2	10.4	10.8	11.0	10.4	10.7	10.8	10.7	10.8
19	8.5	7.1	7.6	11.5	10.8	11.1	10.8	10.3	10.5	10.8	10.6	10.7
20	8.3	7.0	7.6	11.3	10.5	10.9	10.6	10.1	10.4	10.8	10.6	10.7
21	8.0	6.9	7.3	11.2	10.4	10.7	10.4	10.1	10.2	10.7	10.6	10.7
22	8.3	6.8	7.4	11.2	10.4	10.7	10.5	10.2	10.3	10.7	10.5	10.6
23	8.0	6.8	7.4	11.2	10.3	10.7	10.5	10.2	10.4	10.6	10.4	10.6
24	8.1	7.2	7.7	11.1	10.3	10.6	10.6	10.3	10.5	10.5	10.3	10.4
25	8.4	7.3	7.8	11.4	10.3	10.8	10.7	10.4	10.5	10.4	10.3	10.4
26	8.5	7.3	7.8	11.2	10.2	10.6	10.6	10.4	10.5	10.4	10.3	10.4
27	8.6	7.2	7.8	11.0	10.2	10.5	10.6	10.5	10.5	10.4	10.2	10.3
28	8.3	7.2	7.6	11.3	10.2	10.6	10.6	10.5	10.5	10.4	9.7	10.1
29	---	---	---	11.3	10.1	10.6	10.6	10.5	10.5	9.8	9.7	9.7
30	---	---	---	11.2	9.9	10.5	10.6	10.5	10.6	9.8	8.7	9.5
31	---	---	---	11.1	9.9	10.4	---	---	---	9.6	8.8	9.3
MONTH	---	---	---	11.5	7.1	10.4	11.1	9.8	10.4	11.0	8.7	10.5

		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.3	9.6	10.0	10.3	8.9	9.4	9.5	8.1	8.6	8.7	8.3	8.5
2	10.4	9.8	10.1	9.8	9.0	9.3	9.0	8.0	8.4	8.7	8.3	8.4
3	10.2	9.8	10.1	9.9	8.5	9.2	9.4	8.1	8.7	8.7	8.1	8.5
4	10.4	9.9	10.2	9.7	8.3	9.0	9.5	8.2	8.8	8.9	8.6	8.7
5	10.5	10.1	10.2	9.8	8.4	9.0	9.1	8.2	8.6	8.9	8.5	8.7
6	10.5	9.6	10.0	9.8	8.4	8.9	8.9	8.2	8.5	8.8	8.5	8.6
7	9.9	9.4	9.7	9.9	8.3	9.0	9.3	8.2	8.7	8.8	8.4	8.6
8	10.0	9.6	9.8	10.0	8.5	9.1	9.3	8.5	8.8	8.8	8.4	8.6
9	10.1	9.7	9.9	10.1	8.5	9.1	9.3	8.3	8.7	8.8	8.5	8.6
10	10.7	10.1	10.2	10.0	8.6	9.1	9.3	8.4	8.8	8.7	8.3	8.5
11	10.7	9.7	10.1	9.9	8.6	9.0	9.3	8.5	8.8	8.6	8.3	8.4
12	9.9	9.4	9.7	9.9	8.5	9.1	9.3	8.5	8.8	8.6	8.2	8.4
13	10.1	9.6	9.8	10.0	8.6	9.2	9.3	8.3	8.6	8.7	8.2	8.5
14	9.6	9.1	9.4	10.0	8.6	9.2	8.7	8.3	8.5	8.7	8.2	8.4
15	9.4	9.1	9.2	9.8	8.4	9.1	8.8	8.4	8.6	8.6	8.1	8.3
16	9.2	8.8	9.0	9.7	8.4	8.9	8.8	8.4	8.5	8.6	8.0	8.3
17	9.1	8.8	8.9	9.7	8.3	8.8	8.9	8.4	8.6	8.5	8.0	8.3
18	9.0	8.7	8.8	9.6	8.3	8.7	8.8	8.4	8.5	8.4	7.8	8.1
19	9.2	8.7	8.9	9.6	8.3	8.8	8.8	8.4	8.6	8.2	7.8	7.9
20	9.1	8.7	8.8	9.6	8.3	8.8	8.8	8.3	8.5	8.4	8.0	8.1
21	8.8	8.3	8.6	9.8	8.4	8.9	8.7	8.3	8.4	8.5	7.9	8.1
22	9.3	8.3	8.7	9.8	8.3	9.0	8.6	8.1	8.4	8.4	7.9	8.0
23	8.8	8.2	8.5	9.9	7.8	8.6	8.6	8.0	8.3	8.4	8.0	8.1
24	8.7	7.8	8.2	8.8	7.7	8.2	8.5	8.0	8.3	8.6	8.0	8.3
25	8.7	7.9	8.3	9.0	7.5	8.3	8.4	7.9	8.1	8.7	8.3	8.4
26	8.8	8.0	8.3	9.0	7.5	8.1	8.5	7.9	8.2	8.6	8.1	8.3
27	9.0	8.1	8.6	8.8	7.7	8.1	8.2	7.8	8.0	8.7	8.0	8.3
28	9.3	8.5	9.0	9.1	7.8	8.3	8.4	7.9	8.1	8.4	7.9	8.2
29	9.4	8.7	9.1	9.1	7.8	8.3	8.4	8.0	8.1	8.5	8.0	8.2
30	9.6	8.8	9.3	9.1	7.9	8.3	8.6	8.0	8.3	8.5	8.0	8.2
31	---	---	---	9.3	8.0	8.6	8.8	8.4	8.6	---	---	---
MONTH	10.7	7.8	9.3	10.3	7.5	8.8	9.5	7.8	8.5	8.9	7.8	8.4

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 (revised) 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 record).

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	---	---	---	---	---	e.00	e.00	17	.52	.96	5.1
2	17	---	---	---	---	---	e.00	e.00	15	.44	.95	4.3
3	17	---	---	---	---	---	e.00	e.00	14	e.36	1.0	4.9
4	17	---	---	---	---	---	e.00	e.00	16	.43	e.29	3.5
5	17	---	---	---	---	---	e.00	e.00	16	.44	e.00	9.2
6	16	---	---	---	---	---	e.00	e.00	12	e.38	e.28	9.7
7	16	---	---	---	---	---	e.00	e.00	13	.40	e.12	9.1
8	15	---	---	---	---	---	e.00	e.00	16	.42	e.00	6.9
9	18	---	---	---	---	---	e.00	e.00	13	e.37	e.00	5.7
10	e20	---	---	---	---	---	e.00	e.00	9.1	1.5	e.00	4.0
11	e.00	---	---	---	---	---	e.00	e.00	6.7	2.6	e.00	3.4
12	e.00	---	---	---	---	---	e.00	e.00	1.4	1.9	e3.6	2.9
13	e.00	---	---	---	---	---	e.00	e.00	1.2	5.4	8.9	e.31
14	e.00	---	---	---	---	---	e.00	e.00	1.2	9.6	13	e.03
15	e.00	---	---	---	---	---	e.00	e.00	1.1	12	e7.3	e.00
16	e.00	---	---	---	---	---	e.00	e.00	.98	11	e.00	e3.4
17	e.00	---	---	---	---	---	e.00	e.00	.85	11	e.00	16
18	e.00	---	---	---	---	---	e.00	e.00	1.2	14	e.10	24
19	e.00	---	---	---	---	---	e.00	e.00	1.8	19	e.00	23
20	e.00	---	---	---	---	---	e.00	.00	1.8	17	e.00	23
21	e.00	---	---	---	---	---	e.00	.00	1.3	17	e.02	23
22	e.00	---	---	---	---	---	e.00	e8.6	1.4	18	e.52	24
23	e.00	---	---	---	---	---	e.00	15	1.2	18	7.8	26
24	e.00	---	---	---	---	---	e.00	12	1.0	19	11	26
25	e.00	---	---	---	---	---	e.00	4.8	.86	20	13	26
26	e.00	---	---	---	---	---	e.00	3.2	.84	15	14	30
27	e.00	---	---	---	---	---	e.00	2.1	5.7	4.8	12	35
28	e.00	---	---	---	---	---	e.00	2.0	10	.65	10	33
29	e.00	---	---	---	---	---	e.00	3.5	9.8	2.7	7.4	32
30	e.00	---	---	---	---	---	e.00	8.2	5.0	5.8	5.3	42
31	e.00	---	---	---	---	---	---	15	---	3.4	5.7	---
TOTAL	171.00	---	---	---	---	---	0.00	74.40	196.43	233.11	123.24	455.44
MEAN	5.52	---	---	---	---	---	.000	2.40	6.55	7.52	3.98	15.2
MAX	20	---	---	---	---	---	.00	15	17	20	14	42
MIN	.00	---	---	---	---	---	.00	.00	.84	.36	.00	.00
AC-FT	339	---	---	---	---	---	.00	148	390	462	244	903

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 record).

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e.00	e.00	14	12	3.6	1.9
2	---	---	---	---	---	---	e.00	e.00	20	11	3.5	1.9
3	---	---	---	---	---	---	e.00	e.00	23	9.8	e1.8	1.9
4	---	---	---	---	---	---	e.00	e.00	31	9.3	e.00	1.7
5	---	---	---	---	---	---	e.00	e.00	32	8.6	e.00	1.7
6	---	---	---	---	---	---	e.00	e.00	27	8.1	e.00	1.7
7	---	---	---	---	---	---	e.00	e.00	28	7.5	e.00	1.6
8	---	---	---	---	---	---	e.00	e.00	31	7.0	e.00	1.7
9	---	---	---	---	---	---	e.00	e.00	26	6.6	e1.3	1.7
10	---	---	---	---	---	---	e.00	e.00	24	6.2	4.3	1.7
11	---	---	---	---	---	---	e.00	e.00	25	5.8	4.0	1.7
12	---	---	---	---	---	---	e.00	e.00	27	5.4	3.8	1.6
13	---	---	---	---	---	---	e.00	e.00	25	4.8	3.9	1.5
14	---	---	---	---	---	---	e.00	e.00	26	5.2	3.6	1.4
15	---	---	---	---	---	---	e.00	e.00	25	5.1	3.1	1.4
16	---	---	---	---	---	---	e.00	e.00	23	4.9	3.1	1.4
17	---	---	---	---	---	---	e.00	e.00	25	4.7	3.1	1.4
18	---	---	---	---	---	---	e.00	e.00	28	5.1	3.1	1.3
19	---	---	---	---	---	---	e.00	e.00	27	4.9	2.9	1.4
20	---	---	---	---	---	---	e.00	e.00	20	4.8	2.7	1.6
21	---	---	---	---	---	---	e.00	e.00	17	4.4	2.6	1.5
22	---	---	---	---	---	---	e.00	e.58	20	4.2	2.4	1.4
23	---	---	---	---	---	---	e.00	e.93	15	4.0	2.2	1.3
24	---	---	---	---	---	---	e.00	2.5	12	3.8	2.1	1.2
25	---	---	---	---	---	---	e.00	2.8	10	3.7	2.1	1.2
26	---	---	---	---	---	---	e.00	2.3	12	2.9	2.1	1.2
27	---	---	---	---	---	---	e.00	2.0	16	e.35	2.0	1.2
28	---	---	---	---	---	---	e.00	2.1	14	e.92	2.0	e1.0
29	---	---	---	---	---	---	e.00	3.3	13	4.1	1.8	e.70
30	---	---	---	---	---	---	e.00	3.9	13	4.1	1.8	e.00
31	---	---	---	---	---	---	---	7.6	---	3.7	1.8	---
TOTAL	---	---	---	---	---	---	0.00	28.01	649	172.97	70.70	42.90
MEAN	---	---	---	---	---	---	.000	.90	21.6	5.58	2.28	1.43
MAX	---	---	---	---	---	---	.00	7.6	32	12	4.3	1.9
MIN	---	---	---	---	---	---	.00	.00	10	.35	.00	.00
AC-FT	---	---	---	---	---	---	.00	56	1290	343	140	85

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 record). 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	---	---	---	---	---	e.00	e.00	65	e.00	e.44	e.00
2	.00	---	---	---	---	---	e.00	e.00	77	e.03	e.00	e.00
3	.00	---	---	---	---	---	e.00	e.00	77	e.00	e.00	e.00
4	.00	---	---	---	---	---	e.00	e.00	98	e.06	e.00	e.00
5	.00	---	---	---	---	---	e.00	e.00	101	e.00	e.00	e.00
6	.00	---	---	---	---	---	e.00	e.00	92	e.29	e.97	e.00
7	.00	---	---	---	---	---	e.00	e.00	82	e.00	e.64	e.00
8	.00	---	---	---	---	---	e.00	e.00	88	e.00	e.00	e1.8
9	.00	---	---	---	---	---	e.00	e.00	59	e.00	e.00	4.2
10	---	---	---	---	---	---	e.00	e.00	49	e.00	e.00	e2.6
11	---	---	---	---	---	---	e.00	e.00	45	e.00	e.00	e.00
12	---	---	---	---	---	---	e.00	e.00	32	e.00	e.00	e.00
13	---	---	---	---	---	---	e.00	e.00	31	e.00	e.00	e.00
14	---	---	---	---	---	---	e.00	e.00	35	e.00	e.00	e.00
15	---	---	---	---	---	---	e.00	e.00	34	e.00	e.00	e.00
16	---	---	---	---	---	---	e.00	e.00	30	e.00	e.00	e.00
17	---	---	---	---	---	---	e.00	e.00	31	e.00	e.00	e.00
18	---	---	---	---	---	---	e.00	e.00	36	e.00	e.00	e.00
19	---	---	---	---	---	---	e.00	e.00	64	e.00	e.00	e.00
20	---	---	---	---	---	---	e.00	e.00	59	e.00	e.00	e.00
21	---	---	---	---	---	---	e.00	e.00	23	e.00	e.00	e.00
22	---	---	---	---	---	---	e.00	8.5	10	e.00	e.00	e.00
23	---	---	---	---	---	---	e.00	14	7.7	e.00	e.00	e.00
24	---	---	---	---	---	---	e.00	15	e2.3	e.00	e.00	e.00
25	---	---	---	---	---	---	e.00	12	e.00	e.00	e.00	e.00
26	---	---	---	---	---	---	e.00	8.2	e.00	e.00	e.00	e.00
27	---	---	---	---	---	---	e.00	5.7	e.00	e.00	e.00	e.00
28	---	---	---	---	---	---	e.00	4.8	e.00	e.10	e.00	e.00
29	---	---	---	---	---	---	e.00	6.0	e.06	e.00	e.00	e.00
30	---	---	---	---	---	---	e.00	13	e.03	e1.2	e.00	e.00
31	---	---	---	---	---	---	---	34	---	e1.3	e.00	---
TOTAL	---	---	---	---	---	---	0.00	121.20	1228.09	2.98	2.05	8.60
MEAN	---	---	---	---	---	---	.000	3.91	40.9	.096	.066	.29
MAX	---	---	---	---	---	---	.00	34	101	1.3	.97	4.2
MIN	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	.00	240	2440	5.9	4.1	17

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	16	8.7	6.8	5.8	4.9	8.4	12	174	187	147	59
2	18	14	e8.8	6.9	5.6	4.5	8.4	11	211	163	139	54
3	18	15	9.2	7.8	e6.0	e4.5	7.2	10	225	145	120	57
4	19	16	9.4	e6.8	6.4	e4.5	8.2	12	246	137	127	56
5	18	15	9.3	6.7	6.3	e4.5	8.4	17	259	134	125	49
6	18	15	e9.4	e6.7	6.2	e4.6	7.1	26	243	122	155	40
7	17	13	9.4	e6.9	6.1	4.7	7.0	35	238	117	175	39
8	17	13	9.2	e6.9	e5.4	4.6	7.3	40	253	123	125	36
9	16	13	9.6	e7.0	5.3	4.5	7.5	49	238	116	109	31
10	16	13	9.9	e7.2	5.4	4.1	7.4	58	209	128	109	29
11	23	13	10	e7.2	5.4	4.0	7.0	65	201	129	102	34
12	33	12	10	e7.6	5.4	4.1	6.9	65	218	114	87	38
13	33	12	10	7.5	e5.2	4.1	6.7	63	207	115	77	37
14	32	12	10	7.2	e5.0	4.2	6.7	71	205	107	86	35
15	30	12	9.8	7.0	e4.8	4.3	7.0	77	203	110	76	34
16	31	13	e9.0	6.9	4.8	4.1	7.3	94	196	110	70	39
17	29	12	e8.8	6.7	4.9	4.4	8.4	114	194	100	69	37
18	25	12	e8.7	6.5	5.2	4.6	10	133	200	99	74	34
19	28	13	e8.6	6.3	5.7	4.8	12	134	234	110	73	33
20	27	13	e8.6	6.2	5.8	5.2	15	142	263	97	64	35
21	19	12	e8.7	e6.2	5.7	5.9	20	110	269	90	60	34
22	16	12	8.7	e6.2	e5.4	6.5	16	129	283	89	70	36
23	17	13	e8.4	e6.2	e5.0	6.7	14	110	275	88	59	33
24	17	12	8.1	e6.2	4.9	7.8	15	110	249	88	47	30
25	17	11	e8.0	6.2	e4.9	6.8	12	104	221	92	54	28
26	16	10	e8.0	e6.2	e4.9	6.3	12	95	207	79	77	27
27	16	11	8.0	6.7	5.0	6.7	11	84	197	89	71	27
28	16	9.6	8.1	6.2	5.0	6.7	13	79	194	108	66	26
29	17	9.3	7.4	e5.8	---	8.1	13	91	190	127	59	23
30	15	9.2	7.2	5.8	---	6.7	12	110	189	136	52	24
31	16	---	7.0	e5.7	---	7.1	---	127	---	158	57	---
TOTAL	649	376.1	274.0	206.2	151.5	164.5	301.9	2377	6691	3607	2781	1094
MEAN	20.9	12.5	8.84	6.65	5.41	5.31	10.1	76.7	223	116	89.7	36.5
MAX	33	16	10	7.8	6.4	8.1	20	142	283	187	175	59
MIN	15	9.2	7.0	5.7	4.8	4.0	6.7	10	174	79	47	23
AC-FT	1290	746	543	409	301	326	599	4710	13270	7150	5520	2170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1997, BY WATER YEAR (WY)

MEAN	19.2	13.5	10.0	7.36	5.75	5.32	11.9	63.2	128	90.2	47.7	27.0
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1984 - 1997	
ANNUAL TOTAL	14432.9		18673.2			
ANNUAL MEAN	39.4		51.2		35.9	
HIGHEST ANNUAL MEAN					70.4	1995
LOWEST ANNUAL MEAN					20.5	1990
HIGHEST DAILY MEAN	230	May 20	283	Jun 22	578	Jul 12 1995
LOWEST DAILY MEAN	4.7	Mar 19	4.0	Mar 11	[a]3.1	Mar 15 1992
ANNUAL SEVEN-DAY MINIMUM	5.0	Mar 15	4.1	Mar 10	3.2	Mar 10 1992
INSTANTANEOUS PEAK FLOW			300	Jun 22	681	Jun 18 1995
INSTANTANEOUS PEAK STAGE			2.47	Jun 22	3.23	Jun 18 1995
ANNUAL RUNOFF (AC-FT)	28630		37040		26020	
10 PERCENT EXCEEDS	126		146		90	
50 PERCENT EXCEEDS	16		16		15	
90 PERCENT EXCEEDS	5.9		5.4		5.2	

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

09046530 FRENCH GULCH AT BRECKENRIDGE, CO

LOCATION.--Lat. 39°29'35" , long.106°02'39", in SE1/4SW1/4, sec.30, T.6 S, R.77 W, Summit County, Hydrologic Unit 14010002, on left bank, 0.1 mi south of Summit Co. Rd. 450, 0.1 mi 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 good except for estimated daily discharges, which are good to fair. No diversion or regulation upstream from gage.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	4.0	2.6	2.3	e1.8	1.5	3.6	5.0	64	37	18	8.2
2	6.0	3.7	2.7	2.3	e1.8	1.5	3.5	4.8	91	34	16	8.1
3	6.0	3.9	2.7	2.3	e1.8	1.4	3.6	4.8	96	32	15	8.3
4	6.0	4.2	2.7	e2.3	e1.7	1.4	3.7	5.4	103	30	14	8.2
5	5.8	3.7	e2.7	e2.1	e1.8	e1.4	3.6	6.6	115	28	15	8.0
6	5.7	3.8	e2.7	e2.0	e1.8	e1.4	3.5	7.8	105	27	18	7.9
7	5.6	3.3	2.7	e1.9	e1.7	e1.3	3.6	8.8	100	25	20	7.8
8	5.5	3.1	2.7	e1.8	e1.6	e1.4	3.5	9.4	105	24	17	7.4
9	5.4	3.4	2.6	e1.8	e1.6	e1.5	3.4	10	96	23	15	7.2
10	5.3	3.4	2.7	e1.8	e1.6	e1.5	3.4	12	84	22	16	7.2
11	5.2	3.4	2.6	e1.8	e1.6	e1.7	3.2	14	80	22	15	7.1
12	5.1	3.4	2.6	e1.7	e1.7	e1.6	3.2	14	69	21	14	7.0
13	5.1	3.5	2.6	e1.7	e1.8	e1.6	3.3	15	67	20	13	6.8
14	5.0	3.4	2.5	e1.8	e1.7	1.5	3.3	15	69	19	13	6.9
15	4.9	3.4	2.5	e1.8	e1.7	1.6	3.2	16	69	18	12	6.9
16	5.0	3.4	e2.5	e1.7	e1.8	1.8	3.3	18	64	18	11	7.2
17	4.9	3.2	e2.4	e1.7	1.9	1.7	3.6	22	64	17	11	6.8
18	4.7	3.3	e2.2	e1.6	1.9	1.9	4.1	25	67	17	11	6.6
19	5.3	3.4	e2.2	e1.7	e1.9	2.1	4.6	25	76	19	11	6.4
20	5.2	3.4	e2.2	e1.8	1.9	2.2	5.1	30	82	19	10	6.7
21	4.3	3.1	e2.2	e1.9	1.9	2.4	5.5	30	77	17	9.7	6.6
22	4.2	3.3	e2.2	e1.9	1.9	2.6	5.0	37	77	17	9.3	6.8
23	4.6	3.3	e2.3	e1.9	1.9	2.9	4.8	35	75	16	9.0	6.6
24	4.7	3.2	e2.3	e1.8	1.7	2.9	4.7	35	67	16	8.7	6.4
25	4.6	2.9	e2.3	e1.8	1.9	2.8	4.6	35	59	16	8.9	6.2
26	4.4	2.9	e2.3	e1.8	1.7	2.9	4.6	32	53	15	9.6	5.9
27	4.2	2.8	2.4	e1.8	1.5	3.1	4.7	28	49	14	9.2	6.0
28	4.3	2.5	2.4	e1.9	1.7	3.2	5.3	26	44	15	9.1	5.7
29	4.2	2.5	2.4	e1.8	---	3.3	5.4	29	42	17	8.5	5.7
30	3.8	2.5	2.3	e1.8	---	3.3	5.1	33	40	17	8.3	5.6
31	4.0	---	2.3	e1.8	---	3.5	---	40	---	17	8.3	---
TOTAL	155.1	99.3	76.5	58.1	49.3	64.9	122.0	628.6	2249	649	383.6	208.2
MEAN	5.00	3.31	2.47	1.87	1.76	2.09	4.07	20.3	75.0	20.9	12.4	6.94
MAX	6.1	4.2	2.7	2.3	1.9	3.5	5.5	40	115	37	20	8.3
MIN	3.8	2.5	2.2	1.6	1.5	1.3	3.2	4.8	40	14	8.3	5.6
AC-FT	308	197	152	115	98	129	242	1250	4460	1290	761	413

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1997, BY WATER YEAR (WY)

MEAN	5.08	3.23	2.60	1.90	1.90	2.05	3.94	29.6	66.6	20.3	10.3	6.57
MAX	5.15	3.31	2.74	1.92	2.04	2.09	4.07	38.8	75.0	20.9	12.4	6.94
(WY)	1996	1997	1996	1996	1996	1997	1997	1996	1997	1997	1997	1997
MIN	5.00	3.14	2.47	1.87	1.76	2.00	3.81	20.3	58.2	19.6	8.17	6.21
(WY)	1997	1996	1997	1997	1997	1996	1996	1997	1996	1996	1996	1996

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1996 - 1997	
ANNUAL TOTAL	4624.9		4743.6			
ANNUAL MEAN	12.6		13.0		12.8	
HIGHEST ANNUAL MEAN					13.0	1997
LOWEST ANNUAL MEAN					12.7	1996
HIGHEST DAILY MEAN	[a]80	May 25	115	Jun 5	115	Jun 5 1997
LOWEST DAILY MEAN	[e,b]1.7	Jan 4	[e]1.3	Mar 7	[e]1.3	Mar 7 1997
ANNUAL SEVEN-DAY MINIMUM	1.8	Mar 7	1.4	Mar 2	1.4	Mar 2 1997
INSTANTANEOUS PEAK FLOW			124	Jun 5	124	Jun 5 1997
INSTANTANEOUS PEAK STAGE			7.09	Jun 5	7.09	Jun 5 1997
ANNUAL RUNOFF (AC-FT)	9170		9410		9290	
10 PERCENT EXCEEDS	43		34		40	
50 PERCENT EXCEEDS	4.6		4.7		4.6	
90 PERCENT EXCEEDS	1.9		1.8		1.8	

e-Estimated.
a-Also occurred Jun 10.
b-Also occurred Jan 5.

09046530 FRENCH GULCH AT BRECKENRIDGE, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1996 to September 1997.

INSTRUMENTATION.--Water temperature sensor and logger installed October 8, 1996.

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

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 10.0°C, Aug. 27, Sept. 5; minimum, 0°C on many days Dec. to Apr.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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											
08...	1340	5.5	260	7.6	7.0	9.2	110	34	5.5	1.9	0.1
NOV											
13...	1105	3.5	289	7.1	3.5	10.2	120	38	6.5	2.1	0.1
DEC											
13...	1040	2.8	317	7.6	1.5	10.2	140	44	7.8	2.2	0.1
JAN											
16...	0945	1.7	337	7.6	0.5	9.7	140	44	7.6	2.2	0.1
FEB											
21...	1020	1.8	360	7.6	0.5	9.5	160	51	8.8	2.3	0.1
MAR											
19...	1405	2.1	369	7.5	4.0	9.2	160	50	8.9	3.3	0.1
APR											
18...	1150	4.1	371	7.5	3.5	9.7	160	50	8.8	2.4	0.1
28...	1115	5.1	369	7.5	2.5	9.3	160	52	8.6	2.3	0.1
MAY											
12...	1450	14	301	7.5	3.5	9.1	130	41	6.6	2.2	0.1
22...	1345	39	199	7.4	3.0	10.1	85	27	4.1	1.6	0.1
27...	1435	28	219	7.5	3.5	9.3	92	29	4.6	1.8	0.1
JUN											
03...	0820	95	158	7.5	3.5	9.0	64	21	3.1	1.4	0.1
12...	1245	67	156	7.5	4.0	9.5	62	20	3.0	1.3	0.1
JUL											
17...	1215	18	184	7.6	7.5	8.7	79	25	3.8	1.7	0.1
28...	0930	15	191	7.8	7.0	8.1	81	26	3.9	1.6	0.1
AUG											
11...	1340	15	181	7.5	7.5	9.1	75	24	3.6	1.5	0.1
SEP											
16...	1325	7.3	238	7.7	8.0	8.7	100	32	5.2	1.8	0.1

09046530 FRENCH GULCH AT BRECKENRIDGE, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE[a] WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY[b] 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											
08...	0.9	43	36	83	0.9	<0.1	9.1	154	159	0.21	2.29
NOV											
13...	1.0	40	33	98	1.1	<0.1	9.2	183	179	0.25	1.74
DEC											
13...	1.0	37	30	110	1.2	<0.1	9.5	208	198	0.28	1.57
JAN											
16...	1.0	37	30	120	1.2	<0.1	9.0	226	208	0.31	1.04
FEB											
21...	1.0	32	26	140	1.2	<0.1	9.1	238	234	0.32	1.16
MAR											
19...	1.2	31	26	140	3.2	0.1	8.8	240	236	0.33	1.36
APR											
18...	1.0	36	30	140	1.8	<0.1	9.1	252	235	0.34	2.79
28...	1.0	37	30	130	2.0	<0.1	9.2	243	233	0.33	3.35
MAY											
12...	0.9	45	37	98	1.9	<0.1	9.2	190	186	0.26	7.18
22...	0.7	39	32	56	1.3	0.1	8.2	135	122	0.18	14.1
27...	0.7	41	34	61	1.5	<0.1	8.6	145	131	0.20	11.0
JUN											
03...	0.6	32	26	40	0.8	<0.1	7.4	102	93	0.14	26.2
12...	0.6	36	30	38	0.7	<0.1	7.3	100	91	0.14	18.0
JUL											
17...	0.6	40	33	48	0.5	<0.1	7.7	124	110	0.17	6.03
28...	0.7	40	33	51	0.6	<0.1	8.2	126	114	0.17	5.10
AUG											
11...	0.6	38	32	46	0.5	<0.1	7.7	118	105	0.16	4.72
SEP											
16...	0.8	41	34	71	0.9	<0.1	8.9	148	143	0.20	2.92

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 DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)
OCT										
08...	0.01	<0.05	0.02	<0.2	<0.2	<0.01	<0.01	<0.01	0.4	<0.1
NOV										
13...	<0.01	0.05	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	0.4	0.1
DEC										
13...	0.01	0.06	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	0.6	0.1
JAN										
16...	0.01	0.10	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	0.3	0.1
FEB										
21...	<0.01	0.07	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	0.4	<0.1
MAR										
19...	<0.01	0.12	0.09	<0.2	0.3	<0.01	<0.01	<0.01	1.1	0.2
APR										
18...	<0.01	0.15	<0.015	<0.2	<0.2	0.02	<0.01	<0.01	0.4	0.1
28...	<0.01	0.21	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	0.4	0.1
MAY										
12...	<0.01	0.16	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	0.4	0.1
22...	<0.01	0.14	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	1.2	0.2
27...	<0.01	0.10	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	1.1	0.1
JUN										
03...	<0.01	0.12	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	1.5	0.4
12...	<0.01	0.11	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	2.5	0.1
JUL										
17...	<0.01	0.08	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	0.6	<0.2
28...	<0.01	<0.05	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	0.5	<0.2
AUG										
11...	<0.01	0.10	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	0.5	<0.2
SEP										
16...	<0.01	<0.05	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	0.6	<0.2

a-Field dissolved bicarbonate, determined by incremental titration method.
b-Field total dissolved alkalinity, determined by incremental titration method.

09046530 FRENCH GULCH AT BRECKENRIDGE, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	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 WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)
OCT									
08...	--	5	<1	<1	22	<1	--	7	<1
NOV									
13...	--	6	<1	<1	24	<1	--	7	<1
DEC									
13...	--	7	<1	<1	27	<1	--	8	3
JAN									
16...	--	8	<1	<1	27	<1	--	8	<1
FEB									
21...	--	6	<1	<1	30	<1	--	9	<1
MAR									
19...	--	3	<1	<1	31	<1	--	8	<1
APR									
18...	--	19	<1	<1	29	<1	--	10	<1
28...	--	21	<1	<1	27	<1	--	10	<1
MAY									
12...	--	17	<1	<1	21	<1	--	8	<1
22...	--	11	<1	<1	13	<1	--	8	<1
27...	--	11	<1	<1	14	<1	--	7	1
JUN									
03...	--	11	<1	<1	11	<1	--	8	<1
12...	--	10	<1	<1	10	<1	--	6	<1
JUL									
17...	--	6	<1	<1	12	<1	--	5	<1
28...	<10	5	<1	<1	13	<1	5	5	<1
AUG									
11...	--	4	<1	<1	12	<1	--	4	<1
SEP									
16...	--	5	<1	<1	20	<1	--	6	<1

DATE	COBALT, DISSOLVED (UG/L AS CO) (01035)	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)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)
OCT								
08...	<1	--	<1	--	12	--	5	--
NOV								
13...	<1	--	<1	--	12	--	6	--
DEC								
13...	<1	--	<1	--	17	--	7	--
JAN								
16...	<1	--	<1	--	15	--	8	--
FEB								
21...	<1	--	1	--	16	--	8	--
MAR								
19...	<1	--	<1	--	<3	--	<1	--
APR								
18...	<1	--	2	--	57	--	<1	--
28...	<1	--	2	--	78	--	<1	--
MAY								
12...	<1	--	1	--	15	--	1	--
22...	<1	--	2	--	16	--	1	--
27...	<1	--	2	--	6	--	<1	--
JUN								
03...	<1	--	2	--	51	--	2	--
12...	<1	--	2	--	43	--	2	--
JUL								
17...	<1	--	<1	--	17	--	2	--
28...	<1	1	1	60	11	5	2	80
AUG								
11...	<1	--	2	--	11	--	2	--
SEP								
16...	<1	--	<1	--	16	--	4	--

09046530 FRENCH GULCH AT BRECKENRIDGE, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	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, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
OCT								
08...	13	<1	3	<1	<1	--	2400	<1
NOV								
13...	17	<1	3	<1	<1	--	3100	<1
DEC								
13...	20	<1	5	<1	<1	--	3700	<1
JAN								
16...	18	<1	4	<1	<1	--	4100	<1
FEB								
21...	25	<1	4	<1	<1	--	4500	<1
MAR								
19...	38	<1	4	<1	<1	--	4000	<1
APR								
18...	33	<1	5	<1	<1	--	4290	<1
28...	40	<1	5	<1	<1	--	4450	<1
MAY								
12...	93	<1	3	<1	<1	--	3280	<1
22...	210	<1	2	<1	<1	--	2610	<1
27...	230	<1	3	<1	<1	--	2630	<1
JUN								
03...	260	<1	2	<1	<1	--	2390	<1
12...	330	<1	2	<1	<1	--	1990	<1
JUL								
17...	120	<1	2	<1	<1	--	2040	<1
28...	82	<1	2	--	<1	2100	2170	<1
AUG								
11...	67	<1	3	<1	<1	--	1790	<1
SEP								
16...	26	<1	2	<1	<1	--	2460	<1

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)
OCT					
08...	1335	5.5	260	--	7.0
NOV					
13...	1055	3.5	289	--	3.5
DEC					
13...	1055	2.8	317	--	1.5
JAN					
16...	0940	1.7	--	--	0.5
FEB					
21...	1015	1.8	360	--	0.5
MAR					
06...	1500	1.3	398	7.5	1.5
19...	1400	2.1	369	--	4.0
APR					
03...	0850	3.5	371	7.4	1.5
18...	1135	4.1	371	--	3.5
24...	1345	4.8	361	7.4	1.5
28...	1120	5.1	369	--	2.5
MAY					
07...	1120	8.2	337	7.5	4.0
12...	1500	14	301	--	3.5
22...	1340	39	199	--	3.0
27...	1440	28	219	--	3.5
JUN					
03...	0835	95	158	--	3.5
12...	1235	67	156	--	4.0
17...	1545	61	151	7.3	5.0
24...	1355	65	138	7.6	5.5
JUL					
09...	0750	24	173	7.7	5.0
17...	1145	18	184	--	7.5
28...	0915	15	191	--	7.0
AUG					
11...	1400	15	181	--	7.5
SEP					
16...	1315	7.3	238	--	8.0

09046530 FRENCH GULCH AT BRECKENRIDGE, CO--Continued

(National Water-Quality Assessment Program station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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[d] TYPE (CODE) (84164)	MEDIUM[f] CODE
OCT						
08...	1335	5.5	1	0.01	3044	9
08...	1340	5.5	0[c]	0.0	3045	9
NOV						
13...	1055	3.5	0	0.0	3044	9
13...	1105	3.5	1[c]	0.01	3045	9
DEC						
13...	1040	2.8	0[c]	0.0	3045	9
13...	1055	2.8	0	0.0	3044	9
JAN						
16...	0940	1.7	1	0.0	8010	9
16...	0945	1.7	0[c]	0.0	8010	9
FEB						
21...	1015	1.8	0	0.0	8010	9
21...	1020	1.8	0[c]	0.0	8010	9
MAR						
06...	1500	1.3	4	0.01	8010	9
19...	1400	2.1	20	0.11	3044	9
19...	1405	2.1	22[c]	0.12	3045	9
APR						
03...	0850	3.5	1	0.01	3044	9
18...	1135	4.1	2	0.02	3044	9
18...	1150	4.1	2[c]	0.02	3045	9
24...	1345	4.8	2	0.03	3044	9
28...	1115	5.1	1[c]	0.01	3045	9
28...	1120	5.1	1	0.01	3044	9
MAY						
07...	1120	8.2	1	0.02	3044	9
12...	1450	14	1[c]	0.04	3045	9
12...	1455	14	1[c]	0.04	3045	R
12...	1500	14	1	0.04	3044	9
22...	1340	39	4	0.42	3044	9
22...	1345	39	6[c]	0.63	3044	9
27...	1435	28	1[c]	0.08	3045	9
27...	1440	28	0	0.0	3044	9
JUN						
03...	0820	95	12[c]	3.1	3044	9
03...	0835	95	13	3.3	3044	9
12...	1235	67	3	0.54	3044	9
12...	1245	67	5[c]	0.90	3045	9
17...	1545	61	1	0.16	3044	9
24...	1355	65	1	0.18	3044	9
JUL						
09...	0750	24	1	0.06	3044	9
17...	1145	18	2	0.10	3044	9
17...	1215	18	1[c]	0.05	3045	9
17...	1216	18	0[c]	0.0	3045	R
28...	0915	15	1	0.03	3044	9
AUG						
11...	1340	15	1[c]	0.04	3045	9
11...	1400	15	0	0.0	3044	9
SEP						
16...	1315	7.3	1	0.02	3044	9
16...	1325	7.3	1[c]	0.02	3045	9

c-Suspended-sediment concentration determined from a subsample split of a composite sample.
d-Sampler type: codes 3044 and 3045 are suspended-sediment and water-quality samplers; 8010 is a 1 or 3-liter bottle.
f-A medium code of 9 is a regular sample; a code of R is a replicate sample.

09046530 FRENCH GULCH AT BRECKENRIDGE, CO--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE WATER, (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	3.9	2.2	2.8	1.9	.3	1.0	2.2	.3	1.0
2	---	---	---	4.7	1.7	2.7	1.2	.1	.7	2.2	.6	1.1
3	---	---	---	3.8	1.9	2.7	1.6	.3	.7	1.9	.3	.9
4	---	---	---	3.9	2.2	2.8	.8	.1	.4	.8	.0	.3
5	---	---	---	4.2	1.9	2.7	1.1	.3	.7	.8	.0	.3
6	---	---	---	3.0	1.6	2.2	.9	.4	.7	.8	.1	.3
7	---	---	---	2.8	1.1	1.7	1.1	.3	.7	.8	.0	.2
8	7.5	5.8	6.7	3.1	1.1	1.9	1.9	.8	1.2	.8	.3	.4
9	7.6	5.3	6.1	3.6	1.6	2.3	2.0	.6	1.1	.8	.0	.4
10	7.6	5.3	6.1	3.8	1.6	2.3	2.2	.9	1.3	.6	.0	.2
11	7.6	5.2	6.1	3.8	1.4	2.2	2.0	.6	1.2	.8	.1	.5
12	7.6	5.2	6.1	4.1	1.6	2.3	2.2	.9	1.3	.9	.3	.5
13	7.5	5.2	6.0	3.9	1.7	2.4	2.5	.8	1.3	1.2	.4	.7
14	7.2	5.2	5.7	3.5	1.7	2.4	1.1	.1	.6	1.1	.3	.6
15	6.9	4.6	5.4	3.1	1.7	2.3	.9	.3	.5	1.1	.3	.6
16	6.6	3.5	4.5	2.8	1.2	1.8	.9	.1	.6	.9	.3	.4
17	4.9	2.8	3.4	2.7	.9	1.7	.4	.0	.2	.9	.1	.4
18	5.3	2.5	3.7	2.8	1.7	2.1	.6	.0	.2	1.2	.4	.7
19	5.6	3.6	4.3	3.8	1.9	2.3	.8	.3	.5	1.4	.3	.7
20	3.9	2.5	3.5	3.3	1.7	2.4	1.1	.3	.6	1.4	.3	.7
21	3.9	2.4	2.8	3.6	1.4	2.1	1.1	.8	.9	.8	.3	.6
22	4.4	1.9	2.7	3.3	1.7	2.3	1.4	.8	1.0	1.2	.1	.6
23	4.4	2.4	3.1	2.8	1.7	2.1	.9	.1	.6	1.2	.3	.5
24	4.4	2.5	3.2	3.1	1.1	1.7	.9	.0	.4	.6	.0	.3
25	4.2	2.8	3.3	3.1	1.1	1.8	1.1	.3	.6	.9	.1	.4
26	4.1	2.5	3.1	2.7	1.2	1.7	1.4	.3	.9	1.4	.4	.8
27	4.4	2.5	3.2	2.0	.6	1.2	1.6	.3	.8	1.1	.1	.6
28	5.0	2.8	3.5	2.2	.4	1.0	1.4	.3	.7	1.1	.0	.4
29	3.3	2.0	2.6	2.4	.4	1.1	1.4	.3	.7	1.4	.3	.6
30	4.1	1.7	2.7	1.4	.4	.8	1.9	.4	1.0	1.4	.0	.5
31	4.2	1.9	2.8	---	---	---	2.0	.4	1.1	1.4	.3	.7
MONTH	---	---	---	4.7	.4	2.1	2.5	.0	.8	2.2	.0	.5

		FEBRUARY			MARCH			APRIL			MAY	
1	1.7	.1	.7	1.4	.0	.4	3.8	.4	1.4	3.0	.9	1.7
2	2.2	.1	.7	1.2	.0	.4	3.5	.4	1.3	3.9	.8	1.7
3	.6	.0	.2	.4	.0	.2	3.8	.3	1.4	4.7	.9	2.3
4	1.4	.0	.5	.6	.1	.2	3.3	.6	1.4	5.3	1.4	2.8
5	1.4	.0	.4	.8	.0	.2	1.6	.0	.6	5.0	1.9	3.2
6	1.9	.1	.5	1.2	.0	.4	3.3	.0	1.0	4.2	2.0	3.0
7	1.2	.0	.4	1.9	.0	.5	3.5	.0	1.2	4.1	2.2	2.9
8	1.1	.0	.2	1.6	.0	.5	3.1	.3	1.3	4.4	1.9	3.0
9	.9	.0	.3	2.2	.1	.7	4.1	.4	1.7	4.4	2.2	3.3
10	1.2	.0	.3	2.5	.0	.7	2.0	.3	.9	4.4	2.4	3.4
11	1.9	.0	.5	3.1	.0	1.0	2.5	.1	.9	3.8	2.2	3.1
12	1.9	.0	.6	3.1	.0	1.0	3.5	.0	1.1	4.1	2.2	3.2
13	1.6	.1	.5	3.0	.0	1.0	4.1	.0	1.3	3.9	2.0	3.2
14	.9	.0	.3	1.6	.0	.5	3.6	.0	1.3	3.8	2.2	3.0
15	1.4	.1	.5	3.3	.0	1.1	3.9	.6	1.6	4.2	2.2	3.2
16	1.9	.0	.6	3.6	.3	1.3	5.3	.4	2.2	4.2	2.2	3.3
17	2.0	.1	.6	4.1	.3	1.2	5.2	.6	2.3	4.6	2.4	3.3
18	1.6	.1	.7	3.8	.1	1.4	4.1	.8	2.2	4.1	2.5	3.3
19	1.9	.0	.5	4.1	.1	1.4	4.1	.9	2.1	4.7	2.5	3.5
20	.8	.1	.3	4.2	.1	1.6	4.6	1.2	2.2	3.9	2.5	3.3
21	1.1	.0	.4	4.1	.3	1.6	1.7	.8	1.3	4.1	2.5	3.2
22	1.1	.0	.3	4.1	.3	1.6	2.8	.6	1.3	3.1	2.5	2.8
23	.6	.0	.2	4.6	.3	1.7	3.9	.8	1.8	4.1	2.2	3.1
24	.8	.0	.2	2.5	.1	.8	1.7	.8	1.2	4.2	2.7	3.3
25	1.1	.0	.3	3.6	.0	1.2	4.1	.6	1.7	3.9	2.7	3.3
26	1.2	.0	.4	4.6	.1	1.6	3.8	1.1	2.1	3.5	2.5	2.9
27	1.2	.0	.5	3.6	.3	1.4	4.9	.8	2.4	3.8	2.4	3.0
28	.8	.0	.3	4.4	.1	1.5	3.9	1.7	2.3	3.6	2.5	3.1
29	---	---	---	2.8	.1	1.0	3.3	1.2	2.0	3.5	2.8	3.1
30	---	---	---	4.2	.0	1.4	4.1	1.1	2.0	4.6	2.7	3.6
31	---	---	---	4.1	.3	1.7	---	---	---	5.5	3.1	4.2
MONTH	2.2	.0	.4	4.6	.0	1.0	5.3	.0	1.6	5.5	.8	3.1

09046530 FRENCH GULCH AT BRECKENRIDGE, CO--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE WATER, (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	5.3	3.1	4.2	7.2	5.0	6.2	8.7	6.7	7.8	8.7	7.5	8.0
2	5.0	2.7	3.8	7.2	4.6	6.0	8.9	7.0	8.1	9.5	7.2	8.2
3	5.0	2.8	3.9	7.2	4.9	6.2	9.3	7.0	8.1	9.6	7.5	8.5
4	5.2	3.0	4.1	7.5	5.2	6.5	9.8	7.3	8.4	9.6	7.5	8.5
5	4.9	3.1	4.0	7.0	5.2	6.2	8.3	7.3	7.7	10.0	7.3	8.5
6	3.9	3.0	3.6	6.3	5.0	5.8	7.3	6.6	7.0	8.7	7.3	8.0
7	4.2	3.0	3.6	7.2	4.7	5.9	8.1	5.9	7.1	9.5	6.6	7.9
8	3.6	3.0	3.2	6.7	5.3	5.9	8.7	6.4	7.6	9.5	6.9	8.1
9	4.1	2.5	3.3	6.9	5.0	6.1	8.3	6.9	7.5	9.6	7.2	8.2
10	4.1	3.0	3.5	6.9	5.3	6.3	7.8	6.9	7.2	9.5	7.0	8.1
11	4.9	2.8	3.7	6.6	5.6	6.1	7.7	6.3	6.9	9.3	7.5	8.1
12	5.0	2.8	3.9	7.3	5.2	6.2	8.1	5.9	6.9	9.8	7.2	8.1
13	5.2	3.3	4.2	8.0	5.5	6.8	8.1	6.1	7.0	9.6	6.9	7.9
14	5.3	3.5	4.4	8.3	5.8	7.1	7.8	6.3	7.0	9.2	6.9	7.9
15	5.2	3.0	4.1	8.4	5.9	7.3	9.0	6.3	7.6	8.7	6.9	7.5
16	5.2	3.1	4.2	7.5	6.3	7.0	8.7	6.7	7.6	8.9	6.7	7.4
17	5.2	3.8	4.4	7.7	5.9	6.8	8.6	6.6	7.5	9.3	6.3	7.5
18	5.8	3.3	4.6	7.3	5.9	6.6	8.3	7.0	7.6	9.6	7.2	8.0
19	5.9	3.8	4.8	7.5	5.8	6.6	8.1	6.4	7.3	9.5	7.2	8.0
20	6.6	3.8	5.0	7.7	5.9	6.7	8.6	6.3	7.4	9.2	7.3	8.0
21	5.8	3.9	4.9	8.3	5.9	7.2	9.3	6.7	7.8	8.1	7.0	7.5
22	6.7	4.2	5.5	8.1	6.4	7.2	9.3	6.9	7.9	8.9	6.6	7.3
23	5.9	4.4	5.2	8.0	6.4	7.2	9.3	7.0	8.2	8.7	6.6	7.3
24	6.3	4.1	5.2	9.0	6.4	7.6	9.5	7.2	8.3	9.0	6.6	7.5
25	6.4	4.1	5.3	8.3	6.7	7.5	9.3	7.2	8.1	9.2	6.3	7.5
26	6.1	4.2	5.3	8.4	6.6	7.4	9.5	7.3	8.3	8.3	6.9	7.4
27	5.9	4.4	5.2	8.0	6.9	7.3	10.0	7.2	8.5	9.2	6.9	7.7
28	6.3	4.2	5.3	8.1	6.7	7.3	9.8	7.5	8.6	8.9	6.3	7.3
29	6.9	4.4	5.8	8.0	6.9	7.4	9.3	7.7	8.3	8.9	5.8	7.0
30	7.3	4.7	6.1	8.7	6.9	7.7	9.2	7.0	8.0	9.0	5.9	7.2
31	---	---	---	8.3	7.2	7.7	9.6	7.0	8.0	---	---	---
MONTH	7.3	2.5	4.5	9.0	4.6	6.8	10.0	5.9	7.7	10.0	5.8	7.8

09046600 BLUE RIVER NEAR DILLON, CO

LOCATION.--Lat 39°34'00", long 106°02'56", in SW1/4SE1/4 sec.31, T.5 S., R.77 W., Summit County, Hydrologic Unit 14010002, on left bank 0.3 mi upstream from Dillon Reservoir, and 5.0 mi south of Dillon.

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	53	e45	e34	e28	e25	42	77	550	472	280	130
2	69	53	e42	e34	e28	e25	43	68	666	442	260	126
3	67	51	e40	e32	e28	e25	44	65	717	411	245	122
4	66	51	e40	e32	e28	e25	46	67	736	387	233	124
5	65	52	e40	e32	e28	e25	46	79	781	371	235	120
6	64	52	e40	e32	e28	e25	44	103	753	351	261	111
7	63	50	e40	e32	e28	e25	43	131	742	333	307	105
8	62	49	e40	e32	e26	e25	42	155	752	326	264	100
9	61	48	e40	e32	e26	e25	e40	182	735	320	230	95
10	60	48	e40	e32	e26	e25	e40	212	679	310	225	90
11	59	48	e40	e32	e26	e25	e40	236	651	310	223	86
12	59	48	e40	e32	e26	e25	e40	245	632	300	205	86
13	65	48	e40	e32	e26	e25	e40	247	615	284	188	86
14	70	48	e40	e32	e26	e25	e40	258	612	278	190	86
15	70	47	e40	e32	e26	e23	e40	274	609	270	182	86
16	70	47	e39	e32	e26	e24	41	302	585	267	168	86
17	70	47	e38	e32	e26	e24	46	354	583	258	164	86
18	69	46	e36	e32	e26	e24	54	396	581	251	162	86
19	66	46	e34	e32	e26	e24	64	398	630	260	161	85
20	69	47	e34	e32	e25	27	76	420	673	255	154	83
21	68	47	e34	e32	e25	30	90	400	666	239	145	83
22	60	46	e34	e32	e25	32	90	501	665	226	141	83
23	56	46	e34	e32	e25	36	85	495	672	222	140	83
24	56	46	e34	e32	e25	39	80	469	643	218	128	83
25	56	e45	e34	e32	e25	38	75	447	597	212	125	79
26	56	e45	e34	e32	e25	37	73	408	576	207	140	76
27	55	e45	e34	e28	e25	38	72	365	545	198	152	75
28	54	e45	e34	e28	e25	39	76	330	522	217	145	75
29	54	e45	e34	e28	---	40	81	385	499	242	137	73
30	54	e45	e34	e28	---	39	83	459	482	248	128	71
31	53	---	e34	e28	---	41	---	459	---	267	127	---
TOTAL	1937	1434	1162	976	733	905	1716	8987	19149	8952	5845	2760
MEAN	62.5	47.8	37.5	31.5	26.2	29.2	57.2	290	638	289	189	92.0
MAX	71	53	45	34	28	41	90	501	781	472	307	130
MIN	53	45	34	28	25	23	40	65	482	198	125	71
AC-FT	3840	2840	2300	1940	1450	1800	3400	17830	37980	17760	11590	5470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1997, BY WATER YEAR (WY)

MEAN	52.0	38.9	31.3	26.4	24.3	23.7	40.3	178	347	207	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1958 - 1997	
ANNUAL TOTAL	50762		54556			
ANNUAL MEAN	139		149		[a]108	
HIGHEST ANNUAL MEAN					168	1984
LOWEST ANNUAL MEAN					45.8	1963
HIGHEST DAILY MEAN	727	May 26	781	Jun 5	[b]1160	Jun 26 1983
LOWEST DAILY MEAN	[e]22	Mar 19	[e]23	Mar 15	[c]16	Feb 12 1993
ANNUAL SEVEN-DAY MINIMUM	23	Mar 13	24	Mar 13	16	Mar 3 1995
INSTANTANEOUS PEAK FLOW			823	Jun 5	1390	Jun 18 1995
INSTANTANEOUS PEAK STAGE			6.51	Jun 5	6.91	Jun 18 1995
ANNUAL RUNOFF (AC-FT)	100700		108200		[a]78250	
10 PERCENT EXCEEDS	458		452		250	
50 PERCENT EXCEEDS	61		61		45	
90 PERCENT EXCEEDS	29		26		22	

e-Estimated.
a-Adjusted for diversions to Hoosier Pass tunnel.
b-Also occurred Jun 18, 1995.
c-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 NW1/4 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. 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	e30	e20	e16	e16	e17	e17	23	341	379	139	68
2	46	e30	e20	e16	e16	e17	e17	23	428	339	134	64
3	46	e29	e20	e16	e16	e17	e17	22	469	324	127	68
4	46	e28	e20	e16	e16	e17	e17	25	583	308	131	63
5	45	e27	e20	e16	e16	e17	e17	32	696	293	136	59
6	43	e27	e20	e15	e16	e17	e19	42	621	268	137	58
7	42	e27	e20	e16	e16	e17	e19	49	652	249	133	56
8	41	e27	e20	e16	e16	e17	e19	53	621	244	120	54
9	40	e27	e20	e16	e16	e17	e19	62	545	225	118	52
10	39	e27	e20	e16	e16	e17	e19	73	503	217	142	52
11	39	e27	e19	e16	e16	e17	e19	78	504	208	131	52
12	38	e27	e19	e16	e16	e17	e19	75	504	196	120	51
13	38	e27	e18	e16	e16	e17	e19	83	490	190	114	47
14	37	e27	e18	e16	e16	e17	e19	94	507	186	112	46
15	37	e27	e18	e16	e16	e17	e19	105	491	183	103	47
16	37	e27	e18	e16	e16	e17	e19	128	463	179	97	52
17	35	e25	e18	e16	e16	e17	e19	159	500	171	102	47
18	e34	e24	e18	e16	e17	e17	e19	186	529	171	101	45
19	e34	e24	e18	e16	e17	e17	22	210	612	172	94	43
20	e33	e24	e18	e16	e17	e17	25	213	650	159	88	50
21	e33	e24	e18	e16	e17	e17	26	215	599	149	85	46
22	e33	e24	e18	e16	e17	e17	23	234	598	145	82	50
23	e33	e24	e18	e16	e17	e17	22	214	582	144	77	47
24	e33	e24	e18	e16	e17	e17	22	218	535	144	78	44
25	e32	e24	e18	e16	e17	e17	21	204	486	140	87	42
26	e32	e23	e17	e16	e17	e17	22	182	453	134	84	42
27	e31	e22	e17	e16	e17	e17	24	156	432	135	80	42
28	e31	e21	e16	e16	e17	e17	25	143	408	136	76	39
29	e31	e20	e16	e16	---	e17	24	161	399	134	71	38
30	e31	e20	e16	e16	---	e17	23	174	393	139	69	37
31	e30	---	e16	e16	---	e17	---	234	---	144	69	---
TOTAL	1149	764	570	495	459	527	611	3870	15594	6205	3237	1501
MEAN	37.1	25.5	18.4	16.0	16.4	17.0	20.4	125	520	200	104	50.0
MAX	49	30	20	16	17	17	26	234	696	379	142	68
MIN	30	20	16	15	16	17	17	22	341	134	69	37
AC-FT	2280	1520	1130	982	910	1050	1210	7680	30930	12310	6420	2980

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1997, BY WATER YEAR (WY)

MEAN	27.3	19.6	15.4	12.0	10.7	10.7	18.1	98.7	289	149	66.3	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1943 - 1997	
ANNUAL TOTAL	32514		34982			
ANNUAL MEAN	88.8		95.8		62.9	
HIGHEST ANNUAL MEAN					95.8	1997
LOWEST ANNUAL MEAN					35.1	1954
HIGHEST DAILY MEAN	632	Jun 11	696	Jun 5	870	Jun 22 1995
LOWEST DAILY MEAN	e11	Mar 19	e15	Jan 6	5.0	Feb 26 1964
ANNUAL SEVEN-DAY MINIMUM	12	Mar 13	16	Dec 31	6.0	Jan 9 1963
INSTANTANEOUS PEAK FLOW			833	Jun 4	1250	Jun 10 1952
INSTANTANEOUS PEAK STAGE			3.35	Jun 4	a3.51	Jun 10 1952
ANNUAL RUNOFF (AC-FT)	64490		69390		45600	
10 PERCENT EXCEEDS	319		257		177	
50 PERCENT EXCEEDS	30		29		22	
90 PERCENT EXCEEDS	14		16		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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	e4.1	e3.6	e2.9	e2.9	e2.9	e2.9	3.4	60	34	10	5.3
2	4.6	e4.1	e3.6	e2.9	e2.9	e2.9	e3.2	3.4	67	33	9.7	5.2
3	4.6	e4.1	e3.6	e2.9	e2.9	e2.9	e3.2	3.4	68	31	9.2	5.6
4	4.6	e4.1	e3.6	e2.9	e2.9	e2.9	e3.2	3.7	70	29	9.0	5.1
5	4.4	e4.4	e3.6	e2.7	e2.9	e2.9	e3.2	4.6	67	27	9.5	5.0
6	4.3	e4.7	e3.6	e2.9	e2.9	e2.9	e3.2	5.9	55	25	10	5.0
7	4.3	e4.7	e3.6	e2.9	e2.9	e2.9	e3.2	7.2	66	23	10	4.9
8	4.3	e4.7	e3.5	e2.9	e2.9	e2.9	e3.2	8.5	68	23	8.5	4.7
9	4.3	e4.7	e3.5	e2.9	e2.9	e2.9	e3.2	10	61	22	8.0	4.6
10	4.3	e4.7	e3.4	e2.9	e2.9	e2.9	e3.2	12	54	21	9.6	4.5
11	4.3	e4.7	e3.3	e2.9	e2.9	e2.9	e3.2	13	54	19	8.9	4.7
12	4.3	e4.7	e3.2	e2.9	e2.9	e2.9	e3.2	13	56	18	8.1	4.6
13	4.2	e4.7	e3.2	e2.9	e2.9	e2.9	e3.2	15	53	17	7.5	4.5
14	4.1	e4.7	e3.2	e2.9	e2.9	e2.9	e3.2	15	52	16	7.2	4.4
15	3.9	e4.7	e3.2	e2.9	e2.9	e2.9	e3.2	16	48	15	6.8	4.6
16	3.8	e4.3	e3.2	e2.9	e2.9	e2.9	e3.2	20	47	15	6.6	4.6
17	3.5	e4.3	e3.2	e2.9	e2.9	e2.9	e3.2	24	50	14	6.7	4.3
18	5.0	e4.3	e3.2	e2.9	e2.9	e2.9	e3.3	25	50	14	6.6	4.3
19	4.0	e4.3	e3.2	e2.9	e2.9	e2.9	3.5	28	54	14	6.3	4.2
20	3.7	e4.3	e3.2	e2.9	e2.9	e2.9	3.9	31	43	13	6.1	4.6
21	e3.7	e4.3	e3.2	e2.9	e2.9	e2.9	4.2	32	40	13	6.0	4.4
22	e3.8	e4.3	e3.2	e2.9	e2.9	e2.9	3.5	41	40	12	5.8	4.7
23	e3.8	e4.3	e3.2	e2.9	e2.9	e2.9	3.4	42	41	13	5.7	e4.5
24	e3.9	e4.3	e3.2	e2.9	e2.9	e2.9	3.4	42	36	12	5.9	e4.3
25	e3.9	e4.3	e3.1	e2.9	e2.9	e2.9	3.4	40	34	12	6.5	4.1
26	e3.9	e3.9	e3.0	e2.9	e2.9	e2.9	3.4	36	33	11	6.4	4.2
27	e3.9	e3.7	e3.0	e2.9	e2.9	e2.9	3.5	32	33	11	5.8	4.3
28	e3.9	e3.6	e2.9	e2.9	e2.9	e2.9	3.6	29	33	11	5.7	4.0
29	e3.9	e3.6	e2.9	e2.9	---	e2.9	3.6	34	33	11	5.3	3.9
30	e4.1	e3.6	e2.9	e2.9	---	e2.9	3.4	35	34	11	5.3	3.8
31	e4.1	---	e2.9	e2.9	---	e2.9	---	46	---	11	5.4	---
TOTAL	128.2	129.2	101.2	89.7	81.2	89.9	100.2	671.1	1500	551	228.1	136.9
MEAN	4.14	4.31	3.26	2.89	2.90	2.90	3.34	21.6	50.0	17.8	7.36	4.56
MAX	5.0	4.7	3.6	2.9	2.9	2.9	4.2	46	70	34	10	5.6
MIN	3.5	3.6	2.9	2.7	2.9	2.9	2.9	3.4	33	11	5.3	3.8
AC-FT	254	256	201	178	161	178	199	1330	2980	1090	452	272

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1997, BY WATER YEAR (WY)

MEAN	3.36	2.97	2.53	2.19	2.05	2.07	3.10	12.8	25.4	10.5	5.37	3.81
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1958 - 1997	
ANNUAL TOTAL	4310.4		3806.7			
ANNUAL MEAN	11.8		10.4		6.36	
HIGHEST ANNUAL MEAN					13.1	1984
LOWEST ANNUAL MEAN					3.10	1963
HIGHEST DAILY MEAN	104	May 25	70	Jun 4	153	Jun 18 1995
LOWEST DAILY MEAN	e2.4	Mar 18	e2.7	Jan 5	1.1	Feb 26 1964
ANNUAL SEVEN-DAY MINIMUM	2.5	Mar 23	2.9	Dec 30	1.3	Nov 28 1963
INSTANTANEOUS PEAK FLOW			101	Jun 4	a311	Jun 17 1995
INSTANTANEOUS PEAK STAGE			3.17	Jun 4	3.47	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	8550		7550		4600	
10 PERCENT EXCEEDS	46		33		15	
50 PERCENT EXCEEDS	4.3		4.1		3.0	
90 PERCENT EXCEEDS	2.6		2.9		1.9	

e-Estimated.
a-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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	e28	e25	e20	e22	e30	e40	85	867	452	145	77
2	43	e28	e23	e19	e22	e30	e40	83	1010	409	141	72
3	47	29	e23	e18	e22	e33	e40	83	1020	391	127	76
4	43	e29	e23	e18	e22	e36	e40	88	1080	368	129	71
5	41	30	e23	e18	e22	e36	e40	103	1090	341	148	68
6	38	e30	e23	e18	e22	e36	e40	118	991	317	171	66
7	36	e29	e23	e17	e22	e36	e40	141	993	296	170	68
8	35	e28	e23	e18	e22	e36	e40	165	962	275	137	62
9	33	e28	e23	e18	e22	e36	e40	187	846	251	124	58
10	33	e27	e23	e18	e25	e36	e40	214	815	241	140	56
11	32	27	e23	e18	e25	e36	e40	233	854	229	131	56
12	30	28	e23	e18	e25	e36	e40	235	827	211	120	59
13	29	26	e23	e18	e25	e36	e40	246	774	206	117	55
14	e29	25	e23	e18	e25	e36	e40	267	741	198	136	51
15	e29	e26	e23	e18	e25	e36	e40	301	712	192	114	52
16	e29	e26	e22	e18	e25	e36	e42	354	703	185	105	60
17	e29	e26	e21	e18	e25	e36	e44	416	741	176	100	53
18	e29	e26	e20	e18	e25	e36	54	456	789	176	100	51
19	e29	e26	e20	e18	e25	e38	59	477	907	190	97	49
20	e29	e26	e20	e18	e25	e40	62	500	987	181	91	53
21	e29	e26	e20	e18	e30	e40	72	501	918	167	88	50
22	e29	e26	e20	e18	e30	e40	71	559	898	163	87	56
23	e29	e26	e20	e18	e30	e40	72	505	827	159	81	56
24	e29	e26	e20	e18	e30	e40	73	529	743	152	79	50
25	e28	e26	e20	e18	e30	e40	70	496	675	148	79	47
26	e28	e26	e20	e20	e30	e40	71	400	625	138	88	47
27	e27	e26	e20	e22	e30	e40	70	340	584	138	85	53
28	e27	e26	e20	e22	e30	e40	77	307	543	146	80	47
29	e27	e26	e20	e22	---	e40	86	411	525	145	77	45
30	e28	e26	e20	e22	---	e40	84	544	499	152	74	43
31	28	---	e20	e22	---	e40	---	658	---	156	81	---
TOTAL	997	808	670	582	713	1151	1607	10002	24546	6949	3442	1707
MEAN	32.2	26.9	21.6	18.8	25.5	37.1	53.6	323	818	224	111	56.9
MAX	47	30	25	22	30	40	86	658	1090	452	171	77
MIN	27	25	20	17	22	30	40	83	499	138	74	43
AC-FT	1980	1600	1330	1150	1410	2280	3190	19840	48690	13780	6830	3390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1997, BY WATER YEAR (WY)

MEAN	32.0	24.8	19.4	16.7	17.1	19.0	38.2	253	487	198	74.5	44.0
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1958 - 1997	
ANNUAL TOTAL	53002		53174			
ANNUAL MEAN	145		146		102	
HIGHEST ANNUAL MEAN					183	1984
LOWEST ANNUAL MEAN					47.0	1977
HIGHEST DAILY MEAN	985	Jun 6	1090	Jun 5	1480	Jun 17 1965
LOWEST DAILY MEAN	e,a20	Mar 18	e17	Jan 7	5.3	Oct 14 1994
ANNUAL SEVEN-DAY MINIMUM	20	Dec 18	18	Jan 3	7.9	Mar 8 1960
INSTANTANEOUS PEAK FLOW			1310	Jun 4	b1910	Jun 16 1965
INSTANTANEOUS PEAK STAGE			4.66	Jun 4	6.15	Jun 16 1965
ANNUAL RUNOFF (AC-FT)	105100		105500		73990	
10 PERCENT EXCEEDS	542		499		324	
50 PERCENT EXCEEDS	35		40		30	
90 PERCENT EXCEEDS	23		20		13	

e-Estimated.
a-Also occurred Dec 18-30, also estimated days.
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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	104	104	104	104	209	107	362	711	1110	412	254
2	104	104	104	104	104	209	107	362	999	995	471	250
3	104	103	104	104	104	209	107	360	1230	874	495	249
4	104	104	104	104	104	209	107	359	1440	852	512	231
5	104	96	104	104	104	197	107	398	1650	852	539	219
6	104	97	104	104	104	174	107	480	1700	854	576	223
7	104	104	104	104	103	159	107	486	1710	856	616	229
8	104	104	104	104	104	154	107	526	1710	799	611	228
9	104	104	104	104	104	158	107	484	1710	750	574	225
10	104	104	104	104	104	158	137	515	1710	752	567	222
11	104	104	104	104	108	158	195	573	1720	663	566	219
12	104	104	104	103	121	158	213	573	1720	546	542	220
13	104	105	104	104	129	157	213	573	1730	422	511	215
14	104	104	104	104	138	158	289	573	1750	335	492	211
15	104	104	104	103	148	158	364	698	1750	231	476	208
16	104	104	104	104	165	158	364	904	1750	155	451	208
17	104	104	104	102	189	158	364	1130	1740	142	427	184
18	104	104	104	104	205	145	364	1210	1700	150	413	151
19	104	104	102	104	209	118	364	1210	1600	161	399	123
20	104	104	104	104	209	107	363	1210	1560	167	384	115
21	103	103	104	104	209	107	364	1200	1630	161	369	107
22	104	104	104	104	209	107	364	1200	1690	148	359	107
23	104	104	104	104	209	107	362	1200	1690	139	348	106
24	104	104	104	104	209	107	361	1200	1650	150	334	106
25	104	104	104	104	209	108	362	1090	1610	134	329	105
26	104	104	104	104	209	106	362	857	1530	122	339	106
27	104	104	104	104	209	107	360	597	1320	111	340	107
28	99	104	104	104	209	107	360	365	1250	110	334	107
29	104	104	104	104	---	107	363	279	1220	123	321	109
30	96	104	104	103	---	106	363	279	1150	208	292	109
31	104	---	104	104	---	107	---	349	---	316	264	---
TOTAL	3210	3104	3222	3219	4332	4487	7814	21602	46330	13388	13663	5253
MEAN	104	103	104	104	155	145	260	697	1544	432	441	175
MAX	104	105	104	104	209	209	364	1210	1750	1110	616	254
MIN	96	96	102	102	103	106	107	279	711	110	264	105
AC-FT	6370	6160	6390	6380	8590	8900	15500	42850	91900	26560	27100	10420

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1997, BY WATER YEAR (WY)

MEAN	114	95.3	84.3	74.4	77.3	83.2	131	325	731	452	255	161
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1963 - 1997	
ANNUAL TOTAL	142621		129624			
ANNUAL MEAN	390		355		216	
HIGHEST ANNUAL MEAN					538	1984
LOWEST ANNUAL MEAN					65.5	1981
HIGHEST DAILY MEAN	[a]1780	Jun 12	[b]1750	Jun 14	1940	May 24 1984
LOWEST DAILY MEAN	[c]96	Aug 25	[d]96	Oct 30	[f].00	Sep 4 1963
ANNUAL SEVEN-DAY MINIMUM	102	Oct 30	102	Oct 30	.00	Sep 4 1963
INSTANTANEOUS PEAK FLOW			[g]1760	Jun 14	2010	May 25 1984
INSTANTANEOUS PEAK STAGE			[g]3.57	Jun 14	[h]3.88	May 25 1984
ANNUAL RUNOFF (AC-FT)	282900		257100		156200	
10 PERCENT EXCEEDS	896		1120		491	
50 PERCENT EXCEEDS	104		150		102	
90 PERCENT EXCEEDS	104		104		51	

a-Also occurred Jun 13-14.
b-Also occurred Jun 15-16.
c-Also occurred Oct 30, and Nov 5.
d-Also occurred Nov 5.
f-Also occurred Sept 5 to Nov 19, 1963.
g-Also occurred Jun 15-16.
h-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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	e7.2	e6.2	e5.0	e4.0	e3.5	e3.3	9.8	83	86	28	12
2	13	e7.2	e6.2	e5.0	e4.0	e3.5	e3.8	9.1	92	81	26	12
3	13	e7.2	e6.2	e5.0	e4.0	e3.3	e3.8	8.9	108	77	25	14
4	13	e7.2	e6.2	e4.4	e4.0	e3.3	e3.8	12	120	72	26	12
5	12	e7.2	e6.2	e4.4	e4.0	e3.2	e3.8	16	133	66	28	12
6	12	e7.2	e6.2	e4.4	e4.0	e3.3	e3.8	22	132	60	28	12
7	11	e7.2	e6.2	e4.4	e4.0	e3.3	e3.8	24	127	56	25	12
8	11	e7.9	e6.2	e4.4	e4.0	e3.3	e3.8	27	130	55	24	11
9	11	e7.9	e6.2	e4.4	e4.0	e3.3	e4.2	32	110	53	23	11
10	11	e7.9	e6.2	e4.4	e4.0	e3.3	e4.2	37	101	52	26	10
11	10	e7.9	e6.0	e4.4	e3.8	e3.3	e4.2	36	101	47	24	11
12	10	e7.9	e5.8	e4.4	e3.8	e3.3	e4.2	34	103	42	22	11
13	9.7	e7.9	e5.6	e4.4	e3.8	e3.3	e4.2	38	103	40	20	10
14	8.9	e7.9	e5.6	e4.4	e3.8	e3.3	e4.4	43	103	38	20	9.9
15	8.8	e7.9	e5.6	e4.4	e3.8	e3.3	e4.9	48	106	37	19	10
16	9.1	e7.9	e5.6	e4.4	e3.8	e3.3	6.2	58	109	35	17	12
17	7.8	e7.4	e5.6	e4.4	e3.8	e3.3	8.0	72	115	34	17	11
18	9.4	e7.4	e5.6	e4.4	e3.8	e3.3	8.3	82	123	38	18	11
19	12	e7.2	e5.6	e4.4	e3.8	e3.3	8.8	86	152	39	17	11
20	11	e7.2	e5.6	e4.4	e3.8	e3.3	9.8	39	162	35	16	15
21	e6.5	e7.2	e5.6	e4.4	e3.5	e3.3	11	40	149	30	17	11
22	e6.5	e7.2	e5.6	e4.4	e3.5	e3.3	9.7	50	149	29	17	13
23	e6.6	e7.2	e5.6	e4.4	e3.5	e3.3	9.8	41	144	28	15	11
24	e6.6	e7.2	e5.6	e4.4	e3.5	e3.3	8.9	43	138	27	14	11
25	e6.7	e7.2	e5.6	e4.4	e3.5	e3.3	9.7	41	128	26	15	10
26	e6.7	e7.1	e5.4	e4.0	e3.5	e3.3	10	41	116	26	16	10
27	e6.7	e6.8	e5.2	e4.0	e3.5	e3.3	10	35	114	28	14	11
28	e6.7	e6.4	e5.2	e4.0	e3.5	e3.3	11	33	108	30	13	9.7
29	e6.7	e6.2	e5.0	e4.0	---	e3.3	11	43	99	29	13	9.5
30	e6.7	e6.2	e5.0	e4.0	---	e3.3	10	46	94	30	12	9.4
31	e7.2	---	e5.0	e4.0	---	e3.3	---	61	---	31	12	---
TOTAL	290.3	219.4	177.4	135.8	106.0	102.6	202.4	1207.8	3552	1357	607	335.5
MEAN	9.36	7.31	5.72	4.38	3.79	3.31	6.75	39.0	118	43.8	19.6	11.2
MAX	13	7.9	6.2	5.0	4.0	3.5	11	86	162	86	28	15
MIN	6.5	6.2	5.0	4.0	3.5	3.2	3.3	8.9	83	26	12	9.4
AC-FT	576	435	352	269	210	204	401	2400	7050	2690	1200	665

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1997, BY WATER YEAR (WY)

MEAN	7.41	6.05	4.73	4.00	3.92	4.20	6.47	27.4	70.4	33.1	13.1	8.50
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1987 - 1997	
ANNUAL TOTAL	9150.3		8293.2			
ANNUAL MEAN	25.0		22.7		15.8	
HIGHEST ANNUAL MEAN					25.5	1996
LOWEST ANNUAL MEAN					10.9	1987
HIGHEST DAILY MEAN	161	Jun 11	162	Jun 20	226	Jun 17 1995
LOWEST DAILY MEAN	e,a5.0	Dec 29	e3.2	Mar 5	1.8	Jan 31 1992
ANNUAL SEVEN-DAY MINIMUM	5.2	Dec 25	3.3	Mar 3	1.9	Jan 26 1992
INSTANTANEOUS PEAK FLOW			205	Jun 19	b416	Jun 17 1995
INSTANTANEOUS PEAK STAGE			5.35	Jun 19	5.78	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	18150		16450		11440	
10 PERCENT EXCEEDS	90		72		42	
50 PERCENT EXCEEDS	8.8		8.8		6.7	
90 PERCENT EXCEEDS	5.6		3.5		3.5	

e-Estimated.
a-Also occurred Dec 30-31.
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, 257,400 acre-ft, Aug. 7, elevation, 9,018.01 ft; minimum, 202,500 acre ft, May 8, elevation, 8.999.43 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, 146,500 acre-ft, July 30, elevation, 7,949.86 ft; minimum, 56,000 acre-ft, May 6, elevation, 7,893.19 ft.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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.....	9,013.61	243,300	-	7,937.59	121,900	-
Oct. 31.....	9,011.92	238,100	-5,200	7,935.88	118,600	-3,300
Nov. 30.....	9,010.60	234,100	-4,000	7,932.66	112,700	-5,900
Dec. 31.....	9,008.91	229,000	-5,100	7,925.44	100,200	-12,500
CAL YR 1996....	-	-	-14,300	-	-	-20,000
Jan. 31.....	9,007.05	223,600	-5,400	7,916.49	86,190	-14,010
Feb. 28.....	9,005.02	217,800	-5,800	7,909.32	75,990	-10,200
Mar. 31.....	9,004.28	215,800	-2,000	7,899.47	63,300	-12,690
Apr. 30.....	9,000.29	204,800	-11,000	7,894.49	57,460	-5,840
May 31.....	9,005.00	217,800	+13,000	7,921.11	93,220	+35,760
June 30.....	9,016.03	250,900	+33,100	7,946.31	139,100	+45,880
July 31.....	9,017.68	256,300	+5,400	7,949.71	146,200	+7,100
Aug. 31.....	9,017.44	255,500	-800	7,944.41	135,200	-11,000
Sept. 30.....	9,017.03	254,100	-1,400	7,942.48	131,300	-3,900
WTR YR 1997....	-	-	+10,800	-	-	+9,400

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.--No estimated daily discharges. Records good. Flow regulated by Green Mountain Reservoir since November 1942 (station 09057000). Diversions for irrigation of about 5,000 acres upstream from station. Transmountain diversions upstream from station (see elsewhere in this report).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	275	280	350	400	393	398	490	609	1220	2030	1240	579
2	281	268	349	397	393	400	490	689	1400	1620	1070	579
3	280	269	361	394	402	399	490	795	1410	1410	1060	584
4	281	273	367	394	405	413	491	794	987	1390	1060	607
5	279	272	370	391	402	438	490	792	967	1350	1050	606
6	278	273	370	398	401	441	489	791	950	1300	1060	607
7	278	271	370	402	401	445	488	788	945	1250	1060	605
8	279	270	368	402	398	445	487	775	951	1210	1110	562
9	275	272	369	401	399	445	488	776	980	1210	1170	459
10	269	271	369	403	405	446	484	775	1190	1220	1160	417
11	275	273	366	398	405	442	482	774	1390	1160	1160	420
12	273	274	365	399	398	440	484	776	1440	1110	1150	428
13	272	273	371	399	394	444	482	776	1500	1090	1140	429
14	270	272	372	401	391	443	484	781	1790	1090	1130	430
15	272	272	373	401	393	442	494	785	1910	1090	1130	431
16	217	271	376	395	393	440	491	761	1950	1090	1100	432
17	268	273	396	385	396	443	490	749	2310	937	1110	431
18	275	275	400	392	393	445	485	754	2450	741	1090	405
19	276	324	398	390	395	406	484	755	2450	658	1070	370
20	277	354	402	388	399	445	500	757	2540	563	1070	375
21	276	353	401	388	398	445	499	752	2740	493	994	383
22	269	354	398	394	396	444	517	743	2750	437	865	387
23	267	353	399	400	401	444	562	742	2810	389	867	386
24	274	350	390	398	407	442	590	746	3070	343	867	385
25	277	350	389	397	391	464	584	752	3110	304	737	387
26	278	350	401	398	395	493	584	742	3010	306	584	381
27	278	351	405	396	391	492	583	741	2930	308	581	388
28	278	342	394	397	399	491	584	749	2840	320	578	387
29	277	349	391	396	---	491	589	765	2840	377	579	387
30	279	349	401	395	---	489	591	823	2670	536	579	387
31	282	---	400	394	---	490	---	1050	---	1010	579	---
TOTAL	8485	9081	11831	12283	11134	13845	15446	23857	59500	28342	30000	13614
MEAN	274	303	382	396	398	447	515	770	1983	914	968	454
MAX	282	354	405	403	407	493	591	1050	3110	2030	1240	607
MIN	217	268	349	385	391	398	482	609	945	304	578	370
AC-FT	16830	18010	23470	24360	22080	27460	30640	47320	118000	56220	59510	27000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1997, BY WATER YEAR (WY)

MEAN	376	294	311	306	293	321	400	545	762	815	622	494
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1943 - 1997	
ANNUAL TOTAL	256577		237418			
ANNUAL MEAN	701		650			
HIGHEST ANNUAL MEAN					946	1984
LOWEST ANNUAL MEAN					200	1964
HIGHEST DAILY MEAN	2480	Jun 21	3110	Jun 25	4010	Jul 12 1995
LOWEST DAILY MEAN	217	Oct 16	217	Oct 16	[a,b] .00	Dec 6 1942
ANNUAL SEVEN-DAY MINIMUM	264	Oct 11	264	Oct 11	.00	Jan 5 1943
INSTANTANEOUS PEAK FLOW			3190	Jun 24	4040	Jul 12 1995
INSTANTANEOUS PEAK STAGE			9.88	Jun 24	10.85	Jul 12 1995
ANNUAL RUNOFF (AC-FT)	508900		470900			
10 PERCENT EXCEEDS	1310		1160		865	
50 PERCENT EXCEEDS	495		431		370	
90 PERCENT EXCEEDS	277		278		127	

a-No flow at times in 1943.
b-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.--Water temperature and specific conductance records are rated good.

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 13.0°C, Sept. 15-16, 1996; minimum 1.8°C, Mar. 19, and Mar. 27 to Apr. 1, 1997.

EXTREMES FOR CURRENT PERIOD.--
SPECIFIC CONDUCTANCE: Maximum, 245 microsiemens, May 21 and 26; minimum, 147 microsiemens, Sept. 13-14, and 16.
WATER TEMPERATURE: Maximum 12.9°C, Sept. 29; minimum, 1.8°C, Mar. 19, and Mar. 27 to Apr. 1.

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	159	158	159	---	---	---	161	159	160
2	---	---	---	160	159	159	---	---	---	161	158	160
3	---	---	---	160	159	160	---	---	---	161	159	160
4	---	---	---	161	159	160	---	---	---	161	159	160
5	---	---	---	161	159	160	---	---	---	162	158	160
6	---	---	---	161	159	160	---	---	---	161	159	160
7	---	---	---	161	159	160	---	---	---	162	160	161
8	---	---	---	161	159	160	---	---	---	162	160	161
9	---	---	---	160	159	159	---	---	---	162	161	161
10	---	---	---	161	159	160	---	---	---	162	160	161
11	---	---	---	161	159	160	159	158	158	162	160	161
12	160	156	158	161	156	159	160	157	159	163	161	161
13	160	158	159	158	156	157	160	157	159	162	161	162
14	160	157	158	159	156	157	160	158	159	163	161	162
15	161	157	159	159	156	157	160	158	159	164	162	162
16	---	---	---	158	156	157	160	158	159	163	161	162
17	161	156	158	159	155	157	161	159	160	164	161	163
18	160	157	158	160	157	158	161	159	160	164	162	163
19	160	157	158	158	156	157	161	159	160	166	162	164
20	160	157	158	---	---	---	161	159	160	167	163	165
21	160	157	158	---	---	---	161	159	160	167	164	165
22	161	158	159	---	---	---	160	159	160	167	164	165
23	161	158	159	---	---	---	161	159	160	166	164	165
24	161	159	160	---	---	---	161	159	160	166	164	165
25	161	160	160	---	---	---	161	160	160	168	165	166
26	161	159	160	---	---	---	161	159	160	168	165	166
27	160	159	159	---	---	---	161	159	160	168	165	167
28	160	159	159	---	---	---	161	159	160	169	165	167
29	160	158	159	---	---	---	161	159	160	171	166	168
30	160	158	159	---	---	---	161	158	160	170	167	169
31	160	158	159	---	---	---	161	159	160	171	169	170
MONTH	---	---	---	---	---	---	---	---	---	171	158	163

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

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	171	168	170	178	177	178	225	222	223	---	---	---
2	171	168	170	179	177	178	224	222	223	230	219	226
3	171	169	170	179	176	177	224	221	223	221	216	218
4	172	170	171	178	176	177	223	221	222	230	214	220
5	173	171	172	179	177	178	222	221	222	228	213	218
6	173	171	172	179	176	177	223	222	222	218	212	215
7	174	171	172	179	176	178	222	220	221	217	212	214
8	174	172	173	180	177	178	220	218	219	217	211	214
9	176	173	174	181	178	179	218	215	216	215	211	213
10	177	173	175	180	177	179	218	215	217	213	206	209
11	176	173	175	181	178	180	218	217	218	218	211	215
12	177	174	175	181	179	180	218	217	218	218	211	214
13	176	174	175	181	180	181	218	216	216	219	210	213
14	176	175	175	182	180	181	217	215	216	220	209	214
15	176	175	176	183	182	183	218	216	217	218	212	214
16	177	175	176	184	182	183	218	216	217	213	210	212
17	178	175	177	186	182	184	219	217	218	213	211	212
18	178	176	177	185	183	184	221	218	219	215	208	212
19	178	177	177	187	150	185	222	219	221	215	209	213
20	178	177	177	191	185	188	224	220	223	215	200	210
21	178	177	178	195	190	192	227	224	225	245	209	216
22	179	177	178	199	194	197	228	226	227	244	208	232
23	180	178	179	203	198	200	229	228	229	244	206	233
24	180	179	179	206	201	204	230	228	229	241	204	223
25	180	175	178	212	206	208	231	229	230	241	192	211
26	176	175	176	214	211	213	---	---	---	245	191	222
27	177	176	176	216	213	215	---	---	---	242	190	217
28	178	177	177	218	216	217	---	---	---	235	189	206
29	---	---	---	221	217	219	---	---	---	237	198	217
30	---	---	---	222	219	221	---	---	---	232	194	222
31	---	---	---	225	222	223	---	---	---	233	221	226
MONTH	180	168	175	225	150	191	---	---	---	---	---	---

		JUNE			JULY			AUGUST			SEPTEMBER	
1	237	215	226	---	---	---	---	---	---	153	149	151
2	234	189	218	---	---	---	---	---	---	---	---	---
3	231	213	221	---	---	---	---	---	---	---	---	---
4	226	217	221	---	---	---	---	---	---	160	156	158
5	225	186	219	---	---	---	---	---	---	159	156	157
6	224	186	211	---	---	---	---	---	---	158	148	156
7	224	219	221	---	---	---	---	---	---	158	150	156
8	221	214	217	---	---	---	---	---	---	157	150	155
9	216	211	214	---	---	---	---	---	---	158	154	156
10	214	207	212	---	---	---	---	---	---	158	154	156
11	216	206	210	---	---	---	---	---	---	157	154	155
12	215	205	209	169	166	167	---	---	---	157	154	155
13	212	202	207	169	165	167	---	---	---	160	147	154
14	208	201	205	168	166	167	160	157	158	154	147	149
15	204	198	201	168	166	166	160	157	158	153	148	150
16	207	198	201	---	---	---	---	---	---	156	147	152
17	201	198	199	---	---	---	---	---	---	157	153	155
18	202	198	200	---	---	---	---	---	---	157	152	154
19	204	197	200	---	---	---	---	---	---	156	151	155
20	205	197	200	---	---	---	---	---	---	---	---	---
21	203	165	195	---	---	---	---	---	---	---	---	---
22	199	193	196	---	---	---	---	---	---	---	---	---
23	197	163	195	---	---	---	---	---	---	---	---	---
24	202	192	197	---	---	---	---	---	---	---	---	---
25	200	192	196	---	---	---	165	152	154	---	---	---
26	200	161	195	---	---	---	156	152	154	---	---	---
27	199	162	182	---	---	---	155	151	153	---	---	---
28	201	193	196	---	---	---	155	150	152	---	---	---
29	197	162	193	---	---	---	156	149	152	---	---	---
30	198	163	194	---	---	---	155	148	151	---	---	---
31	---	---	---	---	---	---	154	149	151	---	---	---
MONTH	237	161	205	---	---	---	---	---	---	---	---	---

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	8.6	8.2	8.4	---	---	---	2.8	2.7	2.7
2	---	---	---	8.4	8.1	8.3	---	---	---	2.8	2.7	2.7
3	---	---	---	8.2	8.1	8.1	---	---	---	2.8	2.7	2.7
4	---	---	---	8.2	7.9	8.0	---	---	---	2.7	2.6	2.6
5	---	---	---	8.1	7.8	8.0	---	---	---	2.6	2.6	2.6
6	---	---	---	7.9	7.7	7.8	---	---	---	2.6	2.5	2.6
7	---	---	---	7.7	7.6	7.6	---	---	---	2.6	2.5	2.5
8	---	---	---	7.7	7.3	7.5	---	---	---	2.6	2.5	2.6
9	---	---	---	7.5	7.3	7.4	---	---	---	2.6	2.5	2.6
10	---	---	---	7.3	6.9	7.1	---	---	---	2.6	2.5	2.5
11	---	---	---	7.0	6.8	6.9	3.6	3.5	3.6	2.6	2.5	2.5
12	11.9	11.4	11.6	6.9	6.7	6.8	3.6	3.5	3.6	2.5	2.4	2.5
13	11.8	11.3	11.5	6.8	6.6	6.7	3.6	3.5	3.5	2.6	2.5	2.5
14	11.8	11.2	11.5	6.8	6.3	6.5	3.5	3.3	3.4	2.5	2.4	2.5
15	11.7	11.2	11.4	6.6	6.3	6.5	3.4	3.3	3.4	2.5	2.4	2.5
16	---	---	---	6.5	6.3	6.4	3.4	2.8	3.1	2.5	2.4	2.4
17	11.4	11.0	11.2	6.3	6.2	6.3	3.3	3.1	3.3	2.5	2.4	2.4
18	11.3	10.8	11.0	6.3	6.2	6.2	3.3	2.7	2.9	2.5	2.4	2.4
19	11.0	10.5	10.8	6.3	6.1	6.2	3.0	2.5	2.9	2.5	2.3	2.4
20	10.7	10.3	10.5	---	---	---	2.9	2.4	2.6	2.4	2.3	2.4
21	10.6	10.2	10.4	---	---	---	3.0	2.3	2.7	2.4	2.3	2.4
22	10.3	9.9	10.2	---	---	---	3.1	2.9	3.0	2.4	2.3	2.3
23	10.1	9.6	9.9	---	---	---	2.9	2.8	2.8	2.4	2.3	2.3
24	9.9	9.4	9.6	---	---	---	2.8	2.6	2.7	2.4	2.3	2.3
25	9.6	9.3	9.4	---	---	---	3.0	2.6	2.8	2.4	2.3	2.3
26	9.5	9.1	9.3	---	---	---	3.0	2.6	2.8	2.3	2.3	2.3
27	9.3	9.0	9.2	---	---	---	2.8	2.6	2.8	2.3	2.2	2.3
28	9.2	9.0	9.1	---	---	---	2.9	2.7	2.8	2.3	2.2	2.2
29	9.0	8.9	8.9	---	---	---	2.9	2.8	2.8	2.3	2.2	2.2
30	9.0	8.6	8.8	---	---	---	2.8	2.7	2.7	2.3	2.2	2.2
31	8.8	8.5	8.7	---	---	---	2.8	2.7	2.7	2.3	2.2	2.2
MONTH	---	---	---	---	---	---	---	---	---	2.8	2.2	2.4

	FEBRUARY			MARCH			APRIL			MAY		
1	2.3	2.2	2.2	2.1	1.9	2.0	2.0	1.8	1.9	---	---	---
2	2.3	2.2	2.2	2.1	2.0	2.0	2.1	1.9	1.9	3.5	3.3	3.4
3	2.3	2.2	2.2	2.1	2.0	2.0	2.1	1.9	2.0	3.6	3.5	3.5
4	2.2	2.1	2.2	2.1	1.9	2.0	2.1	2.0	2.0	3.7	3.5	3.6
5	2.2	2.1	2.2	2.1	1.9	1.9	2.1	2.0	2.0	4.0	3.5	3.8
6	2.2	2.1	2.1	2.1	1.9	1.9	2.2	2.0	2.1	4.1	3.8	3.9
7	2.2	2.1	2.1	2.1	1.9	2.0	2.3	2.1	2.1	4.2	3.8	4.1
8	2.2	2.1	2.1	2.0	1.9	1.9	2.3	2.1	2.2	4.4	4.0	4.2
9	2.2	2.1	2.1	2.1	1.9	1.9	2.3	2.0	2.2	4.5	4.1	4.4
10	2.2	2.0	2.1	2.1	1.9	1.9	2.4	2.2	2.3	5.2	4.4	4.8
11	2.2	2.1	2.1	2.1	1.9	1.9	2.4	2.3	2.3	4.9	4.1	4.5
12	2.2	2.0	2.1	2.1	1.9	1.9	2.5	2.3	2.4	5.2	4.1	4.5
13	2.2	2.0	2.1	2.1	1.9	2.0	2.5	2.4	2.4	5.6	4.2	5.0
14	2.1	2.0	2.1	2.1	1.9	2.0	2.5	2.3	2.4	5.8	4.2	4.9
15	2.2	2.1	2.1	2.2	2.0	2.1	2.5	2.4	2.4	5.1	4.4	4.7
16	2.2	2.0	2.1	2.3	2.1	2.1	2.6	2.4	2.5	5.4	4.8	5.1
17	2.2	2.0	2.1	2.4	2.1	2.2	2.7	2.5	2.6	5.4	4.9	5.2
18	2.2	2.0	2.1	2.3	2.1	2.2	2.8	2.6	2.6	6.2	4.7	5.5
19	2.1	2.0	2.0	3.4	1.8	2.3	2.8	2.6	2.7	5.9	4.9	5.4
20	2.1	2.0	2.0	2.5	2.2	2.3	2.8	2.7	2.7	6.4	4.7	5.5
21	2.1	2.0	2.0	2.5	2.2	2.3	2.7	2.7	2.7	6.0	4.8	5.5
22	2.1	2.0	2.0	2.3	2.1	2.2	2.8	2.7	2.7	6.1	5.2	5.6
23	2.1	2.0	2.0	2.3	2.1	2.2	2.8	2.7	2.7	6.0	5.3	5.8
24	2.1	2.0	2.0	2.2	2.0	2.1	2.8	2.7	2.7	6.1	5.5	5.8
25	2.2	1.9	2.0	2.2	1.9	2.0	2.8	2.7	2.7	6.3	5.4	5.8
26	2.1	1.9	2.0	2.1	1.9	1.9	---	---	---	6.3	4.9	5.7
27	2.1	2.0	2.0	2.0	1.8	1.9	---	---	---	6.7	5.3	6.0
28	2.1	2.0	2.0	2.0	1.8	1.9	---	---	---	6.4	5.4	5.9
29	---	---	---	2.0	1.8	1.9	---	---	---	5.9	5.6	5.8
30	---	---	---	2.0	1.8	1.9	---	---	---	6.1	5.8	6.0
31	---	---	---	2.0	1.8	1.9	---	---	---	6.5	5.8	6.2
MONTH	2.3	1.9	2.1	3.4	1.8	2.0	---	---	---	---	---	---

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.6	5.5	6.1	---	---	---	9.0	8.6	8.8	11.6	11.0	11.3
2	6.8	5.7	6.3	---	---	---	9.0	8.6	8.9	11.7	11.1	11.5
3	7.1	5.9	6.5	---	---	---	9.0	8.7	8.8	---	---	---
4	6.8	6.2	6.5	---	---	---	9.4	8.8	9.0	12.0	11.2	11.6
5	6.8	6.3	6.6	---	---	---	9.2	8.6	8.9	12.0	11.5	11.7
6	7.0	6.4	6.7	---	---	---	9.5	8.9	9.1	12.2	11.5	11.8
7	6.9	6.5	6.7	---	---	---	9.5	8.8	9.2	12.0	11.6	11.9
8	7.0	6.6	6.8	---	---	---	9.3	9.0	9.1	12.2	11.8	11.9
9	7.0	6.7	6.8	8.1	7.8	8.0	9.6	9.0	9.3	12.2	11.7	11.9
10	6.9	6.8	6.8	8.3	7.9	8.1	9.5	9.2	9.3	12.2	11.7	11.9
11	7.0	6.6	6.8	8.2	7.9	8.1	9.7	9.2	9.4	12.4	11.5	12.0
12	7.1	6.6	6.8	8.3	8.0	8.1	9.8	9.1	9.5	12.4	11.7	12.1
13	8.2	6.7	7.2	8.4	8.0	8.2	9.8	9.2	9.5	12.7	11.0	12.1
14	8.6	7.7	8.2	8.4	8.1	8.2	9.9	9.3	9.6	12.6	11.7	12.2
15	8.5	7.7	8.2	8.5	8.1	8.3	10.1	9.4	9.7	12.4	12.0	12.2
16	8.7	7.7	8.1	8.5	8.1	8.3	10.3	9.3	9.8	12.6	12.1	12.4
17	9.2	8.4	8.8	8.5	8.1	8.3	10.3	9.4	9.9	12.6	12.1	12.3
18	9.7	8.5	9.1	8.6	8.1	8.4	10.3	9.7	10.0	12.7	12.1	12.4
19	9.6	7.6	8.6	8.6	8.2	8.4	10.4	9.9	10.1	12.6	12.3	12.4
20	9.5	---	---	8.5	8.3	8.4	10.5	10.0	10.2	12.7	12.1	12.5
21	10.2	8.8	9.4	8.6	8.3	8.4	10.7	10.0	10.3	12.7	12.3	12.5
22	10.0	9.2	9.6	8.8	8.2	8.5	10.6	10.1	10.4	12.6	12.4	12.5
23	10.2	8.9	9.6	8.7	8.4	8.5	10.9	10.2	10.5	12.7	12.4	12.6
24	10.7	9.1	9.9	8.7	8.4	8.5	11.0	10.2	10.6	12.8	12.4	12.6
25	10.8	9.2	10.0	8.8	8.4	8.6	11.0	10.1	10.7	12.7	12.5	12.6
26	10.7	9.1	10.1	8.7	8.4	8.5	11.1	10.3	10.7	12.7	12.5	12.6
27	11.1	10.0	10.7	8.8	8.5	8.6	11.2	10.4	10.8	12.8	12.5	12.6
28	11.3	9.2	10.5	8.8	8.4	8.6	11.2	10.5	10.9	12.7	12.2	12.5
29	10.9	9.3	10.1	8.8	8.5	8.7	11.4	10.3	11.0	12.9	12.4	12.6
30	11.0	9.3	10.1	8.7	8.5	8.6	11.8	10.6	11.2	12.8	12.5	12.6
31	---	---	---	9.0	8.6	8.8	11.6	10.7	11.3	---	---	---
MONTH	11.3	---	---	---	---	---	11.8	8.6	9.9	---	---	---

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	724	606	716	665	646	663	1070	1710	5450	4380	2090	1150
2	689	588	686	663	648	653	1060	1720	6400	3750	2040	1160
3	703	588	543	668	642	643	1030	1770	7200	3230	2130	1120
4	709	596	557	662	642	691	1070	1760	6930	3060	2160	1100
5	716	618	603	666	641	719	1120	1900	7190	2880	1990	1180
6	702	577	586	655	639	737	1050	2140	7900	2750	2050	1230
7	696	e554	591	648	649	737	1030	2380	8000	2500	2040	1240
8	692	e575	609	661	626	747	1000	2660	7890	2220	1990	1220
9	748	e600	613	677	626	752	1010	2830	7860	2100	1840	1060
10	733	e610	668	685	626	753	1020	2920	7890	2070	1850	852
11	744	e620	671	693	626	765	984	3100	8120	1990	2320	839
12	742	e625	659	690	626	776	952	3230	8270	2010	e2670	833
13	738	e630	670	690	626	789	949	3270	8130	1860	e2560	841
14	732	e630	649	690	628	795	939	3320	7850	1740	e2240	838
15	704	e610	624	691	634	787	949	3500	6640	1710	2150	824
16	621	e550	571	693	637	911	968	3630	6090	1700	1830	831
17	667	e505	637	693	652	1170	1040	3910	6150	1670	1590	821
18	642	e525	665	693	650	1140	1150	4210	6460	1450	1570	818
19	621	e590	755	693	646	1070	1230	4380	6580	1430	1580	812
20	671	e610	807	693	658	1100	1330	4550	6750	1370	1800	882
21	651	e690	807	693	656	1110	1510	4680	7130	1270	2000	951
22	618	735	806	693	626	1130	1570	5020	7230	1220	1840	922
23	616	750	803	693	661	1180	1440	5990	7140	1180	1770	941
24	616	764	799	693	673	1300	1530	5900	7630	1130	1750	937
25	580	730	755	692	639	1210	1500	5500	7560	1020	1710	913
26	586	702	665	686	638	1120	1490	4990	6460	959	1340	897
27	583	719	694	665	644	1150	1540	4390	5680	946	1270	890
28	573	669	665	658	646	1180	1630	3950	5370	947	1250	875
29	587	671	666	652	---	1190	1800	3710	5300	970	1220	853
30	599	693	666	638	---	1130	1870	4500	5110	1070	1180	838
31	594	---	669	648	---	1100	---	4840	---	1430	1160	---
TOTAL	20597	18930	20875	20980	17951	29198	36831	112360	208360	58012	56980	28668
MEAN	664	631	673	677	641	942	1228	3625	6945	1871	1838	956
MAX	748	764	807	693	673	1300	1870	5990	8270	4380	2670	1240
MIN	573	505	543	638	626	643	939	1710	5110	946	1160	812
AC-FT	40850	37550	41410	41610	35610	57910	73050	222900	413300	115100	113000	56860

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1997, BY WATER YEAR (WY)

MEAN	738	649	576	556	546	654	1048	1956	2230	1608	1087	852
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1962 - 1997	
ANNUAL TOTAL	575251		629742			
ANNUAL MEAN	1572		1725		1044	
HIGHEST ANNUAL MEAN					2378	1984
LOWEST ANNUAL MEAN					568	1964
HIGHEST DAILY MEAN	7970	Jun 23	8270	Jun 12	[a]12700	May 26 1984
LOWEST DAILY MEAN	[e]505	Nov 17	[e]505	Nov 17	[b]250	Dec 13 1963
ANNUAL SEVEN-DAY MINIMUM	574	Nov 14	574	Nov 14	264	Dec 20 1963
INSTANTANEOUS PEAK FLOW			8340	Jun 12	[c]13600	May 26 1984
INSTANTANEOUS PEAK STAGE			14.03	Jun 12	16.60	May 26 1984
ANNUAL RUNOFF (AC-FT)	1141000		1249000		756100	
10 PERCENT EXCEEDS	3240		4740		1950	
50 PERCENT EXCEEDS	846		911		760	
90 PERCENT EXCEEDS	620		621		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 1996 TO SEPTEMBER 1997

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											
18...	1030	656	180	8.4	4.0	9.0	K3	K1	71	22	3.8
NOV											
14...	0930	641	204	8.3	4.0	9.6	K1	<1	80	25	4.2
MAR											
17...	1200	1100	223	8.2	4.0	9.8	--	>400	84	26	4.6
APR											
17...	1200	1050	266	8.6	6.0	9.3	K4	K2	100	31	6.1
MAY											
13...	1100	3190	--	8.4	7.5	8.4	34	--	95	27	6.8
JUL											
02...	1430	3560	172	8.3	13.5	8.1	24	25	69	22	3.4

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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										
18...	6.3	0.3	1.6	62	22	2.4	0.3	9.1	108	105
NOV										
14...	7.9	0.4	1.7	69	28	2.5	0.3	9.8	132	121
MAR										
17...	8.5	0.4	4.2	74	34	3.8	0.3	7.8	168	135
APR										
17...	9.4	0.4	2.0	75	47	4.2	0.4	8.9	164	154
MAY										
13...	9.1	0.4	1.6	66	51	2.4	0.2	10	162	148
JUL										
02...	5.0	0.3	1.4	52	25	2.1	0.3	8.2	99	99

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										
18...	0.15	191	0.02	<0.05	0.02	--	<0.2	<0.01	<0.01	0.02
NOV										
14...	0.18	228	<0.01	0.06	<0.02	--	<0.2	0.02	<0.01	<0.01
MAR										
17...	0.23	501	<0.01	0.22	0.10	0.90	1.0	0.27	0.09	0.07
APR										
17...	0.22	464	<0.01	0.15	<0.02	--	<0.2	<0.01	<0.01	<0.01
MAY										
13...	0.22	1400	<0.01	0.08	0.02	0.31	0.3	0.08	<0.01	<0.01
JUL										
02...	0.13	952	<0.01	0.09	<0.01	--	<0.2	<0.01	<0.01	<0.01

K-Based on non-ideal colony count.

09058000 COLORADO RIVER NEAR KREMMLING, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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								
18...	29	<0.5	<1	<5	<3	<10	68	<10
NOV								
14...	33	<0.5	<1	<5	<3	<10	27	<10
MAR								
17...	39	<0.5	<1	<5	<3	<10	33	<10
APR								
17...	41	<0.5	<1	<5	<3	<10	36	<10
MAY								
13...	33	<0.5	<1	<5	<3	<10	29	<10
JUL								
02...	31	<0.5	<1	<5	<3	<10	55	10

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								
18...	6	22	<10	<10	<1	130	<6	10
NOV								
14...	6	27	<10	<10	<1	160	<6	<3
MAR								
17...	8	30	10	<10	<1	170	<6	<3
APR								
17...	9	20	20	<10	<1	210	<6	<3
MAY								
13...	8	19	<10	<10	<1	200	<6	7
JUL								
02...	6	26	10	<10	<1	120	<6	<3

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	e5.8	e4.5	e3.6	e2.9	e2.4	e4.7	16	193	111	42	7.5
2	15	e5.5	e4.3	e3.4	e3.0	e2.3	e4.9	14	256	86	36	7.4
3	16	e5.9	e4.8	e3.3	e2.8	e2.3	e5.2	13	205	89	32	6.9
4	18	e5.8	e4.9	e3.5	e2.9	e2.4	e5.4	14	230	83	30	7.2
5	16	e5.8	e4.5	e3.3	e3.0	e2.4	e5.0	25	241	78	40	7.0
6	14	e5.9	e4.3	e3.2	e2.8	e2.4	e4.8	40	207	69	49	6.4
7	12	e5.7	e4.2	e3.3	e2.7	e2.4	e4.9	54	179	67	42	7.0
8	11	e5.7	e4.1	e3.5	e2.8	e2.7	e4.9	62	187	71	31	6.6
9	9.8	e5.8	e4.2	e3.5	e3.1	e2.7	e4.8	71	158	64	27	6.2
10	9.1	e5.7	e4.2	e3.5	e3.2	e2.8	e4.7	78	128	58	35	5.8
11	8.5	e5.5	e4.0	e3.5	e3.0	e3.4	e4.6	84	150	59	42	5.8
12	7.8	e5.8	e3.7	e3.1	e2.9	e3.5	e4.7	75	153	56	40	6.4
13	7.5	e5.8	e3.6	e3.3	e2.8	e3.5	e5.2	76	130	58	36	6.2
14	7.2	e5.7	e3.1	e3.2	e3.0	e3.2	e6.4	77	125	60	30	6.0
15	7.0	e5.9	e2.8	e3.1	e3.1	e3.2	e6.9	78	130	59	25	5.8
16	6.9	e5.8	e2.5	e3.2	e3.1	e3.2	e6.9	109	111	60	21	14
17	7.2	e6.1	e2.1	e3.3	e3.0	e3.5	e9.1	127	120	55	20	18
18	6.8	e6.0	e2.5	e3.5	e2.6	e3.8	13	172	141	55	17	15
19	7.9	e5.9	e3.1	e3.4	e2.5	e4.2	18	153	209	53	16	15
20	9.9	e5.8	e3.5	e3.3	e2.8	e4.3	21	178	303	62	15	18
21	7.8	e6.0	e3.6	e3.2	e2.9	e4.5	22	146	242	56	13	23
22	7.7	e6.0	e3.4	e3.1	e2.8	e4.6	19	198	208	50	14	24
23	7.5	e6.0	e3.4	e3.1	e2.7	e4.2	17	164	201	54	12	31
24	7.3	e5.8	e3.7	e3.3	e2.4	e4.2	15	135	178	81	11	25
25	7.4	e5.2	e3.7	e3.2	e2.5	e4.2	14	124	144	56	11	19
26	e7.3	e5.0	e3.7	e3.1	e2.6	e4.2	16	95	133	47	11	15
27	e7.0	e4.5	e3.6	e3.0	e2.7	e4.6	16	76	111	43	10	21
28	e6.9	e5.1	e3.5	e2.8	e2.5	e4.3	21	66	102	43	9.2	19
29	e6.3	e5.0	e3.5	e2.8	---	e4.3	20	118	105	43	8.4	15
30	e6.2	e4.8	e3.5	e2.8	---	e4.6	18	150	109	45	8.2	13
31	e6.3	---	e3.5	e2.9	---	e4.7	---	125	---	49	7.6	---
TOTAL	292.3	169.3	114.0	100.3	79.1	109.0	323.1	2913	5089	1920	741.4	383.2
MEAN	9.43	5.64	3.68	3.24	2.83	3.52	10.8	94.0	170	61.9	23.9	12.8
MAX	18	6.1	4.9	3.6	3.2	4.7	22	198	303	111	49	31
MIN	6.2	4.5	2.1	2.8	2.4	2.3	4.6	13	102	43	7.6	5.8
AC-FT	580	336	226	199	157	216	641	5780	10090	3810	1470	760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1997, BY WATER YEAR (WY)

MEAN	6.14	3.94	2.74	2.18	1.98	2.53	11.1	66.1	127	59.1	15.0	7.37
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1948 - 1997	
ANNUAL TOTAL	12129.1		12233.7			
ANNUAL MEAN	33.1		33.5		25.5	
HIGHEST ANNUAL MEAN					41.2	1984
LOWEST ANNUAL MEAN					12.9	1977
HIGHEST DAILY MEAN	234	Jun 22	303	Jun 20	362	Jun 9 1985
LOWEST DAILY MEAN	e2.1	Dec 17	e2.1	Dec 17	.40	Oct 6 1975
ANNUAL SEVEN-DAY MINIMUM	2.8	Dec 14	2.4	Mar 1	.62	Mar 28 1975
INSTANTANEOUS PEAK FLOW			414	Jun 20	560	Jun 8 1985
INSTANTANEOUS PEAK STAGE			4.88	Jun 20	a5.12	Jun 8 1985
ANNUAL RUNOFF (AC-FT)	24060		24270		18450	
10 PERCENT EXCEEDS	122		119		87	
50 PERCENT EXCEEDS	7.2		6.9		4.8	
90 PERCENT EXCEEDS	3.6		2.9		1.6	

e-Estimated.
a-Maximum gage height for period of record, 6.44 ft, Apr 13, 1977.

09058610 DICKSON CREEK NEAR VAIL, CO

LOCATION.--Lat 39°42'14", long 106°27'25", Eagle County, Hydrologic Unit 14010001, on right bank 0.6 mi upstream from Freeman Creek, 1.0 mi upstream from mouth, and 6 mi northwest of Vail.

DRAINAGE AREA.--3.41 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.5	e1.0	e.90	e.82	e.74	e1.2	2.5	46	8.1	3.9	2.8
2	1.8	1.4	e.88	e.92	e.82	e.74	e1.2	2.5	48	7.3	3.8	2.6
3	2.0	1.4	e.90	e.87	e.83	e.73	e1.2	2.5	47	8.7	3.6	2.4
4	1.8	1.5	e.94	e.76	e.81	e.70	e1.3	2.8	46	8.4	3.8	2.7
5	1.8	1.4	e.96	e.76	e.83	e.71	e1.2	4.3	46	8.1	4.7	2.5
6	1.7	e1.3	e.98	e.66	e.84	e.73	e1.2	5.9	44	7.7	4.8	2.5
7	1.7	e1.3	e1.0	e.80	e.93	e.76	e1.2	7.7	43	7.4	3.9	2.6
8	1.6	e1.3	e1.1	e.85	e.93	e.83	e1.2	9.6	43	7.1	3.6	2.4
9	1.4	e1.3	e1.0	e.85	e.87	e.88	e1.1	12	38	6.9	3.4	2.4
10	1.5	e1.3	e1.1	e.84	e.80	e.94	e1.1	14	36	6.7	4.2	2.3
11	1.4	e1.3	e1.1	e.84	e.84	e1.0	e1.1	15	38	6.5	3.8	2.3
12	1.4	e1.2	e1.0	e.81	e.87	e.98	e1.2	15	36	6.3	3.6	2.4
13	1.4	e1.2	e1.0	e.80	e.74	e.98	e1.1	16	33	6.0	3.4	2.2
14	1.5	e1.3	e.98	e.86	e.79	e1.0	e1.3	16	30	5.8	3.2	2.3
15	1.5	e1.3	e.80	e.80	e.80	e1.1	e1.4	18	28	5.5	3.1	2.4
16	1.5	e1.3	e.80	e.74	e.80	e1.1	e1.7	20	26	5.5	2.9	3.2
17	1.6	e1.2	e.68	e.74	e.82	e1.0	e2.0	25	25	4.7	2.9	2.5
18	1.5	e1.2	e.52	e.80	e.81	e1.0	e2.3	28	23	5.2	2.9	2.7
19	1.6	e1.3	e.84	e.78	e.79	e1.0	e2.7	29	23	5.7	2.9	2.5
20	1.8	e1.2	e.90	e.82	e.80	e1.1	2.9	28	23	5.7	2.8	2.7
21	1.5	e1.3	e1.0	e.80	e.83	e1.2	3.2	28	21	5.2	2.8	2.4
22	1.4	e1.3	e1.0	e.79	e.79	e1.3	2.6	37	19	5.0	2.8	2.7
23	1.5	e1.3	e.96	e.80	e.79	e1.4	2.4	32	17	4.9	2.7	e3.4
24	1.5	e1.2	e.93	e.78	e.80	e1.3	2.3	30	16	4.8	2.6	e3.1
25	1.5	e1.2	e.95	e.85	e.80	e1.2	2.2	29	15	4.4	2.6	e2.9
26	1.5	e1.1	e1.0	e.86	e.75	e1.2	2.2	26	15	4.2	2.8	e3.0
27	1.5	e1.0	e.96	e.85	e.75	e1.3	2.2	22	13	4.4	2.7	e3.2
28	1.5	e.98	e.94	e.84	e.75	e1.3	2.5	20	12	4.8	2.6	e3.0
29	1.7	e1.1	e.92	e.82	---	e1.2	2.7	33	11	4.6	2.6	e2.8
30	1.5	e1.0	e.90	e.91	---	e1.2	2.5	37	11	4.3	2.5	e2.6
31	1.5	---	e.92	e.82	---	e1.3	---	39	---	4.1	2.4	---
TOTAL	48.9	37.68	28.96	25.32	22.80	31.92	54.4	606.8	872	184.0	100.3	79.5
MEAN	1.58	1.26	.93	.82	.81	1.03	1.81	19.6	29.1	5.94	3.24	2.65
MAX	2.0	1.5	1.1	.92	.93	1.4	3.2	39	48	8.7	4.8	3.4
MIN	1.4	.98	.52	.66	.74	.70	1.1	2.5	11	4.1	2.4	2.2
AC-FT	97	75	57	50	45	63	108	1200	1730	365	199	158

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1997, BY WATER YEAR (WY)

MEAN	1.16	.98	.80	.72	.68	.77	1.50	7.51	11.1	3.49	1.65	1.37
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1972 - 1997	
ANNUAL TOTAL	1830.14		2092.58			
ANNUAL MEAN	5.00		5.73		2.65	
HIGHEST ANNUAL MEAN					5.73	1997
LOWEST ANNUAL MEAN					.58	1977
HIGHEST DAILY MEAN	36	May 19	48	Jun 2	48	Jun 2 1997
LOWEST DAILY MEAN	e.52	Dec 18	e.52	Dec 18	a.00	Aug 12 1972
ANNUAL SEVEN-DAY MINIMUM	.79	Dec 14	.73	Feb 28	.00	Sep 12 1972
INSTANTANEOUS PEAK FLOW			52	Jun 1	52	Jun 1 1997
INSTANTANEOUS PEAK STAGE			3.29	Jun 1	b3.29	Jun 1 1997
ANNUAL RUNOFF (AC-FT)	3630		4150		1920	
10 PERCENT EXCEEDS	19		20		6.4	
50 PERCENT EXCEEDS	1.7		1.5		1.1	
90 PERCENT EXCEEDS	1.0		.80		.49	

e-Estimated.
a-No flow at times some years.
b-Maximum gage height, 4.89 ft, May 9, 1984, backwater from ice.

09058700 FREEMAN CREEK NEAR MINTURN, CO

LOCATION.--Lat 39°41'54", long 106°26'42", Eagle County, Hydrologic Unit 14010001, on right bank 0.8 mi upstream from mouth and 7.5 mi north of Minturn.

DRAINAGE AREA.--2.94 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	.28	e.22	e.19	e.15	e.12	e.24	e1.1	36	2.1	.84	.50
2	.35	.28	e.21	e.19	e.16	e.12	e.23	e1.1	36	2.0	.77	.51
3	.48	.24	e.19	e.19	e.16	e.12	e.25	e1.3	32	1.8	.72	.43
4	.50	e.25	e.18	e.18	e.15	e.12	e.27	e1.5	29	1.8	.83	.58
5	.42	e.26	e.19	e.17	e.16	e.11	e.29	e2.0	26	1.7	1.3	.47
6	.34	e.27	e.20	e.19	e.17	e.12	e.26	e3.0	22	1.6	1.3	.48
7	.31	e.26	e.21	e.17	e.16	e.12	e.26	e5.4	18	1.5	.96	.55
8	.29	e.25	e.22	e.18	e.15	e.12	e.26	e7.2	17	1.5	.77	.47
9	.31	e.25	e.22	e.20	e.13	e.12	e.26	e9.0	13	1.5	.77	.42
10	.29	e.26	e.22	e.20	e.13	e.12	e.26	e11	13	1.4	1.2	.42
11	.29	e.26	e.22	e.20	e.15	e.12	e.26	e11	15	1.4	1.1	.48
12	.28	e.25	e.22	e.20	e.16	e.13	e.25	e11	10	1.3	.96	.56
13	.26	e.25	e.21	e.19	e.15	e.14	e.24	e12	8.9	1.2	.90	.44
14	.31	e.25	e.19	e.18	e.14	e.14	e.25	e13	7.8	1.1	.78	.41
15	.31	e.25	e.17	e.19	e.14	e.15	e.30	e14	7.1	1.0	.71	.52
16	.32	e.26	e.14	e.18	e.15	e.18	e.36	e16	6.5	.96	.62	1.0
17	e.31	e.25	e.11	e.17	e.16	e.18	e.43	e18	6.2	1.0	.62	.62
18	.33	e.24	e.10	e.18	e.16	e.16	e.50	e20	5.7	1.0	.61	.78
19	e.35	e.24	e.12	e.19	e.14	e.16	e.62	e21	5.6	1.1	.61	e.63
20	e.35	e.26	e.14	e.19	e.13	e.17	e.74	23	5.1	1.2	.58	e.59
21	e.34	e.25	e.16	e.18	e.13	e.19	e1.0	22	4.8	.99	.59	e.73
22	e.34	e.26	e.19	e.18	e.14	e.20	e.90	31	4.4	.94	.62	e.80
23	.34	e.27	e.19	e.17	e.15	e.22	e.80	29	4.1	.95	.56	e.87
24	.35	e.27	e.18	e.17	e.14	e.21	e.74	27	3.8	.93	.54	e.73
25	.35	e.26	e.19	e.17	e.13	e.20	e.68	26	3.6	.84	.52	e.69
26	.36	e.24	e.20	e.18	e.12	e.20	e.76	18	3.3	.83	.61	e.66
27	.34	e.23	e.20	e.17	e.13	e.20	e.88	13	3.0	.90	.57	e.73
28	.36	e.20	e.20	e.17	e.14	e.22	e1.1	11	2.8	1.0	.48	e.68
29	e.34	e.19	e.19	e.16	---	e.21	e1.3	32	2.6	.96	.46	e.63
30	.32	e.20	e.19	e.15	---	e.21	e1.2	34	2.3	.88	.46	e.58
31	.30	---	e.19	e.15	---	e.22	---	34	---	.93	.47	---
TOTAL	10.50	7.48	5.76	5.58	4.08	5.00	15.89	478.6	354.6	38.31	22.83	17.96
MEAN	.34	.25	.19	.18	.15	.16	.53	15.4	11.8	1.24	.74	.60
MAX	.50	.28	.22	.20	.17	.22	1.3	34	36	2.1	1.3	1.0
MIN	.26	.19	.10	.15	.12	.11	.23	1.1	2.3	.83	.46	.41
AC-FT	21	15	11	11	8.1	9.9	32	949	703	76	45	36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1997, BY WATER YEAR (WY)

MEAN	.27	.18	.12	.098	.090	.13	.64	6.85	6.89	1.00	.34	.27
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1965 - 1997	
ANNUAL TOTAL	580.16		966.59			
ANNUAL MEAN	1.59		2.65		1.41	
HIGHEST ANNUAL MEAN					3.54	1984
LOWEST ANNUAL MEAN					.31	1977
HIGHEST DAILY MEAN	e15	May 29	a36	Jun 1	63	May 25 1984
LOWEST DAILY MEAN	e.10	Dec 18	e.10	Dec 18	b.00	Nov 10 1964
ANNUAL SEVEN-DAY MINIMUM	.13	Dec 15	.12	Mar 1	.00	Nov 10 1964
INSTANTANEOUS PEAK FLOW			53	May 31	82	May 25 1984
INSTANTANEOUS PEAK STAGE			2.49	May 31	c2.21	May 25 1984
ANNUAL RUNOFF (AC-FT)	1150		1920		1020	
10 PERCENT EXCEEDS	4.8		8.2		3.5	
50 PERCENT EXCEEDS	.30		.34		.20	
90 PERCENT EXCEEDS	.18		.15		.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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	e.80	e.68	e.64	e.60	e.58	e.96	2.0	46	24	3.8	1.5
2	1.5	e.78	e.70	e.64	e.60	e.57	e.98	e2.5	47	23	3.2	1.5
3	2.0	e.78	e.58	e.64	e.60	e.56	e.99	e2.7	47	21	3.1	1.4
4	2.1	e.86	e.60	e.60	e.60	e.54	e1.0	e3.0	50	19	3.3	1.8
5	1.6	e.86	e.59	e.56	e.61	e.54	e.98	e3.5	50	18	6.0	1.5
6	1.5	e.84	e.65	e.58	e.62	e.55	e1.0	e4.1	56	16	5.9	1.5
7	1.4	e.78	e.68	e.47	e.52	e.56	e.98	e4.5	51	15	4.2	1.5
8	1.2	e.80	e.72	e.56	e.52	e.60	e.95	e4.4	49	14	3.2	1.3
9	1.2	e.82	e.74	e.62	e.53	e.62	e.92	e4.6	47	13	2.9	1.2
10	1.1	e.80	e.74	e.62	e.55	e.68	e.92	e6.0	40	12	5.6	1.1
11	1.1	e.80	e.74	e.62	e.63	e.72	e.95	e7.0	43	11	4.7	1.5
12	1.0	e.78	e.72	e.62	e.64	e.78	e1.0	e11	43	10	4.2	1.4
13	1.0	e.78	e.71	e.58	e.58	e.80	e.98	e12	39	9.1	3.8	1.1
14	1.1	e.76	e.63	e.62	e.56	e.75	e.92	e11	37	8.4	3.5	1.1
15	1.0	e.80	e.59	e.61	e.59	e.74	e.93	e11	36	7.8	2.9	1.1
16	.97	e.81	e.58	e.58	e.60	e.85	.84	e13	34	7.3	2.6	2.4
17	.93	e.78	e.35	e.52	e.60	e.82	.90	e14	34	6.7	2.8	1.5
18	e.71	e.77	e.37	e.60	e.62	e.78	1.5	e18	35	6.5	2.5	2.1
19	e.74	e.78	e.45	e.58	e.62	e.74	2.1	e25	43	6.5	2.5	1.7
20	e.84	e.79	e.54	e.58	e.60	e.75	2.3	e38	47	6.2	2.2	2.8
21	e.84	e.80	e.70	e.60	e.59	e.83	2.2	e38	47	5.4	2.2	2.1
22	e.76	e.80	e.70	e.58	e.59	e.82	1.9	44	46	5.0	2.5	3.2
23	e.71	e.83	e.66	e.57	e.63	e.78	1.7	45	42	5.7	1.9	3.2
24	e.84	e.84	e.66	e.60	e.62	e.78	1.7	39	39	5.4	1.8	2.2
25	e.84	e.82	e.67	e.61	e.59	e.82	1.7	34	35	4.5	1.7	1.7
26	e.86	e.80	e.70	e.64	e.58	e.90	1.8	32	31	4.3	1.8	1.7
27	e.82	e.72	e.69	e.64	e.60	e.96	2.0	27	28	4.6	1.8	2.0
28	e.86	e.64	e.68	e.62	e.58	e1.0	2.4	23	28	4.6	1.6	1.6
29	e.88	e.64	e.66	e.60	---	e.98	2.1	34	27	4.4	1.5	1.4
30	e.84	e.69	e.65	e.62	---	e.96	2.0	38	26	4.2	1.5	1.3
31	e.82	---	e.64	e.62	---	e.96	---	40	---	4.3	1.4	---
TOTAL	33.66	23.55	19.77	18.54	16.57	23.32	41.60	591.3	1223	306.9	92.6	51.4
MEAN	1.09	.78	.64	.60	.59	.75	1.39	19.1	40.8	9.90	2.99	1.71
MAX	2.1	.86	.74	.64	.64	1.0	2.4	45	56	24	6.0	3.2
MIN	.71	.64	.35	.47	.52	.54	.84	2.0	26	4.2	1.4	1.1
AC-FT	67	47	39	37	33	46	83	1170	2430	609	184	102

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1997, BY WATER YEAR (WY)

MEAN	1.30	.96	.78	.68	.65	.73	1.61	11.1	23.3	8.57	2.24	1.41
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1965 - 1997	
ANNUAL TOTAL	1762.33		2442.21			
ANNUAL MEAN	4.82		6.69		4.45	
HIGHEST ANNUAL MEAN					8.05	1983
LOWEST ANNUAL MEAN					1.83	1977
HIGHEST DAILY MEAN	35	Jun 15	56	Jun 6	81	Jun 20 1983
LOWEST DAILY MEAN	e.35	Dec 17	e.35	Dec 17	.32	Jan 7 1979
ANNUAL SEVEN-DAY MINIMUM	.50	Dec 14	.50	Dec 14	.33	Jan 6 1979
INSTANTANEOUS PEAK FLOW			67	Jun 6	107	Jun 17 1995
INSTANTANEOUS PEAK STAGE			1.60	Jun 6	a1.86	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	3500		4840		3220	
10 PERCENT EXCEEDS	18		29		15	
50 PERCENT EXCEEDS	1.0		1.0		1.1	
90 PERCENT EXCEEDS	.73		.59		.58	

e-Estimated.
a-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 SW1/4NE1/4 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	27	e18	18	15	15	42	105	891	296	82	25
2	35	e26	e19	18	14	14	42	93	857	254	70	27
3	38	e27	e17	20	15	14	43	88	856	250	64	25
4	43	e27	e18	e18	15	14	49	101	965	232	64	28
5	37	27	e17	e16	15	e12	47	163	992	223	84	26
6	33	27	e20	e17	e14	e13	52	240	881	207	109	25
7	30	e26	e19	e14	e13	e13	50	303	811	198	86	27
8	27	e26	e20	e13	e12	e13	41	338	731	195	67	25
9	26	e26	e19	e16	e13	14	42	379	639	183	59	23
10	25	e25	e21	e16	e14	15	41	422	581	168	78	21
11	24	e25	e21	e17	e15	16	40	429	629	168	85	23
12	23	e25	e20	e18	e14	20	41	428	600	154	82	27
13	22	e25	e19	e17	e14	22	41	438	533	148	74	22
14	22	e25	e18	e17	e12	25	38	436	480	145	67	21
15	22	25	e15	e16	e14	21	38	442	477	136	58	21
16	23	29	e17	e14	13	23	41	494	449	132	51	38
17	23	35	e15	e12	13	25	55	567	458	120	49	41
18	22	26	e10	e13	13	26	76	670	465	118	46	39
19	26	23	e14	e14	e13	28	96	634	531	117	45	40
20	31	23	e16	e15	e14	33	117	659	652	122	41	61
21	33	26	e17	e15	e13	39	128	604	570	108	40	67
22	36	26	e18	e16	e11	41	104	861	511	95	41	74
23	36	27	e18	e16	e13	43	93	738	497	90	37	85
24	30	24	e18	e15	14	43	91	595	463	135	33	69
25	26	25	e17	e15	18	40	84	491	412	95	31	57
26	27	22	e19	e16	20	45	90	403	386	77	34	46
27	27	e20	e20	e17	16	44	93	324	344	69	32	44
28	32	e19	e20	e16	16	41	123	274	324	73	30	41
29	30	e21	20	e15	---	43	134	578	315	69	29	34
30	28	e20	20	e14	---	42	115	714	306	80	27	34
31	29	---	19	16	---	41	---	714	---	97	26	---
TOTAL	904	755	559	490	396	838	2087	13725	17606	4554	1721	1136
MEAN	29.2	25.2	18.0	15.8	14.1	27.0	69.6	443	587	147	55.5	37.9
MAX	43	35	21	20	20	45	134	861	992	296	109	85
MIN	22	19	10	12	11	12	38	88	306	69	26	21
AC-FT	1790	1500	1110	972	785	1660	4140	27220	34920	9030	3410	2250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1997, BY WATER YEAR (WY)

MEAN	19.6	17.5	15.0	13.4	13.0	15.5	53.4	261	350	113	31.9	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1944 - 1997	
ANNUAL TOTAL	36727		44771			
ANNUAL MEAN	100		123		76.9	
HIGHEST ANNUAL MEAN					127	1984
LOWEST ANNUAL MEAN					27.2	1977
HIGHEST DAILY MEAN	614	Jun 6	992	Jun 5	e1300	May 25 1984
LOWEST DAILY MEAN	a10	Jan 15	e10	Dec 18	b1.9	Sep 1 1954
ANNUAL SEVEN-DAY MINIMUM	11	Jan 12	13	Feb 16	2.3	Sep 17 1954
INSTANTANEOUS PEAK FLOW			1190	Jun 1	e,c,d1300	May 25 1984
INSTANTANEOUS PEAK STAGE			5.63	Jun 1		
ANNUAL RUNOFF (AC-FT)	72850		88800		55710	
10 PERCENT EXCEEDS	386		453		260	
50 PERCENT EXCEEDS	27		33		19	
90 PERCENT EXCEEDS	14		15		10	

e-Estimated.
a-Also occurred Dec 18.
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.--Records good except for estimated daily discharges, which are poor. 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	13	11	11	12	11	26	75	401	19	13	1.7
2	2.3	11	11	11	12	11	24	63	406	17	5.7	1.6
3	2.6	12	e10	12	12	11	23	59	408	15	2.9	1.7
4	2.4	14	11	12	9.0	11	29	87	371	14	3.9	6.8
5	2.2	12	11	11	12	11	26	157	355	13	5.3	5.3
6	2.1	11	11	11	12	11	23	225	315	12	18	2.6
7	2.1	10	12	e10	e11	11	22	264	300	12	21	8.8
8	2.1	12	12	e11	e10	11	22	311	296	11	6.5	8.3
9	2.2	13	12	11	e11	11	21	308	294	11	2.9	7.8
10	2.1	11	12	12	e12	11	20	322	237	10	44	7.6
11	2.2	11	12	12	e12	12	18	323	230	9.6	39	7.3
12	2.2	11	12	12	e11	12	18	326	181	8.7	21	7.4
13	2.1	12	12	11	e11.0	13	17	309	159	6.5	26	7.2
14	2.2	12	11	11	e11	12	17	321	145	4.7	15	7.1
15	2.2	12	e10	11	11	12	18	357	141	3.5	8.9	7.1
16	2.2	12	12	e9.8	e11	13	21	393	117	2.9	4.1	5.1
17	2.3	9.2	e10	e9.0	9.3	13	31	381	112	2.8	5.1	2.4
18	4.1	14	e8.0	8.7	12	13	46	401	102	2.9	7.9	2.2
19	13	13	e9.0	e10	e12	14	62	426	104	5.7	11	6.0
20	14	14	e9.8	e10	e11	15	66	409	80	9.2	22	108
21	9.5	13	10	11	e11	17	79	404	69	4.2	9.4	101
22	10	15	11	9.8	e10	19	66	392	61	2.5	4.6	41
23	11	17	11	11	e11	23	64	363	54	2.6	2.6	36
24	11	14	11	9.0	e11	24	61	358	50	3.2	2.1	30
25	13	13	e12	8.2	e11	25	56	358	42	3.1	1.9	27
26	12	13	12	11	11	26	67	300	33	2.6	3.3	26
27	12	10	12	12	11	25	74	249	31	2.5	3.0	35
28	13	6.7	12	e11	11	25	101	241	30	2.5	2.0	26
29	15	10	11	12	---	26	108	450	26	5.6	1.9	23
30	13	12	11	e12	---	24	85	423	21	6.6	2.1	22
31	13	---	11	12	---	24	---	405	---	15	1.8	---
TOTAL	201.4	362.9	342.8	335.5	311.3	497	1311	9460	5171	240.9	317.9	579.0
MEAN	6.50	12.1	11.1	10.8	11.1	16.0	43.7	305	172	7.77	10.3	19.3
MAX	15	17	12	12	12	26	108	450	408	19	44	108
MIN	2.1	6.7	8.0	8.2	9.0	11	17	59	21	2.5	1.8	1.6
AC-FT	399	720	680	665	617	986	2600	18760	10260	478	631	1150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1997, BY WATER YEAR (WY)

MEAN	8.56	11.1	9.91	9.49	9.49	12.3	52.6	176	79.0	10.7	5.22	5.82
MAX	20.4	16.9	14.1	13.9	12.8	20.0	95.1	305	190	26.6	11.7	19.3
(WY)	1987	1987	1985	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1985 - 1997	
ANNUAL TOTAL	15266.3		19130.7			
ANNUAL MEAN	41.7		52.4		32.6	
HIGHEST ANNUAL MEAN					52.4	1997
LOWEST ANNUAL MEAN					17.8	1990
HIGHEST DAILY MEAN	499	May 17	450	May 29	499	May 17 1996
LOWEST DAILY MEAN	[a]2.1	Oct 6	1.6	Sep 2	1.2	Aug 15 1990
ANNUAL SEVEN-DAY MINIMUM	2.1	Oct 5	1.8	Aug 28	1.3	Aug 25 1990
INSTANTANEOUS PEAK FLOW			614	May 29	746	May 18 1996
INSTANTANEOUS PEAK STAGE			4.29	May 29	4.67	May 18 1996
ANNUAL RUNOFF (AC-FT)	30280		37950		23630	
10 PERCENT EXCEEDS	138		227		94	
50 PERCENT EXCEEDS	10		12		10	
90 PERCENT EXCEEDS	2.6		2.9		2.7	

e-Estimated.
a-Also occurred Oct 7-8, 10 and 13.

09060770 ROCK CREEK AT McCOY, CO

LOCATION.--Lat 39°54'44", long 106°43'30", in SE¼NE¼ sec.6, T.2 S., R.83 W., Eagle County, Hydrologic Unit 14010001, on right bank 1,900 ft downstream from bridge on State Highway 131, and 0.25 mi south of McCoy.

DRAINAGE AREA.--198 mi^2.

PERIOD OF RECORD.--October 1982 to September 1983 (measurements only), October 1983 to September 1997 (discontinued).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 6,660 ft above sea level, from topographic map. Prior to Oct. 1, 1989, at datum 1.0 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of approximately 5,000 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	38	e26	e24	e25	e25	99	193	544	36	60	23
2	17	28	e28	e24	e25	e24	75	171	522	31	46	23
3	19	35	e24	31	e25	24	74	151	540	28	40	22
4	20	37	e26	29	e24	24	101	176	436	26	47	32
5	18	37	e25	e23	e25	e23	81	299	394	24	53	38
6	17	27	e28	e24	e24	e24	67	418	328	24	85	29
7	17	27	e27	e19	e23	e25	64	524	328	25	87	42
8	17	30	e28	e25	e21	e25	61	550	347	23	51	44
9	17	35	e28	e25	e22	25	64	535	423	22	43	35
10	17	30	e29	e25	e23	27	61	535	348	21	123	30
11	17	30	e28	e26	e26	27	53	514	334	22	120	27
12	17	31	e27	e26	e25	29	53	522	271	23	92	28
13	17	33	e27	e26	e25	28	52	472	212	25	109	28
14	16	37	e26	e25	e24	30	53	505	177	23	72	28
15	16	33	e19	e24	26	30	63	528	171	22	59	31
16	16	25	e23	e19	e25	39	84	593	150	22	49	35
17	16	29	e18	e18	e26	33	128	645	141	23	48	31
18	18	35	e14	e22	26	35	170	615	129	22	50	30
19	30	40	e19	e23	e26	36	185	589	136	30	53	39
20	30	46	e21	e23	e27	40	189	553	113	34	66	227
21	24	41	e24	e25	e25	51	223	607	100	28	55	257
22	23	47	e24	e24	e22	101	154	725	93	24	43	116
23	25	59	e24	e25	e25	141	150	665	80	25	35	87
24	29	41	e23	e23	e26	136	154	555	69	37	29	73
25	31	35	e23	e24	e24	85	131	483	64	31	32	63
26	30	38	e25	e25	e25	86	150	465	57	26	32	61
27	28	29	e26	e24	e25	96	151	395	55	26	36	80
28	32	27	e26	e23	25	84	201	368	55	29	29	64
29	44	37	e25	e24	---	92	248	689	49	36	33	57
30	33	29	e24	e23	---	76	215	758	43	41	29	53
31	33	---	e24	e24	---	87	---	570	---	57	25	---
TOTAL	702	1046	759	745	690	1608	3554	15368	6709	866	1731	1733
MEAN	22.6	34.9	24.5	24.0	24.6	51.9	118	496	224	27.9	55.8	57.8
MAX	44	59	29	31	27	141	248	758	544	57	123	257
MIN	16	25	14	18	21	23	52	151	43	21	25	22
AC-FT	1390	2070	1510	1480	1370	3190	7050	30480	13310	1720	3430	3440

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1997, BY WATER YEAR (WY)

MEAN	25.3	28.7	22.7	21.1	22.5	33.9	126	311	122	27.5	21.7	22.2
MAX	50.0	46.0	38.8	31.1	35.8	68.5	272	618	299	72.1	59.0	57.8
(WY)	1987	1987	1986	1986	1986	1986	1986	1984	1984	1984	1984	1997
MIN	11.0	17.3	12.4	10.7	13.8	19.1	47.1	89.3	14.9	5.84	3.99	5.93
(WY)	1993	1994	1995	1994	1995	1991	1995	1990	1994	1994	1994	1990

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1984 - 1997	
ANNUAL TOTAL	26261.9		35511			
ANNUAL MEAN	71.8		97.3		65.6	
HIGHEST ANNUAL MEAN					115	1986
LOWEST ANNUAL MEAN					28.5	1994
HIGHEST DAILY MEAN	736	May 17	758	May 30	1270	May 16 1984
LOWEST DAILY MEAN	9.9	Aug 6	e14	Dec 18	1.5	Jul 1 1990
ANNUAL SEVEN-DAY MINIMUM	11	Aug 1	16	Oct 11	2.4	Aug 16 1994
INSTANTANEOUS PEAK FLOW			1110	May 30	1760	May 16 1984
INSTANTANEOUS PEAK STAGE			4.50	May 30	a4.74	May 16 1984
ANNUAL RUNOFF (AC-FT)	52090		70440		47520	
10 PERCENT EXCEEDS	203		328		163	
50 PERCENT EXCEEDS	24		31		26	
90 PERCENT EXCEEDS	16		22		11	

e-Estimated.
a-Datum then in use, from outside high-water mark.

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, 1.0 mi west of Camp Hale Campground, and 0.25 mi east of East Fork Eagle ford on East Fork Eagle Road.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--November 1996 to September 1997.

REMARKS.--No water-quality data at this site before November 1996.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)
NOV										
06...	1100	1.4	185	8.3	0.5	11.1	<1	<1	91	21
DEC										
17...	1145	1.1	224	8.1	0.0	--	<1	<1	--	--
MAR										
11...	0945	0.78	211	8.1	0.0	9.3	K1	<1	110	26
MAY										
21...	1110	48	129	7.9	4.0	9.7	K1	K1	65	15
AUG										
19...	0820	3.6	160	7.7	5.5	8.8	K5	K2	81	19
SEP										
09...	1550	2.7	166	8.1	12.0	7.8	K3	K2	--	--

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)	ALKA-LINITY 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										
06...	9.3	1.7	0.1	0.8	88	12	0.3	0.1	5.3	104
DEC										
17...	--	--	--	--	--	--	--	--	--	--
MAR										
11...	10	1.8	0.1	0.8	99	14	0.2	0.1	5.4	118
MAY										
21...	6.6	0.90	0.0	0.6	59	10	0.2	<0.1	4.5	73
AUG										
19...	7.9	1.5	0.1	0.8	80	7.1	0.1	0.1	5.9	91
SEP										
09...	--	--	--	--	79	--	--	--	--	--

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)
NOV										
06...	0.14	0.39	0.01	0.08	0.03	<0.2	<0.2	0.02	<0.01	<0.01
DEC										
17...	--	--	0.01	0.10	0.02	<0.2	<0.2	<0.01	<0.01	<0.01
MAR										
11...	0.16	0.25	<0.01	0.12	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01
MAY										
21...	0.10	9.52	<0.01	<0.05	<0.02	0.4	<0.2	<0.01	<0.01	<0.01
AUG										
19...	0.12	0.88	<0.01	0.06	0.02	<0.2	<0.2	<0.01	<0.01	<0.01
SEP										
09...	--	--	<0.01	0.05	<0.02	<0.2	<0.2	<0.01	<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, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV										
06...	<1	<1	280	<1	50	44	<0.1	<1	<0.2	3
MAR										
11...	<1	<1	400	<1	50	47	<0.1	<1	<0.2	5
MAY										
21...	<1	<1	340	<1	20	4.8	<0.1	<1	<0.2	6
AUG										
19...	<1	<1	210	<1	26	23	<0.1	<1	<0.2	<3

K-Based on non-ideal colony count.

392513106184500 SOUTH FORK EAGLE RIVER NEAR RED CLIFF, CO.

WATER-QUALITY RECORDS

LOCATION.--Lat 39°25'13", long 106°18'45", in SE¼ SE¼ sec. 22, T. 7 S, R. 80 W., Eagle County, Hydrologic Unit 14010003, at Resolution Road No. 702, 0.25 mi north of Camp Hale Campground, and 100 ft upstream of the confluence with East Fork Eagle River.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--November 1996 to September 1997.

REMARKS.--No water-quality data at this site before November 1996. Sampled in conjunction with organic sampling of the Upper Eagle River basin.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)
NOV								
06...	1215	3.3	85	7.67	0.0	10.3	<1	<1
AUG								
19...	1015	2.2	101	7.85	9.0	9.0	--	--

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	e13	e11	e11	e10	e9.6	e17	50	348	120	28	e22
2	16	e12	e12	e11	e10	e9.6	e17	46	423	113	26	e22
3	16	e11	e10	e12	e10	e9.6	e16	43	423	106	25	e21
4	16	e13	e11	e11	e10	e9.8	e16	49	484	98	25	e22
5	17	e14	e10	e9.4	e10	e9.0	e18	71	479	86	34	e22
6	16	e13	e12	e10	e11	e9.2	e16	96	422	79	39	e21
7	16	e12	e12	e8.2	e10	e9.6	e16	115	389	74	42	e22
8	16	e12	e13	e9.6	e9.0	e10	e16	133	399	71	33	e21
9	17	e13	e13	e11	e8.8	e10	e15	150	377	68	29	e21
10	17	e12	e13	e11	e9.2	e11	e15	167	340	63	34	21
11	16	e12	e14	e11	e10	e12	e16	166	314	60	33	20
12	16	11	e13	e11	e11	e13	e15	163	299	56	32	21
13	15	11	e12	e10	e11	e14	e15	167	281	51	31	20
14	15	e11	e12	e11	e9.6	e13	e16	177	260	48	36	20
15	15	e11	e10	e11	e10	e12	16	183	241	45	30	19
16	e15	e12	e11	e10	e10	e15	18	204	229	43	27	21
17	16	e11	e9.0	e9.0	e10	e15	23	226	235	42	26	20
18	e15	e11	e6.0	e9.4	e11	e14	30	242	256	41	26	19
19	e15	e12	e8.0	e10	e11	e13	35	253	268	41	26	19
20	e16	e12	e9.0	e9.6	e11	e14	42	265	278	39	26	19
21	e14	e12	e12	e10	e10	e15	49	256	267	37	26	19
22	e11	e13	e13	e9.6	e10	e16	45	301	251	35	25	21
23	e12	e13	e12	e9.4	e10	e17	43	288	235	35	e24	21
24	e12	e13	e11	e10	e11	e18	42	285	215	35	e23	20
25	12	e13	e12	e9.6	e10	e17	39	276	196	31	27	18
26	e13	e13	e12	e11	e10	e16	39	247	179	30	28	18
27	e12	e13	e13	e11	e11	e16	42	213	168	30	28	18
28	e12	e11	e13	e11	e9.8	e16	50	192	153	32	25	18
29	e13	e11	e12	e10	---	e17	53	215	139	31	e23	17
30	e13	e12	e12	e10	---	e16	52	242	128	31	e22	17
31	e13	---	e12	e11	---	e16	---	262	---	29	e22	---
TOTAL	454	363	355.0	318.8	284.4	412.4	842	5743	8676	1700	881	600
MEAN	14.6	12.1	11.5	10.3	10.2	13.3	28.1	185	289	54.8	28.4	20.0
MAX	17	14	14	12	11	18	53	301	484	120	42	22
MIN	11	11	6.0	8.2	8.8	9.0	15	43	128	29	22	17
AC-FT	901	720	704	632	564	818	1670	11390	17210	3370	1750	1190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1997, BY WATER YEAR (WY)

MEAN	16.2	13.5	11.3	10.4	10.2	11.8	32.8	158	200	57.2	25.9	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1911 - 1997	
ANNUAL TOTAL	20108.0		20629.6			
ANNUAL MEAN	54.9		56.5		47.2	
HIGHEST ANNUAL MEAN					90.2	1912
LOWEST ANNUAL MEAN					16.5	1981
HIGHEST DAILY MEAN	465	May 19	484	Jun 4	900	Jun 5 1912
LOWEST DAILY MEAN	e6.0	Dec 18	e6.0	Dec 18	a1.0	Oct 15 1917
ANNUAL SEVEN-DAY MINIMUM	9.1	Jan 1	9.3	Dec 14	3.8	Jan 31 1989
INSTANTANEOUS PEAK FLOW			533	Jun 4	b1010	Jun 5 1912
INSTANTANEOUS PEAK STAGE			5.41	Jun 4	c4.00	Jun 5 1912
ANNUAL RUNOFF (AC-FT)	39880		40920		34210	
10 PERCENT EXCEEDS	212		215		131	
50 PERCENT EXCEEDS	16		16		16	
90 PERCENT EXCEEDS	10		10		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 September 1997.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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											
06...	1600	15	222	8.1	1.5	10.6	<1	<1	110	25	11
DEC											
17...	1500	8.8	243	8.2	0.0	--	K1	<1	--	--	--
MAR											
11...	1220	13	229	8.3	1.0	12.2	K13	<1	110	26	12
MAY											
21...	0915	248	135	8.0	4.0	9.7	K1	K1	66	15	6.7
AUG											
19...	1145	26	220	8.2	10.5	8.1	K2	<1	110	26	12
SEP											
09...	1310	21	221	8.2	14.5	7.3	K1	<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)	ALKA-LINITY 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)
NOV											
06...	2.6	0.1	0.9	108	10	0.8	0.1	7.6	123	0.17	4.98
DEC											
17...	--	--	--	--	--	--	--	--	--	--	--
MAR											
11...	2.6	0.1	0.9	113	10	0.7	0.1	7.9	128	0.17	4.47
MAY											
21...	1.3	0.1	0.7	62	6.9	0.6	<0.1	6.0	75	0.10	50.3
AUG											
19...	2.2	0.1	0.9	109	8.8	0.5	0.1	7.6	123	0.17	8.66
SEP											
09...	--	--	--	110	--	--	--	--	--	--	--

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								
06...	0.02	<0.05	0.040	<0.2	<0.2	<0.01	<0.01	<0.01
DEC								
17...	0.01	0.08	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
MAR								
11...	<0.01	0.09	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
MAY								
21...	<0.01	0.06	<0.015	<0.2	<0.2	0.02	<0.01	<0.01
AUG								
19...	<0.01	0.06	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
SEP								
09...	<0.01	<0.05	<0.015	<0.2	<0.2	<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 1996 TO SEPTEMBER 1997

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										
06...	<1	<1	110	<1	<10	3	<0.1	<1	<0.2	<3
MAR										
11...	<1	<1	200	<1	10	<1	<0.1	<1	<0.2	<3
MAY										
21...	<1	<1	710	<1	40	5	<0.1	<1	<0.2	6
AUG										
19...	<1	<1	150	<1	<10	3	<0.1	<1	<0.2	4

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT				
03...	0945	16	229	8.0
DEC				
05...	1345	18	231	0.0
JAN				
14...	0830	11	227	0.0
APR				
14...	1300	24	235	3.5
MAY				
13...	1130	164	172	6.0
29...	1105	213	128	4.0
JUN				
03...	1340	382	113	9.0
25...	1140	204	134	9.0
JUL				
30...	1230	32	207	12.5

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	e2.3	e1.8	e1.6	e1.6	e1.4	e2.3	4.4	43	57	e9.0	e4.5
2	3.1	e2.2	e1.7	e1.6	e1.5	e1.4	e2.2	4.2	50	54	e8.8	e4.4
3	3.3	e2.2	e1.6	e1.6	e1.5	e1.4	e2.2	4.2	59	51	e8.8	e4.3
4	3.1	e2.3	e1.7	e1.5	e1.5	e1.4	e2.3	4.4	70	48	e9.0	e4.3
5	3.2	e2.4	e1.6	e1.4	e1.5	e1.3	e2.3	4.8	82	46	e9.6	e4.2
6	2.9	e2.3	e1.7	e1.5	e1.5	e1.4	e2.1	5.5	100	45	e9.2	e4.0
7	2.9	e2.2	e1.8	e1.3	e1.4	e1.4	e2.1	6.3	105	44	e8.6	e3.8
8	2.8	e2.1	e1.9	e1.5	e1.3	e1.5	e2.1	7.3	115	48	e8.0	e3.9
9	2.8	e2.2	e1.9	e1.6	e1.3	e1.6	e2.1	8.7	e80	e42	e8.6	4.3
10	2.7	e2.1	e1.9	e1.6	e1.4	e1.7	e2.1	10	e82	e36	e8.0	4.2
11	2.6	e2.0	e1.9	e1.6	e1.5	e1.8	e2.1	12	e70	e34	e7.4	4.2
12	2.6	e2.0	e1.9	e1.5	e1.5	e1.9	e2.0	13	e60	e32	e7.4	4.7
13	2.6	e2.0	e1.8	e1.5	e1.4	e2.0	e2.0	13	e50	e30	e7.8	4.4
14	2.6	e2.1	e1.7	e1.6	e1.4	e1.9	e2.0	14	e46	e27	e7.4	4.4
15	2.6	e2.1	e1.5	e1.6	e1.5	e1.8	e2.0	16	e45	e25	e6.8	4.4
16	2.6	e2.1	e1.4	e1.5	e1.4	e2.0	e2.1	18	e48	e23	e6.8	4.5
17	2.4	e2.1	e1.2	e1.5	e1.5	e2.1	e2.3	22	e50	e21	e7.0	4.3
18	2.4	e2.0	e1.3	e1.7	e1.5	e1.9	2.6	24	e56	e20	e6.8	4.4
19	2.5	e2.1	e1.4	e1.6	e1.5	e2.0	3.0	26	e62	e19	e6.6	4.3
20	2.6	e2.1	e1.5	e1.7	e1.5	e2.1	3.4	29	e72	e19	e6.2	4.5
21	e2.4	e2.1	e1.6	e1.6	e1.4	e2.2	3.9	30	e86	e18	e6.2	4.4
22	e2.3	e2.2	e1.7	e1.6	e1.4	e2.4	4.0	32	e80	e17	e5.8	4.6
23	e2.4	e2.2	e1.6	e1.6	e1.5	e2.5	4.0	32	e78	e17	e5.4	4.5
24	e2.5	e2.1	e1.6	e1.6	e1.4	e2.5	4.0	33	e76	e16	e4.9	4.4
25	e2.4	e2.0	e1.7	e1.7	e1.4	e2.4	3.8	34	e78	e15	e5.2	4.4
26	e2.5	e1.9	e1.8	e1.8	e1.5	e2.3	3.8	33	77	e14	e5.0	4.5
27	e2.4	e1.8	e1.7	e1.7	e1.5	e2.3	3.9	32	69	e13	e4.9	4.6
28	e2.4	e1.7	e1.7	e1.6	e1.4	e2.4	4.3	30	63	e12	e4.6	4.4
29	e2.5	e1.7	e1.7	e1.6	---	e2.3	4.4	31	61	e11	e4.6	4.2
30	e2.4	e1.8	e1.7	e1.6	---	e2.2	4.4	34	59	e10	e4.8	4.1
31	e2.4	---	e1.7	e1.5	---	e2.3	---	37	---	e9.8	e4.6	---
TOTAL	82.1	62.4	51.7	48.9	40.7	59.8	85.8	604.8	2072	873.8	213.8	130.1
MEAN	2.65	2.08	1.67	1.58	1.45	1.93	2.86	19.5	69.1	28.2	6.90	4.34
MAX	3.3	2.4	1.9	1.8	1.6	2.5	4.4	37	115	57	9.6	4.7
MIN	2.3	1.7	1.2	1.3	1.3	1.3	2.0	4.2	43	9.8	4.6	3.8
AC-FT	163	124	103	97	81	119	170	1200	4110	1730	424	258

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1997, BY WATER YEAR (WY)

MEAN	2.77	1.95	1.58	1.34	1.25	1.36	2.18	12.8	46.5	21.9	6.93	3.89
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1965 - 1997	
ANNUAL TOTAL	4228.5		4325.9			
ANNUAL MEAN	11.6		11.9		8.71	
HIGHEST ANNUAL MEAN					17.4	1984
LOWEST ANNUAL MEAN					3.61	1977
HIGHEST DAILY MEAN	[a]80	Jun 9	115	Jun 8	140	Jun 20 1983
LOWEST DAILY MEAN	[e,b]1.2	Jan 4	[e]1.2	Dec 17	.30	Feb 21 1967
ANNUAL SEVEN-DAY MINIMUM	1.3	Jan 1	1.4	Feb 28	.40	Feb 8 1967
INSTANTANEOUS PEAK FLOW			129	Jun 7	[c]155	Jun 20 1983
INSTANTANEOUS PEAK STAGE			2.61	Jun 7	[c]3.61	Jun 20 1983
ANNUAL RUNOFF (AC-FT)	8390		8580		6310	
10 PERCENT EXCEEDS	43		44		25	
50 PERCENT EXCEEDS	2.9		2.6		2.4	
90 PERCENT EXCEEDS	1.5		1.5		1.2	

e-Estimated.
a-Also occurred Jun 10.
b-Also occurred Dec 17.
c-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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	5.7	e5.4	e4.8	e4.6	e4.2	e7.3	16	124	138	19	9.7
2	7.3	e5.6	e5.2	e4.9	e4.6	e4.2	e7.1	15	170	127	18	9.3
3	7.5	e5.3	e4.7	e4.8	e4.5	e4.3	e7.1	15	208	120	18	9.5
4	7.2	e5.5	e4.7	e4.3	e4.7	e4.0	e7.4	15	228	114	18	9.3
5	7.3	e5.6	e5.0	e4.3	e4.6	e4.0	e7.1	17	298	106	19	9.1
6	7.0	e5.2	e5.3	e3.8	e4.5	e4.1	e6.9	20	347	98	20	9.1
7	6.8	e5.0	e5.6	e3.7	e4.3	e4.3	e6.6	24	305	89	18	9.1
8	6.7	e5.2	e5.4	e4.8	e3.9	e4.4	e6.6	31	293	82	17	8.6
9	6.6	e5.1	e5.6	e4.7	e4.2	e4.9	e6.7	39	233	76	16	8.5
10	6.5	e5.0	e5.7	e4.7	e4.2	e5.4	e7.0	44	224	71	18	8.3
11	6.3	e4.9	e5.6	e4.7	e4.6	e5.7	e6.7	49	261	66	17	8.4
12	6.3	e4.8	e5.5	e4.6	e4.8	e6.0	e6.4	53	211	61	16	8.8
13	6.3	e4.9	e5.4	e4.5	e4.5	e5.9	e6.4	55	149	57	16	8.3
14	6.3	e4.8	e5.1	e4.7	e4.4	e5.6	e6.4	57	120	52	17	8.1
15	6.1	e5.2	e4.7	e4.6	e4.5	e5.7	e6.5	59	97	47	15	8.3
16	6.3	e5.1	e4.3	e4.1	e4.4	e6.4	e7.8	63	90	44	14	8.7
17	6.2	e5.2	e3.3	e4.2	e4.7	e6.0	e8.8	71	96	42	15	8.0
18	6.5	e5.2	e3.2	e4.3	e4.7	e5.8	10	74	117	40	14	7.9
19	6.8	e5.3	e3.7	e4.5	e4.8	e5.8	11	79	147	40	14	7.8
20	6.6	e5.4	e4.5	e4.6	e4.5	e6.2	13	75	174	37	13	8.2
21	e6.5	e5.2	e5.4	e4.6	e3.3	e6.5	15	80	268	34	13	7.9
22	e6.3	e5.3	e5.3	e4.4	e4.3	e7.1	16	82	269	32	13	8.3
23	e6.2	e5.4	e5.1	e4.6	e4.7	e7.4	15	81	243	31	12	8.1
24	6.1	e5.3	e4.9	e4.5	e4.6	e7.8	15	87	232	28	11	7.6
25	6.0	e5.9	e5.3	e4.3	e4.4	e7.5	15	80	184	26	10	7.4
26	5.9	e5.7	e5.4	e4.8	e4.5	e7.2	15	72	188	25	11	7.5
27	5.8	e5.2	e5.4	e4.7	e4.3	e7.2	14	75	194	24	10	7.8
28	6.0	e5.0	e5.2	e4.6	e4.3	e7.4	15	69	182	23	10	7.2
29	6.0	e4.9	e5.0	e4.6	---	e7.2	15	71	169	21	9.9	7.0
30	6.4	e5.6	e5.1	e4.5	---	e7.1	15	73	152	20	9.6	6.9
31	5.9	---	e5.0	4.6	---	e7.2	---	94	---	20	9.9	---
TOTAL	201.0	157.5	155.0	139.8	124.4	182.5	302.8	1735	5973	1791	451.4	248.7
MEAN	6.48	5.25	5.00	4.51	4.44	5.89	10.1	56.0	199	57.8	14.6	8.29
MAX	7.5	5.9	5.7	4.9	4.8	7.8	16	94	347	138	20	9.7
MIN	5.8	4.8	3.2	3.7	3.3	4.0	6.4	15	90	20	9.6	6.9
AC-FT	399	312	307	277	247	362	601	3440	11850	3550	895	493

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1997, BY WATER YEAR (WY)

MEAN	6.19	4.59	3.66	3.18	2.98	3.55	7.70	47.9	124	49.1	14.2	8.06
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1964 - 1997	
ANNUAL TOTAL	12092.8		11462.1			
ANNUAL MEAN	33.0		31.4		22.9	
HIGHEST ANNUAL MEAN					49.4	1984
LOWEST ANNUAL MEAN					9.46	1977
HIGHEST DAILY MEAN	326	Jun 12	347	Jun 6	415	Jun 17 1965
LOWEST DAILY MEAN	e2.6	Jan 4	e3.2	Dec 18	a1.0	Jan 21 1964
ANNUAL SEVEN-DAY MINIMUM	2.7	Jan 1	4.1	Dec 14	1.0	Jan 21 1964
INSTANTANEOUS PEAK FLOW			397	Jun 6	b556	Jun 8 1985
INSTANTANEOUS PEAK STAGE			3.24	Jun 6	c2.87	Jun 8 1985
ANNUAL RUNOFF (AC-FT)	23990		22740		16590	
10 PERCENT EXCEEDS	117		92		72	
50 PERCENT EXCEEDS	7.7		7.1		5.9	
90 PERCENT EXCEEDS	3.9		4.5		2.8	

e-Estimated.
a-Also occurred Jan 22 to Feb 29, 1964.
b-From rating curve extended above 325 ft^3/s.
c-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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	5.1	e1.7	e1.5	e1.4	e1.3	e1.9	3.5	58	19	e5.6	12
2	7.6	4.7	e1.6	e1.5	e1.5	e1.3	e2.0	3.4	61	13	e5.6	11
3	9.2	4.5	e1.4	e1.6	e1.4	e1.2	e2.1	3.2	51	11	e5.7	10
4	9.1	4.6	e1.5	e1.5	e1.4	e1.3	e2.0	3.7	61	11	e6.0	9.5
5	8.1	5.1	e1.4	e1.3	e1.4	e1.2	e2.0	6.3	59	11	e10	8.0
6	7.6	5.1	e1.5	e1.3	e1.5	e1.2	e2.1	9.4	47	10	e6.7	8.2
7	7.2	5.1	e1.6	e1.3	e1.4	e1.2	e1.9	11	54	12	e4.5	8.6
8	6.5	5.0	e1.7	e1.1	e1.2	e1.2	e1.8	12	48	11	e4.8	e7.5
9	5.9	4.8	e1.8	e1.2	e1.2	e1.3	e1.8	14	32	8.1	e4.6	e6.0
10	5.5	4.4	e1.8	e1.4	e1.3	e1.3	e1.8	15	34	8.0	e6.4	e5.5
11	5.2	3.9	e1.8	e1.4	e1.3	e1.1	e1.9	15	45	7.5	e4.5	e6.3
12	4.8	3.7	e1.7	e1.5	e1.1	e1.1	e1.9	15	42	7.5	e4.1	e7.8
13	4.5	3.6	e1.7	e1.4	e1.4	e1.0	e1.8	16	30	7.8	e4.5	8.2
14	4.5	3.8	e1.6	e1.4	e1.3	e1.2	e1.9	17	34	7.4	e6.5	7.2
15	4.3	3.8	e1.5	e1.5	e1.4	e1.3	e1.8	20	34	7.1	e4.5	6.5
16	4.2	3.9	e1.4	e1.4	e1.4	e1.6	e1.8	23	29	6.4	e4.2	7.6
17	4.8	3.9	e1.2	e1.2	e1.4	e1.7	e2.5	26	40	6.4	e3.7	7.5
18	5.7	3.9	e.84	e1.3	e1.4	e1.6	3.0	28	40	5.7	e3.5	7.7
19	5.0	4.0	e.98	e1.3	e1.5	e1.6	3.7	29	66	6.0	e3.1	7.1
20	4.5	3.8	e1.3	e1.4	e1.4	e1.6	4.0	26	76	5.7	e2.7	7.2
21	4.8	3.5	e1.5	e1.3	e1.3	e1.7	4.5	27	55	5.4	2.4	7.5
22	5.3	e2.4	e1.8	e1.4	e1.3	e1.8	4.3	28	48	4.9	2.8	11
23	5.4	e2.3	e1.7	e1.4	e1.3	e1.9	3.9	21	e42	5.1	2.6	12
24	5.4	e2.1	e1.6	e1.4	e1.4	e2.1	3.6	21	e38	4.7	2.3	10
25	5.4	e2.0	e1.6	e1.3	e1.5	e2.1	3.4	19	e34	4.2	4.5	8.2
26	5.4	e2.0	e1.6	e1.3	e1.4	e2.0	3.2	15	e23	3.5	20	7.3
27	5.2	e1.9	e1.7	e1.5	e1.4	e1.9	3.2	13	22	4.2	17	12
28	4.8	e1.6	e1.7	e1.5	e1.4	e1.9	3.9	11	26	e6.5	15	9.9
29	5.1	e1.6	e1.6	e1.4	---	e1.9	3.9	25	23	e10	13	8.0
30	5.2	e1.6	e1.6	e1.4	---	e2.0	3.8	35	18	e9.8	11	6.6
31	5.4	---	e1.6	e1.4	---	e1.9	---	34	---	e6.8	10	---
TOTAL	179.5	107.7	48.02	42.8	38.3	47.5	81.4	545.5	1270	246.7	201.8	251.9
MEAN	5.79	3.59	1.55	1.38	1.37	1.53	2.71	17.6	42.3	7.96	6.51	8.40
MAX	9.2	5.1	1.8	1.6	1.5	2.1	4.5	35	76	19	20	12
MIN	4.2	1.6	.84	1.1	1.1	1.0	1.8	3.2	18	3.5	2.3	5.5
AC-FT	356	214	95	85	76	94	161	1080	2520	489	400	500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1997, BY WATER YEAR (WY)

MEAN	3.12	1.87	1.12	.78	.66	.78	2.64	15.0	33.1	21.9	9.50	4.81
MAX	7.29	3.59	2.73	1.66	1.37	1.53	7.02	41.7	79.0	78.6	29.1	9.46
(WY)	1985	1997	1996	1996	1997	1997	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1972 - 1997	
ANNUAL TOTAL	3144.62		3061.12			
ANNUAL MEAN	8.59		8.39		7.97	
HIGHEST ANNUAL MEAN					20.6	1984
LOWEST ANNUAL MEAN					4.35	1977
HIGHEST DAILY MEAN	85	Jun 22	76	Jun 20	172	Jul 10 1984
LOWEST DAILY MEAN	e .30	Feb 22	e .84	Dec 18	a .24	Feb 12 1977
ANNUAL SEVEN-DAY MINIMUM	.39	Feb 16	1.2	Mar 7	.25	Feb 7 1977
INSTANTANEOUS PEAK FLOW			125	Jun 19	b 300	Jul 4 1975
INSTANTANEOUS PEAK STAGE			3.09	Jun 19	c 3.19	Jul 4 1975
ANNUAL RUNOFF (AC-FT)	6240		6070		5770	
10 PERCENT EXCEEDS	24		23		20	
50 PERCENT EXCEEDS	4.5		4.1		2.2	
90 PERCENT EXCEEDS	.80		1.3		.52	

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	e9.5	e7.6	e7.3	e6.7	e6.3	e11	18	338	47	39	29
2	18	e9.2	e7.8	e6.9	e6.8	e6.2	e10	17	305	39	31	26
3	22	e9.0	e6.4	e7.3	e6.7	e6.2	e10	16	263	38	29	25
4	23	e10	e6.9	e7.2	e6.6	e6.2	e11	20	341	35	32	26
5	19	e10	e6.6	e6.0	e6.8	e5.8	e12	35	324	33	53	23
6	18	e9.9	e7.4	e6.3	e6.8	e6.0	e10	50	228	31	67	23
7	16	e9.2	e7.6	e5.0	e6.8	e6.2	e10	53	244	30	61	23
8	15	e9.0	e7.8	e6.4	e6.0	e6.4	e10	58	246	31	49	20
9	14	e9.6	e8.0	e7.0	e5.8	e6.7	e9.9	67	153	30	38	18
10	13	e9.4	e8.2	e6.9	e6.0	e7.2	e9.8	75	150	29	53	17
11	13	e9.4	e8.3	e6.9	e6.8	e7.6	e10	77	179	27	55	15
12	12	e8.8	e8.2	e6.8	e7.0	e8.2	e9.9	72	156	26	46	23
13	11	e8.8	e8.0	e6.1	e6.8	e9.0	e9.8	66	110	40	49	19
14	e11	e8.7	e7.8	e6.8	e6.4	e8.3	e9.8	70	125	98	79	17
15	11	e8.8	e6.7	e7.0	e6.6	e8.2	e9.8	80	124	44	53	18
16	11	e9.2	e6.8	e6.6	e6.6	e9.4	e9.6	90	99	31	45	25
17	12	e9.0	e5.8	e5.7	e6.7	e9.4	e11	106	124	38	39	19
18	e10	e9.7	e3.9	e6.0	e6.9	e9.0	17	120	161	46	39	19
19	e10	e9.9	e5.0	e6.6	e6.8	e8.6	20	119	268	90	35	18
20	e12	e9.1	e6.0	e6.4	e6.8	e9.0	22	101	284	115	32	18
21	e10	e9.0	e7.8	e6.8	e6.6	e9.4	25	94	186	111	31	19
22	e9.0	e9.2	e8.0	e6.5	e6.4	e11	21	139	186	47	29	27
23	e9.4	e9.8	e7.8	e6.4	e6.8	e11	19	100	172	35	27	29
24	e10	e9.6	e7.1	e6.6	e7.2	e12	18	90	118	34	25	25
25	e10	e8.8	e7.4	e6.3	e6.5	e11	17	82	82	32	28	21
26	e10	e8.6	e7.6	e7.2	e6.6	e10	17	64	68	28	48	20
27	e9.6	e8.6	e8.0	e7.1	e6.8	e10	19	51	63	33	40	28
28	e9.6	e7.2	e7.9	e6.8	e6.4	e10	23	48	60	59	34	23
29	e10	e7.1	e7.5	e6.8	---	e11	22	198	59	89	32	20
30	e10	e8.0	e7.2	e6.6	---	e10	20	178	57	88	28	18
31	e9.6	---	e7.3	e6.7	---	e10	---	200	---	62	28	---
TOTAL	397.2	272.1	224.4	205.0	185.7	265.3	433.6	2554	5273	1516	1274	651
MEAN	12.8	9.07	7.24	6.61	6.63	8.56	14.5	82.4	176	48.9	41.1	21.7
MAX	23	10	8.3	7.3	7.2	12	25	200	341	115	79	29
MIN	9.0	7.1	3.9	5.0	5.8	5.8	9.6	16	57	26	25	15
AC-FT	788	540	445	407	368	526	860	5070	10460	3010	2530	1290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1997, BY WATER YEAR (WY)

MEAN	13.9	9.92	7.51	6.12	5.80	6.72	14.8	66.5	102	63.6	33.2	17.0
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1973 - 1997	
ANNUAL TOTAL	11094.3		13251.3			
ANNUAL MEAN	30.3		36.3		[a]29.0	
HIGHEST ANNUAL MEAN					79.2	1984
LOWEST ANNUAL MEAN					15.3	1977
HIGHEST DAILY MEAN	268	Jun 22	341	Jun 4	[b]602	Jun 30 1984
LOWEST DAILY MEAN	[e]3.9	Dec 18	[e]3.9	Dec 18	1.8	Feb 5 1976
ANNUAL SEVEN-DAY MINIMUM	6.0	Dec 14	6.0	Dec 14	1.9	Jan 31 1976
INSTANTANEOUS PEAK FLOW			802	Jun 1	[c]930	Jun 30 1984
INSTANTANEOUS PEAK STAGE			5.61	Jun 1	[d]6.21	Jun 30 1984
ANNUAL RUNOFF (AC-FT)	22010		26280		20990	
10 PERCENT EXCEEDS	90		96		66	
50 PERCENT EXCEEDS	12		11		12	
90 PERCENT EXCEEDS	7.8		6.6		4.6	

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 fair 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	e15	e12	e12	e12	e10	e17	73	375	e75	e54	e47
2	25	e14	e10	e11	e11	e10	e18	63	417	e70	e54	e45
3	26	e16	e11	e12	e11	e9.8	e19	60	375	e61	e76	e45
4	31	e16	e11	e11	e11	e9.9	e17	75	402	e56	e100	e43
5	29	e15	e12	e10	e11	e10	e17	120	402	e55	e122	e37
6	26	e15	e12	e8.9	e11	e10	e17	165	346	e53	e94	e34
7	23	e14	e12	e8.6	e10	e11	e16	182	331	e52	e83	e30
8	20	e15	e13	e10	e10	e12	e17	191	366	e51	e72	e27
9	18	e15	e13	e11	e10	e12	e17	209	311	e48	e98	22
10	17	e14	e13	e12	e11	e13	e17	217	268	e47	e90	21
11	15	e14	e14	e11	e11	e12	e17	224	296	e51	e87	16
12	13	e14	e13	e9.8	e11	e13	e16	218	279	e82	e93	27
13	11	e14	e11	e10	e11	e14	e17	208	226	e155	e93	23
14	10	e15	e11	e11	e11	e13	e17	217	217	e148	e134	22
15	9.8	e14	e10	e11	e11	e14	e18	225	225	e104	e98	18
16	10	e15	e9.3	e10	e10	e15	e28	239	199	e63	e75	30
17	12	e16	e7.2	e9.5	e11	e15	e39	261	200	e88	e70	25
18	16	e16	e6.3	e10	e12	e15	56	280	222	e152	e68	21
19	e15	e15	e9.2	e10	e11	e15	70	281	279	e201	e63	21
20	e14	e15	e11	e11	e10	e16	80	269	320	e110	e55	21
21	e15	e14	e13	e11	e10	e18	100	237	273	e73	e53	23
22	e17	e15	e12	e11	e11	e19	80	334	244	e68	e51	30
23	e17	e16	e12	e11	e12	e19	70	261	e170	e62	e48	41
24	e16	e14	e13	e10	e11	e18	66	223	e163	e58	e47	32
25	e15	e13	e13	e11	e10	e17	60	206	e142	e47	e83	26
26	e15	e13	e13	e12	e11	e17	65	166	e110	e65	e74	22
27	e16	e12	e12	e11	e11	e18	68	128	e101	e93	e66	32
28	e15	e12	e12	e11	e10	e18	87	117	e98	e154	e61	28
29	e15	e13	e12	e11	---	e17	93	233	e89	e121	e52	23
30	e15	e13	e11	e11	---	e18	81	322	e81	e99	e51	19
31	e15	---	e12	e11	---	e19	---	283	---	e73	e48	---
TOTAL	538.8	432	356.0	330.8	303	447.7	1300	6287	7527	2635	2313	851
MEAN	17.4	14.4	11.5	10.7	10.8	14.4	43.3	203	251	85.0	74.6	28.4
MAX	31	16	14	12	12	19	100	334	417	201	134	47
MIN	9.8	12	6.3	8.6	10	9.8	16	60	81	47	47	16
AC-FT	1070	857	706	656	601	888	2580	12470	14930	5230	4590	1690

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1997, BY WATER YEAR (WY)

MEAN	19.1	13.5	10.4	8.62	8.51	10.8	35.9	127	151	76.2	37.8	22.5
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1967 - 1997	
ANNUAL TOTAL	18462.2		23321.3			
ANNUAL MEAN	50.4		63.9		[a]43.6	
HIGHEST ANNUAL MEAN					116	1984
LOWEST ANNUAL MEAN					20.3	1977
HIGHEST DAILY MEAN	[e]320	May 18	417	Jun 2	831	May 25 1984
LOWEST DAILY MEAN	5.9	Sep 4	[e]6.3	Dec 18	[b]1.8	Sep 2 1990
ANNUAL SEVEN-DAY MINIMUM	8.1	Aug 30	9.1	Dec 13	2.1	Aug 29 1990
INSTANTANEOUS PEAK FLOW			548	Jun 2	[c]943	May 24 1984
INSTANTANEOUS PEAK STAGE			3.50	Jun 2	3.96	May 24 1984
ANNUAL RUNOFF (AC-FT)	36620		46260		31560	
10 PERCENT EXCEEDS	160		217		117	
50 PERCENT EXCEEDS	18		18		17	
90 PERCENT EXCEEDS	12		11		6.4	

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 SW1/4SE1/4 of unsurveyed sec. T.6 S., R.81 W., Eagle County, Hydrologic Unit 14010003, on left bank 500 ft upstream from U.S. Highway 24 bridge and 2.5 miles southeast of Minturn.

DRAINAGE AREA.--186 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	46	e37	e30	e25	e25	96	152	1160	433	142	81
2	56	e44	e40	e31	e25	e27	93	131	1350	383	119	76
3	60	43	e35	e29	e26	e28	97	121	1300	360	110	71
4	68	46	e37	e27	e28	e26	112	140	1400	333	108	77
5	63	41	e35	e28	e29	e26	102	214	1450	305	160	73
6	57	41	e37	e21	e28	e27	91	303	1320	283	212	67
7	51	e42	e38	e22	e26	e28	80	363	1230	265	219	72
8	48	43	e40	e24	e25	e29	79	397	1270	258	157	64
9	47	40	e40	e26	e25	e30	76	461	1170	241	132	59
10	45	41	e40	e27	e27	e33	73	507	1050	227	152	55
11	43	39	e40	e26	e29	e34	68	525	1060	217	168	53
12	42	40	e39	e24	e28	e39	64	511	1010	201	146	67
13	39	39	e36	e23	e26	e36	61	510	919	188	132	63
14	38	35	e32	e25	e26	e37	55	548	866	240	205	59
15	39	36	e31	e24	e28	e40	50	578	839	206	154	55
16	42	38	e29	e23	e28	40	54	646	791	171	127	69
17	43	37	e18	e24	e28	43	74	720	784	172	116	66
18	36	43	e17	e26	e30	42	101	778	833	169	110	59
19	52	44	e20	e27	e29	47	125	792	923	208	105	59
20	55	39	e24	e27	e27	54	149	806	1010	238	98	61
21	37	37	e30	e28	e25	67	186	756	952	233	93	64
22	46	39	e30	e27	e27	82	160	944	881	183	91	74
23	55	40	e27	e28	e27	99	146	879	868	156	83	85
24	44	38	e27	e27	e26	104	138	838	799	154	77	75
25	45	37	e29	e26	e26	92	121	809	696	141	80	68
26	43	42	e31	e29	e27	86	127	714	622	130	113	63
27	40	33	e33	e29	e28	91	131	599	580	132	106	75
28	43	e33	e32	e27	e26	94	165	535	536	169	93	71
29	49	41	e31	e25	---	96	178	684	497	190	86	65
30	45	e42	e31	e25	---	90	163	895	468	199	78	61
31	45	---	e30	e24	---	94	---	904	---	181	79	---
TOTAL	1476	1199	996	809	755	1686	3215	17760	28634	6966	3851	2007
MEAN	47.6	40.0	32.1	26.1	27.0	54.4	107	573	954	225	124	66.9
MAX	68	46	40	31	30	104	186	944	1450	433	219	85
MIN	36	33	17	21	25	25	50	121	468	130	77	53
AC-FT	2930	2380	1980	1600	1500	3340	6380	35230	56800	13820	7640	3980

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1997, BY WATER YEAR (WY)

MEAN	43.2	38.0	30.3	27.1	26.4	33.8	91.1	424	591	223	88.8	56.3
MAX	67.3	47.8	44.6	41.8	42.3	54.4	175	726	962	661	186	73.8
(WY)	1996	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1990 - 1997	
ANNUAL TOTAL	64569		69354			
ANNUAL MEAN	176		190		140	
HIGHEST ANNUAL MEAN					197	1995
LOWEST ANNUAL MEAN					87.9	1990
HIGHEST DAILY MEAN	1180	May 19	1450	Jun 5	1540	Jun 18 1995
LOWEST DAILY MEAN	e17	Dec 18	e17	Dec 18	11	Dec 9 1994
ANNUAL SEVEN-DAY MINIMUM	24	Dec 17	24	Dec 17	16	Jan 4 1990
INSTANTANEOUS PEAK FLOW			1570	Jun 5	1810	Jun 18 1995
INSTANTANEOUS PEAK STAGE			6.28	Jun 5	6.75	Jun 18 1995
ANNUAL RUNOFF (AC-FT)	128100		137600		101200	
10 PERCENT EXCEEDS	642		703		404	
50 PERCENT EXCEEDS	55		63		47	
90 PERCENT EXCEEDS	37		27		24	

e-Estimated.

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	e10	e10	e9.7	e9.1	e8.4	e15	36	366	268	102	41
2	23	e10	e11	e9.8	e9.2	e8.2	e14	31	393	215	94	40
3	26	e10	e9.8	e9.6	e8.9	e8.3	e14	29	370	222	88	38
4	36	e11	e9.6	e8.4	e9.0	e8.0	e14	35	403	210	87	41
5	31	e11	e11	e8.2	e9.2	e7.8	e15	60	413	205	110	38
6	27	e11	e11	e8.6	e9.3	e7.8	e14	83	371	188	134	35
7	23	e11	e10	e7.2	e8.7	e8.2	e14	96	366	173	146	39
8	21	e12	e9.4	e9.0	e8.0	e8.7	e13	104	415	181	102	33
9	19	e12	e11	e9.4	e7.9	e8.8	e13	120	316	165	92	29
10	17	e12	e11	e9.2	e8.5	e8.9	e13	131	260	166	112	27
11	16	e11	e12	e9.2	e9.1	e10	e13	145	295	166	137	27
12	15	e11	e11	e9.1	e9.3	e11	e12	146	274	143	107	42
13	14	e10	e10	e8.7	e8.8	e11	e12	148	258	151	100	40
14	13	e10	e9.8	e9.6	e8.6	e11	e12	166	243	157	156	37
15	13	e8.5	e9.6	e9.1	e8.7	e11	11	177	274	154	109	32
16	14	e8.8	e8.0	e7.9	e8.8	e12	12	205	267	151	90	45
17	14	e9.0	e7.0	e7.9	e9.0	e12	17	234	272	139	83	40
18	12	e9.0	e7.5	e8.3	e9.2	e11	27	244	324	138	76	35
19	16	e9.4	e8.0	e8.8	e9.0	e12	36	239	396	136	70	34
20	e15	e9.6	e9.2	e8.5	e8.8	e12	44	248	502	144	62	40
21	e14	e10	e10	e9.0	e8.7	e13	52	227	450	134	61	43
22	e12	e9.5	e10	e8.5	e8.7	e14	43	281	384	126	58	50
23	e12	e9.5	e10	e8.5	e9.2	e15	36	237	410	126	54	58
24	e12	e9.5	e9.6	e8.8	e9.0	e15	34	214	378	130	51	53
25	e11	e9.5	e9.8	e8.4	e8.8	e14	30	198	325	125	49	45
26	e11	e9.6	e10	e9.4	e8.6	e14	32	154	281	110	75	39
27	e10	e9.8	e10	e9.2	e8.9	e14	33	121	279	102	64	58
28	e10	e9.8	e10	e9.2	e8.6	e15	42	105	281	152	56	49
29	e10	e10	e9.0	e9.0	---	e15	47	167	271	129	50	41
30	e10	e11	e10	e9.2	---	e14	41	230	276	125	44	35
31	e12	---	e9.8	e9.0	---	e14	---	245	---	115	41	---
TOTAL	514	304.5	304.1	274.4	247.6	353.1	725	4856	10113	4846	2660	1204
MEAN	16.6	10.1	9.81	8.85	8.84	11.4	24.2	157	337	156	85.8	40.1
MAX	36	12	12	9.8	9.3	15	52	281	502	268	156	58
MIN	10	8.5	7.0	7.2	7.9	7.8	11	29	243	102	41	27
AC-FT	1020	604	603	544	491	700	1440	9630	20060	9610	5280	2390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1997, BY WATER YEAR (WY)

MEAN	13.3	7.06	4.24	3.06	2.93	3.90	21.3	121	256	135	44.2	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1957 - 1997	
ANNUAL TOTAL	22130.5		26401.7			
ANNUAL MEAN	60.5		72.3		53.1	
HIGHEST ANNUAL MEAN					83.2	1984
LOWEST ANNUAL MEAN					25.4	1977
HIGHEST DAILY MEAN	475	Jun 22	502	Jun 20	618	Jun 30 1957
LOWEST DAILY MEAN	e4.7	Jan 27	e7.0	Dec 17	a.10	Dec 27 1962
ANNUAL SEVEN-DAY MINIMUM	5.0	Jan 22	8.1	Mar 1	.13	Dec 26 1962
INSTANTANEOUS PEAK FLOW			614	Jun 20	754	Jun 30 1957
INSTANTANEOUS PEAK STAGE			5.02	Jun 20	b5.45	Jun 30 1957
ANNUAL RUNOFF (AC-FT)	43900		52370		38440	
10 PERCENT EXCEEDS	219		238		179	
50 PERCENT EXCEEDS	14		15		11	
90 PERCENT EXCEEDS	5.6		8.8		2.2	

e-Estimated.
a-Also occurred Dec 28-31, 1962, Jan 6-8, 11-15, 1963.
b-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 (revised) 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	7.6	e4.4	e3.6	e3.8	e3.3	10	14	211	153	43	14
2	18	8.0	e4.0	e3.6	e3.8	e3.3	9.4	13	206	134	42	12
3	20	8.0	e4.0	e3.6	e3.8	e3.3	9.3	12	208	129	36	12
4	20	7.9	e4.0	e3.6	e3.8	e3.3	9.6	14	233	120	38	12
5	18	7.7	e4.0	e4.2	e3.8	e3.4	9.0	25	235	112	56	11
6	17	e7.9	e4.0	e4.4	e3.6	e3.5	8.6	36	197	107	63	12
7	15	e7.6	e4.0	e4.4	e3.4	e3.7	8.2	46	198	108	52	11
8	14	e7.4	e4.3	e4.4	e3.4	e3.8	7.6	51	189	106	42	10
9	13	e7.4	e4.5	e4.4	e3.4	e4.0	7.3	67	163	96	36	9.3
10	12	e7.0	e4.5	e4.4	e3.4	e4.1	7.0	72	159	96	48	8.7
11	11	e6.8	e4.5	e4.4	e3.6	e4.4	6.7	77	181	91	46	9.6
12	11	e6.8	e4.5	e4.4	e3.7	e4.9	6.5	72	181	84	38	11
13	10	e6.4	e4.0	e4.2	e3.7	e5.4	6.4	76	157	83	34	10
14	10	e6.0	e3.6	e4.0	e3.7	e5.6	6.1	80	145	81	34	9.9
15	9.6	e6.0	e3.6	e4.0	e3.7	e5.5	6.0	90	148	77	29	9.7
16	8.8	e6.0	e3.6	e4.0	e3.7	e5.8	6.7	126	155	73	27	14
17	9.2	e5.8	e3.6	e4.0	e3.7	e6.4	9.4	134	167	68	25	13
18	11	e5.6	e3.6	e4.0	e3.7	e7.0	13	142	196	67	24	13
19	10	e5.6	e3.6	e4.0	e3.7	e7.6	15	151	295	80	22	12
20	9.5	e5.6	e3.6	e4.0	e3.6	e8.1	19	144	319	79	20	14
21	11	e5.6	e3.6	e4.0	e3.5	12	20	132	291	63	19	13
22	13	e5.6	e3.9	e4.0	e3.4	13	16	151	295	58	18	14
23	13	e5.6	e4.1	e4.0	e3.3	14	15	133	265	56	17	14
24	11	e5.4	e4.1	e4.0	e3.3	14	14	133	229	57	16	12
25	8.8	e5.0	e4.1	e4.0	e3.2	12	12	120	213	58	15	11
26	7.9	e4.8	e4.1	e4.0	e3.0	11	13	96	203	52	15	11
27	7.5	e4.8	e4.1	e4.0	e3.2	12	13	77	191	48	15	15
28	7.7	e4.4	e3.6	e4.0	e3.3	11	17	66	176	48	14	12
29	8.0	e4.4	e3.4	e3.9	---	11	17	110	177	46	13	11
30	8.7	e4.4	e3.6	e3.8	---	10	15	128	172	47	13	10
31	8.0	---	e3.6	e3.8	---	10	---	158	---	53	13	---
TOTAL	374.7	187.1	122.1	125.1	99.2	226.4	332.8	2746	6155	2530	923	351.2
MEAN	12.1	6.24	3.94	4.04	3.54	7.30	11.1	88.6	205	81.6	29.8	11.7
MAX	23	8.0	4.5	4.4	3.8	14	20	158	319	153	63	15
MIN	7.5	4.4	3.4	3.6	3.0	3.3	6.0	12	145	46	13	8.7
AC-FT	743	371	242	248	197	449	660	5450	12210	5020	1830	697

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1997, BY WATER YEAR (WY)

MEAN	7.46	4.99	3.71	3.20	3.08	3.70	11.7	68.5	156	71.5	20.8	9.66
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1948 - 1997	
ANNUAL TOTAL	13629.0		14172.6			
ANNUAL MEAN	37.2		38.8		30.4	
HIGHEST ANNUAL MEAN					48.3	1983
LOWEST ANNUAL MEAN					17.4	1954
HIGHEST DAILY MEAN	320	Jun 22	319	Jun 20	455	Jun 25 1983
LOWEST DAILY MEAN	e3.4	Dec 29	e3.0	Feb 26	1.2	Mar 5 1977
ANNUAL SEVEN-DAY MINIMUM	3.6	Dec 14	3.2	Feb 23	1.3	Feb 27 1977
INSTANTANEOUS PEAK FLOW			452	Jun 19	a662	Jun 24 1983
INSTANTANEOUS PEAK STAGE			3.66	Jun 19	b2.60	Jun 24 1983
ANNUAL RUNOFF (AC-FT)	27030		28110		22020	
10 PERCENT EXCEEDS	142		137		101	
50 PERCENT EXCEEDS	8.0		11		7.0	
90 PERCENT EXCEEDS	3.8		3.6		2.5	

e-Estimated.
a-From rating curve extended above 140 ft^3/s.
b-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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	e3.0	e4.4	e4.3	e3.6	e2.8	e7.0	11	189	52	e12	5.2
2	4.2	e3.0	e4.4	e4.3	e3.6	e2.8	e7.0	10	224	47	e11	4.7
3	4.5	e3.1	e4.4	e4.3	e3.6	e2.8	e7.2	9.9	227	44	e10	4.8
4	4.2	e3.5	e4.4	e4.9	e3.6	e2.8	e7.6	12	244	40	e9.0	4.8
5	4.1	e3.9	e4.4	e5.4	e3.6	e2.9	e7.0	16	237	37	12	4.4
6	3.9	e4.6	e4.4	e5.8	e3.5	e3.0	e6.6	21	218	35	12	4.4
7	3.8	e4.6	e4.4	e6.4	e3.5	e3.1	e6.4	25	217	33	10	4.4
8	3.7	e4.6	e4.4	e6.4	e3.4	e3.2	e6.2	29	202	32	9.1	4.1
9	3.7	e4.6	e4.4	e6.4	e3.4	e3.3	e5.8	34	176	30	8.7	4.0
10	3.5	e4.6	e4.4	e6.4	e3.3	e3.6	e5.6	36	176	28	11	3.9
11	3.5	e4.6	e4.4	e5.8	e3.3	e3.8	e5.4	35	183	26	10	4.1
12	3.4	e4.6	e4.4	e5.4	e3.2	e3.9	e5.2	35	172	24	9.2	4.3
13	3.4	e4.6	e4.4	e5.0	e3.2	e3.9	e5.0	37	156	22	8.7	3.9
14	3.5	e4.6	e4.3	e4.7	e3.2	e4.0	e4.9	39	145	21	9.5	3.8
15	3.4	e4.6	e4.3	e4.6	e3.2	e4.1	e4.9	46	135	19	8.2	4.4
16	3.4	e4.6	e4.3	e4.5	e3.2	e4.3	e4.9	61	132	18	7.3	4.7
17	e3.7	e4.6	e4.3	e4.5	e3.2	e4.5	8.1	79	136	18	7.1	4.0
18	e4.0	e4.6	e4.3	e4.5	e3.2	e4.7	9.7	90	138	17	7.0	4.1
19	e3.6	e4.6	e4.3	e4.5	e3.2	e5.0	11	99	150	18	6.6	3.9
20	e3.4	e4.6	e4.3	e4.5	e3.2	e5.5	13	97	153	e19	6.2	4.7
21	e3.8	e4.6	e4.3	e4.3	e3.1	e6.0	14	89	146	e18	5.8	4.0
22	e4.8	e4.6	e4.3	e4.2	e3.1	e7.0	11	104	140	e17	5.8	4.6
23	e4.8	e4.6	e4.3	e4.1	e3.0	e8.0	11	113	127	e16	5.5	4.4
24	e3.7	e4.6	e4.3	e4.1	e2.9	e9.0	9.9	113	111	e15	5.2	4.0
25	e3.0	e4.6	e4.3	e4.0	e2.8	e8.0	9.7	101	97	e15	5.3	3.8
26	e3.0	e4.6	e4.3	e3.9	e2.7	e7.4	10	82	86	e14	5.7	4.0
27	e3.0	e4.6	e4.3	e3.8	e2.7	e7.5	11	65	78	e14	5.4	4.4
28	e3.1	e4.6	e4.3	e3.7	e2.8	e7.5	12	56	69	e14	5.3	3.8
29	e3.3	e4.6	e4.3	e3.6	---	e7.4	12	94	63	e13	4.9	3.6
30	e3.4	e4.6	e4.3	e3.6	---	e7.2	11	112	58	e12	4.8	3.5
31	e3.1	---	e4.3	e3.6	---	e7.2	---	136	---	e13	5.3	---
TOTAL	114.3	131.5	134.6	145.5	90.3	156.2	250.1	1886.9	4585	741	243.6	126.7
MEAN	3.69	4.38	4.34	4.69	3.23	5.04	8.34	60.9	153	23.9	7.86	4.22
MAX	4.8	4.6	4.4	6.4	3.6	9.0	14	136	244	52	12	5.2
MIN	3.0	3.0	4.3	3.6	2.7	2.8	4.9	9.9	58	12	4.8	3.5
AC-FT	227	261	267	289	179	310	496	3740	9090	1470	483	251

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1997, BY WATER YEAR (WY)

MEAN	3.89	3.44	2.84	2.48	2.38	2.95	7.55	55.8	92.8	22.6	7.28	4.35
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1948 - 1997	
ANNUAL TOTAL	8448.0		8605.7			
ANNUAL MEAN	23.1		23.6		17.4	
HIGHEST ANNUAL MEAN					30.3	1984
LOWEST ANNUAL MEAN					8.16	1954
HIGHEST DAILY MEAN	202	May 19	244	Jun 4	274	Jun 17 1995
LOWEST DAILY MEAN	e2.2	Jan 6	e,a2.7	Feb 26	.90	Feb 22 1968
ANNUAL SEVEN-DAY MINIMUM	2.3	Jan 2	2.8	Feb 25	.90	Feb 4 1979
INSTANTANEOUS PEAK FLOW			302	Jun 4	370	Jun 17 1995
INSTANTANEOUS PEAK STAGE			5.03	Jun 4	b5.06	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	16760		17070		12580	
10 PERCENT EXCEEDS	91		87		54	
50 PERCENT EXCEEDS	4.6		4.7		3.8	
90 PERCENT EXCEEDS	2.5		3.3		2.0	

e-Estimated.
a-Also occurred Feb 27.
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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	2.3	e.90	e.84	e.78	e.71	2.7	4.1	66	34	12	4.6
2	6.9	2.2	e.89	e.84	e.78	e.72	2.7	3.7	86	29	11	4.5
3	7.0	2.3	e.89	e.84	e.78	e.76	2.8	3.5	82	28	11	4.8
4	6.7	2.3	e.89	e.94	e.78	e.73	3.1	3.9	83	26	11	4.4
5	6.2	2.3	e.89	e1.0	e.78	e.74	3.0	7.1	84	24	15	4.0
6	5.7	e2.0	e.89	e1.1	e.75	e.76	2.8	11	74	23	17	4.0
7	5.3	e1.8	e.92	e1.1	e.75	e.80	2.5	14	70	23	15	3.6
8	4.9	e1.7	e.92	e1.1	e.75	e.84	2.4	15	66	22	12	3.4
9	4.6	e1.6	e.92	e1.1	e.75	e.88	2.2	18	52	21	11	3.3
10	4.4	e1.5	e.92	e1.1	e.76	e.94	2.1	21	48	22	13	3.1
11	4.2	e1.5	e.92	e1.0	e.79	e1.0	2.0	23	59	21	13	3.4
12	4.0	e1.5	e.92	e.98	e.80	e1.1	1.9	21	65	19	12	3.5
13	3.8	e1.5	e.88	e.94	e.80	e1.1	1.9	22	54	19	11	3.5
14	3.7	e1.4	e.84	e.90	e.80	e1.1	1.9	22	49	19	11	3.3
15	3.4	e1.3	e.84	e.88	e.80	e1.2	1.8	24	50	18	9.4	3.4
16	3.0	e1.3	e.84	e.88	e.80	e1.3	1.9	31	49	18	9.1	4.9
17	3.1	e1.3	e.84	e.88	e.78	e1.4	2.5	38	51	17	8.5	4.2
18	3.3	e1.3	e.84	e.85	e.78	e1.6	3.4	45	61	16	7.9	4.5
19	3.2	e1.3	e.84	e.85	e.78	e1.9	4.4	45	86	18	7.0	4.5
20	3.0	e1.2	e.84	e.85	e.78	e2.3	5.9	42	94	20	6.5	5.9
21	2.9	e1.1	e.86	e.85	e.76	2.6	6.1	36	76	17	6.5	5.5
22	2.9	e1.1	e.87	e.85	e.74	2.9	5.0	38	77	16	6.1	5.5
23	2.9	e1.0	e.87	e.85	e.73	3.2	4.3	34	72	16	5.8	5.4
24	2.8	e1.0	e.87	e.82	e.72	3.5	4.0	33	59	16	5.6	5.0
25	2.6	e1.0	e.87	e.82	e.68	3.0	3.7	29	53	16	5.7	4.7
26	2.4	e1.0	e.87	e.82	e.66	2.8	3.6	23	45	15	5.6	4.7
27	2.4	e1.0	e.87	e.82	e.70	3.0	3.9	18	39	14	5.6	5.9
28	2.4	e1.0	e.87	e.82	e.70	3.0	5.2	15	39	14	5.3	5.3
29	2.4	e1.0	e.84	e.82	---	2.9	5.2	26	42	13	5.4	4.8
30	2.5	e.96	e.84	e.78	---	2.7	4.5	32	40	13	5.0	4.4
31	2.4	---	e.84	e.78	---	2.7	---	40	---	14	4.6	---
TOTAL	122.5	43.76	27.10	28.00	21.26	54.18	99.4	738.3	1871	601	284.6	132.0
MEAN	3.95	1.46	.87	.90	.76	1.75	3.31	23.8	62.4	19.4	9.18	4.40
MAX	7.5	2.3	.92	1.1	.80	3.5	6.1	45	94	34	17	5.9
MIN	2.4	.96	.84	.78	.66	.71	1.8	3.5	39	13	4.6	3.1
AC-FT	243	87	54	56	42	107	197	1460	3710	1190	565	262

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1997, BY WATER YEAR (WY)

MEAN	2.77	1.68	1.02	.84	.83	.99	3.88	24.1	50.1	23.1	7.53	3.68
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1964 - 1997	
ANNUAL TOTAL	4243.34		4023.10			
ANNUAL MEAN	11.6		11.0		10.1	
HIGHEST ANNUAL MEAN					18.6	1984
LOWEST ANNUAL MEAN					5.15	1966
HIGHEST DAILY MEAN	81	Jun 22	94	Jun 20	170	Jun 26 1983
LOWEST DAILY MEAN	e.78	Jan 6	e.66	Feb 26	a.10	Feb 8 1967
ANNUAL SEVEN-DAY MINIMUM	.81	Jan 1	.70	Feb 24	.20	Mar 4 1981
INSTANTANEOUS PEAK FLOW			b144	Jun 19	c338	Jun 8 1985
INSTANTANEOUS PEAK STAGE			3.87	Jun 19	d4.10	Jun 8 1985
ANNUAL RUNOFF (AC-FT)	8420		7980		7290	
10 PERCENT EXCEEDS	47		37		33	
50 PERCENT EXCEEDS	2.9		3.2		2.3	
90 PERCENT EXCEEDS	.84		.80		.66	

e-Estimated.
a-Also occurred Jan 30, 1970.
b-From rating curve extended above 50 ft^3/s.
c-From rating curve extended above 82 ft^3/s.
d-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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	3.6	e1.8	e1.8	e1.6	e1.4	4.3	5.9	82	44	15	5.9
2	9.2	3.4	e1.7	e1.8	e1.6	e1.4	4.4	5.8	82	39	15	5.8
3	9.6	3.4	e1.7	e1.8	e1.6	e1.4	4.4	5.4	86	37	14	5.5
4	9.2	3.9	e1.7	e1.8	e1.6	e1.4	5.0	5.7	79	35	14	5.3
5	8.5	3.4	e1.7	e1.8	e1.6	e1.4	4.9	7.4	81	32	18	5.0
6	7.8	e3.3	e1.7	e1.9	e1.5	e1.4	4.7	10	77	31	19	5.1
7	7.3	e3.2	e1.7	e2.0	e1.5	e1.5	4.4	13	73	30	17	4.8
8	6.8	e3.1	e1.9	e2.0	e1.5	e1.6	4.2	15	72	29	15	4.4
9	6.4	e3.0	e2.0	e2.0	e1.5	e1.6	4.1	18	62	27	14	4.2
10	6.1	e2.9	e2.0	e2.0	e1.5	e1.6	3.6	21	60	27	17	4.2
11	5.8	e2.9	e2.0	e2.0	e1.6	e1.6	3.4	23	65	26	17	4.7
12	5.6	e2.8	e1.9	e2.0	e1.6	e1.7	2.7	22	66	25	16	4.7
13	5.3	e2.7	e1.8	e1.8	e1.6	e1.8	2.1	23	58	26	15	4.4
14	5.3	e2.7	e1.7	e1.8	e1.6	e1.8	2.9	24	59	26	14	4.3
15	4.9	e2.7	e1.7	e1.8	e1.6	e1.8	2.7	27	56	25	13	4.8
16	4.4	e2.7	e1.7	e1.8	e1.6	e1.8	2.8	34	56	24	12	7.7
17	4.7	e2.6	e1.7	e1.8	e1.6	e1.9	3.7	44	64	23	11	5.9
18	4.7	e2.5	e1.7	e1.8	e1.6	e2.0	5.0	48	66	22	11	6.4
19	5.3	e2.5	e1.7	e1.8	e1.6	e2.1	5.6	48	86	23	9.6	6.1
20	4.9	e2.5	e1.7	e1.8	e1.6	e2.3	6.4	47	e100	25	8.4	8.3
21	5.9	e2.5	e1.7	e1.8	e1.5	3.0	7.1	42	e84	23	8.1	8.1
22	7.6	e2.5	e1.7	e1.8	e1.4	3.4	7.0	44	66	21	7.8	8.9
23	7.3	e2.4	e1.8	e1.7	e1.4	4.2	6.6	39	58	21	7.4	9.0
24	4.4	e2.3	e1.8	e1.7	e1.4	4.8	6.6	37	52	21	6.9	8.1
25	4.4	e2.3	e1.8	e1.7	e1.3	4.4	6.2	33	47	21	6.7	7.2
26	4.1	e2.1	e1.8	e1.7	e1.2	4.1	6.2	27	45	19	6.6	7.3
27	4.0	e2.0	e1.8	e1.7	e1.3	4.4	5.6	23	44	18	6.5	9.4
28	3.9	e2.0	e1.8	e1.7	e1.4	4.3	6.5	20	43	18	6.2	7.8
29	3.9	e2.0	e1.8	e1.7	---	4.2	6.4	33	45	18	6.1	7.0
30	4.4	e2.0	e1.8	e1.6	---	4.2	6.3	37	46	17	6.0	6.6
31	3.7	---	e1.8	e1.6	---	4.2	---	47	---	17	5.7	---
TOTAL	185.1	81.9	55.1	56.0	42.4	78.7	145.8	829.2	1960	790	359.0	186.9
MEAN	5.97	2.73	1.78	1.81	1.51	2.54	4.86	26.7	65.3	25.5	11.6	6.23
MAX	9.7	3.9	2.0	2.0	1.6	4.8	7.1	48	100	44	19	9.4
MIN	3.7	2.0	1.7	1.6	1.2	1.4	2.1	5.4	43	17	5.7	4.2
AC-FT	367	162	109	111	84	156	289	1640	3890	1570	712	371

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1997, BY WATER YEAR (WY)

MEAN	4.04	2.50	1.77	1.44	1.35	1.48	4.05	24.3	54.9	30.9	9.81	5.18
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1967 - 1997	
ANNUAL TOTAL	5521.6		4770.1			
ANNUAL MEAN	15.1		13.1		11.8	
HIGHEST ANNUAL MEAN					22.7	1984
LOWEST ANNUAL MEAN					6.77	1989
HIGHEST DAILY MEAN	101	May 20	e100	Jun 20	186	Jun 14 1978
LOWEST DAILY MEAN	e1.2	Mar 5	e1.2	Feb 26	.24	Oct 29 1972
ANNUAL SEVEN-DAY MINIMUM	1.3	Mar 2	1.3	Feb 22	.26	Oct 26 1972
INSTANTANEOUS PEAK FLOW			a138	Jun 19	265	Jun 8 1985
INSTANTANEOUS PEAK STAGE			a2.90	Jun 19	b2.85	Jun 8 1985
ANNUAL RUNOFF (AC-FT)	10950		9460		8570	
10 PERCENT EXCEEDS	59		43		38	
50 PERCENT EXCEEDS	4.5		4.7		3.3	
90 PERCENT EXCEEDS	1.6		1.6		1.1	

e-Estimated.
a-Maximum gage height and/or discharge may have occurred during period of estimated record in June.
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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	3.1	e1.1	e1.0	e.92	e.82	4.4	6.5	79	57	9.8	3.2
2	6.2	3.2	e1.0	e1.0	e.92	e.82	4.4	5.9	75	52	9.1	2.9
3	6.7	3.2	e1.0	e1.0	e.92	e.82	4.7	5.6	80	48	8.4	2.7
4	6.2	3.5	e1.0	e1.0	e.92	e.82	5.8	6.5	75	44	8.6	2.7
5	5.6	3.3	e1.0	e1.0	e.92	e.82	5.5	10	85	38	13	2.5
6	5.1	3.2	e1.0	e1.1	e.86	e.88	4.9	14	75	35	14	2.7
7	4.7	e3.0	e1.0	e1.2	e.86	e.92	4.5	18	73	34	11	2.9
8	4.2	e2.8	e1.1	e1.2	e.86	e.94	4.0	20	72	32	9.3	2.4
9	3.8	e2.5	e1.2	e1.2	e.86	e1.0	4.1	24	69	29	8.7	2.2
10	3.4	e2.3	e1.2	e1.2	e.86	e1.2	4.0	30	70	27	12	e2.3
11	3.2	e2.3	e1.2	e1.2	e.88	e1.3	3.6	31	73	25	12	e2.4
12	3.1	e2.1	e1.2	e1.2	e.90	e1.4	2.8	29	71	23	12	e2.6
13	2.9	e1.9	e1.1	e1.1	e.90	e1.6	2.3	32	67	23	11	e2.6
14	3.0	e1.9	e1.0	e1.0	e.90	e1.7	2.2	34	66	23	10	e2.5
15	2.8	e1.9	e.96	e1.0	e.90	e1.7	2.6	37	66	22	8.6	e4.0
16	2.6	e1.9	e.96	e1.0	e.90	e1.9	2.9	48	64	20	7.8	5.6
17	2.9	e1.7	e.96	e1.0	e.90	e2.2	3.9	59	67	18	7.1	3.8
18	3.2	e1.6	e.96	e1.0	e.90	e2.3	5.1	67	71	17	6.7	4.0
19	3.3	e1.6	e.96	e1.0	e.90	e2.7	5.6	63	100	18	6.3	3.6
20	3.4	e1.6	e.96	e1.0	e.90	e3.2	6.7	61	107	21	5.6	6.3
21	3.8	e1.6	e.96	e1.0	e.86	e4.2	7.3	51	91	17	5.1	6.2
22	4.0	e1.6	e.96	e1.0	e.82	4.3	6.9	56	97	15	4.9	7.0
23	3.2	e1.5	e1.0	e1.0	e.80	5.1	6.6	46	81	22	4.6	7.3
24	2.9	e1.4	e1.0	e.98	e.80	5.5	6.5	42	73	19	4.3	6.3
25	2.9	e1.4	e1.0	e.98	e.77	4.6	5.9	37	70	15	4.1	5.3
26	2.9	e1.4	e1.0	e.98	e.74	4.1	5.9	31	67	13	3.9	5.2
27	2.8	e1.2	e1.0	e.98	e.82	4.6	6.0	23	62	13	3.9	6.0
28	3.0	e1.2	e1.0	e.98	e.82	4.4	6.9	19	63	12	3.6	5.0
29	3.2	e1.2	e1.0	e.98	---	4.2	7.0	35	63	12	3.5	4.5
30	3.5	e1.2	e1.0	e.92	---	4.0	6.7	43	62	12	3.3	4.0
31	3.2	---	e1.0	e.92	---	4.2	---	58	---	12	3.1	---
TOTAL	118.5	62.3	31.78	32.12	24.31	78.24	149.7	1042.5	2234	768	235.3	120.7
MEAN	3.82	2.08	1.03	1.04	.87	2.52	4.99	33.6	74.5	24.8	7.59	4.02
MAX	6.8	3.5	1.2	1.2	.92	5.5	7.3	67	107	57	14	7.3
MIN	2.6	1.2	.96	.92	.74	.82	2.2	5.6	62	12	3.1	2.2
AC-FT	235	124	63	64	48	155	297	2070	4430	1520	467	239

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1997, BY WATER YEAR (WY)

MEAN	2.87	2.02	1.26	1.01	.96	1.37	5.52	31.2	65.3	26.0	5.88	3.07
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1965 - 1997	
ANNUAL TOTAL	5730.78		4897.45			
ANNUAL MEAN	15.7		13.4		12.2	
HIGHEST ANNUAL MEAN					19.0	1982
LOWEST ANNUAL MEAN					6.66	1977
HIGHEST DAILY MEAN	104	Jun 7	107	Jun 20	218	Jun 15 1978
LOWEST DAILY MEAN	e,a .96	Dec 15	e .74	Feb 26	b .20	Feb 8 1967
ANNUAL SEVEN-DAY MINIMUM	.96	Dec 15	.80	Feb 22	.33	Feb 7 1967
INSTANTANEOUS PEAK FLOW			169	Jun 20	355	Jun 15 1978
INSTANTANEOUS PEAK STAGE			3.40	Jun 20	c 4.07	Jun 15 1978
ANNUAL RUNOFF (AC-FT)	11370		9710		8850	
10 PERCENT EXCEEDS	68		56		41	
50 PERCENT EXCEEDS	2.9		3.6		2.3	
90 PERCENT EXCEEDS	1.2		.92		.74	

e-Estimated.
a-Also occurred Dec 16-22.
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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.1	e.80	e.66	e.58	e.46	1.1	2.3	48	e25	3.9	1.4
2	1.6	1.1	e.72	e.66	e.58	e.46	1.1	2.2	63	e22	3.5	1.3
3	1.8	1.1	e.72	e.66	e.58	e.46	1.2	2.2	64	e20	3.3	1.2
4	1.8	1.1	e.72	e.66	e.58	e.46	1.5	2.2	66	e18	3.2	1.2
5	1.6	1.1	e.72	e.72	e.58	e.46	1.5	3.0	63	e17	4.9	1.2
6	1.5	1.1	e.72	e.76	e.50	e.48	1.4	4.0	72	e15	5.0	1.2
7	1.5	e1.0	e.72	e.76	e.50	e.49	1.4	5.4	75	e14	4.0	1.3
8	1.4	e1.0	e.74	e.76	e.50	e.50	1.3	6.1	75	14	3.5	1.1
9	1.4	e1.0	e.76	e.76	e.50	e.52	1.3	6.8	64	13	3.3	1.0
10	1.3	e.88	e.76	e.76	e.50	e.54	1.2	8.1	e51	12	4.6	1.0
11	1.3	e.88	e.76	e.76	e.54	e.56	1.2	8.9	e60	11	4.3	1.2
12	1.2	e.88	e.76	e.76	e.58	e.58	1.1	9.1	e56	10	4.1	1.0
13	1.2	e.88	e.72	e.74	e.58	e.58	1.1	9.3	e52	9.4	3.9	.95
14	1.2	e.88	e.68	e.70	e.58	e.58	1.1	9.3	e49	8.7	3.7	.97
15	1.2	e.88	e.68	e.70	e.58	e.60	1.0	9.8	e47	8.1	3.3	.98
16	1.2	e.88	e.68	e.70	e.58	e.62	1.1	12	e46	7.6	3.0	1.9
17	1.0	e.88	e.68	e.70	e.56	e.64	1.2	14	e48	7.3	3.0	1.2
18	1.5	e.88	e.68	e.70	e.56	e.66	1.4	17	e52	7.0	2.9	1.5
19	1.5	e.90	e.68	e.70	e.56	e.68	1.5	18	e58	7.0	2.7	1.2
20	1.3	e.90	e.68	e.70	e.56	e.71	1.8	18	e66	7.7	2.4	2.0
21	1.4	e.90	e.68	e.70	e.54	e.77	2.1	18	e60	6.2	2.3	1.9
22	1.6	e.90	e.68	e.70	e.52	.88	2.0	27	e52	5.7	2.2	2.1
23	1.5	e.90	e.72	e.70	e.49	.97	2.0	29	e50	6.0	2.1	2.1
24	1.4	e.90	e.72	e.66	e.49	1.1	1.9	28	e45	5.6	2.0	1.6
25	1.2	e.86	e.72	e.64	e.46	1.1	1.9	25	e42	4.9	1.9	1.4
26	1.1	e.86	e.72	e.60	e.43	1.0	1.9	21	e38	4.6	2.0	1.4
27	1.1	e.80	e.72	e.58	e.46	1.0	2.0	18	e35	4.8	1.8	1.6
28	1.2	e.80	e.70	e.58	e.46	1.1	2.3	16	e32	4.5	1.6	1.3
29	1.2	e.80	e.66	e.58	---	1.1	2.4	23	e31	4.3	1.5	1.2
30	1.2	e.80	e.62	e.58	---	1.1	2.4	30	e28	4.3	1.4	1.1
31	1.1	---	e.66	e.58	---	1.1	---	38	---	4.6	1.4	---
TOTAL	42.2	27.84	21.98	21.22	14.93	22.26	46.4	440.7	1588	309.3	92.7	40.50
MEAN	1.36	.93	.71	.68	.53	.72	1.55	14.2	52.9	9.98	2.99	1.35
MAX	1.8	1.1	.80	.76	.58	1.1	2.4	38	75	25	5.0	2.1
MIN	1.0	.80	.62	.58	.43	.46	1.0	2.2	28	4.3	1.4	.95
AC-FT	84	55	44	42	30	44	92	874	3150	613	184	80

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1997, BY WATER YEAR (WY)

MEAN	1.22	.82	.50	.41	.38	.41	1.34	12.0	35.6	13.7	3.28	1.72
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1965 - 1997	
ANNUAL TOTAL	2962.38		2668.03			
ANNUAL MEAN	8.09		7.31		5.94	
HIGHEST ANNUAL MEAN					11.3	1984
LOWEST ANNUAL MEAN					2.52	1977
HIGHEST DAILY MEAN	83	Jun 22	[a]75	Jun 7	93	Jun 22 1983
LOWEST DAILY MEAN	[e,b].44	Mar 9	[e].43	Feb 26	[c].00	Nov 10 1964
ANNUAL SEVEN-DAY MINIMUM	.45	Mar 8	.46	Feb 25	.00	Nov 10 1964
INSTANTANEOUS PEAK FLOW			85	Jun 4	116	Jun 20 1974
INSTANTANEOUS PEAK STAGE			2.76	Jun 4	[d,f]2.65	Jun 20 1974
ANNUAL RUNOFF (AC-FT)	5880		5290		4300	
10 PERCENT EXCEEDS	33		25		20	
50 PERCENT EXCEEDS	1.2		1.2		.94	
90 PERCENT EXCEEDS	.52		.58		.20	

e-Estimated.
a-Also occurred Jun 8.
b-Also occurred Mar 10.
c-No flow at times most years.
d-Maximum gage height, 3.28 ft, Jun 25, 1983, backwater from debris.
f-Datum then in use.

09066310 GORE CREEK AT LOWER STATION, AT VAIL, CO

LOCATION.--Lat 39°38'28", long 106°23'37", in NW1/4NW1/4 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	26	e21	e18	e17	e12	47	78	1080	527	123	46
2	47	25	e20	e18	e17	e12	45	72	1270	468	118	43
3	50	26	e20	e19	e17	e13	47	68	1270	445	108	43
4	49	29	e20	e18	e17	e12	54	75	1370	410	107	43
5	45	27	e20	e23	e17	e12	50	105	1450	379	147	41
6	42	26	e20	e23	e16	e13	47	144	1270	350	166	41
7	39	23	e20	e22	e15	e14	42	184	1200	337	135	42
8	36	27	e21	e22	e15	e14	40	203	1130	326	115	38
9	34	25	e22	e22	e15	e15	41	233	962	299	105	36
10	33	24	e22	e22	e15	e16	40	269	936	289	131	35
11	32	24	e21	e22	e16	17	36	290	1090	275	128	38
12	31	24	e22	e21	e17	20	34	282	1050	254	119	39
13	29	24	e20	e20	e17	21	32	295	912	247	108	37
14	29	25	e18	e20	e17	20	32	309	851	239	105	37
15	28	25	e18	e19	e17	20	31	332	825	232	92	37
16	29	24	e18	e19	e17	22	33	402	822	219	87	55
17	27	24	e18	e19	e16	25	42	489	858	206	83	46
18	27	25	e18	e19	e16	25	55	561	922	200	79	47
19	31	26	e18	e20	e16	28	62	593	1200	214	73	44
20	32	26	e18	e19	e16	36	77	593	1310	226	66	56
21	24	25	e18	e19	e15	44	90	536	1200	191	64	53
22	28	26	e20	e19	e14	48	75	617	1160	175	63	56
23	27	27	e20	e19	e13	53	69	586	1070	177	58	58
24	26	24	e20	e18	e13	56	66	585	935	173	55	50
25	26	24	e20	e18	e12	47	61	539	827	165	53	45
26	26	24	e19	e18	e11	45	64	446	754	149	54	45
27	25	22	e19	e18	e12	50	66	372	690	145	51	56
28	26	e22	e19	e18	e12	47	81	321	639	141	49	48
29	27	e22	e17	e18	---	48	88	531	617	138	48	44
30	28	e22	e18	e17	---	44	80	634	584	136	46	41
31	27	---	e18	e17	---	46	---	740	---	144	44	---
TOTAL	1010	743	603	604	428	895	1627	11484	30254	7876	2780	1340
MEAN	32.6	24.8	19.5	19.5	15.3	28.9	54.2	370	1008	254	89.7	44.7
MAX	50	29	22	23	17	56	90	740	1450	527	166	58
MIN	24	22	17	17	11	12	31	68	584	136	44	35
AC-FT	2000	1470	1200	1200	849	1780	3230	22780	60010	15620	5510	2660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1997, BY WATER YEAR (WY)

MEAN	24.1	18.6	14.2	12.0	11.1	15.8	50.5	324	662	238	60.3	31.6
MAX	34.2	25.7	21.7	19.5	16.4	28.9	87.0	510	1008	658	124	44.7
(WY)	1996	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1988 - 1997	
ANNUAL TOTAL	58286		59644			
ANNUAL MEAN	159		163		122	
HIGHEST ANNUAL MEAN					166	1993
LOWEST ANNUAL MEAN					77.6	1994
HIGHEST DAILY MEAN	1160	Jun 22	1450	Jun 5	1450	Jun 5 1997
LOWEST DAILY MEAN	e,a13	Mar 1	e11	Feb 26	5.9	Jan 25 1995
ANNUAL SEVEN-DAY MINIMUM	14	Feb 28	12	Feb 24	6.0	Jan 23 1995
INSTANTANEOUS PEAK FLOW			1840	Jun 4	1840	Jun 4 1997
INSTANTANEOUS PEAK STAGE			11.50	Jun 4	11.50	Jun 4 1997
ANNUAL RUNOFF (AC-FT)	115600		118300		88450	
10 PERCENT EXCEEDS	635		584		417	
50 PERCENT EXCEEDS	30		41		25	
90 PERCENT EXCEEDS	17		17		10	

e-Estimated.
a-Also occurred Mar 2-3.

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	1.9	e1.5	e1.2	e1.0	e1.0	e1.9	4.4	124	29	e6.6	e2.6
2	2.5	2.0	e1.5	e1.3	e1.0	e1.1	e1.9	4.2	123	27	e6.4	e2.4
3	3.2	2.0	e1.4	e1.3	e1.0	e1.1	e1.9	3.9	116	25	e6.0	e2.5
4	3.1	1.9	e1.4	e1.2	e1.1	e1.1	e2.0	4.5	126	22	e7.0	e2.4
5	2.6	1.8	e1.5	e1.2	e1.1	e1.0	e1.9	7.0	121	20	e7.8	e2.3
6	2.4	e1.6	e1.5	e1.0	e1.1	e1.1	e1.9	10	107	18	e6.6	e2.4
7	2.3	e1.5	e1.5	e1.2	e1.0	e1.1	e1.9	13	99	17	e5.6	e2.3
8	2.1	e1.5	e1.5	e1.4	e.98	e1.1	e1.9	15	94	17	e5.4	e2.2
9	2.0	1.7	e1.5	e1.4	e.96	e1.2	e1.9	18	84	15	e6.2	e2.1
10	1.9	1.7	e1.5	e1.4	e1.0	e1.3	e1.9	20	81	14	e7.0	e2.1
11	1.9	1.8	e1.5	e1.4	e1.1	e1.3	e2.0	21	84	13	e7.0	2.4
12	1.8	1.7	e1.4	e1.2	e1.2	e1.4	e1.9	21	81	12	e6.4	2.5
13	1.8	1.7	e1.4	e1.2	e1.1	e1.5	e1.8	22	72	11	e5.6	2.3
14	1.9	1.7	e1.3	e1.4	e1.0	e1.3	e1.8	23	68	11	e5.2	2.3
15	1.9	1.7	e1.2	e1.5	e1.1	e1.4	e2.0	25	63	10	e5.0	2.3
16	1.7	1.8	e1.2	e1.2	e1.1	e1.6	e2.3	30	60	9.8	e4.8	3.6
17	2.0	1.8	e.90	e1.1	e1.1	e1.6	2.6	38	59	9.4	e4.5	2.8
18	e1.9	1.7	e.84	e1.2	e1.2	e1.5	3.3	46	61	9.2	e4.3	3.3
19	2.4	1.8	e.98	e1.2	e1.1	e1.5	3.4	49	70	9.2	e4.0	2.8
20	2.4	1.8	e1.1	e1.1	e1.1	e1.7	4.6	46	74	10	e3.8	4.0
21	e2.0	1.8	e1.3	e1.2	e1.0	e1.8	4.8	44	68	8.5	e4.2	3.6
22	e1.9	2.0	e1.3	e1.1	e1.0	e1.9	4.5	65	63	7.9	e3.9	4.1
23	2.1	2.0	e1.2	e1.1	e1.1	e2.1	4.4	62	59	10	e3.8	4.5
24	1.9	1.9	e1.2	e1.2	e1.1	e2.1	4.1	54	53	9.1	e3.7	3.6
25	1.9	e1.7	e1.3	e1.1	e1.0	e2.0	4.0	48	45	7.8	e3.6	3.0
26	1.9	1.8	e1.3	e1.2	e1.1	e2.0	4.3	38	41	7.3	e3.6	3.0
27	1.8	e1.6	e1.3	e1.2	e1.2	e1.9	4.4	31	38	7.4	e3.3	3.5
28	2.0	e1.5	e1.2	e1.1	e1.1	e2.0	5.3	29	36	7.5	e3.0	2.9
29	2.2	e1.6	e1.2	e1.0	---	e2.1	5.0	51	34	e7.6	e2.9	2.6
30	2.0	e1.6	e1.2	e1.0	---	e1.9	4.5	68	32	e7.4	e2.8	2.5
31	2.0	---	e1.2	e1.0	---	e1.9	---	88	---	e7.0	e2.8	---
TOTAL	66.2	52.6	40.32	37.3	29.94	47.6	90.1	999.0	2236	396.1	152.8	84.9
MEAN	2.14	1.75	1.30	1.20	1.07	1.54	3.00	32.2	74.5	12.8	4.93	2.83
MAX	3.2	2.0	1.5	1.5	1.2	2.1	5.3	88	126	29	7.8	4.5
MIN	1.7	1.5	.84	1.0	.96	1.0	1.8	3.9	32	7.0	2.8	2.1
AC-FT	131	104	80	74	59	94	179	1980	4440	786	303	168

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1997, BY WATER YEAR (WY)

MEAN	2.01	1.53	1.22	1.04	.99	1.12	3.46	29.4	51.3	12.6	3.64	2.23
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1964 - 1997	
ANNUAL TOTAL	4457.32		4232.86			
ANNUAL MEAN	12.2		11.6		9.22	
HIGHEST ANNUAL MEAN					14.9	1983
LOWEST ANNUAL MEAN					4.31	1977
HIGHEST DAILY MEAN	e150	May 19	126	Jun 4	164	Jun 20 1983
LOWEST DAILY MEAN	e.80	Jan 4	e.84	Dec 18	.20	Jan 30 1970
ANNUAL SEVEN-DAY MINIMUM	.94	Jan 1	1.0	Jan 28	.34	Jan 28 1970
INSTANTANEOUS PEAK FLOW			164	Jun 1	223	Jun 17 1995
INSTANTANEOUS PEAK STAGE			4.56	Jun 1	a4.58	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	8840		8400		6680	
10 PERCENT EXCEEDS	51		42		29	
50 PERCENT EXCEEDS	1.9		2.1		1.8	
90 PERCENT EXCEEDS	1.1		1.1		.80	

e-Estimated.
a-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 good except for estimated daily discharges, which are poor. Diversion upstream from station for Vail water treatment plant.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	35	e29	25	e24	e19	66	116	1350	566	154	55
2	61	33	28	25	e24	e19	63	106	1490	500	146	51
3	65	36	e28	e26	e24	e20	65	100	1460	475	134	49
4	64	40	e28	25	24	e19	75	107	1540	439	129	50
5	60	37	e28	e30	e24	e19	70	147	1540	413	174	47
6	56	35	e28	e30	e23	e20	65	200	1410	385	195	46
7	53	29	e28	e29	e22	e21	60	251	1340	374	166	48
8	50	33	e29	e29	e22	e21	59	273	1280	364	140	42
9	47	34	e30	e29	e22	e23	61	311	1120	340	129	40
10	44	33	30	e29	e22	25	58	353	1080	331	157	39
11	42	31	29	e29	e23	27	54	386	1180	317	153	43
12	41	31	30	e28	e24	30	52	381	1160	297	143	45
13	39	32	28	e27	24	33	50	403	1030	291	131	41
14	39	e31	26	e26	24	31	48	420	949	283	129	41
15	38	e31	e25	26	24	32	50	452	908	273	114	41
16	40	e31	e25	e26	24	35	51	542	899	258	105	65
17	36	e33	e25	e26	e23	39	63	642	933	244	99	54
18	34	e33	e25	e26	e23	39	81	743	990	238	93	55
19	43	e35	e25	e27	e23	43	91	777	1250	249	87	52
20	44	37	e25	26	e23	53	111	768	1360	264	79	66
21	31	34	e27	26	e22	63	132	698	1260	229	75	65
22	35	37	e27	26	e21	70	114	817	1210	210	75	68
23	38	38	e27	26	e20	76	106	786	1120	212	69	71
24	37	35	e27	25	e20	80	100	764	964	209	64	61
25	38	32	e27	e25	e19	66	93	701	851	200	62	55
26	36	32	26	e25	e18	64	96	590	780	183	64	54
27	34	30	26	27	e19	69	99	498	704	179	61	69
28	37	30	26	e27	e19	66	120	438	657	177	58	58
29	38	e30	24	26	---	67	130	708	643	172	56	53
30	38	e30	25	e24	---	62	119	867	620	167	54	49
31	35	---	25	e24	---	64	---	996	---	178	51	---
TOTAL	1357	998	836	825	624	1315	2402	15341	33078	9017	3346	1573
MEAN	43.8	33.3	27.0	26.6	22.3	42.4	80.1	495	1103	291	108	52.4
MAX	65	40	30	30	24	80	132	996	1540	566	195	71
MIN	31	29	24	24	18	19	48	100	620	167	51	39
AC-FT	2690	1980	1660	1640	1240	2610	4760	30430	65610	17890	6640	3120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1997, BY WATER YEAR (WY)

MEAN	45.4	32.9	26.7	22.8	20.9	36.0	90.9	587	1050	284	82.8	49.7
MAX	47.1	33.3	27.0	26.6	22.3	42.4	102	678	1103	291	108	52.4
(WY)	1996	1997	1997	1997	1997	1997	1996	1996	1997	1997	1997	1997
MIN	43.8	32.6	26.4	19.0	19.5	29.7	80.1	495	997	277	57.7	47.0
(WY)	1997	1996	1996	1996	1996	1996	1997	1997	1996	1996	1996	1996

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1996 - 1997	
ANNUAL TOTAL	71038		70712			
ANNUAL MEAN	194		194		194	
HIGHEST ANNUAL MEAN					194	1996
LOWEST ANNUAL MEAN					194	1997
HIGHEST DAILY MEAN	1330	May 19	[a]1540	Jun 4	[a]1540	Jun 4 1997
LOWEST DAILY MEAN	[e]16	Mar 7	[e]18	Feb 26	[e]16	Mar 7 1996
ANNUAL SEVEN-DAY MINIMUM	18	Feb 4	19	Feb 24	18	Feb 4 1996
INSTANTANEOUS PEAK FLOW			1850	Jun 4	1850	Jun 4 1997
INSTANTANEOUS PEAK STAGE			9.97	Jun 4	9.97	Jun 4 1997
ANNUAL RUNOFF (AC-FT)	140900		140300		140500	
10 PERCENT EXCEEDS	735		702		725	
50 PERCENT EXCEEDS	42		51		48	
90 PERCENT EXCEEDS	19		24		20	

e-Estimated.
a-Also occurred Jun 5, 1997.

09066510 GORE CREEK AT MOUTH NEAR MINTURN, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1996 to September 1997 (discontinued).
WATER TEMPERATURES: October 1996 to September 1997.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry October 1996 to September 1997 (discontinued).

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

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 464 microsiemens Jan. 29; minimum, 83 microsiemens June 19-20.
WATER TEMPERATURES: Maximum, 16.9°C, Sept. 2-3; minimum, 0°C on many days during the winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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											
10...	1120	45	273	8.6	5.5	10.5	130	39	6.8	4.1	0.2
NOV											
14...	1115	29	315	8.7	1.0	12.5	140	45	7.8	5.4	0.2
DEC											
12...	1155	30	340	8.6	2.0	10.8	150	48	8.5	8.1	0.3
27...	1220	27	358	8.6	2.5	10.3	160	48	9.2	7.4	0.3
JAN											
15...	1410	25	374	8.7	0.5	11.0	150	47	8.1	11	0.4
29...	1120	26	384	8.5	0.5	12.0	170	53	8.9	10	0.3
FEB											
07...	1155	22	416	8.8	0.0	11.8	180	55	9.6	12	0.4
20...	1230	23	423	8.9	1.0	11.2	200	61	11	12	0.4
MAR											
06...	1115	16	472	8.8	0.0	11.5	210	64	11	14	0.4
20...	1045	50	387	8.8	2.5	10.7	140	44	7.8	14	0.5
APR											
03...	1225	64	324	8.9	4.5	10.8	140	44	7.2	10	0.4
10...	1030	58	341	8.7	2.5	10.1	140	43	7.3	9.3	0.3
16...	1435	51	344	9.5	8.5	11.3	150	48	8.0	10	0.3
24...	1145	101	300	8.7	3.5	11.2	120	38	6.0	9.3	0.4
28...	1500	119	277	9.0	7.0	9.9	130	41	6.2	7.7	0.3
MAY											
08...	1430	252	210	8.7	8.0	9.9	91	29	4.4	4.2	0.2
15...	1220	421	169	8.3	5.5	9.4	75	24	3.5	2.8	0.1
22...	0900	799	127	7.9	3.5	10.1	61	20	2.8	2.0	0.1
28...	1040	440	174	8.1	4.5	9.9	80	26	3.8	2.5	0.1
JUN											
01...	1830	1400	118	8.0	7.0	9.4	53	17	2.5	1.7	0.1
13...	1215	973	121	7.9	6.0	9.8	54	17	2.6	1.6	0.1
17...	1120	896	116	8.1	5.0	--	54	17	2.6	1.5	0.1
26...	0925	758	107	7.9	5.0	10.0	50	16	2.5	1.4	0.1
JUL											
16...	1200	259	149	8.3	9.0	8.8	66	20	3.6	1.8	0.1
31...	1315	178	170	8.7	12.0	9.1	75	23	4.1	2.5	0.1
AUG											
13...	1110	133	185	7.9	9.0	9.1	85	26	4.8	2.7	0.1
SEP											
26...	1320	53	263	8.9	9.5	9.0	130	39	6.8	4.3	0.2

09066510 GORE CREEK AT MOUTH NEAR MINTURN, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE[a] WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE[b] WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA-LINITY[c] 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											
10...	0.8	104	4	91	34	6.2	0.1	3.9	158	151	0.21
NOV											
14...	0.9	105	7	98	40	8.3	0.1	4.3	183	172	0.25
DEC											
12...	1.4	116	1	97	43	12	0.1	4.9	200	188	0.27
27...	1.5	116	4	101	48	11	0.1	5.3	211	198	0.29
JAN											
15...	1.5	105	5	94	46	18	0.1	5.0	223	199	0.30
29...	1.4	109	7	101	50	17	0.1	5.0	227	211	0.31
FEB											
07...	1.7	117	5	104	56	19	0.1	4.7	241	228	0.33
20...	1.7	106	13	109	59	21	0.1	5.0	256	242	0.35
MAR											
06...	2.0	128	2	109	68	23	0.2	4.1	284	264	0.39
20...	1.4	88	13	94	32	32	0.1	5.1	220	197	0.30
APR											
03...	1.2	77	13	85	27	21	0.1	4.4	192	170	0.26
10...	1.0	109	6	99	30	23	<0.1	3.7	200	179	0.27
16...	1.3	93	22	113	34	21	0.1	3.4	207	196	0.28
24...	1.0	88	7	84	21	19	<0.1	4.8	170	151	0.23
28...	1.0	--	--	99[d]	18	15	0.1	5.1	161	141	0.22
MAY											
08...	0.8	88	2	76	11	7.9	<0.1	5.5	126	109	0.17
15...	0.6	84	--	69	7.5	4.1	<0.1	5.3	94	90	0.13
22...	0.5	67	--	55	4.7	2.6	<0.1	5.0	84	71	0.11
28...	0.6	82	--	67	8.4	3.6	<0.1	5.6	110	97	0.15
JUN											
01...	0.5	54	--	44	3.7	1.8	<0.1	4.7	70	59	0.09
13...	0.5	56	--	46	5.0	1.7	0.1	4.6	71	61	0.10
17...	0.4	57	--	47	5.1	1.8	<0.1	4.5	73	62	0.10
26...	0.4	54	--	44	4.7	1.3	<0.1	4.2	70	57	0.09
JUL											
16...	0.5	67	--	55	12	2.0	<0.1	4.2	87	78	0.12
31...	0.6	70	2	61	15	3.1	<0.1	4.1	102	90	0.14
AUG											
13...	0.6	79	--	65	16	3.4	0.1	4.4	109	98	0.15
SEP											
26...	0.9	96	7	91	31	5.9	0.1	4.3	158	148	0.21

a-Field dissolved bicarbonate, determined by incremental titration method.
b-Field dissolved carbonate, determined by incremental titration method.
c-Field total dissolved alkalinity, determined by incremental titration method.
d-Lab total dissolved alkalinity, determined by fixed-end-point method.

09066510 GORE CREEK AT MOUTH NEAR MINTURN, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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											
10...	19.1	<0.01	0.09	0.03	<0.2	<0.2	<0.01	<0.01	0.01	1.3	0.3
NOV											
14...	14.3	<0.01	0.42	<0.015	<0.2	<0.2	0.03	0.02	0.03	1.2	0.3
DEC											
12...	16.4	0.02	0.77	0.02	<0.2	<0.2	0.10	0.09	0.09	1.2	0.2
27...	15.5	0.01	1.3	0.04	<0.2	<0.2	0.17	0.16	0.16	1.3	0.3
JAN											
15...	15.1	0.02	1.1	<0.015	<0.2	<0.2	0.18	0.18	0.18	1.4	0.2
29...	15.9	<0.01	0.98	0.02	<0.2	<0.2	0.20	0.15	0.17	1.3	0.2
FEB											
07...	14.4	<0.01	1.6	<0.015	0.2	<0.2	0.21	0.22	0.22	1.3	0.2
20...	15.9	0.03	1.2	<0.015	<0.2	<0.2	0.16	0.14	0.17	1.2	0.7
MAR											
06...	12.3	<0.01	2.6	<0.015	0.4	<0.2	0.28	0.24	0.28	1.7	0.3
20...	29.7	<0.01	0.83	<0.015	0.2	<0.2	0.10	0.09	0.10	2.0	0.5
APR											
03...	33.2	<0.01	0.76	<0.015	<0.2	<0.2	0.10	0.10	0.10	2.3	0.4
10...	31.3	<0.01	0.39	<0.015	<0.2	<0.2	0.05	0.02	0.04	2.0	0.5
16...	28.4	<0.01	0.34	<0.015	0.3	<0.2	0.07	0.05	0.05	2.0	0.5
24...	46.4	<0.01	0.26	0.04	0.5	<0.2	0.04	0.02	0.01	2.3	0.5
28...	51.7	<0.01	0.26	<0.015	0.3	<0.2	0.03	<0.01	<0.01	2.4	--
MAY											
08...	85.7	<0.01	0.26	<0.015	0.2	<0.2	0.03	0.02	<0.01	3.1	0.8
15...	107	<0.01	0.16	<0.015	<0.2	<0.2	0.01	<0.01	<0.01	3.1	0.7
22...	181	<0.01	0.16	<0.015	0.4	<0.2	0.04	<0.01	<0.01	3.4	0.4
28...	131	<0.01	0.13	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	2.8	0.2
JUN											
01...	265	<0.01	0.16	<0.015	0.4	<0.2	0.13	<0.01	<0.01	4.6	3.2
13...	187	<0.01	0.13	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	3.3	0.3
17...	177	<0.01	0.10	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	3.2	0.2
26...	143	<0.01	0.10	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	2.3	0.3
JUL											
16...	60.8	<0.01	0.12	<0.015	<0.2	<0.2	<0.01	<0.01	0.01	1.2	0.3
31...	49.0	<0.01	0.13	<0.015	<0.2	<0.2	<0.01	<0.01	0.02	1.2	0.2
AUG											
13...	39.1	<0.01	0.18	<0.015	<0.2	<0.2	0.01	0.02	0.02	1.2	0.2
SEP											
26...	22.6	<0.01	0.27	<0.015	<0.2	<0.2	0.05	0.03	0.04	1.2	0.2

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)
APR									
03...	3	<1	<1	120	<1	<1	2	<1	1
MAY									
08...	11	<1	<1	90	<1	<1	2	<1	1
22...	24	<1	<1	58	<1	<1	2	<1	<1
JUN									
01...	24	<1	<1	53	<1	<1	1	<1	<1

09066510 GORE CREEK AT MOUTH NEAR MINTURN, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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									
10...	5	--	1	--	--	--	--	--	--
NOV									
14...	4	--	2	--	--	--	--	--	--
DEC									
12...	5	--	2	--	--	--	--	--	--
27...	9	--	2	--	--	--	--	--	--
JAN									
15...	<3	--	1	--	--	--	--	--	--
29...	4	--	2	--	--	--	--	--	--
FEB									
07...	6	--	2	--	--	--	--	--	--
20...	4	--	2	--	--	--	--	--	--
MAR									
06...	4	--	3	--	--	--	--	--	--
20...	5	--	3	--	--	--	--	--	--
APR									
03...	7	<1	2	<1	<1	<1	<1	2	2
10...	5	--	4	--	--	--	--	--	--
16...	<3	--	<1	--	--	--	--	--	--
24...	8	--	2	--	--	--	--	--	--
28...	9	--	3	--	--	--	--	--	--
MAY									
08...	11	<1	4	<1	<1	<1	<1	<1	1
15...	14	--	2	--	--	--	--	--	--
22...	15	<1	2	<1	<1	<1	<1	2	<1
28...	7	--	4	--	--	--	--	--	--
JUN									
01...	12	<1	3	<1	<1	<1	<1	1	<1
13...	10	--	2	--	--	--	--	--	--
17...	10	--	2	--	--	--	--	--	--
26...	10	--	2	--	--	--	--	--	--
JUL									
16...	5	--	1	--	--	--	--	--	--
31...	6	--	1	--	--	--	--	--	--
AUG									
13...	6	--	2	--	--	--	--	--	--
SEP									
26...	5	--	1	--	--	--	--	--	--

09066510 GORE CREEK AT MOUTH NEAR MINTURN, CO--Continued

(National Water-Quality Assessment Program station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT,[f] SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SAMPLER[g] TYPE (CODE) (84164)
OCT						
10...	1120	45	1	0.12	--	3045
NOV						
14...	1115	29	6	0.47	--	3045
14...	1120	29	4	0.31	--	3044
DEC						
12...	1155	30	1	0.08	--	3045
12...	1205	30	2	0.16	--	3044
27...	1150	27	2	0.15	--	3044
27...	1220	27	2	0.15	--	3045
JAN						
15...	1410	25	2	0.13	--	3045
15...	1420	25	1	0.07	--	3044
29...	1120	26	1	0.07	--	3045
29...	1125	26	1	0.07	--	3044
FEB						
07...	1140	22	1	0.06	--	3044
07...	1155	22	0	0.0	--	3045
20...	1230	23	1	0.06	--	3045
20...	1240	23	1	0.06	--	3044
MAR						
06...	1110	16	3	0.13	--	3044
06...	1115	16	4	0.17	--	3045
20...	1025	50	6	0.81	--	3044
20...	1045	50	6	0.81	--	3045
APR						
03...	1225	64	2	0.35	--	3045
03...	1235	64	2	0.35	--	3044
10...	1030	58	3	0.47	--	3045
10...	1100	58	3	0.47	--	3044
16...	1430	51	2	0.27	--	3044
16...	1435	51	3	0.41	--	3045
16...	1440	51	2	0.27	--	3045
24...	1135	101	6	1.6	--	3044
24...	1145	101	4	1.1	--	3045
28...	1450	119	10	3.2	--	3044
28...	1500	119	11	3.5	--	3045
MAY						
08...	1415	252	25	17	--	3009
08...	1430	252	21	14	--	3039
15...	1145	421	20	23	--	3009
15...	1220	421	52	59	--	3039
22...	0900	799	13	28	--	3039
22...	0930	799	45	97	42	3009
28...	1040	440	9	11	--	3039
28...	1110	440	14	17	--	3009
JUN						
01...	1800	1400	138	522	50	3009
01...	1830	1400	172	650	48	3039
13...	1105	995	49	132	23	3009
13...	1215	973	36	95	--	3039
17...	1100	896	22	53	30	3009
17...	1120	896	27	65	--	3039
26...	0910	771	21	44	--	3009
26...	0925	758	30	61	--	3039
JUL						
16...	1200	259	4	2.8	--	3039
16...	1325	250	4	2.7	--	3009
31...	1300	178	2	0.96	--	3009
31...	1315	178	1	0.48	--	3039
AUG						
13...	1110	133	3	1.1	--	3045
13...	1120	133	2	0.72	--	3044
SEP						
26...	1310	53	3	0.43	--	3044
26...	1320	53	3	0.43	--	3045

f-Suspended-sediment concentrations associated with sampler types 3039 and 3045 were determined from a subsample split of a composite sample.
g-Sampler type: code 3009 is a D-74 suspended-sediment sampler; 3044 and 3045 are DH-81 water-quality and suspended-sediment samplers; 3039 is a D-77TM water-quality sampler.

09066510 GORE CREEK AT MOUTH NEAR MINTURN, CO--Continued

(National Water-Quality Assessment Program station)

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	228	213	218	319	303	312	345	322	337	419	382	403
2	235	219	224	341	293	323	339	318	327	412	380	402
3	235	210	222	327	283	309	349	326	336	412	368	398
4	230	213	221	313	292	302	337	325	329	419	380	400
5	240	221	229	324	293	311	353	316	338	447	374	414
6	242	229	236	331	302	314	322	314	318	376	357	366
7	251	234	242	328	301	320	324	314	320	412	368	391
8	263	241	251	331	279	306	333	310	321	373	353	364
9	275	246	261	317	293	310	344	328	334	363	339	355
10	277	259	268	330	297	318	360	331	342	363	353	358
11	284	260	273	342	296	318	363	334	347	375	356	368
12	288	268	280	339	297	320	394	334	354	387	362	375
13	287	269	280	317	286	308	368	339	355	385	348	364
14	291	266	282	313	300	308	372	348	359	385	358	373
15	298	274	285	---	---	---	393	364	379	390	359	376
16	302	266	289	---	---	---	364	342	353	396	368	381
17	313	275	298	---	---	---	387	356	378	419	378	397
18	347	271	310	---	---	---	396	372	384	393	375	385
19	298	270	280	343	307	317	372	360	365	429	393	403
20	311	263	285	324	301	314	379	363	373	413	374	399
21	355	286	315	332	298	318	371	351	363	404	375	392
22	334	269	297	319	303	313	365	333	351	409	382	396
23	312	272	289	325	300	311	376	348	362	406	369	392
24	308	286	298	326	309	317	388	344	370	410	387	395
25	310	288	300	358	292	322	394	359	379	418	363	393
26	332	304	315	336	307	320	390	356	374	409	370	391
27	323	293	310	368	313	334	406	358	385	408	367	389
28	321	296	310	398	305	364	408	361	387	410	388	399
29	332	291	309	347	305	329	410	377	399	464	376	407
30	318	282	303	345	312	330	409	376	396	440	404	414
31	321	297	307	---	---	---	419	370	397	430	392	410
MONTH	355	210	277	---	---	---	419	310	358	464	339	389

		FEBRUARY			MARCH			APRIL			MAY	
1	445	395	421	460	428	440	342	324	331	314	292	306
2	441	414	430	458	432	443	341	320	332	317	300	309
3	414	389	404	439	418	430	337	315	326	325	302	314
4	417	395	408	437	417	429	332	311	320	319	292	308
5	457	385	411	455	426	438	339	322	330	292	253	269
6	440	393	411	455	443	447	347	320	336	253	222	240
7	440	401	418	450	440	445	354	297	334	222	213	217
8	450	419	436	447	435	442	352	323	340	213	199	209
9	432	408	421	458	433	442	355	331	342	200	187	196
10	432	402	417	458	445	452	366	341	352	190	175	185
11	423	401	411	452	435	443	372	350	361	180	171	176
12	429	414	422	442	414	428	374	327	361	184	175	180
13	436	409	425	423	408	417	378	326	359	181	170	176
14	436	415	426	429	416	422	377	315	355	176	168	172
15	456	404	426	432	409	423	371	332	353	174	154	168
16	450	422	434	428	392	411	365	334	352	160	142	153
17	436	417	428	413	385	395	361	317	338	150	126	141
18	444	412	431	419	392	404	329	291	308	137	124	130
19	447	433	440	402	367	385	308	286	297	134	118	127
20	435	419	428	397	375	390	286	263	274	131	119	126
21	444	428	436	377	357	368	290	251	270	140	127	134
22	454	427	441	362	344	351	295	273	285	134	125	131
23	430	418	425	349	326	341	292	262	280	145	125	135
24	434	418	427	344	321	331	305	290	297	145	136	141
25	444	426	432	374	308	338	312	291	303	148	138	144
26	443	420	429	352	321	337	310	293	303	163	148	155
27	429	415	423	338	320	328	310	288	300	173	163	168
28	434	421	428	341	314	329	293	275	283	180	173	177
29	---	---	---	348	325	336	290	273	283	178	141	162
30	---	---	---	360	302	339	304	287	295	157	145	151
31	---	---	---	350	317	332	---	---	---	150	121	142
MONTH	457	385	425	460	302	395	378	251	320	325	118	185

09066510 GORE CREEK AT MOUTH NEAR MINTURN, CO--Continued

(National Water-Quality Assessment Program station)

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	132	109	123	123	103	115	197	181	188	296	265	276
2	125	109	118	130	114	123	202	184	191	295	275	284
3	127	109	119	130	114	123	210	192	198	297	273	286
4	122	103	114	134	122	128	208	195	201	294	276	285
5	118	103	112	137	123	131	201	161	170	306	285	293
6	122	109	116	140	129	135	168	153	161	310	294	301
7	121	112	117	140	126	134	187	162	173	307	281	290
8	121	112	117	140	126	134	197	181	187	313	292	305
9	126	116	122	145	135	140	206	192	197	324	299	314
10	130	113	124	146	135	141	196	162	182	328	305	319
11	125	108	118	150	134	143	186	167	177	329	297	313
12	121	108	116	154	144	149	191	170	181	314	289	303
13	126	115	121	155	143	148	200	183	190	325	307	315
14	126	118	122	157	140	148	201	188	194	326	303	314
15	127	114	122	158	142	150	211	199	203	326	306	316
16	126	114	120	161	144	152	224	193	206	312	246	270
17	120	109	115	167	153	158	224	212	217	292	254	273
18	119	97	111	165	154	160	225	216	220	300	259	280
19	107	83	99	172	136	157	233	220	224	287	272	282
20	104	83	94	155	133	145	244	227	233	287	241	262
21	106	87	97	166	147	157	246	231	238	259	248	254
22	106	87	97	173	158	165	256	230	241	264	241	254
23	107	88	99	173	147	164	260	247	253	246	237	240
24	110	94	103	169	151	161	268	248	259	251	244	247
25	114	98	107	175	152	163	272	254	264	263	251	256
26	115	99	108	183	159	171	272	254	264	272	263	268
27	118	97	111	189	173	178	275	258	267	265	226	240
28	121	97	113	186	170	178	283	263	271	262	242	252
29	120	103	112	184	173	178	286	263	274	271	243	261
30	120	103	112	187	176	181	290	269	280	283	264	275
31	---	---	---	183	165	173	298	276	288	---	---	---
MONTH	132	83	113	189	103	151	298	153	219	329	226	281

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.9	4.8	7.3	5.0	1.6	2.8	1.5	.0	.4	2.9	1.2	2.1
2	9.5	5.3	7.6	3.9	.1	1.9	1.2	.0	.2	3.2	.8	2.0
3	9.4	7.5	8.5	3.4	.4	1.6	.0	.0	.0	2.5	1.1	2.1
4	10.5	6.3	8.3	4.2	.4	2.3	.0	.0	.0	1.6	.0	1.0
5	10.9	5.8	8.2	3.5	.9	2.2	.0	.0	.0	.0	.0	.0
6	10.2	5.5	7.9	2.6	.3	1.3	.0	.0	.0	.0	.0	.0
7	9.9	5.1	7.5	1.1	.0	.3	.0	.0	.0	.0	.0	.0
8	9.7	4.7	7.2	2.7	.0	1.0	.0	.0	.0	.0	.0	.0
9	9.8	4.9	7.3	3.4	.1	1.7	1.4	.0	.4	.0	.0	.0
10	10.0	5.0	7.4	3.7	.0	1.7	2.4	1.0	1.6	.0	.0	.0
11	10.0	4.9	7.4	3.1	.0	1.3	2.6	1.6	2.1	1.0	.0	.4
12	9.9	5.1	7.5	3.3	.0	1.4	3.2	1.5	2.3	.0	.0	.0
13	9.6	4.8	7.2	3.6	.3	1.8	3.2	1.5	2.4	.8	.0	.1
14	9.1	5.7	7.2	---	.6	---	2.3	.0	.7	.6	.0	.1
15	8.1	4.2	6.2	---	---	---	.0	.0	.0	1.3	.0	.3
16	6.4	3.1	4.4	---	---	---	.0	.0	.0	.0	.0	.0
17	5.0	1.9	3.0	---	---	---	.0	.0	.0	.0	.0	.0
18	5.7	.1	2.5	---	---	---	.0	.0	.0	.0	.0	.0
19	6.1	2.0	3.9	3.6	---	---	.0	.0	.0	1.4	.0	.3
20	4.4	.9	2.1	4.0	1.3	2.5	.0	.0	.0	2.4	.0	.9
21	1.9	.0	.7	3.3	.5	1.9	.0	.0	.0	1.7	.7	1.1
22	2.6	.0	.8	4.8	2.0	3.2	.0	.0	.0	1.9	.0	.7
23	3.8	.0	1.5	3.5	1.5	2.5	.0	.0	.0	1.6	.0	.7
24	3.7	.5	2.2	2.5	1.0	1.7	.1	.0	.0	1.1	.0	.3
25	4.0	2.0	2.9	3.3	.5	1.6	.8	.0	.1	.1	.0	.0
26	4.0	.9	2.4	2.3	.5	1.3	2.7	.8	1.8	2.6	.1	1.8
27	4.9	1.1	2.8	1.1	.0	.3	3.1	1.8	2.5	2.5	1.1	2.0
28	4.8	1.8	3.2	.0	.0	.0	2.8	1.4	2.1	1.1	.0	.1
29	3.2	1.4	2.3	.0	.0	.0	2.4	.4	1.5	2.7	.5	1.2
30	4.6	.4	2.2	1.7	.0	.4	3.2	.9	1.9	1.8	.0	.5
31	3.2	.7	1.9	---	---	---	3.5	1.3	2.3	3.6	.4	1.8
MONTH	10.9	.0	4.9	---	---	---	3.5	.0	.7	3.6	.0	.6

09066510 GORE CREEK AT MOUTH NEAR MINTURN, CO--Continued
(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.8	1.5	2.5	4.1	.1	1.6	6.0	1.6	3.8	5.5	2.1	3.8
2	3.0	.5	1.7	4.3	.0	1.7	7.5	2.1	4.4	6.3	1.3	3.6
3	1.6	.3	.9	3.0	.7	1.8	7.6	1.8	4.8	8.7	2.5	5.2
4	2.5	.1	1.0	2.9	.0	1.1	5.9	2.8	3.7	10.2	2.7	6.3
5	2.9	.4	1.6	3.8	.0	1.1	3.0	.7	1.7	10.5	3.3	6.7
6	2.0	.5	1.3	4.8	.0	1.5	5.3	.0	2.0	10.1	2.9	5.9
7	1.9	.0	.5	5.3	.0	2.0	6.2	.0	2.7	9.1	2.9	5.4
8	.0	.0	.0	4.9	.0	2.2	5.9	1.7	3.6	9.0	2.3	5.1
9	.0	.0	.0	5.9	.9	3.1	7.0	1.7	4.3	8.9	2.5	5.0
10	.0	.0	.0	6.4	.5	3.0	5.1	1.9	3.2	8.4	2.4	4.8
11	2.5	.0	.7	6.8	.5	3.4	4.4	.3	2.2	6.1	2.4	4.2
12	3.4	.0	1.4	7.0	1.0	3.6	7.2	.0	2.7	7.7	3.0	4.9
13	3.1	.2	1.4	6.4	1.1	3.4	7.4	.0	3.3	7.0	2.5	4.5
14	2.4	.0	.7	2.9	.7	2.0	7.5	.3	3.6	6.9	2.5	4.5
15	3.6	1.0	2.0	7.3	2.1	4.3	7.8	3.0	5.2	7.6	2.7	4.8
16	3.7	.0	1.5	7.9	2.1	4.7	10.3	2.4	5.8	6.8	2.7	4.6
17	3.9	.3	2.1	6.1	2.0	3.7	10.5	2.6	6.3	7.7	2.7	4.6
18	3.7	2.3	2.8	7.6	1.5	4.1	8.2	2.5	5.4	7.4	3.0	4.6
19	3.4	.0	1.4	7.9	1.0	4.0	8.9	2.5	5.6	7.8	3.0	4.7
20	1.5	.5	1.0	7.6	1.5	4.3	7.3	3.4	5.4	6.4	2.5	4.2
21	3.0	.0	.9	6.6	1.4	4.0	5.3	2.3	3.2	7.2	3.3	4.8
22	.8	.0	.1	7.0	1.4	4.0	5.7	1.8	3.5	4.7	3.6	4.1
23	2.5	.0	.8	7.6	1.8	4.5	6.7	2.4	4.4	7.7	3.4	4.9
24	3.2	.0	1.1	4.7	1.9	3.0	5.9	3.2	4.3	6.2	3.5	4.7
25	3.1	.0	.7	6.2	.0	2.7	9.1	1.6	4.8	6.6	3.2	4.6
26	3.0	.0	.7	7.8	.6	3.9	7.3	3.3	5.4	4.7	3.0	3.7
27	3.1	.1	1.6	6.1	1.7	3.8	10.2	2.0	5.7	5.9	3.2	4.3
28	1.8	.0	.9	7.1	.4	3.6	7.5	3.9	5.7	6.4	3.5	4.8
29	---	---	---	6.2	1.6	3.6	5.5	2.4	3.7	5.3	4.1	4.5
30	---	---	---	7.3	.0	3.3	7.4	1.8	4.0	7.5	3.6	5.2
31	---	---	---	6.2	1.3	3.8	---	---	---	9.4	3.7	5.8
MONTH	3.9	.0	1.1	7.9	.0	3.1	10.5	.0	4.1	10.5	1.3	4.8

		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.0	3.6	5.2	10.1	4.8	7.2	15.9	9.5	12.4	16.1	11.4	13.5
2	7.6	3.2	5.0	11.0	3.9	7.1	16.0	10.2	12.9	16.9	11.0	13.8
3	8.4	3.4	5.4	10.6	4.7	7.5	14.8	9.9	12.4	16.9	11.4	13.9
4	8.6	3.7	5.5	11.2	5.3	8.0	13.5	10.8	12.2	14.1	11.1	12.7
5	7.4	3.7	5.2	10.0	5.2	7.7	12.0	10.3	11.1	15.5	9.5	12.5
6	7.3	3.7	5.2	10.8	5.3	8.0	10.6	9.3	9.9	13.0	10.0	11.0
7	7.0	4.0	5.2	11.8	5.5	8.5	14.5	7.8	10.8	13.9	7.8	10.8
8	5.6	3.9	4.7	11.2	6.2	8.5	14.6	8.6	11.5	15.1	8.4	11.6
9	6.8	3.6	5.1	11.5	5.7	8.4	13.4	9.3	11.3	14.4	9.2	11.9
10	7.2	4.2	5.2	11.2	6.5	8.9	12.7	10.1	11.1	15.4	8.9	12.1
11	8.4	3.8	5.6	9.8	6.8	8.4	10.5	8.1	9.3	14.2	10.7	12.5
12	7.7	3.7	5.4	11.1	6.4	8.6	11.5	6.9	9.2	15.0	9.9	12.3
13	7.4	3.9	5.4	12.6	7.0	9.5	12.9	7.0	9.9	13.6	8.7	11.3
14	7.5	4.3	5.6	12.7	6.0	9.3	12.6	8.2	10.3	13.7	8.7	11.1
15	8.6	3.5	5.7	13.0	6.6	9.8	15.1	8.1	11.3	11.6	9.1	10.3
16	8.0	3.7	5.5	12.7	7.4	10.1	15.2	8.7	11.7	12.0	9.0	10.1
17	7.5	4.5	5.8	12.6	7.5	10.0	14.4	9.5	11.8	12.7	7.2	9.9
18	9.4	4.1	6.2	11.1	7.6	9.5	14.9	9.7	12.1	11.9	9.1	10.5
19	9.2	4.6	6.3	11.6	7.9	9.6	14.3	8.7	11.5	12.8	8.9	10.7
20	9.3	4.1	6.1	13.5	7.6	10.4	15.4	8.7	11.9	13.0	9.2	11.1
21	9.6	4.3	6.4	13.9	7.8	10.9	14.3	9.3	11.7	11.4	9.0	10.1
22	9.8	4.8	6.7	13.1	8.7	11.0	15.4	9.0	12.0	10.4	7.8	9.2
23	9.7	4.4	6.6	13.3	9.3	11.1	15.3	9.6	12.6	11.0	6.7	8.5
24	9.2	4.5	6.6	15.3	8.9	11.7	16.1	9.6	12.8	11.4	5.5	8.2
25	10.1	4.5	6.8	15.1	8.5	11.6	14.6	10.4	12.8	12.0	6.0	9.0
26	10.1	4.5	6.9	13.1	9.0	11.2	15.1	10.9	12.8	10.5	8.4	9.5
27	9.2	4.9	6.8	12.4	9.8	11.0	16.8	10.1	13.3	13.1	9.1	10.7
28	10.1	5.0	7.1	12.4	9.4	10.8	16.3	10.9	13.6	11.8	7.3	9.7
29	10.9	4.8	7.4	12.9	9.7	11.2	16.5	10.6	13.4	11.1	5.6	8.4
30	11.1	4.7	7.5	13.8	9.9	11.6	15.7	10.0	12.9	11.6	6.0	8.8
31	---	---	---	13.2	10.3	11.7	14.0	10.1	12.3	---	---	---
MONTH	11.1	3.2	5.9	15.3	3.9	9.6	16.8	6.9	11.8	16.9	5.5	10.9

09067000 BEAVER CREEK AT AVON, CO

LOCATION.--Lat 39°37'47", long 106°31'20", in NE1/4SW1/4 sec.12, T.5 S., R.82 W., Eagle County, Hydrologic Unit 14010003, on left bank at Avon, 550 ft upstream from U.S. Highway 6 and 24, and 700 ft upstream from mouth.

DRAINAGE AREA.--14.8 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	6.5	e5.0	e3.3	e2.9	3.6	5.7	13	95	61	13	9.6
2	6.0	6.1	e5.0	e3.4	e3.1	3.6	5.5	12	129	56	13	9.2
3	6.9	6.7	e5.4	e3.4	e3.0	3.6	5.6	11	120	53	11	8.9
4	7.2	6.5	e4.6	e2.9	e3.1	3.6	6.0	12	118	50	9.7	8.9
5	6.8	6.3	e4.6	e3.0	e3.3	3.7	5.9	16	124	48	12	8.8
6	6.6	6.1	e4.5	e2.6	e3.3	3.7	5.5	22	127	46	21	9.0
7	6.5	5.6	e4.6	e2.4	e3.1	3.7	5.4	28	125	43	23	9.1
8	6.1	6.0	e4.7	e2.5	e3.0	3.6	5.2	30	123	40	20	8.2
9	5.7	6.1	e4.8	e2.7	e3.0	3.7	5.7	33	119	37	17	7.3
10	5.5	5.9	5.0	e2.9	e3.1	3.7	5.7	37	113	36	19	7.1
11	5.5	5.9	4.9	e2.9	e3.3	3.8	5.3	37	117	36	20	9.7
12	5.1	6.0	e4.7	e2.9	e3.5	4.0	5.0	38	110	31	19	9.4
13	5.3	5.3	e4.5	e2.9	e3.5	4.0	4.8	41	104	28	18	9.0
14	5.4	5.5	e4.4	e3.2	e3.3	3.9	4.8	44	100	27	19	9.1
15	5.5	5.5	e4.0	e3.3	e3.4	3.9	5.3	47	98	23	19	9.0
16	6.1	5.5	e3.8	e3.0	e3.4	4.5	6.0	50	95	21	15	12
17	5.8	5.3	e3.5	e2.8	e3.4	4.9	7.1	53	97	20	14	10
18	6.1	5.9	e2.3	e2.9	e3.5	5.2	8.4	59	98	19	14	9.1
19	6.1	5.6	e2.7	e3.3	e3.5	5.4	9.6	63	105	21	14	8.6
20	6.8	5.5	e3.3	e3.1	e3.4	5.8	11	59	115	21	12	11
21	6.4	5.7	e3.7	e3.0	e3.1	6.3	12	58	113	21	12	11
22	6.0	5.7	e3.8	e3.2	e3.2	6.4	10	81	107	20	12	12
23	6.8	5.9	e3.6	e3.1	e3.3	6.6	10	80	107	20	10	12
24	6.0	6.3	e3.5	e3.2	e3.5	6.2	10	76	103	21	9.5	9.9
25	6.6	6.3	e3.5	e3.0	3.7	5.4	9.2	73	96	18	10	9.0
26	6.6	5.9	e3.6	e3.1	3.6	5.4	9.8	65	90	17	14	8.8
27	6.3	5.1	e3.7	e3.3	3.6	5.5	11	57	87	18	13	9.1
28	6.1	e4.7	e3.9	e3.3	3.6	5.5	13	50	80	23	10	8.7
29	6.1	e4.8	e3.9	e3.1	---	6.0	15	61	73	19	8.9	8.6
30	6.5	e5.3	e3.8	e2.9	---	5.5	14	71	67	16	8.5	8.2
31	6.6	---	e3.6	e2.9	---	5.4	---	84	---	14	8.8	---
TOTAL	191.3	173.5	126.9	93.5	92.7	146.1	237.5	1461	3155	924	439.4	280.3
MEAN	6.17	5.78	4.09	3.02	3.31	4.71	7.92	47.1	105	29.8	14.2	9.34
MAX	7.2	6.7	5.4	3.4	3.7	6.6	15	84	129	61	23	12
MIN	5.1	4.7	2.3	2.4	2.9	3.6	4.8	11	67	14	8.5	7.1
AC-FT	379	344	252	185	184	290	471	2900	6260	1830	872	556

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1997, BY WATER YEAR (WY)

MEAN	4.28	3.53	2.94	2.49	2.38	2.96	6.18	27.9	64.4	30.6	10.0	5.84
MAX	8.27	5.78	5.01	4.17	3.99	4.71	11.2	51.7	114	79.5	25.6	10.6
(WY)	1985	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1974 - 1997	
ANNUAL TOTAL	5957.1		7321.2			
ANNUAL MEAN	16.3		20.1		13.6	
HIGHEST ANNUAL MEAN					22.7	1984
LOWEST ANNUAL MEAN					4.94	1977
HIGHEST DAILY MEAN	99	Jun 15	129	Jun 2	242	Jun 27 1983
LOWEST DAILY MEAN	e2.3	Dec 18	e2.3	Dec 18	.55	Sep 10 1977
ANNUAL SEVEN-DAY MINIMUM	3.1	Jan 9	2.7	Jan 6	.75	Sep 5 1977
INSTANTANEOUS PEAK FLOW			143	Jun 2	249	Jun 27 1983
INSTANTANEOUS PEAK STAGE			2.98	Jun 2	3.46	Jun 27 1983
ANNUAL RUNOFF (AC-FT)	11820		14520		9870	
10 PERCENT EXCEEDS	55		66		40	
50 PERCENT EXCEEDS	6.3		6.4		4.4	
90 PERCENT EXCEEDS	3.3		3.3		2.0	

e-Estimated.

09067005 EAGLE RIVER AT AVON, CO

LOCATION.--Lat 39°37'54", long 106°31'19", in SE1/4NW1/4 sec.12, T.5 S., R.82 W., Eagle County, Hydrologic Unit 14010003, on left bank 100 ft downstream from bridge, 300 ft north of Highway 6 and 24, and 350 ft downstream from Beaver Creek, in the city of Avon.

DRAINAGE AREA.--395 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1988 to current year.

GAGE.--Water-stage recorder with satellite telemetry. 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	103	67	e77	86	61	198	431	3400	1470	434	224
2	157	87	62	e78	84	58	193	387	3130	1270	393	216
3	165	99	71	e78	88	60	197	360	3130	1240	368	195
4	187	113	e66	e80	76	61	236	389	e3650	1160	353	201
5	171	99	e68	e75	78	59	221	560	e3800	1100	469	196
6	155	98	e70	e72	75	58	198	772	3610	1030	602	185
7	144	75	e71	e70	70	58	177	928	3440	982	586	197
8	133	90	e73	e83	66	60	179	996	3500	972	433	183
9	125	89	e72	e90	e69	62	182	1120	3230	901	380	170
10	120	85	e71	e92	e73	62	182	1240	3040	882	445	159
11	114	81	e70	e91	e76	70	169	1330	3130	861	498	168
12	109	82	66	e89	75	83	161	1290	3050	781	427	188
13	106	83	62	e88	71	78	154	1310	2730	775	391	185
14	103	83	58	e92	64	50	152	1400	2510	827	511	179
15	103	86	57	e94	68	49	157	1470	e2200	781	407	e200
16	112	85	e53	e90	64	57	163	1700	e2250	721	362	e190
17	109	75	e50	e81	68	66	207	1940	e2300	682	321	e175
18	94	85	e47	e84	71	75	276	2160	2390	670	314	e160
19	124	91	e56	e88	66	89	330	2190	2780	721	289	e150
20	137	93	e64	e89	73	111	395	2250	3100	780	268	226
21	91	84	e74	e86	85	141	484	2070	2840	716	259	233
22	94	93	e78	e82	82	172	415	2470	2580	628	257	257
23	105	97	e74	e82	98	202	383	2320	2480	587	242	281
24	104	88	e72	82	84	221	366	2230	2180	591	233	252
25	108	78	e74	84	80	185	332	2110	2090	553	230	220
26	106	79	e77	91	86	173	346	1810	2040	500	275	200
27	96	76	e79	87	73	188	355	1520	1910	482	265	235
28	101	55	e80	82	62	186	441	1320	1860	577	245	213
29	113	e59	e80	87	---	201	493	1820	1840	547	232	189
30	101	e62	e81	82	---	178	455	2390	1570	534	220	173
31	104	---	e78	83	---	189	---	2630	---	505	216	---
TOTAL	3759	2553	2121	2609	2111	3363	8197	46913	81760	24826	10925	6000
MEAN	121	85.1	68.4	84.2	75.4	108	273	1513	2725	801	352	200
MAX	187	113	81	94	98	221	493	2630	3800	1470	602	281
MIN	91	55	47	70	62	49	152	360	1570	482	216	150
AC-FT	7460	5060	4210	5170	4190	6670	16260	93050	162200	49240	21670	11900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1997, BY WATER YEAR (WY)

MEAN	104	79.4	63.4	58.4	55.3	72.4	231	1218	1729	729	243	143
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1989 - 1997	
ANNUAL TOTAL	173290		195137			
ANNUAL MEAN	473		535		395	
HIGHEST ANNUAL MEAN					542	1993
LOWEST ANNUAL MEAN					276	1994
HIGHEST DAILY MEAN	2810	May 17	e3800	Jun 5	e3800	Jun 5 1997
LOWEST DAILY MEAN	e47	Dec 18	e47	Dec 18	a32	Nov 29 1989
ANNUAL SEVEN-DAY MINIMUM	55	Dec 13	55	Dec 13	35	Jan 4 1992
INSTANTANEOUS PEAK FLOW			b3930	Jun 6	b3930	Jun 6 1997
INSTANTANEOUS PEAK STAGE			b4.03	Jun 6	b,c4.03	Jun 6 1997
ANNUAL RUNOFF (AC-FT)	343700		387100		286000	
10 PERCENT EXCEEDS	1850		1980		1300	
50 PERCENT EXCEEDS	141		172		108	
90 PERCENT EXCEEDS	74		68		48	

e-Estimated.
a-Also occurred Jan 5-6, 1990.
b-May have been higher during period of indefinite stage-discharge relationship, Jun 4-5.
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 1996 TO SEPTEMBER 1997

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)
NOV												
07...	0915	59	351	7.7	0.5	11.5	K7	K7	160	46	12	7.5
DEC												
16...	1530	48	368	8.2	0.5	12.7	K3	K2	--	--	--	--
MAR												
10...	1430	65	432	8.8	3.5	10.3	<1	<1	190	52	14	12
MAY												
20...	1500	2140	125	8.0	7.0	9.2	25	K9	58	17	3.9	1.7
AUG												
18...	1600	310	190	8.0	15.5	9.1	K9	K1	85	24	5.9	3.4
SEP												
03...	1140	204	252	8.4	14.0	8.1	--	--	110	32	7.7	4.2
09...	1030	174	269	8.2	12.5	9.1	40	K11	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE[a] WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY[b] WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA-LINITY[c] 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												
07...	0.3	1.0	--	--	93	75	6.0	<0.1	6.3	--	212	0.29
DEC												
16...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
10...	0.4	1.5	--	--	104	97	12	0.1	6.3	--	261	0.35
MAY												
20...	0.1	0.60	--	--	52	8.7	1.7	<0.1	5.8	--	71	0.10
AUG												
18...	0.2	0.70	--	--	61	28	2.3	<0.1	5.6	--	108	0.15
SEP												
03...	0.2	0.87	87	71	--	43	3.2	<0.1	5.3	147	140	0.20
09...	--	--	--	--	81	--	--	--	--	--	--	--

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)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70957)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70958)
NOV												
07...	33.7	0.02	0.34	0.04	<0.2	<0.2	<0.01	<0.01	<0.01	--	--	--
DEC												
16...	--	0.01	0.45	0.02	<0.2	<0.2	<0.01	<0.01	0.01	--	--	--
MAR												
10...	45.9	<0.01	0.67	<0.02	0.2	<0.2	0.06	0.02	0.04	--	--	--
MAY												
20...	409	<0.01	0.15	<0.02	<0.2	<0.2	0.02	<0.01	<0.01	--	--	--
AUG												
18...	90.1	<0.01	0.18	0.02	<0.2	<0.2	<0.02	<0.01	0.01	--	--	--
SEP												
03...	81.0	<0.01	0.17	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01	1.3	4.7	e0.16
09...	--	<0.01	0.21	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01	--	--	--

e-Estimated.
K-Based on non-ideal colony count.
a-Field dissolved bicarbonate, determined by incremental titration method.
b-Field total dissolved alkalinity, determined by incremental titration method.
c-Lab total dissolved alkalinity determined by fixed end-point titration method.

09067005 EAGLE RIVER AT AVON, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV											
07...	<1.0	<1.0	440	--	<1.0	320	340	<0.1	<1	<0.2	170
MAR											
10...	<1.0	1.0	340	--	<1.0	320	320	<0.1	<1	<0.2	110
MAY											
20...	<1.0	1.9	860	--	<1.0	170	24	<0.1	<1	<0.2	32
AUG											
18...	<1.0	<1.0	490	--	<1.0	91	74	<0.1	<1	<0.2	26
SEP											
03...	--	--	--	81	--	--	94	--	--	--	--

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT				
10...	1240	118	257	8.5
DEC				
03...	1430	78	396	0.0
JAN				
13...	1520	166	379	0.0
APR				
14...	1150	114	353	3.0
MAY				
12...	1450	1240	150	7.0
30...	0830	2400	132	5.5
JUN				
04...	1525	3520	106	9.5
13...	1310	2700	118	9.5
25...	1010	2080	207	10.0
JUL				
31...	0815	522	147	12.5
SEP				
24...	1340	252	187	12.0

09067200(revised) 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 good 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	32	23	18	14	10	21	37	487	314	120	55
2	34	29	21	17	14	11	20	35	582	260	111	56
3	40	31	e18	18	14	10	20	33	515	253	102	54
4	45	32	e19	17	14	10	21	33	582	236	102	54
5	45	31	e18	19	14	12	20	37	587	231	131	52
6	42	30	e20	18	14	12	20	48	468	218	167	50
7	38	27	20	e14	13	11	19	61	478	198	195	54
8	34	29	20	e17	e11	11	19	73	543	195	129	48
9	33	29	19	17	e12	11	20	83	468	182	110	44
10	32	28	18	17	e13	11	20	98	453	183	133	41
11	31	27	17	17	13	12	19	114	475	188	139	39
12	28	26	17	18	13	12	18	119	428	164	117	49
13	27	27	17	18	12	12	17	123	373	174	117	45
14	27	27	17	17	12	12	18	143	337	170	167	47
15	26	27	e14	17	12	12	18	145	330	162	117	45
16	27	28	e16	16	12	14	19	192	306	156	99	68
17	29	26	e13	e14	12	15	22	230	303	146	90	58
18	30	27	e9.6	e13	12	15	27	234	346	146	85	54
19	35	27	e14	15	12	15	30	228	463	154	79	52
20	35	26	e16	15	12	16	32	244	563	138	74	59
21	30	25	e18	15	12	18	36	228	448	133	72	64
22	30	27	20	15	e10	19	35	332	411	128	70	72
23	33	27	20	15	e11	21	33	265	420	136	65	76
24	34	26	19	15	11	21	34	239	370	142	61	71
25	33	24	19	15	12	19	31	218	305	132	60	63
26	32	23	19	15	12	20	31	173	261	119	82	60
27	31	20	19	15	11	20	31	137	255	115	72	73
28	31	17	19	15	11	20	34	120	264	136	66	65
29	32	20	19	14	---	21	38	186	363	140	62	59
30	29	21	18	14	---	20	38	243	346	156	59	53
31	30	---	18	15	---	20	---	314	---	136	55	---
TOTAL	1019	796	554.6	495	345	463	761	4765	12530	5341	3108	1680
MEAN	32.9	26.5	17.9	16.0	12.3	14.9	25.4	154	418	172	100	56.0
MAX	45	32	23	19	14	21	38	332	587	314	195	76
MIN	26	17	9.6	13	10	10	17	33	255	115	55	39
AC-FT	2020	1580	1100	982	684	918	1510	9450	24850	10590	6160	3330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1997, BY WATER YEAR (WY)

MEAN	30.5	22.5	14.8	12.5	11.2	12.5	23.2	126	312	157	71.4	37.7
MAX	36.8	28.4	19.0	16.0	12.4	14.9	29.6	165	418	293	125	56.0
(WY)	1996	1996	1996	1997	1996	1997	1996	1996	1997	1995	1995	1997
MIN	26.1	16.8	10.8	9.43	9.26	10.6	15.4	43.8	205	44.3	24.5	23.5
(WY)	1994	1995	1994	1995	1994	1994	1995	1995	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1994 - 1997	
ANNUAL TOTAL	24389.6		31857.6			
ANNUAL MEAN	66.6		87.3		69.4	
HIGHEST ANNUAL MEAN					87.3	1997
LOWEST ANNUAL MEAN					45.5	1994
HIGHEST DAILY MEAN	533	Jun 22	587	Jun 5	845	Jun 16 1995
LOWEST DAILY MEAN	e9.6	Dec 18	e9.6	Dec 18	7.0	Feb 1 1994
ANNUAL SEVEN-DAY MINIMUM	11	Feb 11	11	Feb 26	8.0	Jan 29 1994
INSTANTANEOUS PEAK FLOW			881	Jun 20	1290	Jun 16 1995
INSTANTANEOUS PEAK STAGE			3.59	Jun 20	3.63	Jun 16 1995
ANNUAL RUNOFF (AC-FT)	48380		63190		50270	
10 PERCENT EXCEEDS	211		248		215	
50 PERCENT EXCEEDS	28		31		26	
90 PERCENT EXCEEDS	12		13		10	

e-Estimated.

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 1996 TO SEPTEMBER 1997

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)
NOV										
07...	1315	296	828	8.6	3.5	12.0	<1	K1	310	95
DEC										
16...	1215	225	968	8.4	0.5	11.9	K1	<1	--	--
MAR										
10...	1130	211	920	8.4	5.5	11.6	K6	<1	330	96
MAY										
20...	1215	2970	193	7.9	7.0	9.1	K220	110	81	24
AUG										
18...	1315	510	527	8.3	17.0	9.9	27	<1	200	62
SEP										
02...	1035	331	673	8.4	16.0	9.1	--	--	250	75
09...	0815	317	711	8.1	12.5	9.6	38	15	--	--

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[a] WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY[b] WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA-LINITY[c] 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)
NOV										
07...	18	44	1	2.1	--	--	128	190	64	0.1
DEC										
16...	--	--	--	--	--	--	--	--	--	--
MAR										
10...	22	57	1	3.1	--	--	139	220	77	0.1
MAY										
20...	5.2	4.3	0.2	0.8	--	--	64	25	4.1	<0.1
AUG										
18...	11	25	0.8	1.6	--	--	98	110	35	<0.1
SEP										
02...	14	34	1	2.0	138	113	--	140	49	0.1
09...	--	--	--	--	140	115	--	--	--	--

a-Field dissolved bicarbonate, determined by incremental titration method.
b-Field total dissolved alkalinity, determined by incremental titration method.
c-Lab total dissolved alkalinity, determined by fixed end-point titration method.
K-Based on non-ideal colony count.

09069000 EAGLE RIVER AT GYPSUM, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
NOV									
07...	8.0	--	500	0.68	400	4	0.04	0.41	0.04
DEC									
16...	--	--	--	--	--	--	0.01	0.8	0.03
MAR									
10...	7.5	--	570	0.78	325	190	0.03	0.84	0.23
MAY									
20...	6.2	--	109	0.15	872	99	<0.01	0.18	0.02
AUG									
18...	6.6	--	316	0.43	434	<1	<0.01	0.27	0.01
SEP									
02...	6.5	438	391	0.60	391	--	<0.01	0.34	0.02
09...	--	--	--	--	--	--	<0.01	0.36	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)	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)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70957)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70958)
NOV									
07...	--	<0.2	<0.2	<0.01	<0.01	0.02	--	--	--
DEC									
16...	--	<0.2	<0.2	0.09	0.06	0.03	--	--	--
MAR									
10...	0.17	1.2	0.4	0.36	0.06	0.07	--	--	--
MAY									
20...	--	0.4	<0.2	0.09	<0.01	0.01	--	--	--
AUG									
18...	--	<0.2	<0.2	<0.01	<0.01	0.01	--	--	--
SEP									
02...	--	<0.2	<0.2	<0.01	0.01	<0.01	1.4	6.6	<0.1
09...	--	<0.2	<0.2	0.01	<0.01	0.01	--	--	--

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									
07...	<1	<1	<1	49	<0.5	<1	<1	<1	<1
MAR									
10...	<1	2	<1	57	<0.5	<1	<1	5	<1
MAY									
20...	<1	1	<1	36	<0.5	<1	<1	3	<1
AUG									
18...	<1	<1	<1	44	<0.5	<1	<1	<1	<1
SEP									
02...	--	--	--	--	--	--	--	--	--

09069000 EAGLE RIVER AT GYPSUM, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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								
07...	1	<1	32	<1	<1	50	<0.1	<0.1
MAR								
10...	6	<1	<3	4	<1	55	<0.1	<0.1
MAY								
20...	5	2	34	9	<1	20	<0.1	<0.1
AUG								
18...	<1	<1	40	<1	<1	21	<0.1	<0.1
SEP								
02...	--	--	43	--	--	23	--	--

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								
07...	<1	<1	<1	<1	<1	<1	40	24
MAR								
10...	7	<1	1	<1	<1	<1	100	25
MAY								
20...	4	<1	1	<1	<1	<1	120	14
AUG								
18...	<1	<1	<1	<1	<1	<1	10	<3
SEP								
02...	--	--	--	--	--	--	--	--

09070000 EAGLE RIVER BELOW GYPSUM, CO

LOCATION.--Lat 39°38'58", long 106°57'11", in SW1/4NW1/4 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.--No estimated daily discharges. Records good. 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	340	315	250	240	220	205	359	618	4100	1990	683	357
2	324	304	264	231	225	201	354	570	4900	1720	601	357
3	334	297	214	243	223	204	342	516	4720	1640	565	341
4	367	330	232	236	217	207	352	503	4900	1520	550	357
5	367	340	220	197	224	191	376	632	5270	1440	656	350
6	354	334	250	212	229	197	340	884	4870	1330	831	344
7	338	304	255	167	221	205	329	1170	4550	1250	950	361
8	312	300	263	210	193	210	331	1310	4670	1230	711	345
9	294	317	267	232	189	222	320	1450	4310	1160	618	307
10	284	309	274	229	200	241	323	1620	3870	1110	664	286
11	276	305	278	228	226	253	328	1760	4080	1090	819	278
12	266	295	273	226	233	276	314	1710	3930	992	702	297
13	261	294	264	211	224	293	306	1730	3630	959	646	321
14	261	294	261	227	206	270	303	1840	3360	970	773	305
15	262	296	220	232	218	265	303	1870	3270	941	704	292
16	264	308	230	205	215	308	295	2120	3120	870	586	362
17	297	298	192	187	221	305	317	2420	3070	809	539	389
18	275	289	126	204	231	289	388	2720	3170	798	514	353
19	281	297	166	221	228	277	453	2740	3490	823	483	348
20	333	305	194	209	224	290	512	2900	4000	915	444	405
21	306	303	262	226	216	311	621	2670	3790	845	426	456
22	268	308	271	214	212	345	598	3210	3510	763	416	462
23	292	325	257	209	225	355	550	3210	3500	690	408	510
24	321	318	235	219	240	389	537	3010	3240	744	393	466
25	322	296	245	207	212	369	488	2880	2850	692	381	439
26	333	289	258	239	215	347	486	2530	2580	628	443	419
27	319	285	265	235	223	346	477	2140	2410	584	469	456
28	316	239	263	225	208	344	556	1860	2250	721	423	465
29	337	236	246	226	---	372	658	2100	2200	737	392	424
30	334	269	240	217	---	336	662	2990	2120	779	366	392
31	319	---	244	222	---	343	---	3100	---	780	355	---
TOTAL	9557	8999	7479	6786	6118	8766	12578	60783	109730	31520	17511	11244
MEAN	308	300	241	219	219	283	419	1961	3658	1017	565	375
MAX	367	340	278	243	240	389	662	3210	5270	1990	950	510
MIN	261	236	126	167	189	191	295	503	2120	584	355	278
AC-FT	18960	17850	14830	13460	12140	17390	24950	120600	217600	62520	34730	22300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1997, BY WATER YEAR (WY)

MEAN	260	241	199	181	174	189	352	1342	2336	1032	387	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1947 - 1997	
ANNUAL TOTAL	270952		291071			
ANNUAL MEAN	740		797		581	
HIGHEST ANNUAL MEAN					1082	1984
LOWEST ANNUAL MEAN					264	1977
HIGHEST DAILY MEAN	4260	May 20	5270	Jun 5	6580	May 25 1984
LOWEST DAILY MEAN	126	Dec 18	126	Dec 18	78	Dec 10 1994
ANNUAL SEVEN-DAY MINIMUM	181	Feb 11	198	Dec 14	99	Aug 29 1990
INSTANTANEOUS PEAK FLOW			5780	Jun 5	7020	May 25 1984
INSTANTANEOUS PEAK STAGE			8.78	Jun 5	9.46	May 25 1984
ANNUAL RUNOFF (AC-FT)	537400		577300		420900	
10 PERCENT EXCEEDS	2500		2550		1600	
50 PERCENT EXCEEDS	297		334		243	
90 PERCENT EXCEEDS	195		217		158	

09070500 COLORADO RIVER NEAR DOTSERO, CO

LOCATION.--Lat 39°38'38", long 107°04'38", in NW1/4SE1/4 sec.6, T.5 S., R.86 W., Eagle County, Hydrologic Unit 14010001, on left bank about 500 ft south of Interstate Highway 70, 1.5 mi west of Dotsero, and 1.5 mi downstream from Eagle River.

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1450	1220	1170	e1140	1170	1080	2000	3370	12700	7950	2990	1920
2	1370	1190	1210	e1150	1150	1110	1920	3180	14700	6960	3250	1910
3	1380	1170	1060	e1160	1170	1110	1850	3080	15200	6200	3150	1870
4	1400	1270	1050	e1170	1130	1130	1890	3090	15500	5730	3240	1850
5	1400	1240	1150	e1000	1160	1120	1990	3460	15500	5430	3300	1850
6	1380	1230	1230	e960	1150	1200	1870	4220	15600	5140	3460	1940
7	1340	1110	1170	e1000	1100	1220	1770	5130	15400	4860	3720	1990
8	1300	1100	1180	e1150	1060	1230	1730	5730	15300	4520	3330	1980
9	1280	1110	1210	e1180	1070	1260	1760	6180	15000	4220	3130	1870
10	1320	1190	1220	e1200	1090	1290	1800	6560	14000	4070	3130	1610
11	1280	1190	1260	e1180	1180	1330	1720	6970	14400	3970	3580	1450
12	1300	1170	1220	e1160	1280	1390	1620	7160	14300	3830	3940	1440
13	1280	1180	1180	e1000	1210	1450	1580	7230	13800	3720	3990	1470
14	1270	1180	1160	e1120	1170	1390	1570	7450	13200	3570	3860	1460
15	1260	1210	1020	e1150	1160	1360	1580	7620	12600	3420	3570	1430
16	1230	1250	1010	e1180	1130	1490	1610	8210	11400	3290	3200	1510
17	1200	1130	968	e1120	1130	1870	1740	8880	11000	3230	2790	1560
18	1210	1100	e820	e1090	1190	1910	2040	9700	11300	3070	2630	1490
19	1220	1160	e730	e1150	1150	1820	2330	10000	11900	2950	2600	1510
20	1300	1210	e730	e1180	1120	1780	2540	10400	12800	3050	2610	1870
21	1280	1330	e990	e1200	1100	1870	2900	10500	12700	2860	2910	2280
22	1200	1380	e1200	e1200	1080	1970	3060	11300	12400	2660	2960	2120
23	1220	1430	e1220	e1200	1100	2080	2830	12300	12300	2530	2700	2040
24	1260	1400	e1190	e1190	1190	2250	2800	12200	11900	2610	2630	1980
25	1270	1350	e1140	e1170	1100	2200	2740	11600	11600	2450	2600	1880
26	1250	1310	e1190	e1210	1090	2000	2720	10700	10800	2210	2500	1820
27	1200	1250	e1220	e1200	1150	1990	2720	9450	9700	2120	2240	1870
28	1200	1170	e1200	e1100	1100	2020	2960	8330	9040	2210	2120	1860
29	1260	1130	e1180	e1170	---	2090	3390	8340	8740	2250	2060	1740
30	1240	1200	e1170	e1100	---	1990	3620	10800	8520	2310	1990	1690
31	1210	---	e1150	e1150	---	1930	---	11000	---	2500	1930	---
TOTAL	39760	36560	34598	35330	31880	49930	66650	244140	383300	115890	92110	53260
MEAN	1283	1219	1116	1140	1139	1611	2222	7875	12780	3738	2971	1775
MAX	1450	1430	1260	1210	1280	2250	3620	12300	15600	7950	3990	2280
MIN	1200	1100	730	960	1060	1080	1570	3080	8520	2120	1930	1430
AC-FT	78860	72520	68630	70080	63230	99040	132200	484300	760300	229900	182700	105600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1997, BY WATER YEAR (WY)

MEAN	1192	1084	952	905	918	1045	1888	4897	6507	3199	1722	1291
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1941 - 1997	
ANNUAL TOTAL	1060038		1183408			
ANNUAL MEAN	2896		3242		2137	
HIGHEST ANNUAL MEAN					4173	1984
LOWEST ANNUAL MEAN					1117	1977
HIGHEST DAILY MEAN	13300	May 20	15600	Jun 6	20800	May 25 1984
LOWEST DAILY MEAN	e,a730	Dec 19	e,a730	Dec 19	b350	Jan 5 1944
ANNUAL SEVEN-DAY MINIMUM	895	Dec 15	895	Dec 15	417	Jan 13 1944
INSTANTANEOUS PEAK FLOW			16100	Jun 4	22200	May 25 1984
INSTANTANEOUS PEAK STAGE			11.52	Jun 4	14.20	May 25 1984
ANNUAL RUNOFF (AC-FT)	2103000		2347000		1548000	
10 PERCENT EXCEEDS	7800		9820		5050	
50 PERCENT EXCEEDS	1450		1690		1260	
90 PERCENT EXCEEDS	1010		1120		756	

e-Estimated.
a-Also occurred Dec 20.
b-Also occurred Jan 1, 1995.

09070500 COLORADO RIVER NEAR DOTSERO, CO--Continued

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WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1996 to September 1997.

INSTRUMENTATION.--Water temperature sensor and logger since October 1996.

REMARKS.--Upper Colorado River Basin National Water Quality Assessment Program station (NAWQA). Daily water temperature data for Oct. 1 to June 5 are good, the remainder are poor. Data not published are either missing or of unacceptable quality.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, not determined; minimum, 0.0°C on many days December, and February to March.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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...	1045	1290	481	8.3	11.0	9.7	170	52	10	24	0.8	2.0
NOV												
15...	0920	1190	451	8.0	4.0	10.6	160	48	10	23	0.8	1.9
DEC												
11...	1140	1270	429	8.1	2.0	12.4	160	49	9.9	22	0.7	1.9
JAN												
14...	1005	1230	489	8.1	0.0	--	170	50	11	27	0.9	2.1
FEB												
19...	1305	1160	459	8.4	2.0	13.2	160	47	9.6	22	0.8	2.5
MAR												
18...	1045	1810	434	7.9	5.5	11.4	150	46	9.7	21	0.7	3.0
APR												
15...	0935	1600	425	8.2	6.0	10.4	160	46	10	20	0.7	2.2
29...	1115	3420	347	7.8	9.0	8.7	140	42	8.8	13	0.5	1.8
MAY												
14...	1300	7550	260	7.9	9.0	9.6	100	30	6.9	8.2	0.4	1.3
24...	1010	12400	208	7.9	9.0	9.0	88	26	5.8	6.8	0.3	1.3
JUN												
02...	1150	15400	192	8.1	11.5	8.6	80	24	4.9	4.8	0.2	1.2
25...	1145	11800	182	7.9	12.5	8.5	74	23	4.1	5.5	0.3	1.1
JUL												
15...	1250	3470	313	8.4	16.0	8.4	120	37	6.9	13	0.5	1.5
AUG												
12...	1440	3980	293	8.2	14.5	9.1	110	33	6.2	12	0.5	1.5
SEP												
17...	1640	1570	454	--	16.0	8.0	170	50	10	22	0.8	1.9

09070500 COLORADO RIVER NEAR DOTSERO, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	BICAR-BONATE[a] WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE[b] WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA-LINITY[c] 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)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT												
09...	115	--	94	88	31	0.3	8.5	292	272	0.40	1020	<0.01
NOV												
15...	123	--	101	82	29	0.3	9.2	287	264	0.39	922	<0.01
DEC												
11...	96	--	79	74	27	0.2	9.4	261	241	0.35	895	0.01
JAN												
14...	110	--	90	82	35	0.3	9.8	298	272	0.41	990	0.02
FEB												
19...	90	2	78	79	32	0.3	8.1	270	248	0.37	846	<0.01
MAR												
18...	105	--	86	82	23	0.3	9.0	265	247	0.36	1300	<0.01
APR												
15...	103	--	84	76	23	0.3	8.5	262	238	0.36	1130	<0.01
29...	109	--	89	59	12	0.1	9.4	208	201	0.28	1920	<0.01
MAY												
14...	81	--	66	41	5.4	0.2	9.7	161	143	0.22	3280	<0.01
24...	78	--	64	29	3.8	0.1	10	140	122	0.19	4690	<0.01
JUN												
02...	74	--	61	24	3.2	<0.1	7.7	126	107	0.17	5240	<0.01
25...	65	--	54	24	4.6	0.2	7.4	119	103	0.16	3790	<0.01
JUL												
15...	74	5	69	51	14	0.2	6.7	194	172	0.26	1820	<0.01
AUG												
12...	74	--	61	46	12	0.2	8.5	184	156	0.25	1980	<0.01
SEP												
17...	100	1	84	85	27	0.2	8.2	275	255	0.37	1170	<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)	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)
OCT											
09...	<0.05	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	2.6	0.4	28	13
NOV											
15...	0.12	0.03	<0.2	<0.2	0.02	<0.01	<0.01	2.1	0.4	19	11
DEC											
11...	0.16	<0.015	<0.2	<0.2	0.01	<0.01	0.01	1.9	0.4	15	10
JAN											
14...	0.21	0.04	<0.2	<0.2	0.02	0.02	0.01	1.8	0.2	15	18
FEB											
19...	0.24	<0.015	0.4	0.2	<0.01	<0.01	0.01	3.1	0.3	12	19
MAR											
18...	0.26	0.08	0.9	0.4	0.20	<0.01	0.02	4.4	2.5	12	24
APR											
15...	0.06	<0.015	0.2	<0.2	0.02	<0.01	<0.01	2.8	0.5	15	25
29...	0.16	<0.015	0.6	<0.2	0.11	<0.01	<0.01	3.6	2.3	22	24
MAY											
14...	0.14	<0.015	0.7	<0.2	0.12	<0.01	<0.01	4.7	2.8	26	15
24...	0.09	<0.015	0.7	<0.2	0.13	<0.01	0.01	6.0	1.7	31	10
JUN											
02...	0.11	<0.015	0.8	<0.2	0.28	<0.01	0.01	5.1	3.6	26	15
25...	0.09	<0.015	<0.2	<0.2	<0.01	0.01	<0.01	3.4	0.7	20	8
JUL											
15...	<0.05	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	2.6	0.2	28	10
AUG											
12...	0.14	<0.015	0.4	<0.2	0.04	<0.01	0.01	2.5	0.8	20	10
SEP											
17...	0.09	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	2.8	0.2	29	11

a-Field dissolved bicarbonate, determined by incremental titration method.
b-Field dissolved carbonate, determined by incremental titration method.
c-Field total dissolved alkalinity, determined by incremental titration method.

09070500 COLORADO RIVER NEAR DOTSERO, CO--Continued

(National Water-Quality Assessment Program station)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT				
03...	1240	1370	527	13.0
09...	1055	1290	481	11.0
NOV				
05...	1550	1240	542	5.0
15...	0910	1190	451	4.0
DEC				
11...	1125	1260	429	2.0
31...	1155	1140	479	0.0
JAN				
14...	1015	1240	489	0.0
FEB				
19...	1315	1160	459	2.0
24...	1530	1100	493	2.0
MAR				
18...	1030	1810	434	5.5
APR				
09...	0825	1820	455	5.0
15...	0925	1600	425	6.0
29...	1045	3400	347	9.0
MAY				
14...	1240	7550	260	9.0
15...	0715	7730	266	8.0
24...	0920	12400	208	9.0
29...	0835	7900	271	9.0
JUN				
02...	1200	15400	192	11.5
25...	1055	11800	182	12.5
25...	1805	11500	188	--
JUL				
15...	1425	3490	313	16.5
31...	0845	2400	399	16.5
AUG				
12...	1510	3960	293	14.5
SEP				
16...	1615	1570	513	16.0
17...	1540	1570	454	16.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	SAMPLER[f] TYPE (CODE) (84164)	MEDIUM[g] CODE
OCT							
09...	1045	1290	5[d]	17	--	3045	9
09...	1055	1290	4	14	--	3045	9
NOV							
15...	0910	1190	8	26	--	3045	9
15...	0920	1190	5[d]	16	--	3045	9
DEC							
11...	1125	1260	7	24	--	3045	9
11...	1140	1270	6[d]	21	--	3045	9
JAN							
14...	1005	1230	5[d]	17	--	3045	9
14...	1015	1240	6	20	--	3045	9
FEB							
19...	1305	1160	12[d]	38	--	3045	9
19...	1315	1160	12	38	--	3045	9
MAR							
18...	1030	1810	221	1080	97	3045	9
18...	1045	1810	205[d]	1000	98	3045	9
APR							
15...	0925	1600	20	86	--	3045	9
15...	0935	1600	18[d]	78	--	3045	9
29...	1045	3400	232	2130	52	3009	9
29...	1115	3420	583[d]	5380	17	3039	9
MAY							
14...	1240	7550	169	3450	73	3009	9
14...	1300	7550	166[d]	3380	71	3039	9
24...	0920	12400	189	6330	62	3009	9
24...	1010	12400	228[d]	7630	--	3039	9
JUN							
02...	1150	15400	350[d]	14600	--	3039	9
02...	1200	15400	338	14100	77	3009	9
25...	1055	11800	78	2490	53	3009	9
25...	1145	11800	61[d]	1940	--	3039	9
25...	1146	12200	65[d]	2140	--	3039	R
JUL							
15...	1250	3470	13[d]	122	--	3039	9
15...	1425	3490	14	132	--	3009	9
AUG							
12...	1440	3980	65[d]	698	--	3039	9
12...	1510	3960	66	706	70	3009	9
SEP							
17...	1540	1570	12[d]	51	--	3009	9
17...	1640	1570	3	13	--	3039	9

d-Suspended-sediment concentration determined from a subsample split of a composite sample.
f-Code 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.
g-A medium code of 9 is a regular sample; a code of R is a replicate sample.

09070500 COLORADO RIVER NEAR DOTSERO, CO--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	5.7	3.8	4.8	.9	.0	.3	.7	.3	.5
2	---	---	---	5.4	3.7	4.7	1.1	.0	.4	1.0	.3	.6
3	---	---	---	5.1	3.5	4.1	.3	.0	.1	1.3	.7	.9
4	---	---	---	5.5	3.8	4.7	.3	.0	.1	1.0	.3	.6
5	---	---	---	5.1	4.1	4.6	.3	.0	.2	.5	.2	.3
6	---	---	---	4.8	3.5	4.1	.3	.2	.2	.5	.2	.3
7	---	---	---	3.8	1.9	2.8	.5	.0	.2	.3	.2	.2
8	---	---	---	3.3	1.5	2.6	.5	.0	.2	.3	.2	.2
9	---	---	---	3.7	1.9	3.0	.5	.0	.2	.3	.2	.2
10	12.8	10.2	11.7	3.8	1.9	3.1	1.6	.3	.9	.3	.2	.2
11	12.6	9.9	11.5	3.8	1.9	3.2	2.4	1.3	1.8	.3	.2	.2
12	12.6	10.0	11.5	4.0	2.1	3.2	2.9	1.6	2.2	.3	.2	.2
13	12.5	9.9	11.4	4.1	2.4	3.4	3.0	1.9	2.5	.5	.2	.4
14	12.5	10.2	11.4	4.4	2.9	3.7	2.6	1.2	2.0	.5	.2	.3
15	11.6	9.2	10.5	4.6	4.0	4.3	1.2	.2	.3	.3	.2	.2
16	10.3	7.7	8.7	4.0	3.1	3.6	.3	.2	.2	.3	.2	.2
17	7.7	6.0	7.0	3.1	1.6	2.0	.3	.2	.2	.5	.2	.3
18	7.1	4.6	6.1	3.2	1.6	2.4	.2	.0	.1	.5	.2	.3
19	7.7	5.5	6.8	4.3	2.4	3.4	.0	.0	.0	.3	.2	.3
20	7.7	4.9	6.2	5.2	3.3	4.4	.0	.0	.0	.3	.2	.3
21	5.1	3.3	4.2	5.0	3.5	4.4	.0	.0	.0	.3	.2	.3
22	4.1	2.2	3.4	5.8	4.6	5.2	.0	.0	.0	.3	.3	.3
23	5.1	2.7	4.0	5.8	5.3	5.6	.0	.0	.0	.3	.3	.3
24	5.2	3.5	4.5	5.3	4.0	4.6	.2	.0	.0	.3	.2	.3
25	5.2	4.4	4.9	4.4	3.2	3.8	.2	.0	.1	.3	.2	.3
26	5.4	3.7	4.6	4.0	3.2	3.6	.2	.0	.0	.3	.3	.3
27	5.7	3.8	4.7	3.5	2.1	2.6	.2	.0	.1	.5	.3	.4
28	5.2	3.8	4.7	2.1	.3	1.2	.2	.0	.1	.5	.2	.3
29	5.2	3.7	4.4	1.1	.2	.8	.3	.2	.2	.7	.3	.4
30	5.2	3.2	4.2	1.5	.5	1.0	.7	.3	.5	.7	.3	.4
31	4.9	3.5	4.4	---	---	---	.7	.3	.4	.7	.3	.5
MONTH	---	---	---	5.8	.2	3.5	3.0	.0	.4	1.3	.2	.3
		FEBRUARY			MARCH			APRIL			MAY	
1	1.0	.3	.5	2.4	.0	1.0	7.2	5.5	6.4	8.2	6.2	7.2
2	.8	.3	.5	2.4	.0	1.3	7.2	5.1	6.2	8.0	5.4	6.8
3	1.1	.5	.8	2.7	.8	1.9	8.5	5.2	7.0	9.1	5.8	7.5
4	1.5	.5	.9	3.0	1.0	1.8	7.9	6.8	7.4	11.3	7.4	9.4
5	1.5	.7	1.0	2.6	.0	1.2	6.8	4.0	5.3	12.5	9.7	11.1
6	1.8	.8	1.1	3.2	.0	1.6	5.4	2.2	3.9	12.6	10.2	11.5
7	1.6	.3	.8	4.0	.3	2.3	6.2	2.9	4.6	12.2	9.7	11.0
8	1.1	.3	.6	4.1	1.8	2.9	6.6	4.0	5.5	10.9	8.3	9.9
9	1.0	.3	.5	5.4	1.9	3.7	6.8	5.4	6.1	11.1	8.2	9.7
10	.8	.3	.5	6.0	2.6	4.4	7.9	5.2	6.4	10.9	8.5	9.7
11	1.1	.3	.6	6.3	2.9	4.8	6.6	4.8	5.5	10.2	8.3	9.4
12	1.3	.3	.6	6.8	3.3	5.2	6.5	3.3	5.0	10.8	8.3	9.5
13	1.6	.3	.7	6.2	3.7	5.0	6.9	3.0	5.1	10.2	8.2	9.3
14	1.5	.3	.7	5.1	2.7	4.0	8.0	4.3	6.3	9.7	8.0	9.0
15	1.6	.5	.9	6.3	3.0	4.8	9.4	6.0	7.7	10.3	8.0	9.2
16	1.9	.5	1.1	7.6	4.4	6.2	10.6	6.6	8.8	10.6	8.6	9.6
17	2.4	.7	1.5	7.6	5.2	6.4	11.7	8.0	10.0	10.8	8.5	9.7
18	2.7	1.6	2.1	7.1	4.8	5.9	11.4	8.8	10.1	10.5	8.6	9.6
19	2.6	1.0	1.7	7.9	5.1	6.4	11.7	8.8	10.2	10.9	8.3	9.7
20	1.5	.5	.9	8.5	5.7	7.1	10.3	8.6	9.5	10.3	8.2	9.3
21	2.1	.0	.7	8.8	5.8	7.4	9.3	6.8	8.1	10.2	8.5	9.3
22	1.3	.0	.4	8.6	6.2	7.4	8.0	5.8	6.9	9.6	8.0	8.8
23	.8	.0	.2	8.8	6.3	7.6	7.7	6.2	7.0	10.0	7.2	8.6
24	1.9	.0	.7	7.5	4.1	6.0	7.6	6.6	7.2	9.7	8.5	9.1
25	2.2	.0	.8	6.0	3.2	4.6	8.9	5.7	7.4	9.4	8.0	8.7
26	2.4	.0	1.0	6.9	3.8	5.4	9.7	7.6	8.6	8.8	7.6	8.2
27	2.4	.3	1.4	8.0	5.4	6.6	10.8	7.9	9.3	9.4	7.2	8.2
28	1.5	.5	1.0	7.4	4.8	6.2	10.5	9.7	10.1	10.2	8.0	9.0
29	---	---	---	8.0	6.0	6.9	9.9	7.1	8.7	9.7	8.8	9.2
30	---	---	---	8.0	5.1	6.5	8.2	5.4	6.9	10.3	8.0	9.1
31	---	---	---	7.6	5.5	6.5	---	---	---	12.0	9.1	10.6
MONTH	2.7	.0	.9	8.8	.0	4.8	11.7	2.2	7.2	12.6	5.4	9.3

09070500 COLORADO RIVER NEAR DOTSERO, CO--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	12.0	9.7	11.1	---	---	---	---	---	---	---	---	---
2	11.4	9.4	10.4	---	---	---	---	---	---	---	---	---
3	11.6	9.1	10.4	---	---	---	---	---	---	---	---	---
4	12.0	9.6	11.0	---	---	---	---	---	---	---	---	---
5	11.9	9.9	11.0	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

09071750 COLORADO RIVER ABOVE GLENWOOD SPRINGS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°33'32", long 107°17'25", 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. 3 to Feb. 11 which are fair. Daily water temperature records are good. Interruptions in record are due to equipment malfunctions.

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°C on many days during the winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 855 microsiemens, Dec. 19; minimum, 184 microsiemens, June 23-25.
WATER TEMPERATURE: Maximum, 19.1°C, July 25; minimum, 0°C on many days during the winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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										
01...	1330	1230	686	8.6	5.0	11.0	190	57	11	58
JAN										
03...	0930	1320	575	8.2	1.0	13.5	160	47	9.5	49
31...	1330	1110	610	8.3	0.0	11.9	160	48	9.6	50
FEB										
26...	1215	1020	569	8.4	1.0	11.9	150	46	9.4	49
MAR										
21...	1145	2770	550	8.1	6.5	8.5	160	46	9.8	42
APR										
24...	0930	2540	411	8.1	7.0	9.8	130	37	8.1	28
MAY										
21...	1445	10300	246	7.9	9.5	9.6	98	28	6.4	9.0
JUN										
18...	1200	11400	217	7.8	11.5	9.1	88	27	5.1	8.9
30...	1400	8750	240	8.0	14.5	8.3	86	27	4.8	11
AUG										
05...	1040	3480	372	8.1	17.0	8.6	120	36	6.7	25
26...	1030	3090	420	8.0	17.5	8.4	130	40	7.3	30
SEP										
10...	0910	1800	533	8.2	15.5	8.7	150	45	9.1	43

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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)
NOV										
01...	2	2.3	113	91	84	0.2	10	381	0.52	1260
JAN										
03...	2	1.9	96	72	71	0.3	9.7	318	0.43	1130
31...	2	2.0	99	76	77	0.3	10	332	0.45	994
FEB										
26...	2	2.2	98	76	75	0.3	9.3	326	0.44	896
MAR										
21...	1	3.5	99	76	58	0.3	9.9	305	0.41	2280
APR										
24...	1	1.8	94	55	36	0.2	10	233	0.32	1600
MAY										
21...	0.4	1.2	74	34	8.1	0.1	10	141	0.19	3940
JUN										
18...	0.4	1.1	65	26	10	0.2	8.3	126	0.17	3890
30...	0.5	1.2	62	31	13	0.2	7.5	132	0.18	3130
AUG										
05...	1	1.6	77	51	32	0.3	7.9	207	0.28	1940
26...	1	1.8	82	59	41	0.2	8.5	238	0.32	1990
SEP										
10...	2	2.0	95	72	58	0.3	7.6	293	0.40	1430

09071750 COLORADO RIVER ABOVE GLENWOOD SPRINGS, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	580	562	572	682	648	670	614	594	603	633	567	605
2	588	548	573	657	643	649	607	566	581	652	577	609
3	602	573	590	659	646	652	647	576	610	628	568	595
4	609	589	602	663	623	649	709	630	666	626	597	607
5	603	562	594	652	628	640	741	698	712	701	557	632
6	594	562	584	645	627	636	702	640	667	706	661	678
7	614	570	603	670	629	654	665	635	646	721	578	659
8	614	602	607	672	658	664	663	624	642	675	550	607
9	633	582	620	678	664	669	652	605	627	666	606	633
10	625	596	617	682	637	660	630	579	606	630	572	603
11	621	593	611	650	615	637	615	583	598	629	567	601
12	632	618	626	641	617	633	597	581	588	---	---	---
13	633	609	625	635	621	629	604	593	599	723	502	557
14	637	614	633	628	616	624	603	596	600	690	601	646
15	642	608	626	618	610	616	656	599	624	---	---	---
16	652	624	644	612	603	608	693	637	670	649	557	596
17	666	627	656	630	596	606	756	663	693	661	558	608
18	717	650	685	652	628	635	822	749	779	705	657	674
19	719	662	682	654	626	637	855	736	795	---	---	---
20	735	657	703	630	620	625	764	696	727	---	---	---
21	712	683	697	620	572	594	---	---	---	666	629	652
22	722	694	708	577	558	572	---	---	---	660	612	642
23	731	672	706	574	558	567	587	577	581	661	601	636
24	713	670	702	568	556	562	619	567	593	---	---	---
25	701	692	699	568	557	562	661	603	630	---	---	---
26	709	692	700	577	564	572	619	583	598	675	599	623
27	715	682	709	592	565	581	594	579	585	652	619	636
28	726	690	709	590	579	587	587	571	580	---	---	---
29	717	682	703	615	588	596	615	564	587	647	585	616
30	682	653	672	615	598	604	628	565	597	668	629	642
31	670	658	665	---	---	---	639	574	602	643	607	627
MONTH	735	548	649	682	556	620	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	656	619	638	631	597	613	506	466	486	425	402	409
2	662	617	634	629	594	615	499	482	492	441	424	430
3	660	592	622	623	591	606	507	496	501	446	441	444
4	667	624	641	621	604	614	516	495	508	447	443	445
5	667	609	631	616	595	602	518	493	506	446	422	437
6	634	620	628	618	584	603	505	487	496	422	377	403
7	661	610	633	608	571	595	516	499	510	377	336	356
8	---	---	---	611	584	598	528	505	520	338	317	326
9	---	---	---	603	589	597	546	507	528	321	304	312
10	690	---	---	601	587	594	529	515	524	323	307	313
11	709	644	676	607	581	596	536	525	531	316	300	309
12	680	585	618	620	584	603	550	536	543	339	301	323
13	613	576	597	646	585	611	568	543	557	326	313	320
14	636	581	614	627	582	605	572	542	557	326	312	318
15	635	594	609	603	577	589	568	540	556	318	311	314
16	641	599	616	691	585	628	554	534	547	315	301	308
17	641	571	609	658	507	595	541	514	532	317	300	308
18	634	572	603	537	485	510	530	475	506	315	254	294
19	655	589	615	526	474	502	482	442	464	275	246	262
20	651	579	621	549	485	515	446	415	433	263	222	241
21	674	597	629	536	494	519	421	391	408	240	193	236
22	670	587	629	529	498	513	392	370	381	240	234	237
23	668	600	632	508	489	492	391	371	381	237	231	233
24	660	593	621	490	467	475	423	390	408	233	226	229
25	630	590	614	471	447	456	451	422	433	231	227	229
26	641	575	611	484	460	468	463	446	454	235	231	232
27	639	586	610	500	471	487	457	448	453	250	235	242
28	620	578	602	502	468	483	449	429	441	265	250	258
29	---	---	---	488	462	474	429	406	418	269	252	265
30	---	---	---	480	464	471	412	396	401	261	217	226
31	---	---	---	495	465	479	---	---	---	220	210	214
MONTH	---	---	---	691	447	552	572	370	483	447	193	306

09071750 COLORADO RIVER ABOVE GLENWOOD SPRINGS, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	218	207	213	249	240	243	471	415	452	540	531	536
2	218	211	213	275	249	262	415	388	398	539	532	536
3	218	210	214	284	275	280	403	393	397	535	529	533
4	216	208	212	293	284	289	395	382	386	543	534	539
5	214	205	209	299	292	297	398	380	387	550	543	546
6	206	202	204	---	---	---	399	379	390	546	526	535
7	206	203	204	---	---	---	384	357	370	526	521	523
8	207	202	204	---	---	---	385	357	371	522	511	516
9	219	205	208	344	337	341	393	385	388	519	442	511
10	219	214	217	344	339	342	419	392	403	591	442	545
11	218	210	213	340	336	338	420	384	405	636	591	627
12	217	211	214	348	337	342	388	346	367	652	636	645
13	215	208	212	355	343	349	349	338	342	650	641	645
14	218	212	217	362	355	357	367	349	355	641	627	632
15	224	216	220	363	357	360	367	347	355	640	629	635
16	231	224	228	376	362	369	393	367	376	642	624	638
17	229	223	225	387	374	378	434	393	411	639	599	625
18	225	210	218	403	382	389	445	434	443	621	602	613
19	227	200	206	414	401	407	455	451	453	629	615	626
20	202	188	193	416	405	409	455	451	453	---	---	---
21	193	186	189	429	410	416	454	425	435	---	---	---
22	192	187	189	453	429	441	506	385	424	---	---	---
23	190	184	187	469	453	462	427	413	420	562	548	554
24	189	184	187	473	457	468	434	427	429	549	525	533
25	190	184	187	477	454	467	435	431	433	538	524	533
26	198	189	192	512	476	496	462	428	437	547	522	543
27	---	---	---	528	512	518	485	462	479	548	510	542
28	---	---	---	530	510	525	499	484	493	542	529	536
29	---	---	---	510	491	498	507	499	504	541	515	532
30	---	---	---	506	486	498	515	503	508	549	540	544
31	---	---	---	502	469	483	532	509	524	---	---	---
MONTH	---	---	---	---	---	---	532	338	419	---	---	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	12.3	11.3	11.9	5.1	4.4	4.6	.9	.0	.3	.4	.0	.2
2	12.7	11.7	12.2	5.2	4.0	4.7	.2	.0	.0	1.1	.0	.3
3	13.4	12.2	12.8	5.0	4.0	4.6	.4	.0	.1	1.2	.8	.9
4	13.2	12.0	12.7	4.9	4.0	4.4	.0	.0	.0	.9	.0	.5
5	13.4	12.4	13.0	5.3	4.3	4.8	.0	.0	.0	.4	.0	.1
6	13.5	12.4	13.1	4.8	3.7	4.3	.0	.0	.0	.0	.0	.0
7	13.3	11.9	12.7	4.1	2.2	3.2	.1	.0	.0	.0	.0	.0
8	12.9	11.5	12.4	2.9	1.9	2.5	.1	.0	.0	.0	.0	.0
9	12.5	11.2	12.1	3.3	2.5	2.9	.2	.0	.0	.0	.0	.0
10	12.4	11.1	11.9	3.5	2.3	3.0	1.3	.2	.5	.0	.0	.0
11	12.3	10.9	11.8	3.4	2.4	3.0	2.1	1.3	1.6	.0	.0	.0
12	12.0	10.8	11.6	3.6	2.5	3.2	2.5	1.7	2.0	.0	.0	.0
13	12.1	10.7	11.6	3.7	2.8	3.4	2.7	2.2	2.4	.0	.0	.0
14	11.9	10.8	11.6	4.0	3.4	3.7	2.8	1.5	2.2	.0	.0	.0
15	11.8	9.8	11.0	4.4	3.8	4.1	1.5	.0	.5	.0	.0	.0
16	10.8	8.3	9.8	4.1	3.0	3.6	.0	.0	.0	.0	.0	.0
17	8.3	6.4	7.5	3.2	1.9	2.6	.0	.0	.0	.0	.0	.0
18	7.1	5.5	6.4	2.4	1.8	2.0	.0	.0	.0	.0	.0	.0
19	7.1	6.2	6.8	3.6	2.4	3.0	.0	.0	.0	.0	.0	.0
20	7.3	5.8	6.8	4.4	3.6	4.0	.0	.0	.0	.0	.0	.0
21	5.8	4.0	4.8	4.8	3.9	4.5	.0	.0	.0	.0	.0	.0
22	4.6	3.1	3.9	5.4	4.7	5.0	.0	.0	.0	.1	.0	.0
23	4.2	3.3	3.7	5.8	5.3	5.5	.0	.0	.0	.0	.0	.0
24	4.8	4.1	4.5	5.5	4.1	4.9	.0	.0	.0	.0	.0	.0
25	5.2	4.6	5.0	4.8	3.6	4.2	.0	.0	.0	.0	.0	.0
26	4.9	4.3	4.6	4.0	3.5	3.7	.1	.0	.0	.2	.0	.0
27	5.2	4.3	4.7	3.7	2.2	3.0	.0	.0	.0	.5	.0	.1
28	5.3	4.8	5.0	2.5	.5	1.5	.3	.0	.1	.1	.0	.0
29	4.9	3.8	4.3	1.4	.6	1.0	.1	.0	.0	.4	.0	.1
30	4.8	3.9	4.3	1.2	.3	.8	.5	.0	.1	.3	.0	.0
31	4.8	4.2	4.5	---	---	---	1.3	.0	.2	.4	.0	.1
MONTH	13.5	3.1	8.7	5.8	.3	3.5	2.8	.0	.3	1.2	.0	.1

09071750 COLORADO RIVER ABOVE GLENWOOD SPRINGS, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.7	.0	.3	1.0	.1	.6	7.2	5.7	6.2	7.8	6.8	7.2
2	.8	.2	.4	1.6	.6	1.2	6.7	5.8	6.2	7.6	6.1	6.9
3	.7	.2	.5	2.1	1.4	1.7	7.8	6.2	6.8	8.3	6.5	7.2
4	1.0	.3	.6	2.6	1.5	1.9	7.8	7.0	7.4	10.4	7.8	8.8
5	1.2	.5	.8	2.0	.6	1.3	7.0	5.1	5.9	11.8	10.2	10.8
6	1.3	.6	.9	1.9	.8	1.4	5.1	3.8	4.2	12.1	11.1	11.5
7	.7	.0	.3	2.8	1.5	2.2	5.5	4.0	4.6	12.1	11.0	11.4
8	.7	.0	.2	3.4	2.6	3.0	6.1	4.7	5.2	11.5	9.6	10.4
9	.2	.0	.0	4.0	2.8	3.4	6.3	5.6	6.0	10.7	9.1	10.0
10	.3	.0	.0	4.8	3.6	4.2	6.3	5.6	6.0	10.7	9.3	10.1
11	.5	.0	.1	5.6	3.9	4.8	6.5	5.0	5.8	10.6	9.2	9.8
12	.6	.0	.2	5.6	4.4	5.2	5.7	4.3	4.9	10.6	9.2	9.8
13	.9	.0	.4	6.0	4.5	5.4	5.7	4.6	5.0	10.6	9.0	9.7
14	1.0	.0	.3	5.3	3.4	4.4	7.0	5.4	5.9	10.2	8.9	9.5
15	1.1	.2	.6	5.2	4.2	4.6	8.0	7.0	7.2	10.4	8.7	9.4
16	1.9	.3	.8	6.6	5.2	5.8	9.4	8.0	8.4	10.6	9.3	9.9
17	2.4	.7	1.3	7.0	6.1	6.7	10.7	9.2	9.7	10.9	9.3	10.1
18	2.5	1.8	2.2	7.0	5.7	6.2	10.8	10.0	10.4	10.8	9.6	10.0
19	2.3	.8	1.5	7.4	5.5	6.2	11.1	9.6	10.3	10.8	9.4	10.0
20	2.2	.7	1.3	8.0	6.1	7.0	11.1	9.4	10.0	10.6	9.4	9.9
21	1.0	.2	.6	8.3	6.4	7.3	10.1	7.8	8.8	10.3	9.3	9.8
22	1.2	.0	.4	8.4	6.9	7.6	7.8	6.6	7.2	10.3	9.0	9.5
23	.6	.0	.2	8.4	6.9	7.6	7.7	6.7	7.1	9.8	8.1	8.9
24	.9	.1	.3	8.3	5.2	6.7	7.4	7.1	7.3	9.8	9.0	9.4
25	1.2	.1	.7	5.7	3.6	4.6	8.4	6.1	7.1	9.5	8.6	9.1
26	1.4	.2	.8	6.3	4.4	5.3	9.2	7.6	8.4	9.2	8.1	8.7
27	1.9	1.0	1.5	7.3	5.5	6.3	10.0	8.3	9.1	9.4	7.8	8.5
28	2.0	.7	1.5	7.2	5.5	6.5	10.8	9.8	10.3	10.0	8.6	9.1
29	---	---	---	7.4	6.2	6.8	10.2	8.4	9.4	10.0	9.4	9.7
30	---	---	---	7.4	5.7	6.6	8.4	6.6	7.2	10.3	8.7	9.4
31	---	---	---	7.4	5.8	6.6	---	---	---	12.1	9.0	10.5
MONTH	2.5	.0	.7	8.4	.1	4.8	11.1	3.8	7.3	12.1	6.1	9.5

		JUNE			JULY			AUGUST			SEPTEMBER	
1	12.2	11.1	11.6	15.0	13.0	13.9	18.3	17.1	17.6	18.3	16.9	17.3
2	12.1	10.6	11.2	14.7	12.3	13.5	18.4	17.1	17.8	18.8	17.8	18.2
3	11.8	10.2	10.9	15.0	12.6	13.7	18.2	17.4	17.8	19.0	18.2	18.5
4	12.4	10.7	11.5	15.0	13.1	14.1	18.2	17.2	17.6	19.0	17.7	18.3
5	12.4	11.1	11.8	15.0	13.5	13.9	17.2	16.0	16.7	17.9	16.8	17.3
6	12.2	10.8	11.5	---	---	---	16.3	15.0	15.9	17.9	15.5	16.5
7	11.7	10.5	11.1	---	---	---	15.2	13.6	14.4	15.7	14.5	15.1
8	11.1	9.9	10.4	14.5	13.5	13.8	16.7	14.7	15.4	16.1	14.6	15.2
9	11.1	9.6	10.3	15.0	13.4	14.0	16.9	16.0	16.5	16.2	15.5	15.9
10	11.5	10.1	10.7	15.2	13.9	14.5	17.0	16.1	16.4	16.5	15.2	15.6
11	12.0	10.2	11.0	15.3	14.6	14.9	16.1	14.1	14.8	17.1	16.3	16.7
12	11.9	10.4	11.1	15.0	14.0	14.4	14.4	13.3	13.8	17.5	16.4	16.9
13	12.5	11.0	11.7	16.0	14.2	15.0	14.9	13.7	14.2	17.6	15.7	16.5
14	12.3	10.9	11.6	16.3	14.9	15.6	14.9	14.0	14.4	16.3	15.4	16.0
15	12.3	10.9	11.6	17.1	15.4	16.2	15.9	14.4	14.9	16.5	14.9	15.7
16	12.1	11.0	11.6	17.2	15.8	16.6	16.4	15.5	15.8	15.3	14.6	15.0
17	12.4	11.0	11.6	17.6	15.6	16.4	17.0	16.0	16.5	15.1	14.1	14.7
18	13.1	11.2	12.0	17.6	16.0	16.6	17.0	16.2	16.4	15.4	14.7	15.1
19	13.7	11.9	12.6	16.6	15.3	15.8	16.6	15.8	16.2	15.6	14.6	15.2
20	13.5	12.0	12.8	17.6	15.9	16.5	16.6	15.2	15.9	15.6	15.1	15.3
21	13.9	12.4	13.0	18.0	16.0	16.9	16.4	15.4	15.9	15.6	14.0	14.7
22	14.3	12.4	13.3	18.5	16.7	17.6	16.7	15.2	15.9	14.0	13.1	13.4
23	14.4	12.8	13.6	19.0	17.5	18.2	17.1	16.0	16.5	13.6	12.8	13.2
24	14.4	13.0	13.7	19.0	17.6	18.3	17.7	15.8	16.7	13.5	12.6	13.0
25	14.3	12.4	13.4	19.1	17.4	18.2	17.9	16.8	17.3	14.1	12.9	13.3
26	14.2	12.4	13.3	18.7	17.7	18.2	17.9	16.4	17.2	14.2	13.5	13.9
27	14.6	12.4	13.3	18.6	17.6	18.1	17.9	15.7	16.5	14.7	13.6	14.0
28	14.8	13.2	13.9	18.0	17.0	17.5	17.9	17.1	17.6	14.8	13.3	14.0
29	---	---	---	17.9	17.3	17.5	18.2	17.2	17.7	13.9	12.4	13.1
30	---	---	---	18.3	17.5	17.9	18.2	17.2	17.6	13.4	12.3	12.9
31	---	---	---	18.3	17.4	17.8	18.2	16.9	17.4	---	---	---
MONTH	---	---	---	---	---	---	18.4	13.3	16.3	19.0	12.3	15.4

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 (34,190 acre-ft diverted during current year, provided by Colorado Division of Water Resources).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	44	e26	24	20	e16	36	43	354	644	66	51
2	41	39	e27	24	19	e16	34	40	375	572	62	54
3	58	45	e27	24	19	e16	33	39	346	443	62	64
4	57	46	e28	23	e17	e16	35	41	510	456	72	86
5	52	45	e30	e22	e16	e15	32	53	555	405	73	71
6	49	44	32	e22	e16	e16	31	66	486	319	87	64
7	46	38	32	e23	e15	e17	36	75	461	316	86	75
8	45	40	32	24	e15	e17	31	82	502	294	72	64
9	45	43	32	24	e16	e18	30	100	368	224	58	59
10	43	40	32	23	e16	e19	29	113	342	120	64	65
11	42	39	31	23	e17	e19	28	115	335	110	125	65
12	41	41	31	23	e16	e19	28	116	336	103	210	53
13	40	36	30	22	e15	e19	29	128	570	100	169	57
14	40	36	e26	22	e16	e18	30	150	780	96	149	49
15	39	37	e24	21	e17	e20	28	166	798	92	155	45
16	38	34	e27	e19	e16	e21	32	193	803	87	148	39
17	37	33	e24	e20	e16	e22	39	210	811	84	133	36
18	38	38	e20	e21	e17	e22	45	217	905	84	99	36
19	42	37	e22	22	e16	e23	47	231	1080	82	91	35
20	42	37	e24	22	e17	25	50	243	1140	79	71	35
21	39	36	e25	22	e16	31	55	241	1110	75	71	36
22	44	38	e25	21	e15	34	51	253	1030	72	70	39
23	43	38	26	21	e16	37	48	213	982	82	68	41
24	44	36	e25	20	e17	38	45	205	944	78	68	101
25	44	35	26	21	e18	34	42	191	855	71	65	77
26	43	31	26	21	e19	32	42	161	787	67	55	42
27	43	e28	26	20	e18	35	41	135	762	69	53	34
28	45	e26	25	20	e16	34	45	120	714	70	51	30
29	44	e28	25	20	---	36	46	135	695	70	50	31
30	44	e28	25	20	---	35	44	217	684	70	50	39
31	43	---	24	20	---	35	---	270	---	71	51	---
TOTAL	1354	1116	835	674	467	755	1142	4562	20420	5505	2704	1573
MEAN	43.7	37.2	26.9	21.7	16.7	24.4	38.1	147	681	178	87.2	52.4
MAX	58	46	32	24	20	38	55	270	1140	644	210	101
MIN	37	26	20	19	15	15	28	39	335	67	50	30
AC-FT	2690	2210	1660	1340	926	1500	2270	9050	40500	10920	5360	3120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1997, BY WATER YEAR (WY)

MEAN	29.9	22.1	17.7	15.4	14.6	15.9	30.8	147	409	194	63.7	39.3
MAX	53.3	43.3	31.0	24.4	20.6	24.4	53.8	512	939	872	145	83.7
(WY)	1987	1985	1985	1985	1985	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1980 - 1997	
ANNUAL TOTAL	35078		41107			
ANNUAL MEAN	95.8		113		[a]134	
HIGHEST ANNUAL MEAN					194	1984
LOWEST ANNUAL MEAN					35.7	1981
HIGHEST DAILY MEAN	890	Jun 17	1140	Jun 20	1930	Jun 8 1985
LOWEST DAILY MEAN	[e,b]13	Jan 27	[e,c]15	Feb 7	[d]8.0	Jan 11 1980
ANNUAL SEVEN-DAY MINIMUM	14	Jan 29	16	Feb 7	9.2	Mar 22 1981
INSTANTANEOUS PEAK FLOW			1360	Jun 20	[f]2350	Jun 8 1985
INSTANTANEOUS PEAK STAGE			[g]4.12	Jun 20	5.10	Jun 8 1985
ANNUAL RUNOFF (AC-FT)	69580		81540		[a]97080	
10 PERCENT EXCEEDS	284		317		185	
50 PERCENT EXCEEDS	37		41		28	
90 PERCENT EXCEEDS	16		19		13	

e-Estimated.
a-Includes diversions through Twin Lakes Tunnel.
b-Also occurred Feb 1, and 3-4.
c-Also occurred Feb 8, 13, 22, and Mar 5.
d-Also occurred Dec 31, 1994.
f-From rating curve extended above 910 ft^3/s.
g-Maximum gage height, 4.27 ft, Dec 20, backwater from ice.

09073300 ROARING FORK RIVER ABOVE DIFFICULT CREEK NEAR ASPEN, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1996 to September 1997.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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											
12...	1545	40	72	7.8	2.5	10.0	K1	<1	30	9.7	1.5
DEC											
18...	1430	23	74	7.9	0.5	--	<1	<1	--	--	--
MAR											
06...	1200	23	79	8.0	1.5	12.9	<1	<1	34	11	1.6
MAY											
22...	0945	252	37	7.2	3.5	10.9	K1	K2	16	5.0	0.9
AUG											
20...	1000	72	58	7.5	9.0	9.1	K7	K2	24	7.6	1.2
SEP											
08...	1210	66	67	7.5	11.0	8.6	K1	K2	--	--	--

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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)
NOV											
12...	1.9	0.1	0.4	26	8.7	0.3	0.4	7.2	46	0.06	5.03
DEC											
18...	--	--	--	--	--	--	--	--	--	--	--
MAR											
06...	2.1	0.2	0.4	31	8.7	0.2	0.6	7.6	51	0.07	3.20
MAY											
22...	1.1	0.1	0.3	16	2.0	0.2	0.2	5.7	25	0.03	17.2
AUG											
20...	1.3	0.1	0.3	21	5.7	<0.1	0.3	5.5	--	--	--
SEP											
08...	--	--	--	--	--	--	--	--	--	--	--

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								
12...	0.01	0.14	0.020	<0.2	<0.2	<0.01	<0.01	<0.01
DEC								
18...	0.01	0.13	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
MAR								
06...	<0.01	0.15	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
MAY								
22...	<0.01	<0.05	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
AUG								
20...	<0.01	0.12	0.024	<0.2	<0.2	<0.01	<0.01	<0.01
SEP								
08...	<0.01	0.08	<0.015	<0.2	<0.2	<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 1996 TO SEPTEMBER 1997

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										
12...	<1	1	70	<1	<10	3.0	<0.1	<1	<0.2	<3
MAR										
06...	<1	1	60	<1	<10	4.0	<0.1	<1	<0.2	<3
MAY										
22...	<1	1	150	<1	<10	2.5	<0.1	<1	<0.2	<3
AUG										
20...	<1	2	110	<1	<10	2.1	<0.1	<1	<0.2	<3

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
JAN					JUN				
08...	1015	27	79	0.0	24...	0930	961	31	--
FEB					AUG				
27...	1215	20	81	1.0	01...	0805	65	48	9.5
MAY					SEP				
13...	1220	113	47	5.5	17...	0950	37	73	7.5

09073400 ROARING FORK RIVER NEAR ASPEN, CO

LOCATION.--Lat 39°10'48", long 106°48'05", 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 good 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, (34,190 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	56	e47	46	44	40	52	77	540	751	109	62
2	66	53	e49	46	44	e39	50	75	575	697	99	64
3	77	56	e46	47	44	e40	50	71	534	641	96	69
4	76	56	48	46	43	40	51	72	623	628	107	85
5	67	55	50	e43	43	e38	50	89	711	577	109	79
6	64	55	50	e45	43	e39	49	116	681	476	127	68
7	63	52	50	e43	42	40	49	133	638	472	141	85
8	61	51	50	46	e39	40	49	141	729	448	110	69
9	60	54	49	46	e40	40	49	167	619	378	90	62
10	59	53	49	46	e42	40	49	165	586	255	105	66
11	58	52	48	46	43	40	48	175	593	244	138	67
12	58	52	48	46	42	41	45	176	594	234	214	58
13	57	51	48	46	42	42	47	198	701	224	186	58
14	57	51	48	45	e38	41	46	223	877	205	169	52
15	56	51	e43	45	e40	41	50	236	945	185	170	48
16	56	51	e46	e41	e39	42	53	264	928	177	155	48
17	55	50	47	e42	41	43	61	283	935	175	147	43
18	56	52	e37	46	41	43	71	302	1060	170	120	44
19	58	52	e41	45	41	43	72	316	1340	158	111	43
20	58	52	e48	45	41	46	79	347	1600	155	93	43
21	55	51	e49	45	41	49	90	348	1570	149	88	45
22	54	52	49	45	e39	50	84	371	1430	140	88	54
23	56	52	48	45	e40	51	78	322	1370	161	84	55
24	57	51	47	44	41	52	74	307	1240	166	82	87
25	57	49	48	e43	e38	50	69	293	1090	139	82	91
26	56	48	48	45	e39	49	72	255	960	126	74	56
27	55	49	48	44	e40	51	70	229	915	132	68	48
28	57	47	48	e41	e40	50	78	207	856	130	64	43
29	57	50	47	44	---	52	81	217	790	126	62	42
30	56	50	47	e42	---	50	77	311	776	123	59	47
31	56	---	46	45	---	51	---	402	---	130	61	---
TOTAL	1846	1554	1467	1384	1150	1373	1843	6888	26806	8772	3408	1781
MEAN	59.5	51.8	47.3	44.6	41.1	44.3	61.4	222	894	283	110	59.4
MAX	77	56	50	47	44	52	90	402	1600	751	214	91
MIN	54	47	37	41	38	38	45	71	534	123	59	42
AC-FT	3660	3080	2910	2750	2280	2720	3660	13660	53170	17400	6760	3530

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1997, BY WATER YEAR (WY)

MEAN	43.8	35.0	30.2	27.1	25.8	27.5	48.8	199	436	210	70.6	50.7
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1965 - 1997	
ANNUAL TOTAL	48850		58272			
ANNUAL MEAN	133		160		[a]154	
HIGHEST ANNUAL MEAN					229	1984
LOWEST ANNUAL MEAN					42.1	1977
HIGHEST DAILY MEAN	1130	Jun 15	1600	Jun 20	1900	Jul 10 1995
LOWEST DAILY MEAN	[e]25	Jan 27	[e]37	Dec 18	12	Nov 28 1976
ANNUAL SEVEN-DAY MINIMUM	27	Jan 23	39	Feb 25	15	Feb 1 1977
INSTANTANEOUS PEAK FLOW			1880	Jun 21	[b]2230	Jul 11 1995
INSTANTANEOUS PEAK STAGE			5.24	Jun 21	5.97	Jul 11 1995
ANNUAL RUNOFF (AC-FT)	96890		115600		[a]111600	
10 PERCENT EXCEEDS	396		474		255	
50 PERCENT EXCEEDS	57		56		41	
90 PERCENT EXCEEDS	30		42		22	

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 fair except for estimated daily discharges, which are poor. Transmountain diversion upstream from station to Charles H. Boustead tunnel by feeder conduit. Several small diversions upstream from station for irrigation of hay meadows upstream and downstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	17	e9.0	e7.1	e6.8	e6.5	18	e24	446	221	43	30
2	24	18	e9.6	e9.0	e6.8	e6.2	17	e20	427	130	44	26
3	45	18	e7.8	e9.4	e6.7	e6.4	17	e19	305	67	42	23
4	41	17	e8.2	e9.2	e6.6	e6.2	17	e21	381	60	41	23
5	32	17	e7.9	e8.1	e6.7	e5.8	17	e45	377	58	44	25
6	28	17	e9.2	e8.2	e6.6	e6.2	18	e60	330	54	68	25
7	24	e15	e8.8	e6.0	e6.4	e6.4	16	e73	354	52	68	34
8	21	e15	e9.0	e7.7	e5.4	e6.5	15	e77	311	51	45	25
9	21	e16	e8.8	e7.6	e5.8	e6.6	15	e83	185	49	40	23
10	20	16	e9.2	e7.6	e6.2	e6.9	14	e88	158	49	59	22
11	19	17	e9.2	e7.9	e6.6	e7.4	14	e96	153	48	61	24
12	19	17	e8.7	e7.9	e6.5	e8.0	14	e100	150	47	52	29
13	18	15	e8.6	e7.8	e6.4	e8.8	14	e115	137	47	53	24
14	17	15	e8.4	e7.8	e6.0	e8.7	14	e125	144	46	59	22
15	17	15	e6.0	e7.2	e6.7	e8.6	14	e140	129	47	46	23
16	18	e15	e7.3	e5.6	e6.4	e9.7	16	e150	120	46	39	37
17	16	e13	e5.6	e5.5	e6.4	8.7	21	e159	117	45	35	28
18	17	e14	e4.4	e6.4	e6.5	7.8	23	e161	130	46	41	26
19	e18	14	e5.8	e6.4	e6.5	9.0	23	e165	176	47	36	24
20	e19	e14	e6.5	e6.5	e6.6	12	24	e168	218	46	33	23
21	e18	e14	e7.2	e7.0	e6.4	16	23	e163	169	44	31	22
22	e17	16	e7.1	e7.0	e5.8	17	26	165	142	45	29	34
23	e18	17	e7.1	e7.0	e6.5	20	24	146	131	60	28	37
24	e17	15	e7.0	e6.6	e6.7	19	24	141	105	56	27	28
25	19	e13	e6.9	e6.6	e6.2	19	21	133	84	46	29	24
26	18	e12	e7.4	e7.2	e6.4	17	22	116	77	44	45	21
27	17	e11	e7.8	e7.0	e6.6	18	22	107	73	44	31	28
28	18	e10	e7.8	e6.5	e6.5	18	22	106	265	46	28	24
29	19	e11	e7.5	e7.0	---	18	26	127	268	45	25	21
30	20	e10	e7.2	e6.4	---	18	25	206	252	45	24	18
31	18	---	e7.2	e6.7	---	18	---	303	---	45	25	---
TOTAL	659	444	238.2	223.9	179.7	350.4	576	3602	6314	1776	1271	773
MEAN	21.3	14.8	7.68	7.22	6.42	11.3	19.2	116	210	57.3	41.0	25.8
MAX	45	18	9.6	9.4	6.8	20	26	303	446	221	68	37
MIN	16	10	4.4	5.5	5.4	5.8	14	19	73	44	24	18
AC-FT	1310	881	472	444	356	695	1140	7140	12520	3520	2520	1530

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1997, BY WATER YEAR (WY)

MEAN	16.0	10.8	7.25	6.13	5.68	6.62	19.6	121	217	81.8	32.4	19.4
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1980 - 1997	
ANNUAL TOTAL	29904.4		16407.2			
ANNUAL MEAN	81.7		45.0		[a]45.3	
HIGHEST ANNUAL MEAN					81.2	1996
LOWEST ANNUAL MEAN					27.2	1994
HIGHEST DAILY MEAN	627	Jun 6	446	Jun 1	786	Jun 6 1988
LOWEST DAILY MEAN	[e]4.4	Dec 18	[e]4.4	Dec 18	[b]1.8	Dec 20 1980
ANNUAL SEVEN-DAY MINIMUM	5.5	Mar 4	6.1	Dec 15	1.9	Dec 20 1980
INSTANTANEOUS PEAK FLOW			706	Jun 1	[c]1170	Jun 8 1985
INSTANTANEOUS PEAK STAGE			2.97	Jun 1	[d]2.33	Jun 8 1985
ANNUAL RUNOFF (AC-FT)	59320		32540		32840	
10 PERCENT EXCEEDS	341		130		120	
50 PERCENT EXCEEDS	17		19		13	
90 PERCENT EXCEEDS	6.6		6.5		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 NW1/4 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, 102,110 acre-ft, July 13, elevation, 7,765.74 ft; minimum contents, 59,200 acre-ft, May 4, elevation, 7,714.90 ft.

MONTHEND ELEVATION IN FEET ABOVE SEA LEVEL AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	7,750.68	87,830	-
Oct. 31	7,741.87	80,100	-7,730
Nov. 30	7,739.64	78,210	-1,890
Dec. 31	7,735.89	75,100	-3,110
CAL YR 1996	-	-	-1,460
Jan. 31	7,731.06	71,220	-3,880
Feb. 28	7,725.83	67,180	-4,040
Mar. 31	7,720.58	63,270	-3,910
Apr. 30	7,715.47	59,600	-3,670
May 31	7,737.17	76,160	+16,560
June 30	7,763.93	100,320	+24,160
July 31	7,764.56	100,940	+620
Aug. 31	7,761.43	97,880	-3,060
Sept. 30	7,758.80	95,350	-2,530
WTR YR 1997	-	-	+7,520

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., Eagle County, 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	234	124	117	118	130	159	149	243	557	377	240	200
2	233	123	117	118	130	158	147	243	690	375	240	200
3	234	124	117	123	130	158	146	245	809	296	240	200
4	233	124	115	128	130	158	145	244	569	256	240	200
5	232	124	116	128	130	158	145	245	576	254	240	200
6	232	123	115	128	130	157	149	244	572	253	240	199
7	232	123	117	127	130	156	149	246	569	253	241	199
8	234	122	122	127	130	155	149	300	573	253	240	199
9	233	121	122	126	131	155	170	336	571	253	240	199
10	236	121	121	126	131	155	193	342	569	252	240	199
11	239	82	121	127	132	155	216	349	626	250	226	199
12	238	53	121	126	132	154	243	354	669	250	201	199
13	238	66	121	126	132	153	243	380	676	250	201	199
14	238	121	122	128	131	152	243	417	682	249	201	199
15	238	122	121	127	132	152	242	422	673	247	201	160
16	237	121	121	128	132	153	242	428	668	247	200	121
17	237	121	121	128	132	153	242	438	662	247	200	121
18	236	121	119	128	132	151	242	444	569	247	200	121
19	237	121	119	128	131	151	242	450	427	247	200	121
20	237	120	119	129	130	152	243	455	423	247	200	121
21	237	119	119	129	132	151	243	452	424	246	200	121
22	237	119	119	128	132	152	243	458	418	246	200	120
23	237	120	119	128	132	151	245	458	415	247	200	119
24	237	120	119	128	132	151	246	460	411	247	200	119
25	237	120	120	128	132	153	245	458	407	246	200	119
26	237	118	121	129	132	158	245	446	391	245	200	150
27	237	119	121	130	140	152	243	445	387	241	200	196
28	237	117	120	130	158	149	243	506	385	240	200	195
29	199	117	120	130	---	150	243	526	382	241	200	195
30	159	117	120	130	---	150	243	528	379	241	200	195
31	123	---	120	130	---	149	---	540	---	240	200	---
TOTAL	7085	3463	3702	3944	3708	4761	6379	12102	16129	7983	6631	5085
MEAN	229	115	119	127	132	154	213	390	538	258	214	170
MAX	239	124	122	130	158	159	246	540	809	377	241	200
MIN	123	53	115	118	130	149	145	243	379	240	200	119
AC-FT	14050	6870	7340	7820	7350	9440	12650	24000	31990	15830	13150	10090

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1997, BY WATER YEAR (WY)

MEAN	147	127	138	134	137	146	165	283	380	276	159	141
MAX	366	185	224	228	250	280	370	669	950	812	242	240
(WY)	1970	1985	1996	1996	1996	1996	1971	1970	1984	1995	1995	1994
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1969 - 1997		
ANNUAL TOTAL	90072		80972				
ANNUAL MEAN	246		222		[a]186		
HIGHEST ANNUAL MEAN					288		1984
LOWEST ANNUAL MEAN					83.9		1977
HIGHEST DAILY MEAN	827	May 20	809	Jun 3	1390	Jun 25	1983
LOWEST DAILY MEAN	53	Nov 12	53	Nov 12	[b]28	Nov 14	1995
ANNUAL SEVEN-DAY MINIMUM	98	Nov 8	98	Nov 8	29	Mar 5	1981
INSTANTANEOUS PEAK FLOW			1000	Jun 3	[c]1400	Sep 16	1976
INSTANTANEOUS PEAK STAGE			3.43	Jun 3	[d]3.50	Sep 16	1976
ANNUAL RUNOFF (AC-FT)	178700		160600		135000		
10 PERCENT EXCEEDS	361		423		309		
50 PERCENT EXCEEDS	238		199		154		
90 PERCENT EXCEEDS	115		120		81		

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.

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	88	73	62	62	63	198	319	1820	1280	467	212
2	84	86	78	62	62	59	183	279	2130	1130	401	199
3	188	88	64	96	62	61	179	260	1980	1100	383	187
4	154	89	68	94	60	60	192	289	2100	1040	391	212
5	132	89	64	70	61	55	182	407	2100	989	466	186
6	125	90	76	72	62	59	169	559	2030	916	499	206
7	121	82	72	50	60	62	159	698	2010	869	486	202
8	112	82	74	67	50	63	155	730	2090	840	389	173
9	108	84	73	66	53	63	156	787	1710	816	351	160
10	101	83	76	66	56	67	148	859	1520	801	581	161
11	97	82	75	68	63	74	138	915	1500	777	582	172
12	93	83	72	69	62	87	131	949	1520	702	488	230
13	90	83	71	68	62	95	130	1010	1590	703	451	194
14	92	83	69	66	58	93	130	1130	1510	687	421	175
15	89	86	51	62	66	91	137	1270	1480	687	370	187
16	98	88	61	49	61	101	169	1390	1460	656	336	243
17	94	82	47	48	63	112	233	1400	1390	627	308	204
18	85	84	35	59	63	113	304	1430	1520	646	298	193
19	88	87	50	59	63	127	352	1500	1860	595	282	206
20	98	89	55	61	65	156	395	1570	2120	630	261	230
21	88	88	63	65	62	193	445	1460	1970	573	254	291
22	82	167	62	64	56	210	394	1480	1910	618	241	381
23	87	154	62	65	62	228	350	1260	1880	770	232	337
24	85	118	61	61	65	230	341	1220	1760	607	221	292
25	89	104	60	61	60	197	295	1130	1620	530	248	264
26	91	98	65	66	62	186	271	950	1510	483	297	266
27	88	90	68	64	64	193	266	786	1440	433	239	338
28	96	80	68	59	63	190	333	702	1470	452	217	281
29	104	90	65	64	---	205	365	712	1430	506	207	249
30	96	83	63	59	---	188	334	911	1350	493	199	225
31	95	---	63	62	---	189	---	1270	---	575	194	---
TOTAL	3134	2780	2004	2004	1708	3870	7234	29632	51780	22531	10760	6856
MEAN	101	92.7	64.6	64.6	61.0	125	241	956	1726	727	347	229
MAX	188	167	78	96	66	230	445	1570	2130	1280	582	381
MIN	82	80	35	48	50	55	130	260	1350	433	194	160
AC-FT	6220	5510	3970	3970	3390	7680	14350	58780	102700	44690	21340	13600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1997, BY WATER YEAR (WY)

MEAN	97.4	72.1	56.1	49.6	49.2	66.2	194	763	1303	645	204	127
MAX	220	152	95.9	85.3	89.9	184	464	1223	2019	1872	640	253
(WY)	1987	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1956 - 1997	
ANNUAL TOTAL	102500		144293			
ANNUAL MEAN	280		395		303	
HIGHEST ANNUAL MEAN					468	1957
LOWEST ANNUAL MEAN					107	1977
HIGHEST DAILY MEAN	1580	May 17	2130	Jun 2	3500	Jun 25 1983
LOWEST DAILY MEAN	35	Dec 18	35	Dec 18	[a]22	Dec 5 1955
ANNUAL SEVEN-DAY MINIMUM	43	Mar 2	52	Dec 15	27	Feb 11 1964
INSTANTANEOUS PEAK FLOW			2450	Jun 2	4180	Jun 25 1983
INSTANTANEOUS PEAK STAGE			4.57	Jun 2	6.12	Jun 25 1983
ANNUAL RUNOFF (AC-FT)	203300		286200		219400	
10 PERCENT EXCEEDS	1010		1370		964	
50 PERCENT EXCEEDS	103		169		95	
90 PERCENT EXCEEDS	53		62		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 September 1997.

WATER QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)
NOV										
12...	1145	80	548	8.1	4.5	11.0	K1	<1	240	80
DEC										
19...	0900	50	687	7.8	1.5	--	--	K1	--	--
MAR										
06...	1630	96	622	8.0	3.5	--	K1	<1	270	89
MAY										
22...	1400	1500	183	7.9	5.5	10.4	K10	K7	83	26
AUG										
20...	1300	264	317	7.8	13.0	8.8	K11	K1	130	44
SEP										
08...	1530	170	386	7.7	16.0	8.4	K10	K6	--	--

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)	ALKA-LINITY 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										
12...	9.5	21	0.6	1.7	125	150	8.0	0.3	9.1	355
DEC										
19...	--	--	--	--	--	--	--	--	--	--
MAR										
06...	11	25	0.7	1.9	148	170	9.1	0.3	9.0	405
MAY										
22...	4.1	4.0	0.2	0.6	70	22	0.8	0.1	5.2	106
AUG										
20...	5.9	8.6	0.3	0.9	87	65	2.6	0.2	6.1	186
SEP										
08...	--	--	--	--	99	--	--	--	--	--

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)
NOV										
12...	0.48	76.7	0.02	0.11	0.020	<0.2	<0.2	<0.01	<0.01	<0.01
DEC										
19...	--	--	<0.01	0.11	0.020	<0.2	<0.2	<0.01	<0.01	<0.01
MAR										
06...	0.55	105	<0.01	0.13	<0.015	<0.2	<0.2	0.01	<0.01	<0.01
MAY										
22...	0.14	429	<0.01	0.10	<0.015	<0.2	<0.2	0.02	<0.01	<0.01
AUG										
20...	0.25	133	<0.01	0.09	0.030	<0.2	<0.2	<0.01	<0.01	<0.01
SEP										
08...	--	--	<0.01	0.08	0.040	<0.2	<0.2	0.03	0.01	<0.01

K-Based on non-ideal colony count.

09081600 CRYSTAL RIVER ABOVE AVALANCHE CREEK, NEAR REDSTONE, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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										
12...	<1	<1	70	<1	<10	9	<0.1	<1	<0.2	<3
MAR										
06...	<1	<1	220	<1	10	13	<0.1	<1	<0.2	<3
MAY										
22...	<1	<1	1900	<1	50	3	<0.1	<1	<0.2	<3
AUG										
20...	<1	<1	250	<1	10	6	<0.1	<1	<0.2	<3

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT				
01...	1150	86	535	10.5
JAN				
07...	1010	37	751	2.0
FEB				
26...	1130	63	784	4.5
APR				
09...	1510	156	484	5.0
MAY				
14...	1310	1070	215	7.5
JUN				
25...	1130	1510	157	--
JUL				
31...	1135	570	227	11.0
SEP				
17...	1730	201	366	14.5

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 poor,. Diversions upstream from station for irrigation of about 35,000 acres. Transmountain diversions to Arkansas River basin through Busk-Ivanhoe tunnel since 1925, Twin Lakes tunnel since 1935, and Charles H. Boustead tunnel since 1972. Natural flow of stream affected by storage in Ruedi Reservoir on Fryingpan River (station 09080190) since May 1968.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUE

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	768	792	579	504	503	518	932	1650	5850	4930	1870	1130
2	764	759	636	501	498	498	890	1540	7210	4350	1690	1100
3	916	767	579	546	515	529	848	1420	6850	4010	1600	1060
4	1060	778	593	579	488	524	900	1440	7190	3690	1630	1100
5	962	754	577	493	501	487	906	1750	7590	3540	1750	1150
6	924	759	641	534	502	495	838	2240	7420	3210	1830	1100
7	911	710	592	464	483	530	806	2700	7110	3080	2090	1200
8	895	692	595	560	444	536	804	2840	7640	2980	1730	1100
9	872	705	598	538	468	529	830	3030	6770	2830	1620	1030
10	850	701	622	546	492	536	879	3210	6050	2640	1900	1010
11	847	687	617	537	512	562	838	3360	6130	2630	2340	1010
12	850	637	610	547	502	595	850	3390	5960	2430	2090	1110
13	835	632	587	525	515	632	844	3410	6130	2410	2060	1070
14	839	645	594	510	470	630	854	3640	6100	2350	2090	1020
15	837	690	528	508	515	613	866	3820	6140	2300	1850	987
16	885	706	556	454	483	653	914	4160	6020	2240	1690	1090
17	920	666	557	473	507	694	1050	4330	5790	2130	1600	1020
18	852	674	494	548	511	684	1270	4590	5920	2190	1520	974
19	863	682	536	547	506	691	1420	4680	6490	2130	1480	995
20	927	684	e570	518	510	751	1570	4870	7530	2140	1400	1110
21	912	679	e580	531	501	842	1780	4700	7470	2060	1330	1280
22	868	738	584	504	472	897	1720	5110	7160	2000	1300	1510
23	878	850	571	504	488	948	1580	4640	7100	2480	1240	1470
24	891	745	534	498	520	999	1560	4360	6740	2340	1200	1300
25	927	686	525	487	474	888	1420	4190	6160	2090	1190	1260
26	933	666	558	528	488	847	1400	3790	5740	1920	1380	1180
27	883	658	555	510	512	867	1390	3260	5450	1810	1260	1410
28	897	592	549	471	512	870	1630	2970	5490	1820	1180	1310
29	975	628	516	504	---	943	1850	3010	5370	1960	1170	1200
30	838	648	514	477	---	866	1730	3490	5120	1910	1130	1140
31	809	---	509	503	---	871	---	4240	---	2070	1100	---
TOTAL	27388	21010	17656	15949	13892	21525	35169	105830	193690	80670	49310	34426
MEAN	883	700	570	514	496	694	1172	3414	6456	2602	1591	1148
MAX	1060	850	641	579	520	999	1850	5110	7640	4930	2340	1510
MIN	764	592	494	454	444	487	804	1420	5120	1810	1100	974
AC-FT	54320	41670	35020	31630	27550	42690	69760	209900	384200	160000	97810	68280

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1997, BY WATER YEAR (WY)

MEAN	728	672	576	510	483	540	832	2248	4218	2507	1007	741
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1972 - 1997	
ANNUAL TOTAL	519978		616515			
ANNUAL MEAN	1421		1689		[a]1257	
HIGHEST ANNUAL MEAN					2092	1984
LOWEST ANNUAL MEAN					485	1977
HIGHEST DAILY MEAN	6370	Jun 22	7640	Jun 8	[b]11800	Jul 12 1995
LOWEST DAILY MEAN	494	Dec 18	444	Feb 8	[c,d]248	Aug 11 1977
ANNUAL SEVEN-DAY MINIMUM	532	Dec 25	483	Feb 4	258	Aug 9 1977
INSTANTANEOUS PEAK FLOW			8170	Jun 8	[f]13000	Jul 13 1995
INSTANTANEOUS PEAK STAGE			6.72	Jun 8	[g]8.31	Jul 13 1995
ANNUAL RUNOFF (AC-FT)	1031000		1223000		910700	
10 PERCENT EXCEEDS	4000		4610		3050	
50 PERCENT EXCEEDS	799		911		674	
90 PERCENT EXCEEDS	608		507		436	

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, 145 ft^3/s, Jan 21, 1935, gage height, 0.65 ft.
d-Also occurred Aug 12, 1977.
f-Maximum discharge and stage 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 1996 TO SEPTEMBER 1997

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											
08...	0815	690	580	8.4	3.5	12.9	K6	K7	240	76	13
DEC											
19...	1200	492	639	8.3	0.0	12.9	--	K5	--	--	--
MAR											
07...	0930	540	556	8.4	3.0	12.4	16	<1	250	77	13
MAY											
23...	1045	4630	234	8.0	7.5	10.0	90	83	110	34	5.3
AUG											
20...	1530	1400	447	8.4	15.5	10.1	K9	<1	180	57	9.5
SEP											
10...	1100	1020	508	8.1	13.5	9.3	K35	K55	--	--	--

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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)
NOV											
08...	25	0.7	1.4	134	120	29	0.2	8.4	354	0.48	660
DEC											
19...	--	--	--	--	--	--	--	--	--	--	--
MAR											
07...	20	0.6	1.5	125	130	24	0.2	8.1	349	0.48	509
MAY											
23...	4.8	0.2	0.8	77	35	3.4	0.1	7.1	138	0.19	1720
AUG											
20...	16	0.5	1.2	114	78	19	0.2	8.1	258	0.35	974
SEP											
10...	--	--	--	124	--	--	--	--	--	--	--

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								
08...	0.04	0.16	0.030	<0.20	<0.2	<0.01	<0.01	<0.01
DEC								
19...	<0.01	0.29	<0.015	<0.20	<0.2	<0.01	<0.01	<0.01
MAR								
07...	0.01	0.13	<0.015	<0.20	<0.2	0.01	<0.01	<0.01
MAY								
23...	<0.01	0.13	<0.015	0.34	<0.2	0.07	<0.01	<0.01
AUG								
20...	0.01	0.13	0.015	<0.20	<0.2	<0.01	<0.01	<0.01
SEP								
10...	<0.01	0.19	<0.015	<0.20	<0.2	0.03	<0.01	<0.01

K-Based on non-ideal colony count.

09085000 ROARING FORK RIVER AT GLENWOOD SPRINGS, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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										
08...	<1	<1	30	<1	<10	3	<0.1	<1	<0.2	6
MAR										
07...	<1	<1	60	<1	10	7	<0.1	<1	<0.2	4
MAY										
23...	<1	<1	1700	<1	60	5	<0.1	<1	<0.2	<3
AUG										
20...	<1	<1	130	<1	<10	6	<0.1	<1	<0.2	<3

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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...	0817	761	563	9.5
JAN				
03...	0730	535	587	2.5
FEB				
26...	0940	478	595	0.0
APR				
09...	1310	820	504	6.5
MAY				
15...	0945	3880	248	7.0
28...	1315	2950	307	9.5
JUN				
25...	1330	6210	205	--
AUG				
05...	1320	1730	401	13.5
SEP				
18...	0805	1010	539	13.0

09085100 COLORADO RIVER BELOW GLENWOOD SPRINGS, CO

LOCATION.--Lat 39°33'18", long 107°20'13", in NW1/4NW1/4 sec.9, T.6 S., R.89 W., Garfield County, Hydrologic Unit 14010005, on left bank 0.6 mi downstream from Roaring Fork River and 1.0 mi northwest of Post Office in Glenwood Springs.

DRAINAGE AREA.--6,013 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.--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 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2330	1970	1750	1760	1690	1470	2970	4830	18300	13000	e4500	3110
2	2280	1900	1890	1730	1660	1490	2850	4530	21700	11400	e4300	3090
3	2390	2010	1620	1810	1730	1520	2730	4310	21900	10200	e4500	3040
4	2510	2090	1580	1990	1630	1510	2790	4320	22500	9320	e4800	3050
5	2430	2050	1600	1720	1680	1470	2920	4840	22900	8900	5020	3110
6	2390	2040	1800	1690	1680	1520	2790	5960	22800	8240	5220	3130
7	2350	1860	1760	1560	1620	1610	2660	7280	22400	7810	5790	3270
8	2300	1790	1740	1590	1510	1620	2630	8060	22700	7320	5060	3190
9	2220	1840	1780	1810	1470	1630	2650	8620	21700	6870	4680	3040
10	2250	1870	1880	1940	1470	1670	2720	9190	20000	6680	4880	2810
11	2240	1920	1890	1950	1560	1720	2630	9760	20600	e6200	5730	2590
12	2220	1800	1910	1900	1710	1830	2560	10000	20400	e6000	5830	2740
13	2220	1830	1830	1690	1710	1930	2490	10200	20100	e5900	5930	2550
14	2190	1840	1830	1620	1610	1900	2500	10700	19400	e5800	5800	2580
15	2180	1920	1650	1730	1690	1840	2510	11200	18900	e5750	5320	2550
16	2210	1970	1600	1690	1600	1980	2580	12100	17600	e5500	4770	2670
17	2220	1850	1430	1580	1650	2320	2790	13000	16900	e5200	4280	2710
18	2120	1770	1120	1590	1630	2420	3210	14100	17200	e5400	4030	2610
19	2130	1880	1120	1720	1650	2390	3610	14600	18400	e5000	3940	2650
20	2290	1900	1130	1780	1640	2640	3920	15000	20300	e5200	3880	3030
21	2300	2040	1520	1830	1580	2680	4380	15000	20200	e4800	4020	3620
22	2160	2080	1930	1810	1530	2860	4580	16000	19600	e4900	4160	3720
23	2160	2280	1930	1810	1560	3020	4270	16800	19400	e5200	3880	3610
24	2220	2180	1840	1800	1660	3230	4150	16400	18700	e5100	3780	3420
25	2270	2090	1640	1710	1560	3130	4040	15600	17800	e4500	3740	3310
26	2300	2020	1850	1870	1570	2940	3940	14300	16700	e4200	3850	3170
27	2240	1950	1920	1900	1540	2890	3940	12500	15300	e4000	3530	3400
28	2250	1810	1880	1660	1520	3030	4300	11000	14600	e4100	3360	3340
29	2290	1780	1820	1700	---	2940	4890	10800	14200	e4200	3290	3170
30	2150	1890	1760	1610	---	2940	5100	13900	13700	e4500	3200	3020
31	2100	---	1770	1670	---	2800	---	15100	---	e4700	3110	---
TOTAL	69910	58220	52770	54220	45110	68940	100100	340000	576900	195890	138180	91300
MEAN	2255	1941	1702	1749	1611	2224	3337	10970	19230	6319	4457	3043
MAX	2510	2280	1930	1990	1730	3230	5100	16800	22900	13000	5930	3720
MIN	2100	1770	1120	1560	1470	1470	2490	4310	13700	4000	3110	2550
AC-FT	138700	115500	104700	107500	89480	136700	198500	674400	1144000	388500	274100	181100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1997, BY WATER YEAR (WY)

MEAN	2093	1903	1606	1506	1493	1725	2763	7121	10710	5841	2910	2278
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1967 - 1997	
ANNUAL TOTAL	1537860		1791540			
ANNUAL MEAN	4202		4908		3501	
HIGHEST ANNUAL MEAN					6276	1984
LOWEST ANNUAL MEAN					1638	1977
HIGHEST DAILY MEAN	18200	May 20	22900	Jun 5	30200	May 25 1984
LOWEST DAILY MEAN	[a]1120	Dec 18	[a]1120	Dec 18	870	Feb 11 1981
ANNUAL SEVEN-DAY MINIMUM	1370	Dec 15	1370	Dec 15	978	Mar 10 1977
INSTANTANEOUS PEAK FLOW			[b]23400	Jun 5	31500	May 25 1984
INSTANTANEOUS PEAK STAGE			[b]10.42	Jun 5	12.49	May 25 1984
ANNUAL RUNOFF (AC-FT)	3050000		3554000		2536000	
10 PERCENT EXCEEDS	11000		14400		8190	
50 PERCENT EXCEEDS	2320		2640		2100	
90 PERCENT EXCEEDS	1800		1620		1330	

e-Estimated.
a-Also occurred Dec 19.
b-Also occurred Jun 6.

09086000 WEST ELK CREEK NEAR NEW CASTLE, CO

LOCATION.--Lat 39°39'59", long 107°37'35", Garfield County, Hydrologic Unit 14010005, on left bank 1.9 mi downstream from West Elk Reservoir and just inside White River National Forest boundary.

DRAINAGE AREA.--9.55 mi^2.

PERIOD OF RECORD.--1911, October 1990 to September 1997 (discontinued). Published as West Fork Elk Creek near New Castle, 1911.

REVISED RECORDS.--WDR CO-92-2: Drainage area.

GAGE.--Water-stage recorder with Parshall flume. Elevation of gage is 6,760 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	.80	e.56	e.46	e.60	e.74	e1.3	2.3	3.4	2.5	2.2	1.8
2	1.4	.78	e.55	e.47	e.59	e.73	e1.2	2.2	3.3	2.5	1.8	1.9
3	1.5	.85	e.54	e.46	e.58	e.74	e1.2	2.1	3.2	2.5	1.8	1.7
4	1.5	.89	e.56	e.42	e.60	e.75	e1.3	2.0	3.1	2.5	1.9	1.7
5	1.4	.84	e.46	e.38	e.62	e.70	e1.3	2.6	3.1	2.5	2.1	1.7
6	1.4	.81	e.47	e.40	e.58	e.70	e1.2	3.3	3.0	3.0	2.4	2.0
7	1.4	.90	e.45	e.35	e.54	e.74	e1.2	4.1	3.0	2.9	2.2	1.9
8	1.4	.79	e.45	e.44	e.52	e.79	1.3	4.8	3.1	2.9	2.1	2.0
9	1.4	.78	e.46	e.49	e.53	e.82	1.5	5.4	3.0	2.9	2.0	1.9
10	1.4	.78	e.45	e.49	e.56	e.86	1.5	5.8	3.0	2.8	2.3	1.6
11	1.4	.78	e.44	e.49	e.62	e.90	1.4	5.9	3.0	2.9	2.3	1.8
12	1.4	.78	e.40	e.49	e.68	e.97	1.3	6.1	2.9	2.8	2.3	1.8
13	1.2	e.78	e.38	e.48	e.72	e1.1	1.5	5.9	3.0	2.8	2.2	1.9
14	.90	e.76	e.37	e.50	e.70	e.97	1.4	5.8	2.9	2.8	2.1	1.9
15	.86	e.74	e.31	e.52	e.66	e.96	1.5	5.6	2.6	2.7	2.0	1.9
16	.85	e.73	e.33	e.50	e.70	e1.1	1.6	5.5	2.5	2.7	2.0	2.2
17	.85	e.72	e.27	e.47	e.76	e1.1	1.6	5.1	2.5	2.8	2.0	1.9
18	.85	e.72	e.23	e.50	e.82	e1.0	1.6	4.7	2.5	2.8	2.1	1.9
19	.85	e.70	e.28	e.54	e.80	e1.0	1.7	4.4	2.5	2.9	2.1	2.0
20	.83	e.69	e.34	e.52	e.78	e1.1	1.9	4.1	2.4	2.8	2.0	2.5
21	.79	e.70	e.40	e.55	e.77	e1.2	2.0	4.2	2.4	2.7	2.0	2.9
22	.77	e.71	e.46	e.53	e.76	e1.3	1.9	4.1	2.4	2.6	2.0	2.4
23	.77	e.71	e.48	e.52	e.79	e1.3	1.9	3.7	2.4	2.6	1.9	2.2
24	.75	e.72	e.44	e.56	e.83	e1.4	2.0	3.8	2.4	2.6	1.9	2.1
25	.79	e.73	e.46	e.52	e.77	e1.3	2.0	4.0	2.4	2.7	1.9	2.0
26	.77	e.70	e.47	e.60	e.78	e1.3	2.0	4.3	2.4	2.7	2.0	2.1
27	.77	e.67	e.47	e.59	e.79	e1.2	2.1	4.4	2.4	2.5	2.0	2.1
28	.86	e.66	e.47	e.58	e.76	e1.3	2.5	4.2	2.3	2.5	1.9	2.0
29	.83	e.60	e.45	e.58	---	e1.4	2.7	3.8	2.3	e2.7	1.9	1.9
30	.78	e.54	e.45	e.59	---	e1.3	2.3	3.6	2.4	e2.6	1.9	1.9
31	.83	---	e.45	e.59	---	e1.3	---	3.5	---	2.9	1.8	---
TOTAL	33.00	22.36	13.30	15.58	19.21	32.07	49.9	131.3	81.8	84.1	63.1	59.6
MEAN	1.06	.75	.43	.50	.69	1.03	1.66	4.24	2.73	2.71	2.04	1.99
MAX	1.5	.90	.56	.60	.83	1.4	2.7	6.1	3.4	3.0	2.4	2.9
MIN	.75	.54	.23	.35	.52	.70	1.2	2.0	2.3	2.5	1.8	1.6
AC-FT	65	44	26	31	38	64	99	260	162	167	125	118

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1997, BY WATER YEAR (WY)

MEAN	.80	.55	.39	.37	.43	.62	1.09	2.66	2.42	1.72	1.37	1.25
MAX	1.72	1.37	1.03	.85	.81	1.11	1.89	5.76	5.38	3.53	2.74	2.24
(WY)	1994	1994	1994	1994	1994	1996	1996	1993	1993	1993	1995	1995
MIN	.32	.22	.20	.16	.17	.18	.54	.66	.47	.20	.32	.055
(WY)	1992	1992	1991	1995	1991	1991	1995	1992	1991	1994	1994	1994

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1991 - 1997	
ANNUAL TOTAL	513.80		605.32			
ANNUAL MEAN	1.40		1.66		1.14	
HIGHEST ANNUAL MEAN					1.81	1993
LOWEST ANNUAL MEAN					.38	1991
HIGHEST DAILY MEAN	4.8	May 9	6.1	May 12	9.6	May 22 1993
LOWEST DAILY MEAN	e.23	Dec 18	e.23	Dec 18	a.00	Jul 10 1994
ANNUAL SEVEN-DAY MINIMUM	.30	Dec 14	.30	Dec 14	.00	Jul 10 1994
INSTANTANEOUS PEAK FLOW			6.7	May 12	11	May 21 1993
INSTANTANEOUS PEAK STAGE			.86	May 12	1.35	May 21 1993
ANNUAL RUNOFF (AC-FT)	1020		1200		828	
10 PERCENT EXCEEDS	2.7		3.0		2.8	
50 PERCENT EXCEEDS	1.3		1.4		.65	
90 PERCENT EXCEEDS	.46		.48		.20	

e-Estimated.
a-No flow many days, Jul to Sep, 1994.

09086470 MAIN ELK CREEK NEAR NEW CASTLE, CO

LOCATION.--Lat 39°40'41", long 107°34'21", Garfield County, Hydrologic Unit 14010005, on right bank about 500 ft upstream from bridge on county road 243 and 9.5 mi northeast of New Castle.

DRAINAGE AREA.--91.0 mi^2.

PERIOD OF RECORD.--October 1990 to September 1997 (discontinued).

GAGE.--Water-stage recorder with satellite telemetry, and crest-stage gage. Elevation of gage is 6,120 ft above sea level, from topographic map.

REMARKS.--Records good except for 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 19956TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	14	13	12	12	10	22	80	1090	141	40	26
2	15	14	14	12	12	e10	21	71	1170	129	40	26
3	16	15	e12	14	12	10	21	65	1110	119	37	25
4	15	15	e13	14	12	10	23	65	1080	107	37	25
5	15	15	e12	12	12	e9.0	23	89	1070	96	37	25
6	15	14	14	13	12	e9.4	21	141	1000	91	41	26
7	15	13	14	e11	10	9.5	21	210	894	84	40	26
8	15	14	14	e13	e9.0	9.6	20	286	856	79	37	25
9	15	14	13	13	e10	9.7	21	332	753	75	36	24
10	15	14	14	14	e11	10	21	380	712	69	38	25
11	15	13	14	13	e11	10	19	425	722	65	38	25
12	15	13	14	13	e11	11	17	481	661	57	38	24
13	15	13	14	13	11	12	17	509	613	54	38	23
14	15	12	14	12	e10	11	17	547	547	49	37	23
15	15	14	11	e11	e11	11	17	603	499	46	35	23
16	15	13	13	e10	11	11	17	691	454	46	34	25
17	15	13	e10	e9.4	11	12	20	695	426	46	35	23
18	14	13	e8.0	e11	12	12	25	733	426	47	33	23
19	15	13	e10	e11	11	12	34	808	436	48	32	25
20	15	14	e11	e11	12	14	51	852	448	44	32	36
21	13	14	13	12	10	15	60	917	403	41	32	89
22	14	19	12	11	e9.6	17	59	992	369	39	31	96
23	14	20	12	12	e11	19	56	951	332	39	30	87
24	14	17	11	11	12	21	54	980	288	39	30	74
25	15	16	11	11	11	21	49	882	246	40	29	62
26	15	16	11	12	11	21	48	730	216	41	29	61
27	14	13	12	12	11	22	53	600	190	42	29	66
28	15	13	12	11	10	21	71	555	177	42	28	65
29	16	16	13	12	---	22	92	582	155	44	27	61
30	15	14	12	12	---	21	86	682	146	42	27	56
31	15	---	12	12	---	21	---	856	---	48	26	---
TOTAL	459	431	383.0	370.4	308.6	434.2	1076	16790	17489	1949	1053	1220
MEAN	14.8	14.4	12.4	11.9	11.0	14.0	35.9	542	583	62.9	34.0	40.7
MAX	16	20	14	14	12	22	92	992	1170	141	41	96
MIN	13	12	8.0	9.4	9.0	9.0	17	65	146	39	26	23
AC-FT	910	855	760	735	612	861	2130	33300	34690	3870	2090	2420

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1997, BY WATER YEAR (WY)

MEAN	14.2	12.3	10.5	9.44	9.34	10.7	30.7	369	371	78.2	26.7	20.5
MAX	19.0	15.2	12.4	11.9	11.0	14.0	55.1	570	688	209	44.1	40.7
(WY)	1996	1996	1997	1997	1997	1997	1992	1993	1995	1995	1995	1997
MIN	11.2	10.0	8.52	7.05	6.76	6.61	14.4	168	97.6	26.2	16.4	15.1
(WY)	1993	1993	1991	1991	1991	1991	1991	1995	1992	1994	1994	1994

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1991 - 1997	
ANNUAL TOTAL	25541.9		41963.2			
ANNUAL MEAN	69.8		115		80.4	
HIGHEST ANNUAL MEAN					121	1993
LOWEST ANNUAL MEAN					41.9	1994
HIGHEST DAILY MEAN	847	May 17	1170	Jun 2	1170	Jun 2 1997
LOWEST DAILY MEAN	e8.0	Dec 18	e8.0	Dec 18	5.8	Jan 23 1991
ANNUAL SEVEN-DAY MINIMUM	9.3	Feb 9	9.6	Mar 3	6.2	Jan 22 1991
INSTANTANEOUS PEAK FLOW			1340	Jun 2	1340	Jun 2 1997
INSTANTANEOUS PEAK STAGE			7.28	Jun 2	a7.28	Jun 2 1997
ANNUAL RUNOFF (AC-FT)	50660		83230		58220	
10 PERCENT EXCEEDS	255		450		268	
50 PERCENT EXCEEDS	15		21		15	
90 PERCENT EXCEEDS	10		11		9.0	

e-Estimated.
a-Also occurred Jun 16, 1995.

09086970 EAST ELK CREEK ABOVE BOILER CREEK, NEAR NEW CASTLE, CO

LOCATION.--Lat 39°40'05", long 107°31'28", Garfield County, Hydrologic Unit 14010005, on left bank 45 ft downstream from Forest Service footbridge and 6 mi northeast of New Castle.

DRAINAGE AREA.--23.4 mi^2.

PERIOD OF RECORD.--October 1990 to September 1997 (discontinued).

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,800 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	6.9	6.2	5.2	5.6	4.6	14	23	524	119	25	14
2	7.1	6.9	6.5	5.2	5.5	4.6	14	20	538	104	23	14
3	10	7.7	6.1	6.8	5.3	4.4	14	17	432	95	22	14
4	8.4	8.0	6.5	5.8	5.3	4.1	16	17	470	86	23	14
5	7.7	7.8	6.8	5.7	5.4	4.0	15	26	485	79	24	14
6	7.5	6.9	7.0	5.8	5.3	4.1	14	49	529	74	23	15
7	7.3	6.1	6.6	5.5	5.2	4.1	13	87	480	69	21	14
8	7.1	6.8	6.3	5.6	5.2	4.2	12	119	444	65	20	13
9	6.9	7.1	6.0	5.6	5.2	4.2	12	134	391	61	19	13
10	6.7	6.8	6.1	5.7	5.2	4.4	10	149	425	58	23	13
11	6.6	6.6	6.1	6.0	5.2	4.8	9.4	162	418	55	23	13
12	6.6	6.6	6.2	5.8	5.2	5.5	8.7	174	378	51	22	13
13	7.0	6.7	6.5	5.6	5.2	6.1	7.9	181	394	49	22	12
14	7.7	6.7	6.1	5.6	5.1	6.0	7.8	183	331	45	21	12
15	7.6	7.0	5.0	5.6	4.9	6.1	7.8	194	309	42	20	12
16	7.9	6.5	6.5	5.2	4.9	6.5	8.4	231	291	41	19	15
17	7.5	6.4	5.7	5.2	5.2	6.7	11	235	282	38	21	12
18	7.3	7.4	5.3	5.2	5.2	6.7	16	257	292	39	20	12
19	7.9	6.9	5.2	5.4	5.0	7.6	23	278	352	38	19	15
20	7.8	7.5	5.3	5.6	5.1	9.9	30	300	384	35	18	31
21	5.6	7.3	5.6	5.5	4.8	13	31	331	338	33	18	65
22	7.1	12	5.6	5.4	4.8	15	28	325	311	31	18	61
23	7.4	11	5.6	5.6	4.8	18	25	325	270	31	17	53
24	6.5	8.4	5.6	5.4	4.8	20	23	347	245	30	17	44
25	6.9	8.2	5.6	5.3	4.7	17	20	296	232	27	16	39
26	6.9	8.2	5.6	5.8	4.7	16	19	233	210	26	17	47
27	6.8	5.8	5.6	5.6	4.8	17	20	181	190	25	17	57
28	7.5	7.3	5.4	5.3	4.8	17	27	157	174	25	16	49
29	6.9	7.6	5.5	5.5	---	16	30	185	158	28	16	44
30	8.1	6.4	5.6	5.3	---	15	26	247	137	26	15	39
31	7.2	---	5.3	5.4	---	15	---	352	---	30	15	---
TOTAL	226.5	221.5	183.0	172.2	142.4	287.6	513.0	5815	10414	1555	610	783
MEAN	7.31	7.38	5.90	5.55	5.09	9.28	17.1	188	347	50.2	19.7	26.1
MAX	10	12	7.0	6.8	5.6	20	31	352	538	119	25	65
MIN	5.6	5.8	5.0	5.2	4.7	4.0	7.8	17	137	25	15	12
AC-FT	449	439	363	342	282	570	1020	11530	20660	3080	1210	1550

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1997, BY WATER YEAR (WY)

MEAN	7.62	6.25	5.16	4.77	4.69	6.52	15.2	134	223	62.1	15.9	12.4
MAX	9.46	7.72	5.90	5.55	5.21	9.28	22.6	188	354	207	22.8	26.1
(WY)	1994	1994	1997	1997	1996	1997	1996	1997	1993	1995	1995	1997
MIN	5.89	5.26	4.59	4.42	4.11	4.58	9.62	42.6	66.2	17.2	9.58	8.66
(WY)	1991	1991	1995	1991	1991	1991	1991	1995	1992	1994	1992	1996

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1991 - 1997	
ANNUAL TOTAL	13305.2		20923.2			
ANNUAL MEAN	36.4		57.3		41.5	
HIGHEST ANNUAL MEAN					57.3	1997
LOWEST ANNUAL MEAN					23.6	1994
HIGHEST DAILY MEAN	446	May 17	538	Jun 2	624	Jun 15 1995
LOWEST DAILY MEAN	[a]4.4	Jan 2	4.0	Mar 5	2.7	Jan 12 1993
ANNUAL SEVEN-DAY MINIMUM	4.4	Jan 6	4.2	Mar 3	4.0	Feb 19 1991
INSTANTANEOUS PEAK FLOW			763	Jun 1	834	Jun 15 1995
INSTANTANEOUS PEAK STAGE			5.18	Jun 1	[b]5.74	Jun 15 1995
ANNUAL RUNOFF (AC-FT)	26390		41500		30070	
10 PERCENT EXCEEDS	131		232		142	
50 PERCENT EXCEEDS	8.3		12		8.6	
90 PERCENT EXCEEDS	4.8		5.2		4.6	

a-Also occurred Jan 3 and Jan 6-15.
b-Maximum gage height, 5.84 ft, Jun 15, 1993.

09089500 WEST DIVIDE CREEK NEAR RAVEN, CO

LOCATION.--Lat 39°19'52", long 107°34'46", in NE1/4SW1/4 sec.29, T.8 S., R.91 W., Mesa County, Hydrologic Unit 14010005, on left bank 10 ft downstream from private road bridge, 0.8 mi upstream from Brook Creek, 8 mi south of Raven, and 16 mi south of Silt.

DRAINAGE AREA.--64.6 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 good 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	3.0	e4.6	e3.5	e4.2	e4.8	28	225	255	62	22	5.0
2	1.6	3.3	e5.2	e3.5	e4.2	e4.6	27	190	233	58	19	4.7
3	2.0	4.1	e4.8	e4.7	e4.3	e4.6	33	169	207	53	13	4.2
4	2.5	4.3	e5.0	e4.5	e4.1	e4.5	40	214	205	49	15	6.0
5	2.1	4.4	e4.7	e3.2	e4.1	e4.4	31	318	208	44	17	7.3
6	1.9	4.0	e5.2	e3.3	e4.2	e6.2	28	429	186	40	26	6.2
7	1.7	e3.7	e4.9	e2.7	e3.9	e6.6	26	496	171	37	19	8.3
8	1.6	e3.7	e4.5	e3.6	e3.4	e6.9	26	482	195	36	13	6.8
9	1.6	e5.5	e4.1	e3.5	e3.6	e7.2	27	496	199	34	11	5.2
10	1.6	4.8	e4.5	e3.5	e3.9	e7.0	26	497	186	31	19	4.3
11	1.6	4.5	4.7	e3.7	e4.8	e8.2	23	470	183	29	24	4.5
12	1.6	5.9	4.8	e3.8	e4.7	e15	27	467	159	27	22	5.6
13	1.6	4.3	4.7	e3.7	e4.7	e16	25	454	160	24	33	6.8
14	1.7	3.6	4.2	e3.7	e4.6	e15	25	421	142	21	25	5.9
15	1.8	3.4	e3.8	e3.4	e4.4	e14	26	406	126	19	19	5.3
16	2.1	4.6	e4.2	e3.0	e4.9	e21	41	450	111	17	17	8.9
17	2.3	e4.3	e3.3	e2.9	e4.7	e23	73	466	102	29	15	8.1
18	1.9	e7.0	e2.6	e3.6	e4.8	e23	106	546	98	16	14	6.9
19	2.0	5.8	e3.5	e3.6	e4.7	e22	128	502	119	19	12	6.4
20	2.8	6.3	e3.7	e3.7	e4.7	e22	149	433	114	16	12	12
21	2.4	8.1	e3.6	e4.0	e4.8	e28	164	385	106	13	11	33
22	2.4	8.0	e3.7	e3.9	e4.6	32	130	437	97	12	9.3	33
23	3.3	13	e3.6	e4.0	e4.3	33	115	404	88	30	8.1	22
24	2.8	9.5	e3.7	e3.9	e4.7	34	107	370	83	20	9.2	16
25	2.6	8.6	e3.6	s4.0	e4.9	34	94	315	76	14	7.9	13
26	2.6	6.8	e3.7	e4.2	e4.6	33	107	257	69	12	10	12
27	3.6	5.7	e3.8	e4.1	e4.7	29	137	218	66	11	13	18
28	3.3	e4.8	e3.7	e4.0	e4.8	26	202	197	64	12	10	14
29	4.0	5.8	e3.6	e4.3	---	30	256	190	59	16	8.3	11
30	4.3	5.2	e3.5	e4.0	---	25	230	202	53	17	5.8	9.7
31	3.9	---	e3.5	e4.1	---	27	---	223	---	30	5.5	---
TOTAL	72.8	166.0	127.0	115.6	124.3	567.0	2457	11329	4120	848	465.1	310.1
MEAN	2.35	5.53	4.10	3.73	4.44	18.3	81.9	365	137	27.4	15.0	10.3
MAX	4.3	13	5.2	4.7	4.9	34	256	546	255	62	33	33
MIN	1.6	3.0	2.6	2.7	3.4	4.4	23	169	53	11	5.5	4.2
AC-FT	144	329	252	229	247	1120	4870	22470	8170	1680	923	615

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1997, BY WATER YEAR (WY)

MEAN	3.17	3.22	2.70	2.49	2.59	6.53	48.6	204	130	26.9	4.51	2.55
MAX	15.3	13.1	9.05	8.07	7.76	29.3	146	491	389	84.9	24.8	10.4
(WY)	1985	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1956 - 1997	
ANNUAL TOTAL	14429.18		20701.9			
ANNUAL MEAN	39.4		56.7		36.5	
HIGHEST ANNUAL MEAN					76.2	1984
LOWEST ANNUAL MEAN					3.38	1977
HIGHEST DAILY MEAN	409	May 13	546	May 18	932	May 14 1984
LOWEST DAILY MEAN	.34	Sep 4	[a]1.6	Oct 1	[b].00	Oct 1 1955
ANNUAL SEVEN-DAY MINIMUM	.41	Aug 30	1.6	Oct 7	.00	Jul 21 1956
INSTANTANEOUS PEAK FLOW			712	May 17	[c]1410	May 14 1984
INSTANTANEOUS PEAK STAGE			4.64	May 17	5.83	May 14 1984
ANNUAL RUNOFF (AC-FT)	28620		41060		26470	
10 PERCENT EXCEEDS	133		198		121	
50 PERCENT EXCEEDS	4.4		8.6		3.9	
90 PERCENT EXCEEDS	1.6		3.4		.70	

e-Estimated.
a-Also occurred Oct 2 and 8-13.
b-No flow at times in most years.
c-From rating curve extended above 670 ft^3/s.

09093700 COLORADO RIVER NEAR DE BEQUE, CO

LOCATION.--Lat 39°21'45", long 108°09'07", in NE¼SW¼ sec.7, T.8 S., R.96 W., Mesa County, Hydrologic Unit 14010006, on left bank 3.0 mi downstream from Alkali Creek, and 3.8 mi northeast of De Beque.

DRAINAGE AREA.--7,370 mi^2.

PERIOD OF RECORD.--Streamflow records, October 1966 to September 1997 (discontinued). Water-quality data available, August 1973 to September 1982. Sediment data available, October 1974 to September 1976.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,940 ft above sea level, from topographic map.

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 of about 158,000 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2490	2350	2200	2050	1980	1910	3200	5940	20300	13400	5030	3300
2	2460	2200	2170	2030	2000	1890	3370	5630	24200	12000	5390	3290
3	2470	2260	2130	2220	2020	1910	3220	5230	25600	10900	5190	3220
4	2650	2370	1920	2200	2010	1940	3210	5090	26000	9880	5170	3230
5	2630	2400	1980	2120	1970	1930	3380	5510	26400	9410	5400	3250
6	2560	2360	2030	1900	1990	1890	3300	6810	26300	8880	5710	3340
7	2530	2320	2180	1840	1970	1980	e3150	8560	25600	8440	6020	3480
8	2480	2150	2080	1740	1900	2030	e3120	9740	25600	8000	5740	3460
9	2400	2160	2110	1950	1760	2060	e3100	10500	25300	7570	5200	3330
10	2390	2180	2150	2090	1770	2120	e3150	11100	23200	7150	5110	3160
11	2410	2240	2280	2170	1830	2190	3110	11700	23200	6940	5980	2890
12	2380	2210	2310	2150	1940	2230	2950	12200	23200	6700	6140	2940
13	2390	2150	2250	2010	2030	2410	2860	12500	22800	6490	6390	2790
14	2370	2170	2190	1830	1960	2440	2850	12800	21700	6300	6280	2780
15	2380	2260	2130	1900	1960	2300	2840	13300	21000	6050	6010	2770
16	2390	2350	1910	1920	1980	2320	2900	14400	19700	5810	5430	2900
17	2470	2310	e1770	1830	1970	2530	3070	15300	18500	5620	4960	2930
18	2360	2160	e1270	1720	2020	2790	3460	16600	18400	5550	4580	2860
19	2360	2180	e1280	1820	2040	2810	4040	17500	19300	5410	4420	2850
20	2440	2250	e1300	1870	1990	2890	4520	18000	21300	5380	4350	3510
21	2530	2310	e1570	1890	1950	2950	5010	18200	21700	5300	4330	4700
22	2470	2530	e2100	1970	1890	3000	5450	19000	21200	5010	4580	4750
23	2370	2800	e2200	1990	1840	3220	5190	20700	20600	5110	4370	4460
24	2420	2660	e2100	2020	1890	3410	4940	20100	19700	5360	4160	4120
25	2520	2520	e1900	1970	1960	3520	4830	19600	18800	5010	4070	3880
26	2570	2440	e2000	1980	1890	3300	4590	18100	17700	4570	4190	3700
27	2510	2360	e2160	2180	1900	3140	4600	15700	16100	4300	4040	3830
28	2550	2260	2260	2080	1960	3290	4920	13600	15100	4230	3690	3960
29	2570	2150	2170	1940	---	3250	5760	12700	14500	4570	3580	3740
30	e2580	2190	2100	1990	---	3350	6330	15200	14000	4620	3470	3510
31	e2470	---	2100	1920	---	3190	---	17500	---	4870	3360	---
TOTAL	76570	69250	62300	61290	54370	80190	116420	408810	637000	208830	152340	102930
MEAN	2470	2308	2010	1977	1942	2587	3881	13190	21230	6736	4914	3431
MAX	2650	2800	2310	2220	2040	3520	6330	20700	26400	13400	6390	4750
MIN	2360	2150	1270	1720	1760	1890	2840	5090	14000	4230	3360	2770
AC-FT	151900	137400	123600	121600	107800	159100	230900	810900	1263000	414200	302200	204200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1997, BY WATER YEAR (WY)

MEAN	2186	2013	1739	1641	1646	1895	3058	8379	12200	6205	2956	2321
MAX	3537	3093	2855	2512	2353	2953	6449	19450	25230	16880	6420	4072
(WY)	1985	1985	1985	1985	1986	1986	1985	1984	1984	1995	1984	1984
MIN	1474	1289	1257	1176	1182	1178	1643	2273	2890	1862	1732	1685
(WY)	1978	1978	1978	1990	1981	1977	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1967 - 1997	
ANNUAL TOTAL	1747550		2030300			
ANNUAL MEAN	4775		5562		3858	
HIGHEST ANNUAL MEAN					7310	1984
LOWEST ANNUAL MEAN					1785	1977
HIGHEST DAILY MEAN	20600	May 20	26400	Jun 5	37400	May 26 1984
LOWEST DAILY MEAN	e1270	Dec 18	e1270	Dec 18	914	Dec 22 1977
ANNUAL SEVEN-DAY MINIMUM	1600	Dec 16	1600	Dec 16	1090	Dec 21 1990
INSTANTANEOUS PEAK FLOW			26800	Jun 5	38200	May 26 1984
INSTANTANEOUS PEAK STAGE			12.08	Jun 5	14.83	May 26 1984
ANNUAL RUNOFF (AC-FT)	3466000		4027000		2795000	
10 PERCENT EXCEEDS	13200		16300		9180	
50 PERCENT EXCEEDS	2500		2930		2160	
90 PERCENT EXCEEDS	2080		1940		1450	

e-Estimated.

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 current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,385 ft above sea level, from topographic map.

REMARKS.-- Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected March to October by diversions for irrigation upstream from gage.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.6	e2.2	2.0	3.1	e2.3	2.3	1.1	2.6	2.9	1.8	3.1
2	1.1	1.5	e1.8	2.0	3.4	e2.7	2.1	.97	2.5	2.9	2.0	4.6
3	3.0	1.6	e1.7	27	3.0	e2.2	1.8	.86	2.8	2.8	2.2	2.8
4	1.3	1.7	e1.9	10	2.8	e2.1	e1.6	.80	2.8	2.7	2.5	3.2
5	1.1	1.4	e2.0	e2.4	2.9	e2.3	e1.3	.74	3.1	2.9	3.8	3.3
6	1.2	1.8	e1.8	e2.2	2.8	e3.0	e1.5	.67	3.4	3.0	3.5	8.5
7	1.2	e1.4	e1.7	e2.1	e2.1	e4.2	e1.7	.68	4.2	1.7	2.6	4.7
8	1.1	e1.5	e1.8	e2.5	e2.0	6.9	2.7	.67	4.6	1.6	2.4	4.1
9	1.1	e1.6	e1.9	e2.8	e2.1	8.3	7.5	.67	4.7	1.7	2.4	4.0
10	1.1	e1.6	3.4	2.7	e2.2	13	6.6	.68	4.8	1.6	2.6	4.4
11	1.1	e1.5	6.6	2.7	e2.5	19	e1.5	.73	4.8	1.5	2.7	4.7
12	1.1	e1.6	5.2	e2.0	e2.4	30	e1.4	.72	2.5	1.2	2.9	4.4
13	1.0	1.7	3.5	e2.1	e2.3	e30	e1.5	.72	2.8	.62	2.9	4.4
14	1.1	1.7	2.6	e2.2	e2.0	14	e1.7	.73	2.5	.39	3.1	4.4
15	1.3	1.9	e1.9	e2.3	e2.8	16	2.3	.76	2.4	.41	2.6	4.3
16	1.6	2.0	e1.9	e2.2	e3.6	26	1.8	.81	.99	.49	1.6	7.8
17	1.6	1.9	e1.4	e2.1	8.1	18	1.6	.81	e.00	.50	1.6	4.4
18	1.5	2.5	e1.4	e2.3	12	12	1.6	.82	e.00	.27	1.5	4.2
19	1.5	6.3	e1.7	e2.3	8.2	11	1.6	.84	e.00	.04	1.5	6.4
20	1.6	6.6	e1.8	e2.4	4.4	9.1	1.5	.88	e.04	.32	1.6	44
21	1.5	4.9	e2.0	e2.4	e2.6	6.8	1.5	.96	.03	.03	1.6	e19
22	e1.4	9.6	e2.1	e2.4	e2.7	5.4	1.5	1.1	.02	.03	1.7	e9.6
23	1.5	13	e1.9	e2.2	e2.6	5.0	1.4	1.1	e.02	.03	1.8	4.2
24	1.4	4.0	e1.8	e2.2	e2.7	4.7	1.8	2.1	e.02	.02	2.3	4.0
25	1.5	3.5	e1.8	e2.4	e2.4	e3.0	1.3	5.5	.12	.59	2.1	3.9
26	1.6	3.4	1.8	e2.7	e2.5	e3.5	1.1	7.3	1.7	.94	2.4	6.2
27	1.4	e2.9	1.9	3.6	2.8	e3.3	.95	2.6	2.9	1.1	2.3	6.6
28	2.8	e2.5	2.0	e3.1	2.7	3.3	.94	2.5	3.0	1.1	2.3	5.5
29	3.9	e2.6	2.0	e2.7	---	3.0	.94	2.5	3.3	1.5	2.4	5.2
30	2.5	e2.1	2.0	e2.5	---	2.3	.88	2.6	3.1	1.8	2.5	4.9
31	2.1	---	2.0	e2.3	---	2.2	---	2.6	---	1.8	2.6	---
TOTAL	48.4	91.9	69.5	106.8	95.7	274.6	57.91	46.52	65.74	38.48	71.8	200.8
MEAN	1.56	3.06	2.24	3.45	3.42	8.86	1.93	1.50	2.19	1.24	2.32	6.69
MAX	3.9	13	6.6	27	12	30	7.5	7.3	4.8	3.0	3.8	44
MIN	1.0	1.4	1.4	2.0	2.0	2.1	.88	.67	.00	.02	1.5	2.8
AC-FT	96	182	138	212	190	545	115	92	130	76	142	398

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1997, BY WATER YEAR (WY)

MEAN	2.44	3.25	2.56	3.03	6.47	6.46	1.66	1.23	1.58	1.20	1.93	4.07
MAX	3.32	3.44	2.88	3.45	9.42	8.86	1.93	1.50	2.19	1.24	2.32	6.69
(WY)	1996	1996	1996	1997	1996	1997	1997	1997	1997	1997	1997	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1996 - 1997	
ANNUAL TOTAL	917.91		1168.15			
ANNUAL MEAN	2.51		3.20		2.97	
HIGHEST ANNUAL MEAN					3.20	1997
LOWEST ANNUAL MEAN					2.74	1996
HIGHEST DAILY MEAN	95	Feb 22	44	Sep 20	95	Feb 22 1996
LOWEST DAILY MEAN	[a].08	Jul 13	[e,b].00	Jun 17	[e,b].00	Jun 17 1997
ANNUAL SEVEN-DAY MINIMUM	.34	May 7	.02	Jun 17	.02	Jun 17 1997
INSTANTANEOUS PEAK FLOW			189	Sep 20	[c]235	Feb 22 1996
INSTANTANEOUS PEAK STAGE			4.63	Sep 20	[d]4.50	Feb 22 1996
ANNUAL RUNOFF (AC-FT)	1820		2320		2150	
10 PERCENT EXCEEDS	4.2		5.5		4.7	
50 PERCENT EXCEEDS	1.7		2.2		2.2	
90 PERCENT EXCEEDS	.60		.82		.68	

e-Estimated.
a-Also occurred Jul 14.
b-Also occurred Jun 18-19.
c-From slope-conveyance calculation.
d-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 current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1996 to September 1997.

INSTRUMENTATION.--Water temperature sensor and logger October 1996.

REMARKS.--Upper Colorado River Basin National Water Quality Assessment Program station (NAWQA). Daily water temperature data are good. Sensor buried Mar. 12-21. No record Apr. 28-June 26, data download malfunction.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 30.3°C, July 21; minimum, 0°C on many days Oct. to Apr..

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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												
03...	1205	4.1	1480	8.4	12.5	8.7	280	60	32	210	5	4.5
NOV												
22...	1108	9.1	1340	8.4	6.0	10.3	260	53	31	200	5	3.3
DEC												
19...	1140	2.3	3010	8.4	0.0	12.1	920	120	150	380	5	2.6
JAN												
22...	1130	3.4	2230	8.5	0.0	12.2	730	110	110	270	4	2.0
FEB												
26...	1335	5.1	2330	8.6	0.0	12.1	700	100	110	290	5	2.4
MAR												
10...	2040	39	561	8.3	0.5	12.0	130	25	17	65	2	3.7
11...	2055	56	517	8.3	1.5	11.7	130	26	15	62	2	4.1
21...	1050	5.4	1760	8.6	6.5	10.0	560	86	83	190	4	3.2
APR												
28...	1210	1.0	3310	8.5	13.5	8.5	1000	120	171	471	6	3.1
MAY												
12...	0840	0.78	3260	8.5	10.0	9.0	980	120	166	461	6	2.9
JUN												
27...	1310	2.8	1990	8.5	19.0	7.6	650	92	103	228	4	3.0
JUL												
21...	1330	0.03	3290	8.5	29.5	5.9	970	110	171	458	6	3.7
AUG												
08...	0920	2.7	2610	8.5	13.5	8.5	840	120	135	342	5	3.0
SEP												
08...	1305	4.1	2860	8.5	16.5	8.1	890	120	144	387	6	3.4
22...	1345	6.7	2410	8.5	15.0	8.1	760	130	96	339	5	4.9

09095300 DRY FORK AT UPPER STATION NEAR DEBEQUE, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	BICAR-BONATE[a] WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE[b] WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA-LINITY[c] 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)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT												
03...	290	14	262	460	6.4	0.5	9.5	970	943	1.32	10.7	0.02
NOV												
22...	289	7	249	410	6.3	0.5	8.6	895	865	1.22	22.0	0.03
DEC												
19...	626	22	549	1300	13	0.4	17	2340	2320	3.18	14.5	<0.01
JAN												
22...	500	22	446	840	9.8	0.3	16	1610	1630	2.19	14.8	<0.01
FEB												
26...	461	13	400	950	10	0.4	14	1760	1720	2.39	24.2	<0.01
MAR												
10...	138	--	113	140	2.5	0.2	5.4	355	328	0.48	37.1	0.02
11...	132	--	108	140	2.5	0.2	5.4	344	321	0.47	52.0	<0.01
21...	377	10	325	650	8.2	0.3	13	1290	1230	1.75	18.8	<0.01
APR												
28...	486	18	434	1500	16	0.3	13	2670	2590	3.63	7.36	<0.01
MAY												
12...	498	19	440	1400	14	0.4	14	2560	2490	3.48	5.39	<0.01
JUN												
27...	469	24	424	730	7.3	0.4	18	1460	1440	1.98	11.1	<0.01
JUL												
21...	436	4	363	1500	14	0.3	15	2610	2480	3.55	0.21	0.01
AUG												
08...	526	20	465	1100	11	0.3	17	2010	1970	2.73	14.6	0.01
SEP												
08...	494	19	443	1200	11	0.4	17	2210	2110	3.01	24.2	<0.01
22...	394	11	341	1000	10	0.4	13	1870	1820	2.54	33.7	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)	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)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
OCT												
03...	0.71	<0.015	13	0.4	5.9	<0.01	<0.01	6.0	--	<3	7	3
NOV												
22...	0.74	0.02	11	0.3	5.8	<0.01	0.02	6.6	>17	4	11	3
DEC												
19...	0.66	<0.015	0.3	<0.2	<0.01	<0.01	<0.01	5.4	0.2	<9	71	4
JAN												
22...	0.30	<0.015	0.3	<0.2	0.05	<0.01	<0.01	4.0	0.9	12	34	2
FEB												
26...	0.41	<0.015	0.9	<0.2	0.30	<0.01	<0.01	4.8	1.5	<9	33	2
MAR												
10...	0.18	0.14	5.5	0.7	7.5	0.05	0.06	12	>10	21	13	1
11...	0.20	0.11	14	0.6	8.0	0.09	0.07	11	>33	36	9	2
21...	0.22	<0.015	0.8	<0.2	0.35	0.06	0.04	5.2	3.7	<3	16	2
APR												
28...	0.67	<0.015	0.3	0.4	0.05	0.01	<0.01	5.4	0.3	<150	<50	3
MAY												
12...	1.0	<0.015	0.2	0.3	<0.01	<0.01	<0.01	5.2	--	22	18	4
JUN												
27...	0.48	<0.015	1.2	0.3	0.44	<0.01	<0.01	5.2	>5.0	<3	11	11
JUL												
21...	1.4	<0.015	0.4	0.4	<0.01	<0.01	<0.01	7.7	0.2	<9	6	7
AUG												
08...	1.1	0.015	0.5	0.3	0.14	<0.01	<0.01	5.5	1.6	<9	18	5
SEP												
08...	1.2	<0.015	0.5	0.3	0.10	<0.01	0.02	5.9	1.3	<9	44	25
22...	0.86	0.02	6.1	0.3	2.0	<0.01	0.01	7.2	>20	14	35	12

a-Field dissolved bicarbonate, determined by incremental titration method.
b-Field dissolved carbonate, determined by incremental titration method.
c-Field total dissolved alkalinity, determined by incremental titration method.

09095300 DRY FORK AT UPPER STATION NEAR DEBEQUE, CO--Continued

(National Water-Quality Assessment Program station)

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	SAMPLER[f] TYPE (CODE) (84164)
OCT						
03...	1205	4.1	18900[d]	208	--	8010
NOV						
22...	1108	9.1	17400[d]	428	--	3044
DEC						
19...	1140	2.3	96[d]	0.60	--	8010
19...	1141	2.3	95	0.59	--	8010
JAN						
22...	1130	3.4	114[d]	1.0	--	8010
FEB						
26...	1335	5.1	936[d]	13	--	3044
MAR						
10...	2040	39	15300[d]	1600	--	3044
10...	2050	39	18500	1930	--	3044
11...	2045	56	17000	2570	84	3044
11...	2055	56	15900[d]	2400	--	3044
21...	1050	5.4	788[d]	11	--	3045
APR						
28...	1210	1.0	59[d]	0.16	--	3044
MAY						
12...	0840	0.78	35[d]	0.07	--	8010
JUN						
27...	1310	2.8	775[d]	5.9	--	3044
JUL						
21...	1330	0.03	39[d]	0.00	--	8010
AUG						
08...	0920	2.7	394[d]	2.9	--	3044
SEP						
08...	1305	4.1	365[d]	4.0	--	3045
22...	1340	6.7	8110	147	99	3044
22...	1345	6.7	7980[d]	144	99	3044

d-Suspended-sediment concentration determined from a subsample split of a composite sample.
f-Sampler type: codes 3044 and 3045 are suspended-sediment and water-quality samplers; 8010 is a 1 or 3-liter bottle.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	5.8	1.0	3.3	.2	.0	.1	1.9	.6	1.2
2	---	---	---	5.7	.5	3.1	.2	.0	.1	2.2	.7	1.4
3	---	---	---	5.4	1.6	3.6	.2	.0	.1	1.9	.2	.7
4	---	---	---	7.5	4.6	5.5	.2	.0	.1	.2	.2	.2
5	---	---	---	7.5	3.8	5.3	.2	.0	.0	.2	.2	.2
6	---	---	---	4.9	1.3	3.1	.2	.0	.1	.2	.0	.2
7	---	---	---	3.2	.0	1.0	.7	.0	.2	.2	.0	.1
8	---	---	---	3.8	.0	1.2	.9	.0	.2	.2	.0	.1
9	---	---	---	4.6	.0	1.9	1.7	.0	.7	.2	.0	.2
10	---	---	---	4.7	.0	2.2	2.1	.2	.9	1.7	.2	.9
11	---	---	---	4.4	.0	2.1	2.4	.4	1.2	2.4	.6	1.2
12	---	---	---	4.7	.0	2.3	3.6	.6	1.8	.6	.2	.2
13	---	---	---	5.7	1.1	3.2	4.9	1.7	2.9	.9	.2	.3
14	---	---	---	5.7	1.6	3.6	2.1	.2	1.1	2.2	.2	.8
15	---	---	---	4.6	1.0	3.1	.2	.2	.2	.2	.2	.2
16	8.9	5.0	6.9	3.0	1.3	2.1	1.3	.2	.3	.2	.2	.2
17	7.7	2.2	4.9	2.1	1.1	1.6	.2	.2	.2	.2	.0	.2
18	7.8	1.0	4.3	5.4	2.1	3.3	.2	.2	.2	.2	.0	.2
19	8.8	3.9	6.3	4.7	.8	2.6	.2	.0	.2	.2	.0	.2
20	6.9	2.5	5.0	5.5	2.2	3.6	.2	.0	.1	.2	.2	.2
21	4.9	.8	2.4	5.8	1.4	3.7	.2	.0	.1	1.4	.2	.6
22	5.2	.0	1.9	6.7	4.7	5.6	1.1	.0	.5	1.6	.2	.7
23	6.6	.6	3.3	5.4	3.2	4.3	1.1	.3	.7	1.6	.6	1.0
24	5.5	.3	3.3	4.3	1.1	2.7	.9	.2	.3	.9	.2	.4
25	4.9	3.0	3.9	5.2	2.2	3.4	1.1	.2	.4	.9	.2	.4
26	5.8	2.5	3.6	4.6	2.2	3.4	1.6	.4	.9	1.9	.9	1.4
27	6.1	1.1	3.4	2.2	.0	.8	1.7	1.1	1.4	2.1	.4	1.2
28	6.0	3.2	4.5	.2	.0	.1	1.6	.7	1.2	1.6	.2	.7
29	5.4	2.8	3.9	1.9	.0	.7	1.9	.6	1.1	2.2	.6	1.2
30	6.3	2.4	4.1	2.2	.0	.8	2.1	.9	1.3	1.8	.2	.8
31	5.2	2.5	3.7	---	---	---	2.2	.9	1.4	2.2	.2	1.0
MONTH	---	---	---	7.5	.0	2.8	4.9	.0	.6	2.4	.0	.6

09095300 DRY FORK AT UPPER STATION NEAR DEBEQUE, CO--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.5	.4	1.2	3.3	.2	.9	6.5	3.0	5.0	---	---	---
2	2.4	.3	1.2	2.8	.2	.9	10.0	1.1	5.5	---	---	---
3	1.7	.3	1.1	4.3	.2	1.8	15.1	2.8	8.2	---	---	---
4	2.7	.6	1.3	3.6	.3	1.6	7.8	5.0	6.8	---	---	---
5	3.0	.7	1.7	2.5	.2	.7	6.7	1.9	4.1	---	---	---
6	2.5	.5	1.6	5.0	.2	1.3	11.5	.4	5.1	---	---	---
7	1.2	.0	.3	5.7	.2	1.7	12.8	1.2	6.3	---	---	---
8	.2	.0	.1	6.0	.2	2.1	10.9	2.8	6.9	---	---	---
9	.4	.0	.1	5.7	.4	2.0	9.4	5.4	7.1	---	---	---
10	.9	.0	.2	6.0	.4	1.9	7.2	1.0	4.3	---	---	---
11	2.2	.0	.6	7.1	.2	2.2	7.4	.2	2.5	---	---	---
12	2.2	.0	.9	---	---	---	8.1	.2	2.7	---	---	---
13	2.2	.0	.7	---	---	---	11.4	.0	4.1	---	---	---
14	1.6	.2	.4	---	---	---	14.0	.4	6.5	---	---	---
15	3.2	.2	1.1	---	---	---	15.4	3.3	8.7	---	---	---
16	2.8	.2	.9	---	---	---	17.8	3.2	9.8	---	---	---
17	3.2	.2	.9	---	---	---	18.4	3.9	10.6	---	---	---
18	2.2	.2	1.0	---	---	---	19.9	4.4	11.3	---	---	---
19	3.3	.2	1.0	---	---	---	17.6	5.5	11.5	---	---	---
20	2.8	.2	1.3	---	---	---	16.8	6.9	11.8	---	---	---
21	3.2	.2	.7	13.4	---	---	12.5	7.7	9.7	---	---	---
22	1.7	.2	.5	13.4	4.1	8.6	15.3	6.6	10.4	---	---	---
23	2.1	.2	.7	14.2	4.7	8.9	10.1	4.4	7.7	---	---	---
24	3.2	.2	.9	7.6	2.6	5.9	11.8	5.7	8.4	---	---	---
25	3.0	.2	.8	10.9	.2	4.9	16.8	2.8	9.3	---	---	---
26	2.8	.3	1.0	13.4	1.6	6.9	14.9	6.1	10.1	---	---	---
27	1.9	.7	1.3	13.4	3.3	7.6	20.4	3.8	11.5	---	---	---
28	2.5	.4	1.3	13.2	2.2	7.3	---	8.1	---	---	---	---
29	---	---	---	13.2	4.3	7.8	---	---	---	---	---	---
30	---	---	---	14.3	1.4	7.0	---	---	---	---	---	---
31	---	---	---	11.8	3.5	6.7	---	---	---	---	---	---
MONTH	3.3	.0	.9	---	---	---	---	---	---	---	---	---

		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	21.2	11.8	15.9	21.9	13.1	17.2	18.0	13.1	15.3
2	---	---	---	21.2	9.4	14.9	21.7	12.5	17.0	19.6	13.9	16.3
3	---	---	---	21.9	11.4	16.2	21.5	13.7	16.7	19.3	13.4	16.0
4	---	---	---	22.0	10.6	15.9	19.1	14.9	16.7	17.6	13.7	15.5
5	---	---	---	20.4	10.9	15.6	21.0	14.5	17.3	19.3	12.1	15.2
6	---	---	---	21.5	11.1	16.0	21.4	14.2	17.4	16.2	12.9	14.3
7	---	---	---	23.9	11.5	16.9	22.2	12.5	16.9	17.3	11.7	14.4
8	---	---	---	21.7	12.5	16.4	22.5	12.5	16.9	18.9	11.5	15.0
9	---	---	---	21.5	11.5	16.3	20.4	13.9	16.8	17.6	12.0	14.5
10	---	---	---	24.0	12.0	17.2	19.4	14.6	16.8	18.1	11.5	14.8
11	---	---	---	17.3	12.8	15.2	18.8	12.8	15.3	17.3	12.5	14.7
12	---	---	---	20.5	11.5	15.5	19.7	12.1	15.5	18.3	12.3	14.9
13	---	---	---	26.0	12.1	17.3	20.7	12.0	15.9	14.9	11.5	13.2
14	---	---	---	24.4	10.5	16.8	20.4	12.3	15.9	18.0	11.1	14.2
15	---	---	---	25.8	11.2	17.6	21.2	11.8	16.0	15.1	12.8	13.9
16	---	---	---	25.8	12.3	17.9	19.9	11.7	15.5	17.2	13.2	14.6
17	---	---	---	25.3	13.1	18.3	19.7	12.8	16.1	16.7	10.6	13.6
18	---	---	---	25.8	14.2	18.6	19.1	12.1	15.5	18.0	13.4	15.3
19	---	---	---	29.5	14.9	19.5	20.2	11.7	15.5	15.7	12.8	14.4
20	---	---	---	24.2	12.5	17.5	20.5	11.7	15.8	16.4	8.4	13.3
21	---	---	---	30.3	11.8	19.7	19.6	13.1	16.0	14.6	10.6	12.5
22	---	---	---	29.5	13.5	20.3	21.2	13.5	16.8	14.5	10.5	12.1
23	---	---	---	27.5	15.9	20.8	18.4	12.3	15.7	15.6	9.1	12.0
24	---	---	---	29.0	14.0	20.3	21.2	14.0	17.0	16.0	8.8	12.2
25	---	---	---	22.7	12.1	17.5	19.6	13.7	16.5	16.0	9.2	12.6
26	---	---	---	20.4	11.7	16.2	17.2	14.5	15.5	14.2	12.1	13.1
27	22.9	---	---	22.2	14.3	17.5	19.3	12.6	15.6	17.3	11.5	14.2
28	22.2	12.8	16.9	18.0	14.3	16.2	19.3	12.9	15.7	15.7	9.5	12.5
29	21.7	11.2	16.1	23.0	14.9	18.2	19.3	12.8	15.7	15.4	8.1	11.6
30	21.5	10.5	15.7	19.2	14.8	16.8	18.3	12.5	15.1	15.7	8.3	11.8
31	---	---	---	22.5	14.5	17.6	16.5	12.6	14.5	---	---	---
MONTH	---	---	---	30.3	9.4	17.3	22.5	11.7	16.2	19.6	8.1	13.9

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. Datum of gage is 4,813.73 ft above sea level, (Levels by Colorado Department of Highways). Prior to Oct. 10, 1934, nonrecording gage on river and water-stage recorder on Highline Canal, about 10 mi downstream at different datum. Oct. 10, 1934 to Feb. 27, 1958, water-stage recorder at site 3.0 mi downstream at datum 22.55 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power development, and diversion for irrigation of about 160,000 acres.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2460	2410	2070	2040	1920	2000	3340	6230	20300	14300	5180	3530
2	2440	2260	2000	2030	1930	1960	3520	5820	23900	12900	5460	3500
3	2490	2290	2030	2370	1890	1980	3400	5320	25400	11500	5340	3400
4	2600	2420	1870	2270	1900	2030	3430	5080	25400	10400	5320	3360
5	2630	2450	1920	2130	1820	2010	3570	5410	25900	9840	5530	3410
6	2560	2410	1790	1970	1870	2010	3490	6670	25800	9240	5790	3510
7	2530	2370	1960	2000	1870	2130	3340	8570	25400	8730	5970	3610
8	2480	2200	1950	1790	1820	2220	3260	10000	25200	8200	5800	3590
9	2420	2190	2050	1980	1710	2290	3310	11000	25100	7830	5290	3440
10	2400	2220	2120	2090	1740	2370	3590	11800	23400	7460	5180	3310
11	2430	2290	2270	2120	1790	2460	3380	12500	23200	7230	5860	3080
12	2410	2260	2240	2080	1910	2570	3220	13100	23300	7020	6080	3030
13	2440	2200	e2100	2000	2030	2730	3140	13500	23000	6760	6320	3000
14	2430	2220	e2000	1890	2000	2710	3130	13900	22200	6580	6220	2920
15	2440	2290	e1950	1910	1990	2580	3130	14400	21500	6360	6000	2910
16	2430	2400	e1900	1940	2050	2640	3170	e15000	20400	6110	5520	3030
17	2510	2340	1890	1910	2010	2830	3300	e16000	19300	5930	5100	3090
18	2420	2200	1460	1870	2080	3010	3620	e17000	19100	5810	4760	3050
19	2400	2190	1700	1980	1990	2990	4110	e18000	20000	5680	4590	3070
20	2500	2230	e1750	2120	1940	2970	4550	18900	21800	5610	4520	3820
21	2590	2260	e1900	2080	1900	3130	5000	19200	22500	5550	4520	5520
22	2540	2550	e2050	2160	1860	3160	5450	19900	21900	5320	4750	5110
23	2430	2840	e2200	2060	1830	3290	5280	21600	21400	5350	4600	4550
24	2470	2600	e2150	2070	1890	3450	5050	21200	20600	5520	4420	4250
25	2580	2450	e2100	2050	2000	3530	4970	20700	19800	5260	4350	4030
26	2640	2370	e2000	2050	1960	3360	4750	19400	18700	4940	4430	3870
27	2560	2270	e2050	2260	1980	3250	4780	16900	17200	4670	4330	3950
28	2590	2160	e2150	2110	2030	3390	5020	14600	16100	4600	4000	4060
29	2700	2060	e2200	1920	---	3370	5870	13400	15500	4830	3840	3880
30	2600	2060	2210	1960	---	3440	6580	15700	15000	4880	3700	3670
31	2470	---	2110	1870	---	3330	---	18000	---	5060	3590	---
TOTAL	77590	69460	62140	63080	53710	85190	121750	428800	648300	219470	156360	108550
MEAN	2503	2315	2005	2035	1918	2748	4058	13830	21610	7080	5044	3618
MAX	2700	2840	2270	2370	2080	3530	6580	21600	25900	14300	6320	5520
MIN	2400	2060	1460	1790	1710	1960	3130	5080	15000	4600	3590	2910
AC-FT	153900	137800	123300	125100	106500	169000	241500	850500	1286000	435300	310100	215300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1997, BY WATER YEAR (WY)

MEAN	2116	1937	1698	1581	1594	1806	3213	9266	12770	5953	2858	2195
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1934 - 1997	
ANNUAL TOTAL	1721920		2094400			
ANNUAL MEAN	4705		5738		3921	
HIGHEST ANNUAL MEAN					7605	1984
LOWEST ANNUAL MEAN					1937	1977
HIGHEST DAILY MEAN	21100	May 20	25900	Jun 5	38000	May 26 1984
LOWEST DAILY MEAN	1460	Dec 18	1460	Dec 18	700	Dec 29 1939
ANNUAL SEVEN-DAY MINIMUM	1790	Dec 15	1790	Dec 15	852	Dec 24 1939
INSTANTANEOUS PEAK FLOW			26300	Jun 5	39300	May 26 1984
INSTANTANEOUS PEAK STAGE			11.77	Jun 5	14.36	May 26 1984
ANNUAL RUNOFF (AC-FT)	3415000		4154000		2840000	
10 PERCENT EXCEEDS	12700		17100		9750	
50 PERCENT EXCEEDS	2500		3130		2130	
90 PERCENT EXCEEDS	2050		1960		1360	

e-Estimated.

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.--Published daily record of water temperature is good. Daily record of specific conductance is fair, except for the period Dec. 13 to Jan. 22, which is poor due to ice effect. 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, 1,410 microsiemens Dec. 20; minimum, 250 microsiemens June 21.
WATER TEMPERATURE: Maximum, 21.6°C Sept. 2-3; minimum, 0.0°C on many days Dec. to Feb.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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												
24...	1320	2470	989	8.6	5.5	10.9	230	66	15	100	3	3.1
NOV												
20...	1448	2240	1050	8.5	6.0	11.6	230	66	17	110	3	3.3
DEC												
23...	1408	2200	977	8.3	0.5	12.4	220	62	15	110	3	3.1
JAN												
23...	1345	2070	1020	8.6	2.0	12.6	220	65	15	110	3	3.2
FEB												
27...	1410	1890	1090	8.6	3.5	11.6	230	65	16	120	3	3.6
MAR												
14...	1245	2710	935	8.1	7.0	10.4	220	63	16	93	3	3.8
28...	1300	3310	760	8.3	8.5	9.8	190	54	14	74	2	3.1
APR												
29...	1245	6020	574	8.2	11.0	8.9	180	51	12	49	2	2.5
MAY												
08...	1210	10100	418	8.2	12.0	8.9	150	41	11	30	1	1.8
23...	1230	21800	304	8.2	10.5	9.3	120	33	8.0	16	0.7	1.3
JUN												
03...	1640	25300	258	8.2	14.0	8.5	96	28	6.1	12	0.5	1.2
24...	1240	20500	255	7.8	15.0	8.4	95	29	5.4	13	0.6	1.1
JUL												
25...	1100	5270	597	8.5	19.5	7.5	160	47	10	51	2	2.1
AUG												
07...	1130	5910	567	8.4	17.5	8.2	160	47	10	50	2	2.2
SEP												
05...	1215	3390	806	8.6	20.0	8.6	200	59	14	82	3	2.7

09095500 COLORADO RIVER NEAR CAMEO, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	BICAR-[a] BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-[b] BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA-[c] 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)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT												
24...	154	4	132	130	140	0.3	8.1	563	542	0.77	3750	0.01
NOV												
20...	149	8	136	140	150	0.3	7.5	603	576	0.82	3650	0.02
DEC												
23...	151	4	130	120	150	0.3	8.7	566	548	0.77	3360	<0.01
JAN												
23...	146	6	130	130	150	0.4	7.2	581	559	0.79	3250	0.01
FEB												
27...	138	6	123	130	170	0.4	5.5	619	584	0.84	3160	<0.01
MAR												
14...	154	--	126	130	130	0.3	7.9	543	521	0.74	3970	0.02
28...	137	1	114	100	100	0.2	9.4	458	425	0.62	4090	<0.01
APR												
29...	144	--	118	76	57	0.2	9.5	343	329	0.47	5580	0.01
MAY												
08...	120	--	98	53	31	0.2	9.8	247	237	0.34	6740	<0.01
23...	108	--	89	37	15	0.1	8.8	187	173	0.25	11000	<0.01
JUN												
03...	95	--	78	28	12	<0.1	7.8	163	143	0.22	11100	<0.01
24...	79	--	65	29	17	0.2	6.8	154	141	0.21	8520	<0.01
JUL												
25...	109	5	97	74	69	0.2	6.8	345	319	0.47	4910	<0.01
AUG												
07...	107	6	98	76	61	0.3	8.1	343	314	0.47	5470	<0.01
SEP												
05...	129	2	110	100	110	0.3	7.6	473	439	0.64	4330	<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)	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)
OCT											
24...	<0.05	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	2.1	0.3	6	3
NOV											
20...	0.07	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	1.7	0.5	<3	4
DEC											
23...	0.24	0.02	<0.2	<0.2	0.05	<0.01	<0.01	1.7	0.7	8	13
JAN											
23...	0.14	<0.015	<0.2	<0.2	<0.01	0.01	<0.01	1.9	0.3	<3	9
FEB											
27...	<0.05	<0.015	0.3	<0.2	<0.01	<0.01	<0.01	2.5	0.7	4	14
MAR											
14...	0.23	0.14	0.9	0.3	0.20	<0.01	<0.01	3.5	--	<3	15
28...	0.28	0.08	0.5	0.3	0.14	0.02	0.03	3.0	1.5	14	11
APR											
29...	0.22	0.04	1.0	0.3	0.36	0.01	0.01	3.3	>5.0	10	9
MAY											
08...	0.30	0.03	1.8	<0.2	0.81	0.02	0.01	4.0	>10	11	9
23...	0.13	<0.015	0.8	<0.2	0.32	<0.01	<0.01	4.5	3.3	13	8
JUN											
03...	0.13	0.04	0.5	<0.2	0.27	<0.01	0.01	4.5	3.9	24	9
24...	0.09	<0.015	<0.2	<0.2	0.04	<0.01	<0.01	2.9	0.8	14	5
JUL											
25...	<0.05	0.03	<0.2	<0.2	0.03	<0.01	<0.01	2.3	0.6	9	3
AUG											
07...	0.17	0.04	0.7	0.2	0.36	<0.01	0.01	2.4	3.6	<3	<1
SEP											
05...	<0.05	<0.015	<0.2	<0.2	0.02	<0.01	<0.01	2.5	0.4	7	3

a-Field dissolved bicarbonate, determined by incremental titration method.
b-Field dissolved carbonate, determined by incremental titration method.
c-Field total dissolved alkalinity, determined by incremental titration method.

09095500 COLORADO RIVER NEAR CAMEO, CO--Continued

(National Water-Quality Assessment Program station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	SAMPLER[f] TYPE (CODE) (84164)
OCT						
24...	1320	2470	5	33[d]	--	3039
24...	1345	2470	4	27	--	3009
NOV						
20...	1411	2240	59	357	98	3009
20...	1448	2240	30	181[d]	--	3039
DEC						
23...	1332	2200	74	440	--	3009
23...	1408	2200	61	362[d]	--	3039
JAN						
23...	1300	2070	14	78	--	3009
23...	1345	2070	11	61[d]	--	3039
FEB						
27...	1335	1890	21	107	--	3009
27...	1410	1890	18	92[d]	--	3039
27...	1411	1890	18	92[d]	--	3039
MAR						
14...	1210	2680	329	2380	95	3009
14...	1245	2710	291	2130[d]	--	3039
28...	1245	3310	148	1320	86	3009
28...	1300	3310	109	974[d]	--	3039
APR						
29...	1225	6020	613	9960	76	3009
29...	1245	6020	562	9130[d]	--	3039
MAY						
08...	1150	10100	1070	29200	76	3009
08...	1210	10100	1170	31900[d]	--	3039
23...	1230	21800	622	36500[d]	--	3039
23...	1305	21800	566	33300	74	3009
JUN						
03...	1620	25300	376	25700	59	3009
03...	1640	25300	378	25800[d]	--	3039
24...	1225	20500	143	7920	58	3009
24...	1240	20500	113	6250[d]	--	3039
JUL						
25...	1100	5270	60	854[d]	--	3039
25...	1130	5270	75	1070	87	3009
AUG						
07...	1130	5910	618	9860[d]	--	3039
07...	1205	5910	659	10500	89	3009
SEP						
05...	1200	3390	34	311	62	3009
05...	1215	3390	25	229[d]	--	3039

d-Suspended-sediment concentration determined from a subsample split of a composite sample.
f-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 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	941	920	929	945	938	941	973	952	962	1060	996	1020
2	934	919	924	968	942	951	988	953	962	1070	1010	1030
3	935	909	918	978	963	970	1000	953	975	1050	937	999
4	942	930	937	968	958	963	1010	957	975	1050	937	1010
5	930	893	901	966	955	960	1050	1010	1040	1050	996	1010
6	914	899	903	964	947	955	1070	1040	1050	---	---	---
7	918	903	910	962	958	960	1080	1020	1050	---	---	---
8	926	908	914	991	959	967	1020	998	1000	1150	1120	1120
9	930	914	922	1020	991	1010	1030	1000	1020	1250	1050	1160
10	947	928	938	1030	1000	1010	1030	997	1020	1180	1020	1060
11	955	931	943	1030	1010	1020	1020	990	1000	1050	1000	1020
12	946	925	935	1030	989	1010	1010	993	1000	---	---	---
13	949	932	940	1090	983	1030	1010	991	995	---	---	---
14	952	926	936	1040	1020	1030	---	---	---	1050	997	1020
15	947	936	940	1060	1020	1040	---	---	---	1130	1050	1090
16	945	936	938	1050	977	996	---	---	---	1130	1070	1100
17	949	931	940	1010	1000	1010	---	---	---	---	---	---
18	940	914	926	1020	1000	1010	---	---	---	---	---	---
19	971	935	955	1070	1020	1040	1320	---	1180	---	---	---
20	972	947	956	1070	1040	1050	1410	1190	1310	1080	1050	1070
21	955	932	944	1050	1030	1040	1190	1080	1130	---	1010	---
22	935	916	923	1040	891	996	---	---	---	1020	997	1000
23	940	918	927	914	874	892	---	---	---	1000	974	989
24	954	937	947	897	864	876	---	---	---	1010	994	1000
25	962	930	944	883	866	873	---	---	---	1010	973	989
26	939	924	929	896	881	887	---	---	---	1030	991	1010
27	939	918	926	911	892	898	---	989	---	1040	947	1010
28	932	914	928	921	903	911	989	977	983	1000	953	978
29	929	904	917	952	916	934	995	973	983	1030	993	1000
30	926	910	918	969	952	964	1000	991	999	1050	1020	1030
31	940	911	925	---	---	---	1040	1000	1020	1050	1020	1030
MONTH	972	893	930	1090	864	973	---	---	---	---	---	---

	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	1070	1020	1050	1000	983	994	786	761	775	553	532	543
2	1050	1030	1040	1010	990	1000	775	748	764	575	549	561
3	1050	1020	1030	1030	1010	1020	791	757	780	599	575	587
4	1050	1020	1030	1030	1000	1010	806	778	794	611	599	606
5	1050	1020	1030	1020	995	1010	805	791	799	608	574	598
6	1070	1030	1060	1020	1000	1010	794	783	789	574	509	548
7	1050	1040	1040	1030	988	1010	797	785	792	509	441	478
8	1050	1040	1040	1010	958	988	825	796	814	442	409	426
9	1080	1050	1070	992	955	974	837	810	822	418	395	408
10	1120	1070	1110	991	948	971	846	819	835	400	388	394
11	1130	1100	1110	983	924	954	848	829	835	392	367	386
12	1140	1090	1110	964	899	939	845	832	840	383	372	377
13	1100	1020	1060	1010	908	955	858	843	852	393	376	384
14	1030	982	1010	939	885	905	876	853	865	390	372	380
15	1040	999	1010	955	930	941	867	855	860	375	356	364
16	1040	999	1020	974	947	960	858	845	851	366	345	358
17	1010	979	1000	964	917	939	845	819	831	---	---	---
18	1020	927	984	978	870	918	819	759	793	---	---	---
19	995	953	981	897	808	838	759	679	725	---	---	---
20	989	961	976	847	808	824	679	619	655	319	314	318
21	1020	981	1010	877	789	818	620	583	608	319	314	316
22	1020	996	1010	882	808	835	583	550	566	326	316	318
23	1040	1010	1020	853	803	820	566	552	559	321	309	312
24	1060	1010	1040	814	778	794	594	559	578	316	309	311
25	1030	989	1010	778	720	745	606	593	598	327	313	316
26	993	978	986	740	720	726	628	605	618	342	326	333
27	1020	977	1000	767	738	752	637	625	631	359	342	350
28	1030	989	1010	784	758	774	630	610	624	374	358	366
29	---	---	---	767	746	757	610	555	583	---	---	---
30	---	---	---	797	736	760	555	531	541	390	330	367
31	---	---	---	764	741	756	---	---	---	330	311	321
MONTH	1140	927	1030	1030	720	893	876	531	733	---	---	---

09095500 COLORADO RIVER NEAR CAMEO, CO--Continued

(National Water-Quality Assessment Program station)

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	311	282	299	314	302	308	661	631	643	722	718	720
2	282	263	272	329	304	319	640	598	625	759	721	748
3	267	263	265	358	329	349	613	588	601	793	759	772
4	267	259	264	378	355	370	617	608	614	829	792	804
5	262	257	260	390	375	383	616	604	609	845	822	833
6	260	253	257	400	383	394	970	573	623	860	814	832
7	257	254	256	415	400	410	608	523	567	852	797	822
8	257	253	255	467	446	458	540	522	529	797	784	788
9	263	253	259	456	426	441	577	540	561	787	779	782
10	275	263	269	476	448	465	594	577	586	814	777	782
11	276	268	272	485	472	481	598	551	582	875	814	845
12	270	266	268	489	479	485	557	549	553	882	821	849
13	269	266	267	502	488	498	549	487	522	904	872	887
14	273	268	271	506	494	500	487	479	483	928	904	913
15	277	271	273	518	502	510	496	478	485	934	919	928
16	291	277	283	523	510	517	538	492	514	952	930	940
17	294	290	292	535	518	526	583	538	560	953	938	946
18	293	287	291	546	532	539	624	583	604	945	931	937
19	288	272	281	560	537	546	650	624	641	960	940	949
20	272	254	264	569	558	564	658	644	653	1120	942	974
21	256	250	254	567	554	558	687	654	671	1140	873	983
22	258	252	255	576	553	563	681	645	664	890	772	813
23	260	253	257	595	576	587	676	627	645	775	763	768
24	262	253	259	588	568	576	670	654	661	808	770	794
25	269	260	265	604	585	593	675	669	672	828	808	820
26	277	266	272	637	601	615	693	675	684	852	823	840
27	295	277	287	667	632	648	681	652	668	872	848	861
28	305	295	301	682	667	673	702	673	691	858	811	833
29	308	301	305	680	647	672	705	696	701	831	815	824
30	308	302	305	673	646	661	707	700	703	844	822	833
31	---	---	---	675	650	665	720	707	710	---	---	---
MONTH	311	250	273	682	302	512	970	478	614	1140	718	847

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.3	11.7	13.5	7.0	4.6	5.8	2.3	.8	1.4	1.6	1.0	1.3
2	15.5	12.6	14.0	7.3	4.9	6.1	1.7	.4	1.1	2.2	.7	1.4
3	14.9	13.5	14.2	6.6	5.3	6.0	.9	.0	.2	2.2	1.8	2.0
4	15.6	12.7	14.2	7.3	5.5	6.3	.1	.0	.0	2.5	1.4	1.9
5	16.1	13.2	14.6	6.8	5.7	6.2	.1	.0	.0	1.8	.4	1.1
6	16.1	13.1	14.6	6.5	4.8	5.6	.8	.0	.4	.4	.0	.1
7	16.2	13.1	14.7	5.6	3.7	4.7	1.5	.4	.9	.0	.0	.0
8	15.8	12.8	14.4	5.1	2.9	4.1	1.3	.0	.6	.1	.0	.0
9	15.8	12.5	14.2	5.5	3.0	4.3	1.6	.0	.8	.4	.0	.1
10	15.5	12.4	14.1	5.8	3.4	4.6	2.6	1.1	1.8	.9	.1	.5
11	15.4	12.3	13.9	5.8	3.5	4.7	3.9	2.4	3.2	1.5	.6	1.0
12	15.1	12.2	13.7	5.9	3.5	4.8	5.2	3.3	4.2	.8	.0	.1
13	14.9	12.0	13.5	5.9	3.9	5.0	---	---	---	.0	.0	.0
14	15.3	12.5	13.8	5.5	4.2	4.8	---	---	---	.7	.0	.3
15	14.2	11.8	13.2	5.1	4.1	4.7	---	---	---	1.5	.0	.6
16	13.2	10.3	11.3	4.6	3.6	4.0	1.6	.0	1.2	1.4	.0	.5
17	10.3	7.8	9.0	4.0	3.3	3.7	.0	.0	.0	.2	.0	.0
18	9.6	7.1	8.5	4.8	3.2	3.9	.0	.0	.0	.0	.0	.0
19	9.1	7.4	8.3	4.6	3.8	4.2	.0	.0	.0	.1	.0	.0
20	8.5	7.4	8.0	6.4	4.1	5.1	.0	.0	.0	.0	.0	.0
21	7.5	5.5	6.5	6.7	4.6	5.6	.0	.0	.0	.6	.0	.2
22	6.7	4.6	5.7	7.7	6.2	6.8	.0	.0	.0	.8	.0	.3
23	7.1	4.3	5.6	6.8	6.1	6.6	.2	.0	.0	1.9	.8	1.3
24	6.4	4.7	5.6	6.5	5.1	5.8	.0	.0	.0	2.2	.5	1.3
25	6.0	5.2	5.6	6.5	5.0	5.7	.0	.0	.0	1.2	.2	.6
26	6.8	4.7	5.6	6.3	5.1	5.7	.1	.0	.0	1.6	.1	.8
27	6.2	4.5	5.5	5.4	3.6	4.4	.4	.0	.1	3.4	1.4	2.3
28	7.0	5.7	6.4	3.8	2.3	3.1	1.6	.1	.9	2.8	1.7	2.2
29	6.6	5.9	6.2	2.9	2.1	2.5	2.6	1.4	1.9	3.2	1.3	2.2
30	7.0	5.1	6.1	2.8	1.4	2.1	2.5	1.5	1.9	3.1	1.2	2.3
31	6.6	5.7	6.1	---	---	---	2.1	1.2	1.6	2.8	1.0	2.0
MONTH	16.2	4.3	10.3	7.7	1.4	4.9	---	---	---	3.4	.0	.9

09095500 COLORADO RIVER NEAR CAMEO, CO--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.5	1.3	2.4	4.3	1.5	3.0	8.1	6.0	7.3	10.0	8.6	9.4
2	3.4	2.0	2.7	3.9	1.7	2.9	7.5	5.7	6.6	9.7	7.4	8.8
3	3.9	2.0	2.9	4.5	1.7	3.2	9.7	6.4	8.1	10.8	7.9	9.4
4	4.0	2.1	3.0	4.9	2.5	3.8	9.3	7.9	8.8	12.5	9.5	11.0
5	4.0	2.4	3.2	4.7	1.6	3.3	7.9	6.2	7.1	13.7	11.3	12.6
6	3.6	1.8	2.8	5.7	2.0	3.9	7.7	5.3	6.4	14.5	12.3	13.5
7	2.8	.7	1.7	6.2	2.6	4.5	8.4	6.0	7.1	14.1	12.5	13.5
8	2.6	.4	1.6	6.8	3.6	5.2	8.6	6.5	7.6	13.4	11.3	12.5
9	2.5	.0	1.3	7.5	4.1	5.8	9.1	7.3	8.1	12.7	10.3	11.8
10	1.6	.0	1.0	8.2	4.4	6.3	8.0	5.6	7.2	12.9	10.3	11.7
11	2.8	.0	1.3	8.7	5.0	6.9	6.1	4.3	5.1	12.7	10.3	11.6
12	2.8	.9	1.9	9.3	5.8	7.6	7.1	3.5	5.3	12.8	10.5	11.7
13	3.2	1.0	2.1	9.2	6.2	7.7	8.2	4.5	6.2	12.3	10.2	11.3
14	3.3	.7	2.1	8.1	5.3	6.8	9.8	5.9	7.8	12.4	10.2	11.4
15	4.5	1.6	3.0	8.5	5.3	7.0	11.5	7.5	9.5	12.6	10.3	11.5
16	4.8	2.2	3.6	9.8	6.7	8.3	12.8	8.9	10.8	12.5	10.6	11.5
17	5.4	2.8	4.1	9.4	7.5	8.5	13.7	9.9	11.7	---	---	---
18	6.1	4.2	4.9	9.7	7.0	8.3	14.1	10.7	12.2	---	---	---
19	5.2	2.8	4.1	10.5	7.3	8.9	13.6	11.5	12.4	---	---	---
20	4.5	3.1	3.8	10.8	7.9	9.3	13.0	11.4	12.2	12.1	---	---
21	4.1	1.5	2.9	10.8	8.7	9.7	12.2	10.5	11.2	11.9	10.3	11.1
22	3.7	1.2	2.6	11.1	8.7	9.8	11.2	9.3	10.3	11.2	10.4	10.7
23	2.9	1.6	2.2	11.5	9.2	10.1	10.1	8.4	9.0	11.4	9.2	10.4
24	3.3	.7	2.0	9.8	6.9	8.9	9.6	8.3	8.9	10.9	10.2	10.5
25	4.2	1.1	2.6	8.6	5.9	7.2	10.5	7.6	8.9	10.6	9.3	10.0
26	4.4	1.3	3.0	9.0	6.3	7.6	11.8	9.1	10.2	10.6	9.0	9.7
27	3.9	2.8	3.2	10.0	7.5	8.6	12.4	9.7	11.0	11.0	8.9	10.0
28	3.5	2.4	2.9	9.2	7.0	8.1	13.0	11.3	12.1	12.1	9.6	10.9
29	---	---	---	10.1	8.2	9.0	12.5	10.7	11.8	12.5	10.7	11.9
30	---	---	---	10.3	7.6	8.9	10.7	8.6	9.8	12.8	10.9	11.9
31	---	---	---	9.2	8.1	8.5	---	---	---	13.7	11.1	12.5
MONTH	6.1	.0	2.7	11.5	1.5	7.0	14.1	3.5	9.0	---	---	---

		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.4	12.3	13.3	16.3	13.6	15.0	20.8	18.3	19.6	20.7	17.7	19.0
2	13.5	11.9	12.8	16.1	13.1	14.6	20.5	18.5	19.7	21.6	19.0	20.2
3	13.1	11.1	12.0	16.9	13.1	15.0	20.7	19.1	19.9	21.6	19.4	20.5
4	13.6	11.7	12.6	17.1	13.4	15.3	19.9	18.9	19.3	20.6	19.4	20.0
5	13.8	11.9	12.8	16.7	13.8	15.5	19.8	17.7	18.7	20.7	18.1	19.5
6	13.7	12.0	12.8	17.1	13.8	15.6	19.1	17.4	18.3	19.4	17.1	18.3
7	12.9	12.1	12.5	17.3	14.3	16.0	18.8	16.6	17.6	18.5	16.0	17.2
8	12.5	11.0	11.8	17.0	14.5	15.9	18.7	16.3	17.6	18.4	16.0	17.2
9	12.2	10.6	11.2	17.2	14.5	15.9	19.3	17.7	18.5	18.7	17.1	17.8
10	12.1	11.2	11.7	17.9	14.8	16.2	19.1	18.3	18.7	20.0	16.9	18.3
11	13.3	11.0	12.1	17.7	15.3	16.1	18.6	16.4	17.4	19.2	17.2	18.2
12	13.3	11.8	12.5	17.0	15.2	16.1	16.7	15.0	15.9	20.4	17.1	18.6
13	13.2	11.6	12.4	18.2	14.9	16.5	16.7	14.9	16.0	18.7	17.0	17.6
14	13.2	12.0	12.5	18.6	15.7	17.3	17.4	15.4	16.4	18.9	15.9	17.3
15	13.8	11.5	12.6	19.2	16.5	17.9	17.9	15.1	16.6	18.0	16.7	17.3
16	13.6	12.0	12.7	19.6	17.2	18.5	18.5	16.6	17.4	17.6	15.8	16.6
17	14.1	12.0	13.0	19.8	17.5	18.8	19.1	17.6	18.3	17.6	15.2	16.4
18	14.4	12.3	13.3	19.6	17.6	18.6	19.5	17.9	18.7	18.3	16.3	17.2
19	15.1	12.8	13.9	18.8	16.7	17.8	19.8	17.9	18.9	18.2	16.7	17.3
20	14.8	13.2	14.1	19.0	16.4	17.6	19.7	17.3	18.5	17.4	15.6	16.5
21	15.2	13.0	14.1	20.2	17.5	18.8	20.0	18.3	19.0	16.2	14.9	15.6
22	15.3	13.2	14.2	20.4	18.4	19.5	19.9	17.7	18.7	15.0	14.0	14.5
23	15.5	13.3	14.4	20.6	18.9	19.8	20.4	18.3	19.2	15.0	13.1	14.1
24	15.6	13.4	14.5	20.7	18.2	19.4	20.4	18.7	19.6	15.4	13.3	14.3
25	15.5	13.2	14.4	21.1	18.7	19.9	20.6	18.8	19.6	15.4	13.7	14.6
26	15.2	13.2	14.3	20.4	18.6	19.6	19.8	18.7	18.3	15.0	14.3	14.8
27	15.5	13.2	14.4	20.6	18.7	19.6	19.2	17.3	18.4	16.8	14.3	15.3
28	16.4	13.5	14.8	19.6	18.7	19.1	19.8	18.0	18.8	16.3	14.6	15.5
29	16.1	13.6	14.9	20.3	18.3	19.2	21.0	18.5	19.5	15.8	14.0	14.9
30	16.3	13.5	14.9	20.0	18.6	19.1	20.9	18.7	19.7	15.7	13.4	14.5
31	---	---	---	20.3	18.2	19.3	19.9	18.5	19.1	---	---	---
MONTH	16.4	10.6	13.3	21.1	13.1	17.5	21.0	14.9	18.4	21.6	13.1	17.0

09105000 PLATEAU CREEK NEAR CAMEO, CO

LOCATION.--Lat 39°11'00", long 108°16'02", in SW1/4SW1/4 sec.18, T.10 S., R.97 W., Mesa County, Hydrologic Unit 14010005, on left bank 300 ft from State Highway 65, 1.15 mi upstream from mouth, and 4.0 mi northeast of Cameo.

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, 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	126	94	96	91	80	214	680	2650	206	133	170
2	117	117	112	96	94	77	223	600	2960	193	122	165
3	142	129	98	228	107	82	240	491	2610	173	118	156
4	126	147	e102	160	93	85	403	527	2370	166	144	188
5	121	138	e109	105	90	74	323	791	2220	154	166	185
6	118	136	e109	e100	89	78	228	1080	1960	147	209	199
7	114	114	108	e92	84	83	208	1300	1670	137	216	207
8	113	111	109	e95	77	89	203	1350	1950	134	177	182
9	112	117	110	e94	83	94	221	1290	1980	130	158	178
10	109	116	118	e98	82	102	291	1200	1790	128	185	173
11	108	112	124	97	86	121	198	1050	1750	121	232	198
12	106	115	121	e93	85	145	164	1010	1380	118	224	200
13	103	118	113	e91	85	169	169	1100	1440	113	243	194
14	109	116	110	e90	79	148	169	1400	1240	107	220	181
15	109	118	85	e89	87	142	184	1180	1110	103	218	173
16	108	132	e85	e89	89	180	215	1290	949	102	196	197
17	111	120	e90	88	107	189	312	1360	841	102	184	184
18	107	132	90	e90	145	170	435	1490	759	97	187	194
19	113	127	e95	e89	113	171	522	1560	716	107	180	201
20	131	135	e100	e89	99	199	575	1440	686	112	175	419
21	120	131	e103	e89	83	232	641	1430	650	106	165	760
22	112	159	e108	e89	76	240	542	1880	585	103	158	590
23	123	242	e109	87	86	259	449	2790	529	110	153	404
24	124	156	e105	87	85	284	431	2610	470	139	146	319
25	133	136	e102	85	77	186	352	2750	407	110	144	278
26	145	130	e102	88	80	172	362	2210	364	107	173	293
27	130	117	e101	109	88	185	382	1740	329	103	205	321
28	145	98	101	93	84	199	565	1540	293	106	175	282
29	166	117	98	91	---	270	738	1510	260	118	165	243
30	139	123	96	87	---	204	691	1750	232	125	157	220
31	134	---	96	87	---	204	---	2060	---	133	165	---
TOTAL	3767	3885	3203	3061	2524	4913	10650	44459	37150	3910	5493	7654
MEAN	122	130	103	98.7	90.1	158	355	1434	1238	126	177	255
MAX	166	242	124	228	145	284	738	2790	2960	206	243	760
MIN	103	98	85	85	76	74	164	491	232	97	118	156
AC-FT	7470	7710	6350	6070	5010	9740	21120	88180	73690	7760	10900	15180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1997, BY WATER YEAR (WY)

MEAN	113	102	86.5	77.3	82.3	106	242	678	530	124	79.2	93.8
MAX	333	207	148	116	148	202	759	1825	2975	796	328	255
(WY)	1942	1987	1942	1972	1958	1986	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1936 - 1997	
ANNUAL TOTAL	60460		130669			
ANNUAL MEAN	165		358		194	
HIGHEST ANNUAL MEAN					542	1983
LOWEST ANNUAL MEAN					48.8	1977
HIGHEST DAILY MEAN	1220	May 17	2960	Jun 2	4100	Jun 25 1983
LOWEST DAILY MEAN	64	Aug 13	74	Mar 5	8.2	Aug 15 1977
ANNUAL SEVEN-DAY MINIMUM	66	Aug 10	80	Mar 1	9.1	Aug 10 1977
INSTANTANEOUS PEAK FLOW			3450	Jun 2	5580	Jun 15 1973
INSTANTANEOUS PEAK STAGE			6.61	Jun 2	[a]7.99	Jun 15 1973
ANNUAL RUNOFF (AC-FT)	119900		259200		140600	
10 PERCENT EXCEEDS	337		1140		427	
50 PERCENT EXCEEDS	114		144		96	
90 PERCENT EXCEEDS	73		89		46	

e-Estimated.
a-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 is good, except for winter period and those above 985 microsiemens, which are fair, and the period Sept. 25-30, which are poor. Interruptions in daily record are due to instrument malfunctions. Daily record of water temperature is good. 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 recorded, 1260 microsiemens, Sept. 20, maximum observed, 1470 microsiemens, Aug. 6; minimum, 163 microsiemens, June 5.
WATER TEMPERATURE: Maximum, 25.7°C, July 17; minimum, 0.0°C on many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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										
25...	1100	128	686	8.5	5.5	12.4	270	52	35	50
NOV										
15...	1045	107	716	8.7	5.0	10.2	270	53	33	52
DEC										
13...	1300	108	699	8.9	4.0	15.1	270	54	32	55
JAN										
30...	1330	87	728	8.9	3.5	15.1	270	56	31	54
FEB										
27...	0945	85	696	8.6	2.5	11.0	260	53	31	51
APR										
04...	1010	381	495	8.4	7.0	9.9	170	43	14	53
MAY										
08...	0915	1440	235	8.1	7.0	10.0	98	27	7.5	9.4
JUN										
13...	1045	1600	251	8.1	12.5	8.9	100	25	9.2	12
JUL										
03...	1130	186	522	8.4	17.0	8.3	200	44	22	31
AUG										
06...	0745	243	1310	8.2	17.5	7.6	180	59	7.4	220
27...	0945	210	629	8.4	16.0	9.6	260	54	31	41
SEP										
24...	0945	305	520	8.3	11.0	10.3	220	49	24	32

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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										
25...	1	4.3	314	70	6.5	0.5	26	433	0.59	149
NOV										
15...	1	4.4	300	78	6.7	0.6	24	432	0.59	125
DEC										
13...	1	4.0	283	84	7.0	0.5	25	431	0.59	126
JAN										
30...	1	4.0	297	86	7.6	0.6	24	441	0.60	104
FEB										
27...	1	4.0	310	86	6.9	0.5	23	441	0.60	101
APR										
04...	2	3.2	212	63	5.6	0.4	14	323	0.44	333
MAY										
08...	0.4	1.9	114	12	1.2	0.1	12	140	0.19	543
JUN										
13...	0.5	1.6	115	14	1.3	0.2	16	148	0.20	639
JUL										
03...	0.9	3.5	240	43	3.6	0.4	22	313	0.43	157
AUG										
06...	7	4.6	280	410	6.9	0.8	16	896	1.22	588
27...	1	5.5	303	54	5.7	0.5	32	405	0.55	230
SEP										
24...	0.9	3.6	250	39	3.8	0.4	25	327	0.44	269

09105000 PLATEAU CREEK NEAR CAMEO, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	673	648	660	710	687	698	718	677	698	680	662	670
2	683	650	669	719	674	701	747	689	717	673	650	663
3	705	642	676	722	669	703	732	690	716	675	480	594
4	691	668	682	738	645	713	760	709	735	644	489	570
5	700	670	683	743	706	726	740	708	723	673	635	655
6	689	666	677	735	679	712	712	681	699	674	617	643
7	682	661	669	740	690	721	694	681	687	659	616	634
8	674	655	663	761	719	735	701	682	690	648	633	638
9	668	646	657	747	710	729	691	679	685	663	645	663
10	671	653	662	738	702	720	697	672	687	674	663	669
11	667	650	657	740	700	719	699	672	687	679	665	672
12	661	640	651	730	686	708	700	679	690	676	657	662
13	659	637	648	719	680	697	700	680	692	669	654	663
14	659	637	649	711	676	696	709	682	696	675	661	668
15	675	650	664	729	688	706	719	685	709	679	664	671
16	677	652	667	692	652	679	771	707	736	688	668	680
17	683	664	673	704	652	684	---	---	---	701	668	683
18	680	656	668	711	684	696	823	763	778	703	663	686
19	676	655	666	710	687	700	841	772	804	694	647	672
20	706	648	681	727	683	707	793	737	767	684	647	665
21	707	683	695	716	683	703	747	694	721	680	650	665
22	710	681	696	724	644	700	698	674	686	687	658	670
23	728	678	705	695	585	643	683	669	678	682	664	672
24	718	684	704	672	656	668	712	680	697	680	659	669
25	714	687	700	694	666	681	724	680	704	680	661	670
26	730	681	699	692	668	683	703	667	686	681	655	667
27	732	691	711	693	669	684	680	669	674	680	537	650
28	721	675	695	732	686	712	687	672	680	681	554	658
29	740	707	721	745	699	722	690	668	679	700	664	682
30	722	689	709	703	675	691	687	669	678	699	654	685
31	716	679	701	---	---	---	684	660	672	725	682	697
MONTH	740	637	679	761	585	701	---	---	---	725	480	661
	FEBRUARY			MARCH			APRIL			MAY		
1	717	667	694	709	655	695	520	486	509	355	329	339
2	704	656	691	707	655	691	585	505	530	368	349	358
3	688	608	665	731	651	690	589	533	549	377	367	370
4	700	659	686	699	661	679	575	479	514	378	348	361
5	714	685	698	717	662	691	580	514	541	352	296	318
6	711	682	699	734	655	695	624	564	583	296	250	265
7	707	674	693	727	637	681	617	585	598	262	233	249
8	720	682	701	708	638	670	609	590	595	260	232	247
9	718	689	701	679	589	653	607	587	598	271	227	250
10	718	682	692	676	592	632	597	557	581	281	238	258
11	700	676	686	661	565	604	598	578	586	283	255	271
12	704	659	683	631	500	555	620	582	604	291	257	274
13	702	660	682	576	470	519	638	585	605	291	219	240
14	700	661	683	576	478	520	633	587	619	220	189	201
15	720	670	685	590	527	554	636	595	615	233	203	217
16	700	661	682	562	506	526	599	548	577	229	198	212
17	705	644	680	540	475	510	550	461	494	217	187	203
18	680	557	625	552	505	526	480	397	426	206	184	194
19	675	574	630	560	522	538	429	364	388	220	175	196
20	696	660	678	555	509	523	396	351	368	234	185	206
21	719	682	700	520	471	485	383	339	356	235	220	225
22	735	665	707	484	460	471	409	369	388	246	217	232
23	744	680	701	483	443	459	419	403	408	232	218	222
24	704	661	685	470	413	437	439	418	427	225	211	217
25	699	654	685	528	452	482	461	439	448	278	223	240
26	716	654	688	534	494	509	462	429	441	288	273	284
27	736	654	699	535	506	517	435	401	417	306	284	296
28	711	683	701	519	482	494	417	354	378	309	295	302
29	---	---	---	507	484	491	365	321	337	309	289	302
30	---	---	---	530	492	504	360	325	339	289	255	270
31	---	---	---	530	492	507	---	---	---	255	201	236
MONTH	744	557	686	734	413	565	638	321	494	378	175	260

09105000 PLATEAU CREEK NEAR CAMEO, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	210	172	195	510	476	493	648	607	634	647	620	637
2	188	168	179	522	491	509	644	610	629	643	604	626
3	198	165	183	526	509	517	647	613	629	647	604	629
4	200	166	186	541	507	526	646	613	632	669	617	651
5	201	163	186	545	518	532	630	609	621	659	615	640
6	207	165	190	559	538	548	989	604	696	732	615	641
7	222	194	211	554	537	547	657	609	631	637	590	617
8	212	192	205	582	550	557	641	602	625	625	592	610
9	226	211	221	605	554	577	656	628	644	627	598	613
10	262	221	238	608	566	587	690	646	665	629	602	615
11	251	218	238	609	564	584	669	593	622	672	609	627
12	266	237	254	628	570	595	619	596	607	628	604	621
13	256	239	246	621	570	595	632	597	614	618	593	604
14	273	244	262	631	587	605	621	589	600	634	617	626
15	283	260	273	630	596	619	606	582	594	648	615	633
16	319	269	289	635	622	628	624	590	605	651	622	640
17	324	302	314	630	613	625	633	593	609	641	620	630
18	332	315	325	647	628	639	644	593	616	651	617	636
19	331	318	324	662	647	652	639	579	610	698	621	638
20	325	308	319	661	622	637	622	577	596	1260	496	693
21	334	311	324	647	614	630	625	589	609	795	482	584
22	343	323	334	638	607	624	643	603	623	552	515	531
23	352	336	345	902	607	657	645	614	629	581	552	566
24	369	347	357	633	601	621	655	627	640	554	499	529
25	387	369	380	639	619	631	655	630	643	559	425	524
26	413	387	405	646	622	634	666	626	647	533	386	457
27	434	407	425	668	623	647	643	618	630	581	466	521
28	444	430	439	652	623	642	648	618	633	573	332	396
29	463	437	455	653	636	646	653	618	637	577	342	479
30	484	457	473	667	638	655	657	624	641	594	433	526
31	---	---	---	665	633	647	650	626	638	---	---	---
MONTH	484	163	293	902	476	600	989	577	627	1260	332	591

TEMPERATURE, WATER (DEG. C) WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.0	9.5	12.5	6.6	3.1	5.1	1.8	.0	.7	3.0	.9	1.8
2	14.6	10.9	12.9	6.5	2.8	4.9	1.6	.0	.8	3.2	.7	1.9
3	14.7	12.6	13.6	5.6	3.9	4.8	.6	.0	.0	3.1	1.9	2.6
4	15.3	10.3	13.0	7.7	5.4	6.3	.0	.0	.0	2.4	.4	1.4
5	15.3	10.2	13.1	7.0	4.9	6.0	.0	.0	.0	1.4	.0	.5
6	15.2	10.3	13.1	6.2	3.9	5.1	2.0	.0	1.0	.6	.0	.1
7	15.2	10.2	13.1	5.0	1.4	3.2	1.7	.0	.6	.0	.0	.0
8	14.8	9.8	12.8	4.6	1.1	3.0	1.2	.0	.4	.0	.0	.0
9	14.9	9.8	12.7	5.4	1.7	3.6	2.0	.0	.7	1.7	.0	.4
10	14.9	9.8	12.6	5.5	2.3	4.1	4.5	1.6	3.1	2.3	1.2	1.8
11	14.6	9.7	12.5	5.2	1.9	3.8	4.7	3.3	4.2	3.2	1.6	2.4
12	14.4	9.8	12.4	5.6	2.1	4.0	4.8	2.6	3.9	2.7	.0	.4
13	14.1	9.5	12.3	6.2	3.1	4.7	5.3	2.8	4.1	.9	.0	.2
14	15.4	11.1	13.1	6.1	3.9	5.2	4.8	1.4	3.0	2.3	.6	1.4
15	13.7	8.8	11.5	5.8	3.7	4.8	1.4	.0	.2	1.8	.0	.9
16	12.0	8.1	9.5	4.4	2.4	3.5	1.6	.0	.7	1.1	.0	.3
17	9.2	5.5	7.6	2.7	1.4	2.1	.6	.0	.0	.0	.0	.0
18	8.7	3.8	6.5	5.9	2.7	4.2	.0	.0	.0	.0	.0	.0
19	8.8	6.1	7.5	5.6	3.2	4.4	.0	.0	.0	.0	.0	.0
20	8.3	5.7	7.1	6.8	3.8	5.2	.0	.0	.0	.0	.0	.0
21	6.4	2.7	4.8	6.4	3.4	5.1	.0	.0	.0	.8	.0	.2
22	6.0	1.7	3.9	8.3	6.2	7.2	.0	.0	.0	1.5	.0	.5
23	7.5	3.3	5.3	7.0	5.3	6.0	.0	.0	.0	2.8	1.0	1.8
24	6.9	3.5	5.2	5.3	2.5	4.0	.0	.0	.0	2.9	.2	1.5
25	6.1	5.0	5.7	5.8	3.3	4.5	.0	.0	.0	1.8	.0	.3
26	7.1	3.9	5.2	5.6	3.9	4.9	.0	.0	.0	3.6	.5	1.8
27	6.4	3.6	5.1	4.9	2.3	3.4	2.3	.0	.9	4.9	2.5	3.5
28	6.7	5.4	6.1	2.5	.0	1.3	3.6	1.9	2.6	2.7	.2	1.6
29	7.0	5.1	6.0	2.9	.9	1.8	3.0	.9	2.1	4.7	1.8	2.9
30	7.9	4.3	6.1	2.8	1.3	2.2	2.9	1.3	2.2	3.7	.4	2.4
31	6.9	4.7	5.9	---	---	---	3.3	1.4	2.5	3.1	.3	2.0
MONTH	15.4	1.7	9.3	8.3	.0	4.3	5.3	.0	1.1	4.9	.0	1.1

09105000 PLATEAU CREEK NEAR CAMEO, CO--Continued

TEMPERATURE, WATER (DEG. C) WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	4.4	1.0	2.7	4.8	.0	2.2	7.3	3.6	5.3	9.5	7.0	8.1
2	3.7	1.5	2.6	4.9	.4	2.7	7.4	1.5	4.5	10.0	4.5	7.2
3	4.9	1.7	3.3	6.2	.7	3.4	10.8	4.2	7.5	11.8	5.3	8.5
4	4.2	1.4	2.9	5.8	1.7	3.8	9.6	5.5	7.1	13.5	7.6	10.6
5	4.1	2.0	3.0	5.2	.0	2.5	5.5	3.0	4.1	12.8	8.9	11.1
6	3.9	1.6	2.9	6.3	.0	3.1	7.8	1.7	4.6	13.0	8.1	10.7
7	3.4	.0	1.5	7.3	.7	4.2	9.4	3.1	6.3	12.7	8.4	10.9
8	2.3	.0	.8	7.2	2.5	4.9	9.5	4.6	7.3	11.9	7.1	9.7
9	2.8	.0	.9	8.2	2.3	5.3	9.9	6.5	8.2	11.9	6.9	9.9
10	1.7	.0	.6	8.6	2.4	5.7	8.6	4.4	5.7	12.0	7.6	10.0
11	3.6	.0	1.2	8.6	2.4	5.9	5.7	.9	3.2	12.6	7.2	9.9
12	3.4	.0	1.6	9.0	2.8	6.2	7.8	.1	4.0	12.9	8.1	10.6
13	3.2	.0	1.7	8.5	2.3	5.8	9.2	1.3	5.3	12.1	7.8	10.3
14	3.4	.0	1.3	7.0	1.3	4.7	10.2	3.0	6.7	12.0	7.2	9.7
15	5.5	.8	3.0	9.3	3.1	6.4	12.3	5.4	9.0	13.3	8.4	10.8
16	5.2	.6	3.3	9.8	4.9	7.6	12.9	6.1	9.9	12.4	8.6	10.8
17	6.2	2.3	4.3	8.9	4.9	6.8	12.6	6.6	10.1	13.4	7.9	10.6
18	5.9	3.6	4.7	9.3	2.6	6.4	12.3	6.7	9.9	13.8	9.0	11.4
19	5.2	.4	3.1	10.4	3.8	7.5	11.7	6.3	9.3	13.8	8.5	11.1
20	4.4	1.3	2.6	10.4	4.6	7.9	11.5	7.2	9.5	12.0	8.5	10.2
21	4.2	.0	1.9	9.3	5.3	7.7	10.9	7.7	8.6	12.0	8.9	10.4
22	3.5	.0	1.6	9.6	4.7	7.6	11.1	5.8	8.3	11.1	8.9	9.7
23	3.0	.1	1.4	10.4	5.3	8.2	9.4	5.9	7.2	12.4	7.5	9.7
24	4.5	.0	2.0	8.8	3.9	5.7	8.7	6.2	7.4	11.5	8.3	9.1
25	4.8	.0	2.4	8.0	1.0	4.7	11.4	4.6	8.1	9.3	6.6	8.0
26	5.2	.0	2.8	9.9	2.7	6.7	11.8	6.6	9.3	9.6	6.0	7.7
27	4.4	2.0	2.7	10.2	4.9	7.8	12.6	5.9	9.2	12.4	7.3	9.5
28	2.5	1.5	2.0	9.8	4.1	7.4	12.4	9.3	11.0	13.1	8.1	10.5
29	---	---	---	9.9	5.5	7.9	11.3	7.9	9.4	12.4	10.3	11.5
30	---	---	---	10.1	3.6	7.2	10.1	5.7	8.0	14.9	9.7	12.4
31	---	---	---	8.6	5.3	6.9	---	---	---	16.2	9.5	12.8
MONTH	6.2	.0	2.3	10.4	.0	5.8	12.9	.1	7.5	16.2	4.5	10.1
	JUNE			JULY			AUGUST			SEPTEMBER		
1	15.4	9.7	12.5	20.5	14.2	17.4	24.6	17.5	21.1	21.5	15.8	18.3
2	13.4	8.8	11.2	20.3	13.1	16.9	23.5	17.8	21.2	22.5	16.4	19.3
3	14.6	8.6	11.6	21.4	13.9	17.6	23.5	19.0	21.2	21.7	16.7	19.4
4	14.7	9.6	12.3	22.0	14.4	18.3	22.2	18.8	20.1	20.0	16.7	18.4
5	14.8	9.3	12.2	22.2	14.8	18.4	22.2	17.0	19.2	21.0	14.8	18.0
6	14.5	9.7	12.4	22.1	14.3	18.4	21.1	17.3	19.3	20.0	15.2	16.8
7	13.7	11.4	12.6	22.6	15.9	19.5	22.0	15.5	18.9	20.0	13.5	16.7
8	12.7	10.0	11.4	21.5	15.8	19.1	22.5	16.4	19.7	20.3	14.2	17.6
9	13.1	9.7	11.2	22.1	14.7	18.5	21.3	17.0	19.3	19.3	14.9	17.2
10	13.2	10.7	12.0	22.9	15.2	19.0	19.9	17.2	18.7	20.6	14.2	17.4
11	16.3	10.3	13.1	20.2	16.5	18.2	18.6	15.0	16.8	18.8	14.6	16.8
12	15.7	11.1	13.5	20.4	15.6	18.2	19.1	14.4	17.0	19.7	14.2	16.9
13	14.7	11.5	13.1	23.5	15.9	19.6	20.4	14.1	17.5	18.3	14.0	15.6
14	14.5	11.7	13.1	24.0	15.6	19.9	20.5	14.7	18.0	18.9	13.2	15.9
15	16.2	10.2	13.2	24.7	16.6	20.8	20.5	14.6	17.9	17.9	14.5	15.9
16	16.4	11.6	14.1	24.1	17.6	21.3	19.6	15.5	17.8	18.0	14.1	15.8
17	18.5	12.8	15.6	25.7	18.3	21.9	21.3	15.8	18.3	18.0	12.7	15.7
18	19.2	13.2	16.3	23.6	18.1	20.7	20.7	15.8	18.5	18.6	15.3	16.8
19	20.0	14.2	17.5	21.4	16.8	19.1	21.8	15.0	18.6	17.8	14.5	16.2
20	19.8	13.6	17.0	23.2	16.5	19.8	22.3	15.7	19.2	17.9	13.8	15.8
21	20.3	14.4	17.4	24.6	17.3	21.0	21.9	16.4	19.2	16.4	11.2	13.7
22	20.1	14.2	17.4	23.8	18.3	21.4	23.1	17.2	20.0	15.1	11.6	13.0
23	20.1	13.9	17.3	24.3	18.9	21.5	23.2	16.7	20.1	15.3	10.2	12.8
24	20.2	13.8	17.2	24.5	17.0	20.7	22.7	17.6	20.4	15.8	10.6	13.3
25	20.4	13.9	17.4	24.4	18.0	21.5	22.7	17.3	20.0	15.9	10.6	13.4
26	19.5	14.1	17.2	23.1	18.1	20.9	20.1	16.9	17.8	15.5	13.3	14.1
27	19.7	14.4	17.4	23.9	18.0	20.6	20.2	14.7	17.6	17.5	13.4	15.1
28	21.0	15.5	18.4	22.6	19.2	20.3	21.6	16.2	18.9	16.2	11.8	14.2
29	20.6	14.5	17.8	23.3	18.1	20.4	21.9	15.9	19.1	15.4	9.9	12.8
30	20.5	14.1	17.5	21.3	17.9	19.4	21.0	15.7	18.8	15.9	10.3	13.3
31	---	---	---	23.4	17.8	20.1	20.4	16.2	17.9	---	---	---
MONTH	21.0	8.6	14.7	25.7	13.1	19.7	24.6	14.1	19.0	22.5	9.9	15.9

09106150 COLORADO RIVER BELOW GRAND VALLEY DIVERSION, NEAR PALISADE, CO

LOCATION.--Lat 39°05'55", long 108°21'16", in NW1/4SE1/4 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. Elevation of gage is 4,670 ft above sea level, from topographic map.

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 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1330	1710	2270	2230	2140	2070	3140	5480	18900	11900	3410	2080
2	1320	1570	2230	2220	2180	2020	3330	5110	23000	e10500	3700	2120
3	1410	1550	2300	2670	2200	2040	3180	4630	24800	e9400	3700	2020
4	1470	1750	2020	2670	2220	2110	3350	4450	24500	8680	3610	1990
5	1510	1820	2070	2380	2140	2060	3470	4880	25300	8240	3870	2100
6	1440	1930	2160	2080	2190	2020	3300	6130	26500	7650	4340	2220
7	1400	1950	2310	1950	2150	2150	2960	8130	25700	7070	4570	2380
8	1350	2250	2230	1900	2070	2220	2670	9690	25600	6550	4520	2370
9	1300	2220	2230	2080	1960	2260	2680	10300	25800	6100	3940	2260
10	1240	2250	2320	2250	1930	2320	3050	11000	24100	5660	3780	2100
11	1270	2300	2500	2330	1960	2430	2750	11500	23500	5380	4470	1920
12	1250	2290	2500	2280	2070	2550	2480	12000	23100	5200	4770	1750
13	1240	2220	2430	2150	2190	2740	2370	12300	23400	4940	5010	1850
14	1250	2240	2340	2090	2150	2550	2260	13100	22000	4770	4930	1710
15	1250	2290	2290	2060	2090	2560	2240	13100	21500	4480	4730	1720
16	1250	2430	2100	2100	2170	2640	2210	14100	19900	4270	4200	1860
17	1330	2410	1890	1960	2140	2860	2320	15100	18800	4000	3760	1910
18	1270	2310	1560	1870	2370	3080	2720	16300	18300	3880	3360	1880
19	1210	2280	1400	1960	2320	3080	3310	17400	20000	3870	3170	1840
20	1300	2370	1520	2110	2220	3090	3870	17600	20800	3750	3040	2720
21	1410	2400	1920	2210	2130	3290	4350	18100	21800	3810	2960	4630
22	1390	2650	2420	2220	2050	3330	4760	18800	21000	3490	3200	4300
23	1290	3190	2570	2200	2000	3520	4520	21300	20000	3450	3090	3690
24	1310	2820	2330	2190	2040	3740	4250	20600	18900	3760	2870	3250
25	1530	2450	2250	2150	2120	3780	4080	19200	17900	3420	2770	2990
26	1750	2540	2170	2110	2030	3480	3820	17900	16600	3020	2840	2840
27	1710	2440	2380	2370	2070	3250	3810	15700	14900	2720	2910	2910
28	1720	2340	2490	2380	2130	3360	4120	13200	13700	2600	2530	3030
29	1940	2240	2440	2130	---	3460	5010	11800	13000	2860	2340	2820
30	1890	2230	2320	2190	---	3460	5680	13700	12500	3000	2240	2570
31	1780	---	2250	2070	---	3210	---	16300	---	3180	2150	---
TOTAL	44110	67440	68210	67560	59430	86730	102060	398900	625800	161600	110780	73830
MEAN	1423	2248	2200	2179	2123	2798	3402	12870	20860	5213	3574	2461
MAX	1940	3190	2570	2670	2370	3780	5680	21300	26500	11900	5010	4630
MIN	1210	1550	1400	1870	1930	2020	2210	4450	12500	2600	2150	1710
AC-FT	87490	133800	135300	134000	117900	172000	202400	791200	1241000	320500	219700	146400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1997, BY WATER YEAR (WY)

MEAN	1006	1821	1695	1658	1746	2063	2352	8400	12190	5163	1759	1229
MAX	1477	2373	2200	2179	2416	2798	4837	14160	20860	16010	3897	2461
(WY)	1996	1996	1997	1997	1996	1997	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1991 - 1997	
ANNUAL TOTAL	1470432		1866450			
ANNUAL MEAN	4018		5114		3425	
HIGHEST ANNUAL MEAN					5114	1997
LOWEST ANNUAL MEAN					1764	1992
HIGHEST DAILY MEAN	20300	May 20	26500	Jun 6	29600	Jun 17 1995
LOWEST DAILY MEAN	558	Aug 15	1210	Oct 19	342	Aug 6 1994
ANNUAL SEVEN-DAY MINIMUM	659	Aug 14	1250	Oct 10	443	Aug 2 1994
INSTANTANEOUS PEAK FLOW			28400	Jun 6	30600	Jun 17 1995
INSTANTANEOUS PEAK STAGE			11.57	Jun 6	12.41	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	2917000		3702000		2481000	
10 PERCENT EXCEEDS	11600		15900		8380	
50 PERCENT EXCEEDS	2290		2500		1750	
90 PERCENT EXCEEDS	1010		1750		762	

e-Estimated.

09107000 TAYLOR RIVER AT TAYLOR PARK, CO

LOCATION (REVISED).--Lat 38°50'59", long 106°34'21", in NW1/4NE1/4 sec.5, T.14 S., R.82 W., Gunnison County, Hydrologic Unit 14020001, on left bank 0.2 mi upstream from Taylor Park Reservoir waterline, 2.7 mi north of Taylor Park, and 21 mi northeast of Almont.

DRAINAGE AREA.--128 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	54	e47	e41	e39	e37	63	99	693	390	161	123
2	56	51	e50	e41	e37	e37	55	88	809	342	146	115
3	79	53	e42	e52	e36	e39	55	89	761	327	138	e112
4	83	59	e44	e48	e36	e40	58	120	866	313	140	e110
5	70	53	e45	e45	e36	e41	52	168	882	302	147	e110
6	64	55	e50	e46	e36	e53	50	211	859	283	195	e115
7	60	42	e48	e41	e37	55	50	247	840	276	224	e105
8	59	e44	e48	e46	e36	54	49	250	913	272	157	e94
9	58	e45	e48	e46	e33	48	51	273	809	251	145	e92
10	57	e47	e50	e45	e35	49	49	292	695	235	204	e96
11	56	e45	e48	e46	e36	51	48	307	690	230	206	e115
12	56	e46	e47	e46	e36	50	45	308	683	213	162	108
13	56	e46	e46	e45	e35	49	45	322	626	205	152	93
14	56	e45	e43	e42	e34	48	47	369	617	197	154	92
15	56	e47	e41	e40	e36	49	52	427	595	193	136	92
16	58	e46	e42	e36	e35	48	65	474	587	189	124	123
17	58	e48	e37	e35	e35	48	88	487	595	187	120	100
18	55	e50	e32	e39	e35	47	109	564	652	190	124	120
19	66	e50	e35	e39	e36	48	124	600	744	196	117	118
20	64	e52	e39	e40	e36	51	150	639	807	197	116	112
21	54	e52	e40	e42	e35	54	150	599	752	185	117	114
22	50	e54	e40	e42	e33	56	114	633	717	180	111	131
23	58	e68	e40	e43	e35	61	106	481	700	200	107	122
24	58	e66	e40	e41	e35	61	95	482	631	205	111	107
25	62	e60	e39	e40	e35	53	86	445	571	175	117	100
26	59	e54	e43	e40	e36	53	97	427	533	168	125	97
27	57	e50	e45	e39	e37	e56	107	341	509	179	115	102
28	61	e50	e44	e38	e36	e57	121	303	477	182	110	93
29	59	e56	e42	e39	---	e60	119	330	445	184	102	89
30	54	e50	e41	e37	---	e56	106	391	423	186	99	86
31	55	---	e42	e38	---	58	---	476	---	196	107	---
TOTAL	1850	1538	1338	1298	997	1567	2406	11242	20481	7028	4289	3186
MEAN	59.7	51.3	43.2	41.9	35.6	50.5	80.2	363	683	227	138	106
MAX	83	68	50	52	39	61	150	639	913	390	224	131
MIN	50	42	32	35	33	37	45	88	423	168	99	86
AC-FT	3670	3050	2650	2570	1980	3110	4770	22300	40620	13940	8510	6320

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1997, BY WATER YEAR (WY)

MEAN	56.6	46.7	40.2	35.1	33.2	38.7	76.6	268	441	208	93.9	68.4
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1988 - 1997	
ANNUAL TOTAL	49008		57220			
ANNUAL MEAN	134		157		117	
HIGHEST ANNUAL MEAN					197	1995
LOWEST ANNUAL MEAN					79.4	1992
HIGHEST DAILY MEAN	e680	May 17	913	Jun 8	1120	Jun 17 1995
LOWEST DAILY MEAN	e,a25	Feb 26	e32	Dec 18	b24	Feb 7 1989
ANNUAL SEVEN-DAY MINIMUM	25	Feb 23	35	Feb 8	25	Feb 23 1996
INSTANTANEOUS PEAK FLOW			1040	Jun 5	1400	Jun 18 1995
INSTANTANEOUS PEAK STAGE			3.60	Jun 5	4.08	Jun 18 1995
ANNUAL RUNOFF (AC-FT)	97210		113500		85030	
10 PERCENT EXCEEDS	422		476		302	
50 PERCENT EXCEEDS	58		60		53	
90 PERCENT EXCEEDS	31		38		33	

e-Estimated.
a-Also occurred Feb 27-29.
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, 102,100 acre-ft, June 28, elevation, 9,327.93 ft; minimum contents, 48,100 acre-ft, May 3, elevation, 9,294.54 ft.

MONTHEND ELEVATION AND CONTENTS, AT 1800, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	9,304.86	62,000	-
Oct. 31	9,300.83	56,300	-5,700
Nov. 30	9,300.30	55,600	-700
Dec. 31	9,299.50	54,500	-1,100
CAL YR 1996	-	-	-19,400
Jan. 31	9,298.51	53,200	-1,300
Feb. 28	9,297.47	51,800	-1,400
Mar. 31	9,296.28	50,300	-1,500
Apr. 30	9,294.74	48,400	-1,900
May 31	9,307.92	66,600	+18,200
June 30	9,327.85	101,900	+35,300
July 31	9,324.25	94,900	-7,000
Aug. 31	9,320.89	88,600	-6,300
Sept. 30	9,314.04	76,400	-12,200
WTR YR 1997	-	-	+14,400

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.--No estimated daily discharges. 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	277	100	102	103	100	99	96	190	442	829	509	288
2	278	100	102	104	99	100	97	190	443	829	508	327
3	278	100	102	104	100	100	98	190	446	762	508	363
4	277	100	103	104	99	99	98	190	448	695	481	362
5	277	100	104	104	99	99	99	189	453	687	460	363
6	277	100	104	104	100	97	100	212	462	680	460	362
7	278	100	104	104	100	97	100	237	465	648	462	364
8	277	100	104	105	100	97	100	238	467	564	459	362
9	277	100	104	107	100	97	100	237	468	503	461	362
10	277	100	104	107	100	97	101	237	463	502	459	361
11	276	100	104	107	99	97	151	238	462	501	459	362
12	276	100	104	106	99	97	197	239	468	505	453	361
13	277	101	102	105	99	97	199	239	493	505	427	359
14	277	102	102	105	99	97	201	240	509	503	372	358
15	236	102	102	105	99	97	203	269	512	503	325	359
16	141	102	102	105	100	97	196	307	512	504	286	358
17	96	101	101	105	100	97	193	349	545	505	272	359
18	85	102	101	104	100	97	193	402	666	505	272	345
19	85	100	102	104	100	97	192	430	733	503	271	336
20	85	101	102	105	100	97	192	435	761	504	271	335
21	85	102	103	104	99	97	194	441	758	504	271	335
22	93	102	102	102	99	98	193	448	768	506	272	335
23	100	102	103	101	99	97	191	452	814	507	272	334
24	100	102	102	102	99	96	191	459	809	516	268	335
25	100	102	102	102	99	96	191	464	809	515	264	333
26	100	102	103	102	99	96	191	471	825	516	273	334
27	100	102	103	101	99	96	191	473	822	514	288	334
28	101	102	102	101	99	96	191	477	823	516	287	334
29	101	102	102	101	---	96	190	464	826	514	288	334
30	100	102	102	102	---	96	190	441	827	514	287	334
31	100	---	102	101	---	96	---	441	---	508	287	---
TOTAL	5687	3031	3181	3216	2784	3012	4819	10289	18299	17367	11232	10388
MEAN	183	101	103	104	99.4	97.2	161	332	610	560	362	346
MAX	278	102	104	107	100	100	203	477	827	829	509	364
MIN	85	100	101	101	99	96	96	189	442	501	264	288
AC-FT	11280	6010	6310	6380	5520	5970	9560	20410	36300	34450	22280	20600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1997, BY WATER YEAR (WY)

MEAN	192	95.9	74.0	62.5	60.7	86.3	151	182	333	402	365	404
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1939 - 1997	
ANNUAL TOTAL	99332		93305			
ANNUAL MEAN	271		256		201	
HIGHEST ANNUAL MEAN					341	1995
LOWEST ANNUAL MEAN					94.8	1941
HIGHEST DAILY MEAN	1290	Jun 17	[a]829	Jul 1	2180	Jul 1 1957
LOWEST DAILY MEAN	[b]85	Oct 18	[b]85	Oct 18	[c].00	May 1 1940
ANNUAL SEVEN-DAY MINIMUM	88	Jan 1	90	Oct 17	.00	May 1 1940
INSTANTANEOUS PEAK FLOW			883	Jun 30	2270	Jul 1 1957
INSTANTANEOUS PEAK STAGE			5.68	Jun 30	7.56	Jul 1 1957
ANNUAL RUNOFF (AC-FT)	197000		185100		145800	
10 PERCENT EXCEEDS	477		507		488	
50 PERCENT EXCEEDS	152		190		107	
90 PERCENT EXCEEDS	100		99		16	

a-Also occurred Jul 2.
b-Also occurred Oct 19-21.
c-Also occurred May 2 to Jul 3, 1940, May 7-22, 1942, May 5-21, 1943.

09110000 TAYLOR RIVER AT ALMONT, CO

LOCATION.--Lat 38°39'52", long 106°50'41", in NW¼SE¼ sec.22, T.51 N., R.1 E., Gunnison County, Hydrologic Unit 14020001, on left bank at Almont, 15 ft downstream from bridge on State Highway 306, and 800 ft upstream from confluence with East River.

DRAINAGE AREA.--477 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	355	159	157	e155	e160	e150	185	355	1320	1260	670	421
2	352	158	159	e155	e160	e150	184	338	1480	1220	665	431
3	358	160	153	e170	e160	e150	189	334	1460	1150	662	500
4	349	160	153	e170	e155	e150	196	351	1580	1020	642	497
5	341	159	154	e160	e155	e145	188	405	1630	1000	622	495
6	335	159	160	e160	e155	e150	184	503	1600	985	641	493
7	325	155	e150	e140	e150	e155	182	631	1620	950	652	490
8	319	164	e150	e145	e140	e155	182	655	1730	872	622	479
9	313	157	e155	e150	e150	e155	184	662	1650	780	610	475
10	308	157	e160	e160	e155	e150	181	699	1510	763	668	474
11	303	155	e160	e165	e160	e150	201	722	1480	759	696	483
12	298	155	e160	e170	e155	e150	278	750	1440	740	664	482
13	293	157	e160	e165	e150	157	284	776	1390	720	638	472
14	288	159	e150	e160	e150	151	283	825	1360	715	602	471
15	274	160	e140	e150	e150	151	293	907	1330	706	517	477
16	222	161	e155	e140	e150	152	295	1000	1280	703	446	513
17	189	160	e120	e150	e150	152	305	1090	1250	697	409	481
18	170	161	e125	e150	e150	152	321	1180	1380	701	407	464
19	169	160	e135	e155	e145	154	333	1240	1580	703	399	438
20	167	160	e155	e160	e150	157	350	1270	1630	695	390	439
21	158	159	e160	e170	e150	161	380	1280	1560	685	388	461
22	156	162	e160	e170	e145	163	370	1410	1510	689	387	465
23	163	161	e160	e170	e155	166	358	1280	1550	726	380	462
24	160	158	e155	e160	e150	168	347	1220	1490	725	377	449
25	163	162	e150	e165	e150	164	333	1170	1440	696	378	443
26	163	158	e160	e170	e150	163	335	1130	1410	684	407	439
27	161	160	e170	e170	e150	167	343	1060	1390	695	425	442
28	163	156	e170	e160	e150	170	374	1010	1350	702	412	435
29	163	159	e160	e160	---	174	374	1000	1310	704	402	430
30	160	160	e160	e155	---	174	354	1020	1280	692	397	429
31	160	---	e155	e160	---	177	---	1110	---	689	407	---
TOTAL	7498	4771	4771	4940	4250	4883	8366	27383	43990	24826	15982	13930
MEAN	242	159	154	159	152	158	279	883	1466	801	516	464
MAX	358	164	170	170	160	177	380	1410	1730	1260	696	513
MIN	156	155	120	140	140	145	181	334	1250	684	377	421
AC-FT	14870	9460	9460	9800	8430	9690	16590	54310	87250	49240	31700	27630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1997, BY WATER YEAR (WY)

MEAN	246	156	121	109	108	134	249	609	936	577	417	396
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1910 - 1997	
ANNUAL TOTAL	151800		165590			
ANNUAL MEAN	415		454		339	
HIGHEST ANNUAL MEAN					550	1995
LOWEST ANNUAL MEAN					155	1977
HIGHEST DAILY MEAN	1890	Jun 17	1730	Jun 8	3600	Jun 9 1920
LOWEST DAILY MEAN	e,a118	Feb 1	e120	Dec 17	b24	Mar 12 1938
ANNUAL SEVEN-DAY MINIMUM	119	Feb 6	140	Dec 14	27	Feb 19 1941
INSTANTANEOUS PEAK FLOW			1960	Jun 8	c3760	Jun 9 1920
INSTANTANEOUS PEAK STAGE			4.21	Jun 8	d5.00	Jun 9 1920
ANNUAL RUNOFF (AC-FT)	301100		328400		245800	
10 PERCENT EXCEEDS	1010		1230		746	
50 PERCENT EXCEEDS	273		288		197	
90 PERCENT EXCEEDS	127		150		82	

e-Estimated.
a-Also occurred Feb 2, 11-12.
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, 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 1996 TO SEPTEMBER 1997

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								
22...	0815	163	137	8.0	3.0	10.5	1.9	<1
JAN								
09...	0900	151	151	8.1	0.0	10.3	--	<1
FEB								
20...	1515	148	150	8.0	0.0	10.5	--	<1
MAR								
26...	1415	161	146	8.1	6.0	9.6	--	<1
MAY								
28...	1250	1020	123	8.0	6.0	10.2	1.1	K2
AUG								
14...	0830	624	111	7.9	9.0	9.3	--	K6

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								
22...	0.03	<0.05	0.030	<0.2	<0.2	0.02	<0.01	<0.01
JAN								
09...	<0.01	0.07	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
FEB								
20...	0.02	<0.05	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
MAR								
26...	<0.01	<0.05	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
MAY								
28...	<0.01	<0.05	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
AUG								
14...	<0.01	0.06	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01

K-Based on non-ideal colony count.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT				
01...	1530	361	127	10.0
23...	1720	168	154	4.0
NOV				
13...	1300	156	150	2.0
MAY				
14...	1400	748	131	6.0
29...	1235	979	127	5.5
JUN				
03...	1040	1390	120	5.5
JUL				
30...	1200	710	111	10.5
SEP				
17...	1515	474	111	12.5

09111500 SLATE RIVER NEAR CRESTED BUTTE, CO

LOCATION.--Lat 38°52'11", long 106°58'08", in NW1/4NE1/4 sec.2, T.14 S., R.86 W., Gunnison County, Hydrologic Unit 14020001, on right bank 400 ft downstream from Washington Gulch, 1 mi east of Crested Butte, and 6.3 mi upstream from mouth.

DRAINAGE AREA.--68.9 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	27	e25	e19	e18	e17	77	254	1240	460	122	54
2	25	28	e23	e23	e18	e17	72	223	1290	391	114	50
3	58	27	e24	e25	e17	e17	73	222	1220	378	104	47
4	45	27	e22	e22	e17	e17	77	272	1270	351	100	47
5	39	27	e24	e19	e17	e17	75	385	1280	338	107	45
6	36	27	e23	e18	e18	e18	80	539	e1200	308	114	45
7	34	31	e24	e16	e17	e18	79	700	e960	291	105	49
8	32	32	e23	e16	e16	e19	73	753	e880	276	92	43
9	30	31	e22	e19	e16	e20	70	787	e800	279	88	42
10	28	27	e22	e19	e18	e21	69	829	e700	263	151	42
11	28	27	e22	e19	e18	e24	71	862	e680	251	161	43
12	26	29	e22	e20	e18	e25	75	880	e660	220	110	54
13	26	27	e21	e19	e18	e26	76	913	e640	217	104	47
14	26	26	e21	e19	e18	e27	78	953	e620	211	103	44
15	26	26	e21	e18	e19	28	85	991	e620	207	97	47
16	26	28	e20	e16	e18	30	109	1050	e660	202	88	72
17	26	31	e18	e15	e18	32	158	1050	e720	197	82	55
18	24	27	e21	e17	e19	34	219	1130	e760	202	79	53
19	26	28	e20	e17	e18	36	269	1150	e780	175	76	51
20	27	27	e17	e18	e18	40	326	1100	e740	176	71	50
21	24	30	e20	e18	e18	48	386	1030	e720	172	68	60
22	26	28	e20	e18	e18	54	327	1020	e700	161	64	87
23	25	e32	e20	e18	e17	64	277	927	e680	186	64	81
24	25	e32	e19	e18	e19	69	239	938	e620	158	62	71
25	27	e31	e19	e18	e20	68	217	827	e610	144	58	65
26	26	e30	e20	e19	e19	70	222	670	580	132	65	61
27	26	e28	e21	e19	e19	73	252	510	596	120	56	84
28	31	e27	e21	e17	e18	77	303	435	579	117	53	71
29	29	e29	e20	e18	---	80	304	539	549	123	50	64
30	29	e27	e19	e17	---	82	266	787	502	122	48	58
31	28	---	e19	e18	---	79	---	1010	---	142	49	---
TOTAL	909	854	653	572	502	1247	5004	23736	23856	6970	2705	1682
MEAN	29.3	28.5	21.1	18.5	17.9	40.2	167	766	795	225	87.3	56.1
MAX	58	32	25	25	20	82	386	1150	1290	460	161	87
MIN	24	26	17	15	16	17	69	222	502	117	48	42
AC-FT	1800	1690	1300	1130	996	2470	9930	47080	47320	13820	5370	3340

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1997, BY WATER YEAR (WY)

MEAN	30.2	23.3	16.2	12.6	11.4	17.1	125	547	628	223	57.3	27.3
MAX	63.9	37.9	25.1	23.5	20.0	40.2	303	778	971	804	237	62.7
(WY)	1942	1942	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1940 - 1997	
ANNUAL TOTAL	60966		68690			
ANNUAL MEAN	167		188		147	
HIGHEST ANNUAL MEAN					214	1995
LOWEST ANNUAL MEAN					120	1994
HIGHEST DAILY MEAN	1220	May 17	1290	Jun 2	1390	Jun 17 1995
LOWEST DAILY MEAN	e16	Mar 7	e15	Jan 17	3.9	Nov 26 1942
ANNUAL SEVEN-DAY MINIMUM	17	Mar 2	17	Feb 3	5.8	Nov 21 1942
INSTANTANEOUS PEAK FLOW			1400	Jun 1	1550	Jun 17 1995
INSTANTANEOUS PEAK STAGE			5.49	Jun 1	5.84	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	120900		136200		106500	
10 PERCENT EXCEEDS	660		700		542	
50 PERCENT EXCEEDS	28		48		26	
90 PERCENT EXCEEDS	20		18		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 1996 TO SEPTEMBER 1997

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)
NOV										
19...	1320	26	157	7.8	3.5	10.6	--	K3	--	--
DEC										
28...	1145	--	--	--	--	--	--	--	--	--
28...	1250	18	--	--	--	--	--	--	63	21
28...	1640	16	193	7.3	0.0	9.4	--	--	77	26
28...	2100	14	197	7.3	0.0	9.4	--	--	80	27
28...	2300	12	197	7.3	0.0	9.4	--	--	79	27
29...	0750	10	161	7.3	0.0	9.5	--	--	67	22
29...	1135	15	163	7.4	0.0	9.8	--	--	61	20
JAN										
08...	0830	16	181	7.5	0.0	9.2	--	K4	--	--
FEB										
18...	1510	19	196	7.6	0.5	10.5	--	58	--	--
MAR										
19...	1245	33	204	7.8	4.5	9.8	--	K17	--	--
JUN										
05...	1100	1210	63	7.1	7.0	9.1	--	K18	--	--
AUG										
08...	1030	95	102	7.5	11.5	7.8	0.0	340	--	--
08...	1100	--	--	--	--	--	--	--	--	--
08...	1130	--	--	--	--	--	--	--	--	--

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) [a]	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) [b]	ALKA-LINITY LAB (MG/L AS CACO3) (90410) [c]	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)
NOV										
19...	--	--	--	--	--	--	--	--	--	--
DEC										
28...	--	--	--	--	--	--	--	--	--	--
28...	2.6	5.8	0.3	0.7	--	--	45	29	1.5	0.3
28...	2.9	5.8	0.3	0.8	52	43	--	46	1.2	0.5
28...	3.0	6.4	0.3	0.9	56	46	--	46	1.7	0.5
28...	2.8	6.4	0.3	0.9	56	46	--	45	1.6	0.5
29...	2.9	5.5	0.3	0.5	63	52	--	32	1.0	0.4
29...	2.7	6.5	0.4	0.9	56	46	--	31	1.6	0.4
JAN										
08...	--	--	--	--	--	--	--	--	--	--
FEB										
18...	--	--	--	--	--	--	--	--	--	--
MAR										
19...	--	--	--	--	--	--	--	--	--	--
JUN										
05...	--	--	--	--	--	--	--	--	--	--
AUG										
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--

K-Based on non-ideal colony count.
a-Field dissolved bicarbonate, determined by incremental titration method.
b-Field total dissolved alkalinity, determined by incremental titration method.
c-Lab total dissolved alkalinity, determined by fixed end-point titration method.

09111500 SLATE RIVER NEAR CRESTED BUTTE, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
NOV										
19...	--	--	--	--	--	0.01	0.21	0.02	--	<0.2
DEC										
28...	--	--	--	--	--	--	--	--	--	--
28...	5.5	110	94	0.15	5.44	<0.01	0.09	0.20	--	0.3
28...	5.7	114	115	0.16	4.92	<0.01	0.09	0.12	--	<0.2
28...	5.6	118	120	0.16	4.40	0.01	0.10	0.26	0.04	0.4
28...	5.4	119	118	0.16	3.89	<0.01	0.09	0.24	0.06	0.3
29...	5.8	100	102	0.14	2.84	<0.01	0.09	0.04	--	<0.2
29...	5.6	100	97	0.14	4.05	<0.01	0.09	0.23	0.07	0.3
JAN										
08...	--	--	--	--	--	<0.01	0.39	0.07	--	0.2
FEB										
18...	--	--	--	--	--	0.03	0.71	0.25	0.05	0.4
MAR										
19...	--	--	--	--	--	<0.01	0.49	0.17	0.13	0.3
JUN										
05...	--	--	--	--	--	<0.01	0.07	<0.01	--	<0.2
AUG										
08...	--	--	--	--	--	<0.01	0.10	0.14	--	<0.2
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70957)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70958)
NOV										
19...	<0.2	0.02	0.01	0.02	--	--	--	--	--	--
DEC										
28...	--	--	--	--	--	--	--	--	17	3.7
28...	0.2	0.02	0.01	0.02	41	43	0.9	0.2	--	--
28...	<0.2	<0.01	<0.01	<0.01	55	67	0.8	0.2	--	--
28...	0.3	<0.01	<0.01	<0.01	65	61	0.9	0.3	--	--
28...	0.3	<0.01	<0.01	<0.01	60	53	0.8	0.3	--	--
29...	<0.2	<0.01	<0.01	<0.01	68	51	0.7	0.2	--	--
29...	0.3	0.01	<0.01	0.02	46	46	1.0	0.2	--	--
JAN										
08...	<0.2	0.03	0.02	0.03	--	--	--	--	--	--
FEB										
18...	0.3	0.12	0.12	0.11	--	--	--	--	--	--
MAR										
19...	0.3	0.10	0.08	0.08	--	--	--	--	--	--
JUN										
05...	<0.2	<0.01	<0.01	<0.01	--	--	--	--	--	--
AUG										
08...	<0.2	<0.01	<0.01	<0.01	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	1.6	<0.1
08...	--	--	--	--	--	--	--	--	1.4	0.1

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT				
01...	0900	24	160	4.5
MAY				
08...	1240	698	102	5.0
29...	1730	610	90	6.5
JUN				
26...	0815	610	65	3.0
JUL				
30...	1645	120	120	12.0
SEP				
18...	0905	58	142	9.5

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	91	e72	74	e56	50	173	620	2280	1360	311	212
2	104	87	e74	75	e56	50	157	537	2750	1220	280	187
3	221	102	e66	77	e56	48	151	519	2660	1180	258	178
4	196	105	e70	74	e56	48	169	617	2770	1100	243	178
5	160	99	e68	83	e56	51	153	854	2790	1060	238	168
6	151	100	e76	73	e54	51	136	1180	2650	987	262	162
7	141	68	e74	e70	e50	53	131	1500	2550	934	288	e175
8	132	81	e76	e76	e45	52	129	1620	2690	864	221	e150
9	125	84	e76	e72	e47	49	128	1730	2390	834	196	e140
10	119	87	e78	74	e50	48	120	1800	2100	806	294	140
11	114	82	e78	75	e54	50	112	1900	2120	796	e360	136
12	110	85	e74	72	e54	52	107	1850	2120	734	e360	170
13	104	90	e74	71	e54	57	108	1740	2020	717	349	144
14	102	91	e72	73	e50	60	114	1830	1950	691	349	136
15	101	94	e58	e70	54	67	139	1910	1890	677	330	135
16	103	90	e62	e58	58	71	196	2040	1880	658	304	219
17	102	78	60	e56	53	79	308	2000	1830	655	285	171
18	91	97	e44	e62	54	74	447	2100	1910	677	280	169
19	108	103	e49	e62	53	81	554	2150	2180	616	269	168
20	113	106	e54	e64	54	96	667	2170	2360	578	253	161
21	88	97	57	66	53	117	825	2050	2210	559	239	182
22	83	118	52	65	53	132	728	2010	2080	514	225	270
23	98	121	53	65	57	156	629	1800	e2000	556	222	249
24	99	91	57	63	53	170	553	1830	e1950	479	221	214
25	107	74	e66	e60	60	150	488	1760	e1750	428	229	192
26	98	e76	70	e58	51	155	516	1630	1690	394	256	182
27	95	e72	75	e56	50	163	570	1410	1630	373	223	235
28	113	e80	77	e52	50	170	701	1280	1590	356	205	204
29	120	e78	78	e56	---	184	724	1330	1520	358	190	179
30	101	e72	78	e54	---	165	638	1610	1430	347	179	163
31	104	---	77	e56	---	165	---	1850	---	359	185	---
TOTAL	3609	2699	2095	2062	1491	2914	10571	49227	63740	21867	8104	5369
MEAN	116	90.0	67.6	66.5	53.3	94.0	352	1588	2125	705	261	179
MAX	221	121	78	83	60	184	825	2170	2790	1360	360	270
MIN	83	68	44	52	45	48	107	519	1430	347	179	135
AC-FT	7160	5350	4160	4090	2960	5780	20970	97640	126400	43370	16070	10650

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1997, BY WATER YEAR (WY)

MEAN	115	88.2	70.1	61.6	58.1	67.5	236	1042	1408	608	223	142
MAX	188	121	96.2	83.2	76.0	111	404	1606	2450	1796	609	271
(WY)	1966	1996	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1964 - 1997	
ANNUAL TOTAL	141823		173748			
ANNUAL MEAN	387		476		344	
HIGHEST ANNUAL MEAN					531	1995
LOWEST ANNUAL MEAN					162	1981
HIGHEST DAILY MEAN	2580	May 17	2790	Jun 5	3610	Jun 17 1995
LOWEST DAILY MEAN	e44	Dec 18	e44	Dec 18	36	Jan 24 1995
ANNUAL SEVEN-DAY MINIMUM	52	Dec 18	50	Feb 26	40	Feb 21 1964
INSTANTANEOUS PEAK FLOW			3190	Jun 4	4350	Jun 18 1995
INSTANTANEOUS PEAK STAGE			4.75	Jun 4	a5.06	Jun 18 1995
ANNUAL RUNOFF (AC-FT)	281300		344600		249200	
10 PERCENT EXCEEDS	1490		1830		1100	
50 PERCENT EXCEEDS	106		140		107	
90 PERCENT EXCEEDS	62		54		55	

e-Estimated.
a-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 (discontinued).
WATER TEMPERATURE: May 1995 to current year.
DISSOLVED OXYGEN: May 1995 to May 1997 (discontinued).

INSTRUMENTATION.--Water-quality monitor with satellite telemetry May 1995 to May 1997. Water temperature sensor and logger since May 1997.

REMARKS.--Upper Colorado River Basin National Water Quality Assessment station (NAWQA). Daily maximum and minimum specific conductance data for Water Year 1995 available in district office. Daily specific-conductance data are good except for the period from early Dec. to mid Mar., which is fair. Daily water-temperature data are fair except for the period Oct. 15 to Nov. 9, which is poor. Missing daily water-temperature data for the period May 29 to July 14 due to data transfer problems with the data logger. Daily dissolved-oxygen data are fair except for the period Dec. 29 to Apr. 30, which is poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 366 microsiemens Dec. 15, 1995; minimum, 125 microsiemens June 22, 1995.
WATER TEMPERATURE: Maximum, 17.8°C Aug. 16, 1996; minimum, 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.--
SPECIFIC CONDUCTANCE: Maximum, 319 microsiemens Nov. 29 and Dec. 1; minimum, 135 microsiemens May 19.
WATER TEMPERATURE: Maximum,17.2°C, Aug. 27, Sep. 2; minimum, 0°C on many days during the winter period.
DISSOLVED OXYGEN: Maximum, 13.5 mg/L Feb. 25 (may have been higher during periods of missing record); minimum 7.5 mg/L Oct. 2, 6, 11 (may have been lower during periods of missing record).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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												
08...	1800	133	279	8.3	11.5	--	8.0	--	--	130	40	6.8
NOV												
20...	1140	102	283	8.3	4.0	--	10.6	0.3	<1	130	40	7.1
DEC												
28...	1110	78	286	8.6	2.0	--	11.1	--	--	140	42	7.4
28...	1505	78	286	8.8	3.0	--	10.9	--	--	140	44	7.4
28...	1935	80	296	8.1	1.5	--	10.1	--	--	150	46	7.4
28...	2245	78	302	8.1	1.0	--	10.4	--	--	130	40	7.4
29...	0630	74	296	7.7	0.0	--	10.4	--	--	140	42	7.6
29...	1025	76	292	8.1	0.5	--	11.7	--	--	130	40	7.5
JAN												
08...	1445	e76	272	8.4	0.0	--	11.0	0.3	<1	140	43	7.5
FEB												
20...	1040	51	291	8.7	1.0	0.30	12.5	--	--	140	42	7.4
MAR												
26...	1400	169	259	8.9	5.5	2.3	9.6	0.3	<1	120	38	6.4
APR												
14...	1500	128	293	8.8	8.0	--	10.0	--	--	140	43	7.6
23...	1400	611	222	8.0	4.5	--	9.4	--	--	99	31	5.3
MAY												
12...	1200	1770	163	7.8	5.5	14	9.4	--	--	77	24	3.9
25...	0950	1760	153	8.2	4.0	--	9.5	--	--	73	23	3.9
29...	0810	1280	176	8.2	5.5	3.8	9.0	1.2	47	87	27	4.7
JUN												
03...	0940	2600	143	8.1	5.0	--	8.9	--	--	66	21	3.4
JUL												
15...	0940	717	204	8.4	8.0	--	8.1	--	--	94	30	4.6
AUG												
13...	1300	374	226	8.3	11.5	0.58	8.0	0.2	120	110	34	5.3
SEP												
09...	1515	130	289	8.1	13.0	--	7.9	--	--	130	42	6.8

e-Estimated.

09112200 EAST RIVER BELOW CEMENT CREEK NEAR CRESTED BUTTE, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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[a] WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE[b] WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA-LINITY[c] 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												
08...	3.3	0.1	0.9	128	--	105	33	1.0	0.2	6.3	172	155
NOV												
20...	3.9	0.1	0.9	128	--	106	35	1.2	0.2	6.2	162	158
DEC												
28...	5.2	0.2	0.9	139	--	114	34	1.4	0.2	6.7	169	167
28...	5.2	0.2	1.1	133	--	109	35	1.4	0.2	6.7	169	167
28...	5.0	0.2	1.1	136	--	112	36	1.4	0.2	7.2	174	172
28...	5.0	0.2	1.0	141	--	116	35	1.4	0.2	6.7	176	167
29...	5.0	0.2	1.0	141	--	116	34	1.4	0.2	6.8	175	168
29...	5.2	0.2	1.0	140	--	114	34	1.4	0.2	6.8	171	166
JAN												
08...	4.7	0.2	1.0	122	7	112	34	1.5	0.2	7.1	171	167
FEB												
20...	5.5	0.2	1.0	124	11	120	35	2.0	0.2	7.0	181	173
MAR												
26...	3.9	0.2	0.8	109	4	95	31	1.8	0.2	6.6	156	147
APR												
14...	4.0	0.1	1.0	132	5	116	34	1.5	0.2	6.5	179	167
23...	3.0	0.1	0.8	89	--	73	22	1.3	0.1	6.3	124	115
MAY												
12...	1.8	0.1	0.6	80	--	66	13	0.5	<0.1	5.6	99	90
25...	1.7	0.1	0.5	82	--	67	10	0.4	<0.1	5.3	94	85
29...	2.0	0.1	0.5	96	--	79	12	0.6	<0.1	5.8	100	100
JUN												
03...	1.4	0.1	0.5	73	--	60	9.2	0.3	<0.1	5.0	88	77
JUL												
15...	1.7	0.1	0.6	86	--	71	17	0.3	<0.1	5.1	120	102
AUG												
13...	2.1	0.1	0.6	100	--	82	21	0.5	<0.1	5.8	134	120
SEP												
09...	3.2	0.1	0.8	126	--	103	33	0.9	0.2	6.5	170	156

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												
08...	0.23	61.8	<0.01	0.06	0.02	<0.2	<0.20	<0.01	0.02	<0.01	0.8	0.3
NOV												
20...	0.22	44.6	0.02	0.08	0.02	<0.2	<0.20	<0.01	<0.01	<0.01	0.8	0.1
DEC												
28...	0.23	35.6	<0.01	0.11	<0.015	<0.2	<0.20	<0.01	<0.01	<0.01	0.6	0.3
28...	0.23	35.6	<0.01	0.09	<0.015	<0.2	<0.20	<0.01	<0.01	<0.01	0.7	0.3
28...	0.24	37.6	<0.01	0.14	<0.015	<0.2	<0.20	<0.01	<0.01	<0.01	0.6	0.2
28...	0.24	37.1	<0.01	0.17	0.03	<0.2	<0.20	<0.01	<0.01	0.01	0.7	0.3
29...	0.24	35.0	<0.01	0.17	0.02	<0.2	<0.20	<0.01	<0.01	<0.01	0.6	0.3
29...	0.23	35.1	<0.01	0.13	0.02	<0.2	<0.20	<0.01	<0.01	<0.01	0.7	0.2
JAN												
08...	0.23	--	0.02	0.16	<0.015	<0.2	<0.20	<0.01	<0.01	<0.01	0.8	0.2
FEB												
20...	0.25	24.9	0.02	0.14	<0.015	<0.2	<0.20	<0.01	<0.01	0.02	0.8	0.1
MAR												
26...	0.21	71.2	<0.01	0.13	<0.015	0.4	<0.20	0.07	<0.01	<0.01	1.4	0.5
APR												
14...	0.24	61.9	<0.01	0.12	<0.015	<0.2	<0.20	0.03	<0.01	<0.01	1.2	0.6
23...	0.17	205	<0.01	0.24	0.03	0.4	0.22	0.05	<0.01	<0.01	2.2	0.6
MAY												
12...	0.13	472	<0.01	0.13	<0.015	<0.2	<0.20	0.04	<0.01	<0.01	2.6	0.6
25...	0.13	447	<0.01	0.07	<0.015	<0.2	<0.20	<0.01	<0.01	<0.01	2.4	0.3
29...	0.14	346	<0.01	0.06	<0.015	<0.2	<0.20	0.01	<0.01	<0.01	2.2	0.2
JUN												
03...	0.12	618	<0.01	0.08	<0.015	<0.2	<0.20	0.07	<0.01	<0.01	2.5	--
JUL												
15...	0.16	232	<0.01	0.07	<0.015	<0.2	<0.20	<0.01	<0.01	<0.01	1.0	0.2
AUG												
13...	0.18	135	<0.01	0.09	<0.015	<0.2	<0.20	<0.01	<0.01	<0.01	0.8	0.3
SEP												
09...	0.23	59.7	<0.01	0.06	<0.015	<0.2	<0.20	0.01	<0.01	<0.01	0.8	0.2

a-Field dissolved bicarbonate, determined by incremental titration method.
b-Field dissolved carbonate, determined by incremental titration method.
c-Field total dissolved alkalinity, determined by incremental titration method.

09112200 EAST RIVER BELOW CEMENT CREEK NEAR CRESTED BUTTE, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT									
08...	--	--	--	--	8	--	--	3	--
NOV									
20...	--	--	--	--	7	--	--	4	--
DEC									
28...	--	--	--	--	7	--	--	2	--
28...	--	--	--	--	5	--	--	2	--
28...	--	--	--	--	4	--	--	3	--
28...	--	--	--	--	4	--	--	3	--
29...	--	--	--	--	4	--	--	2	--
29...	--	--	--	--	6	--	--	2	--
JAN									
08...	--	--	--	--	<3	--	--	<1	--
FEB									
20...	<5	<1	<1	30	4	<1	<10	5	<3
MAR									
26...	11	<1	<1	230	10	<1	40	15	<3
APR									
14...	--	--	--	--	9	--	--	11	--
23...	--	--	--	--	15	--	--	35	--
MAY									
12...	23	<1	2	950	18	<1	60	16	36
25...	--	--	--	--	14	--	--	8	--
29...	15	<1	<1	380	11	<1	30	8	24
JUN									
03...	--	--	--	--	14	--	--	4	--
JUL									
15...	--	--	--	--	14	--	--	7	--
AUG									
13...	6	<1	<1	130	17	<1	10	5	3
SEP									
09...	--	--	--	--	11	--	--	3	--

DATE	TIME	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70957)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70958)
DEC			
28...	1500	7.3	0.60
28...	1510	7.3	0.60
AUG			
07...	1200	0.32	<0.10

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
MAY				
12...	1330	1770	163	5.5
JUN				
26...	1340	1680	166	8.0

09112200 EAST RIVER BELOW CEMENT CREEK NEAR CRESTED BUTTE, CO--Continued
(National Water-Quality Assessment Program station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)[d]	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SAMPLER TYPE (CODE) (84164)[g]
OCT						
08...	1800	133	1	0.36	--	3045
NOV						
20...	1140	102	1	0.28	--	3044
DEC						
28...	1110	79	1	0.21	--	3045
JAN						
08...	1445	e76	1	--	--	3044
FEB						
20...	1040	51	1	0.14	--	3045
MAR						
26...	1400	169	7	3.2	--	3044
APR						
14...	1500	128	4	1.4	--	3044
23...	1400	611	74	122	--	3039
MAY						
12...	1200	1770	45	215	--	3039
12...	1205	1770	43	205	--	3039
12...	1330	1770	55[f]	262	58	3009
25...	0950	1760	17	81	--	3039
29...	0810	1280	12	41	--	3039
JUN						
03...	0940	2600	41	288	--	3039
JUL						
15...	0940	717	5	9.7	--	3039
AUG						
13...	1300	374	2	2.0	--	3044
SEP						
09...	1515	130	2	0.70	--	3044

e-Estimated.
d-Suspended-sediment concentration determined from a subsample split of a composite sample.
f-Suspended-sediment concentration determined from an EWI sample.
g-Sampler type: code 3009 is a D-74 suspended-sediment sampler; 3044 and 3045 are DH-81 water-quality and suspended-sediment samplers; 3039 is a D-77TM water-quality sampler.

09112200 EAST RIVER BELOW CEMENT CREEK NEAR CRESTED BUTTE, CO--Continued
(National Water-Quality Assessment Program station)

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	301	294	298	298	278	286	319	288	303	301	279	293
2	302	293	298	300	280	288	298	288	294	303	278	294
3	296	262	276	310	283	291	309	283	298	300	285	294
4	275	266	270	295	285	290	307	286	297	307	284	293
5	281	275	278	301	285	292	309	290	299	309	278	299
6	294	278	283	292	279	284	298	282	290	309	284	299
7	284	274	279	---	---	---	299	280	290	309	277	299
8	---	---	---	---	---	---	295	279	289	309	275	297
9	---	272	---	298	284	291	299	280	291	298	269	281
10	280	273	277	301	281	289	297	282	289	293	281	288
11	282	276	279	300	277	290	291	278	285	293	279	287
12	285	278	282	300	284	290	292	281	286	292	279	286
13	286	279	283	297	272	286	297	284	289	292	280	287
14	287	279	284	297	270	284	302	285	292	294	280	288
15	292	281	285	289	280	283	310	290	302	293	268	280
16	289	282	286	285	274	278	310	286	297	305	264	290
17	295	280	284	289	275	283	311	287	299	299	---	---
18	302	282	290	286	273	280	311	288	303	299	268	290
19	301	286	289	287	271	280	309	286	299	297	---	---
20	286	275	281	283	273	276	304	283	297	296	279	289
21	303	282	287	287	272	277	298	287	293	296	280	290
22	306	278	296	284	270	275	293	286	289	295	281	289
23	305	286	293	276	267	271	294	283	290	294	280	288
24	301	280	290	289	273	279	300	282	293	295	281	289
25	295	279	284	299	276	284	301	279	294	295	276	286
26	292	279	284	297	269	286	296	279	288	296	278	289
27	295	281	287	291	276	285	291	284	287	299	282	292
28	291	270	282	313	286	297	294	282	288	309	269	294
29	283	265	272	319	276	299	300	279	291	298	281	282
30	296	276	283	299	280	291	299	278	293	---	---	---
31	296	276	283	---	---	---	298	281	292	297	268	281
MONTH	---	---	---	---	---	---	319	278	293	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	297	278	290	312	273	298	253	244	248	226	215	220
2	299	271	291	311	265	298	262	250	256	235	224	229
3	299	283	292	307	280	296	264	251	257	237	232	234
4	299	278	291	303	280	294	266	250	257	233	218	228
5	299	279	292	307	264	294	268	252	258	218	194	210
6	299	279	290	315	267	300	273	251	262	194	173	189
7	311	272	292	316	272	301	275	244	264	178	161	172
8	317	264	300	315	269	298	269	257	264	177	160	167
9	313	269	300	307	278	297	268	262	265	174	159	165
10	311	268	297	307	273	296	274	264	269	170	155	161
11	303	277	291	309	275	297	277	270	273	168	152	159
12	302	272	289	307	278	297	279	267	272	165	151	157
13	301	280	293	304	273	294	283	265	273	165	150	156
14	305	267	289	299	269	289	281	260	272	161	147	153
15	306	284	296	295	276	287	274	264	269	158	145	150
16	303	269	287	284	265	278	267	255	261	152	141	145
17	304	279	296	282	263	274	256	241	246	152	140	145
18	304	281	294	289	262	277	243	228	233	147	137	141
19	306	266	290	284	257	275	232	221	227	150	135	140
20	307	275	295	274	258	267	224	195	216	148	137	142
21	306	278	297	267	245	257	197	192	194	153	146	149
22	313	262	298	264	238	251	212	193	203	154	145	149
23	313	282	300	255	229	243	219	207	213	159	151	154
24	304	282	296	250	230	239	228	215	220	153	146	149
25	304	274	295	257	233	244	235	224	229	158	150	154
26	310	272	298	256	236	247	232	227	229	172	156	164
27	305	282	297	257	239	249	229	221	226	180	170	176
28	303	279	293	259	242	249	221	212	214	184	178	181
29	---	---	---	247	238	244	214	209	211	---	---	---
30	---	---	---	260	242	250	224	213	219	---	---	---
31	---	---	---	257	243	249	---	---	---	---	---	---
MONTH	317	262	294	316	229	275	283	192	243	---	---	---

09112200 EAST RIVER BELOW CEMENT CREEK NEAR CRESTED BUTTE, CO--Continued
(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	11.8	4.9	8.2	7.1	1.8	4.0	1.0	.0	.1	2.0	.0	.7
2	12.0	5.4	8.8	7.9	1.8	4.3	1.3	.0	.2	2.1	.0	.7
3	9.8	7.4	8.1	5.6	2.8	3.9	1.0	.0	.1	2.0	.4	1.1
4	10.0	5.8	7.8	7.9	3.6	5.3	.9	.0	.2	2.9	.0	1.2
5	12.0	5.3	8.5	5.9	3.1	4.5	.4	.0	.1	.4	.0	.1
6	11.8	5.5	8.7	5.5	2.7	4.0	1.3	.0	.5	1.3	.0	.4
7	11.8	5.4	8.5	5.7	1.6	2.9	2.0	.0	.5	.0	.0	.0
8	11.8	5.1	8.6	6.4	1.6	3.1	1.6	.0	.3	.3	.0	.1
9	12.0	5.3	8.6	---	1.4	---	1.4	.0	.3	1.4	.1	.5
10	11.8	5.2	8.5	5.2	.0	1.9	2.7	.0	.9	2.4	.5	1.1
11	11.6	5.0	8.3	5.2	.0	1.8	3.0	.5	1.2	2.7	.6	1.2
12	11.5	4.8	8.1	5.6	.0	2.1	3.3	.2	1.4	2.4	.3	1.0
13	11.2	4.7	8.0	5.1	.4	2.4	2.7	.0	.8	3.1	.2	1.4
14	10.6	5.4	7.7	4.0	.7	2.3	1.5	.0	.3	2.3	.1	.9
15	10.3	3.9	7.3	2.7	1.6	2.2	.0	.0	.0	1.5	.1	.4
16	8.7	5.6	7.1	2.9	.1	1.2	.4	.0	.1	.1	.1	.1
17	8.6	3.5	5.9	1.2	.0	.4	.0	.0	.0	.1	.1	.1
18	9.6	2.5	6.0	3.0	.2	1.4	.0	.0	.0	.5	.1	.1
19	8.5	5.1	6.8	4.4	.2	1.8	.0	.0	.0	1.5	.1	.4
20	8.0	4.6	5.8	4.8	.9	2.7	.2	.0	.0	1.6	.1	.5
21	6.1	2.3	3.8	5.1	.0	2.0	.8	.1	.5	2.4	.4	1.1
22	7.3	1.7	3.7	3.9	1.8	2.8	1.0	.1	.6	2.8	.4	1.1
23	7.8	2.2	4.8	4.9	1.7	2.8	1.1	.4	.6	2.1	.6	1.1
24	8.2	2.6	5.3	3.5	.0	1.0	1.4	.0	.4	2.9	.1	1.0
25	6.8	3.9	5.4	3.5	.0	1.0	.5	.0	.1	.5	.1	.1
26	7.0	3.2	5.0	2.6	.0	.7	2.7	.2	1.2	2.4	.1	1.2
27	7.5	3.5	5.3	2.8	.0	.7	2.2	.5	1.4	4.3	.2	1.8
28	6.7	4.1	5.5	2.1	.0	.3	3.3	.5	1.5	1.1	.1	.3
29	6.8	2.6	4.2	1.2	.0	.3	2.1	.0	.7	3.1	.1	1.0
30	7.4	2.2	4.2	2.3	.0	.5	1.8	.0	.6	1.6	.1	.4
31	6.9	2.3	4.3	---	---	---	3.1	.1	1.2	2.0	.1	.7
MONTH	12.0	1.7	6.7	---	.0	---	3.3	.0	.5	4.3	.0	.7

		FEBRUARY			MARCH			APRIL			MAY	
1	3.8	.1	1.2	4.2	.1	1.2	7.2	1.3	3.9	5.4	.9	3.3
2	2.3	.1	.8	4.1	.1	1.1	4.8	1.5	3.1	7.8	.0	3.9
3	2.7	.3	1.1	4.6	.1	1.7	8.1	.6	4.1	9.1	1.3	5.2
4	3.6	.1	1.2	5.0	.1	1.7	6.2	2.4	4.2	9.2	1.8	5.8
5	4.1	.4	1.6	4.0	.1	1.0	4.6	.8	2.3	9.0	1.8	5.6
6	4.9	.7	1.8	3.9	.1	1.0	4.4	.0	2.0	9.0	1.5	4.9
7	2.7	.1	.8	4.7	.1	1.3	6.2	.0	2.6	8.3	1.1	4.3
8	1.0	.1	.2	4.6	.1	1.5	6.5	.8	3.5	8.6	.8	4.2
9	1.0	.1	.2	6.6	.1	2.2	7.1	2.4	4.4	8.9	.9	4.6
10	.8	.1	.2	6.5	.1	2.1	5.4	2.4	3.6	9.1	1.1	4.9
11	2.1	.1	.5	6.6	.1	2.2	5.6	1.0	3.1	9.0	.8	4.5
12	2.4	.1	.7	6.9	.3	2.5	7.2	.0	3.1	9.2	1.7	4.4
13	3.7	.1	1.4	6.9	.2	2.5	7.6	.0	3.2	9.3	1.1	4.9
14	2.0	.1	.5	5.4	.3	2.2	8.3	.0	4.1	9.0	1.4	4.9
15	5.2	.1	1.7	7.4	1.3	3.4	9.3	2.9	5.9	9.9	1.7	5.4
16	3.8	.1	1.2	7.7	.8	3.1	9.9	1.7	5.7	8.6	1.8	5.0
17	3.9	.1	1.4	6.0	.8	2.6	9.3	1.1	5.2	9.6	1.7	5.3
18	5.4	1.0	2.3	7.2	.2	2.7	8.2	.7	4.2	9.6	2.5	5.6
19	4.2	.1	1.2	7.3	.4	2.8	6.7	.3	3.4	10.4	2.3	5.8
20	2.7	.0	.9	6.9	.5	2.8	6.9	.7	3.7	6.7	2.1	4.6
21	4.8	.1	1.5	6.0	.3	2.0	3.8	1.1	2.3	6.6	3.2	4.8
22	2.2	.1	.5	5.6	.2	1.8	7.3	.3	3.9	6.1	3.4	4.5
23	1.4	.1	.6	5.5	.2	1.8	4.8	.8	3.1	9.7	2.4	5.9
24	4.0	.1	1.4	2.8	.3	1.1	4.7	1.4	2.7	6.9	4.1	5.6
25	3.5	.1	1.2	4.8	.0	1.6	8.1	.0	4.0	6.8	2.9	4.7
26	3.6	.1	1.1	5.7	.0	2.2	8.7	1.5	5.1	7.7	2.2	4.9
27	4.3	.2	1.4	6.4	.6	3.2	9.1	.7	4.9	9.3	3.3	6.2
28	2.5	.3	1.2	7.5	.4	3.8	6.3	2.6	4.6	9.3	3.8	6.4
29	---	---	---	6.7	1.7	4.0	4.9	2.2	3.4	---	5.4	---
30	---	---	---	6.8	.0	2.9	7.6	.4	3.9	---	---	---
31	---	---	---	6.6	.1	3.3	---	---	---	---	---	---
MONTH	5.4	.0	1.1	7.7	.0	2.2	9.9	.0	3.8	---	---	---

09112200 EAST RIVER BELOW CEMENT CREEK NEAR CRESTED BUTTE, CO--Continued
(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	16.6	10.5	13.4	14.8	11.3	12.8
2	---	---	---	---	---	---	15.5	11.1	13.4	17.2	10.2	13.4
3	---	---	---	---	---	---	16.7	11.7	13.9	17.0	11.0	13.8
4	---	---	---	---	---	---	14.4	11.6	13.0	15.8	11.0	13.2
5	---	---	---	---	---	---	14.5	11.3	12.4	15.3	9.2	12.2
6	---	---	---	---	---	---	12.4	10.2	11.3	13.1	9.6	11.5
7	---	---	---	---	---	---	15.2	9.6	12.2	15.0	8.0	11.2
8	---	---	---	---	---	---	16.7	9.7	13.0	15.9	8.5	12.0
9	---	---	---	---	---	---	13.4	10.5	12.3	13.6	9.1	11.7
10	---	---	---	---	---	---	13.1	10.6	11.6	14.5	8.8	11.8
11	---	---	---	---	---	---	12.4	8.6	10.3	14.2	9.6	12.0
12	---	---	---	---	---	---	13.9	7.7	10.7	15.5	10.0	12.5
13	---	---	---	---	---	---	13.4	8.8	11.1	14.1	8.8	11.6
14	---	---	---	---	---	---	15.2	8.8	11.3	13.9	8.9	11.3
15	---	---	---	15.2	8.9	11.5	15.6	8.8	12.2	13.8	8.6	10.9
16	---	---	---	13.6	8.8	11.5	15.3	10.0	12.5	13.9	9.7	11.6
17	---	---	---	14.2	8.8	11.6	15.8	9.4	12.5	14.7	8.6	11.5
18	---	---	---	12.5	8.5	10.7	16.4	11.4	13.4	14.4	10.8	12.3
19	---	---	---	13.6	8.6	10.9	15.8	9.6	12.5	14.2	10.2	11.9
20	---	---	---	13.4	9.6	11.9	14.8	9.7	12.5	15.0	9.6	11.8
21	---	---	---	14.1	9.4	11.9	16.6	9.7	12.9	12.2	9.9	10.9
22	---	---	---	15.2	9.6	12.1	17.0	11.0	13.7	12.0	8.5	9.7
23	---	---	---	14.2	10.3	12.4	15.2	10.3	13.0	11.1	6.0	8.7
24	---	---	---	16.1	9.7	13.0	16.1	9.7	12.9	13.0	6.1	9.5
25	---	---	---	15.2	9.9	12.7	16.6	10.8	13.2	13.6	7.1	10.4
26	---	---	---	14.2	10.3	12.2	15.5	11.1	13.2	12.0	9.6	10.8
27	---	---	---	14.1	10.8	12.2	17.2	10.3	13.5	14.7	9.6	11.7
28	---	---	---	14.4	10.6	12.4	16.9	11.0	13.8	13.8	7.9	10.7
29	---	---	---	13.3	10.8	12.1	16.3	10.5	13.3	13.3	6.8	9.9
30	---	---	---	13.9	11.1	12.4	16.7	10.2	13.0	13.6	6.8	10.0
31	---	---	---	14.2	10.8	12.2	14.5	10.0	12.2	---	---	---
MONTH	---	---	---	---	---	---	17.2	7.7	12.6	17.2	6.0	11.4

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.2	7.6	8.7	10.9	8.9	9.9	11.6	9.4	10.1	11.9	8.9	10.2
2	9.9	7.5	8.6	10.8	8.4	9.7	11.4	9.3	10.0	11.5	8.2	9.9
3	9.1	7.9	8.7	10.3	9.0	9.7	11.3	9.3	9.8	11.9	9.7	10.6
4	9.9	8.1	8.9	10.0	8.0	9.0	11.5	9.3	10.2	11.9	8.9	10.6
5	9.9	7.6	8.7	10.1	8.6	9.3	11.2	9.4	10.1	11.8	9.7	10.6
6	9.9	7.5	8.6	10.0	9.0	9.4	11.2	9.8	10.4	12.2	9.9	10.7
7	9.9	7.6	8.7	10.5	9.0	9.8	11.9	9.4	10.3	11.5	10.0	10.5
8	10.0	8.1	8.9	10.3	8.7	9.6	11.5	9.4	10.1	12.5	10.4	11.2
9	9.5	7.7	8.7	10.5	9.3	9.7	12.2	9.6	10.4	12.7	10.4	11.3
10	10.0	7.8	8.8	11.6	9.1	10.3	12.6	9.4	10.8	12.1	10.1	10.9
11	10.1	7.5	8.7	11.7	9.5	10.6	12.2	9.8	10.8	12.5	10.3	10.9
12	10.0	7.7	8.8	11.7	9.7	10.5	11.9	10.4	10.9	12.2	10.5	11.1
13	10.0	7.8	8.8	11.6	9.6	10.5	12.0	9.7	10.7	11.9	10.2	10.9
14	9.7	8.0	8.8	11.5	9.1	10.2	12.3	9.5	10.6	---	---	---
15	10.2	7.7	8.9	10.9	9.0	10.0	11.9	10.2	10.8	---	---	---
16	10.3	8.7	9.4	11.4	9.2	10.1	11.4	9.8	10.4	---	---	---
17	11.4	8.9	10.1	11.8	8.8	10.2	10.9	9.6	10.0	---	---	---
18	11.8	8.2	9.9	11.0	9.2	9.8	10.8	9.4	9.9	---	---	---
19	10.2	8.4	9.3	11.1	8.7	9.7	10.8	8.9	9.7	---	---	---
20	10.6	9.0	9.8	11.0	9.0	9.9	10.5	9.3	9.6	---	---	---
21	11.8	9.9	10.9	11.4	9.8	10.2	10.9	9.3	10.0	---	---	---
22	11.8	9.2	10.6	10.8	9.4	9.9	10.6	9.1	9.8	---	---	---
23	11.5	9.1	10.2	10.9	9.6	10.1	11.1	9.4	10.0	---	---	---
24	11.2	8.6	9.8	11.6	9.6	10.3	11.1	9.0	9.7	---	---	---
25	10.4	8.8	9.5	11.4	9.6	10.3	10.4	9.0	9.4	---	---	---
26	10.8	8.9	9.7	11.7	9.5	10.3	10.7	9.1	9.8	---	---	---
27	10.6	8.7	9.7	11.6	9.5	10.3	11.1	9.5	9.9	---	---	---
28	9.9	8.6	9.4	11.6	9.3	10.0	11.5	9.3	10.3	---	---	---
29	11.0	9.0	10.0	11.4	9.3	10.2	11.5	8.6	10.4	---	---	---
30	11.2	8.9	10.0	11.4	9.5	10.1	12.3	8.9	10.3	---	---	---
31	10.9	8.7	9.9	---	---	---	11.9	9.3	10.3	---	---	---
MONTH	11.8	7.5	9.3	11.8	8.0	10.0	12.6	8.6	10.2	---	---	---

09112200 EAST RIVER BELOW CEMENT CREEK NEAR CRESTED BUTTE, CO--Continued
(National Water-Quality Assessment Program station)

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX		
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	10.6	8.6	9.6	10.9	9.3	9.9
2	---	---	---	---	---	---	10.6	9.0	9.8	11.0	8.9	9.9
3	---	---	---	---	---	---	10.8	8.2	9.5	10.8	8.5	9.6
4	12.9	10.3	11.4	---	---	---	10.1	8.5	9.1	10.6	8.5	9.5
5	12.7	10.2	11.2	---	---	---	11.3	9.2	10.2	10.6	8.4	9.5
6	12.7	10.3	11.1	---	---	---	---	---	---	10.5	8.4	9.6
7	12.9	10.4	11.5	---	---	---	11.6	8.5	10.1	10.6	8.7	9.7
8	---	---	---	---	---	---	10.6	8.3	9.3	10.8	8.6	9.8
9	---	---	---	---	---	---	10.5	8.1	9.2	10.7	8.5	9.7
10	13.2	10.5	11.9	---	---	---	10.7	8.3	9.4	10.7	8.6	9.7
11	12.4	10.5	11.3	---	---	---	11.9	9.1	10.2	10.7	8.5	9.7
12	12.5	10.1	11.1	---	---	---	10.7	8.3	9.7	10.4	8.5	9.5
13	12.2	10.1	10.9	---	---	---	10.2	7.9	9.0	10.5	8.4	9.5
14	---	---	---	---	---	---	10.1	8.2	9.3	10.5	8.4	9.4
15	---	---	---	---	---	---	10.9	8.7	9.7	10.3	8.2	9.3
16	---	---	---	---	---	---	11.2	8.5	9.7	10.2	8.4	9.3
17	---	---	---	---	---	---	11.2	8.7	9.8	10.2	8.0	9.2
18	---	---	---	---	---	---	11.0	8.9	10.0	9.9	8.1	9.0
19	---	---	---	---	---	---	10.9	9.0	10.0	9.9	7.9	9.0
20	---	---	---	---	---	---	10.8	9.0	10.0	10.0	8.7	9.3
21	---	---	---	---	---	---	10.6	9.9	10.3	9.9	8.5	9.2
22	13.2	10.7	11.5	---	---	---	11.0	9.1	10.1	9.6	8.8	9.2
23	12.9	10.5	11.4	---	---	---	10.8	9.4	10.1	10.5	8.0	8.9
24	13.1	10.5	11.4	---	---	---	10.5	9.7	10.1	9.9	8.5	8.8
25	13.5	10.3	11.5	---	---	---	11.1	8.8	9.9	10.4	8.5	9.1
26	13.0	10.3	11.2	---	---	---	10.7	8.8	9.6	10.6	8.5	9.1
27	12.8	10.1	11.3	11.3	9.0	10.0	10.9	8.5	9.7	9.5	8.0	8.7
28	13.2	10.5	11.5	11.2	8.7	9.8	10.2	9.2	9.6	9.3	7.8	8.6
29	---	---	---	10.9	8.9	9.7	10.4	9.5	9.9	---	---	---
30	---	---	---	11.4	8.8	10.0	11.0	8.9	10.0	---	---	---
31	---	---	---	11.1	8.6	9.7	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	105	e60	e58	e55	57	160	e560	2380	1140	383	193
2	125	99	e63	e60	e56	57	152	e520	2810	993	359	181
3	183	107	e54	e66	e55	59	146	e620	2600	948	343	174
4	193	113	e56	e68	e54	58	156	e780	2800	859	333	173
5	162	104	e54	e65	e53	56	150	e940	2940	835	331	167
6	155	106	e65	e54	e54	54	138	966	2840	778	345	162
7	155	86	e64	e48	e52	58	131	1300	2760	731	387	174
8	150	90	e64	e52	e45	58	135	1430	3010	678	336	159
9	143	99	e65	e56	e47	59	135	1560	2700	644	321	152
10	137	96	e66	e61	e50	59	131	1690	2220	626	389	154
11	127	92	e65	e63	e56	60	123	1830	2180	612	474	152
12	121	93	e64	e64	e56	62	115	1910	2140	563	367	169
13	116	97	e63	e65	e55	64	116	1940	2040	546	341	162
14	111	98	e60	e64	e53	66	121	2060	1930	527	329	157
15	107	101	e46	e58	e59	70	136	2170	1820	512	332	154
16	109	98	e52	e47	e58	72	163	2340	1790	509	326	203
17	111	91	e42	e46	e57	78	220	2330	1700	513	323	183
18	101	102	e31	e47	e57	78	e400	2500	1760	548	313	174
19	113	108	e42	e52	58	79	e580	2520	2120	519	304	175
20	115	110	e47	e54	59	91	e800	2550	2330	487	291	173
21	101	102	e54	e54	58	107	e720	2310	2150	491	280	176
22	94	116	e55	e57	54	119	e630	2330	1970	469	264	237
23	109	119	e56	e58	60	136	e560	1980	1920	503	255	229
24	112	100	e55	e55	57	146	e470	1970	1770	464	253	201
25	119	99	e54	e54	59	132	e490	1740	1610	436	244	194
26	112	98	e57	e58	58	136	e600	1560	1490	411	240	185
27	107	105	e62	e58	60	146	e660	1300	1410	398	205	214
28	116	77	e60	e53	60	150	e700	1130	1360	392	196	202
29	126	e80	e59	e55	---	161	e620	1140	1300	396	185	185
30	111	e68	e57	e52	---	147	e580	1410	1210	397	175	172
31	114	---	e56	e53	---	151	---	1760	---	409	178	---
TOTAL	3885	2959	1748	1755	1555	2826	10238	51146	63060	18334	9402	5386
MEAN	125	98.6	56.4	56.6	55.5	91.2	341	1650	2102	591	303	180
MAX	193	119	66	68	60	161	800	2550	3010	1140	474	237
MIN	94	68	31	46	45	54	115	520	1210	392	175	152
AC-FT	7710	5870	3470	3480	3080	5610	20310	101400	125100	36370	18650	10680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1997, BY WATER YEAR (WY)

MEAN	117	95.5	73.2	62.2	59.5	67.8	249	1034	1396	573	237	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1911 - 1997	
ANNUAL TOTAL	145798		172294			
ANNUAL MEAN	398		472		342	
HIGHEST ANNUAL MEAN					574	1995
LOWEST ANNUAL MEAN					104	1977
HIGHEST DAILY MEAN	2770	May 17	3010	Jun 8	5000	Jun 12 1918
LOWEST DAILY MEAN	e31	Dec 18	e31	Dec 18	19	Aug 13 1913
ANNUAL SEVEN-DAY MINIMUM	45	Dec 15	45	Dec 15	21	Jan 15 1940
INSTANTANEOUS PEAK FLOW			3190	Jun 2	a6500	Jun 15 1921
INSTANTANEOUS PEAK STAGE			7.23	Jun 2	b6.60	Jun 15 1921
ANNUAL RUNOFF (AC-FT)	289200		341700		247700	
10 PERCENT EXCEEDS	1460		1760		1070	
50 PERCENT EXCEEDS	116		146		108	
90 PERCENT EXCEEDS	68		55		55	

e-Estimated.
a-Site and datum then in use, from rating curve extended above 3000 ft^3/s.
b-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 1996 TO SEPTEMBER 1997

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)
NOV										
20...	1430	105	281	8.7	5.5	0.4	11.0	0.2	<1	140
JAN										
09...	1015	70	323	8.3	0.0	--	12.6	--	<1	--
FEB										
20...	0940	58	314	8.3	0.0	--	11.8	--	<1	--
MAR										
26...	1100	118	270	8.5	5.5	1.2	10.2	--	<1	120
MAY										
28...	1415	1120	205	7.8	9.5	2.7	9.1	1.0	K8	100
AUG										
14...	1030	329	276	8.2	10.5	0.5	9.2	0.2	44	140

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	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...	44	7.4	0.03	0.07	0.04	<0.2	<0.2	<0.01	<0.01	<0.01
JAN										
09...	--	--	0.01	0.20	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01
FEB										
20...	--	--	0.01	0.12	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01
MAR										
26...	38	6.7	<0.01	0.14	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01
MAY										
28...	31	5.3	<0.01	0.10	<0.01	<0.2	<0.2	<0.01	<0.01	<0.01
AUG										
14...	45	6.9	<0.01	0.10	<0.01	<0.2	<0.2	0.02	<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	60	<1	<10	<3
MAR							
26...	<5	<1	<1	100	<1	20	15
MAY							
28...	13	<1	2	310	<1	23	18
AUG							
14...	<5	<1	<1	110	<1	12	<3

K-Based on non-ideal colony count.

09112500 EAST RIVER AT ALMONT, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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...	0840	122	330	6.0
NOV				
13...	1415	80	309	4.0
MAY				
14...	1420	1900	180	7.0
JUN				
03...	1220	2500	166	6.5
25...	1340	1580	186	9.0
JUL				
30...	1435	391	272	13.5
SEP				
17...	1615	187	291	14.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTMBER 1997

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...	1430	105	2	0.51
MAR				
26...	1100	118	3	1.1
MAY				
28...	1415	1120	18	54
AUG				
14...	1030	329	5	4.1

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 current year.

GAGE.--Water-stage recorder. 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 for irrigation of a few acres 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	e6.4	e7.0	e6.4	e5.6	e5.2	e9.7	54	203	125	44	22
2	7.7	e6.6	e6.0	e7.6	e5.6	e5.4	9.2	47	232	114	42	18
3	54	e6.6	e6.2	e7.2	e5.5	e5.2	9.9	46	222	107	41	16
4	29	e6.6	e6.4	e6.4	e5.5	e5.0	11	56	232	99	40	17
5	20	e6.2	e6.8	e6.4	e5.5	e5.2	8.2	75	218	93	43	16
6	16	e6.2	e6.6	e6.4	e5.4	e5.4	8.6	97	202	87	49	16
7	13	e6.2	e6.6	e6.8	e4.9	e5.4	7.1	116	222	81	44	16
8	11	e6.3	e6.8	e7.0	e5.0	e5.6	7.3	112	219	80	39	13
9	10	e6.3	e6.8	e6.6	e5.4	e6.2	7.7	121	192	81	37	12
10	9.5	e6.4	e6.6	e6.6	e5.6	e6.8	7.7	125	161	78	68	12
11	7.7	e6.4	e6.4	e6.4	e5.6	e7.8	7.7	123	161	78	52	12
12	7.7	e6.6	e6.4	e6.3	e5.4	e8.2	7.7	134	167	78	41	15
13	7.7	e6.7	e6.2	e6.2	e5.4	e8.2	7.7	143	159	80	42	14
14	8.4	e6.9	e5.4	e5.8	e5.8	e7.8	8.0	150	156	76	42	13
15	7.3	e6.2	e5.8	e5.0	e5.6	e7.8	10	155	155	74	37	27
16	9.3	e6.0	e5.3	e5.4	e5.6	e8.0	21	160	147	70	34	40
17	7.7	e6.6	e4.8	e5.7	e5.6	e8.2	33	176	155	67	31	25
18	7.7	e7.0	e5.4	e5.8	e5.8	e8.6	43	191	174	69	28	25
19	7.3	e7.4	e5.8	e6.0	e5.6	e9.2	52	189	201	64	25	22
20	e7.8	e7.4	e5.8	e6.0	e5.6	e11	62	166	200	66	23	20
21	e7.6	e8.4	e5.7	e5.9	e5.1	e12	70	160	183	61	20	23
22	e7.4	e11	e5.6	e5.9	e5.5	e12	64	160	182	61	16	28
23	e7.4	e10	e5.4	e5.8	e5.7	e11	57	149	182	73	15	23
24	e7.8	e9.2	e5.6	e5.8	e5.8	e10	53	142	167	64	16	21
25	e7.4	e8.4	e6.0	e6.0	e6.0	e9.4	46	128	151	54	20	19
26	e7.4	e7.6	e6.1	e6.0	e5.6	e9.4	46	112	146	49	21	19
27	e8.0	e7.6	e6.1	e5.6	e5.6	e9.2	51	93	142	54	19	31
28	e7.6	e8.2	e5.8	e5.8	e5.4	e9.6	63	85	141	51	18	22
29	e7.4	e7.2	e5.7	e5.4	---	e9.6	67	89	137	45	17	19
30	e7.2	e7.0	e5.6	e5.6	---	e9.4	56	110	132	41	17	16
31	e6.6	---	e5.6	e5.6	---	e9.4	---	153	---	41	17	---
TOTAL	339.1	215.6	186.3	189.4	154.7	251.2	911.5	3817	5341	2261	998	592
MEAN	10.9	7.19	6.01	6.11	5.53	8.10	30.4	123	178	72.9	32.2	19.7
MAX	54	11	7.0	7.6	6.0	12	70	191	232	125	68	40
MIN	6.6	6.0	4.8	5.0	4.9	5.0	7.1	46	132	41	15	12
AC-FT	673	428	370	376	307	498	1810	7570	10590	4480	1980	1170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1997, BY WATER YEAR (WY)

MEAN	9.39	6.81	5.77	5.42	5.43	6.58	20.2	96.0	160	83.9	32.7	13.7
MAX	11.1	7.92	6.30	6.11	5.77	8.10	33.1	123	210	175	61.1	19.7
(WY)	1994	1996	1994	1997	1996	1997	1996	1997	1995	1995	1995	1997
MIN	5.66	5.47	4.75	4.26	4.78	5.47	8.36	47.2	105	22.9	11.7	7.16
(WY)	1993	1993	1995	1995	1995	1993	1993	1995	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1993 - 1997	
ANNUAL TOTAL	11806.3		15256.8			
ANNUAL MEAN	32.3		41.8		37.3	
HIGHEST ANNUAL MEAN					46.3	1995
LOWEST ANNUAL MEAN					24.6	1994
HIGHEST DAILY MEAN	221	May 16	[a]232	Jun 2	414	Jun 18 1995
LOWEST DAILY MEAN	[e,b]4.8	Jan 26	[e]4.8	Dec 17	3.0	Jan 2 1995
ANNUAL SEVEN-DAY MINIMUM	5.3	Jan 29	5.3	Feb 28	3.9	Dec 31 1994
INSTANTANEOUS PEAK FLOW			279	Jun 1	982	Jun 18 1995
INSTANTANEOUS PEAK STAGE			5.45	Jun 1	6.45	Jun 18 1995
ANNUAL RUNOFF (AC-FT)	23420		30260		27000	
10 PERCENT EXCEEDS	104		146		124	
50 PERCENT EXCEEDS	8.7		10		8.6	
90 PERCENT EXCEEDS	5.6		5.6		5.2	

e-Estimated.
a-Also occurred Jun 4.
b-Also occurred Feb 3, and Dec 17.

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. Oct. 1, 1944 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e620	353	326	e250	e270	e270	478	1390	4030	2600	1290	708
2	e600	344	e310	e260	e270	267	455	1240	4700	2400	e1210	678
3	e620	350	e310	e265	e270	282	447	1150	4460	2270	e1180	717
4	e720	359	e310	e260	e270	275	488	1230	4730	2040	e1160	729
5	e700	347	e360	e250	e260	270	452	1520	4990	1970	1190	e740
6	e600	356	e350	e260	e250	266	417	1760	4910	1900	1200	e720
7	e560	340	e360	e280	e240	272	404	2220	4910	1810	1280	e700
8	e540	339	e360	e280	e250	275	416	2490	5210	1690	1170	e700
9	e520	347	e350	e290	e260	281	425	2580	5310	1580	1120	e680
10	e500	346	e310	e290	e270	273	423	2810	4310	1530	1260	e680
11	e480	343	e310	e290	e270	272	418	3010	4130	1520	1440	682
12	e450	348	e310	e290	e260	271	486	3100	4050	1470	1250	711
13	e430	354	e290	e280	e250	273	499	3150	3870	1430	1180	687
14	e410	357	e270	e260	e270	274	519	3300	3670	1410	1160	685
15	e400	358	e260	e230	e270	283	594	3500	3520	1370	1050	682
16	e400	357	e240	e260	e270	287	668	3800	3410	1380	933	833
17	e370	341	e230	e260	e270	300	804	3870	3260	1380	854	775
18	e390	350	e210	e270	e270	303	980	4060	3410	1430	834	679
19	e410	350	e230	e270	e270	309	1120	4250	3930	1430	806	647
20	e360	345	e250	e280	e260	331	1280	4350	4220	1390	774	637
21	e340	343	e260	e280	e240	359	1660	4060	4000	1380	748	654
22	e350	359	e260	e280	e260	387	1580	4170	3760	1380	726	771
23	e380	361	e250	e270	e250	427	1410	3560	3690	1460	703	764
24	e390	343	e260	e270	e250	448	1300	3510	3530	1450	707	701
25	e370	341	e265	e290	e270	397	1150	3280	3260	1350	694	679
26	e350	338	e270	e280	e280	401	1180	3170	3120	1310	748	650
27	e360	345	e270	e260	e270	428	1260	2740	3020	1320	739	710
28	357	322	e265	e270	e280	448	1540	2480	2940	1350	706	694
29	369	333	e260	e260	---	474	1620	2440	2830	1320	680	669
30	353	359	e260	e260	---	432	1420	2750	2700	1300	646	648
31	357	---	e250	e270	---	455	---	3140	---	1310	656	---
TOTAL	14056	10428	8816	8365	7370	10290	25893	90080	117880	48930	30094	21010
MEAN	453	348	284	270	263	332	863	2906	3929	1578	971	700
MAX	720	361	360	290	280	474	1660	4350	5310	2600	1440	833
MIN	340	322	210	230	240	266	404	1150	2700	1300	646	637
AC-FT	27880	20680	17490	16590	14620	20410	51360	178700	233800	97050	59690	41670

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1997, BY WATER YEAR (WY)

MEAN	404	300	237	211	204	252	616	1860	2547	1301	747	552
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1911 - 1997	
ANNUAL TOTAL	322165		393212			
ANNUAL MEAN	880		1077		771	
HIGHEST ANNUAL MEAN					1278	1995
LOWEST ANNUAL MEAN					256	1977
HIGHEST DAILY MEAN	4640	May 17	5310	Jun 9	11400	Jun 11 1918
LOWEST DAILY MEAN	e210	Dec 18	e210	Dec 18	80	Dec 27 1962
ANNUAL SEVEN-DAY MINIMUM	240	Dec 15	240	Dec 15	95	Dec 25 1962
INSTANTANEOUS PEAK FLOW			6010	Jun 9	a11400	Jun 13 1918
INSTANTANEOUS PEAK STAGE			4.73	Jun 9	b6.74	Jul 1 1957
ANNUAL RUNOFF (AC-FT)	639000		779900		558500	
10 PERCENT EXCEEDS	2360		3260		1930	
50 PERCENT EXCEEDS	555		486		396	
90 PERCENT EXCEEDS	265		260		180	

e-Estimated.
a-Site and datum then in use, from rating curve extended above 5000 ft^3/s, gage height, 4.05 ft.
b-Site and datum then in use.

09114500 GUNNISON RIVER NEAR GUNNISON, CO--Continued
WATER-QUALITY RECORDS

PERIOD OF RECORD--April 1995 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)
NOV										
21...	1035	267	227	8.5	2.0	0.4	12.3	1.1	K2	--
MAR										
27...	1345	404	217	8.4	6.5	2.7	10.2	0.5	K1	--
MAY										
29...	1415	2450	174	7.9	8.5	2.5	8.9	1.8	33	84
AUG										
13...	1330	1180	184	8.1	13.5	--	9.5	0.9	K18	--

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	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										
21...	--	--	0.01	<0.05	0.040	<0.2	<0.2	<0.01	<0.01	<0.01
MAR										
27...	--	--	<0.01	<0.05	<0.015	<0.2	<0.2	0.03	<0.01	<0.01
MAY										
29...	25	5.1	<0.01	0.09	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
AUG										
13...	--	--	<0.01	0.07	<0.015	<0.2	<0.2	0.06	0.02	0.01

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								
21...	0.01	<0.05	0.040	<0.2	<0.2	<0.01	<0.01	<0.01
MAR								
27...	<0.01	<0.05	<0.015	<0.2	<0.2	0.03	<0.01	<0.01
MAY								
29...	<0.01	0.09	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
AUG								
13...	<0.01	0.07	<0.015	<0.2	<0.2	0.06	0.02	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)
MAY							
29...	6.6	<1	<1	360	<1	30	9
AUG							
13...	6.7	<1	<1	140	<1	20	5

K-Based on non-ideal colony count.

09114500 GUNNISON RIVER NEAR GUNNISON, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT				
03...	1205	671	219	8.5
NOV				
15...	0815	354	231	2.0
JAN				
06...	1525	263	210	0.0
FEB				
24...	1600	249	207	0.0
APR				
03...	0815	426	221	2.5
MAY				
13...	0835	3280	149	3.0
28...	0730	2550	176	4.5
JUN				
03...	1705	4240	156	11.0
24...	0905	3780	161	7.5
JUL				
28...	1505	1340	195	13.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTMBER 1997

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				
21...	1035	267	1	0.58
MAR				
27...	1345	404	10	11
MAY				
29...	1415	2450	17	113
AUG				
13...	1330	1180	3	11

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	35	e18	e12	e12	e20	e50	83	381	117	66	49
2	27	36	e17	e12	e12	e19	e50	79	434	109	57	42
3	27	38	e15	e16	e12	e18	52	76	441	103	55	39
4	29	37	e15	e16	e12	e17	57	82	456	100	55	37
5	28	37	e16	e13	e12	e17	47	99	475	94	66	37
6	29	36	e17	e10	e12	e18	45	127	467	90	64	36
7	29	34	e16	e10	e12	e19	47	152	502	87	65	38
8	28	41	e16	e12	e11	e19	45	174	502	85	57	35
9	29	44	e17	e13	e12	e20	45	184	470	84	54	37
10	29	42	e17	e13	e14	e21	45	187	419	81	58	37
11	29	41	e17	e13	e15	e23	43	194	399	81	59	38
12	28	44	e16	e13	e15	e26	42	207	381	78	55	36
13	29	45	e16	e13	e17	e27	44	230	351	73	53	38
14	30	e49	e14	e12	e19	e27	45	250	328	70	51	41
15	31	e45	e11	e11	e18	e27	50	268	302	67	47	39
16	31	e41	e12	e11	e18	e30	64	296	288	64	45	48
17	30	e42	e11	e11	e18	e32	80	322	270	63	44	40
18	30	e41	e11	e12	e19	e33	92	359	259	63	48	37
19	31	e41	e11	e12	e19	e37	94	366	261	63	45	36
20	32	e42	e12	e12	e20	e42	106	375	261	66	41	37
21	32	e47	e12	e13	e19	e52	115	379	245	65	40	61
22	30	e50	e12	e12	e19	e62	105	480	232	68	40	54
23	37	e44	e12	e12	e20	e64	89	452	220	84	41	47
24	34	e40	e12	e12	e21	e58	82	441	205	66	42	41
25	33	e35	e12	e13	e22	e52	72	427	186	58	40	38
26	33	e30	e12	e13	e22	e52	73	401	172	55	42	37
27	33	e25	e13	e13	e21	e52	69	346	159	68	40	37
28	34	e21	e13	e12	e20	e52	86	307	144	74	38	35
29	35	e21	e12	e12	---	e54	85	290	138	68	37	34
30	39	e19	e12	e11	---	e49	80	303	129	75	37	34
31	38	---	e12	e12	---	e48	---	325	---	72	43	---
TOTAL	960	1143	429	382	463	1087	1999	8261	9477	2391	1525	1195
MEAN	31.0	38.1	13.8	12.3	16.5	35.1	66.6	266	316	77.1	49.2	39.8
MAX	39	50	18	16	22	64	115	480	502	117	66	61
MIN	26	19	11	10	11	17	42	76	129	55	37	34
AC-FT	1900	2270	851	758	918	2160	3970	16390	18800	4740	3020	2370

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 1997, BY WATER YEAR (WY)

MEAN	31.5	27.9	23.4	21.7	22.3	28.0	68.7	202	206	66.7	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1917 - 1997	
ANNUAL TOTAL	26743		29312			
ANNUAL MEAN	73.1		80.3		64.1	
HIGHEST ANNUAL MEAN					122	1921
LOWEST ANNUAL MEAN					26.8	1967
HIGHEST DAILY MEAN	462	May 20	[a]502	Jun 7	838	Jun 18 1995
LOWEST DAILY MEAN	[e,b]11	Dec 15	[e,c]10	Jan 6	6.0	Nov 16 1920
ANNUAL SEVEN-DAY MINIMUM	11	Dec 15	11	Dec 15	8.5	Sep 5 1959
INSTANTANEOUS PEAK FLOW			527	Jun 8	964	Jun 18 1995
INSTANTANEOUS PEAK STAGE			3.03	Jun 8	[d]4.03	Jun 18 1995
ANNUAL RUNOFF (AC-FT)	53040		58140		46420	
10 PERCENT EXCEEDS	180		260		157	
50 PERCENT EXCEEDS	44		40		30	
90 PERCENT EXCEEDS	25		12		18	

e-Estimated.
a-Also occurred Jun 8.
b-Also occurred Dec 17-19.
c-Also occurred Jan 7.
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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	20	e18	e14	e14	e15	43	41	107	42	62	73
2	15	21	e18	e14	e14	e15	39	39	134	37	55	67
3	19	21	e17	e14	e14	e15	38	37	155	34	59	59
4	22	24	e15	e17	e14	e15	41	37	154	31	62	72
5	19	25	e16	e14	e14	e15	33	42	161	33	85	67
6	17	24	e17	e14	e14	e15	26	55	161	36	78	61
7	17	e23	e17	e11	e14	e15	29	69	167	39	97	66
8	19	e22	e16	e14	e14	e15	32	71	178	43	80	59
9	18	e23	e17	e13	e12	e15	35	73	231	41	68	55
10	18	24	e17	e13	e13	e16	32	69	202	39	77	56
11	18	24	e17	e14	e14	17	31	68	157	41	88	67
12	18	24	e17	e14	e14	19	25	70	122	44	75	66
13	18	24	e16	e13	e14	20	26	71	116	39	76	59
14	18	23	e16	e13	e13	19	27	79	112	35	68	57
15	18	23	e13	e13	e13	23	31	82	108	37	61	54
16	19	e20	e14	e12	e14	24	34	81	108	44	57	60
17	19	e19	e13	e12	e14	25	37	83	97	41	67	56
18	19	e19	e12	e12	e14	e34	43	87	90	42	62	53
19	19	e20	e13	e12	e14	e40	47	90	89	57	64	50
20	20	e20	e13	e12	e15	e48	48	94	88	62	63	51
21	19	e21	e15	e12	e15	e56	57	113	86	55	58	93
22	22	e23	e15	e12	e15	e66	57	145	86	50	56	109
23	23	e23	e15	e12	e15	e70	50	145	85	73	59	96
24	21	e23	e15	e12	e16	e72	45	107	81	77	57	87
25	20	e23	e15	e13	e16	e70	39	104	73	54	57	82
26	20	e21	e15	e14	e16	69	39	115	61	52	60	79
27	21	e18	e16	e14	e16	66	37	102	61	74	62	80
28	24	e19	e16	e13	e16	69	40	91	61	80	61	77
29	24	e21	e15	e14	---	65	42	84	59	68	56	75
30	22	e19	e15	e14	---	45	41	82	54	66	55	72
31	22	---	e14	e13	---	43	---	87	---	64	63	---
TOTAL	603	654	478	408	401	1111	1144	2513	3444	1530	2048	2058
MEAN	19.5	21.8	15.4	13.2	14.3	35.8	38.1	81.1	115	49.4	66.1	68.6
MAX	24	25	18	17	16	72	57	145	231	80	97	109
MIN	15	18	12	11	12	15	25	37	54	31	55	50
AC-FT	1200	1300	948	809	795	2200	2270	4980	6830	3030	4060	4080

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1997, BY WATER YEAR (WY)

MEAN	35.4	30.2	22.9	20.1	20.8	31.8	55.3	86.8	95.8	55.7	63.3	45.5
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1981 - 1997	
ANNUAL TOTAL	9956		16392			
ANNUAL MEAN	27.2		44.9		47.2	
HIGHEST ANNUAL MEAN					106	1984
LOWEST ANNUAL MEAN					24.8	1994
HIGHEST DAILY MEAN	[a]123	Apr 9	231	Jun 9	954	May 23 1984
LOWEST DAILY MEAN	11	Sep 8	[e]11	Jan 7	8.4	Feb 7 1982
ANNUAL SEVEN-DAY MINIMUM	13	Mar 1	12	Jan 16	8.9	Feb 7 1982
INSTANTANEOUS PEAK FLOW			252	Jun 9	1120	May 23 1984
INSTANTANEOUS PEAK STAGE			[b]3.17	Jun 9	4.49	May 23 1984
ANNUAL RUNOFF (AC-FT)	19750		32510		34210	
10 PERCENT EXCEEDS	64		87		91	
50 PERCENT EXCEEDS	19		34		33	
90 PERCENT EXCEEDS	14		14		16	

e-Estimated.
a-Also occurred Apr 10.
b-Maximum gage height, 3.32 ft, Mar 21, 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	99	e90	e78	e78	e78	277	253	756	295	266	177
2	79	92	e92	e78	e80	e76	300	255	897	272	244	175
3	90	95	e78	e100	e78	e76	264	238	1040	247	212	159
4	99	108	e80	e96	e76	e76	289	223	1090	225	215	158
5	112	113	e78	e84	e78	e72	245	240	1140	198	241	160
6	101	107	e88	e76	e76	e76	178	254	1180	195	267	153
7	95	88	e88	e80	e76	e78	168	278	1220	200	288	151
8	97	71	e90	e80	e72	e78	184	335	1370	190	288	151
9	91	83	e90	e82	e72	e80	197	359	1560	216	246	144
10	75	94	e90	e84	e78	e84	221	357	1420	211	257	143
11	69	93	e90	e86	e80	e94	192	356	1340	203	279	152
12	72	90	e88	e86	e80	e110	179	369	1180	201	261	157
13	73	92	e88	e84	e76	e115	162	400	1070	188	244	150
14	72	e92	e88	e82	e78	e112	160	436	997	165	247	137
15	74	e94	e76	e78	e80	e112	169	483	899	e180	231	137
16	75	e96	e78	e70	e78	e122	188	561	849	e190	192	153
17	79	e92	e70	e68	e78	e132	210	629	797	e190	188	150
18	82	e94	e62	e74	e78	e144	237	690	736	e190	199	136
19	82	e98	e70	e76	e78	e175	257	744	732	e195	197	115
20	88	e98	e78	e80	e80	e200	269	793	748	e210	189	119
21	93	e105	e80	e80	e74	e230	301	866	727	e260	177	142
22	79	e125	e78	e80	e72	e260	342	1050	682	e270	168	206
23	93	e130	e78	e80	e78	e280	351	1280	639	e245	176	223
24	109	e120	e76	e78	e80	e290	323	1180	596	e230	175	202
25	108	e110	e78	e80	e78	e280	272	1040	524	e220	173	186
26	104	e100	e82	e82	e80	e280	244	1020	459	e245	183	177
27	102	e92	e84	e80	e78	e284	241	975	405	e290	184	173
28	106	e98	e86	e78	e78	e260	254	839	368	e310	177	166
29	110	e105	e82	e78	---	e260	287	731	355	e320	168	161
30	99	e100	e80	e74	---	e240	268	688	344	281	158	155
31	97	---	e80	e78	---	e254	---	690	---	282	158	---
TOTAL	2789	2974	2536	2490	2168	5008	7229	18612	26120	7114	6648	4768
MEAN	90.0	99.1	81.8	80.3	77.4	162	241	600	871	229	214	159
MAX	112	130	92	100	80	290	351	1280	1560	320	288	223
MIN	69	71	62	68	72	72	160	223	344	165	158	115
AC-FT	5530	5900	5030	4940	4300	9930	14340	36920	51810	14110	13190	9460

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1997, BY WATER YEAR (WY)

MEAN	93.7	102	76.8	66.6	69.4	112	246	407	488	199	160	92.7
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1938 - 1997	
ANNUAL TOTAL	59944		88456			
ANNUAL MEAN	164		242		176	
HIGHEST ANNUAL MEAN					478	1984
LOWEST ANNUAL MEAN					60.4	1977
HIGHEST DAILY MEAN	862	May 20	1560	Jun 9	4040	May 26 1984
LOWEST DAILY MEAN	e,a37	Aug 25	e62	Dec 18	2.6	Sep 30 1977
ANNUAL SEVEN-DAY MINIMUM	37	Aug 25	73	Oct 10	7.6	May 4 1967
INSTANTANEOUS PEAK FLOW			1590	Jun 9	4620	May 23 1984
INSTANTANEOUS PEAK STAGE			4.63	Jun 9	5.49	May 23 1984
ANNUAL RUNOFF (AC-FT)	118900		175500		127600	
10 PERCENT EXCEEDS	370		656		393	
50 PERCENT EXCEEDS	96		153		98	
90 PERCENT EXCEEDS	65		78		54	

e-Estimated.
a-Also occurred Aug 26-27, 31, and Sep 1.

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 1996 TO SEPTEMBER 1997

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)
NOV										
21...	0900	90	247	8.1	0.5	4.5	11.2	1.2	21	--
MAR										
27...	1120	284	252	7.8	2.0	18	10.0	1.9	K7	--
MAY										
29...	1130	730	224	7.8	11.5	4.0	9.0	1.6	150	100
AUG										
14...	1220	250	237	8.2	15.0	1.9	8.9	1.1	97	100

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	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										
21...	--	--	0.02	<0.05	0.030	<0.2	<0.2	0.04	<0.01	0.02
MAR										
27...	--	--	<0.01	0.07	<0.015	1.0	0.4	0.26	0.04	0.03
MAY										
29...	28	7.9	<0.01	<0.05	<0.015	0.5	0.2	0.02	<0.01	0.02
AUG										
14...	30	7.4	<0.01	<0.05	<0.015	0.3	<0.2	0.03	<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)
MAY							
29...	<5	<1	<1	630	<1	60	<3
AUG							
14...	<5	<1	<1	510	<1	50	<3

K-Based on non-ideal colony count.

09119000 TOMICHI CREEK AT GUNNISON, CO--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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				
21...	0900	90	20	4.9
MAR				
27...	1120	284	135	104
MAY				
29...	1130	730	48	95
AUG				
14...	1220	250	13	8.6

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT				
03...	0820	90	331	9.0
NOV				
13...	1600	94	274	3.0
JAN				
07...	0900	80	258	0.0
FEB				
26...	0850	81	266	0.0
MAY				
13...	1055	396	204	9.0
27...	1720	983	229	12.0
JUN				
10...	1640	1440	230	15.0
24...	1010	630	227	13.0
JUL				
29...	0815	324	281	14.5
SEP				
16...	1350	167	236	15.5

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 SW1/4SE1/4 sec. 8, T.49 N., R.1 W., Gunnison County, Hydrologic Unit 14020002, at County Road 32 bridge, 0.25 mi south of US HWY 50, and 3.3 mi west of Gunnison.

DRAINAGE AREA.--2,128 mi^2.

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1996 to September 1997.

INSTRUMENTATION.--Water temperature sensor and logger installed October 8, 1996.

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 CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 18.4°C, Aug. 2; minimum, 0.0°C on many days November to March.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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												
08...	1015	671	229	7.9	8.0	--	9.5	--	--	100	31	6.6
NOV												
21...	1240	455	240	8.2	2.5	--	11.9	0.9	K3	110	32	7.4
JAN												
09...	1015	300	242	7.9	1.0	--	10.7	--	--	110	32	7.3
FEB												
25...	1300	290	221	7.7	0.0	--	10.9	--	--	94	27	6.5
MAR												
27...	1030	674	235	8.0	2.5	5.7	11.1	1.9	K5	100	30	7.1
APR												
30...	1530	1420	192	8.0	8.0	--	9.6	--	--	89	26	5.8
MAY												
13...	1100	3370	152	8.0	7.0	17	9.3	--	--	68	21	4.1
24...	1655	4590	174	8.1	10.5	--	8.3	--	--	82	24	5.6
29...	1220	3090	186	8.2	9.0	3.5	8.7	0.7	46	88	26	5.8
JUL												
15...	1250	1400	215	8.5	11.5	--	8.1	--	--	100	30	6.0
AUG												
14...	1130	1390	196	8.4	12.0	1.1	8.8	1.5	32	90	27	5.5

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[a] WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE[b] WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA-LINITY[c] 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												
08...	3.5	0.1	1.1	120	--	98	14	0.9	0.2	9.7	138	126
NOV												
21...	4.4	0.2	1.2	124	--	102	17	2.1	0.2	10	139	136
JAN												
09...	4.6	0.2	1.2	129	--	106	17	1.4	0.2	12	144	140
FEB												
25...	5.1	0.2	1.2	117	--	96	16	1.5	0.3	11	134	127
MAR												
27...	6.0	0.3	2.3	111	--	91	20	2.3	0.3	12	147	135
APR												
30...	4.6	0.2	1.1	90	--	74	16	1.3	0.2	11	123	112
MAY												
13...	2.8	0.1	0.9	73	--	60	11	0.7	0.1	9.3	103	86
24...	4.0	0.2	1.3	90	--	74	13	0.9	0.2	11	116	104
29...	3.6	0.2	1.1	101	--	83	11	0.8	0.2	12	110	110
JUL												
15...	3.0	0.1	0.8	94	2	98[d]	11	0.4	0.2	9.5	132	110
AUG												
14...	3.0	0.1	0.9	88	2	76	12	0.6	0.1	10	123	105

K-Based on non-ideal colony count.
a-Field dissolved bicarbonate, determined by incremental titration method.
b-Field dissolved carbonate, determined by incremental titration method.
c-Field total dissolved alkalinity, determined by incremental titration method.
d-Lab total dissolved alkalinity, determined by fixed end-point titration method.

383103106594200 GUNNISON RIVER AT COUNTY ROAD 32 BELOW GUNNISON, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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												
08...	0.19	250	<0.01	<0.05	<0.015	<0.2	0.3	<0.01	0.01	<0.01	1.7	0.4
NOV												
21...	0.19	171	0.02	0.07	0.02	<0.2	<0.2	0.02	<0.01	<0.01	1.2	0.3
JAN												
09...	0.20	117	0.01	0.14	0.02	<0.2	<0.2	<0.01	<0.01	0.02	1.2	0.2
FEB												
25...	0.18	105	<0.01	0.11	<0.015	0.3	<0.2	<0.01	<0.01	0.01	3.0	0.7
MAR												
27...	0.20	268	<0.01	0.06	<0.015	0.6	<0.2	0.13	0.01	0.02	3.5	1.1
APR												
30...	0.17	472	<0.01	0.13	<0.015	0.2	0.2	<0.01	0.03	0.01	3.0	0.2
MAY												
13...	0.14	937	<0.01	0.08	<0.015	0.4	<0.2	0.15	<0.01	<0.01	3.4	1.2
24...	0.16	1440	<0.01	<0.05	<0.015	0.3	<0.2	0.05	<0.01	0.01	4.7	0.4
29...	0.15	918	<0.01	<0.05	0.04	0.3	<0.2	0.03	0.01	0.01	3.6	0.4
JUL												
15...	0.18	498	<0.01	<0.05	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	2.3	0.2
AUG												
14...	0.17	462	<0.01	0.06	<0.015	<0.2	<0.2	0.04	0.01	<0.01	2.2	0.5

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)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT									
08...	--	--	--	--	8	--	--	12	--
NOV									
21...	--	--	--	--	21	--	--	14	--
JAN									
09...	--	--	--	--	8	--	--	12	--
FEB									
25...	--	--	--	--	10	--	--	11	--
MAR									
27...	<5	<1	<1	920	64	<1	110	37	<3
APR									
30...	--	--	--	--	29	--	--	15	--
MAY									
13...	11	<1	2	1800	29	<1	100	11	9
24...	--	--	--	--	30	--	--	13	--
29...	8	<1	<1	510	21	<1	40	16	4
JUL									
15...	--	--	--	--	25	--	--	15	--
AUG									
14...	<5	<1	<1	230	26	<1	30	10	5

383103106594200 GUNNISON RIVER AT COUNTY ROAD 32 BELOW GUNNISON, CO--Continued
(National Water-Quality Assessment Program station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)[f]	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	MEDIUM CODE[g]
OCT					
08...	1015	671	3	5.4	9
NOV					
21...	1240	455	3	3.7	9
JAN					
09...	1015	300	1	0.81	9
FEB					
25...	1300	290	7	5.5	9
MAR					
27...	1030	674	30	55	9
APR					
30...	1530	1420	20	77	9
MAY					
13...	1100	3370	94	855	9
24...	1655	4590	38	471	9
29...	1220	3090	11	92	9
JUL					
15...	1250	1400	4	15	9
AUG					
14...	1130	1390	5	19	9
14...	1131	1390	5	19	R

f-Suspended-sediment concentration determined from a subsample split of a composite sample.
g-A medium code of 9 is a regular sample; a code of R is a replicate sample.

TEMPERATURE WATER, (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	5.4	2.4	3.7	.4	.0	.1	.0	.0	.0
2	---	---	---	5.3	1.2	3.2	.2	.0	.1	.0	.0	.0
3	---	---	---	4.2	2.0	3.1	.2	.0	.0	.0	.0	.0
4	---	---	---	6.4	3.1	4.4	.2	.0	.0	.0	.0	.0
5	---	---	---	5.3	2.7	3.9	.0	.0	.0	.0	.0	.0
6	---	---	---	5.3	2.7	3.6	.0	.0	.0	.0	.0	.0
7	---	---	---	3.4	.2	1.9	.2	.0	.1	.0	.0	.0
8	12.5	---	---	3.4	.0	1.6	.0	.0	.0	.0	.0	.0
9	12.4	8.1	10.2	4.3	.0	2.2	.0	.0	.0	.0	.0	.0
10	12.4	8.1	10.2	4.3	.7	2.5	.0	.0	.0	.0	.0	.0
11	12.1	7.7	10.0	4.0	.2	2.2	.7	.0	.3	.0	.0	.0
12	12.1	7.7	9.9	4.0	.2	2.2	1.2	.0	.4	.0	.0	.0
13	11.8	7.6	9.7	4.0	.7	2.5	.0	.0	.0	.0	.0	.0
14	11.0	7.6	9.3	4.0	1.3	2.8	.2	.0	.0	.0	.0	.0
15	10.7	6.5	8.6	3.7	2.9	3.3	.0	.0	.0	.0	.0	.0
16	8.7	6.0	7.2	3.5	1.2	2.4	.0	.0	.0	.0	.0	.0
17	7.9	4.6	6.1	1.2	.0	.2	.0	.0	.0	.0	.0	.0
18	7.7	2.6	5.3	2.7	.0	1.1	.0	.0	.0	.0	.0	.0
19	8.2	4.3	6.4	3.5	.5	1.9	.0	.0	.0	.0	.0	.0
20	7.9	5.1	6.3	4.6	1.2	2.6	.0	.0	.0	.0	.0	.0
21	5.1	2.4	3.7	3.7	.8	2.5	.0	.0	.0	.0	.0	.0
22	5.3	.2	2.6	4.2	2.8	3.4	.0	.0	.0	.0	.0	.0
23	6.4	1.3	3.8	4.6	2.9	3.7	.0	.0	.0	.0	.0	.0
24	6.4	2.4	4.5	3.1	.8	2.0	.0	.0	.0	.0	.0	.0
25	7.1	3.8	5.3	3.1	.4	1.6	.0	.0	.0	.0	.0	.0
26	5.9	2.4	4.2	1.5	.0	.7	.0	.0	.0	.0	.0	.0
27	5.9	2.9	4.4	2.3	.0	.9	.0	.0	.0	.0	.0	.0
28	6.0	4.2	5.1	1.5	.0	.2	.0	.0	.0	.0	.0	.0
29	5.6	2.9	4.1	.2	.0	.1	.0	.0	.0	.0	.0	.0
30	5.7	1.6	3.7	1.0	.0	.3	.0	.0	.0	.0	.0	.0
31	5.3	2.1	3.8	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	---	---	---	6.4	.0	2.2	1.2	.0	.0	.0	.0	.0

383103106594200 GUNNISON RIVER AT COUNTY ROAD 32 BELOW GUNNISON, CO--Continued
(National Water-Quality Assessment Program station)

TEMPERATURE WATER, (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	.0	.0	.0	7.9	3.2	5.6	7.5	5.1	6.2
2	.0	.0	.0	.0	.0	.0	8.4	3.1	5.4	8.1	2.9	5.6
3	.0	.0	.0	.0	.0	.0	7.4	2.9	5.1	9.8	4.5	7.3
4	.0	.0	.0	.0	.0	.0	5.9	3.4	4.7	10.7	5.7	8.4
5	.0	.0	.0	.0	.0	.0	4.8	1.8	3.3	11.2	6.0	8.9
6	.0	.0	.0	.0	.0	.0	5.1	.4	2.6	10.1	6.2	8.5
7	.0	.0	.0	.0	.0	.0	6.2	.4	3.4	9.8	5.1	7.8
8	.0	.0	.0	.0	.0	.0	7.1	2.3	4.9	8.8	4.6	7.0
9	.0	.0	.0	.0	.0	.0	7.7	4.5	6.1	9.9	4.8	7.6
10	.0	.0	.0	.0	.0	.0	7.6	3.8	5.4	9.9	4.8	7.7
11	.0	.0	.0	.0	.0	.0	7.4	2.1	4.4	10.1	4.6	7.6
12	.0	.0	.0	1.6	.0	.4	5.9	1.2	3.6	10.4	5.4	8.2
13	.0	.0	.0	3.2	.0	1.3	7.3	1.0	4.1	---	4.8	---
14	.0	.0	.0	3.8	.0	1.9	8.2	2.0	5.1	---	---	---
15	.0	.0	.0	5.7	1.2	3.3	8.8	3.8	6.3	---	---	---
16	.0	.0	.0	5.6	1.5	3.5	10.5	4.0	7.2	---	---	---
17	.0	.0	.0	7.0	1.6	4.0	10.4	4.5	7.4	---	---	---
18	.0	.0	.0	6.5	1.3	3.6	9.8	4.8	7.2	---	---	---
19	.0	.0	.0	6.7	1.2	3.6	8.5	4.3	6.6	---	---	---
20	.0	.0	.0	7.0	1.5	3.9	8.7	4.0	6.5	---	---	---
21	.0	.0	.0	5.4	2.0	3.5	6.9	4.8	5.8	---	---	---
22	.0	.0	.0	5.7	1.6	3.5	8.2	2.7	5.4	---	---	---
23	.0	.0	.0	5.9	2.0	3.7	6.7	4.3	5.5	---	---	---
24	.0	.0	.0	3.5	1.4	2.3	6.7	4.0	5.2	---	---	---
25	.0	.0	.0	4.5	.0	2.0	8.8	2.7	5.8	---	---	---
26	.0	.0	.0	5.4	.7	2.8	9.8	4.9	7.4	---	---	---
27	.0	.0	.0	5.7	1.6	3.4	10.2	4.3	7.5	---	---	---
28	.0	.0	.0	7.3	1.5	4.3	9.1	6.4	7.7	---	---	---
29	---	---	---	6.8	2.9	4.7	7.6	5.2	6.4	---	---	---
30	---	---	---	7.4	1.2	4.3	8.5	3.1	5.8	---	---	---
31	---	---	---	7.4	1.8	4.8	---	---	---	---	---	---
MONTH	.0	.0	.0	7.4	.0	2.1	10.5	.4	5.6	---	---	---
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	17.7	12.9	15.4	16.0	13.0	14.6
2	---	---	---	---	---	---	18.4	13.5	15.8	17.6	12.2	14.9
3	---	---	---	---	---	---	16.8	13.6	15.2	17.1	13.3	15.2
4	---	---	---	---	---	---	15.2	13.2	14.2	16.1	13.0	14.7
5	---	---	---	---	---	---	15.2	12.7	13.7	16.3	11.9	14.0
6	---	---	---	---	---	---	14.3	12.1	13.3	14.5	11.9	13.3
7	---	---	---	---	---	---	16.5	11.5	13.7	15.8	10.5	12.9
8	---	---	---	---	---	---	16.5	11.9	14.3	16.1	11.2	13.7
9	---	---	---	---	---	---	15.5	12.2	13.9	14.3	11.8	13.0
10	---	---	---	---	---	---	14.7	12.1	13.2	16.0	11.2	13.4
11	---	---	---	---	---	---	13.9	10.5	12.2	15.8	11.8	13.8
12	---	---	---	---	---	---	15.0	10.1	12.5	16.5	12.1	14.2
13	---	---	---	---	---	---	14.6	11.2	13.1	14.6	11.2	13.1
14	---	---	---	---	---	---	15.4	10.4	12.9	14.6	11.2	12.8
15	---	---	---	16.9	---	---	16.5	11.2	13.9	14.1	10.8	12.5
16	---	---	---	15.5	11.0	13.5	16.5	12.4	14.2	14.9	11.8	13.1
17	---	---	---	16.3	10.8	13.7	16.5	11.6	14.1	14.9	10.5	12.8
18	---	---	---	14.9	10.8	13.1	16.5	13.3	14.8	16.0	12.2	14.0
19	---	---	---	15.5	11.0	13.1	16.1	12.1	14.3	15.2	12.1	13.7
20	---	---	---	16.1	11.9	14.2	16.6	12.4	14.6	14.3	11.6	13.0
21	---	---	---	16.9	11.6	14.1	16.1	12.4	14.4	12.9	11.5	12.1
22	---	---	---	16.6	11.6	14.2	17.4	13.2	15.3	11.8	10.1	11.0
23	---	---	---	15.7	12.6	14.4	17.1	13.0	15.1	13.0	9.0	10.9
24	---	---	---	17.4	12.4	14.9	16.8	12.6	14.8	13.3	9.0	11.2
25	---	---	---	17.3	12.2	14.9	17.1	13.0	15.2	13.9	9.4	11.8
26	---	---	---	15.8	12.7	14.6	16.9	13.3	15.1	13.0	11.3	12.3
27	---	---	---	16.0	12.6	14.3	17.9	12.9	15.3	15.4	11.5	13.2
28	---	---	---	14.9	12.6	13.9	18.1	13.6	15.9	14.3	10.4	12.3
29	---	---	---	16.5	12.9	14.4	16.8	13.3	15.2	13.3	9.3	11.4
30	---	---	---	15.4	13.0	14.1	16.3	12.6	14.4	13.5	9.1	11.4
31	---	---	---	17.1	12.7	14.7	15.4	12.4	14.0	---	---	---
MONTH	---	---	---	---	---	---	18.4	10.1	14.3	17.6	9.0	13.0

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	101	e72	e58	e50	e50	149	216	1670	977	509	e160
2	100	96	e74	e58	e52	e47	148	205	1900	881	466	e150
3	151	103	e64	e88	e50	e47	153	191	1760	834	450	e150
4	178	102	e68	e82	e50	e45	158	199	1780	793	451	e160
5	156	99	e64	e66	e50	e42	154	239	1910	741	453	e150
6	157	97	e76	e67	e50	e45	136	325	1730	707	460	e160
7	163	89	e72	e48	e45	e46	182	398	1460	659	444	e155
8	167	85	e74	e54	e40	e47	240	421	1340	608	407	e145
9	170	90	e74	e56	e44	e48	175	404	1190	576	381	143
10	172	86	e74	e54	e47	e52	142	375	1040	562	372	146
11	170	83	e74	e56	e50	e56	127	392	1120	579	386	148
12	168	e78	e72	e56	e50	e64	114	470	1180	538	368	163
13	160	e78	e70	e54	e48	e70	110	587	1210	536	355	160
14	155	e76	e64	e54	e46	e70	110	717	1120	550	340	159
15	148	e78	e50	e50	e50	e70	112	834	1140	546	316	158
16	143	e82	e54	e40	e50	e78	116	1000	1150	534	295	193
17	131	e82	e45	e40	e50	e84	130	1110	1080	495	285	194
18	123	e82	e35	e48	e50	e86	165	1120	1270	412	276	187
19	125	e84	e44	e48	e50	e100	184	1170	1400	457	256	177
20	126	e84	e54	e49	e52	e115	219	1100	1530	477	237	172
21	116	e88	e60	e52	e49	e150	267	1090	1530	472	225	218
22	103	e92	e60	e52	e45	e160	303	989	1510	461	218	352
23	113	e100	e58	e52	e50	e170	281	859	1460	501	213	349
24	111	e100	e58	e50	e52	e170	250	848	1350	541	211	317
25	109	e96	e58	e52	e48	e150	224	818	1220	505	207	298
26	104	e88	e62	e54	e49	e140	206	758	1160	470	197	289
27	110	e82	e64	e52	e50	e145	193	675	1070	480	194	299
28	119	e76	e64	e48	e50	e145	210	624	1020	519	e160	296
29	116	e86	e62	e52	---	e150	220	588	1000	485	e155	273
30	108	e82	e60	e47	---	e148	219	723	1000	490	e150	250
31	108	---	e60	e50	---	e148	---	1190	---	523	e155	---
TOTAL	4182	2645	1940	1687	1367	2938	5397	20635	40300	17909	9592	6171
MEAN	135	88.2	62.6	54.4	48.8	94.8	180	666	1343	578	309	206
MAX	178	103	76	88	52	170	303	1190	1910	977	509	352
MIN	100	76	35	40	40	42	110	191	1000	412	150	143
AC-FT	8290	5250	3850	3350	2710	5830	10700	40930	79940	35520	19030	12240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1997, BY WATER YEAR (WY)

MEAN	94.0	68.3	52.2	46.2	43.7	56.4	133	537	993	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1938 - 1997	
ANNUAL TOTAL	77466		114763			
ANNUAL MEAN	212		314		238	
HIGHEST ANNUAL MEAN					413	1984
LOWEST ANNUAL MEAN					88.7	1977
HIGHEST DAILY MEAN	[a]1400	May 20	1910	Jun 5	2410	Jun 29 1957
LOWEST DAILY MEAN	[e]29	Jan 27	[e]35	Dec 18	22	Jan 21 1976
ANNUAL SEVEN-DAY MINIMUM	43	Jan 26	46	Mar 2	23	Jan 19 1976
INSTANTANEOUS PEAK FLOW			2080	Jun 5	2720	Jul 10 1983
INSTANTANEOUS PEAK STAGE			4.61	Jun 5	[b]4.18	Jul 10 1983
ANNUAL RUNOFF (AC-FT)	153700		227600		172200	
10 PERCENT EXCEEDS	663		1000		690	
50 PERCENT EXCEEDS	95		150		86	
90 PERCENT EXCEEDS	50		50		40	

e-Estimated.
a-Estimated during period of indefinite stage-discharge relationship, May 19-20.
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, 13,420 acre-ft, June 2, elevation, 8,926.99 ft; minimum contents, 2,610 acre-ft, Oct. 1, elevation, 8,872.35 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	8,872.81	2,670	-
Oct. 31	8,883.98	4,110	+1,440
Nov. 30	8,889.98	5,040	+930
Dec. 31	8,892.85	5,510	+470
CAL YR 1996	-	-	-3,560
Jan. 31	8,894.64	5,840	+330
Feb. 28	8,895.55	6,000	+160
Mar. 31	8,899.34	6,700	+700
Apr. 30	8,907.45	8,380	+1,680
May 31	8,926.70	13,330	+4,950
June 30	8,925.99	13,120	-210
July 31	8,924.95	12,820	-300
Aug. 31	8,913.45	9,760	-3,060
Sept. 30	8,902.45	7,320	-2,440
WTR YR 1997	-	-	+4,650

09126000 CIMARRON RIVER NEAR CIMARRON, CO

LOCATION (REVISED).--Lat 38°15'26", long 107°32'46", in NW1/4NE1/4 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. Prior to Oct. 1, 1996, at site 0.2 mi downstream.

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 (revised) 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	15	e16	17	e16	16	20	27	1070	377	126	118
2	19	16	e17	17	e16	e15	20	26	1010	340	126	122
3	28	16	e14	18	e16	e15	20	29	818	317	118	120
4	22	16	e14	17	e16	15	e16	34	1030	304	101	117
5	21	16	e15	e17	e15	e14	e16	41	1020	288	98	115
6	20	16	e16	e16	e15	e15	e16	41	992	265	107	117
7	20	e15	e15	e15	e15	e16	e16	45	780	241	127	112
8	20	e14	e15	e16	e15	e16	19	47	746	210	126	113
9	20	15	e15	17	e16	e16	19	43	747	191	126	118
10	20	15	16	17	e16	e16	19	43	679	194	131	118
11	20	17	16	17	e16	e17	19	45	651	219	129	110
12	20	16	16	18	e15	17	e16	50	669	213	128	108
13	20	16	e16	18	e14	17	e16	54	680	222	130	121
14	21	16	17	e17	e13	16	e17	54	627	226	130	123
15	22	16	e14	e16	e15	15	18	58	607	231	128	117
16	28	17	e15	e15	e15	15	20	287	502	170	126	108
17	28	e16	e16	e15	e15	16	22	539	491	133	123	109
18	28	16	e15	e16	e15	16	23	537	541	131	123	110
19	28	16	e14	e16	e15	16	24	567	564	131	120	109
20	29	16	e15	e16	e15	17	27	546	561	128	119	108
21	29	16	e16	e17	e14	18	29	515	592	126	116	110
22	29	17	17	e17	e14	18	27	515	645	120	115	94
23	29	17	16	e16	e14	19	25	478	630	124	113	69
24	29	e16	e15	e16	e15	20	24	440	602	128	114	69
25	29	17	e15	e16	e14	21	23	428	526	124	113	69
26	29	e18	16	e17	e14	20	24	376	485	124	114	68
27	29	e16	17	e16	e14	19	28	366	446	127	116	70
28	30	e17	17	e17	15	19	38	313	403	126	118	70
29	29	e17	e16	e16	---	20	33	288	393	126	117	56
30	22	e16	17	e15	---	e16	28	363	384	125	115	40
31	15	---	17	e16	---	20	---	778	---	126	117	---
TOTAL	752	483	486	510	418	526	662	7973	19891	5907	3710	3008
MEAN	24.3	16.1	15.7	16.5	14.9	17.0	22.1	257	663	191	120	100
MAX	30	18	17	18	16	21	38	778	1070	377	131	123
MIN	15	14	14	15	13	14	16	26	384	120	98	40
AC-FT	1490	958	964	1010	829	1040	1310	15810	39450	11720	7360	5970

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1997, BY WATER YEAR (WY)

MEAN	48.8	22.8	16.5	14.9	14.9	16.3	23.7	171	445	226	117	73.8
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1971 - 1997	
ANNUAL TOTAL	41204		44326			
ANNUAL MEAN	113		121		[a]99.4	
HIGHEST ANNUAL MEAN					180	1984
LOWEST ANNUAL MEAN					40.2	1977
HIGHEST DAILY MEAN	809	May 22	1070	Jun 1	1330	Jun 16 1995
LOWEST DAILY MEAN	[e,b]10	Mar 2	[e]13	Feb 14	[c,d].00	Dec 24 1970
ANNUAL SEVEN-DAY MINIMUM	10	Mar 2	14	Feb 21	.00	Dec 24 1970
INSTANTANEOUS PEAK FLOW			1620	Jun 5	[f]1620	Jun 5 1997
INSTANTANEOUS PEAK STAGE			3.91	Jun 5	[g]3.91	Jun 5 1997
ANNUAL RUNOFF (AC-FT)	81730		87920		72020	
10 PERCENT EXCEEDS	382		433		274	
50 PERCENT EXCEEDS	24		22		30	
90 PERCENT EXCEEDS	13		15		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 on Mar 3, and 7-8.
c-Also occurred Dec 25-31, 1970, and Jan 1-9, 1971. Result of storage in Silver Jack Dam.
d-Minimum daily discharge prior to construction of Silver Jack Dam, 8.0 ft^3/s, Dec 27-28, 1962, and Jan 13, 1963.
f-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.
g-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 NE1/4NW1/4 sec.10, T.49 N., R.7 W., Montrose County, Hydrologic Unit 14020002, on left bank 0.4 mi downstream from east portal of Gunnison tunnel, 4.7 mi downstream from Crystal Creek, and 12 mi northeast of Montrose.

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	778	812	1340	1340	1880	1690	3180	1920	3560	4220	958	1310
2	784	928	1340	1340	1880	1340	3020	1880	3550	4060	960	1310
3	787	1300	1340	1340	1880	1360	3010	1870	3550	3990	962	1290
4	802	1340	1340	1340	1840	1650	3010	1870	3440	4030	956	1290
5	811	1350	1340	1340	1820	1790	3010	1860	3550	4010	959	1290
6	810	1350	1340	1340	1880	2000	3010	1870	3560	3990	962	1290
7	810	1340	1340	1340	1880	2240	3010	1850	3560	3850	962	1270
8	806	1350	1340	1340	1880	2440	3010	1790	3550	3540	1050	1320
9	808	1350	1300	1330	1880	2660	3010	1770	3560	3250	1170	1310
10	807	1350	1290	1340	1880	2870	2980	1760	3560	3140	1180	1370
11	808	1350	1340	1410	1870	3070	2900	1770	3560	2980	1180	1390
12	807	1350	1340	1610	1870	3250	2840	1760	3560	2770	1180	1390
13	807	1350	1340	1690	1870	3440	2850	1760	3560	2580	1190	2130
14	810	1350	1340	1670	1860	3600	2810	1770	3570	2380	1250	2520
15	808	1350	1340	1730	1860	3760	2730	1760	3580	2180	1260	1920
16	807	1350	1340	1780	1860	3790	2620	1840	3580	2040	925	1370
17	806	1350	1340	1870	1860	3770	2570	1910	3570	1930	1210	1370
18	807	1370	1340	1880	1820	3780	2330	1950	3620	1840	1290	1370
19	808	1380	1340	1890	1820	3850	2110	2270	3650	1750	1310	1380
20	808	1330	1340	1890	1870	3890	2040	2700	3640	1640	1320	1250
21	806	1370	1340	1890	1860	3630	2060	3090	3650	1540	1310	937
22	808	1380	1340	1890	1860	3450	2030	3420	3630	1430	1320	683
23	813	1350	1300	1890	1840	3420	2050	3550	3610	1320	1320	646
24	813	1350	1290	1880	1840	3450	2040	3550	3930	1210	1320	639
25	813	1350	1340	1880	1830	3450	2040	3550	4690	1100	1320	640
26	813	1350	1340	1880	1830	3330	2040	3560	4730	987	1290	730
27	811	1350	1330	1880	1830	3410	2030	3550	4570	956	1300	1050
28	813	1350	1340	1880	1830	3390	2040	3550	4460	957	1300	1340
29	813	1340	1340	1880	---	3390	1990	3550	4480	957	1310	1470
30	814	1340	1340	1880	---	3390	1940	3550	4360	958	1310	1500
31	812	---	1340	1880	---	3350	---	3550	---	958	1310	---
TOTAL	25008	39530	41350	51520	51980	93900	76310	76400	113440	72543	36644	38775
MEAN	807	1318	1334	1662	1856	3029	2544	2465	3781	2340	1182	1293
MAX	814	1380	1340	1890	1880	3890	3180	3560	4730	4220	1320	2520
MIN	778	812	1290	1330	1820	1340	1940	1760	3440	956	925	639
AC-FT	49600	78410	82020	102200	103100	186300	151400	151500	225000	143900	72680	76910
a	26460	1660	609	310	443	2160	11420	30680	35830	59420	56050	41940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1997, BY WATER YEAR (WY)

MEAN	542	748	790	780	773	878	1319	3223	4113	1562	673	488
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1911 - 1997	
ANNUAL TOTAL	483462		717400			
ANNUAL MEAN	1321		1965		1325	
HIGHEST ANNUAL MEAN					2936	1984
LOWEST ANNUAL MEAN					261	1967
HIGHEST DAILY MEAN	4480	Jun 19	4730	Jun 26	18600	Jun 15 1921
LOWEST DAILY MEAN	572	Sep 24	639	Sep 24	[b].00	Sep 11 1915
ANNUAL SEVEN-DAY MINIMUM	616	Sep 20	761	Sep 21	.30	Oct 26 1950
INSTANTANEOUS PEAK FLOW			4790	Jun 26	[c]19000	Jun 15 1921
INSTANTANEOUS PEAK STAGE			7.45	Jun 26	15.80	Jun 15 1921
ANNUAL RUNOFF (AC-FT)	958900		1423000		959500	
10 PERCENT EXCEEDS	2410		3560		3200	
50 PERCENT EXCEEDS	1020		1760		600	
90 PERCENT EXCEEDS	724		814		187	

a-Diversions, in acre-feet, through Gunnison tunnel, provided by Colorado Division of Water Resources.
b-Also occurred Sep 26, 1936, Oct 8, 1949, Sep 5-6, and 15-16, 1950.
c-Present datum, from rating curve extended above 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 1997.

INSTRUMENTATION.--Water temperature sensor and logger since October 1996.

REMARKS.--Upper Colorado River Basin National Water Quality Assessment Program station (NAWQA). Daily water temperature data are good. No data May 15 to August 14, data download malfunction.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, not determined; minimum, 1.2°C on several days in February.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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...	1400	809	183	8.3	10.5	9.8	81	24	5.2	4.1	0.2	1.4
NOV												
25...	1550	1310	188	7.5	7.5	9.2	78	23	5.0	4.3	0.2	1.2
DEC												
19...	1200	1340	183	7.8	4.5	10.3	83	24	5.5	4.2	0.2	1.2
JAN												
16...	1350	1710	187	7.9	3.0	10.6	83	25	5.1	3.7	0.2	1.3
FEB												
26...	1230	1830	187	8.0	2.0	11.4	80	24	4.9	3.8	0.2	1.3
MAR												
28...	1015	3390	203	8.2	3.5	10.5	90	26	5.7	4.6	0.2	1.3
APR												
10...	1230	3000	201	7.8	3.5	11.0	88	26	5.8	5.0	0.2	1.5
29...	1315	1870	210	7.9	4.5	9.9	90	26	6.1	5.8	0.3	1.5
MAY												
14...	0840	1770	172	8.1	7.0	9.8	77	23	4.8	4.8	0.2	1.6
24...	1145	3570	155	8.0	8.5	9.4	65	19	4.3	4.4	0.2	1.5
JUN												
16...	1400	3550	151	7.8	9.0	9.6	59	17	3.8	4.3	0.2	1.7
30...	1240	4490	151	8.0	10.0	9.4	65	19	4.1	3.7	0.2	1.5
JUL												
22...	1330	1430	165	8.0	11.5	9.1	70	21	4.4	4.2	0.2	1.3
AUG												
18...	1305	1310	174	8.1	12.0	8.5	73	21	4.7	4.2	0.2	1.2
SEP												
24...	1230	635	170	8.2	13.0	8.9	73	22	4.5	3.9	0.2	1.2

09128000 GUNNISON RIVER BELOW GUNNISON TUNNEL, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	BICAR-BONATE[a] WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE[b] WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA-LINITY[c] 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)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT												
15...	80	2	69	17	0.9	0.2	11	124	105	0.17	271	0.01
NOV												
25...	90	--	74	18	0.9	0.2	11	111	108	0.15	393	<0.01
DEC												
19...	88	--	72	19	1.0	0.2	11	120	110	0.16	434	<0.01
JAN												
16...	92	--	75	16	0.9	0.1	11	115	109	0.16	531	0.01
FEB												
26...	100	--	82	15	0.9	0.2	10	116	109	0.16	573	<0.01
MAR												
28...	86	--	71	19	1.0	0.2	11	124	112	0.17	1130	<0.01
APR												
10...	98	--	80	21	1.1	0.2	11	127	120	0.17	1030	<0.01
29...	101	--	83	23	1.2	0.2	12	131	126	0.18	661	<0.01
MAY												
14...	80	--	66	16	1.1	0.1	16	123	107	0.17	588	<0.01
24...	74	--	61	14	1.0	0.1	17	108	98	0.15	1040	<0.01
JUN												
16...	69	--	57	13	0.8	0.1	17	100	92	0.14	957	<0.01
30...	73	--	60	14	0.9	0.1	14	106	94	0.14	1290	<0.01
JUL												
22...	66	--	54	16	0.9	0.2	13	114	94	0.16	440	<0.01
AUG												
18...	74	--	61	17	0.9	0.2	13	114	99	0.16	404	<0.01
SEP												
24...	--	--	69[d]	15	0.7	0.1	11	107	100	0.15	183	<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)	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)
OCT											
15...	0.05	<0.015	0.2	<0.2	0.02	<0.01	0.01	2.4	0.3	5	2
NOV											
25...	0.08	<0.015	<0.2	<0.2	0.02	<0.01	<0.01	2.4	0.2	<3	<1
DEC											
19...	0.09	<0.015	<0.2	<0.2	<0.01	0.02	0.02	2.2	0.2	<3	<1
JAN											
16...	0.10	<0.015	<0.2	<0.2	<0.01	<0.01	0.01	2.1	0.2	<3	<1
FEB											
26...	<0.05	<0.015	0.2	<0.2	<0.01	<0.01	<0.01	2.5	0.1	<3	<1
MAR											
28...	0.08	<0.015	<0.2	<0.2	0.02	<0.01	<0.01	2.1	0.2	<3	4
APR											
10...	0.08	<0.015	<0.2	<0.2	0.06	<0.01	<0.01	2.3	0.2	<3	3
29...	0.11	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	2.5	0.6	<3	<1
MAY											
14...	0.11	<0.015	<0.2	<0.2	0.03	<0.01	<0.01	2.9	0.3	12	<1
24...	0.09	<0.015	<0.2	<0.2	0.04	<0.01	0.02	3.3	0.3	9	<1
JUN											
16...	0.09	<0.015	0.2	<0.2	0.05	<0.01	0.01	3.8	--	11	3
30...	0.08	<0.015	<0.2	<0.2	0.05	<0.01	0.01	2.7	0.3	6	2
JUL											
22...	0.06	<0.015	<0.2	<0.2	0.03	<0.01	<0.01	3.0	0.4	9	<1
AUG											
18...	0.09	<0.015	<0.2	<0.2	<0.01	<0.01	0.01	3.1	0.2	13	1
SEP											
24...	<0.05	<0.015	<0.2	<0.2	0.03	<0.01	0.01	2.7	<0.2	11	2

a-Field dissolved bicarbonate, determined by incremental titration method.
b-Field dissolved carbonate, determined by incremental titration method.
c-Field total dissolved alkalinity, determined by incremental titration method.
d-Lab total dissolved alkalinity, determined by fixed end-point method.

09128000 GUNNISON RIVER BELOW GUNNISON TUNNEL, CO--Continued

(National Water-Quality Assessment Program station)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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					MAY				
03...	1335	1290	191	3.0	22...	1640	3690	152	8.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED[f] (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT				
15...	1400	809	1	2.2
NOV				
25...	1550	1310	2	7.1
DEC				
19...	1200	1340	1	3.6
JAN				
16...	1350	1710	<0.1	<0.01
FEB				
26...	1230	1830	1	4.9
MAR				
28...	1015	3390	10	92
APR				
10...	1230	3000	10	81
29...	1315	1870	15	76
MAY				
14...	0840	1770	10	48
24...	1145	3570	20	193
JUN				
16...	1400	3550	15	144
30...	1240	4490	7	85
JUL				
22...	1330	1430	4	15
AUG				
18...	1305	1310	3	11
SEP				
24...	1230	635	2	3.4

f-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 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	7.3	6.8	6.9	6.8	6.5	6.6	3.5	3.4	3.4
2	---	---	---	7.7	6.8	7.1	6.5	6.2	6.4	3.5	3.4	3.4
3	---	---	---	7.6	7.3	7.4	6.4	6.0	6.1	3.5	3.2	3.4
4	---	---	---	7.6	7.3	7.3	6.0	5.9	6.0	3.5	3.2	3.4
5	---	---	---	7.7	7.3	7.5	5.9	5.9	5.9	3.2	3.1	3.1
6	---	---	---	7.6	7.3	7.4	5.9	5.6	5.8	3.2	2.9	3.0
7	---	---	---	7.9	7.4	7.5	5.9	5.7	5.8	2.9	2.6	2.7
8	11.5	10.9	11.3	7.9	7.4	7.6	5.7	5.6	5.6	2.8	2.6	2.6
9	11.8	10.9	11.1	8.1	7.6	7.7	5.6	5.4	5.5	2.9	2.6	2.8
10	11.8	10.9	11.1	8.1	7.6	7.8	5.6	5.3	5.5	2.8	2.6	2.7
11	11.8	10.9	11.1	8.1	7.6	7.7	5.6	5.4	5.5	2.8	2.6	2.6
12	11.8	10.9	11.1	7.9	7.6	7.7	5.6	5.4	5.5	2.8	2.4	2.6
13	11.8	10.9	11.0	7.9	7.6	7.7	5.4	5.3	5.3	2.4	2.1	2.3
14	11.5	10.9	11.0	7.7	7.6	7.7	5.3	5.0	5.2	2.4	2.3	2.4
15	10.9	9.3	10.2	7.7	7.6	7.6	5.1	4.9	5.0	2.9	2.4	2.6
16	9.3	8.2	8.8	7.7	7.4	7.5	4.9	4.6	4.9	2.6	2.1	2.3
17	8.7	7.7	8.1	7.6	7.4	7.5	4.8	4.5	4.6	2.1	1.8	2.0
18	8.8	7.7	8.1	7.7	7.4	7.6	4.6	4.3	4.5	2.0	1.8	1.8
19	8.1	7.4	7.8	7.7	7.4	7.6	4.5	4.2	4.3	1.8	1.5	1.6
20	7.4	7.1	7.4	7.7	7.4	7.6	4.2	4.0	4.1	1.5	1.5	1.5
21	7.6	7.0	7.2	7.6	7.4	7.5	4.0	3.9	4.0	1.8	1.5	1.6
22	7.7	7.0	7.2	7.6	7.4	7.5	4.2	3.9	4.0	1.6	1.5	1.5
23	7.9	7.0	7.2	7.6	7.3	7.5	4.0	3.7	3.8	1.5	1.3	1.4
24	7.6	7.0	7.1	7.4	7.3	7.3	3.9	3.6	3.7	1.8	1.5	1.5
25	7.1	6.5	6.9	7.4	7.3	7.3	3.7	3.5	3.6	1.5	1.5	1.5
26	7.1	6.5	6.7	7.4	7.1	7.3	3.9	3.5	3.7	1.6	1.5	1.5
27	7.1	6.5	6.8	7.3	7.0	7.1	4.0	3.8	3.9	1.8	1.5	1.5
28	7.1	6.7	6.9	7.0	6.8	6.9	4.0	3.7	3.9	1.6	1.5	1.5
29	6.8	6.5	6.6	7.0	6.8	6.8	3.9	3.5	3.7	1.8	1.5	1.6
30	7.1	6.5	6.6	6.8	6.5	6.7	3.7	3.5	3.6	1.8	1.5	1.5
31	6.8	6.5	6.6	---	---	---	3.7	3.4	3.6	1.6	1.3	1.5
MONTH	---	---	---	8.1	6.5	7.4	6.8	3.4	4.8	3.5	1.3	2.2

		FEBRUARY			MARCH			APRIL			MAY	
1	1.6	1.3	1.4	2.4	1.8	2.0	3.4	3.1	3.2	5.1	4.3	4.6
2	1.5	1.2	1.3	2.3	1.8	2.0	3.4	3.1	3.2	5.1	4.5	4.7
3	1.5	1.2	1.3	2.6	1.8	2.1	3.5	3.1	3.3	5.1	4.6	4.8
4	1.5	1.2	1.2	2.3	2.0	2.0	3.4	3.2	3.2	5.6	4.6	5.0
5	1.3	1.2	1.2	2.4	2.0	2.1	3.4	3.1	3.2	5.7	4.8	5.1
6	1.5	1.2	1.2	2.4	2.0	2.1	3.5	3.1	3.2	6.0	4.8	5.3
7	1.5	1.2	1.2	2.4	2.0	2.1	3.2	3.1	3.1	5.7	5.1	5.4
8	1.5	1.2	1.2	2.3	2.0	2.1	3.4	3.1	3.1	6.4	5.3	5.8
9	1.5	1.2	1.2	2.4	2.0	2.1	3.4	3.1	3.2	6.7	5.7	6.2
10	1.3	1.2	1.2	2.4	2.0	2.2	3.4	3.2	3.2	7.0	6.2	6.5
11	1.5	1.2	1.2	2.6	2.1	2.3	3.4	3.2	3.3	7.1	6.4	6.7
12	1.5	1.2	1.2	2.6	2.3	2.4	3.5	3.2	3.3	7.1	6.5	6.8
13	1.5	1.2	1.3	2.6	2.3	2.4	3.5	3.1	3.3	7.4	6.5	6.9
14	1.6	1.2	1.3	2.6	2.3	2.4	3.5	3.1	3.3	7.1	6.7	7.0
15	1.8	1.3	1.5	2.8	2.4	2.5	3.7	3.2	3.4	---	---	---
16	1.8	1.5	1.6	2.6	2.4	2.5	4.0	3.4	3.6	---	---	---
17	1.8	1.5	1.6	2.8	2.4	2.6	4.2	3.5	3.8	---	---	---
18	2.0	1.6	1.7	2.9	2.6	2.7	4.2	3.7	3.9	---	---	---
19	2.1	1.6	1.7	2.9	2.6	2.7	4.3	3.7	4.0	---	---	---
20	1.8	1.6	1.7	2.9	2.6	2.7	4.5	3.9	4.0	---	---	---
21	2.1	1.6	1.8	3.1	2.8	2.8	4.2	3.9	4.0	---	---	---
22	2.1	1.6	1.8	3.1	2.8	2.9	4.5	3.9	4.1	---	---	---
23	2.1	1.8	1.9	3.2	2.9	3.0	4.3	4.0	4.2	---	---	---
24	2.1	1.6	1.8	3.1	2.9	3.0	4.5	4.2	4.3	---	---	---
25	2.1	1.6	1.9	3.2	2.9	3.0	5.1	4.3	4.6	---	---	---
26	2.3	1.6	1.9	3.4	2.8	3.0	4.8	4.3	4.4	---	---	---
27	2.1	1.8	1.9	3.2	2.9	3.1	5.1	4.3	4.6	---	---	---
28	2.1	1.8	1.9	3.4	3.1	3.2	4.9	4.5	4.6	---	---	---
29	---	---	---	3.4	3.1	3.2	4.6	4.2	4.5	---	---	---
30	---	---	---	3.5	3.1	3.2	4.9	4.2	4.5	---	---	---
31	---	---	---	3.4	3.2	3.2	---	---	---	---	---	---
MONTH	2.3	1.2	1.5	3.5	1.8	2.6	5.1	3.1	3.7	---	---	---

09128000 GUNNISON RIVER BELOW GUNNISON TUNNEL, CO--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	12.4	11.8	11.9
2	---	---	---	---	---	---	---	---	---	12.6	11.8	11.9
3	---	---	---	---	---	---	---	---	---	12.6	11.8	12.0
4	---	---	---	---	---	---	---	---	---	12.6	11.8	12.0
5	---	---	---	---	---	---	---	---	---	12.5	11.9	12.1
6	---	---	---	---	---	---	---	---	---	12.2	11.9	12.0
7	---	---	---	---	---	---	---	---	---	12.7	11.9	12.1
8	---	---	---	---	---	---	---	---	---	12.4	11.8	12.0
9	---	---	---	---	---	---	---	---	---	12.2	11.8	12.0
10	---	---	---	---	---	---	---	---	---	12.4	11.9	12.0
11	---	---	---	---	---	---	---	---	---	12.5	11.9	12.1
12	---	---	---	---	---	---	---	---	---	12.5	11.9	12.1
13	---	---	---	---	---	---	---	---	---	12.4	11.9	12.1
14	---	---	---	---	---	---	---	---	---	12.5	11.9	12.1
15	---	---	---	---	---	---	---	---	---	12.5	12.1	12.1
16	---	---	---	---	---	---	---	---	---	12.5	11.9	12.2
17	---	---	---	---	---	---	---	---	---	12.5	11.9	12.2
18	---	---	---	---	---	---	11.8	11.3	11.6	12.4	11.9	12.1
19	---	---	---	---	---	---	12.2	11.3	11.6	12.5	12.1	12.2
20	---	---	---	---	---	---	12.2	11.3	11.6	12.5	12.1	12.2
21	---	---	---	---	---	---	12.1	11.3	11.6	12.5	11.9	12.1
22	---	---	---	---	---	---	12.4	11.5	11.7	12.7	12.1	12.2
23	---	---	---	---	---	---	12.6	11.5	11.8	13.0	12.1	12.3
24	---	---	---	---	---	---	12.4	11.5	11.8	13.6	11.9	12.2
25	---	---	---	---	---	---	12.2	11.5	11.7	13.0	11.9	12.2
26	---	---	---	---	---	---	12.2	11.6	11.8	12.4	12.1	12.1
27	---	---	---	---	---	---	12.6	11.8	12.0	12.7	12.1	12.2
28	---	---	---	---	---	---	12.6	11.6	12.0	12.8	12.1	12.3
29	---	---	---	---	---	---	12.6	11.8	12.0	12.7	12.1	12.3
30	---	---	---	---	---	---	12.6	11.8	11.9	12.8	12.1	12.3
31	---	---	---	---	---	---	12.1	11.8	11.9	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	13.6	11.8	12.1

09131495 PAONIA RESERVOIR NEAR BARDINE, CO

LOCATION.--Lat 38°56'39", long 107°21'06", in NE1/4 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, 17,200 acre-ft, June 9, elevation, 6,449.09 ft; minimum contents, 1,690 acre-ft, Mar. 7, elevation, 6,383.75 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	6,381.33	1,440	-
Oct. 31	6,393.74	3,070	+1630
Nov. 30	6,391.56	2,730	-340
Dec. 31	6,388.22	2,240	-490
CAL YR 1996	-	-	-4,140
Jan. 31	6,392.16	2,820	+580
Feb. 28	6,385.66	1,910	-910
Mar. 31	6,378.82	1,210	-700
Apr. 30	6,384.33	1,750	+540
May 31	6,444.02	15,570	+13,820
June 30	6,448.12	16,910	+1,340
July 31	6,447.78	16,800	-110
Aug. 31	6,443.95	15,540	-1,260
Sept. 30	6,430.81	11,530	-4,010
WTR YR 1997	-	-	+10,090

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. 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	135	141	e110	e110	139	696	1870	2820	1050	374	250
2	97	133	147	e110	e120	137	651	1530	3230	915	314	246
3	140	137	131	e120	e110	138	660	1260	3190	873	286	238
4	132	141	140	e110	e110	136	743	1450	3210	812	282	242
5	119	142	131	e105	e110	129	685	2120	3220	778	335	236
6	117	142	136	e110	e120	132	569	2730	2970	725	392	239
7	114	135	135	e105	e110	133	488	3080	2840	689	399	251
8	111	133	134	e100	e110	135	478	3130	3130	653	312	233
9	108	136	136	e100	e110	137	467	3130	3090	642	272	227
10	106	136	137	e110	e100	143	429	3170	2570	607	406	225
11	104	138	138	e105	e110	156	408	3100	2530	579	523	243
12	102	139	133	e100	e110	177	393	3150	2410	545	397	265
13	103	140	131	e110	e110	190	392	3210	2300	532	376	242
14	104	139	124	e100	e115	181	411	3200	2170	508	373	235
15	103	139	110	e98	e120	172	472	3280	2070	493	319	239
16	106	141	131	e96	e120	204	679	3370	1920	468	278	315
17	107	136	128	e100	e120	247	1060	3180	1830	450	254	276
18	101	137	134	e110	e120	266	1530	3150	1850	449	245	265
19	103	137	e120	e110	e130	338	1890	3180	2110	436	236	256
20	115	142	e130	e110	e120	451	2030	3020	2180	438	221	251
21	108	145	e110	e110	e115	664	2130	2770	2030	404	239	257
22	104	178	e110	e110	e120	764	2070	3020	1910	394	251	322
23	108	194	e120	e110	e120	817	1780	2830	1820	484	225	315
24	108	167	e110	e105	e120	912	1450	2680	1680	437	233	294
25	112	158	e105	e110	e130	863	1570	2520	1530	381	251	279
26	112	157	e110	e110	e130	789	1480	2380	1400	347	295	275
27	112	155	e110	e110	e135	646	1440	2130	1350	324	251	331
28	119	145	e110	e110	139	547	1840	1960	1290	323	239	300
29	137	154	e110	e100	---	609	2090	1830	1230	333	233	285
30	137	150	e120	e100	---	585	2070	1860	1140	345	225	275
31	140	---	e110	e100	---	668	---	2300	---	426	225	---
TOTAL	3487	4361	3872	3294	3294	11605	33051	81590	67020	16840	9261	7907
MEAN	112	145	125	106	118	374	1102	2632	2234	543	299	264
MAX	140	194	147	120	139	912	2130	3370	3230	1050	523	331
MIN	97	133	105	96	100	129	392	1260	1140	323	221	225
AC-FT	6920	8650	7680	6530	6530	23020	65560	161800	132900	33400	18370	15680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1997, BY WATER YEAR (WY)

MEAN	117	93.2	76.9	65.4	70.9	153	732	1943	1508	460	199	151
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1934 - 1997	
ANNUAL TOTAL	176425		245582			
ANNUAL MEAN	482		673		465	
HIGHEST ANNUAL MEAN					829	1984
LOWEST ANNUAL MEAN					114	1977
HIGHEST DAILY MEAN	3140	May 17	3370	May 16	7080	May 24 1984
LOWEST DAILY MEAN	e,a54	Jan 12	e96	Jan 16	17	Nov 10 1950
ANNUAL SEVEN-DAY MINIMUM	56	Jan 9	101	Jan 11	25	Feb 17 1978
INSTANTANEOUS PEAK FLOW			3590	May 15	9220	May 24 1984
INSTANTANEOUS PEAK STAGE			5.42	May 15	b8.20	May 24 1984
ANNUAL RUNOFF (AC-FT)	349900		487100		337200	
10 PERCENT EXCEEDS	1510		2170		1530	
50 PERCENT EXCEEDS	226		239		134	
90 PERCENT EXCEEDS	72		110		53	

e-Estimated.
a-Also occurred Jan 13.
b-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.--No estimated daily discharges. Records good. 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	4.3	4.0	4.8	4.1	3.6	24	84	181	37	20	16
2	4.3	4.3	4.4	4.8	4.2	3.6	20	74	205	35	17	15
3	11	4.4	3.2	8.4	4.2	3.6	23	76	211	33	16	14
4	6.1	4.9	4.2	7.2	4.1	3.6	32	77	205	34	18	15
5	4.9	4.7	4.2	5.5	4.1	3.9	29	103	205	33	18	14
6	4.7	5.4	4.7	4.9	4.2	4.5	28	137	197	32	19	15
7	4.7	4.1	4.4	4.1	3.7	4.3	26	172	183	36	18	15
8	4.7	4.9	4.4	4.6	6.0	4.0	26	175	181	34	17	14
9	4.5	5.1	4.5	4.3	6.6	4.2	26	174	175	33	16	14
10	4.5	4.7	5.5	4.2	5.7	5.2	25	174	169	32	25	13
11	4.5	4.5	6.7	4.2	3.9	6.6	23	167	160	29	27	13
12	4.4	4.3	5.9	4.1	3.8	9.3	21	165	153	29	24	14
13	4.4	4.5	5.6	4.2	3.6	11	21	173	142	29	22	13
14	4.7	4.5	4.4	4.1	3.8	8.6	22	189	135	27	21	13
15	4.4	4.7	2.2	4.0	3.8	11	25	195	128	24	20	14
16	4.8	4.8	5.2	5.0	3.7	17	37	194	107	23	18	16
17	4.6	4.3	3.1	4.3	4.0	16	47	213	93	22	18	14
18	4.2	5.5	3.2	4.3	4.6	15	57	196	92	22	17	14
19	4.6	4.8	5.0	4.2	4.5	17	62	184	93	20	17	14
20	6.1	5.1	5.0	4.2	4.1	20	73	179	92	19	16	11
21	4.5	4.9	5.2	4.2	3.5	22	86	177	85	19	16	11
22	4.2	21	4.8	4.0	3.0	23	81	218	76	21	16	14
23	4.7	15	4.7	4.0	4.1	27	72	236	70	24	15	12
24	4.5	7.9	4.6	4.1	3.4	23	72	224	63	22	15	11
25	5.2	6.5	4.6	4.2	3.2	17	64	229	55	20	14	10
26	5.5	5.8	4.8	4.2	3.5	16	62	222	49	20	13	12
27	4.8	4.2	4.8	4.2	3.7	17	63	173	47	20	13	14
28	5.7	3.5	4.9	4.2	3.6	17	79	145	45	20	15	9.5
29	6.0	5.6	4.7	4.0	---	20	91	126	42	20	15	9.1
30	5.0	4.8	4.5	4.2	---	18	82	127	40	19	15	8.7
31	4.8	---	4.6	4.1	---	18	---	144	---	22	15	---
TOTAL	155.5	173.0	142.0	140.8	114.7	390.0	1399	5122	3679	810	546	392.3
MEAN	5.02	5.77	4.58	4.54	4.10	12.6	46.6	165	123	26.1	17.6	13.1
MAX	11	21	6.7	8.4	6.6	27	91	236	211	37	27	16
MIN	4.2	3.5	2.2	4.0	3.0	3.6	20	74	40	19	13	8.7
AC-FT	308	343	282	279	228	774	2770	10160	7300	1610	1080	778

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1997, BY WATER YEAR (WY)

MEAN	6.07	5.41	4.48	3.64	4.13	7.62	29.8	99.3	78.2	29.2	15.4	8.23
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1937 - 1997	
ANNUAL TOTAL	5724.4		13064.3			
ANNUAL MEAN	15.6		35.8		24.4	
HIGHEST ANNUAL MEAN					46.9	1993
LOWEST ANNUAL MEAN					7.97	1990
HIGHEST DAILY MEAN	100	May 19	236	May 23	340	May 28 1993
LOWEST DAILY MEAN	2.2	Dec 15	2.2	Dec 15	1.0	Nov 14 1936
ANNUAL SEVEN-DAY MINIMUM	4.0	Dec 14	3.5	Feb 21	1.4	Jan 16 1990
INSTANTANEOUS PEAK FLOW			290	May 25	359	May 28 1993
INSTANTANEOUS PEAK STAGE			2.55	May 25	[a]3.24	May 28 1993
ANNUAL RUNOFF (AC-FT)	11350		25910		17670	
10 PERCENT EXCEEDS	39		139		72	
50 PERCENT EXCEEDS	6.3		14		7.1	
90 PERCENT EXCEEDS	4.3		4.1		3.0	

a-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.--Not determined.

PERIOD OF RECORD.--July to September 1997 (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 CURRENT YEAR.--Maximum discharge during period of seasonal operation, 942 ft³/s at 0600, July 1, gage height, 9.89 ft; minimum daily, 94 ft³/s, Aug. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	848	272	135
2	---	---	---	---	---	---	---	---	---	749	177	150
3	---	---	---	---	---	---	---	---	---	755	134	127
4	---	---	---	---	---	---	---	---	---	590	129	140
5	---	---	---	---	---	---	---	---	---	548	155	146
6	---	---	---	---	---	---	---	---	---	492	243	147
7	---	---	---	---	---	---	---	---	---	444	330	190
8	---	---	---	---	---	---	---	---	---	403	225	180
9	---	---	---	---	---	---	---	---	---	388	172	160
10	---	---	---	---	---	---	---	---	---	358	287	156
11	---	---	---	---	---	---	---	---	---	336	630	157
12	---	---	---	---	---	---	---	---	---	301	421	185
13	---	---	---	---	---	---	---	---	---	283	341	189
14	---	---	---	---	---	---	---	---	---	254	339	184
15	---	---	---	---	---	---	---	---	---	236	296	196
16	---	---	---	---	---	---	---	---	---	212	226	341
17	---	---	---	---	---	---	---	---	---	200	178	313
18	---	---	---	---	---	---	---	---	---	199	157	262
19	---	---	---	---	---	---	---	---	---	204	142	249
20	---	---	---	---	---	---	---	---	---	206	116	235
21	---	---	---	---	---	---	---	---	---	187	103	258
22	---	---	---	---	---	---	---	---	---	155	119	396
23	---	---	---	---	---	---	---	---	---	203	122	410
24	---	---	---	---	---	---	---	---	---	222	96	351
25	---	---	---	---	---	---	---	---	---	166	94	335
26	---	---	---	---	---	---	---	---	---	137	148	360
27	---	---	---	---	---	---	---	---	---	137	142	455
28	---	---	---	---	---	---	---	---	---	134	111	378
29	---	---	---	---	---	---	---	---	---	138	102	338
30	---	---	---	---	---	---	---	---	---	138	97	301
31	---	---	---	---	---	---	---	---	---	314	102	---
TOTAL	---	---	---	---	---	---	---	---	---	9937	6206	7424
MEAN	---	---	---	---	---	---	---	---	---	321	200	247
MAX	---	---	---	---	---	---	---	---	---	848	630	455
MIN	---	---	---	---	---	---	---	---	---	134	94	127
AC-FT	---	---	---	---	---	---	---	---	---	19710	12310	14730

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	9.0	e4.6	e3.6	e3.8	e4.1	20	87	361	89	68	67
2	22	8.3	e4.4	e3.5	e3.9	e4.0	19	72	345	97	65	62
3	45	8.9	e4.4	e3.8	e4.0	e4.1	17	96	290	91	64	54
4	27	7.1	e4.4	e3.9	e4.0	e4.1	23	147	284	97	75	57
5	23	7.2	e4.5	e3.8	e4.1	e4.0	21	181	281	92	80	55
6	20	6.9	e4.4	e3.7	e4.4	e3.9	18	213	266	88	87	56
7	19	e5.6	e4.6	e3.7	e4.1	e3.9	18	232	262	85	80	55
8	18	e5.0	e4.4	e3.6	e4.0	e4.3	12	227	361	86	73	53
9	19	e4.7	e4.5	e3.6	e4.0	e4.5	11	232	371	96	71	52
10	18	e5.0	e4.8	e3.6	e3.9	e4.9	11	223	339	96	88	50
11	18	e4.8	e4.8	e3.6	e3.8	e5.6	e10	218	300	108	48	49
12	17	e5.0	e4.7	e3.6	e4.0	e6.8	e9.7	231	249	105	42	44
13	17	e5.1	e4.5	e3.7	e4.1	e7.6	e10	226	310	102	41	40
14	20	e5.0	e4.3	e3.8	e4.1	e7.0	e11	231	243	101	39	38
15	18	e5.0	e4.1	e3.4	e4.2	e8.0	12	252	206	96	36	33
16	19	e4.7	e4.1	e3.4	e4.3	e9.0	23	267	183	79	34	30
17	18	e4.6	e4.2	e3.5	e4.5	10	49	259	177	80	33	24
18	18	e4.8	e3.9	e3.7	e4.5	9.9	76	258	171	91	29	25
19	18	e5.2	e3.8	e3.7	e4.7	11	93	257	170	92	30	19
20	18	e5.8	e4.0	e3.9	e4.5	12	105	233	167	96	43	30
21	18	e5.4	e3.5	e3.8	e4.5	17	99	256	159	102	45	69
22	25	e5.6	e3.6	e3.8	e4.3	17	79	304	155	100	53	46
23	19	e5.8	e3.6	e3.8	e4.3	18	79	308	147	104	53	33
24	17	e5.6	e3.6	e3.8	e4.4	21	61	320	133	98	55	26
25	15	e5.4	e3.5	e3.8	e4.6	18	43	331	123	82	52	23
26	15	e5.4	e3.6	e3.8	e4.5	16	45	316	116	76	57	53
27	20	e5.0	e3.7	e3.7	e4.5	18	73	241	113	74	82	43
28	18	e4.7	e3.8	e3.7	e4.4	20	108	218	106	68	81	29
29	18	e4.9	e3.8	e3.7	---	22	107	216	98	70	81	24
30	19	e4.8	e3.7	e3.6	---	20	97	247	92	73	80	22
31	15	---	e3.7	e3.7	---	21	---	309	---	73	78	---
TOTAL	605	170.3	127.5	114.3	118.4	336.7	1359.7	7208	6578	2787	1843	1261
MEAN	19.5	5.68	4.11	3.69	4.23	10.9	45.3	233	219	89.9	59.5	42.0
MAX	45	9.0	4.8	3.9	4.7	22	108	331	371	108	88	69
MIN	14	4.6	3.5	3.4	3.8	3.9	9.7	72	92	68	29	19
AC-FT	1200	338	253	227	235	668	2700	14300	13050	5530	3660	2500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1997, BY WATER YEAR (WY)

MEAN	17.2	7.64	5.41	5.05	5.09	6.86	34.0	128	140	78.0	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1939 - 1997	
ANNUAL TOTAL	11855.4		22508.9			
ANNUAL MEAN	32.4		61.7		43.3	
HIGHEST ANNUAL MEAN					75.7	1983
LOWEST ANNUAL MEAN					10.6	1977
HIGHEST DAILY MEAN	168	May 17	371	Jun 9	695	Jun 16 1995
LOWEST DAILY MEAN	e,a 3.5	Dec 8	e,b 3.4	Jan 15	.80	Jan 15 1977
ANNUAL SEVEN-DAY MINIMUM	3.6	Dec 21	3.6	Jan 11	.89	Jan 9 1977
INSTANTANEOUS PEAK FLOW			588	Jun 7	892	Jun 15 1995
INSTANTANEOUS PEAK STAGE			3.17	Jun 7	c 3.79	Jun 15 1995
ANNUAL RUNOFF (AC-FT)	23520		44650		31340	
10 PERCENT EXCEEDS	82		220		115	
50 PERCENT EXCEEDS	17		20		16	
90 PERCENT EXCEEDS	4.4		3.8		3.7	

e-Estimated.
a-Also occurred Dec 25.
b-Also occurred Jan 16.
c-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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	2.3	3.1	1.4	2.5	2.9	23	66	218	58	31	23
2	20	2.7	e3.0	1.3	2.4	3.2	22	45	227	53	30	21
3	44	3.0	e2.9	2.5	2.5	3.0	25	66	189	47	27	16
4	25	2.8	e2.8	4.4	2.6	2.9	35	128	183	53	25	19
5	20	2.7	2.4	3.5	2.8	3.0	24	171	169	50	25	20
6	18	2.4	2.4	2.7	2.9	3.3	19	227	151	47	28	22
7	17	1.4	2.4	e2.5	2.6	3.3	18	263	145	43	24	20
8	15	2.7	2.2	2.5	e2.8	3.3	16	236	280	41	18	18
9	16	2.1	2.5	2.3	3.1	3.2	16	226	259	45	16	17
10	15	2.0	1.8	2.4	3.1	3.8	15	189	204	41	28	17
11	14	2.0	1.9	2.5	3.0	4.8	13	175	178	49	21	17
12	14	2.0	2.1	2.5	3.1	6.1	14	186	138	45	19	21
13	13	2.4	1.9	2.6	2.9	7.3	14	166	181	42	21	18
14	16	2.6	1.5	2.7	3.5	6.5	15	171	132	40	19	17
15	14	3.0	e1.3	2.5	2.3	5.5	18	168	114	37	18	19
16	13	2.0	e1.3	e2.3	2.5	7.2	36	178	99	36	18	20
17	13	2.6	e1.1	e2.1	2.7	9.6	78	161	86	39	17	17
18	13	2.6	1.0	e2.0	2.9	9.8	106	147	76	40	20	20
19	13	2.8	e1.8	2.0	3.0	12	124	133	76	38	20	16
20	13	3.2	e1.9	2.2	3.0	19	144	105	69	38	24	23
21	12	3.6	2.0	2.3	3.1	26	139	109	60	39	22	70
22	14	5.1	e2.0	2.6	3.7	27	109	188	50	35	24	47
23	13	8.6	e1.9	2.5	3.2	32	101	186	42	38	23	30
24	11	5.3	e1.7	2.5	2.6	32	83	241	60	36	23	25
25	11	5.0	e1.5	2.1	3.6	23	58	236	57	30	22	22
26	12	4.2	e1.6	2.4	3.9	20	57	181	55	29	25	41
27	12	2.8	e1.7	2.5	2.8	27	83	129	59	28	30	46
28	11	e2.8	e1.8	2.3	2.8	28	116	103	58	32	27	28
29	8.7	e3.0	1.8	2.3	---	29	102	93	56	34	28	24
30	8.5	3.2	1.7	2.2	---	25	79	111	59	33	27	24
31	7.8	---	1.6	2.4	---	26	---	153	---	33	28	---
TOTAL	459.0	92.9	60.6	75.0	81.9	414.7	1702	4937	3730	1249	728	738
MEAN	14.8	3.10	1.95	2.42	2.92	13.4	56.7	159	124	40.3	23.5	24.6
MAX	44	8.6	3.1	4.4	3.9	32	144	263	280	58	31	70
MIN	7.8	1.4	1.0	1.3	2.3	2.9	13	45	42	28	16	16
AC-FT	910	184	120	149	162	823	3380	9790	7400	2480	1440	1460

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 1997, BY WATER YEAR (WY)

MEAN	10.6	5.17	3.38	3.18	3.30	4.82	34.4	109	84.5	36.0	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1918 - 1997	
ANNUAL TOTAL	7948.9		14268.1			
ANNUAL MEAN	21.7		39.1		27.8	
HIGHEST ANNUAL MEAN					62.5	1983
LOWEST ANNUAL MEAN					7.87	1977
HIGHEST DAILY MEAN	108	May 5	280	Jun 8	640	May 30 1920
LOWEST DAILY MEAN	1.0	Dec 18	1.0	Dec 18	[a].00	Sep 25 1939
ANNUAL SEVEN-DAY MINIMUM	1.4	Dec 13	1.4	Dec 13	.11	Mar 12 1954
INSTANTANEOUS PEAK FLOW			510	Jun 8	[b]1190	May 13 1941
INSTANTANEOUS PEAK STAGE			2.73	Jun 8	[c]2.50	May 13 1941
ANNUAL RUNOFF (AC-FT)	15770		28300		20160	
10 PERCENT EXCEEDS	63		132		73	
50 PERCENT EXCEEDS	13		18		9.5	
90 PERCENT EXCEEDS	2.3		2.2		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.--Lat 38°45'01", long 108°04'06", in SE¼NE¼ sec.13, T.15 S., R.96 W., Delta County, Hydrologic Unit 14020005, on left bank near upstream side of U.S. Highway 50 bridge at north edge of Delta.

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.--Water-stage recorder with satellite telemetry. Datum of gage is 4,919.97 ft above sea level, National Weather Service Datum (levels by National Weather Service). Prior to May 1976 nonrecording gage at present site and datum.

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 0.7 mi downstream to collect streamflow data during bridge construction at principal site, 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 present datum, (discharge not determined).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1200	1420	1560	1450	1780	1770	4560	4820	8360	5350	1420	1530
2	1210	1410	1560	1450	1780	1600	4290	4110	8990	5090	1210	1530
3	1320	1530	1540	1480	1780	1520	4310	3550	8720	5010	1170	1480
4	1330	1610	1530	1510	1770	1660	4680	3740	8630	4890	1190	1520
5	1280	1580	1530	1480	1750	1750	4540	4750	8370	4850	1270	1550
6	1250	1590	1550	1480	1780	1940	4220	6070	8160	4740	1360	1550
7	1250	1570	1540	1460	1790	2200	3990	6950	7700	4610	1430	1670
8	1280	1560	1530	1460	1770	2450	e3900	6910	8550	4190	1340	1650
9	1270	1560	1540	1470	1760	2700	e3700	6730	9720	3790	1390	1610
10	1280	1580	1530	1480	1780	2940	e3550	6620	8690	3560	1640	1640
11	1280	1580	1560	1480	1780	3230	e3500	6310	8570	3410	2110	1660
12	1280	1580	1550	1550	1780	3530	3580	6330	7980	3140	1880	1700
13	1280	1590	1540	1630	1800	3870	3560	6610	7970	2900	1770	1720
14	1270	1590	1530	1620	1770	4110	3560	6630	7570	2660	1800	1760
15	1280	1600	e1450	1630	1790	4290	3590	6740	7260	2410	1830	1830
16	1290	1640	e1400	1630	1790	4450	3750	6860	6890	2200	1510	1990
17	1310	1600	e1400	1700	1790	4610	4540	7070	6600	2070	1490	1940
18	1320	1590	e1350	1710	1790	4610	5310	6800	6350	1950	1560	1910
19	1320	1600	e1400	1720	1780	4770	5580	7060	6650	1910	1550	1880
20	1350	1590	e1450	1730	1820	5010	5850	7260	6730	1800	1510	1840
21	1360	1580	e1450	1750	1820	5070	5950	7180	6410	1700	1450	1820
22	1360	1600	e1400	1740	1800	4990	5550	8530	6080	1550	1370	1700
23	1360	1730	e1400	1740	1800	5020	5180	9320	5810	1440	1360	1510
24	1370	1650	1440	1740	1810	5260	4670	8960	5570	1400	1330	1370
25	1380	1620	1460	1730	1790	4930	4230	9380	6600	1220	1310	1300
26	1400	1600	1470	1760	1790	4640	4320	9470	6530	1000	1320	1330
27	1390	1590	1480	1780	1800	4730	4000	8200	6190	943	1450	1810
28	1390	1560	1480	1780	1800	4540	4910	7570	5880	1040	1350	1960
29	1440	1570	1470	1770	---	4730	5290	7100	5830	1100	1350	2100
30	1420	1590	1460	1760	---	4490	5070	6970	5580	1190	1410	2140
31	1420	---	1450	1770	---	4640	---	7460	---	1360	1420	---
TOTAL	40940	47460	46000	50440	50040	116050	133730	212060	218940	84473	45550	51000
MEAN	1321	1582	1484	1627	1787	3744	4458	6841	7298	2725	1469	1700
MAX	1440	1730	1560	1780	1820	5260	5950	9470	9720	5350	2110	2140
MIN	1200	1410	1350	1450	1750	1520	3500	3550	5570	943	1170	1300
AC-FT	81200	94140	91240	100000	99250	230200	265300	420600	434300	167600	90350	101200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1997, BY WATER YEAR (WY)

MEAN	1354	1528	1613	1640	1703	2013	2611	4808	4432	2337	1177	1208
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1976 - 1997	
ANNUAL TOTAL	735624		1096683			
ANNUAL MEAN	2010		3005		2228	
HIGHEST ANNUAL MEAN					4670	1984
LOWEST ANNUAL MEAN					601	1990
HIGHEST DAILY MEAN	7110	May 17	9720	Jun 9	20300	Jun 7 1984
LOWEST DAILY MEAN	e850	Jul 25	943	Jul 27	208	Aug 11 1977
ANNUAL SEVEN-DAY MINIMUM	874	Jul 22	1120	Jul 25	215	Aug 10 1977
INSTANTANEOUS PEAK FLOW			10500	Jun 9	25500	Jun 7 1984
INSTANTANEOUS PEAK STAGE			8.64	Jun 9	13.15	Jun 7 1984
ANNUAL RUNOFF (AC-FT)	1459000		2175000		1614000	
10 PERCENT EXCEEDS	4130		6730		4440	
50 PERCENT EXCEEDS	1480		1770		1570	
90 PERCENT EXCEEDS	1020		1350		516	

e-Estimated.

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.--Records good except for estimated daily discharges, which are fair. 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	89	e72	63	64	56	129	161	1160	663	348	193
2	77	87	e71	63	64	e54	120	147	1340	594	315	175
3	373	92	e70	68	63	57	112	144	1120	565	316	164
4	223	91	71	65	61	58	144	177	1270	545	319	182
5	180	88	70	64	63	e53	130	230	1280	514	351	184
6	165	85	73	63	64	e50	110	293	1160	479	358	202
7	156	79	71	61	e58	e54	104	316	922	426	336	185
8	148	78	71	61	e56	59	99	309	931	408	287	162
9	142	80	72	61	e56	61	100	286	865	403	293	151
10	138	80	75	61	e56	64	97	271	719	397	442	156
11	131	80	80	61	e53	72	95	332	755	407	384	162
12	125	80	77	62	e56	88	91	407	827	389	303	199
13	120	80	75	61	e56	105	86	493	796	421	290	167
14	116	80	73	63	e56	99	86	521	725	433	274	171
15	110	79	66	e54	61	99	90	574	741	429	245	208
16	107	81	67	e54	62	118	98	690	701	415	225	293
17	101	77	64	e56	63	122	130	643	702	393	209	208
18	97	81	67	e60	64	109	144	640	854	394	199	188
19	98	87	61	61	65	119	169	636	960	375	190	179
20	105	92	68	64	66	152	203	576	1060	392	187	172
21	100	86	57	62	64	171	229	598	1070	380	182	250
22	98	88	59	61	e56	158	211	590	1020	355	178	299
23	103	93	60	62	e58	159	177	504	988	398	183	261
24	97	86	e58	62	64	158	160	475	881	399	183	223
25	93	86	e56	62	64	123	145	451	740	368	208	199
26	89	85	60	63	60	126	137	410	688	337	291	185
27	90	83	61	63	57	125	140	350	651	354	255	188
28	104	76	62	62	57	116	178	327	629	386	210	171
29	103	79	61	61	---	131	173	324	669	365	190	157
30	97	79	61	60	---	126	160	446	676	370	188	148
31	94	---	62	61	---	123	---	760	---	373	199	---
TOTAL	3858	2507	2071	1905	1687	3165	4047	13081	26900	13127	8138	5782
MEAN	124	83.6	66.8	61.5	60.3	102	135	422	897	423	263	193
MAX	373	93	80	68	66	171	229	760	1340	663	442	299
MIN	77	76	56	54	53	50	86	144	629	337	178	148
AC-FT	7650	4970	4110	3780	3350	6280	8030	25950	53360	26040	16140	11470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1997, BY WATER YEAR (WY)

MEAN	88.0	67.5	51.7	44.3	45.4	59.8	112	327	602	341	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1959 - 1997	
ANNUAL TOTAL	56466		86268			
ANNUAL MEAN	154		236		168	
HIGHEST ANNUAL MEAN					270	1984
LOWEST ANNUAL MEAN					72.6	1977
HIGHEST DAILY MEAN	841	May 17	1340	Jun 2	1740	Jun 24 1983
LOWEST DAILY MEAN	e40	Jan 27	e50	Mar 6	26	Jan 13 1963
ANNUAL SEVEN-DAY MINIMUM	44	Jan 25	55	Mar 1	30	Feb 13 1990
INSTANTANEOUS PEAK FLOW			1810	Jun 1	a2100	Jun 24 1983
INSTANTANEOUS PEAK STAGE			5.31	Jun 1	5.73	Jun 24 1983
ANNUAL RUNOFF (AC-FT)	112000		171100		121400	
10 PERCENT EXCEEDS	427		610		438	
50 PERCENT EXCEEDS	83		130		79	
90 PERCENT EXCEEDS	47		61		42	

e-Estimated.
a-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 current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1996 to September 1997.

INSTRUMENTATION.--Water temperature sensor and logger since October 8, 1996.

REMARKS.--Upper Colorado River Basin National Water Quality Assessment Program station (NAWQA). Daily water temperature data are good. Missing data in September caused when sensor washed up on bank.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 19.3°C, Aug. 19-20, 22, Sep 2, 5; minimum, 0°C, on many days December to March.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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											
25...	1330	94	633	8.2	8.0	9.6	280	95	11	18	0.5
NOV											
26...	1040	82	683	8.0	4.0	10.4	290	96	12	21	0.5
DEC											
23...	1130	60	744	8.0	2.0	11.2	340	110	15	26	0.6
JAN											
15...	1045	61	840	8.0	0.5	11.8	400	130	18	28	0.6
FEB											
26...	0900	61	764	8.0	0.0	11.6	330	110	13	26	0.6
MAR											
13...	1330	91	836	8.2	9.0	9.5	340	100	23	40	0.9
APR											
01...	1120	126	630	7.8	6.5	9.7	280	92	13	21	0.5
15...	1045	90	693	8.2	7.0	10.0	310	100	14	24	0.6
MAY											
01...	1015	161	499	7.9	5.5	9.5	230	77	9.1	14	0.4
15...	0930	513	262	7.8	6.0	9.8	110	39	3.6	4.9	0.2
JUN											
02...	1410	1080	215	7.3	10.0	9.0	85	30	2.5	4.0	0.2
26...	1310	661	278	7.6	11.0	8.6	130	47	4.4	5.2	0.2
JUL											
16...	1050	425	381	8.1	14.0	7.9	160	53	6.3	8.6	0.3
23...	1245	379	400	8.1	15.5	7.5	170	59	6.7	9.4	0.3
AUG											
15...	1000	252	470	8.1	11.5	8.6	200	66	7.7	12	0.4
SEP											
08...	1700	159	543	7.4	18.5	7.4	240	80	8.6	14	0.4

09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE[a] WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY[b] 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											
25...	1.8	115	94	220	3.6	0.5	10	416	417	0.57	106
NOV											
26...	1.8	124	102	240	4.3	0.6	10	462	447	0.63	102
DEC											
23...	2.0	149	122	260	5.2	0.6	11	529	504	0.72	85.7
JAN											
15...	2.1	148	121	310	5.7	0.5	12	593	580	0.81	97.7
FEB											
26...	2.3	129	106	280	5.9	0.6	11	552	513	0.75	90.9
MAR											
13...	3.1	143	117	310	7.6	0.5	9.8	601	565	0.82	148
APR											
01...	1.8	106	87	220	4.6	0.5	9.9	447	417	0.61	152
15...	2.3	134	110	250	5.2	0.5	10	491	469	0.67	119
MAY											
01...	1.4	107	88	160	2.7	0.4	9.7	341	332	0.46	148
15...	0.9	52	43	75	1.0	0.2	6.9	168	158	0.23	233
JUN											
02...	0.8	48	39	55	0.7	0.2	5.9	138	123	0.19	402
26...	0.8	57	47	81	1.1	0.3	6.8	180	175	0.24	321
JUL											
16...	1.1	71	58	110	1.4	0.3	7.5	253	223	0.34	290
23...	1.1	84	69	110	1.5	0.3	7.6	263	242	0.36	269
AUG											
15...	1.3	90	74	150	2.1	0.4	8.6	322	293	0.44	219
SEP											
08...	1.6	84	69	180	2.8	0.5	9.2	383	340	0.52	164

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 DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)
OCT										
25...	<0.01	0.12	0.02	<0.2	<0.2	<0.01	<0.01	<0.01	0.7	0.3
NOV										
26...	<0.01	0.11	0.03	<0.2	<0.2	<0.01	<0.01	<0.01	0.8	0.3
DEC										
23...	<0.01	0.15	0.05	<0.2	<0.2	<0.01	<0.01	0.02	0.7	0.4
JAN										
15...	<0.01	0.13	0.03	<0.2	<0.2	<0.01	<0.01	<0.01	0.8	0.3
FEB										
26...	<0.01	0.09	0.04	0.2	<0.2	<0.01	<0.01	<0.01	1.1	0.4
MAR										
13...	0.02	0.17	0.04	0.3	<0.2	0.10	0.03	<0.01	3.2	0.8
APR										
01...	<0.01	0.17	0.02	<0.2	<0.2	0.04	0.02	<0.01	1.5	0.3
15...	<0.01	0.18	0.05	<0.2	<0.2	<0.01	0.01	<0.01	1.0	0.4
MAY										
01...	<0.01	0.15	<0.015	<0.2	<0.2	0.02	<0.01	<0.01	1.4	0.6
15...	<0.01	0.12	0.02	0.2	<0.2	0.34	<0.01	<0.01	1.6	1.4
JUN										
02...	<0.01	0.15	0.02	1.2	<0.2	1.27	<0.01	<0.01	1.8	4.8
26...	<0.01	0.15	<0.015	<0.2	<0.2	0.12	<0.01	<0.01	0.8	0.4
JUL										
16...	<0.01	0.13	0.02	<0.2	<0.2	0.02	<0.01	0.01	0.9	0.3
23...	<0.01	0.11	0.02	<0.2	<0.2	0.02	<0.01	<0.01	0.8	0.5
AUG										
15...	<0.01	0.14	0.02	<0.2	<0.2	0.02	<0.01	<0.01	0.9	0.4
SEP										
08...	<0.01	0.14	<0.015	<0.2	<0.2	0.09	<0.01	<0.01	0.8	0.3

a-Field dissolved bicarbonate, determined by incremental titration method.
b-Field total dissolved alkalinity, determined by incremental titration method.

09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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									
25...	33	<1	2	38	<1	<1	<1	1	3
NOV									
26...	28	<1	2	38	<1	<1	<1	1	4
DEC									
23...	18	<1	3	36	<1	<1	2	<1	3
JAN									
15...	16	<1	3	36	<1	<1	<1	1	3
FEB									
26...	19	<1	4	37	<1	<1	1	1	4
MAR									
13...	28	<1	2	37	<1	<1	1	<1	4
APR									
01...	31	<1	1	39	<1	<1	1	1	5
15...	25	<1	3	41	<1	<1	1	1	4
MAY									
01...	29	<1	1	38	<1	<1	2	1	6
15...	47	<1	<1	26	<1	<1	<1	<1	6
JUN									
02...	58	<1	<1	23	<1	<1	<1	<1	3
26...	57	<1	<1	29	<1	<1	<1	<1	2
JUL									
16...	57	<1	<1	33	<1	<1	2	<1	3
23...	64	<1	1	33	<1	<1	1	<1	2
AUG									
15...	57	<1	<1	38	<1	<1	<1	1	4
SEP									
08...	112	<1	1	45	<1	<1	<1	1	3

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									
25...	<3	<1	104	2	1	<1	<1	25	<1
NOV									
26...	21	<1	115	2	1	<1	<1	28	<1
DEC									
23...	<3	<1	82	2	2	<1	<1	25	1
JAN									
15...	<3	<1	108	2	2	<1	<1	33	1
FEB									
26...	<3	<1	155	2	2	<1	<1	37	<1
MAR									
13...	6	<1	119	3	2	<1	<1	15	2
APR									
01...	<3	<1	136	2	2	<1	<1	40	1
15...	<3	<1	129	2	2	<1	<1	34	1
MAY									
01...	<3	<1	166	2	2	<1	<1	55	<1
15...	4	<1	117	<1	<1	<1	<1	39	<1
JUN									
02...	<3	<1	37	1	<1	<1	<1	5	<1
26...	<3	<1	75	1	1	<1	<1	24	<1
JUL									
16...	<3	<1	76	2	1	<1	<1	21	<1
23...	<3	<1	81	2	1	--	<1	18	<1
AUG									
15...	<3	<1	108	2	2	<1	<1	24	<1
SEP									
08...	<3	<1	134	2	2	<1	<1	7	<1

09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO--Continued

(National Water-Quality Assessment Program station)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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				
25...	1340	92	633	8.0
NOV				
04...	1315	91	663	10.5
26...	1100	82	683	4.0
DEC				
23...	1150	60	744	2.0
JAN				
15...	1100	60	840	0.5
FEB				
26...	0915	62	764	0.0
26...	1245	62	660	4.5
MAR				
13...	1340	92	836	9.0
19...	1140	101	750	7.0
27...	1610	115	653	11.5
APR				
01...	1140	126	630	6.5
08...	1445	90	--	11.0
15...	1055	90	693	7.0
24...	1200	154	562	9.0
MAY				
01...	1040	161	499	5.5
07...	1140	302	375	9.0
15...	1000	509	262	6.0
16...	1025	689	255	7.0
22...	1030	565	281	6.5
30...	1040	383	335	10.0
JUN				
02...	1350	1110	215	10.0
13...	1250	786	284	11.5
17...	1200	650	296	13.5
26...	1245	666	278	11.0
JUL				
08...	1315	409	404	13.0
10...	1145	394	410	13.0
16...	1130	421	381	14.0
23...	1230	381	415	15.0
AUG				
15...	1015	252	470	11.5
21...	1205	182	543	14.5
SEP				
08...	1715	157	543	18.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	SAMPLER[d] TYPE (CODE) (84164)	MEDIUM CODE
OCT							
25...	1330	94	99[c]	25		3045	9
25...	1340	92	10	2.5	--	3044	9
NOV							
26...	1040	82	13[c]	2.9	--	3044	9
26...	1100	82	15	3.3	--	3044	9
DEC							
23...	1130	60	10[c]	1.6	--	3044	9
23...	1150	60	12	1.9	--	3044	9
JAN							
15...	1045	61	8[c]	1.3	--	3044	9
15...	1100	60	11	1.8	--	3044	9
FEB							
26...	0900	61	14[c]	2.3	--	3045	9
26...	0915	62	15	2.5	--	3045	9
MAR							
13...	1330	91	70[c]	17	--	3044	9
13...	1340	92	83	21	--	3044	9
27...	1610	115	42	13	94	3044	9
APR							
01...	1120	126	21[c]	7.1	--	3044	9
01...	1140	126	24	8.2	87	3044	9
15...	1045	90	12[c]	2.9	--	3044	9
15...	1055	90	11	2.7	--	3044	9
24...	1200	154	21	8.7	82	3044	9
MAY							
01...	1015	161	39[c]	17	--	3044	9
07...	1140	302	150	122	78	3044	9
15...	0930	513	296[c]	410	--	3039	9
15...	1000	509	269	370	82	3009	9
22...	1030	565	130	198	62	3009	9
30...	1040	383	87	90	--	3009	9

c-Suspended-sediment concentration determined from a subsample split of a composite sample.
d-Code 3009 is a D-74 suspended-sediment sampler;Code 3039 is a D-77TM water-quality sampler; code 3044 and 3045 are water-quality and suspended-sediment samplers.

09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO--Continued

(National Water-Quality Assessment Program station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	SAMPLER[d] TYPE (CODE) (84164)	MEDIUM[f] CODE
JUN							
02...	1350	1110	1160	3480	71	3009	9
02...	1410	1080	1120[c]	3270	--	3039	9
02...	1411	1110	1120[c]	3360	--	3039	R
13...	1250	786	322	683	55	3009	9
17...	1200	650	324	569	54	3009	9
26...	1245	666	228	410	37	3009	9
26...	1310	661	162[c]	289	--	3039	9
JUL							
08...	1315	409	50	55	46	3044	9
10...	1145	394	115	122	29	3044	9
16...	1050	425	38[c]	44	--	3044	9
16...	1130	421	51	58	74	3044	9
23...	1245	379	45	46	--	3039	9
AUG							
15...	1000	252	28[c]	19	--	3044	9
15...	1015	252	89	61	78	3044	9
SEP							
08...	1700	159	107[c]	46	--	3044	9
08...	1705	150	100[c]	41	--	3044	R
08...	1715	157	88	37	96	3044	9

c-Suspended-sediment concentration determined from a subsample split of a composite sample.
d-Code 3009 is a D-74 suspended-sediment sampler;Code 3039 is a D-77TM water-quality sampler;code 3044 and 3045 are water-quality and suspended-sediment samplers.
f-A medium code of 9 is a regular sample; a code of R is a replicate sample.

TEMPERATURE WATER, (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	9.5	4.2	6.2	6.7	.0	2.6	6.6	2.4	4.3
2	---	---	---	9.7	2.5	5.6	5.3	1.4	3.0	8.1	2.7	4.9
3	---	---	---	7.7	4.6	5.8	5.3	.0	2.2	4.9	2.4	3.7
4	---	---	---	10.8	5.7	7.5	5.2	.6	2.5	6.0	2.0	3.6
5	---	---	---	8.0	4.6	6.2	5.0	.4	2.9	4.4	.9	2.4
6	---	---	---	6.0	3.6	5.0	4.4	1.7	3.3	4.2	.8	2.2
7	---	---	---	8.0	1.7	4.3	6.1	1.4	3.2	3.6	.0	1.3
8	---	---	---	8.3	1.9	4.7	6.4	.8	3.1	5.3	.9	2.6
9	14.8	7.1	10.3	9.2	2.7	5.3	6.0	1.2	3.5	5.3	1.1	2.8
10	15.1	7.4	10.5	9.4	2.8	5.6	7.2	3.9	5.3	4.9	2.7	3.4
11	15.0	7.2	10.5	9.5	2.5	5.5	7.8	4.4	5.5	4.7	2.8	3.4
12	15.0	7.2	10.4	9.4	2.8	5.6	7.7	3.0	4.8	6.9	2.2	3.8
13	14.7	7.1	10.2	9.7	3.6	6.2	7.7	2.2	4.6	5.0	1.7	3.0
14	13.1	8.1	10.2	8.3	4.1	6.1	5.5	1.6	3.6	4.4	1.6	2.5
15	13.6	6.3	9.4	6.3	4.7	5.6	4.7	.3	2.1	4.6	.0	1.6
16	10.9	6.7	8.5	4.9	1.9	3.6	4.6	2.0	3.0	3.8	.0	.9
17	11.2	5.5	7.8	4.4	1.1	2.9	3.5	.0	1.2	3.8	.0	.9
18	12.0	3.5	7.2	8.4	4.2	5.8	1.1	.0	.2	5.2	.0	1.7
19	12.0	6.3	8.5	9.1	3.3	5.8	2.5	.0	1.0	6.1	.0	2.4
20	8.0	5.0	6.3	9.7	4.7	6.5	3.3	.0	1.3	4.7	.3	2.4
21	7.4	3.9	5.2	8.4	3.2	5.7	3.9	2.4	2.9	5.7	1.9	3.4
22	9.2	1.7	5.0	7.5	6.1	6.8	4.9	2.2	3.1	5.2	.9	2.8
23	10.3	2.8	6.0	6.1	4.4	5.4	4.4	.5	2.3	5.2	2.5	3.5
24	9.1	3.3	6.0	7.5	3.0	4.8	4.9	.0	1.5	5.5	1.6	3.4
25	9.5	4.9	6.8	8.0	3.6	5.2	5.7	.3	2.5	2.7	.9	1.8
26	8.8	2.5	5.2	6.3	2.8	4.3	5.3	2.5	3.8	5.3	2.7	4.0
27	7.7	3.9	5.5	6.6	1.7	3.9	5.7	3.5	4.3	6.0	2.7	4.2
28	7.5	4.9	6.1	6.1	.3	2.9	6.4	2.7	4.3	5.8	.0	3.0
29	8.4	3.2	5.2	5.2	3.2	3.9	6.1	1.4	3.4	6.4	2.9	4.3
30	10.0	3.6	6.2	5.2	.6	3.2	6.6	2.4	4.2	6.7	.1	3.1
31	8.1	3.5	5.6	---	---	---	7.8	3.2	5.0	7.4	.9	3.9
MONTH	---	---	---	10.8	.3	5.2	7.8	.0	3.1	8.1	.0	2.9

09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO--Continued
(National Water-Quality Assessment Program station)

TEMPERATURE WATER, (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.4	2.2	5.1	8.4	.9	3.9	8.0	3.8	5.5	11.9	5.0	7.5
2	5.5	1.7	3.6	9.4	.0	4.0	10.3	3.5	6.4	13.9	3.5	8.0
3	7.7	2.7	4.6	9.2	.9	4.5	12.2	4.6	8.0	15.6	5.2	9.7
4	6.3	.9	3.3	4.6	1.5	2.9	7.3	3.8	5.3	13.1	5.2	9.1
5	6.3	1.2	3.4	7.5	.0	2.7	8.4	2.7	4.8	13.9	5.0	9.1
6	4.2	1.4	2.4	8.9	.0	3.7	10.5	1.1	4.9	10.8	5.2	8.1
7	6.9	.8	3.0	10.2	.1	4.7	10.5	2.2	5.6	13.3	5.3	8.3
8	5.8	.0	1.8	9.5	1.1	4.9	11.1	3.0	7.0	11.4	4.9	7.5
9	6.4	.0	2.3	10.9	1.6	5.7	11.9	5.2	7.8	10.9	4.9	7.3
10	5.3	.0	2.1	11.4	1.6	5.9	7.5	2.6	5.4	12.9	4.2	8.3
11	8.3	1.6	4.2	11.4	1.6	5.9	8.1	1.9	4.7	13.6	4.2	8.4
12	7.4	.3	3.5	10.9	2.0	5.6	8.4	1.9	4.9	13.7	5.0	8.6
13	7.2	1.4	3.5	10.2	2.2	5.3	12.2	.9	6.1	12.9	3.9	7.8
14	6.3	.0	2.3	8.4	2.0	4.6	13.4	1.9	7.2	11.7	4.1	7.6
15	8.6	1.6	4.3	9.4	2.7	5.6	12.8	4.1	8.4	13.6	4.6	8.3
16	8.1	.3	4.0	10.3	3.5	6.0	15.1	3.9	9.0	11.1	4.7	7.6
17	5.8	2.4	4.1	9.5	3.5	5.5	13.1	3.8	8.1	11.4	4.9	7.8
18	8.6	3.0	5.3	11.2	3.0	6.1	14.3	4.9	9.0	11.7	5.2	8.0
19	9.7	3.2	5.6	11.9	2.5	6.3	14.2	4.6	8.6	10.6	5.7	7.8
20	4.9	2.1	3.3	12.5	2.7	6.5	13.1	4.4	8.3	11.1	5.7	8.0
21	8.0	1.2	3.8	11.7	2.8	6.4	8.8	4.7	6.6	9.2	6.1	7.6
22	5.7	.0	2.2	12.0	3.0	7.0	10.8	4.2	6.7	7.8	6.4	7.1
23	3.5	.9	1.8	12.5	3.8	7.3	7.8	4.2	6.3	12.0	5.3	8.2
24	5.5	.8	2.6	5.1	2.1	3.7	10.6	4.2	6.4	9.2	6.4	7.7
25	6.9	.9	3.4	10.8	.8	4.9	13.7	3.0	7.5	10.2	5.2	7.3
26	7.4	.1	3.5	12.3	1.7	6.4	13.9	5.2	9.2	10.0	4.1	6.9
27	4.7	1.4	3.1	11.5	3.8	6.8	15.6	4.4	9.5	13.1	4.6	8.5
28	6.0	1.7	3.3	11.9	3.3	7.2	12.9	7.1	9.1	10.9	5.3	8.3
29	---	---	---	11.1	2.4	6.2	11.1	5.7	8.1	11.1	7.1	8.9
30	---	---	---	12.6	1.6	6.5	14.3	3.9	8.5	15.4	7.2	10.7
31	---	---	---	9.5	3.6	6.3	---	---	---	14.7	5.8	9.5
MONTH	9.7	.0	3.4	12.6	.0	5.5	15.6	.9	7.1	15.6	3.5	8.2
		JUNE			JULY			AUGUST			SEPTEMBER	
1	13.7	5.8	8.9	14.5	6.6	10.4	19.0	11.1	14.5	17.2	11.6	14.0
2	10.9	5.2	7.8	15.1	6.3	10.6	16.7	11.4	14.1	19.3	10.8	14.5
3	13.9	5.2	8.7	15.0	6.7	10.7	15.8	12.3	14.0	18.3	11.4	14.7
4	12.5	5.3	8.6	15.0	6.7	10.8	16.9	12.5	14.3	16.2	12.2	13.7
5	12.2	5.0	8.0	14.3	7.4	10.8	16.7	12.5	13.8	19.3	10.2	13.9
6	10.3	5.3	7.7	12.9	7.7	10.5	15.1	11.4	13.1	14.3	11.2	12.8
7	10.8	6.4	8.4	13.1	8.4	10.5	16.2	10.2	13.0	18.1	9.5	13.3
8	9.8	6.1	7.6	13.9	8.8	11.2	18.1	10.0	13.6	18.8	10.2	13.9
9	9.8	6.7	8.0	13.9	8.3	11.3	15.3	10.8	12.9	17.2	10.9	13.3
10	12.6	7.5	9.8	13.9	8.6	11.6	15.0	11.2	12.7	15.8	10.6	13.0
11	14.5	6.9	10.2	13.4	9.7	11.5	14.7	9.1	11.4	15.9	10.3	12.7
12	12.5	6.3	9.1	17.0	8.8	12.5	16.9	8.9	12.6	18.3	10.6	13.6
13	13.3	6.6	9.4	16.9	8.6	12.5	14.7	10.2	12.2	15.9	9.5	12.3
14	11.4	6.9	9.1	17.0	8.4	12.6	18.6	10.0	13.4	17.2	9.5	12.5
15	12.6	5.5	8.4	16.7	8.8	12.7	18.6	9.4	13.6	14.3	10.5	12.0
16	13.6	6.6	9.7	15.0	9.1	12.2	19.0	11.4	14.2	15.9	9.5	12.0
17	15.3	7.2	10.6	14.7	9.7	12.4	18.0	10.9	14.3	16.9	6.0	11.0
18	13.9	6.6	9.9	13.3	10.2	11.9	18.3	12.2	14.5	---	---	---
19	14.0	7.4	10.2	16.9	10.6	12.7	19.3	10.6	14.2	---	---	---
20	14.2	6.3	9.8	17.8	10.5	13.7	19.3	10.8	14.6	---	---	---
21	14.5	6.0	9.8	15.8	10.2	12.9	17.7	11.1	14.1	---	---	---
22	14.0	6.4	10.0	16.5	10.8	13.2	19.3	12.6	15.3	---	---	---
23	13.6	6.4	9.9	15.6	11.1	13.1	17.3	11.6	14.3	---	---	---
24	13.9	6.3	9.8	18.1	10.2	13.7	18.0	11.7	14.5	---	---	---
25	13.3	6.7	10.0	16.7	10.2	13.6	17.5	11.7	14.0	---	---	---
26	12.6	6.9	9.8	16.5	11.4	13.4	16.4	12.3	14.0	---	---	---
27	13.3	7.2	10.2	16.4	11.6	13.4	19.1	10.6	14.4	---	---	---
28	15.4	7.7	10.9	15.0	11.7	13.1	19.0	11.6	14.9	---	---	---
29	15.1	7.4	11.0	14.8	11.1	13.0	18.0	11.6	13.9	---	---	---
30	15.4	6.9	10.9	15.8	11.6	13.1	17.2	10.6	12.9	---	---	---
31	---	---	---	17.0	11.7	13.7	15.9	11.1	13.0	---	---	---
MONTH	15.4	5.0	9.4	18.1	6.3	12.2	19.3	8.9	13.8	---	---	---

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 25 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	35	e27	24	23	e21	87	107	89	112	96	68
2	29	33	27	24	23	e21	78	90	139	99	91	66
3	129	36	e28	27	22	e21	80	87	126	102	89	65
4	77	33	28	26	23	21	116	97	135	102	104	83
5	51	29	e28	e25	e23	e21	87	106	145	96	112	80
6	45	29	28	e24	23	e21	74	111	146	97	117	82
7	42	24	e28	e24	e22	e23	68	111	145	81	103	79
8	44	27	e28	e24	e21	e24	66	108	170	78	89	69
9	45	28	e29	e24	e21	26	67	94	273	77	95	66
10	45	28	e30	e24	e21	28	64	81	199	79	161	66
11	43	27	e29	24	e21	32	60	70	167	81	177	69
12	43	27	29	24	e21	45	59	64	149	75	135	83
13	42	27	27	23	e21	60	54	59	136	83	130	74
14	40	27	25	e22	e21	58	53	62	124	91	110	71
15	41	27	24	e20	e22	65	60	53	114	99	98	86
16	42	27	e24	e21	e23	85	87	44	108	103	91	125
17	41	27	e25	e21	23	89	125	42	90	97	87	91
18	38	30	e25	e22	23	72	150	44	98	98	84	82
19	38	31	e24	e23	23	70	194	43	122	100	78	81
20	42	30	e26	e24	23	77	238	36	155	103	72	77
21	38	27	e24	e23	22	87	234	43	170	101	65	80
22	36	30	e25	e23	e21	88	194	69	168	95	64	88
23	39	31	e25	23	e21	95	147	69	160	105	71	82
24	39	27	e22	e23	e23	94	138	57	140	99	68	74
25	38	27	e22	e23	e23	73	111	72	118	88	69	69
26	35	26	e23	23	e22	64	113	84	112	82	110	66
27	36	26	24	23	e21	66	126	59	106	93	100	71
28	42	26	24	e23	21	71	157	47	113	114	83	67
29	40	e26	e24	23	---	88	133	50	121	110	75	62
30	37	27	24	e23	---	75	106	53	116	108	70	58
31	36	---	24	e23	---	73	---	65	---	111	68	---
TOTAL	1361	855	800	723	617	1754	3326	2177	4154	2959	2962	2280
MEAN	43.9	28.5	25.8	23.3	22.0	56.6	111	70.2	138	95.5	95.5	76.0
MAX	129	36	30	27	23	95	238	111	273	114	177	125
MIN	28	24	22	20	21	21	53	36	89	75	64	58
AC-FT	2700	1700	1590	1430	1220	3480	6600	4320	8240	5870	5880	4520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1997, BY WATER YEAR (WY)

MEAN	24.9	24.4	20.2	18.0	18.9	25.7	59.9	53.6	63.9	76.5	60.0	39.5
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1922 - 1997	
ANNUAL TOTAL	9184.0		23968			
ANNUAL MEAN	25.1		65.7		40.3	
HIGHEST ANNUAL MEAN					86.4	1984
LOWEST ANNUAL MEAN					13.8	1990
HIGHEST DAILY MEAN	129	Oct 3	273	Jun 9	740	May 3 1924
LOWEST DAILY MEAN	[a]2.0	May 31	[e]20	Jan 15	.21	Jun 19 1981
ANNUAL SEVEN-DAY MINIMUM	3.0	May 29	21	Feb 8	.38	May 11 1981
INSTANTANEOUS PEAK FLOW			473	Jun 9	[b]1120	Aug 15 1923
INSTANTANEOUS PEAK STAGE			5.30	Jun 9	[c]4.40	Aug 15 1923
ANNUAL RUNOFF (AC-FT)	18220		47540		29200	
10 PERCENT EXCEEDS	40		121		93	
50 PERCENT EXCEEDS	24		62		25	
90 PERCENT EXCEEDS	11		23		12	

e-Estimated.
a-Also occurred Jun 1-2.
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 NW1/4SW1/4 sec.16, T.46 N., R.8 W., Ouray County, Hydrologic Unit 14020006, in concrete gate house at base of Ridgway Reservoir on 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, 82,200 acre-ft, Aug. 11, elevation, 6,870.40 ft; minimum contents, 50,940 acre-ft, May 12, elevation, 6,836.37 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400 WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	6,851.85	64,060	-
Oct. 31.	6,858.59	70,360	+6,300
Nov. 30.	6,861.07	72,760	+2,400
Dec. 31.	6,863.48	75,130	+2,370
CAL YR 1996.	-	-	+10,250
Jan. 31.	6,863.73	75,380	+250
Feb. 28.	6,862.44	74,100	-1,280
Mar. 31.	6,861.73	73,400	-700
Apr. 30.	6,841.65	55,210	-18,190
May 31.	6,841.89	55,410	+200
June 30.	6,867.13	78,800	+23,390
July 31.	6,869.43	81,180	+2,380
Aug. 31.	6,864.41	76,330	-4,850
Sept. 30.	6,854.99	66,950	-9,380
WTR YR 1997	-	-	+2,890

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	77	79	52	81	95	570	546	482	602	432	432
2	73	77	79	52	81	95	570	546	482	583	432	429
3	72	78	79	53	83	95	569	544	489	574	429	424
4	72	78	60	53	95	95	568	547	489	576	425	429
5	72	78	49	52	96	95	565	546	496	580	425	429
6	72	79	49	52	95	95	563	543	490	586	429	425
7	73	79	49	52	95	96	562	546	489	588	421	425
8	73	78	49	52	95	95	562	545	491	566	432	425
9	74	78	50	52	95	94	566	543	496	530	460	420
10	72	78	50	52	95	93	570	542	496	495	455	416
11	75	77	50	52	95	89	570	540	498	486	524	412
12	75	78	50	52	96	79	567	540	583	490	580	409
13	75	78	50	52	95	78	563	540	644	494	574	409
14	77	78	50	52	95	131	562	540	644	504	573	407
15	77	78	50	82	95	162	562	540	644	509	573	405
16	77	79	50	100	95	163	562	502	644	535	563	424
17	77	79	51	100	95	165	562	475	644	550	555	468
18	77	78	51	100	95	158	558	475	651	547	552	462
19	77	78	52	100	95	122	555	475	651	543	556	463
20	77	78	51	97	96	98	555	475	650	540	486	464
21	77	78	50	98	96	98	555	476	652	539	411	457
22	77	79	51	93	95	98	555	479	658	543	421	464
23	77	79	52	95	96	98	554	477	716	549	431	464
24	77	79	52	99	97	98	554	475	758	548	430	461
25	77	79	52	98	96	87	552	476	761	535	426	462
26	77	79	52	99	95	107	551	479	765	526	432	462
27	77	79	52	98	95	245	551	482	717	525	432	460
28	77	79	52	99	95	477	549	481	668	473	426	455
29	77	79	52	99	---	562	548	482	671	439	431	455
30	77	79	52	98	---	570	547	482	650	439	439	456
31	77	---	52	88	---	570	---	482	---	436	435	---
TOTAL	2336	2350	1667	2373	2628	5203	16797	15821	18169	16430	14590	13173
MEAN	75.4	78.3	53.8	76.5	93.9	168	560	510	606	530	471	439
MAX	77	79	79	100	97	570	570	547	765	602	580	468
MIN	72	77	49	52	81	78	547	475	482	436	411	405
AC-FT	4630	4660	3310	4710	5210	10320	33320	31380	36040	32590	28940	26130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1997, BY WATER YEAR (WY)

MEAN	96.1	82.4	75.2	61.9	64.3	105	286	331	420	430	344	191
MAX	166	108	105	76.5	93.9	179	560	510	606	846	535	439
(WY)	1996	1993	1993	1997	1997	1995	1997	1997	1997	1995	1992	1997
MIN	55.4	43.1	41.9	41.3	40.5	39.3	36.8	159	199	186	188	68.1
(WY)	1991	1990	1990	1992	1990	1990	1990	1989	1989	1989	1989	1993

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1989 - 1997	
ANNUAL TOTAL	63322		111537			
ANNUAL MEAN	173		306		208	
HIGHEST ANNUAL MEAN					311	1995
LOWEST ANNUAL MEAN					117	1989
HIGHEST DAILY MEAN	507	Jul 1	765	Jun 26	1080	Jul 11 1995
LOWEST DAILY MEAN	[a]49	Dec 5	[a]49	Dec 5	[b]34	Apr 21 1990
ANNUAL SEVEN-DAY MINIMUM	49	Dec 5	49	Dec 5	34	Apr 21 1990
INSTANTANEOUS PEAK FLOW			821	Jun 25	1160	Jun 13 1990
INSTANTANEOUS PEAK STAGE			3.25	Jun 25	[c]3.56	Jun 13 1990
ANNUAL RUNOFF (AC-FT)	125600		221200		150700	
10 PERCENT EXCEEDS	331		569		482	
50 PERCENT EXCEEDS	78		411		112	
90 PERCENT EXCEEDS	69		52		49	

a-Also occurred Dec 6-8.
b-Also occurred Apr 22-24, 1990.
c-Maximum gage height, 3.63 ft, Jul 10, 1995.

09147500 UNCOMPAHGRE RIVER AT COLONA, CO

LOCATION.--Lat 38°19'53", long 107°46'44", in NW1/4NW1/4 sec.17, T.47 N., R.8 W., Ouray County, Hydrologic Unit 14020006, on right bank 75 ft downstream from county highway crossing, 0.2 mi north of Colona, and 1.0 mi upstream from Beaton Creek.

DRAINAGE AREA.--448 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.--Records good except for estimated daily discharges, which are poor. 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	99	87	62	104	98	669	698	1040	839	428	442
2	77	95	94	61	106	96	658	673	1100	783	418	434
3	224	98	85	e61	107	98	657	678	984	750	426	426
4	144	97	79	e61	127	98	704	712	1020	740	433	430
5	103	99	60	61	129	92	668	740	1020	717	428	438
6	96	98	66	64	130	90	651	769	927	712	433	440
7	94	91	63	62	127	86	642	774	857	701	428	449
8	88	93	62	64	131	91	642	804	869	665	428	440
9	85	95	65	64	129	95	643	753	984	612	455	442
10	85	95	67	63	130	97	638	711	905	576	490	443
11	85	94	68	64	133	101	627	739	931	564	542	444
12	84	94	65	65	132	99	622	784	1050	549	585	461
13	85	92	64	64	132	100	614	827	1080	549	595	449
14	85	93	65	65	130	148	620	847	998	538	590	448
15	86	91	57	93	134	194	632	859	1020	503	572	452
16	88	92	e58	128	130	200	650	902	1050	515	578	527
17	89	89	e57	129	132	205	703	874	1040	525	575	522
18	87	97	56	126	131	190	732	884	1080	528	568	517
19	92	97	e60	126	130	170	767	890	1170	526	568	510
20	96	102	e60	122	134	175	781	858	1170	524	506	505
21	93	96	e58	125	117	202	788	880	1180	515	401	531
22	92	96	e58	116	108	196	756	953	1180	509	403	548
23	100	100	e55	115	110	207	721	901	1390	524	413	543
24	98	93	e52	120	109	217	708	789	1470	514	414	527
25	97	94	61	122	106	168	674	770	1320	503	416	517
26	95	94	61	125	107	180	669	749	1250	497	423	514
27	97	96	61	127	103	335	682	690	1030	505	432	524
28	102	87	61	127	99	570	741	652	939	509	427	517
29	103	96	60	126	---	681	739	638	931	440	424	511
30	102	96	60	128	---	670	697	685	906	436	425	504
31	103	---	61	119	---	665	---	860	---	436	443	---
TOTAL	3032	2849	1986	2955	3397	6614	20495	24343	31891	17804	14667	14455
MEAN	97.8	95.0	64.1	95.3	121	213	683	785	1063	574	473	482
MAX	224	102	94	129	134	681	788	953	1470	839	595	548
MIN	77	87	52	61	99	86	614	638	857	436	401	426
AC-FT	6010	5650	3940	5860	6740	13120	40650	48280	63260	35310	29090	28670

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1997, BY WATER YEAR (WY)

MEAN	128	105	92.5	82.6	84.0	128	331	532	663	464	294	194
MAX	224	137	132	105	121	213	683	926	1066	1226	489	482
(WY)	1988	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1986 - 1997	
ANNUAL TOTAL	77143		144488			
ANNUAL MEAN	211		396		a259	
HIGHEST ANNUAL MEAN					396	1997
LOWEST ANNUAL MEAN					129	1989
HIGHEST DAILY MEAN	764	May 19	1470	Jun 24	1900	Jul 11 1995
LOWEST DAILY MEAN	b44	Sep 12	e52	Dec 24	c25	Apr 28 1990
ANNUAL SEVEN-DAY MINIMUM	47	Sep 8	57	Dec 18	29	Sep 24 1989
INSTANTANEOUS PEAK FLOW			1980	Jun 25	d2230	Jul 12 1995
INSTANTANEOUS PEAK STAGE			4.71	Jun 25	4.76	Jul 12 1995
ANNUAL RUNOFF (AC-FT)	153000		286600		187400	
10 PERCENT EXCEEDS	492		864		623	
50 PERCENT EXCEEDS	96		416		129	
90 PERCENT EXCEEDS	65		65		65	

e-Estimated.
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 Sep 13.
c-Minimum daily discharge for period of record, 12 ft^3/s, Sep 19, 1956, and May 7, 1967.
d-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 current year.

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	171	153	46	33	e26	25	e74	177	203	17	55	101
2	161	e145	44	33	e26	24	e124	144	177	17	53	101
3	224	114	44	38	e26	25	e132	124	119	17	51	114
4	225	71	44	41	e27	25	e136	127	100	17	56	145
5	215	66	44	35	e27	24	e43	140	108	18	82	130
6	212	55	46	e29	e25	25	e102	168	108	18	99	119
7	215	52	44	e28	e23	25	e104	227	103	18	100	119
8	215	51	44	37	e22	25	e58	235	103	19	115	118
9	206	51	44	36	e22	25	e45	234	172	21	125	143
10	206	49	49	36	e23	25	e35	222	188	19	152	182
11	214	48	51	36	e24	26	e43	209	190	21	154	187
12	220	48	47	36	e25	27	e42	220	186	19	132	187
13	222	47	45	35	28	27	e47	225	188	18	125	187
14	213	49	43	35	27	28	e44	228	182	19	128	194
15	209	51	41	33	28	20	36	231	171	17	106	225
16	206	58	42	31	27	22	42	201	142	19	84	218
17	194	52	35	e25	28	25	65	212	91	23	72	183
18	e198	51	e27	e24	30	29	120	204	58	25	58	183
19	204	54	e24	e25	29	e71	170	207	45	26	45	184
20	216	53	e26	27	28	e100	221	208	29	22	33	191
21	e230	52	34	e28	28	152	226	199	27	23	31	203
22	e245	51	35	e29	27	e192	229	227	23	22	32	237
23	e246	66	34	e29	28	216	241	237	17	24	30	240
24	e248	57	32	e27	29	e206	252	228	18	24	31	234
25	252	52	32	e27	27	e162	193	251	18	24	32	234
26	e250	51	33	e27	25	e146	151	299	18	23	34	232
27	e241	49	33	e28	25	e148	138	252	18	24	61	236
28	239	47	33	e27	25	e152	178	229	18	27	71	231
29	232	47	32	e27	---	e152	225	227	19	29	65	226
30	226	48	33	e26	---	e160	188	221	17	39	76	164
31	157	---	33	e25	---	e103	---	214	---	60	81	---
TOTAL	6712	1838	1194	953	735	2412	3704	6527	2856	709	2369	5448
MEAN	217	61.3	38.5	30.7	26.3	77.8	123	211	95.2	22.9	76.4	182
MAX	252	153	51	41	30	216	252	299	203	60	154	240
MIN	157	47	24	24	22	20	35	124	17	17	30	101
AC-FT	13310	3650	2370	1890	1460	4780	7350	12950	5660	1410	4700	10810

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1997, BY WATER YEAR (WY)

MEAN	184	61.4	36.3	27.5	25.7	53.9	89.1	128	57.8	20.3	50.2	153
MAX	217	61.5	38.5	30.7	26.3	77.8	123	211	95.2	22.9	76.4	182
(WY)	1997	1996	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997
MIN	152	61.3	34.1	24.3	25.1	30.0	54.8	45.1	20.4	17.7	24.0	125
(WY)	1996	1997	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1996 - 1997	
ANNUAL TOTAL	20844.0		35457			
ANNUAL MEAN	57.0		97.1		74.1	
HIGHEST ANNUAL MEAN					97.1	1997
LOWEST ANNUAL MEAN					51.1	1996
HIGHEST DAILY MEAN	252	Oct 25	299	May 26	299	May 26 1997
LOWEST DAILY MEAN	e9.0	Apr 6	a17	Jun 23	e9.0	Apr 6 1996
ANNUAL SEVEN-DAY MINIMUM	13	Jun 1	17	Jun 30	13	Jun 1 1996
INSTANTANEOUS PEAK FLOW			387	May 25	387	May 25 1997
INSTANTANEOUS PEAK STAGE			4.38	May 25	4.38	May 25 1997
ANNUAL RUNOFF (AC-FT)	41340		70320		53680	
10 PERCENT EXCEEDS	173		225		201	
50 PERCENT EXCEEDS	27		51		38	
90 PERCENT EXCEEDS	16		24		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 current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1996 to September 1997 (discontinued).
WATER TEMPERATURE: October 1996 to September 1997.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry October 1996 to September 1997.

REMARKS.--Upper Colorado River Basin National Water Quality Assessment station (NAWQA). Daily specific-conductance data are fair. Daily water-temperature data are good. Missing daily water-temperature and specific-conductance data were caused by excessive sensor fouling.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,630 microsiemens Dec. 22 (may have been higher during periods of missing record); minimum, 327 microsiemens May 7 (may have been lower during periods of missing record).
WATER TEMPERATURE: Maximum, 23.2°C, July 24; minimum, 0.0°C on several days during December and January.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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...	1031	220	803	8.2	6.0	10.3	350	100	24	30	0.7	2.5
28...	1015	240	715	8.3	8.0	9.8	310	91	21	25	0.6	2.1
NOV												
18...	1108	49	1570	8.5	7.0	12.5	760	210	56	70	1	3.3
DEC												
17...	1013	33	1520	8.4	0.0	13.6	750	210	55	64	1	2.5
JAN												
21...	1650	30	1460	8.5	4.0	11.6	700	190	54	65	1	2.9
FEB												
25...	1305	21	1440	8.5	4.0	12.9	660	170	57	67	1	3.1
MAR												
19...	1120	82	862	8.1	8.0	9.6	400	110	30	36	0.8	3.2
25...	1340	198	726	8.0	6.0	10.4	300	79	26	38	0.9	3.0
APR												
08...	0910	75	612	8.2	4.5	10.5	270	76	19	23	0.6	2.4
22...	0840	243	385	8.1	6.0	10.0	160	44	12	14	0.5	2.2
MAY												
14...	0930	246	427	8.0	9.5	9.5	180	53	12	14	0.5	1.8
JUN												
10...	1330	183	733	--	15.0	8.4	320	93	22	27	0.7	2.4
JUL												
07...	1040	22	1230	8.4	16.0	10.7	500	150	30	43	0.8	2.2
AUG												
06...	1100	110	965	8.3	16.0	7.9	460	140	29	35	0.7	2.8
SEP												
09...	1310	156	923	8.2	16.0	8.6	440	130	28	34	0.7	2.3

09149480 DRY CREEK AT BEGONIA ROAD, NEAR DELTA, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	BICAR-BONATE[a] WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE[b] WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA-LINITY[c] 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)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT												
21...	179	--	147	250	4.3	0.6	15	556	522	0.76	330	0.01
28...	164	--	134	220	3.5	0.5	15	471	465	0.64	305	0.04
NOV												
18...	286	18	264	610	8.5	1.3	22	1190	1170	1.62	156	0.02
DEC												
17...	293	12	260	580	8.0	1.1	21	1130	1120	1.54	99.5	0.03
JAN												
21...	282	12	251	550	8.4	1.1	18	1100	1060	1.50	87.9	0.04
FEB												
25...	260	10	233	550	8.5	1.0	17	1060	1040	1.44	61.0	0.03
MAR												
19...	181	--	148	290	5.9	0.6	12	612	584	0.83	136	0.02
25...	143	--	117	240	6.0	0.3	11	514	479	0.70	275	<0.01
APR												
08...	151	--	124	190	4.1	0.4	9.8	424	405	0.58	85.9	<0.01
22...	106	0	87	100	2.7	0.2	8.6	260	241	0.35	171	<0.01
MAY												
14...	95	--	78	120	2.4	0.3	9.0	288	266	0.39	191	<0.01
JUN												
10...	--	--	--	240	4.4	0.5	15	525	495	0.71	259	<0.01
JUL												
07...	220	17	208	450	8.2	0.9	15	942	845	1.28	56.0	0.02
AUG												
06...	201	--	165	320	5.0	0.7	18	733	661	1.0	218	0.05
SEP												
09...	188	--	154	300	4.4	0.7	18	693	622	0.94	292	<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)	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)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
OCT												
21...	1.6	0.02	0.3	<0.2	0.08	<0.01	<0.01	2.7	1.1	<3	22	2
28...	1.4	0.04	0.5	<0.2	0.13	<0.01	<0.01	2.6	1.3	<3	20	2
NOV												
18...	7.3	0.04	0.3	0.4	0.01	<0.01	<0.01	2.8	0.3	7	74	4
DEC												
17...	6.0	0.03	0.4	0.3	0.01	<0.01	<0.01	2.7	0.6	<3	93	6
JAN												
21...	5.5	0.03	0.6	<0.2	0.03	<0.01	<0.01	2.8	0.6	8	79	5
FEB												
25...	5.5	0.12	1.2	0.8	0.05	<0.01	0.01	3.3	1.3	15	110	4
MAR												
19...	1.5	0.17	5.1	0.6	1.4	<0.01	<0.01	3.4	>10	<3	92	2
25...	1.1	0.10	1.0	0.3	0.42	<0.01	0.01	4.8	2.1	5	56	4
APR												
08...	0.69	0.04	0.7	0.4	0.11	<0.01	0.01	3.5	--	<3	30	1
22...	0.50	0.08	1.6	0.3	0.53	0.03	0.02	5.2	10	19	18	<1
MAY												
14...	0.68	0.03	1.2	0.3	0.37	0.04	0.02	5.8	5.7	26	17	2
JUN												
10...	2.0	<0.015	0.9	<0.2	0.40	<0.01	0.02	4.5	3.5	4	17	2
JUL												
07...	5.0	<0.015	0.7	0.4	0.09	0.03	0.03	4.4	0.8	<3	44	6
AUG												
06...	3.0	0.04	1.4	0.6	0.51	<0.01	<0.01	3.8	>5.0	<3	62	4
SEP												
09...	2.0	0.02	0.5	<0.2	0.16	<0.01	0.02	3.1	1.0	<3	30	4

a-Field dissolved bicarbonate, determined by incremental titration method.
b-Field dissolved carbonate, determined by incremental titration method.
c-Field total dissolved alkalinity, determined by incremental titration method.

09149480 DRY CREEK AT BEGONIA ROAD, NEAR DELTA, CO--Continued
(National Water-Quality Assessment Program station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)[d]	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SAMPLER TYPE (CODE) (84164)[f]
OCT						
21...	1031	220	205	122	--	8010
28...	1015	240	235	152	--	3039
NOV						
18...	1108	49	9	1.2	--	3045
DEC						
17...	1013	33	31	2.7	--	3045
JAN						
21...	1650	30	22	1.8	--	3045
FEB						
25...	1305	21	68	3.9	--	3045
MAR						
19...	1120	82	902	201	--	3045
25...	1310	198	690	369	71	3044
25...	1340	198	643	344	--	3045
APR						
08...	0850	75	191	39	80	3044
08...	0910	75	188	38	--	3045
22...	0805	243	1030	676	65	3009
22...	0840	243	991	650	--	3039
MAY						
14...	0930	246	683	454	--	3039
14...	1000	246	558	371	63	3009
JUN						
10...	1330	183	554	274	--	3045
JUL						
07...	1040	22	103	6.1	--	3045
07...	1041	22	104	6.2	--	3045
07...	1050	22	100	5.9	--	3045
07...	1051	22	97	5.8	--	3045
AUG						
06...	1100	110	588	175	--	3045
SEP						
09...	1310	156	312	131	--	3045

d-Suspended-sediment concentrations associated with sampler types 3045 and 3039 was determined from a subsample split of a composite sample.
f-Code 3009 is a D-74 suspended-sediment sampler; Code 3039 is a D-77TM water-quality sampler; Code 3044 and 3045 are DH-81 water-quality and suspended-sediment samplers; Code 8010, other.

09149480 DRY CREEK AT BEGONIA ROAD, NEAR DELTA, CO--Continued
(National Water-Quality Assessment Program station)

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	835	806	819	899	---	---	1520	1470	1490	1480	1430	1460
2	832	821	826	917	899	906	1570	1500	1540	1490	1420	1460
3	827	336	520	1310	917	1020	1570	1510	1550	1510	1430	1470
4	---	339	---	1430	1310	1390	1580	1520	1550	1500	1360	1420
5	---	---	---	1480	1430	1460	1570	1520	1540	1540	1420	1480
6	---	---	---	1520	1460	1480	1560	1490	1530	1500	1350	1410
7	---	---	---	1540	1520	1530	1560	1510	1540	1460	1390	1430
8	---	---	---	1540	1520	1530	1560	1510	1540	1440	1380	1400
9	---	---	---	1530	1500	1510	1570	1510	1530	1470	1390	1430
10	---	---	---	1520	1500	1510	1560	1450	1510	1450	1390	1430
11	---	---	---	1550	1500	1520	1490	1360	1440	1450	1400	1440
12	---	---	---	1520	1490	1500	1500	1480	1490	1470	1430	1450
13	---	---	---	1500	1480	1490	1500	1460	1480	1480	1450	1460
14	---	---	---	1510	1480	1500	1510	1480	1500	1490	1460	1480
15	---	---	---	1530	1490	1510	1530	1480	1500	1530	1480	1500
16	---	---	---	1600	1510	1550	1530	1500	1520	1540	1480	1510
17	---	---	---	1580	1540	1560	1560	1490	1520	1540	1440	1490
18	---	---	---	1590	1530	1550	---	---	---	1530	1450	1480
19	---	---	---	1620	1530	1560	---	---	---	1500	1440	1470
20	---	---	---	1580	1510	1530	---	---	---	1480	1450	1460
21	---	770	---	1540	1500	1520	1590	1530	1560	1480	1420	1450
22	774	746	757	1520	1490	1510	1630	1570	1600	1500	1450	1470
23	756	742	751	1500	1210	1320	1580	1510	1530	1480	1420	1450
24	744	721	736	1380	1310	1350	1540	1510	1530	1500	1460	1470
25	733	702	718	1450	1380	1410	1560	1490	1520	1500	1450	1480
26	---	705	---	1470	1420	1440	1520	1490	1510	1500	1440	1460
27	---	---	---	1500	1440	1470	1510	1500	1500	1480	1430	1460
28	749	---	---	1510	1440	1470	1520	1490	1500	1510	1380	1450
29	747	696	726	1530	1510	1520	1520	1480	1500	1510	1410	1430
30	710	678	698	1530	1460	1490	1510	1470	1480	1540	1460	1490
31	---	707	---	---	---	---	1490	1430	1470	1520	1420	1470
MONTH	---	---	---	1620	---	---	---	---	---	1540	1350	1460

		FEBRUARY			MARCH			APRIL			MAY	
1	1510	1400	1450	1460	1420	1440	---	555	---	460	409	432
2	1500	1400	1460	1470	1430	1440	555	---	---	474	420	439
3	1470	1380	1420	1520	1400	1460	---	---	---	473	444	461
4	1510	1420	1460	1520	1410	1460	---	---	---	467	434	446
5	1510	1410	1450	---	1450	---	---	---	---	451	420	432
6	1460	1370	1420	---	1350	---	---	---	---	420	392	405
7	1490	1440	1460	1500	1300	1430	---	---	---	392	344	364
8	---	1490	---	1450	1280	1380	716	---	---	363	327	340
9	---	1470	---	1380	1270	1340	706	667	684	377	343	358
10	---	1470	---	1370	1260	1320	734	691	717	419	377	401
11	1500	1400	1450	1340	1230	1290	726	662	679	427	416	423
12	1500	1410	1450	1310	1200	1260	769	671	720	430	413	420
13	1440	1370	1400	1240	1100	1180	759	613	697	432	417	423
14	---	1410	---	1190	1080	1150	774	621	707	---	411	---
15	1480	1350	1400	1210	1060	1130	774	699	732	---	---	---
16	1480	1380	1420	1130	1050	1100	737	642	685	---	---	---
17	1440	1380	1420	1200	1030	1110	699	529	592	---	---	---
18	1430	1340	1390	1140	1010	1070	608	363	467	---	---	---
19	1410	1350	1390	---	---	---	462	389	421	---	---	---
20	1420	1380	1400	889	---	---	415	---	---	---	---	---
21	1430	1390	1420	---	---	---	---	---	---	---	---	---
22	1470	1380	1430	---	---	---	425	---	---	---	---	---
23	1450	1350	1410	---	---	---	424	379	406	---	---	---
24	1440	1340	1400	---	---	---	434	405	418	---	---	---
25	1460	1380	1420	833	---	---	473	408	439	---	---	---
26	1470	1360	1430	788	670	735	470	442	456	661	631	647
27	1490	1370	1440	---	---	---	470	434	453	646	627	638
28	1470	1410	1450	---	---	---	512	406	446	664	637	652
29	---	---	---	---	---	---	475	400	424	658	644	652
30	---	---	---	---	---	---	428	399	416	670	651	660
31	---	---	---	---	---	---	---	---	---	659	625	640
MONTH	---	1340	---	---	---	---	---	---	---	---	---	---

09149480 DRY CREEK AT BEGONIA ROAD, NEAR DELTA, CO--Continued
(National Water-Quality Assessment Program station)

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	641	601	622	---	---	---	1160	1060	1120	---	---	---
2	663	605	629	---	---	---	1170	1090	1120	---	---	---
3	707	661	685	---	---	---	1140	1080	1100	---	---	---
4	735	695	714	---	---	---	1110	1040	1060	---	903	---
5	735	696	716	---	---	---	1060	998	1040	993	911	969
6	739	700	721	---	---	---	1010	992	1000	1040	977	1010
7	771	732	747	1200	---	---	1010	973	993	1010	981	1000
8	785	730	758	1210	1120	1150	977	916	935	1040	927	981
9	780	---	---	1220	1140	1160	929	900	913	974	937	955
10	---	701	---	1220	1140	1170	918	852	880	941	840	903
11	706	677	691	1250	1160	1180	894	850	872	916	840	901
12	677	646	659	1250	1190	1220	927	887	900	908	859	882
13	648	627	636	1250	1180	1220	964	900	922	874	851	866
14	671	640	650	1250	1180	1210	971	897	922	871	823	853
15	673	649	660	1290	1210	1270	1020	962	980	901	807	849
16	765	661	698	1310	1240	1270	1080	979	1020	894	849	872
17	855	737	781	1260	1160	1200	1100	1030	1060	906	861	886
18	945	839	880	1250	1170	1210	1190	1070	1110	873	864	869
19	1020	878	940	1290	1220	1240	1250	1140	1190	874	803	853
20	1040	958	997	1310	1270	1290	1260	1190	1230	833	821	828
21	1030	954	983	1300	1230	1260	1240	1210	1230	862	797	837
22	1060	964	995	1280	1240	1260	1270	1230	1240	799	766	786
23	1090	999	1050	1270	1210	1230	1290	1250	1270	769	738	754
24	1080	1010	1050	1230	1180	1200	1310	1240	1280	752	735	744
25	1080	1030	1050	1260	1180	1220	1280	1210	1250	743	731	738
26	1080	1020	1050	1250	1200	1220	1310	1250	1280	762	736	744
27	1070	1010	1040	1220	1160	1190	1320	1180	1260	778	748	758
28	---	999	---	1190	1150	1160	1230	1150	1190	752	734	743
29	---	---	---	1180	1080	1130	1220	1140	1180	745	722	736
30	---	---	---	1110	1030	1080	1150	1050	1100	867	734	845
31	---	---	---	1110	1030	1050	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.0	11.1	13.0	8.6	5.9	7.2	4.5	1.5	3.1	5.1	2.6	3.9
2	14.3	11.8	13.2	8.5	5.0	6.8	4.8	2.7	3.6	5.7	2.3	4.0
3	13.5	11.6	12.6	8.2	6.4	7.3	3.7	.9	2.3	5.3	3.9	4.8
4	14.0	10.2	12.0	10.9	8.1	9.2	3.7	1.3	2.3	4.4	2.2	3.3
5	14.7	11.3	13.0	10.3	7.6	8.9	4.0	1.9	2.8	2.8	1.6	2.2
6	14.9	11.6	13.2	9.0	6.6	7.9	4.5	2.8	3.8	2.5	.3	1.4
7	14.7	11.5	13.1	7.7	4.4	6.2	4.6	1.7	3.1	.8	.0	.2
8	14.6	11.3	13.0	7.9	4.3	6.2	4.7	1.7	3.2	2.6	.1	1.2
9	14.7	11.3	13.0	8.7	4.8	6.8	5.2	2.2	3.8	3.4	.8	2.0
10	14.8	11.4	13.1	8.9	5.2	7.1	7.0	4.8	5.8	3.3	1.6	2.3
11	14.8	11.4	13.1	8.6	5.0	6.9	7.9	5.2	6.5	4.6	2.1	3.1
12	14.6	11.4	13.0	8.7	5.0	6.9	7.0	4.6	6.0	4.4	2.5	3.5
13	14.3	11.2	12.8	8.8	5.8	7.4	7.0	4.2	5.7	4.2	3.2	3.6
14	14.3	12.3	13.1	8.3	6.7	7.7	6.2	2.7	4.6	3.3	1.7	2.7
15	13.6	10.6	12.1	7.9	5.8	7.2	3.1	.7	2.0	3.8	1.2	2.2
16	12.3	10.1	11.1	7.0	4.8	5.7	4.0	2.1	2.8	2.8	.0	1.3
17	10.6	8.4	9.5	5.5	4.0	4.8	2.1	.0	.4	2.2	.0	.8
18	10.3	6.9	8.6	8.4	5.5	6.9	.0	.0	.0	2.9	.0	1.1
19	12.0	9.1	10.3	8.8	5.3	7.2	.0	.0	.0	3.7	.0	1.5
20	10.2	6.2	8.4	10.2	7.0	8.4	.3	.0	.0	2.8	.2	1.5
21	7.6	5.8	6.7	8.4	6.2	7.6	2.8	.3	1.9	3.8	1.5	2.4
22	7.7	4.7	6.2	9.8	8.2	9.0	4.5	2.6	3.3	4.1	.7	2.2
23	8.8	5.8	7.2	8.9	6.6	8.1	4.4	1.9	2.9	4.2	2.5	3.2
24	8.5	6.1	7.4	7.4	4.6	6.1	2.5	.0	1.3	4.3	1.8	2.8
25	9.0	7.3	8.0	8.1	5.8	6.9	3.1	.0	1.7	2.9	1.3	2.2
26	8.4	6.5	7.4	7.2	4.9	6.3	3.6	1.9	2.8	4.5	2.6	3.4
27	7.7	6.2	6.9	7.3	4.6	5.9	4.8	3.5	4.0	6.6	3.2	4.6
28	8.2	7.2	7.6	5.7	2.6	4.3	5.7	3.2	4.2	4.5	1.6	3.4
29	8.3	6.5	7.3	6.2	4.5	5.2	4.9	1.9	3.4	6.2	3.0	4.2
30	9.0	6.3	7.4	5.3	2.9	4.3	5.1	2.6	3.8	5.8	1.5	3.7
31	9.1	6.1	7.5	---	---	---	6.2	3.1	4.6	6.2	1.5	3.9
MONTH	15.0	4.7	10.3	10.9	2.6	6.9	7.9	.0	3.1	6.6	.0	2.7

09149480 DRY CREEK AT BEGONIA ROAD, NEAR DELTA, CO--Continued
(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.5	2.1	4.4	6.8	1.4	3.9	7.8	3.3	6.0	9.9	6.7	8.2
2	5.6	2.4	4.1	6.1	.1	3.4	5.7	2.7	4.3	11.1	4.8	7.8
3	6.3	3.1	4.5	7.2	1.4	4.2	10.0	4.1	7.1	12.6	5.8	9.0
4	6.1	2.3	4.1	6.1	2.1	3.8	8.6	6.0	7.2	12.6	7.6	10.1
5	5.4	2.3	3.9	6.2	.1	2.9	6.0	3.7	4.9	13.5	7.9	10.6
6	4.3	1.8	3.0	7.7	.1	3.8	7.2	2.2	4.6	12.5	9.2	10.9
7	5.2	.1	2.7	8.7	.1	4.9	8.5	3.2	5.6	12.2	8.4	10.4
8	4.0	.1	1.6	8.4	2.4	5.6	9.5	4.4	6.8	11.4	7.6	9.6
9	4.7	.1	2.0	9.8	2.9	6.4	10.7	5.1	7.9	12.0	7.3	9.7
10	3.7	.1	1.8	10.7	3.1	6.9	10.1	4.9	7.2	11.8	7.1	9.6
11	6.2	.8	3.3	11.4	4.0	7.7	8.3	2.5	4.8	14.0	8.1	10.9
12	5.1	1.3	3.4	12.1	4.9	8.5	8.5	1.2	4.4	13.8	9.1	11.5
13	5.3	.8	3.0	11.2	5.1	8.2	10.2	2.1	5.8	13.5	8.5	11.0
14	5.6	.2	2.9	8.9	3.6	6.7	12.0	3.3	7.2	14.1	8.8	11.4
15	7.8	2.7	4.9	10.8	4.7	7.9	13.5	5.7	9.3	15.4	9.1	12.0
16	7.3	2.4	5.1	12.2	6.5	9.5	14.4	6.1	9.9	14.4	9.9	12.2
17	7.5	4.1	5.8	11.1	7.5	9.3	14.1	6.7	10.0	13.5	9.4	11.6
18	9.2	4.7	6.6	11.9	4.4	8.2	12.5	7.0	9.8	13.9	10.2	12.1
19	8.4	3.0	5.8	12.0	5.9	9.2	11.7	6.5	9.2	15.1	10.1	12.4
20	5.6	3.0	4.3	13.2	6.2	9.7	10.3	6.7	8.8	12.9	10.1	11.6
21	6.1	.6	3.3	11.6	7.4	9.8	9.2	6.9	8.3	12.3	10.2	11.3
22	5.1	.8	2.8	11.5	7.3	9.6	10.9	6.1	8.4	11.3	10.3	10.8
23	4.7	2.0	3.3	12.4	7.8	10.2	9.4	6.2	7.1	13.9	8.7	11.1
24	5.8	2.2	3.9	10.8	6.0	8.2	7.7	5.5	6.8	12.4	9.8	10.9
25	5.6	1.6	3.4	7.6	3.3	5.6	10.7	4.3	7.2	11.8	8.2	9.8
26	5.5	.1	3.1	9.5	3.6	6.7	11.8	6.8	9.2	13.0	8.1	10.3
27	3.7	2.7	3.2	10.6	5.1	8.0	12.6	6.1	9.3	14.5	9.0	11.6
28	5.4	2.1	3.6	9.6	5.4	7.8	11.5	9.1	10.2	14.4	10.1	12.3
29	---	---	---	10.0	6.2	8.1	10.0	7.6	8.9	15.1	11.5	13.2
30	---	---	---	9.5	4.1	7.0	10.9	5.0	7.9	16.7	12.0	14.3
31	---	---	---	9.5	5.4	7.4	---	---	---	18.0	12.9	15.4
MONTH	9.2	.1	3.7	13.2	.1	7.1	14.4	1.2	7.5	18.0	4.8	11.1

		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.0	13.3	15.8	---	---	---	22.1	15.3	18.2	19.3	15.3	17.0
2	16.5	13.0	14.7	---	---	---	21.3	15.7	18.2	19.7	15.1	17.3
3	18.3	11.9	14.8	---	---	---	20.3	16.2	17.7	19.2	15.6	17.3
4	18.7	12.5	15.4	---	---	---	19.0	16.2	17.2	17.7	15.5	16.5
5	19.1	12.0	15.3	---	---	---	19.0	15.7	17.0	18.3	14.3	16.3
6	18.1	12.5	15.1	---	---	---	18.9	15.5	16.9	16.7	14.8	15.5
7	15.9	13.0	14.5	18.9	---	---	19.7	14.1	16.6	18.3	13.5	15.7
8	15.2	11.9	13.3	21.5	13.1	16.5	19.9	14.7	17.1	18.7	14.1	16.3
9	14.5	11.3	12.6	20.4	13.1	16.4	17.5	14.9	16.3	16.9	14.7	15.8
10	14.9	11.9	13.5	21.9	13.3	17.1	17.8	15.1	16.2	17.5	14.4	15.8
11	16.9	12.6	14.6	18.2	14.8	16.5	17.3	13.8	15.3	16.9	14.2	15.6
12	16.9	12.9	14.9	21.4	13.6	16.9	17.8	13.7	15.7	17.6	14.3	15.9
13	16.4	13.2	14.6	21.8	13.5	17.1	17.5	14.0	15.7	16.4	14.0	15.2
14	15.1	12.7	13.9	22.4	13.1	17.3	18.5	13.7	15.9	17.2	14.1	15.5
15	16.1	11.5	13.7	22.9	13.2	17.9	19.4	13.9	16.5	16.2	14.6	15.1
16	17.8	11.5	14.3	22.7	13.8	17.7	18.4	15.2	16.7	16.3	14.1	15.1
17	20.1	13.0	16.3	22.5	14.3	17.7	19.7	14.4	16.8	17.0	13.7	15.4
18	20.4	13.4	16.7	21.4	15.1	17.3	20.6	15.4	17.7	16.7	14.5	15.6
19	21.2	14.3	17.4	21.9	14.9	17.5	20.8	14.5	17.4	17.9	14.2	15.8
20	21.8	13.3	17.1	22.4	14.5	17.8	21.6	14.7	17.6	16.4	14.2	15.4
21	22.3	13.9	17.5	22.3	14.4	18.0	20.4	14.9	17.4	15.4	14.0	14.5
22	22.5	13.3	17.3	21.9	15.5	18.3	21.9	16.0	18.3	15.0	12.9	13.9
23	22.1	12.8	17.1	22.3	15.9	18.4	20.5	15.2	17.7	15.5	12.6	14.0
24	21.9	12.7	17.0	23.2	14.6	18.4	21.8	15.5	18.0	15.6	12.6	14.1
25	22.6	12.8	17.2	22.0	14.6	18.2	21.0	15.6	17.6	15.8	13.0	14.4
26	21.2	12.8	16.4	21.1	14.8	17.3	18.2	15.8	16.8	15.3	14.6	14.8
27	21.8	12.6	16.7	20.2	15.9	17.7	20.3	14.8	17.3	17.2	14.3	15.5
28	---	13.6	---	19.8	16.1	17.5	19.8	15.1	17.3	16.5	14.3	15.3
29	---	---	---	20.7	16.0	17.9	20.4	15.3	17.4	15.8	12.9	14.4
30	---	---	---	18.9	15.9	17.1	18.3	14.5	16.4	16.4	12.7	14.6
31	---	---	---	20.3	15.8	17.5	17.8	14.4	15.9	---	---	---
MONTH	---	---	---	---	---	---	22.1	13.7	17.0	19.7	12.6	15.5

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.--Records good except for estimated daily discharges, which are fair. 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	406	575	299	200	207	220	833	521	1080	259	413	599
2	408	549	304	190	206	215	873	442	1150	302	397	555
3	e800	485	288	201	208	220	884	341	876	301	384	535
4	e1000	356	297	228	210	223	943	404	690	296	418	644
5	606	345	268	198	222	199	1050	515	615	321	518	779
6	541	352	276	201	234	191	770	569	525	332	562	827
7	493	330	268	179	226	206	562	567	458	321	592	950
8	450	318	261	197	219	213	498	651	578	337	556	860
9	421	314	260	192	221	233	484	606	875	291	587	832
10	401	312	282	191	224	241	456	479	1250	268	721	907
11	410	307	301	190	226	243	420	425	1030	244	818	835
12	413	304	276	188	218	244	390	460	970	250	860	825
13	409	302	257	183	229	253	366	510	1130	223	899	810
14	388	301	238	182	214	261	350	534	980	218	906	816
15	379	309	224	177	221	333	361	494	972	208	769	927
16	360	346	224	211	221	342	380	530	901	191	747	1260
17	357	315	201	216	225	357	459	520	705	195	717	1050
18	358	321	168	222	232	336	516	532	600	216	647	1040
19	365	338	175	224	236	347	680	586	533	275	527	1010
20	443	347	180	228	231	357	878	499	487	291	446	1050
21	461	338	216	233	230	407	1010	512	490	280	328	1110
22	466	320	217	240	215	412	913	848	456	252	257	1220
23	468	345	217	233	222	444	824	1210	413	253	263	1200
24	477	332	200	228	231	476	838	966	383	326	273	1160
25	482	308	202	233	225	360	689	1030	318	283	308	1140
26	488	309	204	243	223	299	499	1710	282	284	356	1140
27	484	311	202	239	224	328	437	1140	279	338	413	1110
28	497	306	205	222	223	615	533	910	304	384	426	1040
29	544	318	206	215	---	916	697	819	291	353	421	1020
30	539	321	201	208	---	943	594	766	284	375	439	942
31	578	---	200	215	---	930	---	874	---	438	461	---
TOTAL	14892	10334	7317	6507	6223	11364	19187	20970	19905	8905	16429	28193
MEAN	480	344	236	210	222	367	640	676	664	287	530	940
MAX	1000	575	304	243	236	943	1050	1710	1250	438	906	1260
MIN	357	301	168	177	206	191	350	341	279	191	257	535
AC-FT	29540	20500	14510	12910	12340	22540	38060	41590	39480	17660	32590	55920

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1997, BY WATER YEAR (WY)

MEAN	396	250	163	136	132	162	312	514	574	324	287	384
MAX	831	373	269	220	222	367	1107	2542	1763	1170	808	944
(WY)	1942	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1939 - 1997	
ANNUAL TOTAL	110143		170226			
ANNUAL MEAN	301		466		303	
HIGHEST ANNUAL MEAN					688	1984
LOWEST ANNUAL MEAN					155	1951
HIGHEST DAILY MEAN	e1000	Oct 4	1710	May 26	4520	May 15 1984
LOWEST DAILY MEAN	a145	Aug 8	168	Dec 18	b20	Dec 26 1962
ANNUAL SEVEN-DAY MINIMUM	158	Aug 12	186	Jan 9	42	Mar 14 1959
INSTANTANEOUS PEAK FLOW			2150	May 26	c5800	May 15 1984
INSTANTANEOUS PEAK STAGE			6.56	May 26	8.85	May 15 1984
ANNUAL RUNOFF (AC-FT)	218500		337600		219700	
10 PERCENT EXCEEDS	495		920		603	
50 PERCENT EXCEEDS	248		358		203	
90 PERCENT EXCEEDS	175		209		107	

e-Estimated.
a-Also occurred Aug 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. 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.--No estimated daily discharges. Records good. 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1850	2210	2150	1860	2500	2410	5380	6470	9520	6030	2460	2620
2	1840	2170	2100	1860	2500	2200	5360	5790	10200	5750	2260	2630
3	2080	2270	2100	1910	2510	1890	5220	5040	10000	5630	2150	2580
4	2840	2470	2050	2070	2490	1960	5650	5120	9540	5510	2200	2590
5	2330	2350	2050	1960	2440	2190	5820	6010	9250	5500	2280	2880
6	2120	2330	2060	1930	2470	2310	5220	7430	9010	5410	2410	2850
7	2050	2280	2090	1880	2520	2570	4910	8580	8460	5310	2520	3100
8	1980	2220	2050	1860	2470	2810	4750	8900	8960	5030	2430	3040
9	1960	2190	2050	1910	2450	3020	4690	8470	10200	4650	2370	2950
10	1900	2200	2060	1920	2470	3220	4680	8200	10600	4350	2590	2980
11	1920	2190	2150	1930	2480	3470	4530	7810	9950	4220	3280	3090
12	1900	2170	2170	2010	2500	3730	4360	7910	9280	4000	3230	3080
13	1870	2160	2120	2230	2500	4010	4290	8300	9060	3760	3070	3030
14	1850	2150	2060	2250	2470	4230	4290	8460	8860	3530	3090	3090
15	1830	2170	2010	2240	2440	4400	4240	8450	8450	3270	3110	3130
16	1820	2310	1960	2260	2460	4620	4360	8580	8050	3000	2840	3610
17	1840	2250	1920	2330	2460	4740	5040	9000	7660	2870	2530	3510
18	1870	2190	1890	2440	2480	4770	6000	8690	7280	2900	2620	3380
19	1900	2240	1870	2470	2450	4830	6680	8770	7300	2870	2500	3280
20	1970	2230	1950	2490	2460	5080	7270	8730	7350	2800	2380	3360
21	2090	2180	1980	2510	2490	5310	7630	8760	7130	2690	2230	4520
22	2060	2220	1980	2500	2440	5320	7380	9440	6820	2500	2090	3950
23	2030	2440	1990	2500	2430	5400	6980	11300	6560	2350	2070	3590
24	2040	2460	1880	2500	2450	5620	6460	10500	6280	2440	2080	3380
25	2040	2290	1870	2490	2420	5460	5740	11400	6820	2290	2140	3270
26	2100	2230	1900	2510	2410	5170	5570	12000	6970	2120	2160	3230
27	2080	2210	1880	2530	2420	5050	5150	10400	6790	2030	2350	3620
28	2090	2170	1890	2550	2420	5180	6020	9210	6490	2110	2330	3750
29	2250	2140	1880	2510	---	5560	6930	8570	6420	2150	2240	3830
30	2250	2200	1870	2500	---	5510	6780	8330	6250	2110	2320	3800
31	2230	---	1860	2490	---	5480	---	8660	---	2260	2360	---
TOTAL	62980	67290	61840	69400	69000	127520	167380	263280	245510	111440	76690	97720
MEAN	2032	2243	1995	2239	2464	4114	5579	8493	8184	3595	2474	3257
MAX	2840	2470	2170	2550	2520	5620	7630	12000	10600	6030	3280	4520
MIN	1820	2140	1860	1860	2410	1890	4240	5040	6250	2030	2070	2580
AC-FT	124900	133500	122700	137700	136900	252900	332000	522200	487000	221000	152100	193800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1897 - 1997, BY WATER YEAR (WY)

MEAN	1431	1432	1333	1256	1263	1455	3130	7565	7207	2580	1373	1352
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1897 - 1997	
ANNUAL TOTAL	946420		1420050			
ANNUAL MEAN	2586		3891		2618	
HIGHEST ANNUAL MEAN					5187	1984
LOWEST ANNUAL MEAN					838	1934
HIGHEST DAILY MEAN	7670	May 18	12000	May 26	35200	May 23 1920
LOWEST DAILY MEAN	1210	Aug 16	1820	Oct 16	106	Jul 20 1934
ANNUAL SEVEN-DAY MINIMUM	1300	Aug 12	1850	Oct 12	116	Jul 14 1934
INSTANTANEOUS PEAK FLOW			12900	May 26	[a]35700	May 23 1920
INSTANTANEOUS PEAK STAGE			9.92	May 26	14.95	May 23 1920
ANNUAL RUNOFF (AC-FT)	1877000		2817000		1896000	
10 PERCENT EXCEEDS	4830		8310		6290	
50 PERCENT EXCEEDS	2150		2510		1350	
90 PERCENT EXCEEDS	1500		1960		700	

a-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.--Published daily water temperature data are good, except for the period Sept. 21-30, which are fair. Published daily specific conductance data are good. Missing record Dec. 20-30 due to equipment malfunction, Sept. 21-30, probe buried, specific conductance record deleted. Daily maximum and minimum specific conductance data previous to water year 1995 are available in the district office.

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, 1,150 microsiemens Oct. 4-5; minimum, 278 microsiemens May 8.
WATER TEMPERATURE: Maximum, 22.1°C, July 25, Aug. 1; minimum, 0.0°C Jan. 7-8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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												
04...	1300	2910	1120	8.3	13.5	8.6	450	120	37	65	1	4.8
NOV												
13...	1300	2070	794	8.6	7.0	12.2	300	76	27	44	1	2.5
DEC												
20...	1030	2000	692	8.2	0.0	13.2	280	72	25	41	1	2.4
JAN												
17...	1300	2310	572	8.4	2.5	12.5	220	58	19	28	0.8	2.0
FEB												
24...	1330	2510	540	8.4	2.5	12.4	200	50	18	27	0.8	2.1
MAR												
31...	1245	5610	386	8.1	7.0	10.2	160	43	12	17	0.6	1.8
APR												
25...	1030	5890	384	8.2	7.5	8.8	150	40	13	18	0.7	2.0
28...	1245	6490	382	8.3	11.0	8.2	150	40	12	17	0.6	2.0
MAY												
16...	0830	9170	302	8.2	12.5	8.7	120	33	8.8	12	0.5	1.6
24...	1540	10600	358	8.0	11.0	9.2	140	37	11	16	0.6	1.8
JUN												
12...	1230	9240	412	8.1	14.5	8.4	160	43	13	19	0.7	2.0
JUL												
03...	1240	5610	376	8.2	15.0	8.8	140	39	11	15	0.6	1.8
18...	1130	2780	616	8.3	19.0	7.8	210	58	16	26	0.8	2.0
AUG												
12...	1140	3240	880	8.3	17.0	7.7	350	96	28	44	1	3.2
SEP												
05...	1215	2790	888	8.4	18.5	8.1	370	99	29	46	1	3.2

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO.--Continued

(National Water-Quality Assessment Program station)
(Irrigation network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	BICAR-BONATE[a] WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE[b] WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA-LINITY[c] 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)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT												
04...	183	--	150	420	10	0.5	13	794	765	1.08	6240	0.01
NOV												
13...	144	8	132	260	6.0	0.4	10	538	508	0.73	3010	<0.01
DEC												
20...	162	--	133	230	6.0	0.4	13	497	473	0.68	2680	<0.01
JAN												
17...	132	1	110	160	4.5	0.2	12	374	352	0.51	2330	0.01
FEB												
24...	134	--	110	160	4.5	0.3	10	363	339	0.49	2460	0.03
MAR												
31...	105	--	86	92	2.9	0.2	11	249	232	0.34	3770	<0.01
APR												
25...	104	--	85	99	3.0	0.2	11	262	239	0.36	4170	<0.01
28...	94	--	77	94	2.9	0.2	11	248	227	0.34	4350	<0.01
MAY												
16...	85	--	70	69	2.0	0.2	11	195	180	0.27	4830	<0.01
24...	90	--	74	93	2.3	0.2	13	238	221	0.32	6810	<0.01
JUN												
12...	102	--	84	110	2.5	0.2	14	274	258	0.37	6840	<0.01
JUL												
03...	98	--	80	98	2.3	0.2	13	251	230	0.34	3800	<0.01
18...	93	10	92	200	4.3	0.3	11	431	372	0.59	3230	<0.01
AUG												
12...	146	2	124	300	5.6	0.4	15	637	567	0.87	5570	0.01
SEP												
05...	149	8	136	300	6.1	0.5	14	643	581	0.87	4840	<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)	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)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
OCT												
04...	1.10	0.02	1.2	0.5	0.43	0.02	<0.01	4.5	5.2	<3	6	6
NOV												
13...	0.76	0.03	0.3	<0.2	0.05	<0.01	<0.01	2.8	0.6	6	12	5
DEC												
20...	0.85	<0.015	<0.2	<0.2	<0.01	<0.01	0.02	2.5	0.3	<3	23	5
JAN												
17...	0.46	<0.015	0.2	<0.2	<0.01	<0.01	<0.01	2.3	0.4	<3	13	3
FEB												
24...	0.36	0.02	<0.2	<0.2	<0.01	<0.01	0.02	2.4	0.5	<3	11	2
MAR												
31...	0.24	<0.015	0.4	<0.2	0.17	0.01	<0.01	2.9	1.2	4	9	1
APR												
25...	0.30	<0.015	0.6	0.3	0.19	0.02	0.02	4.3	2.8	19	9	1
28...	0.32	<0.015	0.6	0.2	0.26	0.02	0.01	4.0	0.3	8	8	2
MAY												
16...	0.21	0.02	0.7	<0.2	0.34	<0.01	0.01	4.3	2.5	12	4	1
24...	0.30	<0.015	0.5	<0.2	0.20	<0.01	0.02	4.2	--	11	6	2
JUN												
12...	0.24	<0.015	0.5	<0.2	0.20	<0.01	0.01	5.0	0.9	5	4	2
JUL												
03...	0.26	<0.015	0.3	<0.2	0.09	<0.01	0.01	3.5	1.0	6	4	2
18...	0.71	<0.015	0.3	<0.2	0.05	0.03	0.01	3.8	1.3	<3	4	3
AUG												
12...	1.08	<0.015	1.1	0.3	0.50	0.04	0.02	3.8	4.9	<3	2	5
SEP												
05...	1.08	<0.015	0.6	0.2	0.17	<0.01	0.02	4.1	0.6	3	6	5

a-Field dissolved bicarbonate, determined by incremental titration method.
b-Field dissolved carbonate, determined by incremental titration method.
c-Field total dissolved alkalinity, determined by incremental titration method.

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO.--Continued
(National Water-Quality Assessment Program station)
(Irrigation network station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT,[d] SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SAMPLER[f] TYPE (CODE) (84164)
OCT						
04...	1300	2910	460	3610	--	3039
04...	1320	2910	619	4860	98	3009
NOV						
13...	1300	2070	66	369	--	3039
13...	1320	2070	20	112	--	3009
DEC						
20...	1030	2000	16	86	--	3039
20...	1100	2010	25	136	--	3009
JAN						
17...	1300	2310	18	112	--	3039
17...	1320	2310	20	125	--	3009
FEB						
24...	1330	2510	18	122	--	3039
24...	1350	2510	59	400	--	3009
MAR						
31...	1245	5610	203	3070	--	3039
31...	1315	5630	266	4040	73	3009
APR						
25...	1030	5890	287	4560	--	3039
25...	1050	5860	394	6230	65	3009
28...	1245	6490	524	9180	--	3039
28...	1310	6580	495	8790	70	3009
MAY						
16...	0830	9170	459	11400	--	3039
16...	0900	9170	417	10300	74	3009
24...	1510	10600	544	15600	63	3009
24...	1540	10600	406	11600	--	3039
JUN						
12...	1230	9240	481	12000	--	3039
12...	1250	9240	284	7090	69	3009
JUL						
03...	1220	5510	113	1680	70	3009
03...	1240	5610	79	1200	--	3039
18...	1130	2780	65	488	--	3039
18...	1220	2780	89	668	91	3009
AUG						
12...	1140	3240	532	4650	--	3039
12...	1205	3210	551	4780	93	3009
SEP						
05...	1215	2790	211	1590	--	3039
05...	1230	2790	155	1170	92	3009

d-Suspended-sediment concentrations associated with a sampler type coded 3039 were determined from a subsample split of a composite sample.
f-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 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	979	961	970	872	847	858	755	735	747	697	686	692
2	977	960	971	847	829	837	735	712	723	696	692	694
3	976	947	955	835	829	832	744	720	730	702	689	696
4	1150	976	1080	832	780	793	722	684	701	754	700	715
5	1150	990	1060	811	786	800	732	699	718	796	746	773
6	991	965	977	802	791	797	725	704	714	746	685	706
7	972	950	959	791	769	777	741	721	728	690	678	684
8	954	943	949	777	773	775	723	700	710	678	618	645
9	962	945	951	773	760	766	716	696	708	680	653	668
10	954	938	949	763	755	760	736	706	716	679	655	665
11	958	943	950	759	752	755	781	736	754	673	660	666
12	954	929	939	762	747	754	789	769	781	667	658	663
13	933	924	929	754	741	747	790	757	778	662	612	629
14	931	916	925	746	739	743	757	730	745	612	591	599
15	924	915	920	752	743	747	730	713	719	606	599	603
16	927	914	921	780	745	754	713	678	694	600	568	580
17	923	913	919	813	780	802	698	638	685	603	539	568
18	924	912	917	813	779	792	690	622	655	592	523	562
19	919	907	912	799	774	780	685	649	666	589	535	567
20	938	914	920	816	799	810	---	---	---	590	545	571
21	943	911	921	825	815	819	---	---	---	587	550	569
22	920	904	913	826	778	808	---	---	---	581	570	574
23	909	887	897	778	753	768	---	---	---	576	563	568
24	902	888	896	759	743	750	---	---	---	586	566	573
25	901	883	889	761	740	753	---	---	---	582	546	555
26	896	883	889	740	723	731	---	---	---	586	541	561
27	897	873	885	737	717	727	---	---	---	608	579	587
28	873	855	866	742	729	736	---	---	---	632	599	606
29	905	866	877	741	725	731	---	---	---	645	579	612
30	942	905	925	757	741	751	---	---	---	603	570	582
31	923	872	888	---	---	---	702	686	694	573	555	564
MONTH	1150	855	933	872	717	775	---	---	---	796	523	622

		FEBRUARY			MARCH			APRIL			MAY	
1	577	556	566	545	537	540	399	376	383	367	352	357
2	575	563	567	552	531	540	458	399	431	394	367	379
3	580	570	575	623	552	581	480	458	471	408	387	394
4	580	568	573	635	623	630	480	446	465	411	383	398
5	577	564	571	627	558	582	510	458	485	393	348	372
6	579	569	573	558	516	534	506	471	484	360	312	334
7	578	557	567	549	505	522	472	453	458	323	292	307
8	572	551	558	522	477	499	465	440	446	300	278	290
9	561	520	542	499	467	482	451	434	443	306	288	298
10	569	521	544	489	467	477	456	441	447	309	292	302
11	591	523	555	480	454	465	456	440	447	317	300	309
12	592	547	569	460	437	445	455	441	448	320	301	310
13	590	550	566	446	427	433	459	445	452	308	284	297
14	588	545	562	436	415	423	459	443	450	306	288	298
15	554	519	534	421	402	410	451	438	445	306	285	295
16	563	537	546	409	391	398	451	430	437	310	296	301
17	545	537	540	411	396	405	435	394	413	314	293	305
18	559	544	552	414	386	397	394	358	374	342	307	317
19	581	558	566	409	379	391	362	337	348	323	308	316
20	609	560	585	413	380	391	346	315	329	318	300	311
21	562	540	548	432	381	397	327	309	319	330	312	322
22	544	528	535	428	380	394	336	315	323	414	330	344
23	537	510	525	404	379	388	338	326	332	440	395	417
24	563	531	543	397	370	379	385	336	359	395	368	381
25	565	547	553	380	361	368	410	385	395	404	369	385
26	548	526	533	403	371	382	412	386	398	542	402	485
27	542	527	536	445	370	396	399	386	392	516	438	459
28	548	540	543	426	368	396	400	361	382	439	425	429
29	---	---	---	404	392	397	368	342	350	444	430	437
30	---	---	---	397	382	388	352	336	343	443	434	439
31	---	---	---	397	383	388	---	---	---	434	404	417
MONTH	609	510	555	635	361	446	510	309	408	542	278	355

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 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	404	372	387	400	370	384	926	881	897	853	843	847
2	373	347	359	413	368	384	886	874	880	866	853	858
3	352	344	349	413	382	395	899	886	893	892	866	879
4	355	345	351	421	385	399	899	889	897	901	892	896
5	370	340	348	430	400	413	889	878	881	910	900	904
6	355	345	349	438	406	419	896	876	890	903	880	889
7	368	352	360	439	415	427	894	875	887	880	875	877
8	384	368	375	466	424	441	887	867	873	889	876	882
9	450	381	414	487	446	460	867	860	863	882	856	868
10	493	450	470	511	473	487	867	860	863	857	845	851
11	488	431	446	513	478	493	915	866	880	847	844	846
12	440	419	431	543	507	521	917	893	907	846	837	842
13	427	414	419	559	533	544	893	870	881	841	838	840
14	435	412	419	581	557	565	870	856	861	838	812	825
15	441	435	439	597	579	586	856	839	848	823	821	823
16	443	437	440	628	594	610	839	822	828	903	810	855
17	448	434	441	641	613	629	837	814	822	903	818	858
18	443	431	436	660	607	652	837	794	816	818	804	809
19	438	382	410	719	602	679	794	779	787	816	806	811
20	387	369	377	740	719	730	783	775	779	818	788	800
21	391	372	380	756	736	745	775	771	773	---	---	---
22	394	378	385	764	744	755	790	773	781	---	---	---
23	390	376	384	781	764	772	792	787	790	---	---	---
24	400	377	385	854	774	802	790	785	788	---	---	---
25	395	347	370	864	828	843	793	787	790	---	---	---
26	366	335	351	882	851	870	794	790	792	---	---	---
27	378	349	361	926	882	908	802	791	795	---	---	---
28	395	369	379	957	926	944	815	802	809	---	---	---
29	391	365	377	969	873	947	826	813	818	---	---	---
30	402	369	379	951	901	942	837	824	829	---	---	---
31	---	---	---	948	926	940	843	837	840	---	---	---
MONTH	493	335	392	969	368	635	926	771	840	---	---	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.9	12.8	14.3	7.6	5.8	6.7	4.1	3.1	3.6	4.3	3.1	3.7
2	15.8	13.1	14.4	7.8	5.7	6.7	3.9	2.6	3.2	4.1	2.7	3.5
3	15.1	13.5	14.0	7.2	6.1	6.7	3.0	1.9	2.5	4.8	3.7	4.2
4	14.1	12.6	13.3	8.5	6.5	7.4	3.0	1.5	2.1	4.3	3.1	3.8
5	15.2	12.6	13.8	9.1	7.8	8.3	2.5	1.4	2.0	3.1	2.0	2.6
6	15.9	13.4	14.6	7.9	6.3	7.1	3.2	2.4	2.8	2.0	.7	1.3
7	16.0	13.5	14.7	6.8	5.5	6.1	4.2	2.7	3.3	1.2	.0	.6
8	15.8	13.2	14.5	6.5	4.7	5.6	4.0	2.4	3.2	1.5	.0	.8
9	15.7	13.1	14.4	7.1	4.9	6.0	4.1	2.5	3.3	2.0	.4	1.3
10	15.7	13.0	14.3	7.7	5.4	6.5	5.3	3.7	4.4	2.6	1.2	1.8
11	15.6	13.0	14.4	7.7	5.7	6.7	6.4	5.1	5.7	3.2	1.9	2.5
12	15.6	13.1	14.4	7.7	5.6	6.6	6.6	5.6	6.0	3.0	2.1	2.5
13	15.2	12.8	14.1	7.5	5.9	6.7	6.5	5.1	5.7	3.5	2.1	2.8
14	15.6	13.2	14.3	7.8	6.3	7.1	5.5	3.8	5.0	3.1	2.1	2.7
15	14.7	12.5	13.7	7.4	6.1	6.8	3.8	2.2	2.9	2.6	1.5	2.0
16	13.3	11.0	12.1	6.7	5.4	6.0	2.8	1.8	2.3	2.4	1.0	1.6
17	11.0	8.8	9.8	5.4	4.3	4.7	1.8	---	---	1.8	.4	1.0
18	9.8	7.5	8.8	5.7	4.2	5.0	---	---	---	1.5	.3	.8
19	10.5	8.2	9.3	7.6	5.6	6.5	---	---	---	2.1	.4	1.1
20	10.1	8.5	9.3	8.6	6.7	7.5	---	---	---	1.8	.7	1.2
21	8.5	6.2	7.1	8.4	7.1	7.7	---	---	---	1.9	.7	1.3
22	6.8	4.7	5.8	8.5	7.2	7.8	---	---	---	2.5	1.2	1.8
23	7.7	5.2	6.4	8.4	7.6	8.1	---	---	---	3.0	2.1	2.5
24	7.5	5.8	6.8	7.6	6.3	7.0	---	---	---	3.2	1.9	2.5
25	7.8	6.6	7.2	7.2	5.8	6.5	---	---	---	2.5	1.7	2.1
26	8.2	6.8	7.4	6.8	5.8	6.3	---	---	---	2.4	1.6	2.0
27	7.5	6.0	6.8	6.0	4.7	5.4	---	---	---	4.2	2.3	3.2
28	7.4	6.5	7.0	5.5	4.2	4.9	---	---	---	3.5	2.6	3.1
29	7.9	6.7	7.2	4.5	3.7	4.2	---	---	---	4.0	2.4	3.1
30	8.3	6.7	7.4	4.5	3.6	4.0	4.2	---	---	3.8	2.5	3.1
31	8.0	6.5	7.1	---	---	---	4.8	3.1	3.9	3.6	2.3	2.9
MONTH	16.0	4.7	10.9	9.1	3.6	6.4	---	---	---	4.8	.0	2.2

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO--Continued

(National Water-Quality Assessment Program station)
(Irrigation network station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.0	2.4	3.0	4.2	2.2	3.2	6.5	4.7	5.7	9.1	8.2	8.7
2	4.2	2.8	3.3	4.7	2.6	3.4	5.0	4.0	4.6	8.5	7.5	8.0
3	4.0	3.1	3.4	4.6	2.4	3.6	7.4	4.7	5.9	9.9	8.0	8.9
4	4.4	3.1	3.5	5.3	2.8	3.9	8.0	6.7	7.5	11.1	9.3	10.2
5	3.8	2.7	3.2	4.5	2.2	3.3	6.7	4.5	5.4	11.4	10.2	10.7
6	3.4	1.9	2.9	5.0	2.3	3.5	5.0	4.2	4.6	11.7	10.8	11.1
7	2.9	1.1	2.0	5.7	3.2	4.3	6.4	4.7	5.6	11.2	10.4	10.8
8	2.8	1.2	1.9	5.6	4.2	4.7	6.8	5.7	6.4	10.7	10.1	10.5
9	2.9	1.1	1.9	5.9	4.1	4.9	7.5	6.4	6.9	10.7	10.1	10.3
10	2.3	1.1	1.7	6.2	4.7	5.3	7.0	5.4	6.4	11.0	9.7	10.3
11	2.9	.8	1.7	6.3	5.0	5.5	5.4	4.1	4.8	11.2	9.8	10.5
12	3.2	1.9	2.4	6.5	5.3	5.8	5.0	3.5	4.2	11.8	10.8	11.3
13	2.9	1.3	2.0	6.5	5.4	6.0	6.1	4.2	5.0	11.4	10.8	11.1
14	3.4	1.5	2.3	5.5	4.5	5.1	7.4	5.4	6.3	11.8	10.8	11.3
15	4.3	2.0	3.0	6.0	4.5	5.2	8.9	6.7	7.8	12.4	11.3	11.8
16	4.8	3.0	3.7	6.9	5.7	6.3	9.6	7.9	8.6	12.6	11.6	12.1
17	5.8	3.4	4.3	6.9	5.7	6.4	9.8	8.4	9.0	12.1	11.4	11.7
18	5.0	4.1	4.5	6.3	5.2	5.8	9.7	8.6	9.0	13.0	11.5	12.2
19	5.7	3.8	4.6	6.7	5.7	6.1	9.5	8.8	9.1	12.9	12.2	12.5
20	4.4	2.8	3.8	7.0	6.0	6.5	9.6	8.8	9.1	12.6	11.2	12.1
21	3.0	1.3	2.2	7.2	6.5	6.8	9.1	7.8	8.7	11.6	11.1	11.3
22	3.3	1.7	2.4	7.3	6.1	6.7	8.7	7.6	8.1	11.5	10.4	11.1
23	2.8	1.9	2.3	7.7	6.5	7.1	8.9	6.8	7.9	11.6	10.1	10.6
24	3.1	1.1	2.0	7.2	5.1	6.4	8.0	6.6	7.2	12.1	9.8	11.3
25	4.0	2.1	2.9	5.5	4.0	4.8	8.7	6.9	7.8	9.9	9.3	9.5
26	4.3	2.1	3.1	6.5	5.0	5.7	10.2	8.4	9.3	10.7	9.4	9.9
27	3.9	2.8	3.3	7.5	5.9	6.6	10.2	8.9	9.5	11.6	10.4	11.0
28	3.5	2.7	3.1	7.1	5.8	6.5	10.8	9.7	10.2	11.9	11.3	11.6
29	---	---	---	7.7	6.6	7.1	10.2	9.0	9.8	12.3	11.8	12.0
30	---	---	---	7.1	6.2	6.7	9.0	7.5	8.2	13.7	12.1	12.8
31	---	---	---	7.2	6.4	6.7	---	---	---	14.2	13.6	13.9
MONTH	5.8	.8	2.9	7.7	2.2	5.5	10.8	3.5	7.3	14.2	7.5	11.0
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.9	14.2	14.5	15.2	14.3	14.8	22.1	19.2	20.5	19.1	16.5	17.8
2	14.2	12.6	13.8	15.3	13.9	14.6	21.8	19.6	20.8	20.5	18.0	19.1
3	13.7	12.4	13.0	15.5	13.9	14.6	21.7	19.4	20.5	21.0	18.8	19.7
4	14.5	13.5	13.9	15.8	14.4	15.0	20.9	19.7	20.4	19.6	18.3	18.9
5	14.4	13.5	13.8	15.9	14.7	15.2	20.7	18.8	19.7	19.5	17.7	18.5
6	14.6	13.6	14.0	16.0	14.8	15.3	21.2	19.0	20.1	18.6	17.0	17.8
7	13.7	13.2	13.5	16.2	14.5	15.3	20.9	18.5	19.7	17.5	15.8	16.7
8	13.3	12.3	12.9	16.4	14.4	15.2	21.8	18.4	19.9	19.1	16.6	17.7
9	12.4	11.6	12.0	15.9	15.0	15.5	20.7	19.2	19.9	18.1	17.1	17.8
10	13.4	12.4	13.0	17.4	15.0	16.2	19.2	17.9	18.4	17.9	16.0	16.9
11	13.8	13.0	13.4	16.8	15.5	16.5	18.0	17.0	17.6	17.9	16.7	17.2
12	14.5	13.6	14.1	17.2	15.0	16.0	18.1	16.5	17.2	18.4	16.7	17.4
13	14.2	13.8	14.1	18.2	16.2	17.0	19.1	17.0	17.8	17.6	16.6	17.1
14	14.3	13.3	13.9	18.6	16.4	17.4	18.5	16.7	17.5	17.4	16.0	16.7
15	13.9	13.1	13.5	19.3	16.7	17.9	19.6	17.2	18.3	17.0	16.0	16.7
16	14.4	13.2	14.0	19.7	17.3	18.4	19.7	17.9	18.6	17.0	15.4	16.1
17	15.2	14.1	14.6	19.6	17.4	18.4	19.5	17.1	18.3	17.2	16.0	16.5
18	15.6	14.7	15.2	19.6	17.7	18.4	20.5	17.9	19.1	17.6	16.4	17.0
19	16.1	14.7	15.4	18.7	17.2	17.9	20.8	18.4	19.4	17.5	16.9	17.2
20	15.9	14.9	15.4	20.0	17.0	18.4	21.0	17.9	19.4	17.6	15.9	16.7
21	16.2	14.9	15.5	21.0	17.9	19.3	20.9	18.6	19.6	16.5	14.5	15.3
22	16.3	15.0	15.6	20.9	19.1	20.0	21.8	18.2	19.8	15.5	14.1	14.7
23	16.4	15.1	15.7	21.5	18.9	20.0	21.2	18.9	20.2	16.1	14.5	15.2
24	16.2	15.0	15.6	21.7	18.6	20.0	21.2	18.5	19.8	16.4	14.4	15.3
25	15.6	14.9	15.3	22.1	18.8	20.5	21.5	18.8	20.0	16.3	14.6	15.4
26	15.3	14.4	14.9	22.0	18.9	20.5	19.7	17.9	19.1	15.9	15.3	15.6
27	15.2	14.2	14.7	22.0	18.4	20.1	19.2	17.0	18.1	16.8	14.9	15.8
28	15.8	14.9	15.3	21.0	19.6	20.3	21.1	18.0	19.3	17.6	15.9	16.6
29	15.6	14.8	15.2	21.1	18.4	19.6	21.2	18.3	19.7	16.4	15.2	15.7
30	15.5	14.4	15.0	20.1	18.8	19.5	20.4	18.2	19.2	16.3	14.7	15.3
31	---	---	---	21.2	18.1	19.5	18.6	17.1	17.7	---	---	---
MONTH	16.4	11.6	14.4	22.1	13.9	17.7	22.1	16.5	19.2	21.0	14.1	16.8

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.--Records good except for estimated daily discharges, which are poor. 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	81	7.2	5.8	4.7	4.1	3.2	30	50	67	54	79
2	72	82	7.4	5.8	4.7	4.2	3.3	31	48	58	62	74
3	81	82	7.4	6.0	4.6	4.2	3.1	38	50	71	67	73
4	71	83	7.2	5.8	4.7	4.0	3.3	36	48	78	71	67
5	73	82	7.3	5.7	4.7	3.9	3.0	38	53	77	68	63
6	72	77	7.3	5.6	4.6	4.1	2.8	39	53	72	47	73
7	75	75	6.9	5.5	4.5	4.0	2.7	42	49	54	48	53
8	80	75	6.7	5.6	4.6	4.0	2.6	43	49	55	50	52
9	82	42	6.8	5.6	4.7	3.8	3.8	52	49	62	48	48
10	74	12	7.0	5.6	4.7	3.7	34	63	53	67	51	55
11	74	12	6.9	5.6	4.9	3.7	87	60	66	65	55	55
12	72	11	6.9	5.6	4.9	3.7	78	64	64	66	56	53
13	68	11	6.9	5.6	4.7	3.5	69	69	58	68	55	61
14	69	11	6.6	5.5	4.7	3.4	66	61	68	71	53	50
15	75	11	6.3	5.3	4.7	3.4	64	57	57	73	53	49
16	77	10	6.4	5.2	4.7	3.4	71	47	57	66	66	45
17	75	9.8	6.1	5.1	4.9	3.5	73	50	57	73	77	43
18	74	9.4	6.3	5.2	4.7	3.5	70	47	61	72	72	45
19	69	8.8	6.7	5.2	4.7	3.5	75	44	58	72	70	48
20	76	8.4	6.6	5.3	4.8	3.6	66	43	50	75	65	65
21	73	8.3	6.8	5.3	4.6	3.5	67	44	44	72	64	78
22	67	8.6	6.8	5.2	4.6	3.5	63	41	43	72	58	49
23	75	8.0	6.5	5.2	4.6	3.7	70	44	41	80	59	60
24	71	7.9	6.2	5.0	4.5	3.7	70	43	39	89	54	61
25	82	8.0	6.1	5.0	4.5	3.5	69	60	e46	89	61	63
26	70	7.9	6.1	5.0	4.6	3.5	58	50	e53	82	58	65
27	66	7.7	6.4	6.1	4.7	3.6	47	45	57	77	53	60
28	70	7.8	6.2	4.9	4.5	3.4	45	44	52	75	70	58
29	70	7.9	6.1	4.8	---	3.4	43	46	55	70	76	58
30	73	7.4	6.0	4.7	---	3.3	36	45	64	64	74	56
31	81	---	5.9	4.8	---	3.2	---	44	---	62	75	---
TOTAL	2275	872.9	206.0	166.6	130.8	113.5	1348.8	1460	1592	2194	1890	1759
MEAN	73.4	29.1	6.65	5.37	4.67	3.66	45.0	47.1	53.1	70.8	61.0	58.6
MAX	82	83	7.4	6.1	4.9	4.2	87	69	68	89	77	79
MIN	66	7.4	5.9	4.7	4.5	3.2	2.6	30	39	54	47	43
AC-FT	4510	1730	409	330	259	225	2680	2900	3160	4350	3750	3490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1997, BY WATER YEAR (WY)

MEAN	77.5	21.3	13.8	5.92	4.57	7.37	46.3	66.2	66.5	73.1	77.4	77.3
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1976 - 1997	
ANNUAL TOTAL	15789.9		14008.6			
ANNUAL MEAN	43.1		38.4		45.0	
HIGHEST ANNUAL MEAN					54.0	1978
LOWEST ANNUAL MEAN					35.2	1992
HIGHEST DAILY MEAN	102	Aug 21	[a]89	Jul 24	150	May 12 1980
LOWEST DAILY MEAN	3.2	Mar 27	2.6	Apr 8	2.0	Jan 31 1979
ANNUAL SEVEN-DAY MINIMUM	3.4	Mar 26	3.0	Apr 2	2.5	Jan 22 1982
INSTANTANEOUS PEAK FLOW			148	Sep 21	[b]390	Jul 23 1983
INSTANTANEOUS PEAK STAGE			5.28	Sep 21	[c]6.21	Sep 8 1991
ANNUAL RUNOFF (AC-FT)	31320		27790		32580	
10 PERCENT EXCEEDS	81		74		87	
50 PERCENT EXCEEDS	53		46		55	
90 PERCENT EXCEEDS	3.7		4.1		4.0	

e-Estimated.
a-Also occurred Jul 25.
b-Gage height unknown.
c-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 current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1996 to September 1997 (discontinued).
WATER TEMPERATURES: October 1996 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry since October 1996.

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

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 4,810 microsiemens, Dec. 5; minimum, 801 microsiemens, Apr. 19.
WATER TEMPERATURES: Maximum, 24.4°C, July 17; minimum, 1.6°C, Dec. 18.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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...	1045	73	1800	8.1	5.5	10.5	620	160	54	130	2	5.2
NOV												
19...	1200	8.5	4440	8.0	9.0	10.3	2300	550	220	290	3	9.3
DEC												
18...	1002	6.1	4460	8.1	1.5	11.8	2100	510	210	320	3	8.5
JAN												
27...	1350	5.1	4640	8.1	9.0	10.8	2300	550	220	310	3	8.8
FEB												
24...	1335	4.4	4690	8.1	6.5	11.7	2400	550	240	330	3	8.5
MAR												
26...	1200	3.5	4510	8.1	8.5	11.6	2300	520	240	340	3	8.9
APR												
16...	1615	70	1070	8.0	13.5	8.7	320	82	27	94	2	3.7
24...	0930	80	871	8.0	9.0	9.2	300	79	25	61	2	3.3
30...	0930	49	1220	8.0	9.5	9.4	480	130	39	81	2	4.1
MAY												
09...	1210	53	1080	8.0	15.0	8.4	450	120	38	65	1	3.8
15...	1020	71	984	7.9	13.0	8.5	410	110	32	54	1	3.8
21...	1110	45	1230	8.0	15.0	8.2	540	140	46	67	1	3.5
29...	0950	48	1330	7.9	14.0	8.4	540	140	50	73	1	3.2
JUN												
05...	1110	60	1100	8.0	15.5	8.2	460	120	40	55	1	2.9
11...	1210	65	1080	8.0	16.0	8.1	450	120	38	54	1	3.1
18...	0940	75	1040	7.8	16.0	7.9	450	120	37	56	1	3.8
25...	1000	48	1500	8.0	14.5	8.1	640	170	55	74	1	4.3
JUL												
02...	1040	66	1360	7.8	14.5	8.2	560	140	49	67	1	4.1
17...	1015	78	1360	8.0	18.0	7.3	510	130	42	81	2	4.3
23...	1100	90	1420	8.0	20.5	7.1	540	140	45	89	2	4.2
AUG												
04...	1020	80	1480	7.9	19.5	7.2	590	160	47	91	2	4.5
21...	0930	73	1610	8.0	18.5	7.5	660	180	53	101	2	4.5
SEP												
04...	1050	83	1730	8.0	19.0	7.6	660	170	54	115	2	4.7
23...	1025	61	1750	8.0	15.0	8.4	730	210	53	126	2	5.6

09153290 REED WASH NEAR MACK, CO--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	BICAR-BONATE[a] WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY[b] 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)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
OCT												
22...	229	188	540	150	0.4	9.4	1240	1170	1.69	244	0.04	1.8
NOV												
19...	417	342	2300	210	0.3	11	4060	3830	5.52	92.8	0.07	8.2
DEC												
18...	412	338	2300	220	0.2	11	4110	3820	5.59	67.7	0.08	8.3
JAN												
27...	422	346	2300	220	0.3	8.9	4230	3860	5.75	58.5	0.08	6.8
FEB												
24...	398	326	2400	230	0.2	7.8	4210	4000	5.73	50.0	0.07	8.0
MAR												
26...	413	339	2400	230	0.2	7.5	4280	3980	5.82	40.4	0.06	7.5
APR												
16...	185	152	220	110	0.3	9.5	687	638	0.93	130	<0.01	0.37
24...	161	132	220	65	0.3	9.9	576	545	0.78	124	0.03	0.89
30...	184	151	370	78	0.3	10	838	805	1.14	112	0.04	1.3
MAY												
09...	160	131	340	56	0.3	11	734	714	1.0	105	0.03	1.3
15...	162	133	310	44	0.2	11	691	650	0.94	133	0.03	1.1
21...	170	139	430	50	0.2	10	888	836	1.21	108	0.04	1.6
29...	156	128	480	56	0.2	10	954	889	1.30	124	0.02	1.5
JUN												
05...	160	131	390	44	0.2	9.0	812	746	1.10	132	0.02	1.2
11...	134	110	380	42	0.2	8.8	774	713	1.05	136	0.02	1.4
18...	137	112	350	42	0.2	9.2	738	694	1.00	149	0.03	1.5
25...	182	149	570	65	0.2	8.1	1150	1050	1.56	149	0.05	2.6
JUL												
02...	168	138	490	57	0.2	8.2	1010	913	1.37	179	0.03	2.3
17...	148	121	440	85	0.3	7.7	965	870	1.31	203	0.03	1.7
23...	149	122	450	92	0.3	7.7	1010	915	1.37	245	0.02	1.6
AUG												
04...	173	142	480	91	0.3	9.1	1060	971	1.44	229	0.02	1.6
21...	188	154	550	100	0.3	9.7	1200	1100	1.63	236	0.02	1.8
SEP												
04...	200	164	560	120	0.3	9.3	1290	1150	1.76	290	0.02	1.8
23...	193	158	650	100	0.4	9.8	1320	1260	1.80	218	0.01	2.0

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	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)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
OCT											
22...	0.06	0.7	0.2	0.28	0.06	0.05	3.5	2.0	<3	21	18
NOV											
19...	0.23	0.5	0.4	<0.01	<0.01	0.01	--	0.2	<15	110	96
DEC											
18...	0.05	0.5	0.4	<0.01	<0.01	<0.01	4.9	0.5	<9	120	55
JAN											
27...	0.06	0.5	0.4	0.03	<0.01	<0.01	5.2	0.3	<9	100	110
FEB											
24...	0.07	0.6	0.5	<0.01	<0.01	<0.01	5.6	0.2	<9	100	49
MAR											
26...	0.15	0.6	0.5	<0.01	<0.01	<0.01	5.4	0.2	<9	120	90
APR											
16...	<0.015	0.6	<0.2	0.26	<0.01	0.01	2.9	2.9	<3	10	5
24...	0.08	1.8	0.4	0.99	0.22	0.25	4.0	7.9	6	10	7
30...	0.08	1.7	0.5	0.81	0.09	0.12	4.0	6.5	<30	22	10
MAY											
09...	0.05	2.1	0.4	1.2	0.16	0.19	4.9	8.4	6	22	10
15...	0.08	2.2	0.3	1.3	0.29	0.28	5.3	6.4	8	19	13
21...	0.15	2.2	0.5	1.2	0.11	0.11	5.3	5.5	6	21	17
29...	0.02	0.9	0.2	0.32	0.05	0.06	4.8	2.7	6	28	14
JUN											
05...	<0.015	1.6	0.3	0.84	0.03	0.05	4.9	5.8	6	20	16
11...	0.03	1.8	<0.2	1.1	0.07	0.09	4.9	>5.0	5	21	15
18...	0.05	1.7	0.5	1.0	0.15	0.10	4.7	>5.0	15	20	17
25...	0.12	1.9	0.3	1.0	0.15	0.14	4.6	3.6	<3	26	18
JUL											
02...	0.47	3.1	2.0	1.0	0.14	0.14	5.4	>5.0	3	22	22
17...	<0.015	2.4	0.4	1.3	0.10	0.10	4.6	>5.0	5	16	16
23...	<0.015	2.1	0.3	1.0	0.06	0.06	4.3	>5.0	5	14	16
AUG											
04...	0.03	1.5	0.3	0.78	0.04	0.05	--	--	<3	19	20
21...	<0.015	1.0	<0.2	0.58	0.04	0.04	3.5	3.6	6	14	18
SEP											
04...	<0.015	1.0	<0.2	0.42	0.04	0.04	3.4	2.9	<3	16	21
23...	<0.015	7.5	<0.2	0.92	<0.01	0.01	3.4	>20	<3	3	--

a-Field dissolved bicarbonate, determined by incremental titration method.
b-Field total dissolved alkalinity, determined by incremental titration method.

09153290 REED WASH NEAR MACK, CO--Continued

(National Water-Quality Assessment Program station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT,[c] SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SAMPLER[d] TYPE (CODE) (84164)
OCT						
22...	1045	73	258	51	--	3045
NOV						
19...	1200	8.5	60	1.4	--	3045
DEC						
18...	1002	6.1	93	1.5	--	8010
JAN						
27...	1350	5.1	95	1.3	--	3045
FEB						
24...	1335	4.4	18	0.21	--	3045
MAR						
26...	1200	3.5	23	0.22	--	3045
26...	1201	3.5	26	0.25	--	3045
APR						
16...	1600	70	351	66	88	3044
16...	1615	70	350	66	--	3045
24...	0915	80	752	161	94	3044
24...	0930	80	717	154	--	3045
30...	0910	49	812	108	96	3044
30...	0930	49	794	106	--	3045
MAY						
09...	1200	57	1080	165	96	3044
09...	1210	53	1150	165	--	3045
15...	1000	71	833	160	91	3044
15...	1020	71	898	172	--	3045
21...	1055	46	1080	134	96	3044
21...	1110	45	1030	125	--	3045
21...	1111	50	1050	141	--	3045
29...	0935	49	412	55	88	3044
29...	0950	48	430	56	--	3045
JUN						
05...	1055	61	694	114	87	3044
05...	1110	60	695	113	--	3045
11...	1205	67	944	171	91	3044
11...	1210	65	949	167	--	3045
18...	0930	75	1050	213	93	3044
18...	0940	75	1040	211	--	3045
25...	1000	48	718	93	--	3045
25...	1001	48	813	105	--	3045
25...	1010	48	823	107	--	3045
25...	1011	48	841	109	--	3045
JUL						
02...	1030	67	953	171	92	3044
02...	1040	66	956	170	--	3045
17...	1015	78	1240	261	--	3045
23...	1100	90	906	220	--	3045
AUG						
04...	1020	80	768	166	--	3045
21...	0930	73	578	114	--	3045
SEP						
04...	1050	83	364	82	--	3045
23...	1025	61	9370	1550	100	3045

c-Suspended-sediment concentrations associated with sampler type 3045 were determined from a subsample split of a composite sample.
d-Code 3044 and 3045 are water-quality and suspended-sediment samplers; Code 8010, other.

09153290 REED WASH NEAR MACK, CO--Continued

(National Water-Quality Assessment Program station)

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	1660	1610	1640	1640	1610	1620	4760	4730	4740	4460	4420	4440
2	1700	1610	1630	1640	1600	1620	4770	4740	4760	4450	4420	4430
3	1700	1560	1620	1650	1620	1640	4780	4750	4770	4450	4350	4400
4	1660	1600	1630	1650	1610	1630	4790	4770	4780	4450	4390	4420
5	1650	1560	1610	1670	1600	1640	4810	4780	4790	4450	4350	4420
6	1640	1600	1630	1660	1620	1640	4790	4740	4760	4450	4370	4410
7	1630	1550	1590	1650	1600	1630	4760	4730	4750	4410	4370	4390
8	1610	1560	1590	1630	1590	1610	4770	4730	4750	4390	4360	4370
9	1680	1560	1600	3590	1620	2280	4780	4730	4760	4390	4350	4370
10	1680	1620	1650	4290	3590	4210	4750	4670	4710	4400	4360	4380
11	1750	1630	1680	4300	3740	4140	4690	4640	4660	4390	4370	4380
12	1760	1670	1710	4290	4090	4250	4640	4600	4620	4390	4330	4350
13	1830	1690	1760	4300	4280	4290	4620	4560	4590	4380	4330	4360
14	1820	1720	1760	4310	4280	4300	4570	4530	4550	4400	4350	4370
15	1780	1680	1730	4310	4240	4280	4550	4500	4520	4410	4390	4400
16	1770	1680	1720	4310	4250	4280	4520	4490	4500	4440	4400	4420
17	1820	1670	1740	4290	4260	4270	4510	4480	4500	4450	4410	4430
18	1910	1680	1770	4320	4260	4290	4530	4490	4510	4450	4420	4440
19	1900	1750	1820	4430	4310	4380	4530	4500	4510	4460	4430	4440
20	1860	1680	1790	4470	4420	4440	4530	4500	4510	4460	4420	4440
21	1910	1720	1800	4490	4460	4480	4530	4500	4510	4450	4400	4430
22	1900	1730	1820	4540	4410	4480	4530	4490	4510	4450	4400	4420
23	1820	1710	1780	4560	4430	4520	4500	4470	4490	4420	4370	4390
24	1820	1750	1790	4600	4560	4580	4520	4490	4510	4420	4380	4400
25	1840	1690	1780	4610	4580	4590	4530	4510	4520	4440	4370	4410
26	1860	1770	1810	4610	4500	4590	4530	4500	4510	4440	4400	4410
27	1860	1730	1780	4670	4600	4630	4520	4430	4490	4440	3030	4130
28	1850	1720	1780	4730	4660	4680	4470	4440	4450	4310	3210	3980
29	1820	1700	1770	4720	4640	4680	4480	4430	4460	4340	4240	4290
30	1750	1650	1720	4740	4680	4720	4470	4430	4450	4340	4280	4320
31	1680	1620	1650	---	---	---	4470	4420	4440	4360	4310	4340
MONTH	1910	1550	1710	4740	1590	3610	4810	4420	4590	4460	3030	4370

		FEBRUARY			MARCH			APRIL			MAY	
1	4340	4260	4310	4650	4600	4630	4690	4640	4670	1660	1350	1490
2	4310	4230	4280	4660	4630	4650	4700	4620	4670	1560	1320	1440
3	4310	4250	4280	4690	4620	4660	4730	4650	4690	1530	1180	1330
4	4330	4250	4300	4670	4620	4650	4750	4620	4690	1480	1300	1400
5	4330	4250	4310	4710	4640	4670	4700	4630	4670	1500	1300	1420
6	4380	4300	4340	4700	4630	4670	4740	4610	4680	1580	1320	1430
7	4380	4290	4340	4720	4630	4680	4710	4590	4660	1490	1180	1280
8	4390	4290	4340	4710	4630	4670	4720	4520	4640	1250	1120	1190
9	4400	4320	4360	4690	4600	4650	4560	3910	4290	1220	1040	1120
10	4500	4330	4430	4690	4580	4640	4520	1050	3250	1140	952	1040
11	4560	4410	4480	4670	4550	4630	1210	1010	1040	1160	965	1080
12	4460	4270	4410	4680	4540	4620	1100	1030	1050	1160	967	1060
13	4460	4350	4400	4600	4450	4530	1030	936	991	1030	805	953
14	4430	4340	4380	4530	4480	4510	936	891	905	1200	859	991
15	4400	4230	4330	4540	4460	4500	963	897	925	1210	973	1110
16	4310	4180	4270	4510	4430	4480	1060	963	1030	1210	1030	1150
17	4360	4280	4310	4500	4450	4480	1150	1040	1060	1290	1020	1140
18	4420	4310	4370	4510	4410	4470	1110	1030	1070	1270	1100	1200
19	4420	4140	4300	4510	4420	4470	1030	801	915	1350	1030	1170
20	4270	4200	4240	4510	4410	4460	930	833	881	1510	1190	1350
21	4340	4150	4250	4510	4420	4460	899	868	884	1640	1300	1450
22	4230	4010	4130	4490	4310	4400	920	870	896	1450	1200	1310
23	4380	4230	4310	4530	4300	4420	974	871	909	1450	1200	1290
24	4520	4380	4470	4550	4480	4510	974	860	915	1470	1190	1360
25	4550	4510	4530	4530	4440	4490	970	831	893	1380	1150	1260
26	4590	4550	4570	4520	4440	4490	983	878	934	1510	1190	1370
27	4620	4590	4600	4520	4440	4500	1100	980	1020	1580	1450	1500
28	4630	4600	4620	4560	4450	4500	1200	1050	1100	1520	1350	1440
29	---	---	---	4620	4440	4550	1260	1130	1180	1360	1280	1330
30	---	---	---	4650	4560	4610	1640	1200	1360	1350	1270	1310
31	---	---	---	4670	4590	4640	---	---	---	1480	1310	1420
MONTH	4630	4010	4370	4720	4300	4560	4750	801	2160	1660	805	1270

09153290 REED WASH NEAR MACK, CO--Continued

(National Water-Quality Assessment Program station)

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	1440	1280	1350	1510	1310	1420	1780	1510	1660	1770	1520	1620
2	1440	1280	1340	1750	1340	1540	1630	1380	1470	1790	1470	1610
3	1300	1060	1170	1610	1220	1410	1740	1470	1570	1760	1650	1710
4	1270	1140	1210	1380	1180	1280	1690	1420	1550	2160	1700	1880
5	1280	1100	1210	1490	1250	1360	1950	1490	1690	2190	1810	1980
6	1370	1140	1240	1520	1220	1330	2060	1780	1910	2060	1820	1960
7	1360	1210	1280	1340	1180	1260	1860	1610	1780	1880	1630	1720
8	1500	1180	1320	1410	1290	1350	1810	1590	1720	1840	1680	1750
9	1430	1200	1290	1510	1310	1420	1860	1630	1720	1890	1820	1860
10	1320	1100	1210	1410	1200	1310	1740	1500	1650	1890	1830	1860
11	1230	1010	1120	1380	1300	1340	1730	1490	1620	2050	1850	1930
12	1130	905	992	1410	1320	1360	1620	1470	1550	2040	1930	1980
13	1060	961	1020	1440	1320	1390	1600	1460	1540	2120	1720	1980
14	1040	938	991	1440	1360	1400	1600	1500	1560	2260	2040	2140
15	1160	1010	1090	1480	1340	1420	1590	1440	1530	2190	2090	2130
16	1210	1080	1140	1590	1470	1520	1740	1400	1520	2280	2160	2210
17	1230	1110	1160	1980	1440	1670	1900	1610	1710	2290	2220	2250
18	1370	1130	1240	2000	1790	1890	1920	1590	1760	2300	2130	2210
19	1440	1150	1320	1850	1580	1730	1660	1560	1610	2310	2140	2250
20	1550	1230	1420	1780	1450	1590	1760	1600	1670	2400	1730	2180
21	1590	1320	1470	1590	1410	1490	1830	1640	1720	2360	1600	2100
22	1540	1260	1420	1480	1370	1430	1880	1680	1780	2360	1790	2110
23	1610	1390	1500	1620	1340	1450	1860	1620	1760	1790	1670	1730
24	1610	1400	1520	1550	1390	1460	2070	1670	1820	1680	1610	1650
25	1520	1300	1380	1590	1430	1510	1840	1610	1750	1620	1600	1610
26	1830	1430	1560	1810	1420	1580	1970	1650	1790	1720	1580	1610
27	1680	1330	1470	1810	1570	1680	2010	1840	1920	1660	1610	1640
28	1550	1290	1420	1760	1600	1650	1880	1630	1760	1660	1600	1640
29	1400	1270	1320	1910	1490	1700	1830	1590	1680	1650	1610	1630
30	1480	1240	1370	2030	1680	1830	1780	1560	1680	1630	1590	1610
31	---	---	---	1950	1670	1830	1740	1560	1650	---	---	---
MONTH	1830	905	1280	2030	1180	1500	2070	1380	1680	2400	1470	1880

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.0	12.1	13.5	7.8	5.8	6.8	7.0	4.9	6.0	7.0	5.2	6.1
2	14.9	13.1	14.1	7.8	5.8	6.8	6.9	5.2	6.2	7.8	5.9	6.9
3	15.2	13.8	14.5	7.2	6.3	6.9	6.3	4.0	5.1	8.3	7.2	7.7
4	15.6	12.9	14.3	8.4	7.0	7.6	6.1	4.3	5.0	7.2	5.2	6.1
5	15.7	13.1	14.4	8.0	7.0	7.5	7.3	4.9	6.3	6.2	4.5	5.3
6	16.0	13.6	14.8	7.8	6.4	7.1	7.9	6.9	7.5	5.7	3.8	4.6
7	16.3	13.6	15.0	6.7	5.2	6.0	7.7	6.4	6.9	4.3	2.7	3.5
8	16.6	13.3	14.9	6.3	4.7	5.5	7.7	6.2	6.8	5.5	3.2	4.3
9	16.5	13.1	14.8	7.7	4.6	6.3	7.8	5.6	6.8	6.0	3.9	4.9
10	16.4	12.9	14.7	9.9	7.2	8.4	9.2	7.5	8.4	6.4	4.4	5.4
11	15.9	12.7	14.3	9.6	7.1	8.3	9.9	8.5	9.0	7.6	5.7	6.5
12	16.0	12.7	14.3	9.9	7.2	8.5	9.4	7.8	8.6	6.8	4.5	5.6
13	15.8	12.2	14.0	10.1	7.7	8.9	9.8	7.6	8.6	6.7	4.3	5.3
14	16.3	13.1	14.4	10.2	8.0	9.2	8.2	5.4	6.9	7.3	4.8	5.9
15	15.2	11.5	13.3	10.0	8.4	9.1	6.1	4.3	5.4	5.3	3.2	4.1
16	13.5	10.5	12.1	10.1	8.2	8.9	7.1	5.2	6.3	4.7	2.2	3.4
17	12.1	8.7	10.4	8.4	7.6	8.0	5.2	2.5	3.6	4.3	1.9	3.0
18	12.0	7.1	9.4	10.1	8.4	9.2	3.2	1.6	2.4	4.6	2.4	3.3
19	11.4	7.8	9.5	10.0	7.9	8.9	4.5	2.5	3.3	5.1	2.3	3.5
20	10.7	7.9	9.2	10.7	8.6	9.4	4.8	2.9	4.0	5.0	2.6	3.7
21	8.9	6.0	7.4	10.5	8.1	9.4	6.2	4.1	5.4	5.7	4.0	4.7
22	8.4	5.3	6.9	11.8	10.2	10.8	7.0	5.8	6.4	5.9	3.5	4.7
23	9.1	5.5	7.1	10.8	9.4	10.2	6.9	5.1	6.0	6.8	5.3	5.9
24	7.9	5.2	6.8	9.5	7.8	8.7	5.2	3.6	4.4	7.0	5.3	6.0
25	7.6	6.7	7.1	9.9	8.1	8.9	5.6	3.4	4.5	5.4	4.8	5.0
26	8.1	6.1	6.9	9.6	7.9	8.7	6.3	4.5	5.4	6.9	5.0	5.8
27	7.8	5.8	6.8	8.1	6.2	7.2	7.5	6.1	6.6	9.4	5.6	7.2
28	7.6	6.7	7.1	7.6	5.6	6.6	8.4	6.6	7.3	7.3	4.7	6.0
29	8.0	6.5	7.2	7.8	6.2	7.0	7.2	5.5	6.3	9.2	6.7	7.5
30	8.6	6.8	7.6	7.7	5.8	6.8	7.5	5.7	6.5	8.0	5.2	6.6
31	7.6	6.9	7.3	---	---	---	8.0	6.0	6.8	7.7	5.0	6.4
MONTH	16.6	5.2	11.1	11.8	4.6	8.1	9.9	1.6	6.1	9.4	1.9	5.3

09153290 REED WASH NEAR MACK, CO--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.5	5.4	6.8	8.0	3.1	5.1	9.6	6.2	7.4	14.6	9.5	11.8
2	8.4	5.8	7.1	7.5	3.1	5.0	9.6	5.1	7.4	14.8	6.7	10.5
3	8.3	5.6	6.9	8.6	3.2	5.5	13.7	6.9	9.9	16.2	7.4	11.4
4	8.8	6.0	7.0	8.0	4.6	5.9	12.6	8.9	10.4	17.4	9.1	12.9
5	8.2	5.8	7.0	8.1	2.4	4.8	9.8	6.5	7.9	18.3	10.2	14.0
6	7.6	5.3	6.8	8.9	2.6	5.2	12.7	5.1	8.0	18.7	11.8	15.0
7	6.9	3.6	5.0	9.5	2.7	5.7	13.1	5.6	8.8	20.1	13.1	16.1
8	6.9	3.4	4.9	10.7	4.6	7.1	13.0	6.7	9.7	19.8	12.0	15.4
9	7.2	3.3	5.0	10.7	4.3	7.2	11.3	8.6	10.0	19.8	11.5	15.1
10	6.3	3.3	4.8	11.0	3.8	7.0	10.4	7.6	9.0	18.8	11.8	14.9
11	7.6	3.4	5.2	11.5	4.3	7.5	9.3	6.7	7.9	19.4	11.3	15.1
12	6.9	4.1	5.5	12.3	5.2	8.2	8.1	4.9	6.5	19.8	12.1	15.4
13	8.0	4.2	5.9	11.8	5.1	7.9	9.0	5.1	6.8	19.8	11.4	15.1
14	7.4	3.2	5.1	10.5	4.1	7.1	10.7	6.5	8.4	19.2	11.9	15.2
15	8.7	4.3	6.1	11.7	5.4	8.4	12.6	8.5	10.4	20.5	12.3	15.9
16	8.5	3.9	6.1	13.4	6.8	9.7	13.6	9.9	11.7	19.9	12.3	15.9
17	9.4	5.2	7.2	10.7	6.8	8.7	14.7	10.6	12.5	20.4	13.0	16.2
18	9.9	6.4	7.7	12.9	5.1	8.5	15.5	11.3	13.4	20.9	13.3	16.6
19	8.8	4.2	6.3	13.7	5.5	9.1	15.2	12.2	13.8	21.6	13.0	16.9
20	7.7	5.2	6.1	14.0	6.2	9.6	15.6	12.4	13.9	18.3	13.6	15.7
21	8.0	3.4	5.2	13.4	7.1	10.0	14.0	12.4	13.2	16.7	13.5	15.1
22	7.6	2.9	5.0	13.6	6.8	10.1	15.8	11.1	13.1	16.7	13.3	14.7
23	6.5	4.3	5.3	14.6	7.4	10.5	13.6	10.6	11.6	17.9	11.8	14.6
24	7.5	3.2	5.0	10.7	6.4	8.8	13.0	9.2	11.0	14.7	11.9	13.3
25	7.8	2.5	4.8	12.2	4.0	7.7	14.3	8.4	11.1	14.6	10.6	11.9
26	8.1	2.8	5.2	13.4	4.7	8.5	14.2	9.7	11.8	15.2	9.5	12.3
27	6.5	5.0	5.8	14.0	5.8	9.2	15.8	8.9	12.2	16.8	11.2	13.8
28	7.8	4.8	5.9	13.6	6.0	9.5	17.0	11.3	14.0	15.7	12.0	13.8
29	---	---	---	14.2	7.6	10.2	16.0	11.8	13.6	16.3	13.3	14.6
30	---	---	---	14.2	5.8	9.4	16.0	9.2	12.3	18.4	13.5	15.7
31	---	---	---	13.2	6.7	9.3	---	---	---	19.8	14.4	16.8
MONTH	9.9	2.5	5.9	14.6	2.4	7.9	17.0	4.9	10.6	21.6	6.7	14.6

		JUNE			JULY			AUGUST			SEPTEMBER	
1	20.1	15.0	17.2	21.7	14.4	17.5	23.1	17.4	20.1	21.4	17.5	19.2
2	20.4	14.7	16.9	21.5	13.2	16.8	23.6	17.7	20.4	22.1	18.1	19.8
3	20.5	14.3	17.1	21.7	14.0	17.5	21.7	18.6	20.1	21.9	17.8	19.7
4	20.8	14.4	17.1	22.2	14.5	17.9	21.0	19.1	19.9	20.0	18.7	19.2
5	20.3	13.5	16.6	21.9	14.8	18.2	21.3	18.8	19.9	21.2	17.2	19.0
6	20.5	13.9	16.9	22.0	15.3	18.4	20.9	18.4	19.6	19.7	16.1	18.0
7	18.5	15.2	16.6	22.6	15.7	18.6	21.2	17.4	19.2	20.5	16.6	18.3
8	19.3	14.3	16.4	21.3	15.6	18.4	21.6	17.2	19.3	20.0	16.3	18.1
9	17.7	13.7	15.3	21.8	15.7	18.6	21.1	17.2	19.0	18.7	16.9	17.9
10	18.6	14.3	16.1	22.5	16.4	19.1	20.3	17.8	19.0	19.7	16.3	17.9
11	19.8	13.7	16.4	19.6	16.8	18.2	20.1	17.3	18.5	19.3	17.1	18.3
12	18.6	14.1	16.3	21.2	16.0	18.2	19.9	17.0	18.4	19.4	16.6	18.0
13	17.5	14.2	15.6	22.6	15.6	18.6	20.4	16.4	18.1	18.0	16.6	17.2
14	17.5	14.4	15.7	23.4	15.2	18.8	19.8	16.1	17.8	19.3	16.2	17.7
15	19.3	13.5	16.1	24.1	16.1	19.8	20.4	15.9	18.0	18.4	17.3	17.7
16	19.6	14.4	16.7	23.3	16.6	19.7	20.8	16.5	18.5	18.4	16.3	17.2
17	22.0	14.6	17.9	24.4	17.2	20.2	21.2	17.1	19.0	18.5	15.6	17.1
18	22.2	15.1	18.1	22.3	18.2	20.0	20.4	16.9	18.7	19.0	17.0	17.9
19	22.2	15.5	18.4	21.7	18.2	19.6	21.9	16.9	19.2	17.8	16.3	17.1
20	21.7	15.0	18.0	22.7	16.9	19.4	21.9	17.4	19.6	17.9	15.2	16.6
21	23.0	15.7	19.0	22.5	17.3	19.7	21.9	18.4	19.8	17.1	15.2	16.2
22	23.0	15.2	18.8	23.1	18.2	20.4	22.4	18.2	20.0	16.8	15.2	16.0
23	23.1	14.7	18.5	23.4	19.5	21.1	22.7	17.8	20.1	16.4	14.1	15.3
24	22.5	14.7	18.2	23.9	18.6	20.9	23.0	18.1	20.4	16.4	14.1	15.2
25	---	14.1	---	23.6	18.2	20.7	23.5	18.0	20.4	16.4	14.2	15.4
26	21.9	---	---	22.5	17.8	20.1	20.2	18.7	19.3	16.0	15.5	15.7
27	21.6	15.0	18.0	23.2	19.0	20.7	21.5	17.1	19.1	17.5	15.3	16.3
28	21.9	15.7	18.4	21.6	19.5	19.9	21.6	17.3	19.3	17.2	15.0	16.2
29	22.6	14.3	18.0	23.3	18.1	20.4	22.1	17.1	19.4	17.0	14.8	15.9
30	22.1	14.1	17.9	20.4	18.6	19.4	21.9	17.2	19.4	16.9	14.5	15.7
31	---	---	---	22.5	18.1	19.9	20.0	17.6	18.8	---	---	---
MONTH	---	---	---	24.4	13.2	19.2	23.6	15.9	19.3	22.1	14.1	17.3

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. Elevation of gage is 4,325 ft above sea level, from topographic map. May 1951 to October 1979, water-stage recorder at site 5.7 mi upstream at different datum. October 1979 to March 1995, water stage recorder at site 0.2 mi downstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power development, and diversions for irrigation. (Records include all return flow from irrigated areas).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4330	4950	4740	4310	4830	4720	9150	13500	28600	20000	7170	5810
2	4240	4880	4570	4260	4900	4570	9370	12900	33300	18800	7300	5980
3	4620	4690	4640	4400	4940	4230	9210	11400	36800	17300	7310	5860
4	5260	5130	4370	5250	4960	4100	9530	10700	36300	16100	7120	5740
5	5440	5090	4200	4690	4860	4340	10300	11500	36400	15300	7600	6070
6	4960	5110	4410	4340	4810	4500	9650	13900	36300	14700	8750	6430
7	4740	5110	4530	4080	4890	4830	8830	17000	35300	14000	8610	6780
8	4610	4960	4520	3930	4810	5110	8190	19400	34700	13200	8860	6890
9	4490	5100	4410	3980	4670	5380	8180	20000	36300	12300	8010	6740
10	4310	4820	4490	4260	4570	5690	8550	20300	36400	11500	7950	6490
11	4250	4810	4690	4390	4590	6010	8480	20400	34200	10900	8720	6450
12	4310	4850	4880	4470	4690	6370	7730	20900	33700	10600	9890	6260
13	4210	4730	4810	4450	4830	6880	7200	21400	32700	10000	9790	6490
14	4190	4720	4650	4590	4900	7050	7530	22000	32200	9660	9740	6270
15	4130	4770	4540	4420	4740	7210	7440	22400	30600	9090	9620	6290
16	4120	5020	4350	4400	4820	7440	7500	23000	29200	8530	8850	6790
17	4200	5110	4060	4260	4810	7770	7870	24400	27200	8030	7910	7050
18	4300	4920	3210	4440	4950	8070	9340	25300	25800	7770	7520	6860
19	4200	4830	3220	4460	5070	8210	10700	26300	25900	7970	7040	6770
20	4370	4870	3290	4680	4930	8410	11800	26800	27400	7860	6720	7830
21	4630	4890	3870	4850	4850	8820	12900	27600	29000	7740	6430	11300
22	4650	5070	4530	4860	4750	9000	13600	27900	28200	7330	6360	10500
23	4570	5710	4700	4950	4650	9140	13100	32500	27200	6860	6460	9120
24	4530	5890	4540	4890	4640	9550	12400	32400	26500	7290	6150	8150
25	4760	5280	4300	4870	4710	9800	11500	33400	25700	7160	6000	7650
26	5050	5090	4240	4820	4690	9240	10600	33000	25200	6620	6070	7430
27	5050	5000	4370	4930	4670	8640	10300	29400	23900	6150	6560	7530
28	4960	4900	4570	5240	4710	8810	10600	25500	22200	5970	6240	7990
29	5310	4720	4610	4980	---	9330	12600	23100	21400	6130	5920	7960
30	5340	4700	4480	4890	---	9430	13800	23100	20800	6420	5780	7740
31	5150	---	4350	4850	---	9210	---	26100	---	6640	5730	---
TOTAL	143280	149720	135140	142190	134240	221860	297950	697500	899400	317920	232180	215220
MEAN	4622	4991	4359	4587	4794	7157	9932	22500	29980	10260	7490	7174
MAX	5440	5890	4880	5250	5070	9800	13800	33400	36800	20000	9890	11300
MIN	4120	4690	3210	3930	4570	4100	7200	10700	20800	5970	5730	5740
AC-FT	284200	297000	268100	282000	266300	440100	591000	1383000	1784000	630600	460500	426900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1997, BY WATER YEAR (WY)

MEAN	3921	4009	3608	3384	3473	3929	6002	14420	17790	8047	3921	3660
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1951 - 1997	
ANNUAL TOTAL	2713680		3586600			
ANNUAL MEAN	7414		9826		6381	
HIGHEST ANNUAL MEAN					13470	1984
LOWEST ANNUAL MEAN					2559	1977
HIGHEST DAILY MEAN	[a]28500	May 18	36800	Jun 3	68300	May 27 1984
LOWEST DAILY MEAN	2580	Aug 16	3210	Dec 18	960	Sep 7 1956
ANNUAL SEVEN-DAY MINIMUM	2830	Aug 13	3790	Dec 16	1110	Sep 2 1956
INSTANTANEOUS PEAK FLOW			37500	Jun 10	[b]69800	May 27 1984
INSTANTANEOUS PEAK STAGE			13.08	Jun 10	[c]16.12	May 27 1984
ANNUAL RUNOFF (AC-FT)	5383000		7114000		4623000	
10 PERCENT EXCEEDS	17000		25400		14300	
50 PERCENT EXCEEDS	4870		6420		4000	
90 PERCENT EXCEEDS	3620		4380		2250	

a-Also occurred May 20.
b-At site 0.2 mi downstream, at present datum.
c-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 water temperature are good. Daily records of specific conductance are fair. Interruptions in data are due to instrument malfunctions. 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, maximum 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, 1,160 microsiemens Jan. 4; minimum, 320 microsiemens June 21.
WATER TEMPERATURE: Maximum, 23.0°C Aug. 2, 24; minimum, -0.3°C on several days in Dec. and Jan.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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												
31...	1206	5140	1130	8.3	7.0	10.0	360	96	30	91	2	3.8
NOV												
21...	1335	4930	1100	8.5	6.5	10.7	340	88	30	93	2	3.3
DEC												
24...	1427	4450	972	8.4	1.0	12.8	290	78	24	88	2	3.1
JAN												
30...	1300	5000	887	8.4	4.0	11.7	270	70	22	72	2	2.9
MAR												
06...	1350	4610	898	8.7	4.5	--	270	69	23	80	2	2.8
27...	1410	8280	550	8.2	8.5	10.0	180	49	15	41	1	2.3
APR												
23...	1320	13200	468	8.1	9.5	9.5	160	42	13	31	1	2.1
MAY												
13...	0940	21400	379	8.2	12.0	8.9	140	38	10	21	0.8	1.7
23...	1350	33200	372	7.9	12.0	9.3	130	36	10	20	0.8	1.8
JUN												
04...	1420	36900	301	7.8	14.0	8.8	110	32	8.0	14	0.6	1.6
JUL												
01...	1020	20000	384	8.0	15.5	8.5	130	38	9.4	23	0.9	1.8
24...	1015	7450	784	8.5	21.5	7.2	260	70	20	56	2	2.5
AUG												
05...	1310	7470	837	8.4	21.0	7.6	290	78	22	59	2	3.2
SEP												
03...	1045	5920	1000	8.4	21.0	7.3	350	96	27	74	2	3.3

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued

(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	BICAR-[a] BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-[b] BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA-[c] 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)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
OCT												
31...	188	--	154	300	81	0.4	11	714	709	0.97	9910	0.02
NOV												
21...	164	7	146	270	85	0.4	9.8	704	669	0.96	9370	0.02
DEC												
24...	165	4	141	210	88	0.4	10	611	589	0.83	7340	0.01
JAN												
30...	160	--	131	200	73	0.4	9.7	556	531	0.76	7510	0.02
MAR												
06...	132	6	120	190	82	0.3	7.3	551	526	0.75	6860	0.01
27...	117	--	96	110	36	0.4	11	347	324	0.47	7760	<0.01
APR												
23...	117	--	96	92	26	0.2	10	297	276	0.40	10600	<0.01
MAY												
13...	100	--	82	68	16	0.2	10	231	215	0.31	13300	<0.01
23...	105	--	86	74	12	0.2	10	233	217	0.32	20900	<0.01
JUN												
04...	98	--	80	53	11	0.1	9.8	194	178	0.26	19300	<0.01
JUL												
01...	95	--	78	76	19	0.2	9.1	242	223	0.33	13100	<0.01
24...	109	4	95	180	55	0.3	7.9	502	456	0.68	10100	0.01
AUG												
05...	148	1	123	210	53	0.4	10	557	511	0.76	11200	0.01
SEP												
03...	146	2	124	270	64	0.4	11	679	624	0.92	10900	0.02

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)	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)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
OCT												
31...	0.65	0.03	0.5	<0.2	0.12	0.02	<0.01	2.6	2.5	<3	7	5
NOV												
21...	0.50	0.02	0.4	<0.2	0.05	<0.01	<0.01	2.6	1.2	<3	11	4
DEC												
24...	0.56	0.02	0.2	<0.2	0.03	<0.01	<0.01	2.2	0.7	5	19	3
JAN												
30...	0.49	<0.015	0.5	<0.2	0.08	0.03	<0.01	2.4	1.4	<3	16	3
MAR												
06...	0.21	<0.015	0.3	<0.2	0.03	<0.01	<0.01	2.7	0.4	3	18	2
27...	0.34	0.06	0.6	0.2	0.19	<0.01	0.01	3.2	2.2	5	8	1
APR												
23...	0.33	0.09	1.1	0.3	0.35	<0.01	<0.01	3.8	5.2	9	5	1
MAY												
13...	0.22	0.02	1.0	0.2	0.38	<0.01	0.01	3.2	2.8	11	4	1
23...	0.24	0.02	0.9	<0.2	0.33	<0.01	0.01	4.8	6.9	10	12	1
JUN												
04...	0.17	0.02	0.6	<0.2	0.29	<0.01	0.01	4.4	4.6	12	5	<1
JUL												
01...	0.23	<0.015	0.3	<0.2	0.12	<0.01	0.01	3.3	1.3	9	3	1
24...	0.47	0.02	0.4	<0.2	0.14	0.01	0.01	3.5	1.9	<3	<1	3
AUG												
05...	0.61	<0.015	0.5	0.2	0.13	<0.01	0.02	3.4	1.7	3	3	5
SEP												
03...	0.68	<0.015	0.8	<0.2	0.20	<0.01	<0.01	3.1	>2.5	<3	2	6

a-Field dissolved bicarbonate, determined by incremental titration method.
b-Field dissolved carbonate, determined by incremental titration method.
c-Field total dissolved alkalinity, determined by incremental titration method.

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued

(National Water-Quality Assessment Program station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)[d]	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SAMPLER TYPE (CODE) (84164)[f]	MEDIUM CODE[g]
OCT							
31...	1206	5140	233	3230	--	3039	9
31...	1232	5140	322	4470	99	3009	9
NOV							
21...	1248	4930	158	2100	97	3009	9
21...	1335	4930	102	1360	--	3039	9
DEC							
24...	1403	4470	43	519	--	3009	9
24...	1427	4450	35	421	--	3039	9
JAN							
30...	1220	5000	72	972	--	3009	9
30...	1300	5000	66	891	--	3039	9
MAR							
06...	1350	4610	14	174	--	3039	9
06...	1510	4610	17	212	--	3009	9
27...	1330	8320	238	5350	88	3009	9
27...	1410	8280	197	4400	--	3039	9
APR							
23...	1255	13200	521	18600	78	3009	9
23...	1320	13200	576	20500	--	3039	9
MAY							
13...	0940	21400	601	34700	--	3039	9
13...	1015	21400	565	32600	77	3009	9
23...	1330	33200	1010	90500	69	3009	9
23...	1350	33200	1070	95900	--	3039	9
JUN							
04...	1340	36900	474	47200	68	3009	9
04...	1420	36900	404	40300	--	3039	9
04...	1421	36900	430	42800	--	3039	R
JUL							
01...	0930	20200	183	9980	65	3009	9
01...	1020	20000	164	8860	--	3039	9
24...	1015	7450	184	3700	--	3039	9
24...	1050	7450	184	3700	90	3009	9
AUG							
05...	1240	7470	165	3330	89	3009	9
05...	1310	7470	145	2920	--	3039	9
SEP							
03...	1020	5920	332	5310	97	3009	9
03...	1045	5920	369	5900	--	3039	9

d-Suspended-sediment concentrations associated with a sampler type coded 3039 were determined from a subsample split of a composite sample.
f-Code 3009 is a D-74 suspended-sediment sampler;Code 3039 is a D-77TM water-quality sampler.
g-A medium code of 9 is a regular sample; a code of R is a replicate sample.

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 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	1010	999	1010	1120	1070	1090	931	908	917	951	930	936
2	1030	1010	1020	1070	1060	1060	945	931	940	954	941	949
3	1030	1020	1020	1060	1050	1060	944	920	930	982	934	952
4	1040	1010	1030	1050	1030	1040	962	932	947	1160	901	958
5	1080	1010	1040	1030	998	1010	952	924	932	961	893	918
6	1090	1060	1080	1000	993	998	970	931	953	1000	961	985
7	1060	1050	1050	994	989	991	973	956	965	978	934	962
8	1050	1050	1050	994	987	990	978	957	970	1020	908	973
9	1060	1050	1060	1000	983	989	964	935	947	1010	979	997
10	1070	1060	1070	1000	994	999	950	936	942	1030	990	1010
11	1090	1080	1080	1010	1000	1010	956	948	952	1060	952	1020
12	1100	1090	1090	1010	1010	1010	960	950	954	966	935	952
13	1110	1100	1110	1010	995	1010	962	949	956	939	916	927
14	1120	1110	1110	1020	991	997	970	959	966	919	893	903
15	1130	1120	1120	1030	1010	1020	959	949	953	894	870	880
16	1140	1130	1130	1010	1010	1010	966	951	956	907	876	888
17	1140	1120	1130	1010	984	997	965	946	956	920	899	907
18	1120	1110	1120	1030	989	1010	991	946	966	907	859	878
19	1130	1110	1120	1030	1020	1030	1030	991	1010	879	818	855
20	1110	1100	1110	1040	1020	1030	1040	1030	1030	901	849	874
21	1110	1090	1100	1060	1040	1050	1070	1030	1050	897	876	887
22	1100	1090	1090	1060	1050	1050	1080	1060	1070	887	858	866
23	1090	1080	1090	1050	947	1020	1060	996	1030	860	851	856
24	1090	1080	1080	947	899	913	996	943	963	853	834	840
25	1100	1080	1090	904	885	894	960	935	944	851	830	838
26	1100	1070	1080	908	886	896	951	944	948	851	843	847
27	1070	1060	1070	894	886	889	953	936	946	856	835	841
28	1080	1070	1080	890	886	887	971	949	965	876	856	867
29	1080	1070	1070	904	888	898	949	922	931	868	841	849
30	1080	1060	1070	908	899	903	928	921	923	871	841	857
31	1110	1080	1090	---	---	---	935	924	931	875	852	865
MONTH	1140	999	1080	1120	885	992	1080	908	963	1160	818	908

	FEBRUARY			MARCH			APRIL			MAY		
1	872	850	856	847	828	836	557	528	536	446	436	440
2	875	856	864	842	823	831	579	531	546	459	434	446
3	876	856	863	857	833	841	593	574	586	486	459	474
4	862	846	853	894	857	876	602	587	595	503	486	495
5	852	832	838	906	886	896	593	581	584	502	478	495
6	834	819	824	886	851	865	626	587	613	478	427	461
7	830	817	824	851	812	829	623	607	616	431	392	416
8	823	796	808	866	797	819	618	601	608	394	374	386
9	810	789	801	804	754	779	624	599	614	383	372	378
10	809	776	792	754	719	736	656	620	632	379	370	374
11	827	789	806	736	704	720	662	640	650	384	369	377
12	835	803	821	711	679	698	653	643	648	382	372	378
13	837	812	826	691	656	676	663	642	653	376	367	371
14	836	806	819	680	658	668	670	651	661	373	360	367
15	819	792	802	658	614	641	671	655	664	375	356	366
16	800	775	783	648	627	638	664	653	658	366	353	358
17	812	795	803	646	623	635	658	617	630	356	346	353
18	817	797	807	643	633	637	622	552	578	353	345	350
19	835	803	816	646	617	634	552	527	534	348	338	344
20	839	802	818	617	573	588	530	481	519	341	337	338
21	842	823	834	587	561	570	486	466	477	350	337	341
22	827	807	815	577	544	562	485	457	471	350	342	347
23	828	808	819	568	561	565	472	455	464	378	349	364
24	829	803	816	566	553	558	479	455	467	369	359	363
25	842	815	827	555	526	537	520	476	502	365	353	358
26	848	827	837	554	526	541	544	520	535	429	365	385
27	864	810	827	583	546	556	553	532	542	461	429	446
28	846	827	833	578	546	560	562	536	553	458	447	452
29	---	---	---	591	547	578	536	467	517	477	458	468
30	---	---	---	547	526	533	468	436	456	482	464	476
31	---	---	---	557	530	539	---	---	---	464	413	435
MONTH	876	775	823	906	526	676	671	436	570	503	337	400

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 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	413	382	399	392	381	387	891	860	876	945	937	942
2	382	348	364	401	385	394	862	831	850	957	944	950
3	348	339	342	427	400	416	831	809	820	986	956	975
4	345	340	344	450	427	441	817	809	812	980	957	970
5	344	337	340	470	445	461	861	817	833	960	949	955
6	344	336	339	480	463	473	996	823	873	1030	957	980
7	344	337	340	495	473	486	906	783	816	1030	1000	1010
8	346	343	345	512	490	502	802	754	777	1050	1010	1030
9	367	345	350	535	506	525	763	750	755	1050	1020	1040
10	398	367	383	563	531	548	872	763	789	1030	1010	1020
11	403	390	398	587	559	574	773	750	757	1020	1010	1020
12	390	350	363	597	579	587	818	742	765	1040	1010	1030
13	354	349	352	618	593	608	754	710	720	1020	984	1000
14	353	349	351	632	616	624	711	705	708	1030	996	1010
15	359	353	356	653	632	642	720	705	713	1000	990	993
16	363	359	360	672	651	661	734	720	728	1020	978	998
17	372	362	369	698	670	683	754	734	744	1010	976	993
18	376	368	373	711	689	700	816	754	784	994	895	944
19	369	354	361	724	690	714	827	805	811	896	847	872
20	356	334	347	746	706	726	823	809	819	849	723	777
21	334	320	326	758	746	753	836	822	831	---	---	---
22	324	321	322	762	752	759	843	835	839	---	---	---
23	326	322	325	780	757	769	842	827	837	---	---	---
24	328	324	326	794	771	780	851	827	835	---	---	---
25	335	328	332	794	764	773	859	848	854	---	---	---
26	335	327	331	812	792	799	871	856	865	---	---	---
27	347	331	342	841	812	828	876	796	860	---	---	---
28	368	346	362	882	841	863	895	850	875	---	---	---
29	381	368	376	907	882	901	914	891	901	---	---	---
30	382	373	379	910	887	903	925	914	921	---	---	---
31	---	---	---	902	884	894	938	922	930	---	---	---
MONTH	413	320	353	910	381	651	996	705	816	---	---	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.6	13.6	14.5	7.4	6.2	6.8	3.3	2.5	2.8	2.6	2.1	2.4
2	15.6	14.5	15.0	7.3	6.1	6.8	2.7	2.1	2.5	3.1	2.2	2.6
3	15.8	14.6	15.1	6.9	6.5	6.8	2.1	1.3	1.7	3.4	2.9	3.1
4	15.5	14.1	14.9	8.0	6.8	7.3	1.4	.6	1.0	3.2	2.6	2.9
5	15.7	14.3	15.0	7.9	7.3	7.5	1.6	.8	1.2	2.6	1.8	2.2
6	16.3	14.5	15.3	7.9	6.9	7.4	1.8	1.4	1.6	1.8	1.0	1.4
7	16.7	14.9	15.8	7.1	5.7	6.2	2.2	1.4	1.8	1.0	-.3	.2
8	16.5	14.9	15.8	6.0	5.0	5.5	2.7	1.7	2.1	.7	-.3	.1
9	16.5	14.9	15.7	5.7	4.7	5.3	2.6	1.7	2.2	1.1	.2	.6
10	16.4	14.8	15.7	6.2	4.9	5.5	3.6	2.5	3.0	1.6	.6	1.1
11	16.4	14.7	15.5	6.4	5.1	5.7	4.6	3.6	4.1	2.3	1.4	1.8
12	16.2	14.6	15.4	6.5	5.3	5.9	5.1	4.2	4.6	2.1	1.0	1.8
13	15.9	14.4	15.2	6.4	5.6	6.0	5.8	4.8	5.2	1.7	.7	1.1
14	16.2	14.7	15.3	6.2	5.6	5.9	5.4	4.0	4.9	2.4	1.5	1.9
15	15.5	14.1	14.8	6.3	5.5	5.9	4.0	3.0	3.4	1.6	.7	1.1
16	14.7	12.7	13.7	5.9	5.1	5.5	3.0	1.8	2.6	1.1	.2	.6
17	12.7	10.9	11.5	5.4	4.3	4.8	1.8	-.3	.7	.7	-.3	.2
18	10.9	9.3	10.0	4.9	4.0	4.4	-.2	-.3	-.3	.7	-.3	.2
19	9.9	8.9	9.5	5.6	4.4	5.0	-.3	-.3	-.3	.8	-.3	.2
20	10.2	9.1	9.6	6.8	5.3	6.0	-.3	-.3	-.3	.9	-.1	.4
21	9.1	7.7	8.4	7.1	6.0	6.5	-.3	-.3	-.3	1.3	.3	.7
22	7.7	6.3	7.0	8.0	7.1	7.6	.3	-.3	.0	1.2	.4	.8
23	7.6	6.0	6.7	8.1	7.6	7.9	1.0	.2	.5	2.1	1.2	1.6
24	7.0	6.2	6.6	7.7	6.7	7.0	1.0	.5	.7	2.7	1.7	2.1
25	7.0	6.6	6.8	6.8	6.1	6.5	.9	.1	.6	2.0	1.4	1.7
26	7.2	6.0	6.6	6.5	6.0	6.2	1.0	.4	.7	2.0	1.4	1.7
27	7.1	6.3	6.7	6.1	5.0	5.5	1.8	1.0	1.3	3.2	1.9	2.4
28	6.8	6.6	6.7	5.1	4.1	4.5	2.5	1.8	2.2	3.2	2.9	3.0
29	7.4	6.2	6.8	4.1	3.4	3.8	2.5	2.0	2.2	4.1	3.0	3.5
30	7.9	6.8	7.3	3.8	2.9	3.3	2.5	2.0	2.2	3.9	2.8	3.3
31	7.5	6.8	7.2	---	---	---	2.8	2.0	2.4	3.8	2.8	3.3
MONTH	16.7	6.0	11.6	8.1	2.9	6.0	5.8	-.3	1.8	4.1	-.3	1.6

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued

(National Water-Quality Assessment Program station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	3.9	2.8	3.3	4.4	2.6	3.5	9.1	6.7	7.8	11.3	9.7	10.5
2	4.0	3.1	3.5	4.6	3.1	3.8	6.8	5.6	6.3	10.7	8.8	9.9
3	4.4	3.1	3.7	5.3	3.3	4.2	8.3	5.9	6.9	11.6	9.1	10.3
4	4.5	3.6	4.0	5.6	4.2	4.8	9.2	8.1	8.7	13.0	10.5	11.6
5	4.2	3.6	3.9	5.4	3.7	4.5	9.2	7.0	7.9	14.0	11.9	13.0
6	4.0	3.2	3.8	5.6	3.6	4.5	7.3	5.8	6.6	14.7	12.6	13.7
7	3.2	2.1	2.7	6.1	3.9	4.9	8.0	5.8	6.8	14.8	13.0	14.0
8	2.8	1.7	2.3	6.8	5.1	5.8	8.8	7.2	7.9	14.6	12.5	13.5
9	3.0	1.7	2.3	7.0	5.4	6.1	9.0	7.8	8.3	13.8	11.7	12.9
10	2.6	1.7	2.1	7.4	5.8	6.5	9.1	8.0	8.5	13.5	11.7	12.7
11	2.9	1.3	2.0	7.7	6.3	7.0	8.2	5.9	6.7	13.6	11.4	12.6
12	2.7	1.9	2.3	8.0	6.9	7.5	6.3	4.3	5.5	14.0	12.2	13.1
13	3.7	2.1	2.8	8.2	7.2	7.7	7.1	4.9	6.0	13.8	12.2	13.1
14	3.4	2.0	2.7	7.8	6.5	7.2	8.6	6.2	7.3	13.6	11.9	12.9
15	4.4	2.4	3.3	7.6	6.4	7.0	10.2	8.3	9.1	14.0	12.3	13.1
16	4.9	3.3	4.0	8.5	7.1	7.8	11.6	9.5	10.5	14.3	12.6	13.5
17	5.5	4.1	4.7	8.8	7.8	8.4	12.4	10.5	11.5	14.1	12.5	13.3
18	6.0	4.5	5.3	8.8	7.1	8.2	12.7	10.8	11.9	14.3	12.8	13.5
19	5.7	4.7	5.2	9.1	7.3	8.4	12.7	11.0	11.9	14.3	13.2	13.8
20	5.2	4.1	4.9	9.7	7.9	8.9	12.7	11.1	11.9	14.1	13.1	13.4
21	4.4	3.0	3.7	9.9	8.4	9.2	12.5	10.9	11.5	13.3	12.3	12.6
22	3.8	2.6	3.3	9.8	8.3	9.2	11.5	9.8	10.7	12.8	12.2	12.5
23	3.6	2.7	3.1	10.3	8.7	9.5	11.4	9.6	10.2	12.2	11.3	11.8
24	3.8	1.9	2.8	10.1	8.6	9.3	9.8	8.5	9.2	12.1	11.5	11.8
25	4.0	2.0	3.0	8.6	6.7	7.6	10.8	8.7	9.7	11.5	10.5	10.9
26	4.4	2.8	3.5	8.5	6.3	7.4	11.6	9.7	10.6	11.6	10.2	10.8
27	4.0	3.6	3.8	9.0	7.5	8.3	12.7	10.4	11.5	12.5	10.7	11.5
28	3.9	3.2	3.5	9.4	7.9	8.7	13.4	11.6	12.5	13.3	11.3	12.4
29	---	---	---	9.8	8.0	9.0	13.4	11.6	12.5	13.7	12.4	13.1
30	---	---	---	9.6	8.0	8.9	12.5	10.3	11.3	14.7	12.8	13.8
31	---	---	---	9.6	8.0	8.8	---	---	---	15.5	13.6	14.5
MONTH	6.0	1.3	3.4	10.3	2.6	7.2	13.4	4.3	9.3	15.5	8.8	12.6

	JUNE			JULY			AUGUST			SEPTEMBER		
1	15.7	14.3	15.1	17.1	15.7	16.4	22.9	21.1	22.0	21.1	19.0	20.0
2	15.6	14.5	15.0	16.9	15.6	16.4	23.0	21.4	22.3	21.9	19.6	20.7
3	14.8	13.4	13.9	17.5	15.6	16.5	22.5	21.1	21.7	22.1	20.7	21.4
4	14.8	13.6	14.2	18.1	16.0	17.0	21.6	21.0	21.3	21.8	20.8	21.2
5	14.9	13.7	14.4	18.5	16.2	17.4	21.9	20.7	21.2	21.4	19.6	20.6
6	15.0	13.9	14.5	18.5	16.6	17.6	21.7	20.7	21.1	21.0	19.5	20.4
7	14.8	14.0	14.3	18.8	16.7	17.8	21.4	19.7	20.7	20.1	18.4	19.3
8	14.2	13.4	13.8	18.5	16.6	17.6	21.3	19.7	20.6	19.8	18.5	19.3
9	13.4	12.3	12.7	18.7	16.7	17.8	21.0	19.9	20.6	19.7	19.2	19.5
10	13.8	12.5	13.2	19.0	16.9	18.0	21.0	19.9	20.5	20.4	18.5	19.4
11	14.6	12.9	13.7	19.0	17.8	18.4	20.6	19.0	19.6	20.2	19.1	19.6
12	14.7	13.7	14.3	18.8	17.3	18.0	19.5	18.3	18.9	19.8	18.3	19.0
13	14.7	13.8	14.2	19.5	17.3	18.4	19.0	17.6	18.5	19.6	18.3	18.9
14	14.7	13.6	14.2	20.2	18.0	19.1	19.4	17.7	18.6	19.7	17.9	18.7
15	14.8	13.5	14.1	20.6	18.8	19.8	19.5	18.2	19.0	19.4	18.6	19.0
16	15.2	14.0	14.6	21.2	19.7	20.5	20.0	18.5	19.4	18.6	17.9	18.2
17	15.9	14.1	15.0	21.8	20.0	20.9	20.2	19.0	19.7	18.4	17.4	18.0
18	16.0	14.8	15.5	21.7	20.7	21.1	20.6	19.4	20.1	19.1	18.0	18.5
19	16.5	15.0	15.8	21.0	19.7	20.3	21.5	19.9	20.6	18.7	17.8	18.1
20	16.5	15.5	16.1	21.0	18.8	19.8	21.9	20.3	21.2	18.2	16.6	17.7
21	16.6	15.3	16.0	21.6	19.6	20.7	22.2	20.7	21.4	---	---	---
22	16.6	15.5	16.1	22.3	21.1	21.7	22.7	20.9	21.7	---	---	---
23	16.7	15.5	16.2	22.7	21.4	22.1	22.5	20.9	21.7	---	---	---
24	16.6	15.6	16.2	22.7	21.0	21.9	23.0	21.1	22.1	---	---	---
25	17.0	15.6	16.3	22.5	21.3	21.9	22.7	21.0	21.9	---	---	---
26	16.9	15.6	16.2	22.2	21.1	21.7	22.1	20.7	21.2	---	---	---
27	16.8	15.4	16.1	22.9	21.0	21.8	21.5	19.7	20.5	---	---	---
28	17.2	15.8	16.5	22.5	20.9	21.8	21.3	19.3	20.3	---	---	---
29	17.5	16.2	16.9	22.4	20.2	21.3	21.9	19.7	20.9	---	---	---
30	17.3	15.7	16.6	22.2	20.5	21.1	22.1	20.5	21.3	---	---	---
31	---	---	---	22.4	20.1	21.1	21.3	20.0	20.4	---	---	---
MONTH	17.5	12.3	15.1	22.9	15.6	19.5	23.0	17.6	20.7	---	---	---

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	111	e85	e76	e75	e80	796	1390	3880	938	578	313
2	113	101	e80	e84	e85	e77	708	1220	4000	817	434	291
3	569	131	e80	e97	e85	e80	693	1240	3310	754	623	257
4	660	128	e80	e130	e82	e80	881	1550	3440	699	538	243
5	510	118	e80	e120	e80	e80	723	1960	3310	640	921	242
6	405	115	e87	e90	e75	e83	590	2460	3070	585	837	218
7	399	89	e89	e74	e74	e89	563	2790	2730	532	600	208
8	401	78	e95	e72	e73	e97	567	2650	2700	430	485	192
9	399	104	e104	e74	e76	e110	600	2460	2210	390	413	182
10	396	99	e111	e79	e79	e130	582	2260	2140	370	726	181
11	364	93	e112	e82	e82	e170	510	2180	2180	364	902	229
12	336	99	e111	e79	e84	e220	444	2500	2240	343	636	334
13	306	108	e104	e70	e88	e275	418	2990	2110	340	523	284
14	278	108	e86	e70	e83	e310	430	3370	1930	331	480	303
15	260	113	e77	e76	e80	e330	492	3480	1790	324	437	294
16	226	110	e67	e76	e77	e350	616	3590	1580	311	379	713
17	213	80	e64	e76	e81	e425	836	3910	1540	279	337	463
18	175	110	e66	e84	e81	e450	1030	3860	1650	263	312	376
19	169	123	e69	e86	e81	e485	1190	3570	1790	284	310	348
20	176	118	e80	e89	e81	e600	1420	3390	1850	398	285	338
21	138	114	e80	e89	e81	e880	1610	3790	1760	330	262	496
22	97	179	e80	e86	e80	973	1620	3760	1660	305	247	763
23	127	234	e80	e86	e80	1060	1580	3320	1580	364	278	604
24	125	166	e77	e85	e80	1080	1360	3090	1430	321	269	486
25	123	148	e77	e79	e80	824	1150	3130	1240	275	272	415
26	116	143	e79	e79	e80	736	1060	2910	1120	253	419	373
27	117	e120	e82	e79	e80	770	1130	2420	1010	268	396	380
28	153	95	e84	e79	e82	812	1470	2210	1010	403	309	305
29	165	e115	e78	e78	---	883	1530	2140	983	491	268	262
30	127	e96	e76	e75	---	810	1330	2520	983	616	261	239
31	125	---	e76	e74	---	836	---	3640	---	908	311	---
TOTAL	7882	3546	2596	2573	2245	14185	27929	85750	62226	13926	14048	10332
MEAN	254	118	83.7	83.0	80.2	458	931	2766	2074	449	453	344
MAX	660	234	112	130	88	1080	1620	3910	4000	938	921	763
MIN	97	78	64	70	73	77	418	1220	983	253	247	181
AC-FT	15630	7030	5150	5100	4450	28140	55400	170100	123400	27620	27860	20490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1896 - 1997, BY WATER YEAR (WY)

MEAN	135	84.2	58.9	52.6	56.8	129	752	1750	1389	415	237	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1896 - 1997	
ANNUAL TOTAL	99316		247238			
ANNUAL MEAN	271		677		438	
HIGHEST ANNUAL MEAN					790	1942
LOWEST ANNUAL MEAN					87.0	1977
HIGHEST DAILY MEAN	a2040	May 16	4000	Jun 2	6950	May 5 1922
LOWEST DAILY MEAN	e37	Jan 26	e64	Dec 17	8.0	Aug 16 1896
ANNUAL SEVEN-DAY MINIMUM	41	Jan 22	72	Dec 15	12	Aug 10 1896
INSTANTANEOUS PEAK FLOW			4840	Jun 2	b10000	Oct 5 1911
INSTANTANEOUS PEAK STAGE			5.96	Jun 2	10.20	Oct 5 1911
ANNUAL RUNOFF (AC-FT)	197000		490400		317200	
10 PERCENT EXCEEDS	548		2160		1410	
50 PERCENT EXCEEDS	118		305		121	
90 PERCENT EXCEEDS	48		79		40	

e-Estimated.
a-Also occurred May 17.
b-Site and datum then in use, from rating curve extended above 2800 ft^3/s.

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	2.2	e5.4	3.5	e5.0	e14	135	229	55	.09	.19	.83
2	.00	1.7	e4.4	3.4	e5.4	e16	117	170	46	.05	.11	.66
3	1.7	2.6	e3.5	e3.6	e5.6	16	119	138	26	.03	.12	.69
4	20	3.5	e3.3	e3.7	e5.2	e18	215	197	7.0	.02	.18	.78
5	11	3.3	e3.1	e3.8	e5.2	e18	154	233	5.0	.01	.39	.71
6	7.5	2.8	e3.3	e3.8	e5.0	18	124	245	4.2	.00	.10	.69
7	5.1	2.1	e3.5	e3.8	e4.2	21	105	250	4.1	.00	.07	.63
8	3.9	1.2	e3.5	e3.8	e4.4	25	112	194	21	.01	.04	.34
9	2.9	1.3	3.5	e3.8	e4.7	30	137	160	43	.05	.01	.09
10	2.7	1.9	4.1	e3.9	e5.1	35	135	189	44	.03	.04	.08
11	2.1	1.5	e4.6	e4.2	e5.4	30	94	128	9.7	.02	.02	.14
12	1.7	1.3	e4.9	e4.4	e5.6	48	72	125	4.0	.02	.00	.13
13	1.4	1.7	e4.8	e4.2	e5.9	72	63	157	3.2	.08	.00	.11
14	1.2	2.1	e4.6	e3.9	e5.7	103	60	179	2.7	.04	.00	.10
15	1.1	e2.1	e4.4	e3.7	e5.6	104	75	164	2.3	.01	.00	.15
16	1.1	e2.1	e3.7	e4.2	e6.1	106	106	135	2.2	.04	.01	.10
17	.91	1.4	e3.1	e4.3	e6.6	111	142	123	1.8	.07	.13	.07
18	.86	3.1	3.0	e4.3	e7.0	121	184	131	1.5	.03	.24	.05
19	.97	3.4	3.1	e4.5	e7.6	154	206	117	1.4	.02	.09	.07
20	1.2	3.7	e3.3	e4.8	e8.4	214	258	123	1.1	.02	.13	.16
21	1.2	3.6	e3.5	e5.0	e7.8	261	285	212	.98	.01	.05	.59
22	.99	6.2	e3.8	e5.0	e7.7	267	263	347	1.1	.07	.24	1.4
23	.50	9.7	e3.9	e5.0	e8.0	301	237	266	.89	.25	.55	1.5
24	.44	6.7	e3.8	e4.9	e8.6	269	174	195	.38	.19	.40	1.0
25	1.1	8.4	e3.4	e4.8	e10	150	131	248	.32	.11	.36	.72
26	1.9	8.0	e3.4	e4.6	e11	124	126	221	.24	.13	.68	.61
27	1.9	7.5	e3.5	e4.6	e12	139	141	144	.15	.45	.61	.60
28	4.6	5.4	e3.6	e4.7	13	153	242	103	.17	.63	.23	.48
29	5.3	6.3	e3.4	e4.7	---	178	279	58	.15	.63	.21	.27
30	3.5	e6.0	e3.6	e4.8	---	151	204	57	.10	.79	.28	.16
31	3.0	---	3.5	e4.9	---	158	---	65	---	.71	.50	---
TOTAL	91.77	112.8	116.5	132.6	191.8	3425	4695	5303	289.68	4.61	5.98	13.91
MEAN	2.96	3.76	3.76	4.28	6.85	110	157	171	9.66	.15	.19	.46
MAX	20	9.7	5.4	5.0	13	301	285	347	55	.79	.68	1.5
MIN	.00	1.2	3.0	3.4	4.2	14	60	57	.10	.00	.00	.05
AC-FT	182	224	231	263	380	6790	9310	10520	575	9.1	12	28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1997, BY WATER YEAR (WY)

MEAN	2.38	5.20	2.29	1.52	2.36	40.2	129	118	12.2	.24	.28	.99
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1984 - 1997	
ANNUAL TOTAL	1181.08		14382.65			
ANNUAL MEAN	3.23		39.4		25.9	
HIGHEST ANNUAL MEAN					49.9	1993
LOWEST ANNUAL MEAN					.43	1990
HIGHEST DAILY MEAN	81	Apr 28	347	May 22	555	Apr 2 1986
LOWEST DAILY MEAN	a.00	Jul 21	a.00	Oct 1	a.00	Jul 11 1984
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 21	.01	Aug 9	.00	Aug 30 1984
INSTANTANEOUS PEAK FLOW			549	May 22	744	Apr 2 1986
INSTANTANEOUS PEAK STAGE			6.45	May 22	7.23	Apr 2 1986
ANNUAL RUNOFF (AC-FT)	2340		28530		18760	
10 PERCENT EXCEEDS	5.3		155		96	
50 PERCENT EXCEEDS	1.5		3.8		.95	
90 PERCENT EXCEEDS	.00		.08		.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.--Not determined.

PERIOD OF RECORD.--May to August 1997 (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 March 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 CURRENT YEAR.--Maximum discharge during period of seasonal operation, 3,720 ft³/s at 1630 May 22, gage height, 10.17 ft; minimum daily, 112 ft³/s, July 25-26.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major flows occurred in October 1911, September 1970 and April 1973. Minimum flow not determined.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	e3100	2540	e320	142	---
2	---	---	---	---	---	---	---	e3000	2540	e195	127	---
3	---	---	---	---	---	---	---	e2950	2520	e190	123	---
4	---	---	---	---	---	---	---	e2900	2120	e180	125	---
5	---	---	---	---	---	---	---	e2900	1610	e165	158	---
6	---	---	---	---	---	---	---	e2900	1180	e140	152	---
7	---	---	---	---	---	---	---	e2660	1170	e135	136	---
8	---	---	---	---	---	---	---	2670	1210	e130	129	---
9	---	---	---	---	---	---	---	2840	1210	e125	127	---
10	---	---	---	---	---	---	---	2710	1210	e120	130	---
11	---	---	---	---	---	---	---	2640	1200	121	139	---
12	---	---	---	---	---	---	---	2630	1450	122	138	---
13	---	---	---	---	---	---	---	2610	1650	117	147	---
14	---	---	---	---	---	---	---	2620	1710	117	121	---
15	---	---	---	---	---	---	---	2780	1630	117	117	---
16	---	---	---	---	---	---	---	3010	1440	116	116	---
17	---	---	---	---	---	---	---	3200	1100	116	115	---
18	---	---	---	---	---	---	---	3420	959	114	115	---
19	---	---	---	---	---	---	---	3580	821	115	114	---
20	---	---	---	---	---	---	---	3570	774	116	114	---
21	---	---	---	---	---	---	---	3500	1220	116	114	---
22	---	---	---	---	---	---	---	3620	1480	119	114	---
23	---	---	---	---	---	---	---	3600	1220	115	113	---
24	---	---	---	---	---	---	---	3560	984	114	121	---
25	---	---	---	---	---	---	---	3580	783	112	116	---
26	---	---	---	---	---	---	---	3440	e690	112	128	---
27	---	---	---	---	---	---	---	3400	e530	115	123	---
28	---	---	---	---	---	---	---	3360	e470	120	119	---
29	---	---	---	---	---	---	---	2990	e420	129	117	---
30	---	---	---	---	---	---	---	2650	e380	121	120	---
31	---	---	---	---	---	---	---	2540	---	154	119	---
TOTAL	---	---	---	---	---	---	---	94930	38221	4198	3889	---
MEAN	---	---	---	---	---	---	---	3062	1274	135	125	---
MAX	---	---	---	---	---	---	---	3620	2540	320	158	---
MIN	---	---	---	---	---	---	---	2540	380	112	113	---
AC-FT	---	---	---	---	---	---	---	188300	75810	8330	7710	---

e-Estimated.

09169500 DOLORES RIVER AT BEDROCK, CO

LOCATION.--Lat 38°18'37", long 108°53'05", in NW1/4SW1/4 sec.20, T.47 N., R.18 W., Montrose County, Hydrologic Unit 14030002, on right bank at upstream side of bridge, 0.4 mi southeast of Bedrock, and 3.1 mi upstream from East Paradox Creek.

DRAINAGE AREA.--2,024 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	66	65	e70	72	74	773	2970	2570	310	175	134
2	49	60	63	e70	72	73	845	2940	2570	226	149	152
3	568	57	40	79	74	68	747	2880	2580	206	134	136
4	1700	59	53	85	75	64	1160	2850	2370	199	134	115
5	e370	57	47	e70	78	64	1410	2850	1920	174	177	183
6	e120	58	53	e72	78	65	897	2870	1380	150	172	154
7	e80	56	72	e72	78	59	708	2770	1160	145	170	120
8	e66	53	69	e72	76	61	663	2730	1220	139	142	122
9	e58	48	63	e72	68	71	691	2830	1220	136	134	122
10	e52	42	72	e74	60	78	747	2830	1380	134	180	148
11	e50	42	102	e76	66	97	738	2710	1230	133	239	123
12	e48	42	123	e82	70	130	639	2670	1270	131	146	110
13	e47	42	123	e84	74	188	541	2670	1600	129	219	99
14	e46	42	89	86	68	253	480	2660	1690	129	173	135
15	e46	43	77	63	65	300	542	2760	1690	129	136	308
16	e46	53	71	57	62	332	902	2890	1520	126	129	289
17	e46	55	e46	e66	66	388	1280	3140	1220	124	126	148
18	e46	70	e55	e74	79	452	1510	3280	1000	124	125	116
19	e46	61	e60	e74	106	563	1560	3480	884	124	125	99
20	e46	53	e62	e74	85	858	1650	3560	770	123	125	113
21	e45	55	e62	76	79	1260	1650	3510	915	122	123	307
22	e45	58	e62	e74	78	1360	1680	3610	1390	119	122	155
23	e45	63	e64	e74	74	1400	1860	3600	1340	125	122	125
24	e45	157	e64	73	71	1510	2220	3580	1030	120	126	102
25	44	161	e66	75	74	1140	2670	3620	861	116	140	93
26	44	102	e66	80	74	708	2760	3510	682	114	270	96
27	46	83	e68	76	71	663	2870	3400	545	116	238	101
28	69	70	e70	83	70	800	3060	3350	507	150	137	91
29	121	72	e70	82	---	948	3100	3120	436	132	131	88
30	95	65	e70	78	---	876	3050	2790	411	142	128	85
31	73	---	e70	76	---	690	---	2590	---	162	172	---
TOTAL	4250	1945	2137	2319	2063	15593	43403	95020	39361	4509	4819	4169
MEAN	137	64.8	68.9	74.8	73.7	503	1447	3065	1312	145	155	139
MAX	1700	161	123	86	106	1510	3100	3620	2580	310	270	308
MIN	44	42	40	57	60	59	480	2590	411	114	122	85
AC-FT	8430	3860	4240	4600	4090	30930	86090	188500	78070	8940	9560	8270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1997, BY WATER YEAR (WY)

MEAN	93.5	94.5	75.7	74.3	85.3	291	1016	1436	798	168	100	90.9
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1985 - 1997	
ANNUAL TOTAL	24095		219588			
ANNUAL MEAN	65.8		602		[a]361	
HIGHEST ANNUAL MEAN					724	1993
LOWEST ANNUAL MEAN					53.5	1990
HIGHEST DAILY MEAN	1700	Oct 4	3620	May 25	4690	May 5 1986
LOWEST DAILY MEAN	[e,b]37	Jan 25	40	Dec 3	[c]4.0	Jun 21 1990
ANNUAL SEVEN-DAY MINIMUM	38	Jan 22	43	Nov 9	8.6	Jun 15 1990
INSTANTANEOUS PEAK FLOW			3780	May 22	[d]5230	May 5 1986
INSTANTANEOUS PEAK STAGE			8.18	May 22	9.12	May 5 1986
ANNUAL RUNOFF (AC-FT)	47790		435600		261400	
10 PERCENT EXCEEDS	80		2620		1210	
50 PERCENT EXCEEDS	55		123		80	
90 PERCENT EXCEEDS	43		55		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-Also occurred Jan 26-28.
c-Minimum daily discharge for period of record, no flow, Sep 13, 1974, Aug 15-18, 1978.
d-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. 4-10, Mar. 15-22, Apr. 5-13, Apr. 20 to May 4, and June 5-14, 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, 2720 microsiemens Sept. 8; minimum recorded, 249 microsiemens Aug. 26.
WATER TEMPERATURE: Maximum recorded, 27.2°C July 24; minimum recorded, -0.2°C many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	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										
24...	0945	43	868	8.4	4.5	210	56	18	91	3
DEC										
10...	1250	73	1010	8.3	1.5	270	66	25	110	3
FEB										
24...	1415	96	1390	8.4	3.5	430	100	43	140	3
APR										
07...	1310	652	566	8.3	6.5	190	49	16	39	1
MAY										
06...	0945	2870	348	8.2	9.0	150	43	10	13	0.5
JUN										
05...	0620	2050	321	8.0	12.0	130	37	7.9	13	0.5
JUL										
22...	1235	117	513	8.4	25.0	140	40	8.9	52	2
28...	1450	129	450	8.2	23.0	120	35	7.8	40	2
AUG										
05...	1515	171	911	8.3	24.0	270	68	24	82	2
20...	0845	130	564	8.3	21.5	170	46	13	48	2
26...	1255	161	460	8.4	23.0	130	38	8.9	37	1
SEP										
03...	1315	135	525	8.3	23.0	160	46	12	39	1

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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...	4.0	141	120	110	0.2	2.7	486	0.66	55.8
DEC									
10...	3.7	138	210	120	0.2	3.8	621	0.85	122
FEB									
24...	4.1	159	440	100	0.2	4.2	927	1.26	239
APR									
07...	2.6	91	170	20	0.2	7.6	359	0.49	632
MAY									
06...	2.0	108	58	8.0	0.1	5.7	205	0.28	1590
JUN									
05...	1.6	102	42	10	<0.1	5.3	178	0.24	985
JUL									
22...	3.0	107	33	72	0.1	3.0	276	0.38	87.2
28...	2.8	104	26	59	0.1	2.1	234	0.32	81.6
AUG									
05...	3.7	110	250	62	0.2	3.5	559	0.76	258
20...	2.8	114	83	53	0.2	2.9	316	0.43	111
26...	2.9	106	41	51	0.1	2.6	245	0.33	108
SEP									
03...	2.8	107	85	43	0.1	3.5	296	0.40	108

09169500 DOLORES RIVER AT BEDROCK, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	661	614	640	691	658	684	1040	923	978	985	905	945
2	655	608	631	658	605	622	1000	916	958	1010	955	983
3	736	310	493	692	637	667	1060	1000	1030	1010	980	1000
4	2210	325	1330	1130	692	929	1140	1030	1100	980	825	903
5	1870	1800	1830	1130	810	960	1140	1070	1100	979	844	901
6	1800	1680	1740	1410	815	1190	1090	1030	1070	1200	979	1120
7	1680	1560	1630	1370	1050	1170	1150	980	1070	1100	894	988
8	1560	1490	1520	1050	914	982	1190	1090	1150	995	821	897
9	1490	1440	1460	914	859	879	1140	987	1080	1200	935	1110
10	1450	1420	1430	877	859	870	1160	897	1060	1860	1120	1470
11	1430	1400	1420	890	876	883	1110	874	990	1730	924	1330
12	1420	1380	1400	904	885	895	1140	879	1050	1150	888	1020
13	1410	1350	1360	903	878	887	1030	821	890	998	825	907
14	1350	1270	1290	960	903	930	1050	756	899	1090	845	974
15	1280	1210	1230	991	937	971	1350	1050	1130	1040	858	951
16	1220	1150	1180	952	911	926	1780	1020	1520	1070	874	992
17	1160	1120	1140	1080	950	1000	1190	754	953	1150	984	1060
18	1140	1130	1140	960	887	912	1350	1080	1160	1170	1030	1090
19	1140	1120	1130	982	935	960	1380	1300	1350	1100	1020	1070
20	1130	1100	1110	1000	953	982	1390	1230	1330	1150	1040	1100
21	1110	1010	1060	953	936	944	1230	1130	1180	1150	1050	1100
22	1010	933	963	961	938	949	1250	1130	1190	1110	1040	1070
23	933	891	910	1070	948	1010	1280	1240	1260	1150	1030	1100
24	904	834	870	1580	903	1130	1370	1200	1290	1090	1000	1030
25	835	805	826	1180	869	1000	1380	1240	1320	1000	936	975
26	805	788	798	1970	883	1290	1290	1220	1240	1000	952	982
27	800	787	795	1940	1130	1430	1330	1100	1250	1030	938	980
28	791	626	762	1130	1060	1100	1100	997	1030	1030	948	990
29	909	674	789	1110	1040	1060	1000	984	994	1080	994	1030
30	1170	685	930	1100	1040	1060	992	933	975	1090	1020	1050
31	700	670	687	---	---	---	994	908	948	1050	1020	1030
MONTH	2210	310	1110	1970	605	976	1780	754	1110	1860	821	1040

		FEBRUARY			MARCH			APRIL			MAY	
1	1140	1040	1100	1230	1090	1130	516	502	512	354	348	351
2	1150	1110	1140	1260	1060	1150	502	498	499	348	345	347
3	1170	944	1070	1280	1160	1200	500	486	496	347	342	345
4	1120	1030	1080	1280	1150	1210	487	449	469	343	330	337
5	1160	970	1070	1310	1140	1220	467	421	442	337	329	334
6	1150	997	1060	1340	1150	1240	529	466	497	343	332	337
7	1150	1000	1070	1320	1160	1240	572	529	547	347	336	342
8	1210	1050	1120	1370	1120	1240	595	490	527	348	336	342
9	1340	1010	1100	1290	1120	1210	657	564	593	346	329	338
10	1380	1150	1260	1260	1130	1160	660	599	620	375	326	337
11	1330	1080	1200	1230	1090	1160	663	612	633	366	344	353
12	1260	1050	1180	1210	992	1080	667	620	635	346	338	343
13	1220	1070	1160	1510	942	1180	689	653	676	342	329	338
14	1200	990	1130	1400	1020	1210	683	678	681	335	328	331
15	1170	977	1070	1490	957	1190	691	678	682	329	316	325
16	1220	950	1100	1290	878	1060	690	620	667	321	309	318
17	1320	1040	1170	1220	846	990	638	574	614	314	308	311
18	1330	1050	1190	1260	882	1020	593	547	574	313	306	310
19	1420	861	1160	1210	895	1010	557	538	549	309	301	306
20	1130	821	994	1050	763	833	539	---	---	342	299	303
21	1140	913	1030	789	707	752	---	473	---	312	297	303
22	1290	923	1110	819	685	745	490	458	480	335	302	314
23	1330	1030	1140	766	721	748	496	469	485	334	308	315
24	1460	1290	1370	721	685	706	489	394	463	321	314	319
25	1550	1390	1470	686	675	680	395	353	365	321	318	319
26	1480	1330	1380	676	611	643	377	369	374	321	318	320
27	1480	1140	1290	617	561	588	369	361	363	323	320	321
28	1350	1030	1190	570	559	566	361	354	356	322	318	321
29	---	---	---	559	526	547	356	351	354	319	315	317
30	---	---	---	526	519	522	353	350	351	317	315	316
31	---	---	---	523	500	518	---	---	---	317	314	315
MONTH	1550	821	1160	1510	500	960	---	---	---	375	297	327

09169500 DOLORES RIVER AT BEDROCK, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	317	313	315	450	411	427	544	416	452	619	564	598
2	317	315	316	507	449	474	562	478	532	564	369	477
3	317	314	315	554	505	525	531	502	518	571	490	527
4	315	298	307	639	553	594	641	515	603	622	514	544
5	313	299	308	675	638	660	966	641	810	1600	622	933
6	306	297	302	701	670	686	725	572	624	845	620	727
7	307	300	302	708	689	696	595	484	533	2590	604	1060
8	309	304	307	699	693	695	609	511	546	2720	1800	2360
9	313	308	310	694	678	686	1500	572	1020	1800	916	1330
10	311	306	308	679	663	670	1120	641	879	916	365	748
11	310	306	307	664	633	649	796	543	589	662	353	580
12	306	302	304	635	615	624	543	399	466	764	591	666
13	303	279	292	617	585	600	573	501	529	666	512	628
14	279	258	267	601	588	593	555	490	517	733	545	603
15	263	257	260	592	576	585	557	497	514	628	264	518
16	262	257	260	578	564	572	646	545	598	525	267	423
17	274	260	263	565	548	558	671	596	617	575	524	554
18	295	272	278	561	546	552	622	585	594	590	572	582
19	349	293	321	555	541	548	595	581	589	638	587	604
20	367	346	352	552	533	542	596	537	564	1370	634	690
21	367	354	363	537	522	531	537	522	530	1340	620	871
22	354	302	325	528	503	519	531	515	524	702	670	682
23	302	280	290	534	507	518	515	487	498	708	672	686
24	298	279	287	534	490	507	513	461	482	766	705	725
25	313	296	302	535	497	513	470	459	465	764	749	754
26	---	---	---	508	495	503	473	249	422	784	725	745
27	---	---	---	509	494	503	466	312	377	980	763	853
28	391	371	382	969	409	547	519	392	457	831	791	804
29	408	391	400	599	479	496	578	487	516	798	789	794
30	414	405	410	536	454	477	1460	497	956	791	734	762
31	---	---	---	539	445	465	1030	619	758	---	---	---
MONTH	---	---	---	969	409	565	1500	249	583	2720	264	761

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.8	12.4	14.6	7.8	4.0	5.8	1.5	-.2	.6	.6	-.2	.1
2	15.9	12.9	14.6	7.5	4.0	5.7	1.1	-.2	.2	1.7	-.2	.6
3	15.1	12.3	13.7	6.1	5.3	5.7	.8	-.2	.0	2.5	1.2	1.8
4	12.3	10.1	10.8	8.7	5.8	7.0	.6	-.2	.0	2.2	.3	1.1
5	13.2	9.5	11.2	7.7	6.2	7.1	.1	-.2	-.1	.8	-.2	.1
6	15.6	11.5	13.3	8.6	5.9	7.0	.6	-.2	.1	1.1	-.2	.1
7	17.0	12.3	14.4	6.6	3.7	5.2	1.1	-.2	.2	.3	-.2	-.1
8	17.0	12.5	14.7	6.0	2.5	4.3	1.1	-.2	.2	.9	-.2	.0
9	17.5	12.9	15.1	6.1	2.5	4.3	1.1	-.2	.2	.6	-.2	.0
10	17.6	13.2	15.3	6.2	2.6	4.4	2.2	.2	1.3	.6	-.2	.0
11	17.4	13.1	15.3	5.8	2.3	4.1	2.9	1.0	1.7	.6	-.2	.1
12	17.2	13.0	15.2	5.9	2.4	4.2	4.1	1.1	2.4	.6	-.2	.1
13	16.8	12.7	14.8	5.7	3.0	4.5	4.4	2.2	3.0	.8	.0	.4
14	17.0	13.7	15.2	5.0	3.6	4.4	3.2	.7	2.0	.8	-.2	.3
15	15.7	12.0	13.9	4.9	4.2	4.6	.7	-.2	.1	.7	-.2	.0
16	13.9	11.3	12.4	4.9	3.2	3.9	.8	-.2	.1	.7	-.2	.0
17	12.8	9.4	11.0	3.3	1.3	2.0	-.1	-.2	-.2	.5	-.2	.0
18	11.5	7.6	9.7	5.3	1.4	3.1	-.1	-.2	-.2	.4	-.2	-.1
19	10.7	8.6	9.9	5.2	2.7	3.9	.0	-.2	-.2	.6	-.2	.0
20	10.3	8.2	9.2	6.3	3.1	4.6	.1	-.2	-.1	.5	-.2	.0
21	8.2	5.4	6.6	6.0	3.5	4.9	.0	-.2	-.1	1.0	-.2	.1
22	7.0	2.8	4.9	6.9	5.8	6.3	.1	-.2	-.1	.8	-.2	.2
23	8.2	4.0	6.0	7.9	6.1	6.7	.0	-.2	-.2	1.3	-.2	.4
24	7.7	4.5	6.4	6.2	4.2	5.3	.1	-.2	-.2	2.4	-.2	.8
25	7.4	5.7	6.4	6.2	4.2	5.1	.2	-.2	-.1	1.2	-.1	.1
26	7.8	4.1	5.9	5.3	3.6	4.4	.1	-.2	-.1	1.5	-.1	.6
27	6.2	4.5	5.6	5.1	2.7	3.7	.1	-.2	-.1	3.5	.3	1.7
28	6.8	5.7	6.3	3.3	.6	2.1	.2	-.2	-.1	1.9	-.1	1.0
29	6.9	5.2	5.9	2.3	1.0	1.8	.3	-.2	-.1	3.7	.2	1.8
30	8.5	4.7	6.4	3.4	1.1	2.2	.4	-.2	.0	3.3	-.1	1.7
31	6.6	4.9	5.8	---	---	---	1.0	-.2	.2	3.8	.3	2.2
MONTH	17.6	2.8	10.7	8.7	.6	4.6	4.4	-.2	.3	3.8	-.2	.5

09169500 DOLORES RIVER AT BEDROCK, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.6	1.3	2.9	5.9	1.3	3.4	8.4	6.0	7.2	9.7	8.0	8.6
2	4.1	1.8	2.9	4.9	1.6	3.3	7.6	5.7	6.5	8.5	6.8	7.8
3	5.2	2.2	3.5	7.0	2.0	4.3	8.3	5.8	7.0	9.8	6.7	8.2
4	4.2	1.6	2.9	5.7	3.4	4.6	8.3	7.2	7.8	10.4	7.8	9.0
5	3.8	1.7	2.8	6.0	1.4	3.7	7.3	5.9	6.6	11.1	8.3	9.7
6	3.9	2.1	3.0	6.9	1.5	4.1	6.6	4.8	5.7	12.1	8.7	10.3
7	4.0	.5	2.1	8.3	2.8	5.5	7.6	4.7	5.9	11.9	9.1	10.6
8	3.2	-.1	1.5	8.7	3.9	6.3	7.6	5.5	6.6	10.8	9.4	10.0
9	3.6	-.1	1.6	9.7	4.6	7.1	8.3	6.3	7.3	9.9	7.9	9.0
10	3.0	.1	1.5	10.0	5.0	7.4	8.4	6.9	7.6	10.2	7.7	8.9
11	5.0	.9	2.7	10.9	5.3	8.0	7.9	6.2	7.0	11.1	8.9	10.0
12	4.1	1.3	2.8	11.5	6.0	8.7	7.7	4.9	6.2	12.1	9.3	10.6
13	4.7	1.0	2.7	10.7	6.6	8.7	8.9	4.8	6.6	11.9	9.5	10.8
14	4.3	.0	2.2	10.1	6.7	8.4	9.7	5.7	7.6	12.2	9.5	10.9
15	5.2	.8	2.9	9.9	6.7	8.4	10.9	7.6	9.1	12.0	9.8	11.0
16	5.2	1.4	3.4	9.4	7.0	8.3	12.2	8.0	10.0	12.3	9.7	10.9
17	4.8	2.9	3.9	9.2	7.7	8.4	12.0	9.0	10.4	11.7	9.8	10.6
18	7.0	3.3	4.9	10.3	6.5	8.4	10.9	9.6	10.1	12.3	9.4	10.7
19	7.0	2.7	4.7	10.8	7.3	9.0	10.8	9.6	10.1	11.3	9.9	10.6
20	4.6	2.5	3.5	10.7	7.5	9.0	10.6	9.4	9.9	10.7	9.4	10.0
21	5.1	1.0	2.9	9.3	7.8	8.5	10.7	9.5	10.1	10.5	8.9	9.7
22	4.4	.7	2.5	9.7	6.7	7.8	11.2	9.4	10.0	9.5	8.2	8.8
23	3.5	2.0	2.8	9.0	6.9	7.9	9.7	8.1	8.9	10.1	8.1	9.1
24	3.4	1.9	2.6	8.2	6.3	7.3	8.1	7.0	7.5	10.5	9.1	10.0
25	5.5	1.6	3.2	7.2	5.0	6.0	8.1	6.0	7.1	9.3	8.5	8.8
26	5.3	1.3	3.3	8.8	4.8	6.6	9.4	7.8	8.5	10.6	8.6	9.4
27	3.7	2.6	3.1	10.1	5.8	7.8	10.2	7.9	9.1	11.7	8.9	10.2
28	4.9	2.1	3.4	10.1	7.2	8.5	10.7	8.8	9.6	11.9	9.8	10.7
29	---	---	---	10.3	7.7	8.8	9.7	8.3	9.0	12.3	9.7	10.9
30	---	---	---	10.3	6.9	8.5	8.6	7.0	7.9	13.7	10.5	11.9
31	---	---	---	9.4	7.6	8.5	---	---	---	14.5	11.6	13.0
MONTH	7.0	-.1	2.9	11.5	1.3	7.1	12.2	4.7	8.1	14.5	6.7	10.0
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.8	11.8	13.3	21.7	17.7	19.7	26.8	22.2	24.3	23.8	19.7	21.5
2	14.4	12.2	13.2	21.7	17.5	19.8	26.0	22.6	24.3	23.7	20.7	22.2
3	13.8	11.1	12.6	23.3	18.3	20.7	26.1	23.7	24.5	24.7	20.8	22.7
4	14.3	11.5	13.0	24.0	19.1	21.5	24.4	23.0	23.6	23.4	21.5	22.4
5	14.2	11.8	13.0	23.5	19.7	21.6	24.6	21.1	23.0	22.6	19.7	21.3
6	14.9	12.7	13.7	24.4	19.4	21.8	24.1	21.4	22.8	21.8	20.3	21.0
7	15.4	13.6	14.3	24.4	20.4	22.2	24.4	20.4	22.3	23.1	18.7	20.6
8	13.8	12.5	13.2	24.9	20.8	22.6	25.1	21.0	22.9	22.7	19.5	21.1
9	12.8	11.5	12.1	24.2	20.3	22.3	23.5	21.5	22.5	23.1	20.4	21.5
10	13.8	11.9	12.8	24.9	20.5	22.5	23.0	21.1	22.0	23.2	18.6	21.3
11	16.6	10.8	13.8	23.0	21.1	22.0	23.1	20.2	21.5	21.7	16.9	19.3
12	16.9	14.1	15.4	23.8	19.4	21.4	21.6	19.2	20.5	22.3	18.6	20.1
13	15.5	14.3	14.7	25.0	20.0	22.2	22.2	19.4	20.7	21.3	17.5	19.3
14	14.3	12.7	13.5	26.1	20.5	23.1	22.6	18.9	20.7	22.2	17.9	19.8
15	14.8	12.5	13.4	26.8	21.4	23.8	23.2	19.6	21.3	20.5	17.7	19.5
16	15.4	13.0	14.0	26.8	21.9	24.2	24.1	20.9	22.3	20.3	16.9	18.5
17	17.5	14.5	15.6	27.1	22.4	24.6	24.0	20.4	22.1	20.4	17.7	19.1
18	18.7	15.2	16.9	25.4	23.1	24.3	24.7	20.7	22.5	21.8	18.3	19.8
19	19.6	15.9	17.6	25.5	22.2	23.7	25.0	21.0	23.0	19.8	18.3	18.9
20	20.5	15.8	18.2	25.4	21.4	23.3	25.8	21.3	23.5	21.0	17.5	19.1
21	20.3	17.1	18.7	26.2	21.8	23.8	24.2	21.4	22.8	19.2	15.9	17.0
22	18.9	15.9	17.1	26.2	22.9	24.4	25.8	21.7	23.6	18.4	15.5	16.9
23	17.2	15.3	16.1	27.0	22.8	24.6	27.0	22.5	24.4	19.3	15.7	17.5
24	18.9	15.0	16.8	27.2	22.6	24.5	26.1	22.6	24.2	20.0	15.5	17.5
25	19.7	15.2	17.3	26.5	22.4	24.3	25.2	22.0	23.6	19.2	15.6	17.4
26	---	15.8	---	24.7	22.0	23.4	23.6	19.6	22.4	18.5	17.5	17.8
27	20.4	---	---	26.1	21.7	23.6	23.8	19.7	21.7	20.7	16.7	18.3
28	21.3	17.6	19.4	24.4	21.3	22.6	24.0	20.1	22.0	20.4	16.3	18.3
29	22.1	18.2	20.1	23.7	20.6	22.1	23.8	21.0	22.3	20.0	15.8	17.9
30	21.6	18.1	20.0	22.4	21.5	21.9	23.5	20.3	21.7	20.2	15.8	17.9
31	---	---	---	25.1	20.7	22.5	21.5	20.0	20.8	---	---	---
MONTH	---	---	---	27.2	17.5	22.7	27.0	18.9	22.6	24.7	15.5	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 1996 TO SEPTEMBER 1997

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)	pH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	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)	SODIUM ADSORPTION RATIO (00931)
OCT									
24...	1305	868	8.3	6.0	410	85	49	22	0.5
DEC									
10...	1135	1110	8.3	5.5	550	110	68	30	0.6
FEB									
24...	1210	1120	8.4	4.0	600	120	73	33	0.6
APR									
07...	1105	603	8.1	4.0	280	56	33	16	0.4
MAY									
06...	1245	1330	8.2	16.5	700	140	86	39	0.6
JUN									
04...	0745	848	8.1	14.0	400	83	47	21	0.5
JUL									
22...	1105	675	8.2	19.5	330	73	36	19	0.4
28...	1325	663	8.1	19.5	300	69	32	17	0.4
AUG									
05...	1400	1230	8.2	20.5	610	130	69	39	0.7
20...	0705	1970	8.3	16.0	990	210	110	72	1
26...	1345	1280	8.2	19.0	650	150	67	36	0.6
SEP									
03...	1200	952	8.4	18.5	480	110	47	21	0.4

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY 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)
OCT								
24...	2.6	211	250	18	0.3	10	563	0.77
DEC								
10...	3.2	221	380	28	0.4	12	764	1.04
FEB								
24...	2.8	224	390	28	0.4	11	793	1.08
APR								
07...	2.7	125	170	14	0.2	10	377	0.51
MAY								
06...	3.7	221	510	34	0.4	9.8	949	1.29
JUN								
04...	2.2	151	270	19	0.2	9.3	543	0.74
JUL								
22...	2.9	156	180	17	0.2	6.7	424	0.58
28...	5.7	134	180	18	0.3	7.5	408	0.55
AUG								
05...	4.5	222	400	40	0.4	11	822	1.12
20...	5.5	270	780	73	0.6	11	1420	1.94
26...	5.4	227	440	37	0.4	12	886	1.21
SEP								
03...	3.7	189	300	19	0.3	9.8	625	0.85

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. 1, 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. 1, 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	60	67	67	74	85	740	2920	2560	344	177	133
2	62	55	66	68	74	84	837	2890	2600	256	146	146
3	430	53	48	71	81	79	737	2800	2580	223	131	134
4	1760	56	53	e70	81	75	1070	2860	2390	167	130	118
5	406	55	48	e70	84	76	1430	2840	1920	150	158	165
6	158	55	61	e70	79	78	925	2840	1400	145	176	170
7	88	54	65	e70	79	71	718	2750	1160	142	176	120
8	65	52	72	e70	80	72	698	2680	1240	138	142	125
9	55	49	68	69	73	81	693	2750	1250	135	132	108
10	50	45	73	72	66	90	745	2790	1370	134	146	118
11	47	44	101	e70	69	102	717	2600	1310	132	267	145
12	44	44	114	e72	71	126	621	2530	1280	129	148	116
13	42	44	121	e80	76	185	532	2500	1590	130	210	94
14	41	45	95	90	72	243	479	2520	1690	127	182	131
15	39	46	79	64	72	285	581	2680	1710	124	138	212
16	40	54	72	50	66	316	919	2850	1550	124	128	389
17	39	54	43	63	69	363	1260	3150	1300	122	124	149
18	38	68	57	72	80	411	1450	3370	1050	121	123	119
19	39	64	58	74	103	513	1470	3650	922	122	122	99
20	39	57	e60	e72	92	771	1560	3730	791	121	122	105
21	37	57	e60	e72	87	1160	1530	3710	889	121	120	320
22	39	61	61	e72	86	1310	1580	3830	1390	122	119	161
23	41	64	e62	e72	81	1340	1760	3830	1410	124	119	129
24	41	124	e62	e72	80	1450	2170	3700	1100	125	122	106
25	40	151	e62	73	82	1170	2580	3910	916	119	127	94
26	40	104	e64	81	81	705	2690	3770	726	115	228	97
27	40	84	e64	81	82	644	2870	3610	564	116	284	103
28	55	72	e64	87	81	769	2980	3500	521	148	139	94
29	94	71	e64	82	---	903	3070	3340	447	127	130	91
30	89	71	e67	80	---	888	2950	2920	421	142	126	87
31	63	---	70	77	---	672	---	2680	---	158	168	---
TOTAL	4120	1913	2121	2253	2201	15117	42362	96500	40047	4503	4760	4178
MEAN	133	63.8	68.4	72.7	78.6	488	1412	3113	1335	145	154	139
MAX	1760	151	121	90	103	1450	3070	3910	2600	344	284	389
MIN	37	44	43	50	66	71	479	2500	421	115	119	87
AC-FT	8170	3790	4210	4470	4370	29980	84030	191400	79430	8930	9440	8290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1997, BY WATER YEAR (WY)

MEAN	100	103	80.8	81.5	96.6	302	1044	1441	805	176	106	98.7
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1985 - 1997	
ANNUAL TOTAL	25156		220075			
ANNUAL MEAN	68.7		603		[a]370	
HIGHEST ANNUAL MEAN					711	1993
LOWEST ANNUAL MEAN					55.3	1990
HIGHEST DAILY MEAN	1760	Oct 4	3910	May 25	4550	May 6 1986
LOWEST DAILY MEAN	37	Oct 21	37	Oct 21	[b]7.1	Jun 21 1990
ANNUAL SEVEN-DAY MINIMUM	39	Oct 15	39	Oct 15	10	Jun 16 1990
INSTANTANEOUS PEAK FLOW			4120	May 25	[c]5260	May 6 1986
INSTANTANEOUS PEAK STAGE			9.58	May 25	10.82	May 6 1986
ANNUAL RUNOFF (AC-FT)	49900		436500		268000	
10 PERCENT EXCEEDS	87		2570		1250	
50 PERCENT EXCEEDS	57		122		87	
90 PERCENT EXCEEDS	46		55		43	

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 excellent, May 7-19, May 24 to June 3, June 15 to Aug. 6, 13-18, Aug. 21 to Sept. 1, Sept. 4-15, and Sept. 25-30; good, Oct. 19-30, Jan. 7 to Apr. 4, May 5, June 4-5, and Aug. 19-20; fair, Oct. 10-18, Nov. 1 to Dec. 29, June 6-14, Sept. 2-3, 16-24; poor, Oct. 1-9, Dec. 30 to Jan. 6, Apr. 9 to May 4, and May 20-23 . Daily water temperature record is good. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 57,700 microsiemens, June 22, 1990 (may have been higher June 19-22 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 22,600 microsiemens, Dec. 17; minimum recorded, 260 microsiemens, May 20.
WATER TEMPERATURE: Maximum, 29.3°C, July 15; minimum, -0.9°C, Dec. 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	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										
24...	1505	42	3350	8.3	8.5	290	69	29	550	14
DEC										
10...	1455	75	5480	8.1	4.5	430	90	51	990	21
FEB										
25...	0920	82	4100	8.3	2.0	500	110	55	670	13
APR										
08...	0845	652	728	8.2	5.5	220	57	20	62	2
MAY										
06...	1415	2830	353	8.2	10.5	150	44	10	14	0.5
JUN										
04...	1120	2450	312	8.2	12.5	120	37	7.7	12	0.5
JUL										
22...	0820	125	1900	8.3	21.5	180	47	15	300	10
28...	1125	180	1060	8.3	23.0	130	37	10	150	6
AUG										
05...	1220	145	1530	8.4	23.5	220	56	19	210	6
20...	1155	123	1470	8.2	23.5	190	49	16	210	6
26...	1515	165	938	8.3	23.0	140	38	10	120	4
SEP										
03...	1530	131	1290	8.4	26.0	190	52	15	160	5

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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...	27	150	170	810	0.2	3.0	1750	2.38	198
DEC									
10...	46	155	330	1600	0.2	4.3	3200	4.36	651
FEB									
25...	31	166	480	1000	0.2	4.3	2450	3.33	540
APR									
08...	3.7	101	200	52	0.1	7.7	463	0.63	804
MAY									
06...	2.1	108	58	10	0.1	5.7	209	0.28	1600
JUN									
04...	1.7	100	40	11	<0.1	5.3	174	0.24	1150
JUL									
22...	14	115	58	480	0.1	3.2	988	1.34	333
28...	8.1	110	36	230	0.1	2.7	546	0.74	265
AUG									
05...	11	113	150	300	0.1	3.6	816	1.11	320
20...	10	115	100	310	0.1	3.2	766	1.04	254
26...	7.8	103	48	190	0.1	2.6	476	0.65	212
SEP									
03...	10	110	120	250	0.1	3.7	676	0.92	239

09171100 DOLORES RIVER NEAR BEDROCK, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	2620	2460	2520	2760	2190	2440	5480	4080	4570	3790	2810	3150
2	2730	2410	2490	3090	2740	2870	5300	3780	4310	3410	2860	3130
3	2530	641	1270	3450	3080	3300	12400	4260	6880	3630	2800	3370
4	2650	449	1500	3550	3230	3360	12100	3960	6150	2800	2250	2450
5	2380	2040	2190	4010	3550	3840	13300	4430	7090	2700	2130	2350
6	2100	2040	2070	3950	3540	3710	6250	4160	4890	3140	2260	2570
7	2360	2100	2210	4140	3830	3980	5810	3000	4440	9390	2350	4410
8	2720	2360	2510	4210	3870	4010	6280	3110	4140	6170	2300	4090
9	2980	2710	2830	4900	4080	4340	8440	3110	4650	9280	3120	5020
10	3160	2890	2990	5290	4890	5040	5780	2780	4440	7480	2910	5230
11	3350	3120	3210	5160	4640	4880	3010	2210	2600	6900	3100	4240
12	3350	3230	3280	4950	4580	4770	2570	1840	2240	4800	2360	3530
13	3390	3220	3280	4900	4680	4760	2300	1690	2020	3530	2530	3020
14	3390	3270	3320	5010	4870	4920	3100	2300	2590	3980	2830	3430
15	3500	3310	3400	5430	4990	5180	5220	3070	3550	12800	3140	5880
16	3510	3290	3420	5410	3880	4410	5840	3080	4490	19600	4080	7690
17	3370	3150	3240	4190	3850	4050	22600	3880	8060	11300	3000	6340
18	3610	3220	3380	3850	3100	3330	12000	4670	7200	7550	3490	5280
19	3740	3480	3570	4100	3320	3630	11200	5060	8470	8890	3160	5510
20	3670	3400	3460	4670	4100	4490	6470	4110	5410	4860	3140	3970
21	3530	3320	3390	4660	4230	4470	5830	4120	5060	4470	3370	3910
22	3500	3150	3320	4630	4130	4390	6500	5160	5730	5800	2460	3920
23	3480	3310	3390	4520	3970	4210	6630	3110	5180	4750	3620	4100
24	3540	3230	3340	4070	1420	2850	3330	2360	3000	4590	3220	3760
25	3730	3510	3600	1830	1330	1540	4050	2890	3220	5150	3490	4250
26	3650	3230	3360	2700	1540	2010	4030	3020	3410	4680	2970	3680
27	3300	3220	3260	3270	2700	3150	3740	2950	3290	4960	3350	3970
28	3230	2280	2980	3820	3180	3440	3700	3120	3360	4190	3000	3470
29	2280	1370	1700	4490	3690	3950	3390	2420	3060	3940	3120	3660
30	2290	1300	1770	4720	3580	4050	3410	2880	3100	4290	3380	3840
31	2470	2220	2340	---	---	---	3340	2700	3020	4580	3590	3990
MONTH	3740	449	2860	5430	1330	3850	22600	1690	4500	19600	2130	4100
		FEBRUARY			MARCH			APRIL			MAY	
1	5050	3870	4470	3950	3420	3640	458	424	444	365	352	358
2	5310	3920	4470	3850	3430	3700	440	424	432	370	355	364
3	4110	3580	3840	5270	3440	4290	488	432	461	365	344	352
4	4500	3560	3920	5360	3450	4390	496	453	482	350	337	344
5	4250	3680	4010	5300	3340	4160	---	---	---	349	335	343
6	5510	3590	4480	4550	3570	4070	---	---	---	357	340	349
7	5380	3480	4110	5620	4200	4610	---	---	---	363	348	357
8	4770	3550	4090	5630	3990	4720	---	---	---	360	337	351
9	5610	3740	4610	5300	3500	3930	830	720	779	343	323	335
10	7210	4110	5370	3870	3030	3430	867	756	797	363	321	330
11	6760	3950	5170	3450	2730	3000	831	748	774	354	330	342
12	6490	3780	4830	2970	1940	2370	817	770	791	338	328	334
13	5380	3430	4260	1950	1420	1660	951	817	887	333	319	327
14	5480	3400	4140	1800	1330	1530	999	873	928	323	316	319
15	4930	3590	4080	1640	1410	1500	945	798	872	318	299	311
16	6630	3680	4690	1580	1320	1420	798	557	661	306	290	300
17	6400	3600	4840	1400	1180	1240	580	474	514	293	276	282
18	4960	3130	4050	1260	1040	1130	474	425	443	281	272	277
19	3870	2190	2920	1160	920	1050	438	415	428	273	262	268
20	3370	2760	3080	975	717	881	443	432	437	265	260	262
21	3750	2880	3230	722	604	656	437	380	406	290	265	278
22	4090	2820	3410	631	446	578	403	375	388	321	289	303
23	4330	3120	3930	462	393	433	396	384	390	337	321	330
24	5160	3180	4050	433	375	412	387	375	382	341	319	331
25	4690	3390	4040	422	353	396	379	365	372	334	314	322
26	4440	3780	4060	461	421	440	371	361	366	337	319	329
27	4350	4100	4220	504	461	486	362	343	348	338	317	327
28	4620	3950	4300	495	449	474	350	340	345	320	312	315
29	---	---	---	465	409	439	358	342	349	317	311	314
30	---	---	---	414	387	404	364	348	357	323	313	318
31	---	---	---	456	405	435	---	---	---	323	319	321
MONTH	7210	2190	4170	5630	353	2000	---	---	---	370	260	322

09171100 DOLORES RIVER NEAR BEDROCK, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	329	320	323	1290	871	1040	1290	877	1090	1270	1240	1250
2	323	316	320	1660	1290	1560	1400	1230	1320	1270	1000	1150
3	322	313	317	2080	1620	1750	1610	1340	1470	1330	1040	1210
4	321	313	317	2540	2080	2420	1620	1520	1560	1640	1240	1480
5	342	316	328	2740	2540	2660	1680	1270	1540	1790	1190	1540
6	393	342	369	2750	2600	2670	1440	1070	1310	1420	932	1160
7	406	392	399	2750	2610	2690	1300	1040	1150	1460	1400	1430
8	400	378	387	2730	2610	2680	1490	1230	1380	2710	1460	2350
9	393	382	385	2700	2600	2660	2240	1490	1670	2690	2280	2590
10	398	328	390	2660	2520	2580	2240	1290	1850	2280	1670	1990
11	366	307	340	2610	2480	2550	1290	783	950	1670	1180	1340
12	368	359	364	2550	2410	2490	1300	1110	1210	1590	1350	1440
13	359	332	343	2540	2260	2340	1340	767	1020	1730	1580	1670
14	332	326	329	2430	2270	2340	1280	858	1040	1580	1260	1330
15	330	318	324	2370	2290	2340	1350	1040	1260	1300	935	1200
16	329	318	323	2330	2230	2290	1510	1350	1460	935	539	714
17	373	326	345	2310	2210	2270	1530	1450	1490	1220	808	1030
18	424	373	402	2280	2180	2230	1540	1400	1460	1620	1060	1380
19	474	423	448	2200	2100	2160	1470	1420	1440	1830	1620	1730
20	544	474	512	2150	2060	2110	1560	1450	1500	1880	1690	1770
21	534	415	491	2070	2000	2030	1530	1490	1510	1740	692	1040
22	415	318	354	2110	1870	2010	1520	1470	1490	1310	811	1030
23	321	314	317	2050	1920	1990	1500	1440	1480	1790	1310	1510
24	370	321	346	2020	1660	1890	1470	1310	1400	2240	1790	2010
25	431	370	395	2070	1950	2010	1430	1210	1310	2400	2240	2320
26	560	431	486	2050	1970	2020	1260	534	944	2420	2120	2300
27	703	560	645	2020	1930	1980	826	505	601	2510	2140	2310
28	757	694	712	1970	1050	1460	1130	826	1010	2410	2180	2280
29	840	757	821	2020	1570	1710	1240	1130	1180	2370	2240	2300
30	871	831	846	1590	1290	1430	1580	1240	1310	2380	2210	2290
31	---	---	---	1500	1050	1280	1600	1180	1390	---	---	---
MONTH	871	307	423	2750	871	2120	2240	505	1320	2710	539	1640

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	20.0	10.6	15.0	9.3	3.0	5.9	3.3	-.3	1.0	1.9	-.2	.5
2	18.4	11.8	14.9	9.7	3.1	6.2	2.5	-.3	.6	3.4	-.2	1.3
3	14.9	13.2	13.8	6.7	4.8	5.9	.7	-.4	.0	3.8	2.1	2.9
4	13.2	10.5	11.5	9.9	5.6	7.3	1.0	-.3	.0	4.2	.3	2.0
5	14.5	9.4	11.7	9.2	5.3	7.1	.6	-.4	-.1	1.3	-.2	.4
6	17.4	10.7	13.7	9.4	4.7	6.8	2.2	.0	.9	1.4	-.2	.2
7	18.4	11.3	14.5	8.3	2.4	5.1	2.9	-.3	.7	-.2	-.4	-.2
8	19.1	11.5	15.0	8.1	1.7	4.6	2.8	-.2	.7	-.1	-.3	-.2
9	19.5	11.6	15.3	8.3	1.7	4.7	2.7	-.2	.8	.6	-.3	-.1
10	19.8	11.8	15.6	8.4	1.7	4.8	4.5	1.0	2.6	1.3	-.3	.1
11	19.3	11.7	15.4	8.2	1.4	4.6	6.3	2.3	3.6	1.8	-.4	.5
12	18.9	11.6	15.2	8.1	1.6	4.6	4.6	.7	2.5	2.3	-.2	1.0
13	18.7	11.1	14.8	7.4	2.5	4.9	5.3	1.2	3.0	2.0	.6	1.1
14	18.4	13.0	15.3	5.3	2.7	4.2	3.7	.1	2.0	1.9	-.2	.7
15	17.4	10.3	13.9	4.9	3.7	4.4	1.9	-.2	.4	2.1	-.3	.3
16	14.7	9.7	12.1	6.3	2.8	4.2	1.8	-.3	.5	.3	-.6	-.2
17	13.6	7.4	10.3	2.9	.9	1.6	-.2	-.9	-.3	.1	-.4	-.2
18	13.6	5.7	9.6	6.7	1.5	3.6	-.2	-.5	-.3	-.2	-.3	-.2
19	12.0	7.8	10.0	6.7	2.5	4.2	-.3	-.5	-.4	1.0	-.4	-.1
20	10.7	6.8	8.9	8.6	2.8	5.2	-.2	-.3	-.3	.7	-.2	.0
21	8.9	3.8	6.2	7.8	2.9	5.4	-.2	-.3	-.3	2.9	-.2	.8
22	9.5	1.8	5.5	7.6	6.0	6.7	-.3	-.3	-.3	2.3	-.2	.7
23	10.8	3.1	6.6	8.9	5.6	6.9	-.2	-.3	-.3	2.3	.2	1.4
24	9.3	3.1	6.4	7.3	3.3	5.2	-.2	-.2	-.2	4.2	.0	1.7
25	7.8	5.4	6.5	7.4	3.3	5.1	-.2	-.2	-.2	1.5	-.2	.1
26	9.8	3.1	6.1	6.2	3.0	4.4	-.2	-.2	-.2	2.7	.1	1.2
27	7.4	4.1	5.9	5.9	1.9	3.7	.5	-.2	.0	6.1	.8	2.8
28	6.9	5.7	6.3	4.8	.3	2.3	2.4	-.2	.8	3.9	.2	1.9
29	7.6	4.8	6.0	3.3	1.3	2.1	1.4	-.2	.3	6.2	.7	3.0
30	9.8	4.1	6.5	4.5	.7	2.3	2.1	-.3	.6	5.5	.0	2.5
31	8.1	4.6	6.0	---	---	---	4.4	-.2	1.6	6.2	.3	2.9
MONTH	20.0	1.8	10.8	9.9	.3	4.8	6.3	-.9	.6	6.2	-.6	.9

09171100 DOLORES RIVER NEAR BEDROCK, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.0	1.0	3.6	8.6	1.1	4.5	8.5	5.8	7.2	9.9	8.0	8.8
2	6.7	1.7	3.8	7.4	1.4	4.0	7.9	5.4	6.6	9.1	6.9	8.1
3	6.8	1.6	4.0	9.4	1.1	4.8	9.0	5.9	7.4	10.0	6.7	8.4
4	6.4	.7	3.2	7.2	2.6	4.5	8.4	7.4	7.9	10.6	7.9	9.3
5	5.3	1.6	3.2	9.3	.5	4.4	9.4	6.0	6.9	11.3	8.4	10.0
6	5.6	1.3	3.2	9.6	.5	4.7	7.6	4.5	5.9	12.1	8.8	10.5
7	6.1	.0	2.6	11.2	1.4	5.9	8.1	4.4	6.1	12.2	9.6	11.0
8	5.8	-.3	2.2	11.1	2.4	6.5	8.2	5.5	6.9	11.5	9.5	10.4
9	6.4	-.3	2.5	12.7	3.3	7.5	8.8	6.4	7.5	10.2	8.2	9.4
10	5.2	-.3	2.1	13.0	3.6	7.8	9.2	6.9	7.8	10.4	7.9	9.1
11	7.5	.8	3.5	12.8	4.1	8.1	9.1	5.6	7.1	11.8	8.7	10.2
12	6.2	1.1	3.3	13.0	5.4	8.8	8.5	4.6	6.4	12.3	9.3	10.9
13	6.9	.3	3.2	12.0	5.8	8.9	9.5	4.4	6.9	12.2	9.8	11.2
14	7.0	-.2	3.0	10.4	5.8	8.1	10.9	5.5	8.0	12.5	9.7	11.2
15	8.1	.7	3.8	10.8	6.1	8.5	11.8	7.5	9.6	12.6	10.1	11.4
16	7.7	.8	4.1	10.5	6.9	8.6	12.7	8.2	10.4	12.5	9.8	11.3
17	6.8	2.7	4.6	9.8	7.4	8.4	12.5	9.2	10.9	12.2	10.0	11.1
18	8.9	2.8	5.3	11.0	6.1	8.5	11.7	9.2	10.6	12.4	9.6	11.0
19	8.2	1.8	5.0	11.5	6.9	9.2	12.1	9.2	10.6	11.6	10.3	11.0
20	4.7	2.1	3.4	11.3	7.5	9.4	11.7	9.1	10.3	11.2	9.7	10.4
21	6.8	.0	3.0	9.9	7.7	8.9	11.3	9.8	10.4	10.7	9.5	10.0
22	5.9	.0	2.7	9.3	6.8	8.0	12.1	9.3	10.4	9.8	8.7	9.1
23	4.6	1.6	3.0	9.8	6.9	8.2	9.8	8.2	9.2	10.5	8.1	9.3
24	4.8	1.0	2.7	8.0	6.0	7.3	8.2	7.2	7.8	10.6	9.5	10.1
25	8.0	1.3	4.0	7.6	4.4	6.1	8.6	6.1	7.3	9.6	8.4	9.0
26	7.7	.5	3.7	9.2	4.5	6.9	9.8	7.7	8.7	11.0	8.5	9.6
27	3.8	2.5	3.1	10.2	5.9	8.0	10.7	8.0	9.3	12.0	9.1	10.4
28	7.5	1.4	3.9	10.2	7.2	8.8	11.1	9.0	10.0	12.4	9.7	11.0
29	---	---	---	10.9	7.5	9.1	10.4	8.9	9.5	12.4	9.9	11.1
30	---	---	---	10.6	6.8	8.8	8.9	7.5	8.2	13.9	10.5	12.2
31	---	---	---	10.4	7.7	8.6	---	---	---	14.8	11.7	13.3
MONTH	8.9	-.3	3.4	13.0	.5	7.4	12.7	4.4	8.4	14.8	6.7	10.3
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.0	11.9	13.7	23.2	17.5	20.0	29.2	21.5	24.8	25.7	19.0	21.5
2	14.6	12.6	13.5	23.1	16.7	19.7	28.4	21.6	24.6	26.4	19.7	22.6
3	14.1	11.5	12.9	25.0	17.0	20.7	27.9	22.4	24.5	26.5	19.5	22.6
4	14.5	11.7	13.3	26.3	17.3	21.5	25.7	22.0	23.5	24.0	20.5	22.1
5	14.4	12.3	13.4	24.9	17.3	21.2	26.8	21.5	23.6	25.2	18.5	21.6
6	14.9	12.9	13.9	26.2	17.3	21.7	26.4	21.0	23.2	22.4	19.8	20.8
7	15.9	13.6	14.6	26.2	18.3	21.8	26.9	19.9	22.9	25.5	17.4	20.9
8	14.1	12.9	13.5	26.7	19.1	22.2	27.3	19.8	23.2	24.7	17.5	20.9
9	13.0	11.6	12.3	26.4	18.3	22.0	25.4	20.1	22.5	24.1	19.1	21.2
10	14.4	12.0	13.1	26.5	18.5	22.3	24.0	20.6	22.2	24.7	18.2	20.9
11	16.5	10.6	13.9	23.5	19.8	21.6	24.5	19.8	21.6	21.9	16.4	19.4
12	17.5	14.2	15.7	25.1	17.7	21.2	24.0	18.8	21.0	24.4	17.5	20.5
13	16.0	14.2	15.1	27.5	18.3	22.4	23.5	18.2	20.5	22.7	16.7	19.4
14	14.2	12.8	13.7	28.4	18.5	23.1	24.8	18.3	21.2	24.8	16.9	20.3
15	15.2	12.2	13.6	29.3	19.1	23.9	25.2	18.2	21.5	20.4	17.7	19.5
16	15.6	13.0	14.3	28.5	19.8	24.0	25.7	19.4	22.1	20.9	17.0	18.8
17	17.8	14.1	15.9	28.8	20.3	24.4	26.0	18.9	22.1	21.5	16.8	19.2
18	18.8	15.2	17.0	27.0	22.1	24.1	27.3	19.8	23.0	23.0	17.7	20.0
19	19.6	16.1	17.9	27.5	20.9	23.6	25.0	19.4	22.4	21.9	17.1	19.1
20	20.2	16.3	18.3	27.5	20.0	23.6	27.8	19.7	23.4	22.7	16.5	19.2
21	20.7	17.4	19.1	28.4	20.0	23.9	25.0	19.8	22.4	18.0	16.1	17.2
22	19.1	16.3	17.7	28.7	21.2	24.4	28.2	20.3	23.8	20.0	15.0	17.0
23	18.0	15.2	16.6	29.0	21.8	24.8	29.2	20.6	24.2	21.3	14.2	17.2
24	19.3	15.0	17.0	29.0	21.2	24.8	28.0	21.3	24.3	21.7	14.1	17.5
25	19.9	15.3	17.6	29.0	20.4	24.5	27.2	20.5	23.5	21.2	14.4	17.7
26	19.8	16.2	18.2	26.0	20.3	23.0	23.2	20.2	22.3	18.6	16.9	17.7
27	21.0	16.8	18.8	28.7	20.6	23.9	25.4	19.0	22.1	22.7	16.3	18.9
28	22.2	17.2	19.6	24.0	21.3	22.5	25.1	19.3	21.9	22.8	15.3	18.6
29	22.9	17.9	20.3	24.8	19.9	22.1	25.3	19.5	22.0	22.1	14.5	18.0
30	22.7	17.8	20.1	23.0	20.6	21.7	25.5	18.9	21.5	22.6	14.4	18.0
31	---	---	---	27.5	20.1	23.1	22.2	19.1	20.4	---	---	---
MONTH	22.9	10.6	15.8	29.3	16.7	22.7	29.2	18.2	22.7	26.5	14.1	19.6

YEAR 29.3 -.9 10.7

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 December 1912, April 1930 to September 1934, April 1942 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "at Placerville," 1910-12. 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	116	91	e80	e80	e74	272	644	1280	986	597	249
2	109	112	e90	e80	e80	e74	243	534	1550	891	477	229
3	421	122	81	e84	83	e74	257	495	1410	882	593	218
4	312	118	e90	e86	82	75	327	620	1340	834	568	223
5	247	118	e90	86	e80	71	254	686	1420	743	709	231
6	222	115	e90	88	e80	73	221	772	1430	727	622	214
7	223	98	e91	68	e80	e70	217	718	1250	669	494	211
8	245	100	e93	81	75	e72	219	778	1210	606	405	188
9	252	103	e96	e80	e76	77	230	720	1150	606	385	175
10	256	103	e98	e80	e72	80	236	744	1050	596	662	176
11	227	100	e99	e80	e72	88	217	601	1070	619	673	197
12	251	99	98	e80	e72	97	189	651	1140	569	483	247
13	245	101	95	e80	e73	105	181	821	1120	641	422	216
14	236	102	94	e80	e74	107	183	932	1070	631	378	224
15	221	100	68	75	e76	103	210	892	1070	631	328	234
16	210	105	90	59	e76	109	287	940	1050	605	304	460
17	199	94	71	e70	e78	118	411	976	1040	528	291	287
18	176	105	60	e72	e80	119	513	984	1120	534	278	250
19	158	107	e80	e75	e80	124	687	972	1230	495	264	256
20	160	110	e86	e80	86	156	877	948	1340	570	256	261
21	143	108	e78	e80	84	199	896	1110	1340	508	248	277
22	125	132	e77	e80	75	230	842	1110	1340	493	239	356
23	117	138	e78	e80	e73	272	749	974	1280	608	230	309
24	113	114	e80	e80	e76	309	629	862	1190	555	227	284
25	112	115	e77	e80	e80	246	587	848	1040	470	229	267
26	116	110	e76	e80	e80	224	702	802	982	420	313	250
27	118	109	e76	e82	e76	236	744	737	946	541	268	268
28	140	95	e80	80	e74	260	869	702	943	670	241	253
29	137	e100	e80	e80	---	280	773	675	960	686	226	219
30	128	e100	e80	e79	---	234	646	720	998	707	225	176
31	125	---	e81	e77	---	246	---	972	---	737	235	---
TOTAL	5861	3249	2614	2442	2173	4602	13668	24940	35359	19758	11870	7405
MEAN	189	108	84.3	78.8	77.6	148	456	805	1179	637	383	247
MAX	421	138	99	88	86	309	896	1110	1550	986	709	460
MIN	109	94	60	59	72	70	181	495	943	420	225	175
AC-FT	11630	6440	5180	4840	4310	9130	27110	49470	70130	39190	23540	14690

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1997, BY WATER YEAR (WY)

MEAN	111	83.4	68.3	62.8	62.8	76.1	233	569	801	450	215	141
MAX	399	138	104	92.1	94.2	148	593	1515	1528	1197	484	342
(WY)	1912	1985	1987	1943	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1911 - 1997	
ANNUAL TOTAL	72579		133941			
ANNUAL MEAN	198		367		239	
HIGHEST ANNUAL MEAN					414	1983
LOWEST ANNUAL MEAN					88.8	1977
HIGHEST DAILY MEAN	1020	May 18	1550	Jun 2	2740	Jun 21 1983
LOWEST DAILY MEAN	60	Dec 18	59	Jan 16	26	Jan 5 1960
ANNUAL SEVEN-DAY MINIMUM	70	Mar 1	73	Mar 2	31	Dec 25 1976
INSTANTANEOUS PEAK FLOW			1790	Jun 2	[a]3830	Jun 24 1983
INSTANTANEOUS PEAK STAGE			5.07	Jun 2	[b]6.20	Jun 24 1983
ANNUAL RUNOFF (AC-FT)	144000		265700		173000	
10 PERCENT EXCEEDS	466		953		651	
50 PERCENT EXCEEDS	114		224		105	
90 PERCENT EXCEEDS	77		77		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 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	133	103	104	e100	110	951	1160	1610	947	533	204
2	56	124	e105	105	e100	104	799	1010	1990	829	415	181
3	307	135	98	e110	e95	115	828	893	1850	792	456	163
4	370	140	88	e105	e95	113	1390	1010	1880	743	509	160
5	249	135	99	e100	e95	96	891	1160	1970	670	697	191
6	198	133	e115	e95	e100	99	681	1300	1850	646	682	156
7	179	120	e115	e95	e100	107	649	1510	1480	575	536	158
8	192	106	111	e100	94	109	701	1500	1500	509	440	137
9	212	114	119	97	e95	110	812	1320	1490	485	409	118
10	266	114	134	e100	e100	114	838	1160	1350	472	571	122
11	240	104	133	e100	e100	130	687	1160	1340	499	714	149
12	249	74	124	e100	e105	160	517	1260	1390	447	474	193
13	254	56	118	e100	e105	200	459	1370	1370	512	400	185
14	240	58	117	e100	104	238	488	1470	1280	501	371	183
15	224	63	95	97	e110	241	620	1430	1240	508	329	193
16	218	79	89	83	113	294	921	1510	1140	495	299	394
17	209	105	e90	89	116	375	1400	1530	1050	422	277	292
18	194	122	e85	98	118	398	1590	1520	1170	426	252	233
19	168	124	e100	101	117	532	1770	1490	1280	417	233	218
20	172	127	e95	104	120	829	2020	1410	1410	464	222	240
21	157	125	e95	e105	123	1100	2040	1580	1420	442	210	224
22	139	138	e95	e100	108	1150	1860	1690	1410	397	195	342
23	126	191	e95	e100	123	1320	1540	1590	1350	502	169	312
24	122	160	e100	e100	122	1310	1450	1400	1230	479	169	276
25	120	143	e100	e100	116	792	1270	1470	1040	393	163	251
26	129	140	e100	e100	113	696	1150	1430	960	354	242	238
27	126	139	e100	e100	116	803	1190	1090	894	382	240	259
28	145	109	e105	e100	116	908	1580	899	881	556	188	253
29	168	125	e100	e95	---	1010	1550	785	892	594	166	230
30	148	134	e100	e95	---	749	1170	764	925	523	160	164
31	141	---	105	e95	---	763	---	1150	---	718	185	---
TOTAL	5777	3570	3228	3073	3019	15075	33812	40021	40642	16699	10906	6419
MEAN	186	119	104	99.1	108	486	1127	1291	1355	539	352	214
MAX	370	191	134	110	123	1320	2040	1690	1990	947	714	394
MIN	56	56	85	83	94	96	459	764	881	354	160	118
AC-FT	11460	7080	6400	6100	5990	29900	67070	79380	80610	33120	21630	12730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1997, BY WATER YEAR (WY)

MEAN	157	105	92.1	97.7	102	286	737	1077	1125	566	229	127
MAX	186	119	104	99.1	108	486	1127	1317	1631	1059	352	214
(WY)	1997	1997	1997	1997	1997	1997	1997	1995	1995	1995	1997	1997
MIN	127	90.1	80.1	96.4	97.1	84.7	386	622	389	101	11.0	49.0
(WY)	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1995 - 1997	
ANNUAL TOTAL	68467.0		182241			
ANNUAL MEAN	187		499		338	
HIGHEST ANNUAL MEAN					499	1997
LOWEST ANNUAL MEAN					178	1996
HIGHEST DAILY MEAN	1020	May 17	2040	Apr 21	[a]2370	Jun 17 1995
LOWEST DAILY MEAN	2.7	Sep 11	[b]56	Oct 2	2.7	Sep 11 1996
ANNUAL SEVEN-DAY MINIMUM	3.6	Aug 14	77	Nov 11	3.6	Aug 14 1996
INSTANTANEOUS PEAK FLOW			2810	Apr 21	3200	Jun 17 1995
INSTANTANEOUS PEAK STAGE			5.90	Apr 21	6.32	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	135800		361500		245000	
10 PERCENT EXCEEDS	468		1400		1340	
50 PERCENT EXCEEDS	105		224		179	
90 PERCENT EXCEEDS	14		100		67	

e-Estimated.
a-Also occurred Jun 18, 1995.
b-Also occurred Nov 13.

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. 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 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	37
2	---	---	---	---	---	---	---	---	---	---	---	35
3	---	---	---	---	---	---	---	---	---	---	---	28
4	---	---	---	---	---	---	---	---	---	---	---	25
5	---	---	---	---	---	---	---	---	---	---	---	24
6	---	---	---	---	---	---	---	---	---	---	---	90
7	---	---	---	---	---	---	---	---	---	---	---	57
8	---	---	---	---	---	---	---	---	---	---	---	44
9	---	---	---	---	---	---	---	---	---	---	---	33
10	---	---	---	---	---	---	---	---	---	---	---	29
11	---	---	---	---	---	---	---	---	---	---	---	22
12	---	---	---	---	---	---	---	---	---	---	---	26
13	---	---	---	---	---	---	---	---	---	---	---	32
14	---	---	---	---	---	---	---	---	---	---	---	74
15	---	---	---	---	---	---	---	---	---	---	---	112
16	---	---	---	---	---	---	---	---	---	---	---	105
17	---	---	---	---	---	---	---	---	---	---	---	104
18	---	---	---	---	---	---	---	---	---	---	---	197
19	---	---	---	---	---	---	---	---	---	---	---	154
20	---	---	---	---	---	---	---	---	---	---	---	115
21	---	---	---	---	---	---	---	---	---	---	---	102
22	---	---	---	---	---	---	---	---	---	---	---	89
23	---	---	---	---	---	---	---	---	---	---	---	95
24	---	---	---	---	---	---	---	---	---	---	---	95
25	---	---	---	---	---	---	---	---	---	---	---	92
26	---	---	---	---	---	---	---	---	---	---	---	86
27	---	---	---	---	---	---	---	---	---	---	---	83
28	---	---	---	---	---	---	---	---	---	---	---	79
29	---	---	---	---	---	---	---	---	---	---	---	75
30	---	---	---	---	---	---	---	---	---	---	40	72
31	---	---	---	---	---	---	---	---	---	---	38	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	2211
MEAN	---	---	---	---	---	---	---	---	---	---	---	73.7
MAX	---	---	---	---	---	---	---	---	---	---	---	197
MIN	---	---	---	---	---	---	---	---	---	---	---	22
AC-FT	---	---	---	---	---	---	---	---	---	---	---	4390

09177000 SAN MIGUEL RIVER AT URAVAN, CO--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	160	130	147	e110	125	1110	1420	1890	976	621	269
2	63	e150	139	120	e120	118	1010	1310	2340	884	497	241
3	1100	e150	116	127	e120	119	952	1210	2220	837	496	211
4	577	e160	e110	e130	e110	127	1930	1380	2180	787	589	226
5	319	e160	e130	e130	e110	111	1310	1620	2280	708	770	237
6	251	e160	e140	e120	e110	109	883	1830	2120	678	745	221
7	221	e150	e140	116	e110	116	870	2110	1750	621	589	224
8	226	e140	e140	123	114	121	943	2140	1780	558	503	201
9	243	129	e170	129	e110	123	1080	1870	1840	520	459	176
10	291	129	e190	e130	e110	129	1170	1670	1780	501	562	174
11	265	127	197	e130	e110	143	1010	1640	1660	525	799	178
12	258	109	165	e120	e110	175	827	1740	1620	494	575	210
13	267	97	152	e120	e120	239	743	1870	1590	529	498	248
14	257	98	143	e120	e120	285	784	2010	1480	536	450	249
15	246	e100	127	120	e120	283	952	1950	1420	539	401	288
16	230	e110	109	94	e120	331	1280	2040	1330	523	353	500
17	229	e110	128	100	e125	421	1990	2050	1230	468	323	388
18	213	e140	91	e120	e130	451	2620	2040	1290	457	295	307
19	186	160	85	e120	e130	578	2930	2010	1400	470	264	268
20	181	162	e100	e120	e130	1010	2640	1870	1520	498	252	295
21	175	164	e120	e130	e130	1590	2260	2040	1540	498	239	311
22	162	180	e130	e130	e130	1550	2080	2320	1500	436	232	449
23	143	262	e130	e120	e120	1750	1750	2210	1440	522	218	392
24	139	e240	130	e120	e130	1830	1600	1940	1320	542	220	344
25	137	e210	133	116	e130	1040	1460	2100	1150	447	218	316
26	149	e190	e130	e120	125	867	1320	2130	1040	400	291	299
27	143	e190	e130	e120	131	982	1350	1630	975	399	324	332
28	162	141	e130	e120	131	1090	1790	1410	955	585	228	322
29	202	151	133	e120	---	1250	1860	1280	951	635	201	286
30	176	162	131	e110	---	952	1410	1240	966	570	193	236
31	165	---	131	e110	---	952	---	1490	---	803	205	---
TOTAL	7441	4591	4130	3752	3366	18967	43914	55570	46557	17946	12610	8398
MEAN	240	153	133	121	120	612	1464	1793	1552	579	407	280
MAX	1100	262	197	147	131	1830	2930	2320	2340	976	799	500
MIN	63	97	85	94	110	109	743	1210	951	399	193	174
AC-FT	14760	9110	8190	7440	6680	37620	87100	110200	92350	35600	25010	16660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1997, BY WATER YEAR (WY)

MEAN	137	117	94.0	88.1	107	196	868	1206	1039	445	191	128
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 WATER YEAR		WATER YEARS 1954 - 1997	
ANNUAL TOTAL	227242			
ANNUAL MEAN	623		386	
HIGHEST ANNUAL MEAN			758	1984
LOWEST ANNUAL MEAN			89.3	1977
HIGHEST DAILY MEAN	2930	Apr 19	5440	May 16 1984
LOWEST DAILY MEAN	63	Oct 2	9.4	Aug 10 1977
ANNUAL SEVEN-DAY MINIMUM	107	Nov 11	14	Aug 8 1977
INSTANTANEOUS PEAK FLOW	4120	Apr 20	[a]8050	May 10 1983
INSTANTANEOUS PEAK STAGE	7.33	Apr 20	10.14	May 10 1983
ANNUAL RUNOFF (AC-FT)	450700		279300	
10 PERCENT EXCEEDS	1780		1100	
50 PERCENT EXCEEDS	264		134	
90 PERCENT EXCEEDS	120		58	

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	75	66	e61	e59	e57	129	255	366	168	211	126
2	54	72	e65	e62	e61	e57	105	243	423	142	176	128
3	58	73	e65	e62	e62	e60	125	207	475	131	129	120
4	61	84	e64	e61	e59	e60	147	203	428	136	138	122
5	57	83	e64	e60	e59	e59	111	252	415	135	186	144
6	55	77	e65	e60	e60	e59	90	281	446	141	252	107
7	55	73	e65	e59	e59	e60	90	290	460	136	189	113
8	56	86	e65	e60	e60	e61	92	310	488	126	150	111
9	55	74	e64	e60	e59	e60	102	288	582	128	133	108
10	55	74	e64	e61	e60	e60	99	288	500	134	289	109
11	56	77	e63	e60	e60	e61	89	284	436	143	230	112
12	57	74	e63	e60	e60	e60	89	293	415	143	212	113
13	57	73	e64	e60	e59	e60	94	288	392	139	187	100
14	56	75	e65	e57	e60	e58	97	271	365	135	172	102
15	55	78	e66	e55	e60	e60	115	269	345	132	148	104
16	58	77	e65	e55	e58	e60	149	249	328	129	133	113
17	62	65	e63	e60	e59	e60	168	238	313	132	124	120
18	64	82	e62	e60	e57	e64	183	239	310	139	128	136
19	72	93	e61	e58	e57	e70	187	233	317	156	119	181
20	73	97	e60	e57	e60	e75	214	204	313	162	119	232
21	69	87	e58	e60	e59	e80	270	197	301	149	113	233
22	70	88	e58	e59	e58	e85	194	274	275	142	112	153
23	71	97	e60	e59	e59	e90	180	267	252	152	109	143
24	70	83	e60	e58	e59	e95	181	247	241	274	106	148
25	74	79	e60	e59	e59	103	158	229	229	218	118	144
26	76	79	e61	e61	e59	113	175	250	221	195	125	146
27	76	71	e62	e60	e60	114	186	217	215	182	135	160
28	77	67	e62	e60	e60	123	211	198	208	e200	126	143
29	86	66	e62	e60	---	129	315	344	204	223	132	145
30	76	64	e62	e60	---	101	265	456	184	212	113	142
31	75	---	e63	e60	---	115	---	360	---	218	120	---
TOTAL	1989	2343	1947	1844	1661	2369	4610	8224	10447	4952	4734	4058
MEAN	64.2	78.1	62.8	59.5	59.3	76.4	154	265	348	160	153	135
MAX	86	97	66	62	62	129	315	456	582	274	289	233
MIN	53	64	58	55	57	57	89	197	184	126	106	100
AC-FT	3950	4650	3860	3660	3290	4700	9140	16310	20720	9820	9390	8050

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1997, BY WATER YEAR (WY)

MEAN	46.0	49.9	42.7	39.7	41.7	58.2	113	121	131	108	77.5	55.5
MAX	76.7	78.1	71.1	74.2	75.4	79.7	259	278	348	167	153	135
(WY)	1996	1997	1996	1996	1996	1989	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1989 - 1997	
ANNUAL TOTAL	44747		49178			
ANNUAL MEAN	122		135		73.7	
HIGHEST ANNUAL MEAN					135	1997
LOWEST ANNUAL MEAN					44.6	1994
HIGHEST DAILY MEAN	483	Apr 11	582	Jun 9	582	Jun 9 1997
LOWEST DAILY MEAN	34	Sep 5	53	Oct 1	[a]14	Jan 24 1990
ANNUAL SEVEN-DAY MINIMUM	42	Aug 30	56	Oct 5	15	Jan 22 1990
INSTANTANEOUS PEAK FLOW			633	Jun 9	633	Jun 9 1997
INSTANTANEOUS PEAK STAGE			5.61	Jun 9	[b]5.61	Jun 9 1997
ANNUAL RUNOFF (AC-FT)	88760		97540		53420	
10 PERCENT EXCEEDS	271		274		138	
50 PERCENT EXCEEDS	76		99		55	
90 PERCENT EXCEEDS	60		59		31	

e-Estimated.
a-Also occurred Jan 25-26, 1990.
b-Maximum gage height 6.76 ft, Nov 30, 1995, 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. September 1939 to November 15, 1939, nonrecording gage, November 16, 1939 to September 1944 and October 1956 to September 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	76	62	87	84	84	89	89	390	185	171	133
2	76	67	69	98	84	84	94	90	405	170	159	131
3	76	67	59	107	84	85	94	89	492	152	149	129
4	76	77	70	83	84	85	92	88	458	143	148	129
5	69	70	68	76	84	85	92	89	449	138	164	136
6	68	63	71	78	85	86	92	92	433	135	192	134
7	77	68	67	83	85	86	92	113	460	133	198	133
8	78	62	65	81	85	86	92	181	472	128	175	131
9	78	60	73	91	85	87	92	253	611	124	154	126
10	77	66	73	63	85	84	94	268	608	123	185	123
11	79	70	74	66	85	83	96	278	513	123	218	118
12	68	56	74	68	85	85	95	288	463	124	216	117
13	69	67	74	83	85	84	95	294	500	122	203	112
14	79	75	65	82	85	77	96	327	459	121	190	109
15	79	64	64	82	86	88	96	314	405	116	174	108
16	78	57	72	82	85	88	96	291	391	117	156	107
17	77	61	73	84	86	85	95	267	363	113	148	107
18	76	65	70	74	85	85	93	247	341	118	144	107
19	66	67	73	80	85	84	92	246	341	124	140	111
20	66	64	72	91	85	85	92	247	326	133	137	143
21	77	64	64	90	85	84	93	238	313	132	132	210
22	77	57	65	92	85	85	92	256	296	133	129	212
23	77	61	74	92	85	86	91	287	271	131	127	191
24	76	61	75	89	85	84	93	292	254	150	127	171
25	77	67	83	95	85	84	93	261	239	158	129	153
26	67	41	82	92	84	84	92	264	228	143	129	143
27	70	69	92	84	84	86	94	250	222	140	132	141
28	80	68	82	84	84	86	94	225	215	142	132	134
29	76	68	78	85	---	87	93	273	206	156	133	128
30	77	62	95	84	---	86	91	469	200	167	119	122
31	76	---	89	84	---	87	---	441	---	168	132	---
TOTAL	2318	1940	2267	2610	2374	2635	2795	7407	11324	4262	4842	4049
MEAN	74.8	64.7	73.1	84.2	84.8	85.0	93.2	239	377	137	156	135
MAX	80	77	95	107	86	88	96	469	611	185	218	212
MIN	66	41	59	63	84	77	89	88	200	113	119	107
AC-FT	4600	3850	4500	5180	4710	5230	5540	14690	22460	8450	9600	8030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1997, BY WATER YEAR (WY)

MEAN	58.4	59.4	60.5	60.3	58.3	55.7	67.0	109	128	91.1	79.1	72.5
MAX	89.5	94.7	93.3	84.2	84.8	88.0	166	303	377	172	156	135
(WY)	1996	1996	1996	1997	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1989 - 1997	
ANNUAL TOTAL	44824		48823			
ANNUAL MEAN	122		134		[a] 74.9	
HIGHEST ANNUAL MEAN					134	1997
LOWEST ANNUAL MEAN					[b] 32.1	1989
HIGHEST DAILY MEAN	389	May 10	611	Jun 9	611	Jun 9 1997
LOWEST DAILY MEAN	41	Nov 26	41	Nov 26	[c,d] 9.4	Jun 1 1989
ANNUAL SEVEN-DAY MINIMUM	59	Nov 20	59	Nov 20	10	May 29 1989
INSTANTANEOUS PEAK FLOW			641	Jun 11	[f] 641	Jun 11 1997
INSTANTANEOUS PEAK STAGE			3.82	Jun 11	[g] 3.82	Jun 11 1997
ANNUAL RUNOFF (AC-FT)	88910		96840		54270	
10 PERCENT EXCEEDS	268		265		124	
50 PERCENT EXCEEDS	89		92		60	
90 PERCENT EXCEEDS	66		68		35	

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. Statistics do not include period of no record.

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	8.5	8.5	4.4	3.7	2.3	20	39	665	303	23	4.8
2	6.7	7.8	8.7	4.5	3.2	2.3	19	34	719	263	16	6.0
3	7.8	7.1	8.7	4.6	3.2	2.2	19	31	744	257	13	6.7
4	6.9	6.9	8.7	5.1	3.1	2.5	22	37	691	237	12	19
5	5.0	6.1	8.7	5.8	3.1	2.5	20	57	699	226	20	18
6	4.1	5.9	8.7	5.2	3.0	2.4	18	85	627	218	26	13
7	3.5	6.5	8.7	6.3	2.9	2.4	16	116	629	185	16	12
8	2.8	6.1	8.3	5.6	2.8	2.5	15	e120	661	119	10	10
9	2.3	5.8	7.3	6.6	2.5	2.4	14	e140	604	107	7.7	8.9
10	3.8	5.7	7.3	5.0	2.7	2.8	14	e160	605	93	36	8.3
11	8.7	5.8	7.3	6.3	2.7	3.1	13	e180	620	84	43	8.1
12	33	6.0	7.8	5.8	2.7	4.7	13	e200	595	74	29	15
13	31	6.3	7.2	4.8	2.7	6.1	12	e200	538	76	36	12
14	30	7.0	6.5	4.6	2.7	4.6	11	e210	504	58	113	9.0
15	25	7.5	8.9	4.1	2.8	4.4	11	e210	500	49	45	7.5
16	5.9	7.2	9.0	4.0	2.6	4.5	14	e300	478	45	28	15
17	2.7	6.8	9.1	3.5	2.8	5.2	23	e310	513	41	24	11
18	3.8	7.6	9.0	3.6	2.7	6.2	35	e325	577	39	26	32
19	4.0	8.3	9.0	3.4	2.9	8.4	43	e330	688	43	27	309
20	4.6	8.6	9.0	3.4	3.0	14	51	345	671	40	20	453
21	4.7	7.3	9.0	3.7	2.6	18	63	365	649	30	16	376
22	3.5	10	8.8	3.5	2.7	21	45	393	717	24	13	169
23	3.8	12	6.5	3.4	2.8	27	39	425	627	22	9.2	112
24	6.4	10	5.7	3.5	2.6	28	38	485	539	23	8.4	77
25	6.6	9.8	5.5	3.3	2.7	22	35	373	465	18	7.5	67
26	4.7	9.2	5.6	3.7	2.7	20	37	272	443	16	7.8	114
27	7.4	9.1	6.1	3.7	2.7	22	41	223	429	14	8.9	136
28	7.4	13	5.5	3.6	2.9	20	51	220	424	16	7.9	84
29	5.9	9.5	5.4	3.8	---	21	60	491	398	42	7.3	61
30	12	8.4	4.9	3.3	---	20	45	534	372	31	6.4	46
31	10	---	5.0	3.4	---	20	---	530	---	36	5.1	---
TOTAL	274.0	235.8	234.4	135.5	79.5	324.5	857	7740	17391	2829	668.2	2220.3
MEAN	8.84	7.86	7.56	4.37	2.84	10.5	28.6	250	580	91.3	21.6	74.0
MAX	33	13	9.1	6.6	3.7	28	63	534	744	303	113	453
MIN	2.3	5.7	4.9	3.3	2.5	2.2	11	31	372	14	5.1	4.8
AC-FT	543	468	465	269	158	644	1700	15350	34500	5610	1330	4400
a	160	156	177	200	186	210	168	182	222	390	239	199

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1997, BY WATER YEAR (WY)

MEAN	10.3	9.95	7.57	5.87	5.56	9.08	35.3	209	386	90.2	9.43	9.94
MAX	27.7	19.5	12.0	10.7	9.38	16.1	59.0	358	580	331	21.6	74.0
(WY)	1983	1983	1996	1970	1970	1986	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1967 - 1997	
ANNUAL TOTAL	27393.1		32989.2			
ANNUAL MEAN	74.8		90.4			
HIGHEST ANNUAL MEAN					98.6	1984
LOWEST ANNUAL MEAN					41.6	1989
HIGHEST DAILY MEAN	716	Jun 21	744	Jun 3	814	Jun 21 1968
LOWEST DAILY MEAN	1.6	Aug 13	2.2	Mar 3	.01	Aug 7 1972
ANNUAL SEVEN-DAY MINIMUM	1.8	Aug 11	2.4	Mar 1	.11	Aug 7 1972
INSTANTANEOUS PEAK FLOW			949	Jun 21	1110	Jun 20 1968
INSTANTANEOUS PEAK STAGE			2.95	Jun 21	3.14	Jun 20 1968
ANNUAL RUNOFF (AC-FT)	54330		65430			
10 PERCENT EXCEEDS	314		383		245	
50 PERCENT EXCEEDS	7.8		10		9.8	
90 PERCENT EXCEEDS	2.9		3.1		3.6	

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 NW1/4NE1/4 sec.17, T.6 N., R.84 W., Routt County, Hydrologic Unit 14050001, on left bank 30 ft upstream from Fifth Street Bridge in Steamboat Springs and 0.6 mi upstream from Soda Creek.

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	132	118	113	191	139	473	1200	4640	1110	368	195
2	124	127	127	120	171	139	435	1070	4790	974	323	196
3	122	128	124	124	152	140	447	903	5090	901	280	191
4	119	133	130	111	142	138	560	863	4850	817	260	202
5	111	131	154	115	140	136	507	1040	4710	755	298	221
6	109	117	131	118	139	136	428	1280	4450	712	409	217
7	107	121	141	128	138	137	386	1570	4190	644	435	227
8	106	127	85	137	135	137	376	1770	4290	530	354	218
9	108	129	122	128	136	137	387	1840	4190	493	293	200
10	102	122	118	127	138	140	385	1950	4170	458	438	187
11	95	141	119	137	138	145	341	2060	4110	434	634	182
12	118	125	112	150	136	149	310	2140	3770	407	571	198
13	117	122	110	156	137	152	296	2170	3390	401	468	196
14	116	124	104	155	135	154	296	2260	3180	359	541	180
15	113	132	107	158	137	151	321	2400	3010	325	407	171
16	100	129	108	155	134	157	454	2620	2780	301	328	190
17	94	130	108	154	136	172	701	2880	2850	288	290	181
18	95	134	131	174	132	191	992	3040	2850	279	277	214
19	111	136	148	156	136	207	1200	3160	3050	344	295	901
20	117	134	130	155	142	232	1400	3090	3040	354	273	1600
21	110	136	134	156	139	260	1650	3050	2840	314	246	1620
22	106	146	127	150	141	281	1300	3190	2730	281	226	1010
23	106	162	125	148	140	322	1180	3440	2410	265	210	794
24	109	148	122	151	140	381	1190	3430	2130	270	202	609
25	115	140	124	161	141	352	1100	3210	1850	281	197	516
26	107	139	126	186	141	361	1140	2870	1670	268	198	489
27	107	130	129	187	142	389	1090	2440	1560	255	204	626
28	108	126	122	171	141	404	1270	2180	1470	249	202	482
29	114	132	120	197	---	448	1790	3070	1350	345	209	404
30	125	123	117	176	---	414	1460	4410	1250	366	202	353
31	135	---	116	174	---	427	---	4430	---	391	191	---
TOTAL	3460	3956	3789	4628	3970	7128	23865	75026	96660	14171	9829	12970
MEAN	112	132	122	149	142	230	796	2420	3222	457	317	432
MAX	135	162	154	197	191	448	1790	4430	5090	1110	634	1620
MIN	94	117	85	111	132	136	296	863	1250	249	191	171
AC-FT	6860	7850	7520	9180	7870	14140	47340	148800	191700	28110	19500	25730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1997, BY WATER YEAR (WY)

MEAN	133	125	103	99.5	102	166	659	1732	1826	370	152	110
MAX	357	195	161	160	165	433	1675	3350	3771	1684	387	432
(WY)	1962	1947	1938	1938	1921	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1910 - 1997	
ANNUAL TOTAL	229721		259452			
ANNUAL MEAN	628		711		466	
HIGHEST ANNUAL MEAN					821	1984
LOWEST ANNUAL MEAN					169	1977
HIGHEST DAILY MEAN	3810	May 18	5090	Jun 3	5870	Jun 14 1921
LOWEST DAILY MEAN	82	Sep 2	85	Dec 8	[a]4.0	Sep 8 1934
ANNUAL SEVEN-DAY MINIMUM	85	Aug 30	105	Oct 16	4.9	Sep 9 1944
INSTANTANEOUS PEAK FLOW			5310	Jun 3	[b]6820	Jun 14 1921
INSTANTANEOUS PEAK STAGE			7.65	Jun 3	[c]7.08	Jun 14 1921
ANNUAL RUNOFF (AC-FT)	455700		514600		337500	
10 PERCENT EXCEEDS	2350		2510		1520	
50 PERCENT EXCEEDS	134		198		136	
90 PERCENT EXCEEDS	106		117		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 1996 TO SEPTEMBER 1997

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)
NOV												
05...	1100	137	289	8.2	2.5	11.3	K11	K28	120	31	11	8.3
APR												
17...	1050	612	218	7.9	3.5	11.5	K39	K15	94	26	7.3	7.0
JUN												
05...	0730	4860	75	7.5	6.5	11.0	79	K40	30	8.2	2.3	2.2
AUG												
29...	0800	207	287	8.2	17.0	8.4	94	39	130	33	12	7.6

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE[a] WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY[b] WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA-LINITY[c] 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)
NOV												
05...	0.3	1.8	--	--	116	31	2.6	0.1	5.8	161	0.22	59.7
APR												
17...	0.3	2.7	--	--	87	24	3.7	0.1	13	136	0.18	224
JUN												
05...	0.2	0.8	--	--	28	7.0	0.6	<0.1	8.0	46	0.06	603
AUG												
29...	0.3	1.8	136	112	--	28	1.9	0.1	12	164	0.22	91.6

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								
05...	0.02	<0.05	0.02	0.40	0.20	0.02	<0.01	<0.01
APR								
17...	<0.01	0.16	0.03	0.50	0.30	0.09	0.02	0.03
JUN								
05...	<0.01	<0.05	<0.02	<0.20	<0.20	0.02	<0.01	<0.01
AUG								
29...	0.01	0.06	<0.02	0.28	0.38	0.01	0.02	<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, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV										
05...	<1	2	360	<1	70	39	<0.1	<1	<0.2	<3
APR										
17...	<1	3	1200	<1	96	54	<0.1	<1	<0.2	<3
JUN										
05...	<1	<1	560	<1	21	7	<0.1	<1	<0.2	<3
AUG										
29...	<1	3	160	<1	29	12	<0.1	<1	<0.2	<3

K-Based on non-ideal colony count.
a-Field dissolved bicarbonate, determined by incremental titration method.
b-Field total dissolved alkalinity, determined by incremental titration method.
c-Lab total dissolved alkalinity, determined by fixed end point titration method.

09239500 YAMPA RIVER AT STEAMBOAT SPRINGS, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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...	0935	128	277	9.0
JAN				
02...	1325	132	316	0.0
MAR				
04...	1040	145	345	1.0
APR				
16...	1135	386	271	4.5
MAY				
14...	1200	2170	120	5.0
30...	0915	4480	100	5.0
JUN				
01...	0825	4410	90	6.0
04...	0635	4910	84	7.0
JUL				
02...	0925	903	113	11.5
AUG				
06...	1415	463	238	18.0
SEP				
08...	1355	214	276	18.5

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.

WATER-DISCHARGE RECORDS

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.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,590 ft above sea level, from topographic map. May 1904 to September 1909, nonrecording gage, at different datum, October 1910 to September 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	112	e123	e120	e129	e120	382	1670	4380	1820	476	128
2	109	94	e120	e120	e128	e119	352	1380	5040	1540	367	133
3	108	110	e120	e122	e125	e120	379	1180	4970	1530	327	121
4	120	122	e122	e122	e122	e119	513	1240	4920	1420	420	120
5	110	120	e122	e124	e122	e118	456	1680	4880	1370	402	126
6	100	117	e124	e122	e124	e117	369	2060	4620	1330	532	119
7	93	111	e124	e122	e122	e117	342	2700	4330	1310	382	114
8	89	101	e125	e122	e120	e120	346	2900	4540	1310	307	128
9	85	102	e125	e120	e120	e120	350	2770	4390	1240	276	113
10	82	102	e126	e121	e121	e116	333	2880	4210	1120	411	105
11	79	103	e126	e122	e122	e118	304	3020	4060	1050	570	106
12	79	107	e125	e122	e122	e120	282	3100	3600	971	510	145
13	78	113	e125	e122	e121	e124	273	3060	3300	1060	405	141
14	77	106	e124	e120	e120	e124	277	3200	3100	911	445	197
15	89	109	e122	e120	e121	e124	312	3300	2970	829	361	193
16	84	109	e122	e120	e121	e124	440	3680	2660	781	302	196
17	84	109	e120	e120	e121	e125	787	4150	2700	730	263	194
18	69	111	e120	e121	e122	e130	1160	4410	2940	721	258	225
19	94	120	e120	e120	e121	e150	1550	4190	3730	705	284	1630
20	103	135	e118	e120	e121	e190	1850	4070	4150	633	244	2590
21	87	128	e117	e120	e120	e210	1970	3980	4080	579	217	2340
22	75	141	e115	e119	e120	e250	1440	3930	3820	521	227	1220
23	79	e135	e116	e118	e121	e300	1330	3750	3510	487	203	960
24	93	e130	e118	e117	e121	e325	1370	3760	3130	484	184	730
25	103	e125	e120	e116	e120	324	1310	3840	2660	527	174	578
26	102	e120	e125	e115	e120	314	1550	3160	2360	552	166	539
27	89	e120	e120	e122	e122	324	1630	2630	2280	527	172	838
28	113	e122	e120	e123	e120	338	2020	2350	2240	508	154	571
29	116	e124	e122	e125	---	360	2720	3180	2180	580	139	469
30	127	e125	e121	e127	---	351	1940	3930	2020	425	130	467
31	118	---	e120	e127	---	371	---	3720	---	569	121	---
TOTAL	2950	3483	3767	3751	3409	5982	28337	94870	107770	28140	9429	15536
MEAN	95.2	116	122	121	122	193	945	3060	3592	908	304	518
MAX	127	141	126	127	129	371	2720	4410	5040	1820	570	2590
MIN	69	94	115	115	120	116	273	1180	2020	425	121	105
AC-FT	5850	6910	7470	7440	6760	11870	56210	188200	213800	55820	18700	30820

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 1997, BY WATER YEAR (WY)

MEAN	140	111	91.6	88.8	91.1	171	729	2120	2270	710	175	117
MAX	424	234	125	121	145	320	1214	3977	3824	1940	445	518
(WY)	1919	1919	1926	1997	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1905 - 1997	
ANNUAL TOTAL	225488		307424			
ANNUAL MEAN	616		842		576	
HIGHEST ANNUAL MEAN					886	1917
LOWEST ANNUAL MEAN					282	1992
HIGHEST DAILY MEAN	4620	May 17	5040	Jun 2	5350	Jun 15 1921
LOWEST DAILY MEAN	42	Sep 11	69	Oct 18	[a]17	Sep 12 1994
ANNUAL SEVEN-DAY MINIMUM	47	Sep 9	80	Oct 12	21	Sep 7 1994
INSTANTANEOUS PEAK FLOW			5370	Jun 3	[b]5530	Jun 15 1921
INSTANTANEOUS PEAK STAGE			7.18	Jun 3	[c]6.35	Jun 15 1921
ANNUAL RUNOFF (AC-FT)	447300		609800		417300	
10 PERCENT EXCEEDS	2250		3100		1950	
50 PERCENT EXCEEDS	125		141		134	
90 PERCENT EXCEEDS	82		110		65	

e-Estimated.
a-A lesser discharge may have occurred during periods of no gage-height record prior to Sep 20, 1919.
b-Site and datum then in use.
c-Maximum gage height, 7.18 ft, Jun 3, 1997.

09242500 ELK RIVER NEAR MILNER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1975 to September 1976 and April 1990 to September 1997 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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											
05...	1200	122	125	8.1	2.0	11.9	K26	K13	54	16	3.3
APR											
17...	1200	668	280	8.0	4.0	11.5	44	K35	110	29	11
JUN											
05...	0930	4990	52	7.6	5.5	11.7	190	110	22	6.7	1.3
AUG											
29...	0930	138	108	7.9	14.5	9.4	53	31	45	14	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)	ALKA-LINITY 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)
NOV											
05...	3.7	0.2	1.0	48	12	1.6	0.2	9.7	77	0.10	25.2
APR											
17...	9.1	0.4	2.1	82	53	2.2	0.2	9.5	165	0.22	298
JUN											
05...	1.4	0.1	0.7	22	3.2	0.3	<0.1	7.0	34	0.05	459
AUG											
29...	2.8	0.2	1.0	45	7.0	0.9	0.2	6.9	63	0.09	23.3

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								
05...	0.01	0.05	0.02	<0.2	<0.2	<0.01	<0.01	<0.01
APR								
17...	<0.01	0.25	<0.02	0.6	0.2	0.14	<0.01	<0.01
JUN								
05...	<0.01	<0.05	<0.01	0.2	<0.2	0.03	<0.01	<0.01
AUG								
29...	<0.01	<0.05	0.04	0.2	0.2	<0.01	<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, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV										
05...	<1	<1	140	<1	10	11	<0.1	<1	<0.2	8
APR										
17...	<1	5	1600	<1	65	22	<0.1	<1	<0.2	4
JUN										
05...	<1	<1	1300	<1	45	8	<0.1	<1	<0.2	<3
AUG										
29...	<1	5	100	<1	68	62	<0.1	<1	<0.2	<3

K-Based on non-ideal colony count.

09242500 ELK RIVER NEAR MILNER, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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...	0815	109	99	7.0
JAN				
02...	1200	120	152	0.0
MAR				
25...	1010	295	285	0.0
APR				
16...	1010	381	336	4.0
30...	0910	1940	126	6.0
MAY				
19...	1330	3890	71	8.0
30...	1245	3630	70	8.0
JUN				
01...	1600	4060	74	8.0
04...	0850	5210	60	8.0
JUL				
02...	1135	1480	45	9.0
AUG				
06...	1550	578	77	16.0
SEP				
08...	1515	145	102	18.5

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. Prior to Oct. 2, 1996, at site 70 ft upstream.

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.42	.60	.76	e.90	.78	.63	7.2	71	31	4.4	3.2	1.2
2	.39	.57	.66	e.90	.76	.60	5.2	61	32	4.7	2.7	1.1
3	.37	.57	e.70	e.80	.76	.54	5.6	52	36	4.6	2.4	1.1
4	.40	.65	e.80	e.80	.76	.59	6.9	49	29	4.6	3.4	1.2
5	.37	.70	.87	e.90	.76	.61	5.6	55	26	4.2	3.7	1.1
6	.33	.58	.80	e.80	.77	.81	5.0	67	23	4.0	5.3	1.0
7	.29	.65	.91	.96	.92	.73	4.1	84	22	3.9	4.1	1.2
8	.29	.64	.90	.94	.92	.66	4.0	97	25	3.7	3.1	1.1
9	.29	.65	.77	.88	.95	.72	4.4	93	24	3.5	2.7	1.1
10	.29	.61	.76	.81	.95	.71	4.2	89	21	3.6	4.1	.98
11	.27	.59	.73	.91	.86	.72	3.6	82	15	3.5	4.0	1.1
12	.26	.59	.77	1.0	.86	.72	3.6	76	14	3.1	3.4	1.3
13	.26	.58	.76	1.0	.91	.80	3.6	69	14	3.0	3.1	1.1
14	.26	.61	e.80	.91	.79	1.2	3.4	63	13	2.7	2.9	1.1
15	.28	.69	e.80	.84	.73	1.3	3.4	57	13	2.6	2.5	1.3
16	.31	.64	e.80	.86	.77	1.1	4.8	61	15	4.0	2.2	1.5
17	.37	.66	e.80	.95	.77	2.1	8.6	60	12	5.2	2.0	1.3
18	.36	.67	e.80	.76	.87	1.7	13	54	11	5.7	1.9	1.8
19	.41	.70	e.80	.78	.77	2.4	19	47	11	6.5	1.6	5.3
20	.45	.74	.84	.77	.73	3.1	24	39	9.8	5.9	1.6	8.3
21	.49	.74	.75	.73	.74	e3.0	41	36	8.8	5.6	1.5	8.1
22	.55	.87	.75	.75	.80	e4.0	28	31	8.3	5.3	1.4	5.6
23	.59	e.90	.69	.71	.77	4.7	27	26	7.4	5.3	1.3	4.8
24	.58	.89	.74	.76	.72	3.5	28	23	6.6	5.8	1.2	4.1
25	.62	.81	e.70	.71	.73	3.7	26	22	6.4	5.7	1.2	3.5
26	.62	.81	e.70	.68	.72	2.7	31	22	6.0	5.1	1.2	3.3
27	.56	.65	e.70	.72	.69	2.7	33	22	5.6	4.7	1.2	3.3
28	.58	e.70	e.70	.76	.65	3.3	49	22	5.3	4.3	1.2	2.7
29	.64	e.74	e.70	.77	---	3.7	64	37	5.0	4.7	1.3	2.5
30	.65	.73	e.80	.74	---	3.4	62	36	4.7	3.6	1.2	2.4
31	.61	---	e.90	.76	---	4.1	---	31	---	3.7	1.2	---
TOTAL	13.16	20.53	23.96	25.56	22.21	60.54	528.2	1634	460.9	137.2	73.8	75.48
MEAN	.42	.68	.77	.82	.79	1.95	17.6	52.7	15.4	4.43	2.38	2.52
MAX	.65	.90	.91	1.0	.95	4.7	64	97	36	6.5	5.3	8.3
MIN	.26	.57	.66	.68	.65	.54	3.4	22	4.7	2.6	1.2	.98
AC-FT	26	41	48	51	44	120	1050	3240	914	272	146	150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1997, BY WATER YEAR (WY)

MEAN	.42	.61	.57	.54	.73	1.90	12.3	24.5	5.84	1.84	1.18	.41
MAX	1.36	1.98	1.83	1.85	2.46	7.90	41.9	98.2	26.1	5.89	9.06	2.52
(WY)	1986	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1976 - 1997	
ANNUAL TOTAL	3084.60		3075.54			
ANNUAL MEAN	8.43		8.43		4.27	
HIGHEST ANNUAL MEAN					13.2	1984
LOWEST ANNUAL MEAN					.50	1977
HIGHEST DAILY MEAN	128	Apr 25	97	May 8	297	May 14 1984
LOWEST DAILY MEAN	[a].26	Oct 12	[a].26	Oct 12	[b].00	Oct 1 1975
ANNUAL SEVEN-DAY MINIMUM	.27	Oct 9	.27	Oct 9	.00	Oct 1 1975
INSTANTANEOUS PEAK FLOW			[c]103	May 8	[d]329	May 14 1984
INSTANTANEOUS PEAK STAGE			2.90	May 8	[f]4.08	May 14 1984
ANNUAL RUNOFF (AC-FT)	6120		6100		3090	
10 PERCENT EXCEEDS	22		28		11	
50 PERCENT EXCEEDS	.90		1.2		.76	
90 PERCENT EXCEEDS	.50		.61		.00	

e-Estimated.
a-Also occurred Oct 13-14.
b-No flow many days most years.
c-From rating curve extended above 70 ft^3/s.
d-From rating curve extended above 77 ft^3/s.
f-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.

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.45	.72	.62	e.65	.22	.15	13	22	12	2.5	1.8	.99
2	.48	.67	.57	.63	.13	.13	11	21	11	2.8	1.5	.94
3	.56	.67	.70	.40	.09	.11	12	19	12	2.8	1.3	.85
4	.61	.73	.57	.81	.07	.11	13	19	10	2.7	1.2	.87
5	.67	.76	.67	.61	.08	.13	11	19	9.5	2.6	1.3	.89
6	.65	.89	.73	.69	.11	.20	9.9	19	8.5	2.6	2.5	.85
7	.66	.73	.72	1.3	.12	.25	9.6	22	8.1	2.5	1.9	.86
8	.63	.74	.74	.73	.14	.28	10	24	8.7	2.4	1.7	.77
9	.57	.70	e.80	.50	.16	.34	11	23	8.4	2.1	1.4	.75
10	.57	.66	.80	.46	.14	.43	11	23	8.5	1.5	2.1	.75
11	.58	.63	.76	.66	.15	.56	8.9	22	8.5	.92	2.2	.79
12	.61	.70	.83	.65	.14	.55	8.2	21	7.8	1.0	1.9	1.1
13	.56	.66	.73	.49	.28	.72	7.9	20	7.4	1.1	1.7	1.1
14	.50	.66	e.80	.27	.32	.71	8.0	19	6.9	1.1	1.7	1.1
15	.47	.87	e.80	.18	.37	.63	9.3	18	6.6	1.0	1.4	1.1
16	.50	.82	e.84	.14	.37	.86	14	17	6.4	1.0	1.2	1.2
17	.56	.79	e.80	.13	.40	3.6	20	16	5.9	1.1	1.2	1.2
18	.55	.73	e.82	.15	.34	11	20	15	5.7	1.1	1.2	1.6
19	.66	.82	e.83	.14	.17	9.1	18	14	5.6	1.2	1.0	4.3
20	.73	e.85	e.82	.14	.17	7.2	21	13	5.3	1.1	1.1	7.5
21	.70	e.85	e.82	.19	.17	8.0	23	13	4.9	1.1	.99	7.4
22	.68	e.83	e.80	.16	.17	9.1	16	14	4.5	2.1	.98	5.1
23	.72	e.83	e.82	.19	.11	10	15	13	4.3	3.0	.91	4.3
24	.73	e.81	e.80	.17	.13	11	14	12	4.0	2.8	.89	3.5
25	.84	.76	e.82	.19	.12	9.8	12	12	3.6	2.5	.89	3.1
26	.89	.71	.84	.39	.14	8.2	12	12	3.4	2.1	.89	2.8
27	.82	.61	.86	.32	.12	9.0	12	11	3.1	1.7	.98	2.9
28	.78	.58	.81	.23	.12	9.7	17	10	3.0	1.6	1.0	2.3
29	.88	.66	e.84	.37	---	11	29	19	2.8	1.7	.97	1.9
30	.76	.56	e.74	.34	---	9.8	21	17	2.6	1.6	.97	1.7
31	.76	---	.68	.38	---	12	---	13	---	1.8	.86	---
TOTAL	20.13	22.00	23.78	12.66	5.05	144.66	417.8	532	199.0	57.12	41.63	64.51
MEAN	.65	.73	.77	.41	.18	4.67	13.9	17.2	6.63	1.84	1.34	2.15
MAX	.89	.89	.86	1.3	.40	12	29	24	12	3.0	2.5	7.5
MIN	.45	.56	.57	.13	.07	.11	7.9	10	2.6	.92	.86	.75
AC-FT	40	44	47	25	10	287	829	1060	395	113	83	128

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1997, BY WATER YEAR (WY)

MEAN	.51	.53	.42	.41	.72	2.05	6.97	5.47	1.93	.84	.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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1976 - 1997		
ANNUAL TOTAL	1689.94		1540.34				
ANNUAL MEAN	4.62		4.22		1.72		
HIGHEST ANNUAL MEAN					4.59		1996
LOWEST ANNUAL MEAN					.022		1977
HIGHEST DAILY MEAN	49	May 5	29	Apr 29	49	May 5	1996
LOWEST DAILY MEAN	.12	Jan 18	.07	Feb 4	[a].00	Oct 1	1975
ANNUAL SEVEN-DAY MINIMUM	.18	Jan 12	.11	Feb 2	.00	Oct 1	1975
INSTANTANEOUS PEAK FLOW			[b]38	Apr 29	[b]65	May 5	1996
INSTANTANEOUS PEAK STAGE			3.43	Apr 29	4.47	May 5	1996
ANNUAL RUNOFF (AC-FT)	3350		3060		1250		
10 PERCENT EXCEEDS	16		13		4.5		
50 PERCENT EXCEEDS	.81		.97		.57		
90 PERCENT EXCEEDS	.34		.19		.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.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to September 1981, June 1982 to current year.

REVISED RECORDS.--WDR CO-78-3: 1976 (M), 1976.

GAGE.--Water-stage recorder. 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.-- 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	1.6	2.0	1.2	.65	.35	17	37	18	2.6	3.2	1.2
2	2.1	1.5	2.1	1.2	.69	.41	16	40	16	2.1	2.6	1.0
3	5.7	1.9	2.3	1.1	.64	.46	17	33	21	2.3	1.8	1.1
4	5.7	1.6	e2.0	1.2	.53	.56	19	28	15	2.2	1.5	1.3
5	5.8	1.4	e1.8	1.5	.41	.53	17	27	13	1.9	1.8	1.2
6	3.9	1.5	1.6	1.8	.43	.52	14	26	11	1.9	4.0	1.1
7	3.0	1.4	1.4	1.9	.48	.56	13	27	9.7	1.9	3.8	1.0
8	3.0	1.5	1.5	1.4	.48	.65	13	30	11	2.2	3.2	.85
9	3.7	1.9	e1.4	1.2	.63	.71	16	32	12	2.5	2.9	.75
10	2.9	1.8	e1.4	1.2	.57	.74	19	30	12	2.2	4.6	.55
11	2.5	1.5	e1.5	1.1	.43	.83	15	28	11	1.5	4.9	.69
12	2.1	1.3	e1.6	1.2	.41	.82	13	27	6.5	1.3	4.4	1.1
13	1.6	1.5	e1.7	1.3	.47	.85	12	25	6.0	1.3	3.6	.96
14	.93	1.6	e1.6	1.2	.55	.87	11	24	5.4	1.2	3.3	.89
15	.81	2.0	1.5	1.0	.53	.83	13	24	6.7	1.1	2.5	.67
16	1.0	2.3	1.6	.86	.63	.76	17	23	6.7	1.1	2.5	.90
17	1.2	2.3	1.7	.84	.66	.79	25	21	5.5	1.1	2.8	1.2
18	.86	2.5	1.6	.71	.62	.80	32	20	4.5	1.4	3.3	2.8
19	1.0	2.6	1.6	.72	.63	2.0	35	19	4.1	1.9	3.0	8.5
20	1.4	2.7	e1.5	.71	.79	e10	42	18	3.7	1.7	2.2	21
21	.98	2.9	e1.6	.64	.82	e15	49	19	3.3	1.6	2.0	25
22	.64	3.0	e1.6	.52	.54	e17	31	19	3.2	1.8	1.7	9.2
23	.75	e2.9	e1.6	.49	.49	20	29	18	3.1	3.2	1.5	4.2
24	.83	e2.9	e1.6	.57	.42	15	26	18	2.9	3.8	1.5	3.0
25	1.2	2.9	e1.6	.45	.46	12	23	17	2.7	3.1	1.3	2.3
26	1.7	2.7	e1.6	.52	.49	10	22	19	2.6	3.0	1.3	2.3
27	1.6	2.4	e1.7	.55	.55	11	21	18	2.5	2.8	1.5	2.4
28	1.6	1.8	1.7	.62	.45	11	24	16	2.6	2.4	1.3	1.7
29	1.5	1.6	1.5	.61	---	14	47	28	2.7	3.2	1.4	1.5
30	2.1	1.9	1.4	.67	---	12	40	41	2.7	3.0	1.4	1.4
31	1.7	---	1.2	.66	---	14	---	22	---	3.4	1.3	---
TOTAL	64.20	61.4	50.5	29.64	15.45	175.04	688	774	227.1	66.7	78.1	101.76
MEAN	2.07	2.05	1.63	.96	.55	5.65	22.9	25.0	7.57	2.15	2.52	3.39
MAX	5.8	3.0	2.3	1.9	.82	20	49	41	21	3.8	4.9	25
MIN	.40	1.3	1.2	.45	.41	.35	11	16	2.5	1.1	1.3	.55
AC-FT	127	122	100	59	31	347	1360	1540	450	132	155	202

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1997, BY WATER YEAR (WY)

MEAN	.86	1.07	.98	.93	1.43	5.14	14.7	9.77	3.19	1.46	.75	.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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1976 - 1997	
ANNUAL TOTAL	2660.72		2331.89			
ANNUAL MEAN	7.27		6.39		3.40	
HIGHEST ANNUAL MEAN					7.63	1986
LOWEST ANNUAL MEAN					.070	1977
HIGHEST DAILY MEAN	74	Apr 11	49	Apr 21	79	Apr 25 1984
LOWEST DAILY MEAN	e,a .04	Aug 13	.35	Mar 1	b .00	Oct 1 1975
ANNUAL SEVEN-DAY MINIMUM	.06	Aug 9	.45	Feb 24	.00	Oct 1 1975
INSTANTANEOUS PEAK FLOW			c 64	Apr 29	d 90	Apr 11 1996
INSTANTANEOUS PEAK STAGE			f 5.80	Apr 29	f 6.43	Apr 11 1996
ANNUAL RUNOFF (AC-FT)	5280		4630		2460	
10 PERCENT EXCEEDS	31		21		9.0	
50 PERCENT EXCEEDS	1.6		1.9		1.0	
90 PERCENT EXCEEDS	.40		.63		.00	

e-Estimated.
a-Also occurred Aug 14.
b-No flow many days, most years.
c-From rating curve extended above 37 ft^3/s.
d-Also occurred Apr 22, 1980.
f-Maximum gage height, 6.75 ft, Mar 20, 1997, backwater from ice.

09243900 FOIDEL CREEK AT MOUTH, NEAR OAK CREEK, CO--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--July 1978 to current year.

INSTRUMENTATION.--Belfort weighing-bucket rain gage.

REMARKS.--Unpublished rainfall data for water years 1978-86 are available in district office. Data not published for periods of missing record.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 1.42 inches, Sept. 20.

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	.00	.01	.30	.22	.00	.00	.00	.00
2	.00	.00	---	---	.08	.00	.14	.00	.03	.00	.00	.00
3	.06	.08	---	---	.02	.10	.00	.00	.04	.00	.00	.00
4	.05	.02	---	---	.00	.00	.05	.00	.03	.00	.00	.00
5	.01	.15	---	---	.02	.02	.09	.00	.03	.00	.20	.00
6	.00	.05	---	---	.00	.00	.00	.00	.04	.00	1.16	.00
7	.00	.00	---	---	.15	.00	.00	.00	.04	.00	.00	.00
8	.00	.00	---	---	.03	.00	.04	.00	.04	.00	.00	.00
9	.00	.00	---	---	.00	.00	.30	.00	.05	.00	.25	.00
10	.00	.00	---	---	.00	.00	.37	.00	.00	.00	.68	.00
11	.00	.00	---	---	.02	.00	.00	.00	.00	.00	.17	.00
12	.00	.00	---	---	---	.00	.00	.00	.00	.03	.00	.19
13	.00	.00	---	---	---	.00	.00	.00	.00	.00	.03	.05
14	.00	.34	---	---	---	.00	.00	.00	.00	.00	.00	.00
15	.00	.27	---	---	---	.00	.00	.00	.00	.00	.00	.00
16	.12	.07	---	---	---	.00	.00	.05	.00	.00	.00	.00
17	.00	.09	---	.00	---	.00	.00	.00	.03	.00	.00	.00
18	.00	.00	---	.00	---	.00	.00	.04	.00	.05	.05	1.17
19	.11	.00	---	.10	---	.00	.00	.02	.05	.00	.00	1.30
20	.00	.00	---	.10	---	.00	.00	.23	.00	.00	.00	1.42
21	.00	.45	---	.00	---	.00	.19	.06	.00	.00	.00	.35
22	.00	.13	---	.24	---	.00	.00	.13	.00	.00	.00	.14
23	.00	.00	---	.39	---	.00	.03	.00	.00	.03	.00	.00
24	.15	.00	---	.05	.00	.12	.03	.04	.00	.00	.00	.00
25	.32	.00	---	.16	.00	.00	.00	.15	.00	.00	.00	.00
26	.07	.00	---	.00	.00	.00	.00	.18	.00	.00	.04	.18
27	.00	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.02
28	.17	---	---	.00	.02	.00	.45	.24	.00	.34	.00	.00
29	.00	---	---	.00	---	.00	.35	1.26	.00	.00	.05	.00
30	.00	---	---	.05	---	.00	.00	.00	.00	.05	.00	.00
31	.00	---	---	.00	---	.00	---	.00	---	.14	.00	---
TOTAL	1.06	---	---	---	---	0.25	2.34	2.62	0.38	0.64	2.63	4.82

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	9.6	e16	e18	e18	e19	243	599	1050	e51	16	6.7
2	3.8	8.4	14	e15	e21	e20	177	479	960	e46	14	7.4
3	4.2	8.2	e15	e19	e19	e20	202	391	849	e44	12	8.2
4	4.6	10	15	e18	e19	e19	300	453	727	e41	11	7.5
5	4.7	11	14	e20	e21	e18	221	851	597	e37	14	6.4
6	4.5	8.5	14	e21	e19	e18	145	1310	498	e33	29	5.7
7	4.1	8.1	15	e19	e25	e18	122	1860	419	e29	25	5.9
8	3.8	12	15	e21	e23	e18	129	1720	394	e27	17	5.5
9	3.7	9.6	14	e20	e21	e19	162	1560	380	e24	13	5.2
10	3.7	8.1	15	e19	e20	e20	147	1610	336	e22	15	4.8
11	3.4	8.2	15	e21	e18	e21	109	1650	341	e22	22	5.0
12	3.4	8.8	14	e19	e19	e24	90	1720	309	e21	27	5.5
13	3.4	9.5	14	e20	e23	e25	78	1630	337	e19	23	7.9
14	3.5	9.3	18	e19	e14	e27	76	1640	290	e18	19	9.0
15	3.6	10	e17	e21	e18	e34	75	1650	279	e16	18	8.3
16	4.1	9.7	e21	e22	e18	e47	203	1600	304	e15	14	8.3
17	4.4	13	e19	e22	e19	e60	363	1620	277	e14	11	7.5
18	4.1	10	e19	e23	e18	e89	513	1600	274	e15	9.9	12
19	4.2	9.8	e17	e22	e19	e152	818	1370	195	e18	9.6	96
20	5.9	11	e18	e23	e21	420	834	1250	e193	e19	11	139
21	5.4	12	e19	e24	e19	650	771	1110	e191	e16	9.0	215
22	4.4	19	e17	e23	e19	494	464	1050	e163	e14	7.9	143
23	4.2	37	e18	e25	e19	363	406	896	e142	e17	7.4	83
24	4.8	28	e17	e24	e21	288	506	942	e124	e17	7.5	54
25	6.3	19	e17	e21	e19	155	392	983	e109	e14	7.4	39
26	7.4	17	e16	e20	e20	160	565	817	e95	e12	7.8	34
27	9.4	11	e19	e19	e20	221	653	658	e83	e11	9.6	80
28	10	13	e20	e20	e20	189	1110	576	e74	e12	8.7	51
29	8.7	e14	e15	e19	---	204	1760	1020	e65	e13	8.4	37
30	6.5	e15	e16	e18	---	181	791	1290	e57	e14	7.5	29
31	9.8	---	e17	e18	---	232	---	951	---	15	6.4	---
TOTAL	158.0	377.8	510	633	550	4225	12425	36856	10112	686	418.1	1126.8
MEAN	5.10	12.6	16.5	20.4	19.6	136	414	1189	337	22.1	13.5	37.6
MAX	10	37	21	25	25	650	1760	1860	1050	51	29	215
MIN	3.4	8.1	14	15	14	18	75	391	57	11	6.4	4.8
AC-FT	313	749	1010	1260	1090	8380	24640	73100	20060	1360	829	2240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1997, BY WATER YEAR (WY)

MEAN	8.02	13.8	14.4	14.5	14.9	85.9	387	973	228	17.1	7.86	15.3
MAX	10.9	15.0	16.5	20.4	19.6	136	414	1189	337	22.1	13.5	37.6
(WY)	1996	1996	1997	1997	1997	1997	1997	1997	1997	1997	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1995 - 1997	
ANNUAL TOTAL	41085.98		68077.7			
ANNUAL MEAN	112		187		150	
HIGHEST ANNUAL MEAN					187	1997
LOWEST ANNUAL MEAN					113	1996
HIGHEST DAILY MEAN	1310	May 9	1860	May 7	1860	May 7 1997
LOWEST DAILY MEAN	.10	Sep 4	[a]3.4	Oct 11	.10	Sep 4 1996
ANNUAL SEVEN-DAY MINIMUM	.36	Sep 1	3.5	Oct 9	.36	Sep 1 1996
INSTANTANEOUS PEAK FLOW			[b]2760	May 7	2760	May 7 1997
INSTANTANEOUS PEAK STAGE			7.86	May 7	7.86	May 7 1997
ANNUAL RUNOFF (AC-FT)	81490		135000		108300	
10 PERCENT EXCEEDS	408		655		460	
50 PERCENT EXCEEDS	11		19		15	
90 PERCENT EXCEEDS	2.2		7.1		4.2	

e-Estimated.
a-Also occurred Oct 12-13.
b-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 Oct. 1-23, Apr. 23 to May 1, and July 15 to Aug. 5, which are fair, and May 2-30, which is poor. Water temperature record is fair except for Mar. 28 to May 30, which is poor. Interruptions in daily record are the result of removal of monitor during winter or instrument malfunctions. Daily maximum and minimum specific conductance and water temperature are available for the period Aug. to Sept. 1995 in the district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 642 microsiemens, Sept. 19, 1997; minimum, 101 microsiemens, May 11, 1996.
WATER TEMPERATURE: Maximum, 27.3°C, July 4, 1996; minimum, 0.0°C, on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 642 microsiemens, Sept. 19; minimum, 105 microsiemens, May 16.
WATER TEMPERATURE: Maximum, 27.1°C, Aug. 2; minimum, 0.0°C, Apr. 6, and 12-13.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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											
31...	1000	3.4	314	8.3	1.5	5.8	12.6	130	32	11	15
NOV											
29...	1130	13	596	8.2	0.5	4.6	10.9	220	52	23	40
DEC											
26...	1200	15	503	8.0	0.0	1.5	11.0	200	48	19	30
JAN											
24...	1200	16	599	7.8	0.0	1.8	11.1	220	52	22	35
FEB											
24...	1400	e21	746	8.0	0.0	--	11.2	270	60	29	48
MAR											
28...	1330	137	446	7.9	4.5	66	11.3	150	35	16	28
APR											
23...	1300	377	291	8.1	4.5	87	11.4	110	27	10	16
MAY											
01...	1345	585	272	8.1	3.0	93	11.1	110	26	9.9	14
22...	1015	1030	121	8.2	6.5	82	11.5	55	15	4.3	4.7
JUL											
30...	1030	14	370	8.3	20.0	3.0	8.5	140	33	14	21
AUG											
06...	1500	34	330	8.3	21.0	82	8.1	130	32	11	18
SEP											
02...	1345	7.5	436	8.3	24.0	4.8	7.2	160	38	16	28

e-Estimated.

09246200 ELKHEAD CREEK ABOVE LONG GULCH, NEAR HAYDEN, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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										
31...	0.6	1.6	129	37	2.8	0.1	13	192	0.26	1.8
NOV										
29...	1	2.2	140	160	4.9	0.1	10	376	0.51	13
DEC										
26...	0.9	1.7	141	110	4.1	0.2	14	312	0.42	13
JAN										
24...	1	1.7	143	160	4.4	0.2	14	376	0.51	16
FEB										
24...	1	2.1	150	230	4.9	0.1	13	478	0.65	--
MAR										
28...	1	2.4	97	120	3.0	0.2	10	274	0.37	101
APR										
23...	0.7	1.8	79	66	1.9	<0.1	9.3	180	0.24	184
MAY										
01...	0.6	1.6	77	59	2.6	<0.1	8.7	169	0.23	265
22...	0.3	0.9	50	14	0.7	<0.1	9.5	79	0.11	221
JUL										
30...	0.8	2.0	141	46	4.0	0.2	5.4	210	0.29	7.9
AUG										
06...	0.7	2.1	123	42	3.1	0.1	5.7	188	0.26	17
SEP										
02...	0.9	2.3	164	54	5.3	0.2	8.1	250	0.34	5.1

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)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
OCT										
31...	0.02	<0.05	0.050	<0.20	<0.20	<0.01	<0.01	<0.01	4.1	4.1
NOV										
29...	<0.01	<0.05	0.020	0.30	0.40	<0.01	<0.01	<0.01	--	--
DEC										
26...	<0.01	0.10	0.020	<0.20	<0.20	<0.01	<0.01	<0.01	--	--
JAN										
24...	0.01	0.18	0.030	<0.20	0.20	<0.01	<0.01	<0.01	--	--
FEB										
24...	<0.01	0.27	0.030	0.40	0.20	<0.01	<0.01	<0.01	--	--
MAR										
28...	<0.01	0.29	<0.015	0.50	<0.20	0.12	0.04	0.03	9.4	7.1
APR										
23...	<0.01	0.24	<0.015	0.69	0.39	0.09	<0.01	0.01	--	--
MAY										
01...	<0.01	0.25	<0.015	0.80	0.27	0.27	<0.01	0.02	13	1.3
22...	<0.01	0.18	<0.015	0.64	0.29	0.21	<0.01	<0.01	--	--
JUL										
30...	<0.01	<0.05	<0.015	0.29	0.30	<0.01	<0.01	<0.01	--	--
AUG										
06...	<0.01	0.08	0.019	0.36	<0.20	<0.01	<0.01	<0.01	--	--
SEP										
02...	<0.01	<0.05	<0.015	0.34	<0.20	0.03	<0.01	<0.01	5.0	5.1

09246200 ELKHEAD CREEK ABOVE LONG GULCH, NEAR HAYDEN, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)
OCT											
31...	230	<1	<1	100	49	<10	10	<1	<1	<1	<1
MAY											
01...	3800	1	<1	<100	34	<10	22	<1	<1	5	<1

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)
OCT											
31...	<1	<1	<1	460	9	<1	<1	<10	30	23	<0.1
MAY											
01...	4	7	<1	5900	35	5	<1	10	130	12	<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)	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										
31...	<0.1	1	2	2	<1	<1	<1	300	<10	9
MAY										
01...	0.1	1	10	2	<1	<1	<1	230	20	3

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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					
31...	1000	3.4	15	0.14	--
NOV					
29...	1130	13	13	0.46	--
DEC					
26...	1200	15	9	0.37	--
JAN					
24...	1200	16	11	0.46	--
FEB					
24...	1400	e21	17	--	--
MAR					
28...	1330	137	255	94	--
APR					
23...	1300	377	368	375	77
MAY					
01...	1345	585	416	657	67
22...	1015	1030	570	1590	64
JUL					
14...	1237	24	6	0.39	--
AUG					
06...	1500	34	192	18	100
SEP					
02...	1345	7.5	15	0.30	--

e-Estimated.

09246200 ELKHEAD CREEK ABOVE LONG GULCH, NEAR HAYDEN, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	399	367	375	---	---	---	---	---	---	---	---	---
2	382	373	377	---	---	---	---	---	---	---	---	---
3	391	380	383	---	---	---	---	---	---	---	---	---
4	396	388	392	---	---	---	---	---	---	---	---	---
5	391	376	385	---	---	---	---	---	---	---	---	---
6	379	376	378	---	---	---	---	---	---	---	---	---
7	380	376	378	---	---	---	---	---	---	---	---	---
8	380	375	378	---	---	---	---	---	---	---	---	---
9	378	372	376	---	---	---	---	---	---	---	---	---
10	377	372	375	---	---	---	---	---	---	---	---	---
11	382	376	378	---	---	---	---	---	---	---	---	---
12	388	382	385	---	---	---	---	---	---	---	---	---
13	391	387	389	---	---	---	---	---	---	---	---	---
14	394	390	392	---	---	---	---	---	---	---	---	---
15	401	394	397	---	---	---	---	---	---	---	---	---
16	402	393	399	---	---	---	---	---	---	---	---	---
17	404	393	400	---	---	---	---	---	---	---	---	---
18	406	396	402	---	---	---	---	---	---	---	---	---
19	403	386	397	---	---	---	---	---	---	---	---	---
20	391	368	380	---	---	---	---	---	---	---	---	---
21	368	360	363	---	---	---	---	---	---	---	---	---
22	371	362	368	---	---	---	---	---	---	---	---	---
23	376	371	374	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	412	403	406	289	257	270
2	---	---	---	---	---	---	446	411	428	309	283	292
3	---	---	---	---	---	---	452	442	446	320	301	310
4	---	---	---	---	---	---	452	412	424	315	294	307
5	---	---	---	---	---	---	414	408	410	294	252	267
6	---	---	---	---	---	---	432	409	416	252	191	206
7	---	---	---	---	---	---	450	431	439	202	160	172
8	---	---	---	---	---	---	465	449	457	189	153	173
9	---	---	---	---	---	---	478	463	472	178	147	157
10	---	---	---	---	---	---	476	470	473	151	138	143
11	---	---	---	---	---	---	500	475	489	148	139	144
12	---	---	---	---	---	---	519	498	508	142	126	134
13	---	---	---	---	---	---	531	512	520	140	121	129
14	---	---	---	---	---	---	534	523	528	127	113	121
15	---	---	---	---	---	---	534	520	526	124	110	116
16	---	---	---	---	---	---	546	494	528	131	105	120
17	---	---	---	---	---	---	494	361	429	131	122	125
18	---	---	---	---	---	---	361	321	340	129	120	124
19	---	---	---	---	---	---	351	273	332	139	126	130
20	---	---	---	---	---	---	302	266	282	145	137	141
21	---	---	---	---	---	---	280	257	266	137	128	131
22	---	---	---	---	---	---	318	277	298	129	119	124
23	---	---	---	---	---	---	319	288	304	131	124	127
24	---	---	---	---	---	---	336	293	305	126	119	123
25	---	---	---	---	---	---	327	305	314	131	124	127
26	---	---	---	---	---	---	323	268	285	140	129	132
27	---	---	---	---	---	---	282	254	267	147	140	144
28	---	---	---	---	---	---	257	233	244	154	144	149
29	---	---	---	435	403	415	251	235	243	177	151	161
30	---	---	---	457	425	433	259	236	246	181	151	167
31	---	---	---	443	401	413	---	---	---	151	128	144
MONTH	---	---	---	---	---	---	546	233	388	320	105	165

09246200 ELKHEAD CREEK ABOVE LONG GULCH, NEAR HAYDEN, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	131	114	124	272	262	266	422	363	403	---	---	---
2	127	108	117	276	267	273	363	342	349	---	---	---
3	136	114	127	278	264	273	393	351	374	433	418	427
4	137	122	130	275	264	270	397	385	391	426	418	422
5	138	123	130	310	275	284	391	367	382	438	422	433
6	143	127	134	312	289	302	---	---	---	455	417	444
7	151	142	146	301	285	295	---	---	---	452	445	448
8	162	148	153	301	284	294	---	---	---	460	448	454
9	173	161	168	307	294	301	---	---	---	469	447	460
10	172	162	166	312	302	308	---	---	---	481	457	473
11	193	171	182	352	312	341	---	---	---	477	464	472
12	192	162	180	339	327	332	---	---	---	471	459	464
13	190	170	182	343	329	336	---	---	---	480	428	457
14	191	185	188	339	329	335	---	---	---	431	427	429
15	206	184	195	362	337	353	---	---	---	430	419	427
16	204	183	195	376	357	369	---	---	---	419	411	414
17	222	194	206	389	371	382	---	---	---	426	415	420
18	218	198	206	391	378	385	---	---	---	417	398	407
19	213	199	204	397	371	386	---	---	---	642	343	439
20	219	204	211	373	362	368	---	---	---	549	499	523
21	209	199	205	401	365	388	---	---	---	513	433	458
22	211	199	208	409	393	401	---	---	---	451	425	439
23	217	209	214	402	393	398	---	---	---	432	421	424
24	227	214	222	405	392	398	---	---	---	445	428	438
25	235	227	231	398	382	391	---	---	---	456	442	449
26	245	235	241	394	377	387	---	---	---	448	431	439
27	251	245	248	384	377	380	---	---	---	490	412	441
28	254	248	250	390	378	384	---	---	---	489	437	460
29	273	251	258	389	374	382	---	---	---	478	435	451
30	276	263	270	384	359	373	---	---	---	438	431	434
31	---	---	---	416	364	373	---	---	---	---	---	---
MONTH	276	108	190	416	262	345	---	---	---	---	---	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	14.2	9.5	12.2	---	---	---	---	---	---	---	---	---
2	14.5	10.1	12.7	---	---	---	---	---	---	---	---	---
3	14.8	12.3	13.7	---	---	---	---	---	---	---	---	---
4	16.0	10.9	13.6	---	---	---	---	---	---	---	---	---
5	15.3	10.5	13.4	---	---	---	---	---	---	---	---	---
6	14.7	10.3	12.9	---	---	---	---	---	---	---	---	---
7	14.2	9.9	12.5	---	---	---	---	---	---	---	---	---
8	13.8	9.3	12.0	---	---	---	---	---	---	---	---	---
9	13.7	9.3	11.9	---	---	---	---	---	---	---	---	---
10	13.7	9.4	11.9	---	---	---	---	---	---	---	---	---
11	13.4	9.2	11.7	---	---	---	---	---	---	---	---	---
12	13.6	9.3	11.7	---	---	---	---	---	---	---	---	---
13	13.2	9.0	11.5	---	---	---	---	---	---	---	---	---
14	13.0	10.3	11.6	---	---	---	---	---	---	---	---	---
15	11.3	7.8	9.9	---	---	---	---	---	---	---	---	---
16	10.0	6.2	7.8	---	---	---	---	---	---	---	---	---
17	6.2	3.7	5.1	---	---	---	---	---	---	---	---	---
18	6.2	1.8	4.3	---	---	---	---	---	---	---	---	---
19	7.1	4.3	5.7	---	---	---	---	---	---	---	---	---
20	5.6	2.3	3.8	---	---	---	---	---	---	---	---	---
21	5.0	1.7	3.5	---	---	---	---	---	---	---	---	---
22	3.8	.8	2.5	---	---	---	---	---	---	---	---	---
23	4.0	1.1	2.8	---	---	---	---	---	---	---	---	---
24	---	1.2	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

09246200 ELKHEAD CREEK ABOVE LONG GULCH, NEAR HAYDEN, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	3.7	.2	2.0	5.6	2.7	3.9
2	---	---	---	---	---	---	6.1	.3	3.5	6.2	.6	3.3
3	---	---	---	---	---	---	8.5	2.7	5.6	9.2	2.6	5.9
4	---	---	---	---	---	---	7.7	2.9	4.0	10.9	4.6	8.0
5	---	---	---	---	---	---	3.1	.8	2.0	10.5	2.9	6.6
6	---	---	---	---	---	---	4.3	.0	1.9	10.4	2.4	6.1
7	---	---	---	---	---	---	6.3	.3	3.3	9.4	2.7	5.6
8	---	---	---	---	---	---	6.2	3.1	4.9	9.1	1.4	4.8
9	---	---	---	---	---	---	5.5	2.9	3.9	9.7	1.6	5.4
10	---	---	---	---	---	---	5.0	.2	2.7	10.1	1.8	5.7
11	---	---	---	---	---	---	5.7	.3	2.9	9.7	2.4	6.0
12	---	---	---	---	---	---	6.4	.0	2.9	9.0	2.8	5.9
13	---	---	---	---	---	---	7.9	.0	3.7	9.6	2.6	6.0
14	---	---	---	---	---	---	5.7	1.7	4.0	9.7	3.0	6.4
15	---	---	---	---	---	---	9.2	3.1	6.0	10.1	3.6	6.8
16	---	---	---	---	---	---	10.8	4.1	7.5	10.6	4.4	7.6
17	---	---	---	---	---	---	10.5	2.4	6.3	10.8	4.4	7.6
18	---	---	---	---	---	---	9.3	1.3	5.0	10.1	5.0	7.7
19	---	---	---	---	---	---	8.2	1.2	4.4	11.3	4.3	7.7
20	---	---	---	---	---	---	6.9	1.5	3.9	10.9	5.4	7.7
21	---	---	---	---	---	---	4.5	1.8	2.8	10.4	6.4	8.6
22	---	---	---	---	---	---	5.4	.9	3.3	10.1	6.3	7.7
23	---	---	---	---	---	---	6.4	1.5	4.0	11.3	5.7	8.3
24	---	---	---	---	---	---	6.5	2.1	4.5	11.2	7.1	8.3
25	---	---	---	---	---	---	9.5	2.0	5.6	8.7	5.9	7.4
26	---	---	---	---	---	---	9.1	3.2	6.1	8.7	5.0	6.1
27	---	---	---	---	---	---	9.8	1.0	5.4	9.2	4.9	6.8
28	---	---	---	5.2	---	---	8.5	3.0	4.8	12.3	6.8	9.3
29	---	---	---	5.9	.5	3.3	6.5	2.5	4.3	11.8	8.0	9.2
30	---	---	---	7.3	.6	4.1	6.1	1.8	3.9	12.1	6.6	9.1
31	---	---	---	5.0	.9	3.0	---	---	---	15.0	8.1	11.3
MONTH	---	---	---	---	---	---	10.8	.0	4.2	15.0	.6	7.0

		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.2	9.9	12.8	21.3	14.7	18.1	26.3	17.8	22.0	---	---	---
2	14.4	9.5	11.8	21.7	13.4	17.6	27.1	18.8	22.9	25.1	---	---
3	14.2	7.9	11.1	22.5	13.9	18.1	26.9	18.7	22.7	23.9	18.1	21.0
4	15.3	10.1	12.8	23.6	14.5	19.0	24.3	20.0	22.1	20.9	17.7	19.4
5	15.9	11.1	13.6	23.4	15.4	19.6	22.0	19.1	20.5	22.6	15.6	19.0
6	14.9	11.2	12.6	23.7	15.6	19.6	---	18.3	---	19.8	16.1	17.6
7	14.1	10.6	12.1	24.5	15.9	20.1	---	---	---	21.0	14.0	17.5
8	13.2	11.6	12.6	25.3	17.0	21.2	---	---	---	22.3	14.2	18.3
9	15.4	9.7	12.5	25.0	17.7	21.3	---	---	---	22.3	14.9	18.7
10	14.5	12.3	13.2	24.1	16.9	20.7	---	---	---	22.3	15.3	18.9
11	15.1	10.2	12.8	22.0	17.4	19.9	---	---	---	19.5	15.7	17.8
12	15.3	11.8	13.7	20.6	16.2	18.3	---	---	---	21.6	15.4	18.4
13	15.2	10.6	12.9	23.7	14.8	18.9	---	---	---	19.0	14.1	17.0
14	14.8	11.4	13.1	24.9	15.4	20.1	---	---	---	19.5	13.4	16.6
15	15.2	10.3	12.9	25.9	16.3	21.2	---	---	---	17.1	14.0	15.6
16	15.1	10.4	12.6	24.3	17.6	21.2	---	---	---	18.9	13.4	16.0
17	18.2	11.0	14.4	25.6	17.0	21.2	---	---	---	18.8	11.7	15.4
18	18.0	13.3	15.8	24.4	18.7	21.4	---	---	---	16.4	13.7	14.6
19	20.1	13.8	16.8	24.9	18.0	20.9	---	---	---	13.7	12.6	13.2
20	20.8	14.9	17.9	25.4	17.4	21.3	---	---	---	14.3	11.5	12.8
21	22.4	15.2	18.6	26.4	17.3	21.7	---	---	---	13.4	11.3	12.6
22	22.0	15.8	19.1	26.7	17.6	22.2	---	---	---	12.5	10.8	11.7
23	22.1	15.3	18.9	25.7	20.4	23.1	---	---	---	13.9	10.5	12.0
24	21.9	15.8	18.9	26.9	18.8	22.6	---	---	---	15.6	9.2	12.4
25	21.7	14.8	18.4	27.0	18.4	22.8	---	---	---	17.1	10.3	13.7
26	22.6	14.8	18.7	26.5	18.8	22.8	---	---	---	15.2	13.3	13.8
27	23.0	16.4	19.6	24.1	20.0	22.2	---	---	---	15.6	12.2	13.6
28	22.9	16.3	19.6	23.8	18.5	21.0	---	---	---	14.8	9.2	12.0
29	22.9	15.1	19.1	23.9	19.2	21.3	---	---	---	15.4	8.8	12.1
30	22.7	14.7	18.8	24.1	18.9	21.3	---	---	---	16.2	9.7	12.9
31	---	---	---	24.4	19.1	21.3	---	---	---	---	---	---
MONTH	23.0	7.9	15.3	27.0	13.4	20.7	---	---	---	---	---	---

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 1996 TO SEPTEMBER 1997

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							
30...	1320	0.0	260	7.6	5.5	--	8.6
30...	1321	2.0	259	7.7	5.5	--	8.6
30...	1322	3.0	259	7.8	5.5	--	8.6
30...	1323	4.0	261	7.8	5.5	--	8.6
30...	1324	5.0	265	7.8	5.0	--	8.6
30...	1325	6.0	267	7.8	5.0	--	8.5
30...	1326	7.0	267	7.8	5.0	--	8.5
30...	1327	8.0	268	7.8	5.0	--	8.5
30...	1328	8.5	272	7.8	5.0	--	8.5
APR							
30...	1014	--	--	--	--	6.0	--
30...	1015	0.0	231	6.5	4.0	--	10.0
30...	1016	1.0	230	6.7	4.0	--	9.9
30...	1017	2.0	231	6.8	4.0	--	10.0
30...	1018	3.0	230	6.9	4.0	--	9.9
30...	1019	4.0	230	6.9	4.0	--	9.9
30...	1020	5.0	231	7.0	4.0	--	9.9
SEP							
03...	1414	--	--	--	--	48.0	--
03...	1415	0.0	325	8.3	22.0	--	7.4
03...	1416	3.0	324	8.3	22.0	--	7.8
03...	1417	6.0	323	8.3	21.5	--	8.5
03...	1418	9.0	327	8.3	21.5	--	9.4
03...	1419	10.0	331	8.3	21.5	--	9.8

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 1996 TO SEPTEMBER 1997

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							
30...	1329	--	--	--	--	30.0	--
30...	1330	0.0	263	7.9	5.5	--	7.8
30...	1331	1.0	263	7.9	5.5	--	8.6
30...	1332	2.0	262	7.9	5.5	--	8.6
30...	1333	3.0	262	7.9	5.5	--	8.6
30...	1334	4.0	262	7.9	5.0	--	8.4
30...	1335	5.0	268	7.9	5.0	--	8.5
30...	1336	6.0	272	7.9	5.0	--	8.4
30...	1337	7.0	281	7.9	5.0	--	8.5
30...	1338	8.0	284	7.9	5.0	--	8.5
30...	1339	9.0	284	7.9	5.0	--	8.6
APR							
30...	1024	--	--	--	--	6.0	--
30...	1025	0.0	235	7.4	2.5	--	10.5
30...	1026	1.0	235	7.4	2.5	--	10.5
30...	1027	2.0	236	7.4	2.5	--	10.5
30...	1028	3.0	236	7.4	2.5	--	10.5
30...	1029	4.0	236	7.4	2.5	--	10.5
30...	1030	5.0	236	7.4	2.5	--	10.5
30...	1032	6.0	235	7.5	2.5	--	10.4
SEP							
03...	1429	--	--	--	--	54.0	--
03...	1430	0.0	326	8.4	22.0	--	7.2
03...	1431	2.0	326	8.3	21.5	--	7.3
03...	1432	4.0	334	8.4	21.5	--	7.8
03...	1433	6.0	328	8.4	21.5	--	7.4

ELKHEAD RESERVOIR NEAR CRAIG, CO--Continued

WATER-QUALITY RECORDS

403506107214500 ELKHEAD RESERVOIR SITE 1B--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	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)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
OCT												
30...	1345	1.0	0.003	<0.005	0.020	0.3	0.2	0.033	0.004	<0.001	e0.3	<0.1
30...	1350	8.0	0.001	<0.005	0.021	0.5	0.2	0.038	0.019	<0.001	e0.3	<0.1
APR												
30...	1040	5.0	0.002	0.200	0.007	1.0	0.3	0.079	0.023	0.019	e1.6	<0.1
30...	1100	2.0	0.002	0.220	0.014	1.0	0.3	0.067	0.029	0.023	e1.5	<0.1
SEP												
03...	1450	2.0	0.002	0.005	<0.002	0.5	0.3	0.019	0.004	0.001	e0.9	<0.1
03...	1455	5.0	<0.001	0.005	<0.002	0.4	0.2	0.016	0.004	0.002	e0.9	<0.1

e-Estimated.

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 1996 TO SEPTEMBER 1997

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT							
30...	1214	--	--	--	--	42.0	--
30...	1215	0.0	230	7.8	7.0	--	7.8
30...	1216	3.0	229	7.8	7.0	--	7.8
30...	1217	6.0	230	7.8	7.0	--	7.8
30...	1218	9.0	230	7.8	7.0	--	7.8
30...	1219	12.0	230	7.8	7.0	--	7.7
30...	1220	13.0	230	7.8	7.0	--	7.7
APR							
30...	1154	--	--	--	--	6.0	--
30...	1155	0.0	269	7.7	6.5	--	9.1
30...	1156	3.0	269	7.7	6.0	--	9.1
30...	1157	6.0	262	7.7	6.0	--	9.2
30...	1158	9.0	258	7.7	6.0	--	9.2
30...	1159	12.0	248	7.7	6.0	--	9.2
30...	1200	15.0	246	7.7	6.0	--	9.2
30...	1201	18.0	242	7.7	6.0	--	9.3
30...	1202	19.5	240	7.7	5.5	--	9.2
SEP							
03...	1229	--	--	--	--	102	--
03...	1230	0.0	291	8.1	20.5	--	7.1
03...	1231	3.0	293	8.2	20.0	--	7.1
03...	1232	6.0	295	8.1	20.0	--	7.0
03...	1233	9.0	289	8.1	19.5	--	6.7
03...	1234	12.0	285	8.0	19.0	--	6.0
03...	1235	15.0	292	7.8	18.5	--	4.3
03...	1236	18.0	271	7.4	16.0	--	1.5
03...	1237	21.0	267	7.2	14.5	--	0.2
03...	1238	24.0	246	7.1	12.5	--	0.2
03...	1239	27.0	229	7.1	11.0	--	0.3
03...	1240	30.0	223	7.0	10.5	--	0.4
03...	1241	31.0	220	7.0	9.5	--	0.4

ELKHEAD RESERVOIR NEAR CRAIG, CO--Continued

WATER-QUALITY RECORDS

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 1996 TO SEPTEMBER 1997

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							
30...	1223	--	--	--	--	46.0	--
30...	1224	0.0	229	7.8	7.0	--	7.7
30...	1225	3.0	230	7.8	7.0	--	7.7
30...	1226	6.0	231	7.8	7.0	--	7.8
30...	1227	9.0	231	7.8	7.0	--	7.7
30...	1228	12.0	231	7.8	7.0	--	7.6
30...	1229	15.0	231	7.8	6.5	--	7.6
30...	1230	18.0	231	7.8	6.5	--	7.6
30...	1231	21.0	231	7.8	6.5	--	7.7
30...	1232	24.0	231	7.8	6.5	--	7.6
30...	1233	27.0	231	7.8	6.5	--	7.6
30...	1234	30.0	231	7.8	6.5	--	7.7
30...	1235	33.0	233	7.8	6.5	--	7.7
30...	1236	36.0	233	7.8	6.5	--	7.7
30...	1237	39.0	233	7.8	6.5	--	7.7
30...	1238	41.0	233	7.8	6.5	--	7.8
APR							
30...	1204	--	--	--	--	6.0	--
30...	1205	0.0	275	7.7	6.5	--	9.2
30...	1206	3.0	277	7.7	6.0	--	9.2
30...	1207	6.0	276	7.7	6.0	--	9.2
30...	1208	9.0	273	7.7	6.0	--	9.2
30...	1209	12.0	261	7.7	6.0	--	9.3
30...	1210	15.0	253	7.7	6.0	--	9.2
30...	1211	18.0	252	7.7	6.0	--	9.2
30...	1212	21.0	244	7.7	6.0	--	9.3
30...	1213	24.0	242	7.7	5.5	--	9.3
30...	1214	27.0	241	7.7	5.5	--	9.3
30...	1215	30.0	239	7.7	5.5	--	9.3
30...	1216	33.0	238	7.7	5.5	--	9.3
30...	1217	36.0	238	7.7	5.5	--	9.3
30...	1218	37.5	238	7.7	5.5	--	9.1
SEP							
03...	1304	--	--	--	--	96.0	--
03...	1305	0.0	291	8.2	20.5	--	7.7
03...	1306	3.0	291	8.2	20.5	--	7.6
03...	1307	6.0	294	8.2	20.5	--	8.4
03...	1308	9.0	295	8.2	20.0	--	9.2
03...	1309	12.0	291	8.1	20.0	--	8.9
03...	1310	15.0	286	8.0	19.0	--	8.8
03...	1311	18.0	292	7.7	18.5	--	7.1
03...	1312	21.0	286	7.4	17.0	--	2.9
03...	1313	24.0	260	7.3	15.0	--	2.5
03...	1314	27.0	244	7.1	13.0	--	0.7
03...	1315	30.0	236	7.1	11.5	--	0.5
03...	1316	33.0	228	7.0	10.5	--	0.9
03...	1317	36.0	219	7.0	9.5	--	0.6
03...	1318	39.0	217	7.0	9.0	--	0.3
03...	1319	42.0	215	7.0	9.0	--	0.3
03...	1320	45.0	215	7.0	9.0	--	0.3

ELKHEAD RESERVOIR NEAR CRAIG, CO--Continued

WATER-QUALITY RECORDS

403437107223300 ELKHEAD RESERVOIR SITE 2B--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	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)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
OCT												
30...	1240	3.0	0.005	0.017	0.004	0.3	0.2	0.023	0.004	<0.001	1.5	<0.1
30...	1245	39.0	0.003	0.014	0.010	0.3	0.2	0.018	0.003	<0.001	e0.2	<0.1
APR												
30...	1220	30.0	0.002	0.190	0.011	1.0	0.3	0.036	0.029	0.027	<0.1	<0.1
30...	1240	3.0	0.001	0.180	0.005	0.6	0.3	0.150	0.021	0.019	e1.5	<0.1
SEP												
03...	1330	6.0	0.001	<0.005	<0.002	0.4	<0.2	0.010	0.003	0.001	e0.8	<0.1
03...	1340	39.0	<0.001	0.100	0.003	0.6	0.2	0.056	0.005	0.003	e0.5	<0.1

e-Estimated.

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 1996 TO SEPTEMBER 1997

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT							
30...	1159	--	--	--	--	36.0	--
30...	1200	0.0	230	7.8	7.5	--	7.8
30...	1201	3.0	230	7.8	7.0	--	7.7
30...	1202	6.0	230	7.8	7.0	--	7.7
30...	1203	9.0	231	7.8	7.0	--	7.6
30...	1204	12.0	231	7.8	7.0	--	7.6
30...	1205	15.0	231	7.8	7.0	--	7.6
30...	1206	18.0	230	7.8	7.0	--	7.6
30...	1207	21.0	230	7.8	7.0	--	7.6
30...	1208	24.0	230	7.8	7.0	--	7.6
30...	1209	27.0	231	7.8	6.5	--	7.6
30...	1210	30.0	232	7.8	6.5	--	7.7
30...	1211	33.0	232	7.8	6.5	--	7.7
30...	1212	36.0	233	7.8	6.5	--	7.7
APR							
30...	1139	--	--	--	--	6.0	--
30...	1140	0.0	298	7.8	6.5	--	9.2
30...	1141	3.0	299	7.8	6.5	--	9.2
30...	1142	6.0	298	7.8	6.5	--	9.2
30...	1143	9.0	299	7.8	6.5	--	9.2
30...	1144	12.0	299	7.8	6.5	--	9.2
30...	1145	15.0	299	7.7	6.5	--	9.1
30...	1146	18.0	298	7.7	6.5	--	9.1
30...	1147	21.0	298	7.7	6.5	--	9.1
30...	1148	22.0	252	7.8	6.0	--	9.2

ELKHEAD RESERVOIR NEAR CRAIG, CO--Continued

WATER-QUALITY RECORDS

403435107222900 ELKHEAD RESERVOIR SITE 2C--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS-SOLVED (MG/L) (00300)
SEP							
03...	1249	--	--	--	--	102	--
03...	1250	0.0	291	8.2	20.5	--	7.3
03...	1251	3.0	292	8.2	20.5	--	7.7
03...	1252	6.0	293	8.2	20.5	--	8.1
03...	1253	9.0	295	8.2	20.0	--	8.4
03...	1254	12.0	293	8.1	20.0	--	8.1
03...	1255	15.0	290	7.9	19.0	--	7.4
03...	1256	18.0	292	7.7	18.0	--	5.2
03...	1257	21.0	283	7.5	17.0	--	3.0
03...	1258	24.0	258	7.3	15.0	--	1.5
03...	1259	27.0	244	7.2	13.0	--	0.4
03...	1300	30.0	231	7.1	11.0	--	0.4
03...	1301	33.0	218	7.0	10.0	--	0.5
03...	1302	36.0	217	7.0	9.0	--	0.4

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 1996 TO SEPTEMBER 1997

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT							
30...	1044	--	--	--	--	42.0	--
30...	1045	0.0	226	7.7	7.5	--	7.4
30...	1046	3.0	226	7.7	7.5	--	7.4
30...	1047	6.0	226	7.7	7.0	--	7.4
30...	1048	9.0	227	7.7	7.0	--	7.4
30...	1049	12.0	226	7.7	7.0	--	7.2
30...	1050	15.0	226	7.7	7.0	--	7.2
30...	1051	18.0	227	7.7	7.0	--	7.3
30...	1052	20.0	226	7.7	7.0	--	7.3
APR							
30...	1444	--	--	--	--	6.0	--
30...	1445	0.0	401	7.3	5.0	--	8.4
30...	1446	3.0	405	7.4	5.0	--	8.3
30...	1447	6.0	395	7.4	5.0	--	8.3
30...	1448	9.0	397	7.4	5.0	--	8.3
30...	1449	12.0	427	7.4	4.5	--	8.0
30...	1450	15.0	453	7.4	4.5	--	7.6
30...	1451	18.0	448	7.4	4.0	--	7.6
30...	1452	21.0	416	7.4	4.5	--	7.7
30...	1453	22.5	418	7.4	4.5	--	7.7
SEP							
03...	0944	--	--	--	--	114	--
03...	0945	0.0	284	8.2	19.5	--	7.6
03...	0946	3.0	285	8.1	19.5	--	8.1
03...	0947	6.0	285	8.1	19.5	--	8.8
03...	0948	9.0	285	8.1	19.5	--	9.6
03...	0949	12.0	285	8.1	19.5	--	9.4
03...	0950	15.0	285	8.1	19.5	--	8.9
03...	0951	18.0	285	8.1	19.5	--	9.2
03...	0952	21.0	285	8.1	19.0	--	9.3
03...	0953	24.0	269	7.5	17.0	--	7.7
03...	0954	27.0	238	7.3	13.5	--	6.8
03...	0955	30.0	218	7.2	11.5	--	6.8
03...	0956	33.0	211	7.2	10.5	--	6.9

ELKHEAD RESERVOIR NEAR CRAIG, CO--Continued

WATER-QUALITY RECORDS

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 1996 TO SEPTEMBER 1997

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							
30...	1059	--	--	--	--	37.0	--
30...	1100	0.0	226	7.7	7.5	--	7.3
30...	1101	3.0	226	7.7	7.5	--	7.2
30...	1102	6.0	226	7.7	7.5	--	7.1
30...	1103	9.0	227	7.7	7.0	--	7.0
30...	1104	12.0	226	7.7	7.0	--	6.9
30...	1106	15.0	226	7.7	7.0	--	6.9
30...	1107	18.0	227	7.7	7.0	--	7.0
30...	1108	21.0	227	7.7	7.0	--	7.0
30...	1109	24.0	226	7.7	7.0	--	7.2
30...	1110	27.0	226	7.7	7.0	--	7.1
30...	1111	30.0	226	7.7	7.0	--	7.1
30...	1112	33.0	226	7.7	7.0	--	7.1
30...	1113	36.0	227	7.7	7.0	--	6.9
30...	1114	39.0	227	7.7	7.0	--	6.9
30...	1115	42.0	228	7.7	7.0	--	6.9
30...	1116	45.0	228	7.7	7.0	--	7.1
30...	1117	48.0	230	7.7	7.0	--	7.1
30...	1118	51.0	231	7.7	7.0	--	7.1
30...	1119	54.5	232	7.8	7.0	--	7.2
APR							
30...	1549	--	--	--	--	6.0	--
30...	1550	0.0	391	7.6	5.0	--	9.0
30...	1551	3.0	390	7.5	5.0	--	9.0
30...	1552	6.0	390	7.5	5.0	--	9.2
30...	1553	9.0	391	7.5	5.0	--	9.3
30...	1554	12.0	391	7.5	5.0	--	9.0
30...	1555	15.0	395	7.5	5.0	--	8.6
30...	1556	18.0	397	7.5	5.0	--	8.6
30...	1557	21.0	401	7.5	5.0	--	8.5
30...	1558	24.0	404	7.5	5.0	--	8.5
30...	1559	27.0	415	7.5	5.0	--	8.4
30...	1600	30.0	409	7.5	4.5	--	8.3
30...	1601	33.0	338	7.5	5.0	--	8.4
30...	1602	36.0	395	7.5	4.5	--	8.5
30...	1603	39.0	403	7.5	4.5	--	8.2
30...	1604	42.0	433	7.4	4.0	--	8.0
30...	1605	45.0	452	7.4	4.0	--	7.6
30...	1606	48.0	406	7.4	4.5	--	7.5
30...	1607	51.0	361	7.5	4.5	--	8.0
30...	1608	54.0	325	7.5	5.0	--	8.2
30...	1609	57.0	312	7.5	5.0	--	8.5
30...	1610	60.0	298	7.5	5.0	--	8.7
SEP							
03...	1005	--	--	--	--	114	--
03...	1006	0.0	285	8.2	20.0	--	7.5
03...	1007	3.0	285	8.1	20.0	--	7.9
03...	1008	6.0	285	8.1	19.5	--	8.3
03...	1009	9.0	285	8.1	19.5	--	8.8
03...	1010	12.0	285	8.1	19.5	--	9.0
03...	1011	15.0	286	8.1	19.5	--	8.6
03...	1012	18.0	284	8.1	19.5	--	7.0
03...	1013	21.0	274	7.6	17.5	--	4.8
03...	1014	24.0	223	7.1	13.5	--	2.0
03...	1015	27.0	212	7.1	12.0	--	2.5
03...	1016	30.0	204	7.1	10.0	--	3.1
03...	1017	33.0	200	7.2	9.0	--	3.4
03...	1018	36.0	200	7.2	8.5	--	3.8
03...	1019	39.0	203	7.1	8.5	--	3.2
03...	1020	42.0	202	7.1	8.5	--	3.2
03...	1021	45.0	203	7.1	8.0	--	3.3
03...	1022	48.0	205	7.1	8.0	--	2.5
03...	1023	51.0	207	7.1	8.0	--	1.8
03...	1024	54.0	208	7.0	7.5	--	1.4
03...	1025	57.0	210	7.0	7.5	--	1.1
03...	1026	60.0	210	7.0	7.5	--	1.1
03...	1027	62.0	210	7.0	7.5	--	1.0

ELKHEAD RESERVOIR NEAR CRAIG, CO--Continued

WATER-QUALITY RECORDS

403333107230100 ELKHEAD RESERVOIR SITE 3B--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	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)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
OCT												
30...	1105	3.0	0.003	0.016	0.002	0.3	0.2	0.022	0.004	<0.001	e0.2	<0.1
30...	1120	51.0	0.001	0.014	0.006	0.3	0.2	0.020	0.038	<0.001	e0.1	<0.1
APR												
30...	1615	50.0	0.002	0.190	0.019	0.8	0.3	0.060	0.023	0.022	<0.1	<0.1
30...	1645	8.0	0.002	0.190	0.016	0.5	0.3	0.100	0.019	0.015	e0.4	<0.1
SEP												
03...	1145	54.0	0.002	0.220	<0.002	0.6	0.2	0.110	0.021	0.016	e0.4	<0.1
03...	1155	6.0	0.001	0.005	<0.002	0.3	<0.2	0.009	0.003	0.001	e0.6	<0.1

e-Estimated.

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 1996 TO SEPTEMBER 1997

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	pH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT							
30...	1029	--	--	--	--	42.0	--
30...	1030	0.0	227	7.7	7.5	--	7.2
30...	1031	3.0	227	7.7	7.5	--	7.6
30...	1032	6.0	227	7.7	7.5	--	7.5
30...	1033	9.0	226	7.7	7.0	--	7.6
30...	1034	12.0	226	7.7	7.0	--	7.7
30...	1035	15.0	227	7.7	7.0	--	7.7
30...	1036	18.0	227	7.7	7.0	--	7.8
30...	1037	21.0	227	7.7	7.0	--	7.8
30...	1038	24.0	227	7.7	7.0	--	7.7
30...	1039	25.0	227	7.7	7.0	--	7.7
APR							
30...	1415	--	--	--	--	6.0	--
30...	1416	0.0	360	7.1	6.0	--	9.0
30...	1417	3.0	360	7.2	6.0	--	8.9
30...	1418	6.0	362	7.3	6.0	--	8.9
30...	1419	9.0	376	7.3	6.0	--	8.8
30...	1420	12.0	383	7.4	5.5	--	8.7
30...	1421	15.0	388	7.4	5.5	--	8.6
30...	1422	18.0	400	7.4	5.5	--	8.6
30...	1423	21.0	404	7.4	5.5	--	8.5
30...	1424	22.0	405	7.4	5.0	--	8.4
SEP							
03...	0919	--	--	--	--	126	--
03...	0920	0.0	286	7.9	19.5	--	7.7
03...	0921	3.0	285	7.9	19.5	--	8.1
03...	0922	6.0	286	7.9	19.5	--	9.1
03...	0923	9.0	285	8.1	19.5	--	8.5
03...	0924	12.0	285	8.1	19.5	--	8.7
03...	0925	15.0	285	8.1	19.5	--	8.5
03...	0926	18.0	286	8.0	19.5	--	8.1
03...	0927	21.0	262	7.4	16.5	--	4.6
03...	0928	24.0	232	7.2	14.0	--	3.2
03...	0929	27.0	219	7.2	12.0	--	3.6
03...	0930	30.0	210	7.1	10.5	--	3.5
03...	0931	33.0	207	7.1	9.5	--	3.7
03...	0932	36.0	205	7.1	9.0	--	3.9
03...	0933	39.0	206	7.1	8.5	--	4.4
03...	0934	42.0	205	7.1	8.5	--	3.4
03...	0935	45.0	205	7.1	8.0	--	3.2
03...	0936	48.0	206	7.0	8.0	--	3.0
03...	0937	51.0	208	7.0	8.0	--	2.5
03...	0938	54.0	209	7.0	7.5	--	2.2
03...	0939	56.0	209	7.0	7.5	--	1.8

403318107230100 ELKHEAD CREEK BELOW ELKHEAD RESERVOIR, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°33'18", long 107°23'01", in SE1/4SW1/4 sec. 16, T.7 N., R.89 W., Moffat County, Hydrologic Unit 14050001, 300 ft downstream from Elkhead Dam, and 11 mi northeast of Craig.

PERIOD OF RECORD.--April to June 1997 (discontinued).

REMARKS.--Prior to April 1997 no previous water-quality at this site.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
APR							
17...	1700	324	--	--	59	52	97
30...	1745	933	--	5.0	97	244	90
MAY							
23...	1345	965	129	11.5	158	412	97
30...	1015	1710	152	10.0	103	476	99
JUN							
18...	1245	244	172	19.0	18	12	91

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	3.3	15	e17	18	20	310	782	984	50	14	5.9
2	1.8	3.3	15	e18	18	19	240	643	978	45	13	5.8
3	2.3	3.3	19	e15	21	20	234	550	915	41	12	5.8
4	2.2	3.4	16	e19	19	20	328	490	754	40	8.0	5.4
5	2.0	4.0	18	e18	19	19	311	802	666	37	10	e5.5
6	2.0	3.7	12	e20	21	18	e204	1100	593	34	20	e5.4
7	2.0	3.6	14	e21	19	18	155	1620	516	31	26	e5.3
8	2.0	3.9	12	e19	e25	18	147	1840	483	27	23	e4.5
9	1.9	4.7	13	e21	e23	19	183	1510	475	25	18	e3.8
10	1.9	6.2	14	e20	e21	20	217	1550	427	23	20	e4.1
11	1.9	7.6	18	e19	20	21	156	1580	413	21	24	e4.7
12	1.9	8.3	19	e21	18	22	118	1760	361	22	27	e6.2
13	1.9	9.2	19	e19	19	24	103	1510	343	21	28	e6.0
14	2.0	11	20	e20	23	25	98	1580	321	20	26	e5.7
15	2.0	15	e18	e19	19	27	96	1590	296	18	22	e7.0
16	2.3	16	e19	e21	18	34	166	1620	285	16	18	e7.5
17	2.5	14	e21	e22	18	47	342	1660	281	14	14	e6.3
18	2.4	14	e19	e22	18	61	528	1680	248	14	11	e12
19	2.6	14	e19	e23	18	91	672	1450	225	17	11	e90
20	3.1	14	e17	e22	19	157	847	1280	206	19	8.3	e153
21	2.8	16	e18	e23	19	239	914	1140	186	17	7.9	e214
22	2.7	21	e19	e24	21	285	607	1100	168	15	7.0	121
23	2.8	40	e17	e23	19	345	491	970	143	14	6.6	61
24	2.9	44	e18	e25	19	409	507	988	124	18	6.6	39
25	3.9	35	e17	e24	21	236	474	1110	109	15	5.4	25
26	4.3	27	e17	e21	19	189	505	993	95	13	5.2	22
27	3.4	22	e16	e20	20	245	625	857	83	11	6.4	32
28	3.3	16	e19	e19	20	244	955	723	73	9.9	6.5	42
29	3.9	13	e20	20	---	257	1720	894	65	9.9	5.8	31
30	3.4	16	e15	19	---	208	1180	1540	57	10	5.4	23
31	3.4	---	e16	18	---	250	---	1020	---	12	6.1	---
TOTAL	79.5	412.5	529	632	552	3607	13433	37932	10873	679.8	422.2	959.9
MEAN	2.56	13.8	17.1	20.4	19.7	116	448	1224	362	21.9	13.6	32.0
MAX	4.3	44	21	25	25	409	1720	1840	984	50	28	214
MIN	1.8	3.3	12	15	18	18	96	490	57	9.9	5.2	3.8
AC-FT	158	818	1050	1250	1090	7150	26640	75240	21570	1350	837	1900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1997, BY WATER YEAR (WY)

MEAN	4.12	13.9	15.6	17.6	18.6	85.0	438	993	241	15.0	8.10	12.3
MAX	5.67	14.1	17.1	20.4	19.7	116	448	1224	362	21.9	13.6	32.0
(WY)	1996	1996	1997	1997	1997	1997	1997	1997	1997	1997	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1995 - 1997	
ANNUAL TOTAL	44139.3		70111.9			
ANNUAL MEAN	121		192		156	
HIGHEST ANNUAL MEAN					192	1997
LOWEST ANNUAL MEAN					121	1996
HIGHEST DAILY MEAN	1470	May 9	1840	May 8	1840	May 8 1997
LOWEST DAILY MEAN	1.4	Sep 2	1.8	Oct 2	1.4	Sep 2 1996
ANNUAL SEVEN-DAY MINIMUM	1.5	Aug 29	1.9	Oct 7	1.5	Aug 29 1996
INSTANTANEOUS PEAK FLOW			2430	May 8	2430	May 8 1997
INSTANTANEOUS PEAK STAGE			[a]6.83	May 8	[a]6.83	May 8 1997
ANNUAL RUNOFF (AC-FT)	87550		139100		113200	
10 PERCENT EXCEEDS	427		735		486	
50 PERCENT EXCEEDS	16		20		17	
90 PERCENT EXCEEDS	2.0		3.9		2.5	

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, Apr. 14 to May 23, and Sept. 6-9, which are poor. Published daily water-temperature records are fair except for the period July 24 to Sept. 30, which is poor. Periods of missing or deleted record are due to instrument malfunction or sensor fouling except for the period Oct. 24 to Mar. 28, when the monitor was removed for winter period.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 562 microsiemens, Apr. 19, 1997: 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, 562 microsiemens, Apr. 19: minimum recorded, 132 microsiemens, May 21-22.
WATER TEMPERATURE: Maximum recorded, 27.1°C, Aug. 25: minimum recorded, 1.5°C, Apr. 12.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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												
31...	1245	3.3	300	8.3	6.0	8.3	10.6	K23	K31	110	27	9.9
NOV												
29...	1400	13	258	8.4	2.5	6.5	11.1	--	--	110	27	9.4
DEC												
26...	1400	17	269	8.2	0.0	3.9	11.3	--	--	110	27	10
JAN												
24...	1415	25	285	8.1	0.0	3.7	11.2	--	--	110	28	9.6
FEB												
18...	1115	18	283	8.3	2.5	3.2	11.0	--	--	100	26	9.3
MAR												
28...	1645	180	378	8.0	4.5	9.8	11.1	64	46	140	34	13
APR												
14...	1535	100	423	8.8	6.5	23	10.4	--	--	150	35	15
MAY												
01...	1015	779	332	8.0	6.5	73	10.8	K18	K3	120	29	12
22...	1500	1150	128	8.0	10.0	67	10.8	--	--	52	14	4.3
JUL												
23...	1100	14	289	8.5	23.5	5.9	8.2	--	--	99	25	8.9
AUG												
29...	1500	6.8	305	8.5	23.5	7.1	8.4	--	--	120	29	11
SEP												
03...	1630	5.9	316	8.5	24.5	16	7.9	100	--	120	29	10

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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											
31...	17	0.7	1.3	103	42	4.1	0.1	9.8	174	0.24	1.55
NOV											
29...	13	0.5	1.4	96	32	2.2	0.1	9.4	152	0.21	5.13
DEC											
26...	14	0.6	1.4	99	36	2.4	0.2	10	161	0.22	7.45
JAN											
24...	14	0.6	1.1	103	37	2.4	0.1	11	165	0.22	11.0
FEB											
18...	16	0.7	1.4	102	39	2.5	0.1	9.9	165	0.22	7.89
MAR											
28...	23	0.9	1.7	113	74	3.3	0.2	10	228	0.31	111
APR											
14...	29	1.0	2.2	105	100	3.6	0.2	8.0	258	0.35	69.8
MAY											
01...	20	0.8	1.9	88	78	2.7	0.1	8.6	206	0.28	433
22...	4.5	0.3	1.0	49	13	0.8	<0.1	9.3	76	0.10	237
JUL											
23...	13	0.6	1.4	93	35	2.8	0.1	11	153	0.21	5.78
AUG											
29...	18	0.7	1.5	107	43	3.7	0.2	9.7	180	0.25	3.30
SEP											
03...	19	0.8	1.5	112	45	3.6	0.1	9.5	185	0.25	2.95

K-Based on non-ideal colony count.

09246400 ELKHEAD CREEK BELOW MAYNARD GULCH, NEAR CRAIG, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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										
31...	0.03	0.19	0.080	0.20	0.20	<0.01	<0.01	<0.01	6.2	5.3
NOV										
29...	<0.01	<0.05	0.020	0.30	0.30	<0.01	<0.01	<0.01	--	--
DEC										
26...	<0.01	0.05	0.020	0.30	0.20	0.01	<0.01	<0.01	--	--
JAN										
24...	0.01	0.07	<0.015	<0.20	0.20	<0.01	<0.01	<0.01	--	--
FEB										
18...	<0.01	<0.05	<0.015	0.30	0.20	0.03	<0.01	<0.01	--	--
MAR										
28...	<0.01	0.13	<0.015	0.30	<0.20	0.01	<0.01	<0.01	5.4	5.5
APR										
14...	<0.01	0.09	<0.015	0.45	0.30	0.04	0.01	<0.01	--	--
MAY										
01...	<0.01	0.24	<0.015	0.60	0.22	0.12	<0.01	0.02	11	1.4
22...	<0.01	0.17	<0.015	0.45	0.34	0.16	0.01	0.01	--	--
JUL										
23...	<0.01	<0.05	<0.015	0.41	0.26	0.02	<0.01	<0.01	--	--
AUG										
29...	<0.01	<0.05	<0.015	0.32	0.31	0.01	<0.01	<0.01	--	--
SEP										
03...	<0.01	<0.05	<0.015	0.33	0.37	0.01	0.02	<0.01	6.1	5.6

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, 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)
OCT											
31...	350	<1	<1	<100	40	<10	10	<1	<1	<1	<1
MAY											
01...	3500	<1	<1	<100	40	<10	28	<1	<1	4	<1

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)
OCT											
31...	<1	2	1	540	9	<1	<1	<10	30	19	<0.1
MAY											
01...	1	4	1	2900	25	2	<1	10	60	10	<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)	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										
31...	<0.1	<1	2	2	<1	<1	<1	270	<10	5
MAY										
01...	0.1	1	5	1	<1	<1	<1	280	<10	<3

09246400 ELKHEAD CREEK BELOW MAYNARD GULCH, NEAR CRAIG, CO--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)
NOV					
29...	1400	12	11	0.36	--
DEC					
26...	1400	17	5	0.23	--
JAN					
24...	1415	25	8	0.55	--
FEB					
18...	1115	18	20	0.96	--
MAR					
28...	1645	180	21	10	--
APR					
14...	1535	100	23	6.3	--
MAY					
01...	1015	779	180	379	66
22...	1500	1150	231	717	80
JUL					
14...	0930	21	12	0.67	--
SEP					
03...	1630	5.9	26	0.41	--

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	291	283	288	---	---	---	---	---	---	---	---	---
2	292	285	289	---	---	---	---	---	---	---	---	---
3	290	283	286	---	---	---	---	---	---	---	---	---
4	291	283	287	---	---	---	---	---	---	---	---	---
5	291	282	287	---	---	---	---	---	---	---	---	---
6	292	284	288	---	---	---	---	---	---	---	---	---
7	291	285	288	---	---	---	---	---	---	---	---	---
8	293	281	289	---	---	---	---	---	---	---	---	---
9	294	279	290	---	---	---	---	---	---	---	---	---
10	296	289	292	---	---	---	---	---	---	---	---	---
11	298	292	295	---	---	---	---	---	---	---	---	---
12	299	294	296	---	---	---	---	---	---	---	---	---
13	301	294	298	---	---	---	---	---	---	---	---	---
14	307	296	299	---	---	---	---	---	---	---	---	---
15	304	296	300	---	---	---	---	---	---	---	---	---
16	303	298	300	---	---	---	---	---	---	---	---	---
17	300	295	298	---	---	---	---	---	---	---	---	---
18	301	297	299	---	---	---	---	---	---	---	---	---
19	305	293	300	---	---	---	---	---	---	---	---	---
20	295	288	293	---	---	---	---	---	---	---	---	---
21	302	293	297	---	---	---	---	---	---	---	---	---
22	303	294	298	---	---	---	---	---	---	---	---	---
23	303	297	300	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

09246400 ELKHEAD CREEK BELOW MAYNARD GULCH, NEAR CRAIG, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	409	400	405	332	279	312
2	---	---	---	---	---	---	427	407	419	321	298	311
3	---	---	---	---	---	---	423	407	418	324	293	299
4	---	---	---	---	---	---	425	408	417	356	313	322
5	---	---	---	---	---	---	428	415	423	330	310	318
6	---	---	---	---	---	---	428	413	420	332	311	322
7	---	---	---	---	---	---	424	412	417	320	292	313
8	---	---	---	---	---	---	416	398	402	316	290	307
9	---	---	---	---	---	---	402	388	396	291	259	277
10	---	---	---	---	---	---	412	389	402	262	229	253
11	---	---	---	---	---	---	411	401	407	236	200	221
12	---	---	---	---	---	---	414	401	407	200	183	191
13	---	---	---	---	---	---	412	399	406	185	171	178
14	---	---	---	---	---	---	424	399	412	175	170	172
15	---	---	---	---	---	---	423	410	415	170	161	167
16	---	---	---	---	---	---	419	404	414	167	160	163
17	---	---	---	---	---	---	425	404	413	163	153	157
18	---	---	---	---	---	---	444	407	422	154	148	150
19	---	---	---	---	---	---	562	428	474	152	143	146
20	---	---	---	---	---	---	524	433	479	145	136	141
21	---	---	---	---	---	---	490	395	454	137	132	135
22	---	---	---	---	---	---	462	409	433	136	132	135
23	---	---	---	---	---	---	447	385	413	137	---	---
24	---	---	---	---	---	---	410	386	394	---	---	---
25	---	---	---	---	---	---	386	365	377	---	---	---
26	---	---	---	---	---	---	367	309	351	---	---	---
27	---	---	---	---	---	---	366	307	342	---	---	---
28	---	---	---	---	---	---	364	268	342	---	---	---
29	---	---	---	394	370	385	348	271	315	---	---	---
30	---	---	---	392	371	383	347	272	302	---	---	---
31	---	---	---	412	389	402	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	562	268	403	---	---	---
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	231	222	227	285	281	283	319	304	309
2	---	---	---	232	224	228	287	281	284	321	311	315
3	---	---	---	232	221	228	291	284	287	320	308	315
4	---	---	---	233	226	231	294	287	291	320	314	317
5	148	145	146	236	230	234	300	290	296	320	312	316
6	145	144	144	240	233	237	292	265	277	321	314	317
7	146	144	145	241	237	239	271	265	268	---	316	---
8	147	144	147	246	239	242	272	266	270	---	316	---
9	147	144	146	249	243	245	274	268	272	---	323	---
10	---	---	---	253	248	250	274	269	271	---	---	---
11	---	---	---	253	249	251	272	268	271	---	---	---
12	---	---	---	258	252	254	273	267	270	---	---	---
13	163	160	162	258	248	254	271	264	268	---	---	---
14	166	160	164	260	252	254	272	265	268	---	---	---
15	168	164	166	259	252	255	271	267	269	---	---	---
16	172	167	169	264	257	260	274	268	270	---	---	---
17	173	171	172	270	262	266	277	271	274	---	---	---
18	181	172	177	273	268	270	282	274	278	---	---	---
19	184	176	181	271	267	270	284	280	282	---	---	---
20	189	180	186	274	266	270	289	283	285	---	---	---
21	192	184	190	279	269	274	304	285	298	297	269	286
22	205	191	199	284	274	279	312	302	308	276	272	274
23	209	196	206	287	282	285	317	309	312	284	274	280
24	211	205	207	284	280	283	319	309	313	292	283	287
25	216	210	214	284	278	281	320	310	315	295	288	291
26	221	215	218	289	283	286	324	315	319	297	294	295
27	225	219	222	294	289	291	325	315	321	301	292	297
28	226	216	223	300	293	296	315	307	312	302	297	299
29	228	211	223	305	290	302	312	305	306	305	288	301
30	229	222	226	293	289	291	310	303	308	313	302	308
31	---	---	---	292	285	288	308	303	305	---	---	---
MONTH	---	---	---	305	221	262	325	264	289	---	---	---

09246400 ELKHEAD CREEK BELOW MAYNARD GULCH, NEAR CRAIG, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.1	10.8	13.2	---	---	---	---	---	---	---	---	---
2	17.4	10.5	13.5	---	---	---	---	---	---	---	---	---
3	15.7	13.1	14.1	---	---	---	---	---	---	---	---	---
4	17.6	11.0	14.1	---	---	---	---	---	---	---	---	---
5	17.2	11.3	14.1	---	---	---	---	---	---	---	---	---
6	16.6	11.5	14.1	---	---	---	---	---	---	---	---	---
7	16.6	11.2	13.8	---	---	---	---	---	---	---	---	---
8	16.4	10.7	13.5	---	---	---	---	---	---	---	---	---
9	16.2	10.7	13.5	---	---	---	---	---	---	---	---	---
10	16.3	10.8	13.6	---	---	---	---	---	---	---	---	---
11	16.0	10.7	13.2	---	---	---	---	---	---	---	---	---
12	16.3	10.4	13.1	---	---	---	---	---	---	---	---	---
13	15.8	10.3	13.0	---	---	---	---	---	---	---	---	---
14	15.0	11.6	12.9	---	---	---	---	---	---	---	---	---
15	13.3	9.0	11.4	---	---	---	---	---	---	---	---	---
16	10.8	6.9	8.9	---	---	---	---	---	---	---	---	---
17	8.2	5.0	6.5	---	---	---	---	---	---	---	---	---
18	9.4	3.5	6.2	---	---	---	---	---	---	---	---	---
19	9.4	4.5	6.6	---	---	---	---	---	---	---	---	---
20	7.3	3.4	5.1	---	---	---	---	---	---	---	---	---
21	7.2	4.0	5.2	---	---	---	---	---	---	---	---	---
22	6.8	2.9	4.5	---	---	---	---	---	---	---	---	---
23	7.2	3.3	4.9	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	3.6	1.9	2.6	6.2	4.8	5.6
2	---	---	---	---	---	---	5.4	1.8	3.0	7.0	4.8	5.7
3	---	---	---	---	---	---	5.7	2.2	3.4	7.8	5.5	6.4
4	---	---	---	---	---	---	3.0	2.1	2.7	8.7	5.6	6.6
5	---	---	---	---	---	---	3.3	1.6	2.4	8.3	5.8	6.8
6	---	---	---	---	---	---	4.5	1.6	2.7	8.4	6.3	7.5
7	---	---	---	---	---	---	6.2	1.7	3.4	8.5	6.6	7.5
8	---	---	---	---	---	---	5.5	2.5	3.6	8.6	6.5	7.6
9	---	---	---	---	---	---	4.6	2.6	3.2	8.4	6.9	7.7
10	---	---	---	---	---	---	5.3	1.9	3.3	8.4	6.5	7.6
11	---	---	---	---	---	---	6.6	1.8	3.5	9.4	6.5	8.0
12	---	---	---	---	---	---	7.6	1.5	3.8	8.7	7.3	8.1
13	---	---	---	---	---	---	8.7	1.7	4.4	9.4	7.3	8.1
14	---	---	---	---	---	---	6.2	2.3	4.1	8.5	7.4	8.0
15	---	---	---	---	---	---	8.2	3.3	5.3	8.4	7.5	7.9
16	---	---	---	---	---	---	8.3	3.0	5.2	9.5	7.1	8.2
17	---	---	---	---	---	---	7.4	3.4	4.8	9.6	7.3	8.3
18	---	---	---	---	---	---	6.0	3.6	4.5	9.7	8.0	9.0
19	---	---	---	---	---	---	6.4	3.2	4.4	10.5	8.9	9.6
20	---	---	---	---	---	---	6.2	3.8	5.0	10.6	9.1	9.9
21	---	---	---	---	---	---	6.3	4.7	5.6	10.8	8.8	9.7
22	---	---	---	---	---	---	6.9	5.7	6.2	10.1	8.7	9.5
23	---	---	---	---	---	---	7.2	5.9	6.4	---	---	---
24	---	---	---	---	---	---	7.6	5.6	6.4	---	---	---
25	---	---	---	---	---	---	8.2	5.6	6.6	---	---	---
26	---	---	---	---	---	---	7.8	5.6	6.8	---	---	---
27	---	---	---	---	---	---	8.4	6.0	7.0	---	---	---
28	---	---	---	---	---	---	7.5	5.7	6.4	---	---	---
29	---	---	---	5.1	1.9	3.1	7.3	6.3	6.7	---	---	---
30	---	---	---	6.5	2.3	3.7	6.8	4.7	5.8	---	---	---
31	---	---	---	4.7	2.0	3.0	---	---	---	13.1	11.1	11.8
MONTH	---	---	---	---	---	---	8.7	1.5	4.6	---	---	---

09246400 ELKHEAD CREEK BELOW MAYNARD GULCH, NEAR CRAIG, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.4	12.8	13.3	22.2	14.6	18.1	25.7	19.3	22.4	24.5	18.2	21.2
2	14.5	13.7	14.1	22.9	13.7	18.1	26.2	20.3	23.2	25.1	19.0	21.9
3	15.0	13.4	14.1	23.4	13.5	18.2	26.7	20.3	23.3	24.1	18.7	21.4
4	15.3	12.9	14.0	24.3	14.1	19.1	23.8	20.7	22.2	21.8	18.7	20.1
5	14.5	12.6	13.7	24.1	15.0	19.5	22.7	19.3	20.9	24.2	17.1	21.0
6	15.3	14.3	14.9	23.9	14.8	19.5	21.2	19.1	20.2	19.7	17.5	18.8
7	15.2	13.8	14.7	24.6	14.8	19.8	24.1	16.4	20.4	22.6	15.6	19.2
8	14.9	13.5	14.1	24.7	15.9	20.5	23.6	17.6	21.1	23.7	15.5	19.8
9	16.0	13.6	14.6	23.6	16.5	20.6	22.4	18.4	20.6	---	16.4	---
10	18.3	12.4	14.1	23.6	16.3	20.3	21.2	18.4	19.8	---	16.5	---
11	18.5	12.2	14.4	21.5	17.1	19.6	19.3	16.6	17.6	---	16.9	---
12	22.3	11.9	14.9	20.3	16.1	18.3	20.8	15.1	18.1	---	16.6	---
13	17.0	14.5	15.6	23.5	14.7	19.2	21.7	15.7	19.0	---	15.2	---
14	16.7	14.7	15.7	24.0	16.0	20.3	19.3	15.1	17.8	---	15.0	---
15	17.2	14.5	15.6	24.8	16.8	21.0	22.2	15.3	18.9	---	---	---
16	17.1	14.1	15.3	22.6	18.1	20.9	21.2	17.2	19.5	19.6	14.5	17.2
17	17.4	14.1	15.5	23.6	17.7	20.8	22.5	17.6	20.1	19.8	13.7	17.0
18	18.6	14.5	16.3	22.7	19.0	20.6	23.0	17.9	20.2	---	---	---
19	19.6	13.6	16.5	23.6	17.8	20.3	23.9	18.4	19.6	---	---	---
20	19.0	14.0	16.3	24.3	18.1	21.2	24.9	16.7	20.6	18.2	15.1	16.6
21	20.3	14.5	17.3	24.7	18.0	21.5	25.0	18.5	21.7	16.8	15.1	15.8
22	21.5	14.5	18.0	25.3	19.0	22.4	26.3	18.4	22.2	16.1	14.6	15.2
23	21.8	14.6	18.1	25.3	21.4	23.1	26.7	18.6	22.4	17.0	14.0	15.3
24	21.8	15.5	18.5	25.6	19.7	22.6	25.2	19.3	22.3	19.2	13.0	15.5
25	23.8	17.3	20.1	25.5	20.0	22.9	27.1	19.1	22.8	19.7	12.8	16.0
26	24.1	16.9	19.8	25.6	20.1	23.0	22.6	20.2	21.2	16.9	14.1	15.1
27	23.4	16.7	19.6	24.1	20.7	22.2	24.0	17.7	20.5	17.7	13.2	15.4
28	23.3	16.2	19.2	24.0	18.9	21.0	23.6	17.5	20.5	18.2	11.9	14.5
29	23.5	14.1	18.5	24.7	19.5	21.7	23.9	19.5	20.8	18.6	11.8	14.8
30	23.3	14.9	18.7	24.6	20.0	21.7	24.4	17.1	20.6	18.5	11.6	15.0
31	---	---	---	24.3	19.7	21.6	22.2	17.4	19.8	---	---	---
MONTH	24.1	11.9	16.2	25.6	13.5	20.6	27.1	15.1	20.7	---	---	---

09247600 YAMPA RIVER BELOW CRAIG, CO

LOCATION.--Lat 40°28'51", long 107°36'49", in SW1/4NW1/4 sec.16, T.6 N., R.91 W., Moffat County, Hydrologic Unit 14050001, on left bank 0.5 mi downstream from state highway 13-789 bridge, and 3.3 mi southwest of Craig.

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	321	350	377	e295	e360	e320	2110	5170	9510	2720	955	384
2	292	336	332	e290	e380	e320	1960	4890	10300	2420	845	376
3	284	292	332	e295	e360	e325	1930	4120	11600	2240	733	370
4	278	321	e300	e305	e335	e330	2210	3590	12000	2100	689	363
5	286	365	e310	e290	e325	e325	2310	4030	10800	1990	738	394
6	265	368	e325	e300	e325	e320	1900	4950	10200	1900	833	398
7	242	329	e310	e300	e325	e325	1640	6190	9360	1840	997	373
8	238	278	e315	e300	e325	e330	1550	7030	8530	1740	848	389
9	244	297	e265	e320	e320	e345	1620	7070	8960	1640	730	390
10	236	338	e300	e310	e315	e350	1890	7090	8710	1550	698	354
11	231	327	e300	e305	e320	e355	1640	7310	8390	1460	1080	324
12	206	313	e305	e320	e320	e400	1430	7580	8020	1370	1230	319
13	224	319	e295	e330	e315	e500	1330	7570	7130	1340	1080	387
14	238	321	e295	e340	e320	e600	1270	7530	6420	1310	1010	407
15	217	356	e285	e330	e315	672	1280	7750	6040	1170	996	420
16	232	368	e290	e340	e315	759	1550	7990	5530	1100	800	413
17	244	336	e290	e335	e315	970	2240	8500	5200	1050	697	438
18	224	336	e285	e335	e315	1220	3270	8970	5270	982	634	444
19	217	361	e285	e360	e315	1380	4200	9410	5510	997	624	1030
20	258	370	e310	e340	e315	1790	5060	9300	6260	1020	637	3390
21	263	378	e325	e340	e325	2260	5890	8960	6600	968	588	4570
22	247	394	e305	e340	e330	2240	4990	8730	6300	889	537	3330
23	235	494	e310	e330	e320	2290	3930	8740	5790	833	524	2210
24	231	568	e300	e330	e320	2650	3870	8810	5030	831	499	1660
25	274	479	e300	e330	e325	1840	3760	8770	4330	836	462	1320
26	325	426	e295	e340	e325	1640	3780	8390	3720	855	441	1130
27	314	405	e300	e360	e325	1820	4020	7150	3440	842	443	1400
28	263	338	e305	e370	e325	1890	4760	6110	3280	802	460	1350
29	306	253	e310	e355	---	1970	6540	5960	3110	836	417	1080
30	344	344	e300	e380	---	1820	7840	9290	2950	932	426	928
31	330	---	e295	e360	---	1860	---	10100	---	872	409	---
TOTAL	8109	10760	9451	10175	9130	34216	91770	227050	208290	41435	22060	30341
MEAN	262	359	305	328	326	1104	3059	7324	6943	1337	712	1011
MAX	344	568	377	380	380	2650	7840	10100	12000	2720	1230	4570
MIN	206	253	265	290	315	320	1270	3590	2950	802	409	319
AC-FT	16080	21340	18750	20180	18110	67870	182000	450400	413100	82190	43760	60180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1997, BY WATER YEAR (WY)

MEAN	307	308	246	230	291	787	2378	4872	4264	1081	288	255
MAX	608	505	407	336	841	1718	4835	7524	8471	3683	712	1011
(WY)	1987	1985	1985	1985	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1985 - 1997	
ANNUAL TOTAL	590860		702787			
ANNUAL MEAN	1614		1925		1277	
HIGHEST ANNUAL MEAN					1925	1997
LOWEST ANNUAL MEAN					734	1989
HIGHEST DAILY MEAN	10500	May 18	12000	Jun 4	12000	Jun 4 1997
LOWEST DAILY MEAN	83	Sep 4	206	Oct 12	1.3	Sep 1 1988
ANNUAL SEVEN-DAY MINIMUM	100	Sep 1	226	Oct 10	13	Aug 31 1988
INSTANTANEOUS PEAK FLOW			12900	Jun 4	12900	Jun 4 1997
INSTANTANEOUS PEAK STAGE			10.78	Jun 4	10.78	Jun 4 1997
ANNUAL RUNOFF (AC-FT)	1172000		1394000		925400	
10 PERCENT EXCEEDS	5550		6770		4170	
50 PERCENT EXCEEDS	334		444		355	
90 PERCENT EXCEEDS	210		294		150	

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 1996 TO SEPTEMBER 1997

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											
20...	1030	348	454	8.4	3.0	12.7	46	K11	160	38	17
MAR											
25...	1400	1720	610	8.0	3.5	11.9	78	48	220	48	24
JUN											
03...	1600	11600	133	7.7	13.5	10.2	47	21	51	13	4.4
AUG											
21...	1400	588	298	8.8	22.0	9.1	23	K11	110	27	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)	ALKA-LINITY 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)
NOV											
20...	28	0.9	2.2	120	95	10	0.3	4.0	267	0.36	251
MAR											
25...	41	1	3.0	119	180	9.7	0.2	10	393	0.53	1820
JUN											
03...	5.1	0.3	1.1	43	18	1.3	<0.1	8.7	78	0.11	2420
AUG											
21...	14	0.6	1.9	92	51	4.8	0.2	6.3	172	0.23	272

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								
20...	0.03	0.06	0.020	<0.20	<0.2	<0.01	<0.01	<0.01
MAR								
25...	<0.01	1.20	0.110	0.80	0.5	0.24	0.04	0.03
JUN								
03...	<0.01	0.07	0.022	0.21	0.2	<0.01	<0.01	0.01
AUG								
21...	<0.01	0.06	<0.015	0.29	<0.2	0.03	<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, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV										
20...	<1	3	260	<1	40	19	<0.1	1	<0.2	4
MAR										
25...	<1	3	2600	<1	160	43	<0.1	5	<0.2	7
JUN										
03...	<1	1	2700	<1	80	10	<0.1	<1	<0.2	5
AUG										
21...	<1	2	120	<1	31	8.2	<0.1	<1	<0.2	<3

K-Based on non-ideal colony count.

09247600 YAMPA RIVER BELOW CRAIG, CO--Continued

WATER-QUALITY RECORDS

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT				
01...	1156	321	348	12.5
MAR				
26...	1000	1740	665	3.5
APR				
14...	1026	1300	729	5.0
MAY				
05...	0930	4080	370	9.5
SEP				
17...	1105	426	337	15.0

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	66	69	59	58	58	166	804	1960	333	214	87
2	61	63	58	59	62	74	161	711	2020	307	154	85
3	63	59	62	60	62	53	160	638	2290	275	131	80
4	61	64	54	65	62	58	179	639	1870	249	115	75
5	57	69	50	e67	53	103	188	808	1750	237	147	83
6	54	64	71	e70	56	83	147	1060	1650	224	164	80
7	54	50	63	e65	e57	76	146	1460	1360	209	190	79
8	51	63	71	71	e59	55	146	1690	1370	197	135	81
9	51	70	67	64	e56	75	147	1570	1390	182	114	75
10	49	68	73	71	e58	81	163	1600	1240	181	153	68
11	49	65	80	71	53	80	132	1630	1220	173	299	70
12	47	63	80	66	61	82	129	1760	1150	171	299	81
13	43	66	73	74	61	94	122	1680	1060	173	219	96
14	46	66	75	76	e60	104	132	1730	1010	168	176	76
15	51	75	72	72	50	88	143	1690	935	148	162	72
16	51	66	68	70	67	93	151	1800	813	134	130	72
17	54	59	58	64	55	115	196	1970	781	127	116	97
18	49	72	78	57	58	129	271	2080	792	e130	109	83
19	52	83	58	62	e62	118	345	2050	884	e145	107	397
20	75	82	38	61	55	130	454	1870	911	e140	103	883
21	64	82	59	59	e63	157	583	1740	860	e150	98	820
22	55	77	67	65	93	161	486	1740	782	e160	93	600
23	60	76	70	58	66	174	413	1670	708	e155	92	394
24	65	e75	67	72	57	196	401	1520	639	e170	85	285
25	63	e77	63	67	e65	148	372	1540	578	e150	82	229
26	70	75	60	56	60	150	373	1300	521	e135	81	199
27	63	77	62	59	53	149	398	1080	477	e120	92	275
28	61	65	63	70	57	136	599	949	439	e100	91	217
29	73	38	62	56	---	154	1030	1240	403	138	88	181
30	66	49	61	66	---	137	926	1970	369	147	86	163
31	68	---	59	56	---	139	---	1780	---	153	79	---
TOTAL	1779	2024	2011	2008	1679	3450	9259	45769	32232	5481	4204	6083
MEAN	57.4	67.5	64.9	64.8	60.0	111	309	1476	1074	177	136	203
MAX	75	83	80	76	93	196	1030	2080	2290	333	299	883
MIN	43	38	38	56	50	53	122	638	369	100	79	68
AC-FT	3530	4010	3990	3980	3330	6840	18370	90780	63930	10870	8340	12070

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1997, BY WATER YEAR (WY)

MEAN	64.9	63.4	57.8	56.0	59.4	96.0	317	1054	709	179	75.8	62.0
MAX	140	117	106	79.5	108	165	680	2228	1721	494	220	203
(WY)	1985	1985	1985	1985	1986	1986	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1984 - 1997	
ANNUAL TOTAL	100218		115979			
ANNUAL MEAN	274		318		217	
HIGHEST ANNUAL MEAN					358	1985
LOWEST ANNUAL MEAN					105	1994
HIGHEST DAILY MEAN	2580	May 17	2290	Jun 3	3980	May 16 1984
LOWEST DAILY MEAN	19	Sep 11	[a]38	Nov 29	13	Sep 13 1994
ANNUAL SEVEN-DAY MINIMUM	33	Sep 6	48	Oct 8	15	Sep 9 1994
INSTANTANEOUS PEAK FLOW			2750	Jun 3	4750	May 16 1984
INSTANTANEOUS PEAK STAGE			7.68	Jun 3	9.96	May 16 1984
ANNUAL RUNOFF (AC-FT)	198800		230000		157100	
10 PERCENT EXCEEDS	912		1070		690	
50 PERCENT EXCEEDS	74		88		75	
90 PERCENT EXCEEDS	49		57		37	

e-Estimated.
a-Also occurred Dec 20.

09251000 YAMPA RIVER NEAR MAYBELL, CO

LOCATION.--Lat 40°30'10", long 108°01'45", in NW1/4 sec.2, T.6 N., R.95 W., Moffat County, Hydrologic Unit 14050002, on left bank at downstream side of 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 good 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	294	395	317	e350	e420	e380	1980	7790	13400	4070	1050	394
2	302	415	415	e350	e420	e380	2120	7180	13400	3720	1070	369
3	285	394	327	e350	e440	e390	2010	6660	14600	3350	890	355
4	284	324	242	e350	e420	e380	2030	6150	16400	3110	762	343
5	273	385	329	e370	e400	e420	2330	6150	16000	2760	770	338
6	272	453	340	e360	e380	e400	2120	6890	14400	2590	859	367
7	264	419	397	e370	e380	e400	1840	7730	13500	2500	1080	372
8	253	357	416	e370	e380	e400	1710	8750	12300	2410	1160	344
9	245	323	505	e370	e380	e390	1710	9200	12100	2220	949	372
10	251	349	531	e380	e380	e420	1830	9380	12600	2100	824	370
11	244	404	570	e380	e370	e460	1800	9700	12200	1950	1020	337
12	239	402	526	e380	e370	e520	1550	10000	11700	1820	1640	320
13	226	384	587	e370	e380	e700	1440	10300	11600	1720	1650	320
14	218	390	485	e400	e380	e900	1370	10500	10100	1730	1390	392
15	238	434	381	e420	e380	1460	1390	10700	9110	1560	1340	400
16	240	460	357	e400	e370	1530	1430	11100	8370	1380	1160	415
17	238	445	e380	e380	e380	1660	2040	11700	7730	1310	941	407
18	253	403	e360	e400	e420	1810	3350	12400	7650	1270	811	482
19	243	443	e350	e390	e480	1970	4830	13000	7790	1200	741	608
20	266	484	e330	e420	e450	2160	5900	12800	8490	1280	719	3330
21	312	497	e320	e400	e400	2480	7130	12300	9210	1180	709	6390
22	313	515	e280	e400	e390	2480	7370	11800	8870	1080	615	6170
23	294	600	e200	e400	e420	2530	5460	11600	8410	966	556	3940
24	281	771	e250	e390	e390	2600	5030	11500	8180	944	529	2940
25	284	773	e290	e400	e380	2150	5100	11600	7170	988	544	2220
26	349	641	e320	e400	e390	1750	4860	11300	5880	925	541	1790
27	403	567	e350	e400	e390	1740	5080	9930	5250	929	512	1590
28	379	519	e360	e420	e380	1960	5340	8240	4910	892	514	2190
29	320	385	e370	e440	---	1930	7140	7490	4670	842	531	1710
30	367	315	e370	e410	---	1920	8850	10300	4440	953	471	1410
31	414	---	e360	e450	---	1820	---	13400	---	1010	453	---
TOTAL	8844	13646	11615	12070	11120	40490	106140	307540	300430	54759	26801	40985
MEAN	285	455	375	389	397	1306	3538	9921	10010	1766	865	1366
MAX	414	773	587	450	480	2600	8850	13400	16400	4070	1650	6390
MIN	218	315	200	350	370	380	1370	6150	4440	842	453	320
AC-FT	17540	27070	23040	23940	22060	80310	210500	610000	595900	108600	53160	81290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1997, BY WATER YEAR (WY)

MEAN	344	351	297	274	331	706	2605	6281	5591	1421	389	251
MAX	1001	729	624	610	1071	2063	6496	14000	12810	5819	1052	1366
(WY)	1962	1987	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1916 - 1997	
ANNUAL TOTAL	780498		934440			
ANNUAL MEAN	2133		2560		1572	
HIGHEST ANNUAL MEAN					3025	1984
LOWEST ANNUAL MEAN					477	1977
HIGHEST DAILY MEAN	14700	May 19	16400	Jun 4	24400	May 17 1984
LOWEST DAILY MEAN	79	Sep 6	e200	Dec 23	a2.0	Jul 17 1934
ANNUAL SEVEN-DAY MINIMUM	101	Sep 2	235	Oct 11	3.0	Jul 30 1934
INSTANTANEOUS PEAK FLOW			18800	Jun 4	25100	May 17 1984
INSTANTANEOUS PEAK STAGE			11.18	Jun 4	12.42	May 17 1984
ANNUAL RUNOFF (AC-FT)	1548000		1853000		1139000	
10 PERCENT EXCEEDS	7460		9150		5350	
50 PERCENT EXCEEDS	404		556		400	
90 PERCENT EXCEEDS	226		320		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 since July 1975.

REMARKS.--Specific-conductance record is good except Dec. 17 to Mar. 11, and Mar. 23 to Apr. 3, which is poor. Water-temperature record is good except May 14 to Sept. 3, which is poor. 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, 930 microsiemens, Apr. 17; minimum recorded, 127 microsiemens, June 6.
WATER TEMPERATURE: Maximum recorded, 28.8°C, July 14; minimum recorded, 0.0°C, on many days during the winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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										
07...	1300	269	467	8.3	15.5	8.7	160	37	17	31
NOV										
08...	1600	373	536	8.4	2.5	12.0	210	46	22	36
DEC										
23...	1500	160	816	8.3	0.0	11.3	290	57	36	60
JAN										
17...	1330	360	770	8.3	0.0	11.4	270	53	33	54
FEB										
18...	1400	506	753	8.3	0.0	11.4	270	55	33	55
MAR										
24...	1400	2680	705	8.0	5.5	10.8	230	46	28	54
APR										
16...	1400	1400	916	8.4	11.0	10.6	340	65	43	63
MAY										
07...	1300	7360	336	8.1	12.5	10.1	140	32	13	13
JUN										
03...	1400	14400	173	8.0	14.5	10.1	70	18	6.2	6.5
JUL										
10...	1500	2060	205	8.2	21.0	9.1	77	19	7.4	10
AUG										
05...	1130	732	353	8.4	20.0	8.2	130	31	13	19
SEP										
10...	1100	380	484	8.7	19.5	8.6	180	38	20	31

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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...	1	2.3	139	84	11	0.2	4.6	270	0.37	196
NOV										
08...	1	2.1	142	120	13	0.2	4.1	329	0.45	331
DEC										
23...	2	2.7	189	220	16	0.3	6.2	512	0.70	221
JAN										
17...	1	2.5	174	200	15	0.2	9.2	471	0.64	458
FEB										
18...	1	2.6	166	210	17	0.3	9.1	482	0.65	658
MAR										
24...	2	3.5	128	210	11	0.2	8.8	438	0.60	3170
APR										
16...	1	2.9	169	290	16	0.2	8.2	588	0.80	2220
MAY										
07...	0.5	2.0	95	68	3.0	0.1	9.8	199	0.27	3960
JUN										
03...	0.3	1.5	59	25	1.6	<0.1	9.1	103	0.14	4000
JUL										
10...	0.5	1.0	59	33	3.6	0.1	6.5	116	0.16	647
AUG										
05...	0.7	1.7	106	59	7.5	0.2	7.3	203	0.28	400
SEP										
10...	1	2.2	136	98	11	0.2	5.9	288	0.39	296

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	480	460	465	560	520	536	700	600	654	720	700	704
2	460	460	460	540	520	535	---	---	---	720	700	713
3	460	440	458	540	520	523	---	---	---	740	700	713
4	460	440	458	520	520	520	780	700	742	760	740	744
5	460	460	460	520	500	515	780	700	740	820	740	782
6	460	460	460	520	500	518	720	700	715	900	820	858
7	470	460	461	540	500	521	720	700	714	900	840	865
8	480	460	465	540	520	532	720	680	705	880	800	828
9	480	460	478	540	520	527	680	660	674	840	820	826
10	480	480	480	560	540	542	660	600	635	820	820	820
11	500	480	485	580	560	563	700	620	660	820	780	807
12	500	500	500	580	540	561	700	660	688	800	780	788
13	520	480	501	560	520	538	680	660	668	800	760	778
14	520	500	508	560	540	553	---	---	---	760	760	760
15	520	500	504	560	540	544	---	---	---	780	760	763
16	520	500	504	540	540	540	---	---	---	780	760	769
17	500	480	499	560	520	545	---	---	---	780	760	769
18	500	500	500	560	560	560	---	---	---	760	740	753
19	500	480	497	580	540	556	---	---	---	740	720	732
20	500	480	487	680	580	619	---	---	---	740	700	719
21	500	480	483	700	660	670	---	---	---	740	700	718
22	520	480	503	660	600	630	---	---	---	720	700	713
23	520	520	520	640	600	621	---	---	---	720	700	704
24	520	500	512	720	620	672	800	740	761	720	700	702
25	520	520	520	680	640	668	740	700	717	720	700	715
26	520	500	508	700	660	695	700	680	690	720	720	720
27	540	460	513	700	680	698	680	660	679	720	700	707
28	540	500	525	700	680	684	680	660	678	720	700	706
29	540	500	516	680	640	663	680	660	677	720	700	715
30	540	500	522	680	600	643	700	680	681	720	700	719
31	560	520	535	---	---	---	700	680	694	740	720	725
MONTH	560	440	493	720	500	583	---	---	---	900	700	753

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	740	720	728	790	720	765	690	650	664	---	---	---
2	740	720	722	800	720	758	670	630	649	---	---	---
3	720	720	720	770	720	744	690	620	655	---	---	---
4	740	720	720	760	710	739	---	---	---	---	---	---
5	760	720	742	770	710	729	---	---	---	---	---	---
6	760	740	744	760	720	732	---	---	---	---	---	---
7	760	740	746	760	700	730	---	---	---	---	---	---
8	760	740	756	760	710	736	---	---	---	---	---	---
9	760	740	746	770	710	734	---	---	---	---	---	---
10	760	740	748	760	650	714	---	---	---	---	---	---
11	780	760	764	760	650	715	---	---	---	---	---	---
12	780	760	772	---	---	---	---	---	---	---	---	---
13	780	760	763	---	---	---	---	---	---	---	---	---
14	760	740	758	---	---	---	---	---	---	---	---	---
15	760	720	743	---	---	---	---	---	---	239	209	223
16	740	700	718	---	---	---	---	---	---	238	208	223
17	740	720	722	---	---	---	930	740	844	218	207	214
18	760	700	727	870	780	820	---	---	---	217	185	205
19	---	---	---	860	810	838	---	---	---	185	175	183
20	---	---	---	920	800	863	---	---	---	184	165	174
21	---	---	---	850	730	781	---	---	---	183	163	175
22	800	720	779	770	670	714	---	---	---	182	171	177
23	850	780	819	700	620	673	---	---	---	181	171	179
24	850	800	820	760	680	729	---	---	---	181	170	177
25	850	770	801	750	700	724	---	---	---	209	169	176
26	830	720	778	720	640	672	---	---	---	187	168	180
27	840	700	791	670	630	644	---	---	---	206	187	199
28	820	770	799	710	660	672	---	---	---	225	206	218
29	---	---	---	740	680	705	---	---	---	225	214	218
30	---	---	---	740	700	717	---	---	---	252	223	237
31	---	---	---	710	660	688	---	---	---	251	221	238
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

		JUNE			JULY			AUGUST			SEPTEMBER	
1	231	172	192	189	170	182	350	330	338	495	448	464
2	181	161	164	179	169	173	340	330	335	485	438	452
3	161	140	153	177	166	168	340	310	328	515	485	502
4	160	139	153	183	166	174	360	340	347	508	499	503
5	159	138	147	191	173	181	370	358	362	505	495	499
6	148	127	136	191	180	187	375	356	365	502	488	494
7	155	137	144	198	179	189	375	342	360	493	486	490
8	155	136	151	202	186	192	352	322	333	491	484	487
9	164	154	157	202	191	196	358	322	339	504	486	491
10	172	162	165	220	191	204	376	349	362	506	484	495
11	180	161	170	230	210	216	385	366	371	485	474	478
12	180	169	177	240	220	232	385	347	366	486	476	480
13	207	169	197	250	230	241	347	327	340	494	484	487
14	206	186	199	250	240	247	355	336	342	506	491	498
15	205	195	199	250	240	248	364	345	355	505	479	493
16	213	194	206	270	250	261	364	354	358	480	473	477
17	212	192	201	280	260	272	363	334	348	496	475	480
18	219	192	213	280	270	273	381	353	363	499	455	484
19	228	217	222	290	270	279	389	371	380	467	441	455
20	217	197	213	320	280	294	399	389	394	538	400	480
21	206	178	192	320	300	305	398	388	392	400	330	353
22	187	167	176	310	300	304	398	388	397	372	342	355
23	193	166	180	330	310	317	397	387	394	381	357	367
24	193	182	191	340	320	326	406	396	401	493	381	433
25	208	181	192	380	330	348	415	405	409	444	435	439
26	208	196	202	380	360	369	423	405	413	437	421	429
27	205	195	199	370	360	364	423	404	415	422	398	406
28	213	202	208	360	340	351	431	413	421	414	391	405
29	202	192	196	350	340	344	449	422	433	391	327	348
30	192	181	187	350	340	341	440	421	431	386	349	374
31	---	---	---	340	330	334	495	430	450	---	---	---
MONTH	231	127	183	380	166	262	495	310	376	538	327	453

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.1	11.6	13.3	5.1	3.4	3.9	.3	.0	.0	.0	.0	.0
2	15.1	12.1	13.6	4.9	2.3	3.6	.1	.0	.0	.0	.0	.0
3	14.2	13.1	13.8	4.4	3.1	3.8	.0	.0	.0	.0	.0	.0
4	15.7	11.7	13.6	5.9	3.4	4.6	.1	.0	.0	.0	.0	.0
5	16.4	12.4	14.3	5.2	2.5	3.8	.0	.0	.0	.0	.0	.0
6	16.4	12.6	14.3	2.5	.5	1.5	.0	.0	.0	.0	.0	.0
7	16.5	12.5	14.2	2.2	.0	.7	.0	.0	.0	.0	.0	.0
8	16.3	12.1	13.9	2.4	.0	1.0	.2	.0	.0	.0	.0	.0
9	16.5	12.0	14.0	2.9	.4	1.5	.2	.0	.0	.0	.0	.0
10	16.3	12.2	14.0	3.5	.9	2.1	.6	.0	.1	.0	.0	.0
11	16.3	12.0	13.9	3.6	1.2	2.3	.1	.0	.0	.0	.0	.0
12	16.2	11.9	13.7	4.0	1.7	2.8	.2	.0	.0	.0	.0	.0
13	15.9	11.7	13.4	4.6	2.8	3.6	.6	.0	.1	.0	.0	.0
14	15.8	12.0	13.5	4.4	3.1	3.9	.0	.0	.0	.0	.0	.0
15	13.7	10.3	11.7	3.1	1.8	2.2	.0	.0	.0	.0	.0	.0
16	10.6	7.0	9.2	2.5	1.0	1.7	---	---	---	.0	.0	.0
17	9.1	5.6	6.9	1.0	.0	.2	---	---	---	.0	.0	.0
18	8.4	4.8	6.6	2.7	.0	1.3	---	---	---	.0	.0	.0
19	8.5	4.6	6.6	4.0	1.9	3.0	---	---	---	.0	.0	.0
20	7.1	3.8	5.0	5.7	3.5	4.5	---	---	---	.0	.0	.0
21	5.7	3.1	4.2	5.4	4.0	4.7	---	---	---	.0	.0	.0
22	5.9	3.1	4.2	6.9	5.2	6.0	---	---	---	.0	.0	.0
23	6.9	3.7	5.1	6.2	4.4	5.4	.0	.0	.0	.0	.0	.0
24	5.0	3.8	4.4	4.4	3.1	3.8	.0	.0	.0	.0	.0	.0
25	4.5	2.5	3.9	4.1	2.9	3.6	.0	.0	.0	.0	.0	.0
26	2.5	1.0	1.7	3.9	2.4	3.2	.0	.0	.0	.0	.0	.0
27	2.4	.0	.8	2.4	.8	1.5	.0	.0	.0	.0	.0	.0
28	1.9	.0	.7	1.4	.0	.7	.0	.0	.0	.0	.0	.0
29	3.3	.2	1.8	1.0	.0	.5	.0	.0	.0	.0	.0	.0
30	5.6	2.6	3.8	1.1	.0	.2	.0	.0	.0	.0	.0	.0
31	5.0	3.2	4.0	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	16.5	.0	8.8	6.9	.0	2.7	---	---	---	.0	.0	.0
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	.0	.0	.0	---	---	---	---	---	---
2	.0	.0	.0	.0	.0	.0	---	---	---	---	---	---
3	.0	.0	.0	.0	.0	.0	10.3	8.0	9.0	---	---	---
4	.0	.0	.0	.0	.0	.0	---	---	---	---	---	---
5	.0	.0	.0	.0	.0	.0	---	---	---	---	---	---
6	.0	.0	.0	.0	.0	.0	---	---	---	---	---	---
7	.0	.0	.0	.0	.0	.0	---	---	---	---	---	---
8	.0	.0	.0	.0	.0	.0	---	---	---	---	---	---
9	.0	.0	.0	.0	.0	.0	---	---	---	---	---	---
10	.0	.0	.0	.0	.0	.0	---	---	---	---	---	---
11	.0	.0	.0	.0	.0	.0	---	---	---	---	---	---
12	.0	.0	.0	.0	.0	.0	---	---	---	---	---	---
13	.0	.0	.0	---	---	---	---	---	---	---	---	---
14	.0	.0	.0	---	---	---	---	---	---	---	---	---
15	.0	.0	.0	---	---	---	---	---	---	11.4	10.1	10.9
16	.0	.0	.0	---	---	---	---	---	---	12.5	11.1	11.8
17	.0	.0	.0	---	---	---	---	---	---	12.5	11.5	12.0
18	.0	.0	.0	---	---	---	---	---	---	12.6	11.6	12.1
19	.0	.0	.0	---	---	---	---	---	---	12.8	11.5	12.1
20	---	---	---	---	---	---	---	---	---	12.3	11.7	11.9
21	.0	.0	.0	---	---	---	---	---	---	11.8	10.6	11.0
22	.0	.0	.0	---	---	---	---	---	---	11.3	10.1	10.9
23	.0	.0	.0	---	---	---	---	---	---	10.8	9.5	10.3
24	.0	.0	.0	---	---	---	---	---	---	11.4	10.6	11.0
25	.0	.0	.0	---	---	---	---	---	---	10.7	9.7	10.0
26	.0	.0	.0	---	---	---	---	---	---	9.8	9.3	9.5
27	.0	.0	.0	---	---	---	---	---	---	9.8	8.4	9.1
28	.0	.0	.0	---	---	---	---	---	---	12.3	9.6	11.1
29	---	---	---	---	---	---	---	---	---	12.5	11.8	12.2
30	---	---	---	---	---	---	---	---	---	12.5	11.5	12.1
31	---	---	---	---	---	---	---	---	---	15.4	12.5	14.1
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.6	14.9	15.7	17.8	16.3	17.1	25.1	20.7	23.0	24.1	19.8	21.9
2	16.0	14.8	15.5	17.5	15.9	16.7	24.7	20.2	22.5	25.1	21.2	23.1
3	15.3	13.8	14.6	17.3	15.6	16.6	24.6	20.9	23.1	24.1	20.6	22.2
4	16.0	14.3	15.2	18.1	16.1	17.1	23.9	21.1	22.2	20.7	19.3	20.1
5	16.3	15.3	15.7	18.8	17.8	18.3	22.0	20.0	20.9	22.2	17.8	19.8
6	16.4	15.4	15.9	19.6	18.0	18.8	21.0	19.1	20.2	20.2	18.3	19.1
7	15.8	14.5	14.9	20.2	18.2	19.2	22.1	18.0	20.1	20.4	16.9	18.4
8	14.5	13.3	13.9	22.9	18.9	20.2	22.5	19.0	20.8	21.2	16.5	18.7
9	13.6	12.6	13.2	23.1	19.2	20.7	21.5	18.9	20.4	21.9	17.5	19.6
10	14.3	13.3	13.8	22.8	17.7	20.2	20.5	18.6	19.6	21.9	17.7	19.8
11	14.4	13.2	13.9	22.5	21.3	22.0	19.6	17.0	17.9	21.6	18.0	19.4
12	15.2	14.2	14.6	25.5	20.6	22.2	18.8	15.5	17.3	21.4	17.5	19.1
13	14.7	14.2	14.3	28.5	23.8	26.3	19.4	16.6	17.9	19.4	16.7	18.0
14	14.7	13.8	14.2	28.8	22.6	27.0	18.9	16.3	17.7	19.9	16.2	18.0
15	14.6	13.7	14.2	28.5	22.5	24.4	20.0	16.1	17.9	18.9	16.9	17.8
16	14.5	13.8	14.2	25.3	21.5	23.2	19.6	17.3	18.5	18.8	15.7	17.2
17	15.9	13.8	14.8	23.1	21.9	22.5	20.6	17.0	18.9	18.3	14.7	16.5
18	16.1	15.0	15.6	26.4	22.6	23.9	21.8	17.8	19.8	17.2	15.3	16.1
19	16.6	15.0	15.8	26.9	23.6	26.0	22.3	18.4	20.4	15.3	14.4	14.9
20	16.6	15.9	16.3	23.6	21.3	22.1	23.2	18.5	20.9	15.0	13.8	14.3
21	16.7	15.5	16.2	27.3	20.4	23.1	23.8	20.0	22.0	13.8	12.1	12.6
22	17.1	15.9	16.5	27.0	22.8	25.2	24.1	20.2	22.3	12.3	11.7	12.0
23	17.1	16.0	16.6	27.5	23.8	25.5	24.5	20.1	22.4	12.8	11.4	12.0
24	16.9	15.9	16.5	27.9	23.4	25.7	24.2	21.1	22.7	13.6	11.2	12.4
25	16.6	15.8	16.3	27.4	23.8	25.8	24.4	20.3	22.4	14.8	12.1	13.4
26	16.6	15.6	16.2	26.4	23.0	25.0	23.1	21.3	22.2	14.4	13.7	14.1
27	17.3	15.9	16.6	25.6	23.1	24.4	23.4	19.6	21.3	15.4	12.9	14.0
28	17.8	16.6	17.1	24.3	22.1	23.1	23.5	20.0	21.7	14.8	12.5	13.7
29	18.9	16.1	17.3	24.7	22.0	23.3	24.1	19.8	21.9	14.6	12.0	13.4
30	17.6	16.5	17.2	23.8	21.9	22.6	24.0	19.9	22.1	15.1	12.3	13.7
31	---	---	---	24.0	20.6	22.2	23.4	19.6	21.5	---	---	---
MONTH	18.9	12.6	15.4	28.8	15.6	22.3	25.1	15.5	20.7	25.1	11.2	16.8

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.

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

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,640 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transbasin diversions, numerous storage reservoirs and diversions for irrigation of about 65,800 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	370	459	e320	e350	e430	e390	e1830	8870	12700	3730	1010	535
2	346	430	e350	e360	e440	e390	e2000	6640	12400	3430	1150	504
3	363	458	e420	e370	e450	e400	2290	6080	13500	2980	1040	506
4	350	468	e330	e350	e430	e390	2180	5150	15000	2760	960	509
5	355	486	e260	e370	e410	e430	2570	4600	15500	2610	926	503
6	331	450	e330	e370	e390	e410	2770	5570	14600	2430	910	479
7	327	454	e350	e380	e390	e420	2270	6810	13300	2290	908	489
8	326	e442	e400	e390	e400	e430	1930	8650	12000	2240	1180	475
9	309	e380	e420	e390	e390	e400	1830	9550	11300	2210	1100	465
10	289	e330	e510	e400	e400	e430	1900	9360	11500	2120	1030	488
11	285	e360	e540	e390	e380	e470	2130	9590	11100	1980	990	521
12	281	e410	e580	e390	e380	e530	2040	9960	10600	1920	1380	506
13	269	e420	e530	e380	e390	e710	1810	10300	10200	1840	1720	516
14	265	e400	e590	e410	e380	e1300	1580	10100	9230	1710	1610	510
15	247	e400	e490	e430	e390	1030	1480	10100	8490	1680	1340	463
16	253	e430	e390	e410	e380	1030	1460	10200	8040	1500	1280	506
17	273	e470	e360	e400	e390	1120	1600	10600	7460	1370	1050	463
18	272	e460	e370	e410	e420	1220	2430	11200	7090	1320	914	495
19	302	e450	e350	e410	e490	1450	3820	11700	7240	1370	826	866
20	316	e470	e330	e420	e460	1640	3760	11900	7580	1250	769	1410
21	288	e490	e350	e410	e410	1970	5290	11900	8430	1260	736	4600
22	315	e500	e300	e410	e400	2420	7220	11400	8330	1200	741	e6390
23	357	e520	e210	e400	e430	2650	5770	11300	7910	1100	659	e6200
24	355	e600	e260	e400	e400	2600	4860	11200	7170	1090	594	3210
25	357	e770	e300	e390	e390	2740	4730	11300	6380	1030	569	2500
26	367	e790	e330	e410	e400	2840	4420	11200	5650	1030	532	2160
27	354	e650	e360	e400	e400	2160	3930	10300	4910	954	556	1800
28	398	e570	e370	e410	e400	1770	3930	8570	4520	991	532	1870
29	423	e520	e380	e420	---	1940	5820	7560	4270	983	524	1920
30	402	e390	e380	e450	---	1950	9050	8630	4030	951	499	1570
31	410	---	e370	e460	---	e1930	---	11700	---	1090	523	---
TOTAL	10155	14427	11830	12340	11420	39560	98700	291990	280430	54419	28558	43429
MEAN	328	481	382	398	408	1276	3290	9419	9348	1755	921	1448
MAX	423	790	590	460	490	2840	9050	11900	15500	3730	1720	6390
MIN	247	330	210	350	380	390	1460	4600	4030	951	499	463
AC-FT	20140	28620	23460	24480	22650	78470	195800	579200	556200	107900	56640	86140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1997, BY WATER YEAR (WY)

MEAN	328	481	382	398	408	1276	3290	9419	7964	1677	645	829
MAX	328	481	382	398	408	1276	3290	9419	9348	1755	921	1448
(WY)	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997
MIN	328	481	382	398	408	1276	3290	9419	6579	1598	368	211
(WY)	1997	1997	1997	1997	1997	1997	1997	1997	1996	1996	1996	1996

SUMMARY STATISTICS	FOR 1997 WATER YEAR		WATER YEARS 1996 - 1997	
ANNUAL TOTAL	897258			
ANNUAL MEAN	2458		2458	
HIGHEST ANNUAL MEAN			2458	1997
LOWEST ANNUAL MEAN			2458	1997
HIGHEST DAILY MEAN	15500	Jun 5	15500	Jun 5 1997
LOWEST DAILY MEAN	e210	Dec 23	103	Sep 7 1996
ANNUAL SEVEN-DAY MINIMUM	266	Oct 12	121	Sep 4 1996
INSTANTANEOUS PEAK FLOW	16400	Jun 5	16400	Jun 5 1997
INSTANTANEOUS PEAK STAGE	10.74	Jun 5	10.74	Jun 5 1997
ANNUAL RUNOFF (AC-FT)	1780000		1781000	
10 PERCENT EXCEEDS	8740		8080	
50 PERCENT EXCEEDS	580		650	
90 PERCENT EXCEEDS	352		285	

e-Estimated.

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	45	e37	e40	e39	e36	147	507	2450	446	81	42
2	33	39	e39	e39	e39	e36	136	440	2640	390	72	43
3	33	43	e41	e41	e39	e36	142	396	2530	357	65	39
4	37	44	e41	e41	e39	e36	167	498	2270	326	66	36
5	35	42	e40	e41	e39	e36	145	724	2260	303	96	38
6	33	42	e40	e42	e39	e38	131	1030	2180	284	93	37
7	32	e42	e40	e42	e39	e42	124	1250	1980	261	72	38
8	31	e41	e39	e42	e38	e48	123	1290	2030	235	63	39
9	31	e41	e38	e41	e38	e47	123	1300	1970	222	60	34
10	31	e41	e38	e41	e38	e50	120	1400	1920	211	78	32
11	30	e41	e38	e41	e38	e55	110	1500	1810	191	99	39
12	30	e41	e39	e42	e38	e60	104	1520	1650	167	95	57
13	30	42	e39	e41	e38	e65	101	1540	1430	177	90	49
14	30	42	e39	e40	e38	e70	102	1610	1320	148	73	43
15	30	e42	e40	e40	e38	e75	109	1670	1210	130	65	39
16	32	e41	e41	e41	e38	83	123	1890	1100	121	55	46
17	33	e41	e42	e41	e37	80	172	2080	1060	118	50	43
18	27	e42	e42	e40	e37	83	253	2130	1120	117	49	41
19	43	e41	e41	e40	e37	91	334	2040	1380	121	50	303
20	41	e42	e40	e40	e37	108	432	1950	1300	125	47	209
21	37	e40	e39	e40	e37	123	501	1890	1350	112	47	257
22	33	e41	e38	e40	e37	124	390	1940	1260	98	45	152
23	35	e41	e38	e40	e37	130	372	1810	1110	96	43	127
24	36	e40	e38	e40	e37	134	360	1870	939	100	41	101
25	40	e39	e40	e40	e37	119	360	1900	781	93	41	85
26	39	e37	e40	e40	e37	119	463	1640	691	86	43	88
27	37	e36	e40	e40	e37	124	532	1360	629	83	51	124
28	53	34	e40	e40	e36	121	819	1260	588	85	60	87
29	39	e36	e40	e40	---	123	834	1750	542	94	47	77
30	52	e36	e40	e39	---	122	598	1960	491	78	43	71
31	56	---	e40	e39	---	138	---	2040	---	79	41	---
TOTAL	1113	1215	1227	1254	1058	2552	8427	46185	43991	5454	1921	2416
MEAN	35.9	40.5	39.6	40.5	37.8	82.3	281	1490	1466	176	62.0	80.5
MAX	56	45	42	42	39	138	834	2130	2640	446	99	303
MIN	27	34	37	39	36	36	101	396	491	78	41	32
AC-FT	2210	2410	2430	2490	2100	5060	16710	91610	87260	10820	3810	4790

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1997, BY WATER YEAR (WY)

MEAN	38.1	35.4	31.6	31.3	32.3	49.4	261	1089	955	162	39.1	29.4
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1944 - 1997	
ANNUAL TOTAL	101400		116813			
ANNUAL MEAN	277		320		230	
HIGHEST ANNUAL MEAN					423	1984
LOWEST ANNUAL MEAN					86.6	1977
HIGHEST DAILY MEAN	3030	May 17	2640	Jun 2	3960	May 24 1984
LOWEST DAILY MEAN	[a]23	Sep 3	27	Oct 18	4.2	Sep 9 1988
ANNUAL SEVEN-DAY MINIMUM	25	Aug 30	30	Oct 9	6.2	Sep 4 1988
INSTANTANEOUS PEAK FLOW			3140	Jun 1	4780	May 23 1984
INSTANTANEOUS PEAK STAGE			7.75	Jun 1	[b]8.78	May 23 1994
ANNUAL RUNOFF (AC-FT)	201100		231700		166600	
10 PERCENT EXCEEDS	1260		1330		822	
50 PERCENT EXCEEDS	40		48		40	
90 PERCENT EXCEEDS	29		37		21	

e-Estimated.
a-Also occurred Sep 4-5.
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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	24	e21	21	e22	e22	66	262	909	86	21	12
2	15	20	e20	23	e22	e22	57	225	937	74	20	12
3	15	22	16	e21	e21	e22	59	214	866	67	17	12
4	16	25	18	e21	e18	e22	77	255	750	60	15	11
5	15	25	16	18	e22	e20	67	373	767	47	22	11
6	14	24	e19	20	e21	e23	55	498	682	44	29	12
7	13	e23	e20	19	e20	e23	52	633	594	40	28	11
8	13	e24	e21	e22	e20	e23	52	689	599	34	22	11
9	13	e24	e20	e22	e21	24	54	697	566	32	20	12
10	13	e24	e21	e22	e20	25	55	725	548	29	22	12
11	12	e25	e20	e21	e21	26	49	766	518	25	27	13
12	12	e24	e20	e21	e21	34	46	784	480	24	29	21
13	12	24	e20	e22	e21	37	45	731	437	29	24	19
14	13	24	e21	e22	e21	31	46	761	390	25	25	17
15	14	25	e22	e22	e22	36	45	777	378	23	23	15
16	14	24	e20	e22	e22	41	49	822	367	21	18	18
17	15	25	16	e21	e22	43	73	854	338	18	15	18
18	15	e24	17	e22	e22	45	113	876	329	17	13	16
19	21	e24	e17	e21	e20	49	144	824	391	22	14	129
20	21	e25	e18	e22	e22	56	189	796	349	23	14	90
21	18	e24	18	e22	e18	62	209	807	379	21	13	115
22	17	e23	16	e22	e20	64	158	792	302	20	13	87
23	20	e23	18	e21	e22	72	150	699	252	18	13	67
24	19	e22	18	e22	e24	76	150	756	209	20	13	46
25	21	e22	e22	e22	e22	55	138	841	173	20	12	36
26	23	e22	e23	e23	e25	51	175	700	146	18	12	33
27	22	18	e22	e22	e25	56	203	578	131	17	15	73
28	32	e22	22	e21	e24	50	377	522	122	18	17	44
29	26	e22	22	e22	---	52	417	742	111	19	15	33
30	32	e22	22	e21	---	48	286	841	97	20	13	30
31	25	---	21	e22	---	56	---	762	---	20	12	---
TOTAL	546	699	607	665	601	1266	3656	20602	13117	951	566	1036
MEAN	17.6	23.3	19.6	21.5	21.5	40.8	122	665	437	30.7	18.3	34.5
MAX	32	25	23	23	25	76	417	876	937	86	29	129
MIN	12	18	16	18	18	20	45	214	97	17	12	11
AC-FT	1080	1390	1200	1320	1190	2510	7250	40860	26020	1890	1120	2050

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1997, BY WATER YEAR (WY)

MEAN	19.8	19.1	17.3	17.0	18.4	27.9	117	379	255	38.5	9.95	11.7
MAX	62.4	49.2	44.1	36.9	46.5	79.2	323	801	660	189	38.4	55.0
(WY)	1986	1985	1985	1985	1986	1986	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1932 - 1997	
ANNUAL TOTAL	34592.2		44312			
ANNUAL MEAN	94.5		121		77.8	
HIGHEST ANNUAL MEAN					157	1984
LOWEST ANNUAL MEAN					20.5	1934
HIGHEST DAILY MEAN	1320	May 17	937	Jun 2	1500	May 16 1984
LOWEST DAILY MEAN	3.3	Sep 23	[a]11	Sep 4	[b].00	Aug 2 1934
ANNUAL SEVEN-DAY MINIMUM	4.2	Aug 30	11	Sep 2	.00	Aug 2 1934
INSTANTANEOUS PEAK FLOW			1150	Jun 2	[c]2250	May 16 1984
INSTANTANEOUS PEAK STAGE			9.69	Jun 2	[d]11.78	May 16 1984
ANNUAL RUNOFF (AC-FT)	68610		87890		56340	
10 PERCENT EXCEEDS	299		506		252	
50 PERCENT EXCEEDS	21		23		19	
90 PERCENT EXCEEDS	8.5		15		7.0	

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.

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY

LOCATION.--Lat 41°01'42", long 107°32'55", in SE¼ NW¼ sec.8, T.12 N., R.90 W., Carbon County, Hydrologic Unit 14050003, on left bank 200 ft upstream from highway bridge, 1,000 ft upstream from Willow Creek, and 0.8 mi west of Dixon.

DRAINAGE AREA.--988 mi^2.

PERIOD OF RECORD.--May 1910 to September 1923, March 1938 to current year. No winter records since 1971. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1920(M). WDR WY-85-1: 1984(M).

GAGE.--Water-stage recorder. Datum of gage is 6,331.22 ft above sea level. May 27, 1910 to Sept. 30, 1923, nonrecording gage on highway bridge 200 ft downstream at datum 2.98 ft higher; Mar. 15, 1938 to Sept. 30, 1957, water-stage recorder at site 225 ft downstream at datum 2.98 ft higher; Oct. 1, 1957 to June 6, 1968, at site 850 ft downstream at present datum; and June 7 to Sept. 30, 1968, at site 225 ft downstream at present datum.

REMARKS.--Records fair except those daily estimated daily discharges below 10 ft^3/s, which are poor. Diversions for irrigation of about 9,500 acres upstream from station. One diversion upstream from station for irrigation of about 3,000 acres downstream. Transbasin diversions upstream from station. National Weather Service satellite telemeter at station. Results of discharge measurements, in cubic feet per second, made during the period when the station was not in operation, are given below:

Oct. 3 . . . 0.31
Nov. 20 . . .175

COOPERATION.--Records provided by Office of the Wyoming State Engineer and reviewed by the Geological Survey.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,200 ft^3/s and maximum (*) during period of operation:

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 2	1400	*5,870	*10.37

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	e2500	4860	918	22	1.3
2	---	---	---	---	---	---	---	e2300	5540	780	18	1.9
3	---	---	---	---	---	---	---	e2100	5610	658	9.0	1.8
4	---	---	---	---	---	---	---	e2400	5380	576	4.1	.98
5	---	---	---	---	---	---	---	e2600	5080	503	14	.66
6	---	---	---	---	---	---	---	2960	4660	443	69	.54
7	---	---	---	---	---	---	---	4100	4250	355	48	.53
8	---	---	---	---	---	---	---	3880	4150	298	20	.47
9	---	---	---	---	---	---	---	3700	4330	267	9.4	.38
10	---	---	---	---	---	---	---	3990	3950	244	9.2	.33
11	---	---	---	---	---	---	---	3920	3910	221	42	.32
12	---	---	---	---	---	---	---	4070	3650	201	64	.65
13	---	---	---	---	---	---	---	3910	3330	209	60	5.1
14	---	---	---	---	---	---	---	4100	2970	193	40	2.5
15	---	---	---	---	---	---	---	4100	2940	157	29	1.2
16	---	---	---	---	---	---	---	4330	2640	118	15	1.5
17	---	---	---	---	---	---	---	4640	2490	78	8.3	6.8
18	---	---	---	---	---	---	---	4750	2470	62	8.5	4.8
19	---	---	---	---	---	---	---	4570	2870	59	9.5	246
20	---	---	---	---	---	---	---	4360	2840	76	9.0	553
21	---	---	---	---	---	---	---	4190	2870	69	7.1	513
22	---	---	---	---	---	---	---	4220	2750	46	5.2	504
23	---	---	---	---	---	---	---	3840	2500	36	4.3	346
24	---	---	---	---	---	---	---	3880	2150	40	2.9	267
25	---	---	---	---	---	---	---	4170	1840	42	1.7	207
26	---	---	---	---	---	---	---	3790	1600	35	1.4	175
27	---	---	---	---	---	---	---	3310	1450	23	1.8	271
28	---	---	---	---	---	---	---	3020	1310	18	3.3	236
29	---	---	---	---	---	---	---	3440	1180	20	5.9	177
30	---	---	---	---	---	---	---	4790	1030	34	2.2	152
31	---	---	---	---	---	---	---	4360	---	22	1.0	---
TOTAL	---	---	---	---	---	---	---	116290	96600	6801	544.8	3678.76
MEAN	---	---	---	---	---	---	---	3751	3220	219	17.6	123
MAX	---	---	---	---	---	---	---	4790	5610	918	69	553
MIN	---	---	---	---	---	---	---	2100	1030	18	1.0	.32
AC-FT	---	---	---	---	---	---	---	230700	191600	13490	1080	7300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1997, BY WATER YEAR (WY)

MEAN	73.8	94.3	88.8	85.4	101	215	851	2534	1845	216	26.8	26.1
MAX	282	245	160	130	433	744	2155	6085	4362	1160	229	180
(WY)	1917	1921	1921	1917	1962	1919	1985	1984	1984	1917	1984	1984
MIN	1.18	36.3	45.0	37.1	47.8	82.8	236	388	181	1.62	.33	.21
(WY)	1990	1956	1923	1963	1967	1965	1973	1977	1987	1994	1992	1980

SUMMARY STATISTICS	FOR 1997 WATER YEAR*		WATER YEARS 1911 - 1971	
ANNUAL MEAN	--		514	
HIGHEST ANNUAL MEAN	--		930	1920
LOWEST ANNUAL MEAN	--		212	1961
HIGHEST DAILY MEAN	5610	Jun 3	10400	May 16 1984#
LOWEST DAILY MEAN	.32	Sep 11	.20	Sep 26 1956#
ANNUAL SEVEN-DAY MINIMUM	--		.35	Sep 3 1969
INSTANTANEOUS PEAK FLOW	5870	Jun 2	[a]13000	May 16 1984#
INSTANTANEOUS PEAK STAGE	10.37	Jun 2	[b]13.56	May 16 1984#
ANNUAL RUNOFF (AC-FT)	--		372600	
10 PERCENT EXCEEDS	--		1850	
50 PERCENT EXCEEDS	--		100	
90 PERCENT EXCEEDS	--		8.0	
90 PERCENT EXCEEDS			8.0	

e-Estimated.
*-During period of operation.
#-For period of record through 1997.
a-From rating curve extended above 10,000 ft^3/s, some increase in peak caused by dam failure.
b-From floodmarks.

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 1996 TO SEPTEMBER 1997

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)
MAY									
12...	1115	4450	136	8.2	6.5	21.0	612	8.7	88
JUN									
05...	1210	5200	109	7.8	10.5	25.0	605	8.5	96
JUL									
16...	1430	147	235	8.3	22.5	27.5	611	8.1	118
AUG									
19...	1435	33	383	8.6	22.5	26.5	615	8.9	128

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)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
MAY								
12...	56	16	3.7	4.3	0.3	1.2	60	12
JUN								
05...	38	11	2.6	3.8	0.3	0.9	44	7.6
JUL								
16...	87	25	6.1	10	0.5	1.4	95	17
AUG								
19...	140	38	11	22	0.8	2.2	158	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)
MAY								
12...	1.1	0.1	12	87	0.12	1050	951	11400
JUN								
05...	0.8	<0.1	10	63	0.09	888	932	13100
JUL								
16...	2.2	0.2	17	136	0.18	53.8	10	4.0
AUG								
19...	5.5	0.3	5.5	215	0.29	19.2	24	2.1

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 fair except for estimated daily discharges, which are poor. Diversions for irrigation of about 21,000 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	179	e142	e147	e222	e250	667	2220	4640	1110	146	79
2	32	156	e140	e146	e205	e300	702	2050	4710	1020	142	79
3	39	165	e141	e143	e207	e340	806	1980	4880	922	143	78
4	51	213	e135	e150	e209	e400	628	1960	5020	835	136	79
5	62	242	e139	e94	e215	e450	731	1920	4900	745	136	79
6	58	296	e134	e100	e210	e550	805	e2050	4810	661	131	79
7	59	278	e130	e113	e206	e650	643	e3020	4810	601	131	80
8	66	210	e129	e120	e215	e750	471	e4150	4690	588	136	e80
9	68	171	e125	e130	e217	e850	566	4360	4660	577	139	e82
10	66	205	e126	e143	e215	e950	667	4310	4750	567	138	e82
11	64	253	e125	e150	e217	e1150	642	4340	4450	556	133	e93
12	68	239	e120	e165	e220	e1250	589	4470	4280	546	124	e95
13	63	282	e115	e170	e220	e1350	539	4620	4010	539	124	e92
14	59	263	e117	e165	e227	e1450	491	4530	3750	e470	139	e98
15	53	268	e110	e170	e215	e1500	490	4510	3470	e330	129	e108
16	48	299	e115	e179	e224	e1520	603	4520	3330	e325	126	e110
17	55	287	e107	e179	e230	e1540	637	4520	3110	322	121	e117
18	65	234	e90	e177	e226	e1560	621	4680	2920	309	117	e121
19	61	e216	e92	e173	e231	e1580	693	4790	2760	291	114	e125
20	71	e224	e85	e185	e235	e1600	961	4740	2700	268	108	e350
21	73	e230	e89	e191	e231	1610	1160	4590	2620	254	104	e580
22	77	e220	e75	e195	e244	1710	1390	4460	2440	247	101	e1080
23	91	e215	e70	e200	e247	1800	1610	4480	2300	239	99	831
24	104	e203	e81	e205	e254	1240	1550	4300	2090	228	97	775
25	111	e197	e90	e209	e250	978	1580	4180	1900	233	94	700
26	109	e180	e104	e215	e257	977	1650	4320	1730	217	92	535
27	87	e178	e105	e210	e252	665	1490	4290	1580	200	91	413
28	53	e165	e122	e215	e220	662	1650	4150	1450	188	91	407
29	153	e160	e130	e231	---	588	1900	4050	1330	182	90	406
30	217	e145	e141	e227	---	664	2200	4090	1220	168	81	385
31	177	---	e144	e219	---	593	---	4720	---	156	78	---
TOTAL	2382	6573	3568	5316	6321	31477	29132	121370	101310	13894	3631	8218
MEAN	76.8	219	115	171	226	1015	971	3915	3377	448	117	274
MAX	217	299	144	231	257	1800	2200	4790	5020	1110	146	1080
MIN	22	145	70	94	205	250	471	1920	1220	156	78	78
AC-FT	4720	13040	7080	10540	12540	62430	57780	240700	200900	27560	7200	16300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1997, BY WATER YEAR (WY)

MEAN	113	120	98.2	89.3	122	379	1076	2583	1905	305	69.7	56.1
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1922 - 1997	
ANNUAL TOTAL	203323.6		333192			
ANNUAL MEAN	556		913		578	
HIGHEST ANNUAL MEAN					1252	1984
LOWEST ANNUAL MEAN					110	1934
HIGHEST DAILY MEAN	5460	May 19	5020	Jun 4	13400	May 18 1984
LOWEST DAILY MEAN	5.1	Sep 4	22	Oct 1	[a].00	Jul 30 1924
ANNUAL SEVEN-DAY MINIMUM	6.6	Aug 30	46	Oct 1	.00	Jul 30 1924
INSTANTANEOUS PEAK FLOW			5080	Jun 4	16700	May 18 1984
INSTANTANEOUS PEAK STAGE			5.87	Jun 4	[b]9.85	May 18 1984
ANNUAL RUNOFF (AC-FT)	403300		660900		418500	
10 PERCENT EXCEEDS	2300		4030		1960	
50 PERCENT EXCEEDS	115		227		127	
90 PERCENT EXCEEDS	12		82		12	

e-Estimated.
a-Also occurred, Jul 31 to Sep 11, Sep 13-20, 1924, Aug 25-29, Aug 31 to Sep 13, and Sep 28-29, 1994.
b-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 current year.

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.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT										
15...	1225	60	170	27	--	--	--	--	--	94
NOV										
18...	1310	254	2550	1750	--	--	--	--	--	99
DEC										
23...	1130	67	169	31	--	--	--	--	--	95
FEB										
26...	1410	231	209	130	--	--	--	--	--	97
MAR										
21...	0745	1210	4420	14400	83	86	94	99	100	--
25...	1400	958	1640	4240	--	--	--	--	--	100
APR										
03...	1045	885	733	1750	--	--	--	--	--	97
18...	1015	620	3200	5360	78	80	86	94	100	--
MAY										
07...	1645	3060	1440	11900	93	99	100	--	--	--
08...	1035	4480	1770	21400	90	99	100	100	--	--
14...	1035	4410	1120	13300	84	96	100	100	100	--
27...	1045	4290	490	5680	84	97	100	--	--	--
JUN										
10...	1102	4880	979	12900	85	97	100	--	--	--
JUL										
07...	1130	603	80	130	77	87	100	--	--	--
15...	1002	327	30	26	--	--	--	--	--	90
AUG										
06...	1008	128	150	52	--	--	--	--	--	97

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
APR				
07...	1150	651	509	6.0

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 (revised) 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 September 1997.

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e388	e638	e462	e497	e652	e640	2230	11500	17800	5010	1100	519
2	e374	e586	e490	e506	e645	e690	2560	8070	17300	4590	1200	505
3	e397	e623	e561	e513	e657	e740	2660	7480	18500	4020	1130	480
4	e400	e681	e465	e500	e639	e770	2540	6520	20100	3650	976	459
5	e417	e728	e399	e464	e625	e870	2820	5740	20200	3340	968	447
6	e388	e746	e464	e470	e600	e910	3330	6700	19200	3040	926	427
7	e386	e732	e480	e493	e596	e940	2740	8290	18100	2830	964	453
8	e392	e652	e529	e510	e615	e1020	2320	10900	e16700	2690	1240	453
9	e377	e551	e545	e520	e607	e1040	2240	12500	e16000	2540	1250	431
10	e355	e535	e636	e543	e615	e1120	2280	12400	e16300	2360	1170	445
11	e349	e613	e665	e540	e597	1710	2500	12500	15500	2200	1190	445
12	e349	e649	e700	e555	e600	2490	2200	12900	14900	2070	1370	429
13	e332	e702	e645	e550	e610	3630	1860	13600	14100	1960	1750	403
14	e324	e663	e707	e575	e607	3200	1690	13300	12700	1870	1750	413
15	e299	e668	e600	e600	e605	2060	1620	13300	11400	1850	1500	480
16	e299	e729	e505	e589	e604	1750	1680	13600	10800	1680	1490	505
17	e327	e757	e467	e579	e620	1570	1900	14100	10000	1550	1250	527
18	e337	e694	e460	e581	e646	2100	2540	15100	9530	1490	1060	538
19	e363	e666	e442	e583	e721	2250	3820	16200	9600	1420	942	944
20	e387	e694	e415	e605	e695	e2480	5260	16700	10200	e1510	873	1190
21	e361	e720	e439	e601	e641	e3240	6780	16100	11400	e1520	845	5870
22	e392	e720	e375	e605	e644	e4140	8000	15300	11300	e1450	811	7590
23	e448	e735	e280	e600	e677	e4470	7100	15100	10900	e1340	736	5730
24	e459	e803	e341	e605	e654	e3850	5800	14700	9990	1170	677	4020
25	e468	e967	e390	e599	e640	e3720	5540	14400	8950	1160	645	3130
26	e476	e970	e434	e625	e657	2700	5530	14600	7950	1210	620	2470
27	e441	e828	e465	e610	e652	2150	5120	13700	7110	1100	598	2080
28	e448	e735	e492	e625	e620	2180	5730	11600	6470	1090	572	2110
29	e575	e680	e510	e651	---	2320	7290	10000	5930	1040	590	2380
30	e619	e535	e521	e677	---	2320	10800	10700	5510	1010	577	1950
31	e587	---	e514	e679	---	2290	---	16200	---	1140	521	---
TOTAL	12514	21000	15398	17650	17741	65360	118480	383800	384440	64900	31291	47823
MEAN	404	700	497	569	634	2108	3949	12380	12810	2094	1009	1594
MAX	619	970	707	679	721	4470	10800	16700	20200	5010	1750	7590
MIN	299	535	280	464	596	640	1620	5740	5510	1010	521	403
AC-FT	24820	41650	30540	35010	35190	129600	235000	761300	762500	128700	62070	94860

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1997, BY WATER YEAR (WY)

MEAN	573	619	455	417	584	1466	3798	8553	7502	1832	563	430
MAX	1084	1127	832	660	1811	3200	8211	18330	16120	5890	1537	1594
(WY)	1987	1986	1985	1986	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 WATER YEAR		WATER YEARS 1983 - 1997	
ANNUAL TOTAL	1180397			
ANNUAL MEAN	3234		2236	
HIGHEST ANNUAL MEAN			4286	1984
LOWEST ANNUAL MEAN			1062	1992
HIGHEST DAILY MEAN	20200	Jun 5	32300	May 18 1984
LOWEST DAILY MEAN	e280	Dec 23	29	Sep 11 1989
ANNUAL SEVEN-DAY MINIMUM	324	Oct 12	36	Sep 5 1989
INSTANTANEOUS PEAK FLOW	20400	Jun 4	33200	May 18 1984
INSTANTANEOUS PEAK STAGE	13.39	Jun 4	19.13	May 18 1984
ANNUAL RUNOFF (AC-FT)	2341000		1620000	
10 PERCENT EXCEEDS	11400		6620	
50 PERCENT EXCEEDS	870		685	
90 PERCENT EXCEEDS	442		222	

e-Estimated.

09260050 YAMPA RIVER AT DEERLODGE PARK, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1975 to September 1982. August 1976 published in the 1977 report as "at Deerlodge Park," November 1977 to September 1981 published as "09260025, below Little Snake River." October 1996 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1979 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. August 1975 to August 1976, water quality data collected at present site. November 1977 to April 1980, all water-quality data collected approximately 3.5 mi upstream. May 1980 to April 21, 1981 and October 1996 to current year, all water-quality data 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 1996 TO SEPTEMBER 1997

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)
NOV												
08...	1100	633	595	8.3	0.5	12.7	132	--	170	41	16	64
MAR												
20...	1300	2320	643	8.1	7.5	10.5	120	K74	180	42	19	59
JUN												
03...	1100	17600	193	8.1	16.5	9.6	70	50	75	19	6.4	6.9
AUG												
19...	1100	953	404	8.5	19.0	9.2	K11	K14	140	34	14	24

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE[a] WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE[b] WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA-LINITY[c] WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA-LINITY[d] 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											
08...	2	2.0	--	--	--	154	120	22	0.3	7.0	366
MAR											
20...	2	2.9	--	--	--	127	170	14	0.3	8.6	395
JUN											
03...	0.3	1.3	--	--	--	67	26	1.7	<0.1	9.6	112
AUG											
19...	0.9	2.0	132	2	111	--	73	8.9	0.2	7.9	230

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 DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
NOV											
08...	0.50	625	0.02	0.25	0.030	--	0.3	<0.2	0.19	<0.01	<0.01
MAR											
20...	0.54	2470	<0.01	0.68	<0.015	--	0.7	0.4	0.23	0.05	0.04
JUN											
03...	0.15	5320	<0.01	0.06	0.020	0.19	0.4	0.2	0.05	<0.01	0.02
AUG											
19...	0.31	591	<0.01	<0.05	<0.015	--	0.3	<0.2	<0.01	<0.01	<0.01

K-Based on non-ideal colony count.
a-Field dissolved bicarbonate, determined by incremental titration method.
b-Field dissolved carbonate, determined by incremental titration method.
c-Field total dissolved alkalinity, determined by incremental titration method.
d-Lab total dissolved alkalinity, determined by fixed end point titration method.

09260050 YAMPA RIVER AT DEERLODGE PARK, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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										
08...	<1	1	36000	<1	850	<1	<0.1	<1	<0.2	<3
MAR										
20...	<1	2	25000	<1	790	3	<0.1	2	<0.2	<3
JUN										
03...	<1	2	6100	<1	170	<1	<0.1	<1	<0.2	3.1
AUG										
19...	<1	2	300	<1	28	<1	<0.1	<1	<0.2	<3

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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					AUG				
15...	0937	282	590	9.5	21...	1020	799	441	22.0
APR									
08...	1025	2400	674	6.0					

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV										
08...	1100	633	2300	3930	--	--	--	--	--	100
MAR										
20...	1300	2320	2310	14500	87	89	93	98	100	--
MAY										
28...	0930	12500	635	21400	73	85	99	100	--	--
JUN										
03...	1100	17600	536	25500	83	93	98	100	--	--
AUG										
19...	1100	953	175	450	48	54	73	100	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.--Records good except for estimated daily discharges, which are fair. Diversions upstream from station for irrigation of about 900 acres, and 300 acres downstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	205	191	e175	173	170	158	216	457	1410	686	408	303
2	201	194	e181	174	167	159	210	398	1500	645	388	302
3	203	198	e157	187	169	158	207	367	1530	615	379	295
4	201	202	e181	179	170	158	227	417	1460	594	388	301
5	199	202	e183	176	165	157	216	586	1470	581	408	303
6	196	188	e198	192	165	159	201	767	1450	566	417	302
7	195	179	e197	192	162	158	198	926	1350	540	386	301
8	192	187	200	192	162	157	195	950	1320	526	368	290
9	192	185	196	192	166	157	199	997	1280	510	361	279
10	190	183	180	193	167	158	198	1040	1250	507	472	278
11	190	182	183	198	173	160	185	1090	1290	499	494	286
12	190	182	180	187	167	163	182	1150	1220	490	476	297
13	188	182	178	198	168	165	182	1130	1200	493	434	289
14	191	182	e177	e200	163	162	184	1090	1150	476	411	280
15	190	195	e169	e195	163	161	188	1110	1090	459	388	276
16	193	191	e170	e195	164	165	203	1220	1020	449	370	316
17	193	187	e175	e190	161	171	239	1320	1010	444	365	288
18	189	186	e180	e195	161	170	288	1330	1040	464	359	349
19	201	188	e185	e200	160	173	340	1320	1090	505	357	565
20	201	190	e188	e210	162	183	389	1220	1130	441	347	798
21	184	188	197	e200	157	196	436	1230	1150	425	346	807
22	185	202	205	e200	154	201	361	1210	1140	415	345	598
23	189	209	195	e190	175	215	323	1130	1130	416	331	502
24	189	189	215	e190	159	226	310	1090	1060	436	324	445
25	192	187	e200	e190	158	200	295	1030	963	408	322	413
26	195	187	e200	e180	160	200	322	946	877	395	334	438
27	190	169	194	176	160	210	354	844	832	390	326	473
28	191	172	187	171	159	203	494	798	799	391	316	401
29	202	195	177	172	---	210	615	1080	755	409	318	382
30	194	180	175	172	---	201	517	1180	728	398	311	365
31	193	---	174	171	---	209	---	1250	---	462	307	---
TOTAL	6004	5652	5752	5830	4587	5523	8474	30673	34694	15035	11556	11522
MEAN	194	188	186	188	164	178	282	989	1156	485	373	384
MAX	205	209	215	210	175	226	615	1330	1530	686	494	807
MIN	184	169	157	171	154	157	182	367	728	390	307	276
AC-FT	11910	11210	11410	11560	9100	10950	16810	60840	68820	29820	22920	22850

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1997, BY WATER YEAR (WY)

MEAN	198	183	169	162	156	160	276	775	854	400	247	209
MAX	323	273	257	234	240	237	584	1749	1618	1131	447	384
(WY)	1985	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1910 - 1997	
ANNUAL TOTAL	127047		145302			
ANNUAL MEAN	347		398		316	
HIGHEST ANNUAL MEAN					523	1984
LOWEST ANNUAL MEAN					157	1977
HIGHEST DAILY MEAN	1690	May 17	1530	Jun 3	3150	May 30 1912
LOWEST DAILY MEAN	153	Mar 9	154	Feb 22	90	Feb 21 1955
ANNUAL SEVEN-DAY MINIMUM	155	Mar 4	158	Mar 3	106	Jul 26 1977
INSTANTANEOUS PEAK FLOW			1760	Jun 3	3550	May 24 1984
INSTANTANEOUS PEAK STAGE			6.08	Jun 3	[a]6.76	May 24 1984
ANNUAL RUNOFF (AC-FT)	252000		288200		229100	
10 PERCENT EXCEEDS	914		1080		729	
50 PERCENT EXCEEDS	201		203		196	
90 PERCENT EXCEEDS	162		167		140	

e-Estimated.
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 1982 to September 1992. October 1994 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
DEC										
20...	1300	156	339	8.2	0.0	11.0	0.90	K39	--	--
APR										
25...	0900	284	325	8.2	2.0	11.5	0.66	K15	K5	--
JUN										
10...	1545	1200	165	8.1	10.0	11.1	0.89	K17	--	75
AUG										
04...	1300	371	273	8.4	14.0	9.1	0.78	28	--	--
SEP										
10...	1500	281	291	8.5	16.0	9.4	0.70	25	--	140

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	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										
20...	--	--	0.01	0.14	0.020	<0.2	<0.2	<0.01	<0.01	0.02
APR										
25...	--	--	<0.01	0.17	<0.015	0.2	<0.2	0.02	0.02	0.01
JUN										
10...	22	4.8	<0.01	0.07	<0.015	0.2	<0.2	<0.01	<0.01	0.01
AUG										
04...	--	--	<0.01	0.06	0.020	<0.2	<0.2	<0.01	<0.01	0.02
SEP										
10...	43	8.7	<0.01	<0.05	<0.015	<0.2	<0.2	<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)
JUN										
10...	160	15	<1	<100	<10	8.9	<1	<1	<1	2
SEP										
10...	30	<10	<1	<100	<10	<4.0	<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									
10...	170	<1	<10	<10	<1	<1	<1	190	<10
SEP									
10...	60	<1	<10	<10	1	<1	<1	420	<10

K-Based on non-ideal colony count.

09303000 NORTH FORK WHITE RIVER AT BUFORD, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
FEB				
10...	1140	136	370	0.0
APR				
14...	1310	195	361	4.0
MAY				
08...	1015	885	205	4.0
23...	0930	1030	183	5.0
JUN				
23...	1330	1040	161	12.5
SEP				
09...	1444	279	294	14.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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				
20...	1300	156	3	1.1
APR				
25...	0900	284	420	322
JUN				
10...	1545	1200	41	133
AUG				
04...	1300	371	4	3.8
SEP				
10...	1500	281	0.3	0.2

09304000 SOUTH FORK WHITE RIVER AT BUFORD, CO

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.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1919 to December 1920 (monthly discharge only, published in WSP 1313), October 1951 to September 1997 (discontinued).

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,970 ft above sea level, from topographic map. Prior to Nov. 30, 1920, nonrecording gage at site 200 ft downstream, at different datum. Oct. 1951 to Apr. 1981, at site 50 ft downstream, at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions upstream for irrigation of about 1,100 acres.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	125	124	128	113	100	137	221	1330	607	228	180
2	127	121	134	120	108	100	140	213	1710	546	210	175
3	134	130	118	130	109	104	137	202	1840	504	201	171
4	133	133	155	115	118	100	145	202	1850	469	216	174
5	130	130	197	118	108	98	138	237	1910	445	223	174
6	128	120	223	e120	105	96	126	286	1960	421	224	177
7	122	122	222	125	93	106	128	358	1860	397	212	186
8	117	137	174	113	94	104	130	426	1720	373	200	172
9	117	131	159	e120	e98	103	135	450	1570	355	196	166
10	116	123	151	e121	e100	102	133	485	1560	338	248	169
11	116	120	141	e120	e98	104	122	522	1660	328	262	172
12	118	121	135	e121	e96	108	118	576	1610	315	251	170
13	119	123	136	e122	e95	108	121	607	1550	311	243	164
14	117	123	131	e124	101	102	128	657	1420	291	251	162
15	115	129	117	e125	109	108	132	702	1330	276	222	160
16	121	129	127	e125	112	108	136	786	1280	268	204	189
17	124	130	120	e125	108	111	151	877	1230	260	207	184
18	118	129	126	e125	109	109	168	913	1270	266	223	184
19	132	130	e120	e120	102	114	177	995	1350	303	232	227
20	130	129	e115	e120	108	120	196	1020	1550	260	220	405
21	109	128	e120	e120	96	125	214	1080	1430	236	210	550
22	124	147	e120	e121	90	129	204	1160	1370	226	213	474
23	132	153	e120	e121	118	134	197	1120	1270	231	202	410
24	126	134	e125	e121	109	142	197	1140	1140	230	195	351
25	130	132	e125	e122	97	125	185	1090	968	215	192	317
26	130	133	e130	e122	106	130	187	961	877	205	203	300
27	125	106	129	e125	113	131	186	824	794	203	200	355
28	128	115	130	e125	106	129	222	755	770	202	199	305
29	136	155	132	120	---	135	238	826	712	221	199	283
30	126	134	125	e125	---	126	226	1040	656	215	195	267
31	128	---	124	127	---	131	---	1130	---	253	186	---
TOTAL	3855	3872	4305	3786	2919	3542	4854	21861	41547	9770	6667	7373
MEAN	124	129	139	122	104	114	162	705	1385	315	215	246
MAX	136	155	223	130	118	142	238	1160	1960	607	262	550
MIN	109	106	115	113	90	96	118	202	656	202	186	160
AC-FT	7650	7680	8540	7510	5790	7030	9630	43360	82410	19380	13220	14620

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919 - 1997, BY WATER YEAR (WY)

MEAN	128	118	109	103	105	107	158	616	1015	315	161	133
MAX	240	209	170	150	150	167	287	1072	1889	1119	276	246
(WY)	1985	1985	1921	1987	1984	1986	1962	1969	1978	1957	1920	1997
MIN	90.1	84.9	72.2	70.4	77.7	77.3	104	328	194	92.2	88.9	85.0
(WY)	1978	1991	1994	1981	1991	1992	1968	1957	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1919 - 1997	
ANNUAL TOTAL	94030		114351			
ANNUAL MEAN	257		313		256	
HIGHEST ANNUAL MEAN					363	1985
LOWEST ANNUAL MEAN					129	1977
HIGHEST DAILY MEAN	1370	Jun 6	1960	Jun 6	2970	Jun 25 1983
LOWEST DAILY MEAN	e66	Jan 1	90	Feb 22	47	Jan 15 1981
ANNUAL SEVEN-DAY MINIMUM	72	Jan 1	96	Feb 7	62	Jan 10 1981
INSTANTANEOUS PEAK FLOW			2190	Jun 6	3150	Jun 26 1983
INSTANTANEOUS PEAK STAGE			5.56	Jun 6	a6.27	Jun 26 1983
ANNUAL RUNOFF (AC-FT)	186500		226800		185200	
10 PERCENT EXCEEDS	770		891		634	
50 PERCENT EXCEEDS	130		137		128	
90 PERCENT EXCEEDS	106		109		90	

e-Estimated.
a-Maximum gage height, 7.07 ft, Jun 30, 1957, site and datum then in use.

09304000 SOUTH FORK WHITE RIVER AT BUFORD, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1984 to September 1992. October 1994 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
DEC										
20...	1400	e115	351	8.3	0.5	10.6	0.1	K24	--	--
APR										
25...	1100	184	283	8.0	4.5	11.5	0.4	K24	K15	--
JUN										
10...	1700	1530	190	8.3	8.0	10.9	0.8	K10	--	94
AUG										
04...	1200	217	284	8.4	14.5	9.2	0.6	K6	--	--
SEP										
10...	1400	167	265	8.7	15.0	9.4	0.6	29	--	--

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	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										
20...	--	--	<0.01	0.06	0.020	<0.2	<0.2	<0.01	<0.01	<0.01
APR										
25...	--	--	<0.01	<0.05	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
JUN										
10...	27	6.3	<0.01	0.10	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
AUG										
04...	--	--	<0.01	0.05	0.020	<0.2	<0.2	<0.01	<0.01	0.02
SEP										
10...	--	--	<0.01	<0.05	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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				
31...	1100	122	261	1.0
FEB				
10...	1045	58	335	0.0
APR				
14...	1225	112	297	5.0
MAY				
08...	0840	409	236	5.5
23...	0745	1120	220	4.5
JUN				
02...	1155	1850	200	5.5
23...	1155	1270	160	8.5
SEP				
09...	1348	169	268	15.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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				
20...	1400	e115	17	--
APR				
25...	1100	184	6	3.2
JUN				
10...	1700	1530	45	187
AUG				
04...	1200	217	6	3.6
SEP				
10...	1400	167	0.6	0.27

e-Estimated.
K-Based on non-ideal colony count.

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. Water-quality data available, March 1970 to September 1992.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	319	362	307	298	311	272	372	795	2880	1280	540	e320
2	324	356	342	299	301	267	373	742	3530	1140	567	e315
3	336	370	299	328	308	283	360	699	3690	1070	535	e300
4	328	379	317	314	291	277	389	727	3560	1010	456	e295
5	320	375	307	254	292	259	377	926	3630	983	442	e300
6	311	354	327	279	293	269	346	1180	3520	945	451	e295
7	305	321	325	233	265	271	341	1530	3290	896	415	e320
8	300	344	319	304	258	272	349	1700	3130	854	384	e310
9	296	353	320	321	274	272	355	1730	2990	801	372	e300
10	296	345	333	338	286	269	361	1800	2990	749	508	e290
11	298	341	331	333	310	276	329	1860	3050	726	578	e295
12	305	341	319	303	289	288	316	2050	3050	726	584	e320
13	321	342	318	310	290	290	313	2150	3060	724	532	e305
14	322	342	320	327	265	276	329	2210	2890	689	508	e310
15	324	367	282	341	292	283	336	2100	2740	689	467	e310
16	336	363	301	315	280	289	344	2290	2590	680	434	e390
17	340	347	255	299	289	303	387	2490	2500	666	405	e425
18	322	366	224	342	289	297	446	2560	2550	683	396	e480
19	354	369	279	362	268	300	500	2620	2680	778	415	e930
20	356	364	280	365	288	314	558	2550	2880	680	396	e1410
21	318	360	355	353	265	335	627	2580	2730	631	377	e1620
22	314	386	351	345	246	343	565	2670	2610	626	383	e1360
23	345	419	365	333	279	357	527	2510	2530	593	354	e1080
24	340	372	350	315	287	385	522	2470	2340	637	e325	e880
25	352	360	345	293	265	340	493	2320	2050	595	e320	e770
26	356	360	344	321	271	343	526	2110	1820	575	e350	e730
27	341	319	325	316	291	358	548	1780	1690	567	e370	e900
28	362	291	314	284	285	339	727	1690	1620	571	e355	e775
29	387	344	308	309	---	360	889	2010	1510	614	e350	e655
30	365	351	303	288	---	337	837	2410	1410	580	e340	e595
31	366	---	304	305	---	354	---	2620	---	615	e330	---
TOTAL	10259	10663	9769	9727	7928	9478	13742	59879	81510	23373	13239	17585
MEAN	331	355	315	314	283	306	458	1932	2717	754	427	586
MAX	387	419	365	365	311	385	889	2670	3690	1280	584	1620
MIN	296	291	224	233	246	259	313	699	1410	567	320	290
AC-FT	20350	21150	19380	19290	15730	18800	27260	118800	161700	46360	26260	34880

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1997, BY WATER YEAR (WY)

MEAN	347	335	300	286	281	301	508	1511	1786	595	298	265
MAX	585	488	424	404	387	448	1034	2785	3526	1924	759	586
(WY)	1985	1987	1986	1986	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1962 - 1997	
ANNUAL TOTAL	234242		267152			
ANNUAL MEAN	640		732		568	
HIGHEST ANNUAL MEAN					966	1984
LOWEST ANNUAL MEAN					208	1977
HIGHEST DAILY MEAN	3840	May 21	3690	Jun 3	5360	Jun 26 1983
LOWEST DAILY MEAN	101	Sep 4	224	Dec 18	[a]6.5	Jul 19 1977
ANNUAL SEVEN-DAY MINIMUM	114	Aug 30	270	Mar 5	8.8	Jul 16 1977
INSTANTANEOUS PEAK FLOW			4000	Jun 3	5740	Jun 26 1983
INSTANTANEOUS PEAK STAGE			6.09	Jun 3	7.07	Jun 26 1983
ANNUAL RUNOFF (AC-FT)	464600		529900		411700	
10 PERCENT EXCEEDS	1770		2240		1400	
50 PERCENT EXCEEDS	350		354		325	
90 PERCENT EXCEEDS	263		288		216	

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.--July 1978 to September 1984, October 1986 to September 1992, October 1994 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1978 to September 1984.
WATER TEMPERATURE: 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 1996 TO SEPTEMBER 1997

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)
DEC							
20...	1600	270	436	8.7	0.0	11.2	0.70
APR							
25...	1200	487	364	8.0	5.5	11.4	1.0
JUN							
10...	1415	3000	212	8.2	9.5	10.1	1.2
AUG							
04...	1400	396	352	8.4	14.5	9.6	1.1
SEP							
10...	1600	e290	365	8.6	16.0	9.4	0.87

DATE	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)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
DEC						
20...	K34	--	--	--	--	--
APR						
25...	82	K34	--	--	--	--
JUN						
10...	45	--	100	30	6.2	0.7
AUG						
04...	36	--	--	--	--	--
SEP						
10...	39	--	180	54	11	1.5

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 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								
20...	0.01	<0.05	0.02	<0.2	<0.2	<0.01	<0.01	<0.01
APR								
25...	<0.01	0.07	<0.01	0.2	<0.2	<0.01	<0.01	<0.01
JUN								
10...	<0.01	0.09	<0.01	0.3	<0.2	0.01	<0.01	<0.01
AUG								
04...	<0.01	<0.05	0.02	<0.2	<0.2	<0.01	<0.01	0.02
SEP								
10...	<0.01	<0.05	<0.01	<0.2	<0.2	<0.01	<0.01	<0.01

e-Estimated.
K-Based on non-ideal colony count.

09304200 WHITE RIVER ABOVE COAL CREEK NEAR MEEKER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
JUN										
10...	250	9.1	<1	<100	<10	10	<1	<1	<1	4
SEP										
10...	<10	<5	<1	<100	<10	<4	<1	<1	<1	3

DATE	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI) (01132)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR) (01082)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
JUN									
10...	270	<1	<10	11	<1	<1	<1	160	10
SEP									
10...	40	<1	<10	<10	1	<1	<1	460	<10

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT				
03...	1107	336	397	10.5
DEC				
05...	1410	321	425	0.5
FEB				
10...	1230	205	427	0.0
APR				
03...	1010	389	399	4.0
MAY				
08...	1210	1640	265	10.0
23...	1130	2420	225	7.5
JUN				
06...	0900	3550	200	8.5
23...	0955	2580	190	9.0
AUG				
04...	1020	471	351	14.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
DEC				
20...	1600	270	14	9.9
APR				
25...	1200	487	12	16
JUN				
10...	1415	3000	59	474
AUG				
04...	1400	396	4	4.2
SEP				
10...	1600	e290	1	---

e-Estimated.

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	413	406	345	360	349	341	486	993	3150	1330	650	474
2	411	402	379	358	340	331	486	938	3690	1210	623	468
3	433	414	339	390	347	349	478	872	3840	1110	585	456
4	422	432	360	377	339	346	542	863	3730	1050	559	450
5	412	427	345	315	340	330	531	1070	3890	1020	612	457
6	401	407	382	348	340	341	474	1360	3860	989	617	450
7	396	367	383	294	315	350	472	1770	3610	946	582	474
8	389	390	384	370	315	356	474	1950	3400	900	540	459
9	385	399	376	389	335	355	480	1950	3190	855	524	452
10	384	395	391	387	346	358	500	2020	3110	812	661	441
11	381	387	398	377	384	374	466	2060	3230	779	768	444
12	386	388	389	358	348	409	470	2240	3140	786	e850	468
13	392	389	386	352	353	425	470	2260	3050	771	e760	453
14	389	389	381	380	323	396	464	2290	2890	734	e670	459
15	391	411	347	391	350	403	455	2290	2700	726	e615	461
16	400	412	368	357	335	442	459	2500	2560	718	e560	540
17	411	387	325	343	350	451	503	2730	2460	713	e540	574
18	391	407	284	389	353	430	574	2830	2500	715	e530	630
19	416	421	328	412	330	426	637	2910	2630	865	579	e1080
20	426	420	338	430	352	439	715	2860	2840	763	554	e1560
21	388	410	461	407	330	461	801	2860	2770	705	536	e1770
22	377	423	439	399	311	471	784	3020	2630	665	535	e1510
23	410	477	434	368	348	488	710	2890	2580	643	509	1230
24	407	423	411	361	351	524	696	2790	2410	720	480	1030
25	419	403	399	344	329	470	657	2710	2110	702	475	918
26	424	402	401	365	347	471	673	2520	1890	675	505	878
27	404	366	381	359	356	485	688	2170	1750	677	525	1050
28	416	332	373	330	347	472	887	1980	1700	672	508	875
29	429	379	365	356	---	492	1110	2180	1580	701	505	807
30	411	390	361	332	---	455	1070	2590	1470	680	497	743
31	410	---	363	349	---	466	---	2740	---	724	483	---
TOTAL	12524	12055	11616	11347	9563	12907	18212	67206	84360	25356	17937	22061
MEAN	404	402	375	366	342	416	607	2168	2812	818	579	735
MAX	433	477	461	430	384	524	1110	3020	3890	1330	850	1770
MIN	377	332	284	294	311	330	455	863	1470	643	475	441
AC-FT	24840	23910	23040	22510	18970	25600	36120	133300	167300	50290	35580	43760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1997, BY WATER YEAR (WY)

MEAN	389	368	331	312	308	341	547	1557	1913	691	390	360
MAX	652	648	460	410	420	522	1094	2829	4091	2524	866	735
(WY)	1985	1929	1929	1929	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1910 - 1997	
ANNUAL TOTAL	248643		305144			
ANNUAL MEAN	679		836		626	
HIGHEST ANNUAL MEAN					1044	1984
LOWEST ANNUAL MEAN					274	1977
HIGHEST DAILY MEAN	3350	May 17	3890	Jun 5	6320	May 25 1984
LOWEST DAILY MEAN	217	Sep 4	284	Dec 18	78	Jul 16 1977
ANNUAL SEVEN-DAY MINIMUM	226	Aug 30	333	Feb 4	86	Jul 13 1977
INSTANTANEOUS PEAK FLOW			[a]4080	Jun 3	6950	May 25 1984
INSTANTANEOUS PEAK STAGE			[b]5.33	Jun 3	[c]6.12	May 25 1984
ANNUAL RUNOFF (AC-FT)	493200		605300		453700	
10 PERCENT EXCEEDS	1790		2430		1480	
50 PERCENT EXCEEDS	407		461		370	
90 PERCENT EXCEEDS	301		347		270	

e-Estimated.
a-Also occurred Jun 6.
b-Maximum gage height, 5.34 ft, Jun 6.
c-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 SW1/4NE1/4 sec.31, T.1 N., R.95 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 30 ft downstream from county bridge, 4.5 mi downstream from Strawberry Creek, and 10 mi west of Meeker.

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.--No estimated daily discharges. Records good. 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	435	439	358	384	302	318	490	1050	3200	1420	742	531
2	429	424	396	386	306	305	492	997	3680	1330	675	526
3	471	439	364	444	307	339	496	900	3910	1260	652	515
4	452	470	377	441	300	326	582	857	3680	1220	628	508
5	432	466	369	342	309	299	588	1030	3660	1220	707	518
6	414	446	407	347	353	305	489	1300	3700	1190	705	501
7	409	373	438	288	318	325	488	1730	3540	1130	680	526
8	398	398	426	359	283	364	501	2040	3480	1090	605	493
9	394	426	447	409	315	386	517	2010	3330	1030	580	487
10	390	412	451	416	329	402	586	2050	3220	922	800	479
11	390	401	468	404	387	466	494	2090	3300	865	1040	472
12	388	403	442	372	363	524	454	2270	3150	887	1010	494
13	403	401	431	343	359	516	450	2290	3030	899	907	476
14	396	395	422	376	319	425	502	2310	2890	846	809	486
15	400	431	371	397	371	408	513	2260	2720	810	742	487
16	408	429	376	348	315	457	492	2430	2610	774	683	571
17	429	394	340	339	367	498	525	2660	2500	767	654	612
18	403	441	295	360	371	451	599	2770	2500	762	648	668
19	426	470	333	340	332	428	674	2890	2660	958	686	1180
20	467	454	347	342	356	441	760	2860	2860	846	654	1800
21	419	436	425	365	319	466	862	2800	2820	775	626	2080
22	390	442	462	364	302	476	821	3010	2710	707	631	1780
23	433	551	440	364	324	484	743	2960	2650	761	591	1370
24	438	472	405	350	367	522	724	2840	2480	930	564	1140
25	452	434	406	333	302	459	690	2790	2210	798	550	1020
26	467	430	442	337	319	467	684	2630	2010	745	577	972
27	423	395	426	343	359	465	695	2250	1870	748	606	1120
28	451	328	423	328	333	451	888	2020	1800	737	581	969
29	465	388	402	314	---	484	1120	2100	1670	759	578	927
30	444	430	390	301	---	446	1130	2670	1550	756	573	920
31	443	---	389	293	---	456	---	2820	---	777	546	---
TOTAL	13159	12818	12468	11129	9287	13159	19049	67684	85390	28719	21030	24628
MEAN	424	427	402	359	332	424	635	2183	2846	926	678	821
MAX	471	551	468	444	387	524	1130	3010	3910	1420	1040	2080
MIN	388	328	295	288	283	299	450	857	1550	707	546	472
AC-FT	26100	25420	24730	22070	18420	26100	37780	134300	169400	56960	41710	48850

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1997, BY WATER YEAR (WY)

MEAN	448	411	366	337	337	389	591	1569	1919	769	428	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1962 - 1997	
ANNUAL TOTAL	259582		318520			
ANNUAL MEAN	709		873		664	
HIGHEST ANNUAL MEAN					1069	1985
LOWEST ANNUAL MEAN					290	1977
HIGHEST DAILY MEAN	3010	May 17	3910	Jun 3	6060	Jun 26 1983
LOWEST DAILY MEAN	215	Sep 5	283	Feb 8	85	Jun 28 1977
ANNUAL SEVEN-DAY MINIMUM	246	Aug 30	303	Jan 30	90	Jun 25 1977
INSTANTANEOUS PEAK FLOW			4140	Jun 3	6590	Jun 26 1983
INSTANTANEOUS PEAK STAGE			4.00	Jun 3	4.97	Jun 26 1983
ANNUAL RUNOFF (AC-FT)	514900		631800		481200	
10 PERCENT EXCEEDS	1850		2450		1510	
50 PERCENT EXCEEDS	442		486		415	
90 PERCENT EXCEEDS	335		340		281	

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to September 1984, October 1985 to September 1992, October 1994 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1978 to September 1983.
WATER TEMPERATURE: July 1978 to September 1983.

INSTRUMENTATION.--Water-quality monitor July 1978 to September 1983.

REMARKS.--Unpublished maximum and minimum specific conductance data for period of daily record available in district office.

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 1996 TO SEPTEMBER 1997

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)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
DEC												
30...	1315	383	553	8.4	1.0	11.8	0.79	K22	--	--	--	--
APR												
29...	0730	1090	459	8.2	8.5	9.8	1.0	390	--	--	--	--
JUN												
11...	1330	3390	283	8.1	11.5	10.8	1.2	140	130	36	9.3	1.6
JUL												
28...	1030	743	473	8.2	16.0	9.2	1.1	100	--	--	--	--
SEP												
08...	1630	506	494	8.7	18.0	9.1	0.94	35	240	64	18	5.1

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)
DEC								
30...	<0.01	0.12	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01
APR								
29...	<0.01	0.18	<0.01	0.9	0.3	0.25	<0.01	<0.01
JUN								
11...	<0.01	0.12	<0.01	0.3	<0.2	0.04	<0.01	0.01
JUL								
28...	<0.01	<0.05	<0.01	<0.2	<0.2	<0.01	<0.01	<0.01
SEP								
08...	<0.01	<0.05	<0.01	<0.2	<0.2	<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)
JUN										
11...	440	10	<1	<100	<10	14	<1	<1	<1	2
SEP										
08...	40	<5	<1	<100	<10	18	<1	<1	<1	2

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									
11...	570	<1	<10	30	<1	2	<1	240	<10
SEP									
08...	80	<1	<10	<10	1	<1	<1	570	<10

K-Based on non-ideal colony count.

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT				
03...	1034	482	555	11.5
NOV				
13...	0926	406	554	2.5
JAN				
07...	1536	293	626	0.0
FEB				
19...	1501	331	565	4.0
MAR				
19...	1448	434	690	10.0
APR				
30...	0815	1170	425	4.5
MAY				
21...	1257	2890	272	9.0
JUN				
03...	1255	4150	269	10.5
JUL				
10...	0819	957	419	13.5
AUG				
12...	1512	992	532	14.5
SEP				
12...	0825	504	527	14.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	SAMPLER[a] TYPE (CODE) (84164)
DEC						
30...	1315	383	15	16	--	3044
APR						
29...	0730	1090	222	653	98	3039
JUN						
11...	1330	3390	81	737	--	3039
JUL						
28...	1030	743	20	41	--	3044
SEP						
08...	1630	506	17	24	--	3044

a-Code 3039 is a D-77TM water-quality sampler; Code 3044 is a wading water-quality sampler.

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 20 ft 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 current year.

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	11	e10	9.1	8.6	7.5	27	83	38	15	17	14
2	9.6	10	11	9.3	8.7	7.2	26	83	38	15	16	14
3	10	10	e9.8	10	8.6	6.5	30	75	40	16	16	14
4	9.9	11	e9.4	9.9	8.5	6.3	61	71	38	16	16	14
5	9.7	11	e9.4	e7.6	8.7	6.9	52	68	36	16	16	14
6	9.2	11	10	e7.0	8.6	7.0	38	76	35	15	23	14
7	9.2	10	e10	e6.4	e8.0	5.8	37	83	32	16	18	14
8	9.4	10	10	e7.8	e7.6	6.1	43	86	30	16	17	13
9	9.4	9.7	9.7	e8.6	e8.0	6.7	46	75	27	20	16	13
10	9.8	11	11	9.0	e8.6	8.5	55	66	25	24	18	13
11	9.4	10	11	9.1	8.2	13	44	64	22	23	19	13
12	9.4	11	11	e8.6	8.3	20	42	60	22	24	19	13
13	9.3	11	11	e8.2	9.0	18	42	54	21	19	17	13
14	9.0	11	11	e9.6	e7.6	14	45	50	17	17	21	13
15	9.0	11	e10	e9.8	8.1	18	46	50	18	18	21	14
16	9.2	11	9.7	e8.2	8.2	31	48	46	17	17	19	15
17	9.3	10	e8.8	e8.8	8.2	41	54	40	16	19	18	15
18	9.6	11	e8.0	e8.6	8.5	40	61	38	17	21	18	15
19	9.9	11	e8.4	e8.0	8.4	44	66	36	17	23	22	18
20	10	15	e9.0	e8.6	8.5	50	76	31	21	20	30	34
21	9.5	15	e9.8	e9.0	9.4	57	76	27	23	20	21	55
22	9.4	13	e9.8	e8.8	10	48	78	31	22	19	20	70
23	9.8	19	9.1	e8.6	8.5	40	78	35	20	17	18	42
24	9.8	18	e8.8	e8.4	8.0	37	83	32	19	20	17	31
25	9.9	15	e9.0	e8.4	9.4	22	79	36	18	23	16	25
26	10	15	9.1	8.8	9.4	23	75	42	16	21	16	23
27	9.5	12	9.5	8.6	6.4	22	74	38	17	19	16	22
28	11	12	9.1	9.1	6.6	20	72	34	17	18	15	20
29	11	12	9.0	8.6	---	24	81	37	16	18	15	18
30	11	11	9.0	8.9	---	27	85	37	15	18	14	17
31	11	---	9.3	8.6	---	23	---	38	---	17	14	---
TOTAL	302.0	358.7	299.7	268.0	234.6	700.5	1720	1622	710	580	559	623
MEAN	9.74	12.0	9.67	8.65	8.38	22.6	57.3	52.3	23.7	18.7	18.0	20.8
MAX	11	19	11	10	10	57	85	86	40	24	30	70
MIN	9.0	9.7	8.0	6.4	6.4	5.8	26	27	15	15	14	13
AC-FT	599	711	594	532	465	1390	3410	3220	1410	1150	1110	1240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1997, BY WATER YEAR (WY)

MEAN	9.44	10.7	9.47	8.49	9.22	16.5	39.9	63.4	28.2	16.7	15.8	10.6
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1975 - 1997	
ANNUAL TOTAL	6294.0		7977.5			
ANNUAL MEAN	17.2		21.9		19.9	
HIGHEST ANNUAL MEAN					55.0	1984
LOWEST ANNUAL MEAN					5.02	1977
HIGHEST DAILY MEAN	78	Mar 23	86	May 8	410	May 15 1984
LOWEST DAILY MEAN	[a]5.2	Jul 25	5.8	Mar 7	.06	Jul 21 1992
ANNUAL SEVEN-DAY MINIMUM	6.3	Jul 20	6.5	Mar 3	.06	Jul 21 1992
INSTANTANEOUS PEAK FLOW			94	May 8	[b]520	Jul 19 1977
INSTANTANEOUS PEAK STAGE			3.33	May 8	[c]7.01	Jul 19 1977
ANNUAL RUNOFF (AC-FT)	12480		15820		14440	
10 PERCENT EXCEEDS	40		49		41	
50 PERCENT EXCEEDS	11		15		9.9	
90 PERCENT EXCEEDS	7.9		8.5		3.7	

e-Estimated.
a-Also occurred Jul 26.
b-From rating curve based on indirect measurement of peak flow.
c-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 current year.

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 1996 TO SEPTEMBER 1997

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										
28...	1015	10	1110	8.7	4.0	12.3	370	72	45	110
MAR										
05...	1045	12	1130	8.6	0.0	12.0	390	73	49	110
MAY										
15...	0945	49	929	8.4	9.0	10.8	330	69	39	83
SEP										
05...	0930	14	1080	8.2	13.0	9.3	370	73	45	100

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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										
28...	3	2.3	345	220	15	0.8	14	692	0.94	18.7
MAR										
05...	2	2.3	388	230	16	0.9	14	733	1.0	23.7
MAY										
15...	2	2.2	322	170	10	0.5	15	586	0.80	77.6
SEP										
05...	2	2.0	296	220	13	0.7	14	653	0.89	24.7

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						
28...	0.02	0.91	0.02	0.20	<0.01	<0.01
MAR						
05...	<0.01	0.70	0.03	0.30	<0.01	0.01
MAY						
15...	<0.01	0.90	0.05	0.21	0.04	0.04
SEP						
05...	0.02	0.94	<0.02	0.23	<0.01	0.02

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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											
28...	--	--	160	--	--	--	--	--	--	1400	--
MAR											
05...	--	--	160	--	--	--	--	--	--	1500	--
MAY											
15...	3	90	103	<1	5	14	22	6.6	<1	1100	<3
SEP											
05...	--	--	141	--	--	--	--	--	--	1500	--

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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...	0927	10	1120	7.5
NOV				
12...	1114	9.9	1110	4.0
JAN				
07...	1134	6.5	1240	0.0
FEB				
20...	1137	9.1	1100	2.5
MAR				
20...	1145	35	850	5.5
APR				
29...	0936	82	847	7.0
MAY				
27...	1307	39	1080	13.0
JUL				
09...	1122	17	1180	13.5
AUG				
13...	0908	16	1130	10.5
SEP				
09...	1116	13	1120	12.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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				
28...	1015	10	74	2.0
MAR				
05...	1045	12	120	3.9
MAY				
15...	0945	49	515	68
SEP				
05...	0930	14	40	1.5

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 current year.

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 1996 TO SEPTEMBER 1997

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										
28...	1145	0.02	1430	8.5	7.0	12.0	540	94	74	130
MAR										
05...	0915	2.4	1390	8.3	6.5	9.9	--	--	--	--
APR										
17...	1530	2.7	1400	8.4	14.0	9.0	530	93	71	120
JUN										
18...	0915	1.9	1420	8.2	12.5	9.6	560	98	75	120
SEP										
05...	1100	0.04	1390	8.2	13.5	10.0	530	92	71	120

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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									
28...	2	1.5	408	400	8.4	0.3	16	978	1.33
MAR									
05...	--	--	--	--	--	--	--	--	--
APR									
17...	2	1.3	372	390	9.1	0.3	15	937	1.27
JUN									
18...	2	1.2	352	390	9.1	0.2	16	933	1.27
SEP									
05...	2	1.2	321	370	10	0.2	15	880	1.20

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO-Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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									
28...	0.05	0.02	1.3	<0.015	<0.2	<0.01	<0.01	80	2900
MAR									
05...	--	--	--	--	--	--	--	--	--
APR									
17...	6.93	<0.01	1.2	0.100	<0.2	0.03	0.02	72.2	2700
JUN									
18...	4.79	<0.01	1.0	<0.010	<0.2	<0.01	<0.01	80.9	2900
SEP									
05...	0.10	<0.01	1.0	0.020	<0.2	<0.01	0.01	81.7	2800

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)
OCT					APR				
28...	1145	0.02	10	<0.00	17...	1530	2.7	175	1.3
MAR					SEP				
05...	0915	2.4	766	4.9	05...	1100	0.04	5	<0.00

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 current year.

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 1996 TO SEPTEMBER 1997

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										
28...	1315	2.4	1320	8.6	6.0	12.4	520	91	70	110
MAR										
05...	1230	3.8	1320	8.5	0.0	11.7	--	--	--	--
APR										
17...	1200	3.2	1320	8.4	13.0	8.6	500	90	66	110
JUN										
18...	0800	0.75	1550	7.9	10.5	7.8	600	100	84	130
SEP										
05...	1000	3.0	1280	--	12.0	10.1	490	88	66	110

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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									
28...	2	1.5	391	350	12	0.4	15	888	1.21
MAR									
05...	--	--	--	--	--	--	--	--	--
APR									
17...	2	1.3	374	340	12	0.4	16	856	1.16
JUN									
18...	2	4.0	449	420	15	0.4	19	1050	1.43
SEP									
05...	2	1.0	303	310	12	0.4	16	790	1.07

09306058 WILLOW CREEK NEAR RIO BLANCO CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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									
28...	5.83	<0.01	0.18	<0.015	<0.2	<0.01	<0.01	130	2800
MAR									
05...	--	--	--	--	--	--	--	--	--
APR									
17...	7.39	<0.01	0.36	0.100	<0.2	<0.01	<0.01	106	2600
JUN									
18...	2.11	<0.01	0.19	<0.010	<0.2	<0.01	<0.01	141	3500
SEP									
05...	6.33	<0.01	0.17	<0.010	<0.2	<0.01	<0.01	110	2600

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)
OCT					APR				
28...	1315	2.4	120	0.78	17...	1200	3.2	472	4.1
MAR					SEP				
05...	1230	3.8	266	2.7	05...	1000	3.0	50	0.40

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 current year.

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	26	24	23	24	23	39	124	43	18	42	31
2	19	26	25	23	24	23	40	126	43	17	43	32
3	22	26	23	25	24	23	42	119	49	18	42	31
4	20	26	e22	24	23	22	73	114	43	17	42	32
5	19	26	e22	23	24	21	76	109	39	17	48	29
6	19	27	e23	e18	24	23	57	109	36	18	51	27
7	19	26	24	e16	26	24	53	115	33	24	51	27
8	18	26	e23	e23	23	29	58	116	33	25	47	25
9	18	25	23	e23	25	35	63	108	36	24	45	24
10	19	25	24	e22	25	52	78	101	34	26	53	24
11	20	25	25	23	27	83	64	99	36	24	53	25
12	19	24	25	e19	24	111	56	101	35	26	54	25
13	19	25	25	e20	24	74	55	92	34	25	50	24
14	20	24	25	e21	23	44	63	86	30	25	49	25
15	21	26	24	e22	25	39	64	79	31	30	49	25
16	21	27	e22	e19	25	48	64	76	30	28	48	30
17	21	25	e20	e20	29	64	70	69	28	29	47	27
18	21	26	e19	e20	30	55	81	59	29	32	46	28
19	24	27	e21	e19	28	61	87	58	30	37	46	43
20	28	28	e23	e20	27	64	97	46	28	36	52	51
21	25	28	e25	e23	24	76	102	44	27	38	48	87
22	25	28	e26	e23	23	69	107	49	26	33	48	101
23	26	30	e24	e23	25	57	108	46	26	34	44	75
24	25	31	e23	e22	24	53	113	39	24	35	43	60
25	26	29	e25	e22	23	40	111	36	21	39	41	54
26	27	27	e24	e24	23	40	105	48	18	36	40	51
27	26	26	e23	e23	24	38	106	46	19	38	40	50
28	26	25	22	e22	24	37	104	39	21	41	39	48
29	27	26	22	23	---	38	119	44	20	40	34	45
30	26	25	22	22	---	40	125	41	19	40	33	44
31	27	---	23	23	---	38	---	43	---	41	32	---
TOTAL	693	791	721	673	694	1444	2380	2381	921	911	1400	1200
MEAN	22.4	26.4	23.3	21.7	24.8	46.6	79.3	76.8	30.7	29.4	45.2	40.0
MAX	28	31	26	25	30	111	125	126	49	41	54	101
MIN	18	24	19	16	23	21	39	36	18	17	32	24
AC-FT	1370	1570	1430	1330	1380	2860	4720	4720	1830	1810	2780	2380

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1997, BY WATER YEAR (WY)

MEAN	21.6	26.1	24.2	21.8	25.0	34.2	44.6	63.9	32.0	23.6	30.4	21.5
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1965 - 1997	
ANNUAL TOTAL	9531.2		14209			
ANNUAL MEAN	26.0		38.9		30.8	
HIGHEST ANNUAL MEAN					96.5	1985
LOWEST ANNUAL MEAN					8.30	1967
HIGHEST DAILY MEAN	95	Mar 23	126	May 2	534	May 5 1985
LOWEST DAILY MEAN	5.4	Jun 9	e16	Jan 7	.15	Jun 7 1981
ANNUAL SEVEN-DAY MINIMUM	6.1	Jun 7	18	Jun 30	.96	Apr 27 1966
INSTANTANEOUS PEAK FLOW			268	Mar 12	550	May 5 1985
INSTANTANEOUS PEAK STAGE			6.72	Mar 12	a7.70	May 5 1985
ANNUAL RUNOFF (AC-FT)	18910		28180		22320	
10 PERCENT EXCEEDS	53		75		60	
50 PERCENT EXCEEDS	23		27		21	
90 PERCENT EXCEEDS	9.3		21		6.7	

e-Estimated.
a-Maximum gage height, 7.81 ft, May 28, 1983.

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1979 to September 1982, November 1985 to current year.
WATER TEMPERATURE: December 1979 to September 1982, November 1985 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 1972 to September 1983.

INSTRUMENTATION.--Automatic pumping sediment sampler October 1972 to September 1983. Water-quality monitor December 1979 to July 1996; water-quality monitor with satellite telemetry July 1, 1996 to current year.

REMARKS.--Daily specific conductance records are good except for Oct. 1 to Feb. 18, which are fair. Daily water temperature data are good except for Oct. 1 to Feb. 18, which are fair. 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, 0.0°C many days during the winter period.
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, 1,870 microsiemens, June 28; minimum, 398 microsiemens, Mar. 11.
WATER TEMPERATURE: Maximum, 21.3°C, July 17; minimum, 0.0°C, many days during the winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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										
29...	1045	27	1440	8.6	5.5	11.2	500	80	73	150
MAR										
05...	1430	19	1460	8.6	4.5	10.5	510	80	74	140
MAY										
15...	1130	83	1010	8.4	12.0	9.2	380	72	48	84
SEP										
04...	1300	34	1380	8.3	16.0	7.9	470	76	66	130

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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...	3	2.5	437	370	15	0.7	16	974	1.33	71.0
MAR										
05...	3	2.3	445	380	15	0.7	15	980	1.33	50.3
MAY										
15...	2	2.0	325	200	9.2	0.5	17	638	0.87	143
SEP										
04...	3	2.1	384	330	14	0.6	16	873	1.19	80.1

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 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							
29...	0.01	0.54	0.030	0.20	<0.01	0.02	--
MAR							
05...	<0.01	0.61	0.030	0.30	0.03	0.03	--
MAY							
15...	<0.01	0.80	0.694	1.6	<0.01	0.02	--
SEP							
04...	<0.01	0.55	<0.015	0.34	0.03	0.01	3.7

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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											
29...	--	--	170	--	--	--	--	--	--	2600	--
MAR											
05...	--	--	160	--	--	--	--	--	--	2900	--
MAY											
15...	3	79	90.8	<1	<3	10	7	9.9	<1	1600	<3
SEP											
04...	--	--	157	--	--	--	--	--	--	2400	--

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	SAMPLER[a] TYPE (CODE) (84164)
OCT						
29...	1045	27	62	4.5	--	3044
MAR						
05...	1430	19	204	10	--	3044
MAY						
15...	1130	83	1650	370	56	3044
SEP						
04...	1300	34	136	12	--	3044

a-DH-81 1-liter wading sampler.

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	1670	1640	1650	1590	1580	1580	1410	1330	1380	---	---	---
2	1720	1640	1670	1590	1580	1580	1390	1320	1350	---	---	---
3	1750	1640	1690	1590	1580	1580	1540	1390	1470	1340	1310	1330
4	1710	1680	1690	1580	1570	1580	1470	1370	1430	1330	1300	1310
5	1720	1700	1710	1580	1550	1570	1420	1360	1380	1410	1240	1330
6	1710	1690	1700	1570	1550	1550	1410	1380	1390	1360	1240	1280
7	1700	1670	1680	1610	1550	1580	---	---	---	---	---	---
8	1720	1670	1690	1620	1590	1600	---	---	---	---	---	---
9	1720	1710	1720	1640	1610	1620	1430	1390	1410	---	---	---
10	1720	1700	1710	1620	1560	1590	1430	1320	1390	---	---	---
11	1710	1690	1700	1560	1510	1530	1380	1360	1370	---	---	---
12	1710	1690	1700	1510	1450	1470	1410	1350	1380	---	---	---
13	1710	1690	1700	1450	1440	1440	1410	1390	1400	---	---	---
14	1700	1690	1700	1450	1420	1440	1390	1370	1380	---	---	---
15	1700	1660	1680	1420	1360	1370	1420	1380	1400	---	---	---
16	---	---	---	1410	1360	1390	1390	1350	1370	---	---	---
17	---	---	---	1480	1410	1430	1560	1390	1490	---	---	---
18	---	---	---	1460	1420	1440	1600	1510	1560	---	---	---
19	---	---	---	1460	1440	1450	---	---	---	---	---	---
20	---	---	---	1440	1370	1410	---	---	---	---	---	---
21	---	---	---	1400	1370	1390	---	---	---	---	---	---
22	1550	1520	1530	1400	1370	1390	---	---	---	---	---	---
23	1540	1520	1530	1380	1340	1360	---	---	---	---	---	---
24	1540	1530	1530	1360	1330	1340	---	---	---	---	---	---
25	1550	1510	1530	1370	1350	1360	---	---	---	---	---	---
26	1520	1490	1500	1370	1350	1360	---	---	---	---	---	---
27	1560	1510	1540	1370	1340	1350	---	---	---	---	---	---
28	1550	1520	1540	1400	1350	1370	---	---	---	---	---	---
29	1570	1510	1530	1370	1310	1330	---	---	---	---	---	---
30	1580	1570	1580	1350	1310	1330	---	---	---	---	---	---
31	1590	1580	1580	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	1640	1310	1460	---	---	---	---	---	---

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	1420	1320	1360	1200	1120	1160	951	940	944
2	---	---	---	1430	1330	1380	1160	1110	1120	976	941	958
3	---	---	---	1410	1370	1390	1190	1150	1170	989	970	979
4	---	---	---	1400	1360	1390	1210	1020	1110	993	982	987
5	---	---	---	1470	1150	1360	1060	1040	1050	997	954	985
6	---	---	---	1430	1330	1360	1060	1030	1080	954	913	936
7	---	---	---	1390	1280	1330	1220	1130	1170	914	890	901
8	---	---	---	1340	908	1220	1220	1150	1190	893	876	884
9	---	---	---	1200	807	1040	1180	1010	1080	917	891	905
10	---	---	---	1170	503	945	1160	1010	1090	945	907	927
11	---	---	---	1090	398	758	1250	1160	1190	952	936	943
12	---	---	---	1090	402	712	1330	1220	1280	980	948	959
13	---	---	---	1010	402	804	1300	1170	1230	987	969	980
14	---	---	---	1270	954	1100	1250	1180	1210	988	972	980
15	---	---	---	1300	1180	1270	1250	1220	1230	995	974	985
16	---	---	---	1250	1010	1130	1250	1220	1230	997	978	988
17	---	---	---	1120	882	1040	1220	1150	1200	1040	990	1010
18	1460	1350	1430	1210	1020	1110	1150	1080	1120	1110	1040	1070
19	---	---	---	1200	1020	1110	1080	1040	1070	1120	1070	1090
20	1460	1420	1440	1180	983	1070	1050	987	1020	1170	1110	1130
21	1530	1390	1480	1120	848	973	1020	969	992	1200	1120	1150
22	1540	1380	1470	1080	933	1010	993	972	985	1220	1170	1190
23	1430	1300	1380	1130	1050	1090	1030	985	1010	1260	1180	1230
24	1410	1340	1370	1160	1090	1120	1010	994	1010	1360	1260	1330
25	1460	1300	1380	1290	1110	1200	1030	1000	1010	1380	1350	1370
26	1440	1270	1350	1290	1250	1270	1030	1010	1020	1380	1330	1350
27	1400	1290	1360	1300	1260	1280	1010	978	1010	1460	1380	1410
28	1390	1340	1370	1260	1240	1250	1020	969	1000	1500	1450	1470
29	---	---	---	1250	1200	1230	969	940	955	1500	1430	1450
30	---	---	---	1230	1190	1210	943	926	935	1520	1370	1450
31	---	---	---	1230	1200	1220	---	---	---	1540	1510	1520
MONTH	---	---	---	1470	398	1150	1330	926	1100	1540	876	1110
		JUNE			JULY			AUGUST			SEPTEMBER	
1	1560	1530	1540	1820	1770	1800	1420	1390	1410	1350	1330	1340
2	1560	1530	1540	1810	1780	1800	1390	1370	1380	1340	1320	1330
3	1550	1500	1520	1800	1710	1770	1390	1380	1390	1340	1280	1330
4	1590	1540	1570	1790	1770	1780	1390	1360	1380	1360	1340	1350
5	1660	1580	1630	1790	1740	1760	1360	1340	1350	1400	1340	1370
6	1720	1650	1670	1740	1660	1710	1400	1310	1360	1420	1390	1410
7	1730	1700	1720	1720	1590	1640	1370	1310	1340	1440	1410	1430
8	1750	1680	1720	1670	1600	1630	1410	1360	1380	1480	1440	1460
9	1690	1610	1640	1680	1620	1650	1410	1390	1400	1510	1470	1490
10	1640	1550	1600	1660	1560	1610	1390	1360	1370	1480	1450	1470
11	1660	1570	1610	1680	1650	1660	1390	1340	1370	1470	1440	1460
12	1690	1660	1670	1660	1630	1640	1420	1320	1380	1450	1430	1440
13	1740	1690	1710	1680	1650	1660	1430	1400	1420	1450	1420	1440
14	1770	1740	1760	1680	1630	1670	1410	1380	1400	1430	1410	1420
15	1770	1710	1740	1640	1580	1610	1390	1380	1380	1420	1380	1410
16	1770	1720	1730	1660	1630	1640	1380	1370	1380	1390	1350	1370
17	1770	1690	1730	1680	1580	1630	1370	1370	1370	1420	1370	1400
18	1690	1600	1640	1600	1560	1580	1370	1360	1370	1440	1350	1410
19	1630	1600	1620	1570	1530	1540	1360	1320	1350	1370	1180	1320
20	1760	1620	1640	1550	1530	1540	1320	1200	1280	1360	1240	1320
21	1790	1690	1720	1530	1490	1510	1310	1240	1280	1240	1050	1140
22	1700	1650	1670	1560	1520	1540	1320	1260	1300	1120	1020	1040
23	1690	1640	1660	1520	1510	1520	1330	1320	1330	1280	1070	1190
24	1720	1690	1700	1540	1490	1520	1340	1320	1330	1310	1280	1300
25	1750	1710	1730	1490	1440	1460	1340	1310	1330	1330	1310	1320
26	1790	1750	1770	1460	1440	1450	1350	1310	1330	1340	1330	1330
27	1860	1780	1810	1440	1430	1440	1340	1320	1330	1360	1340	1350
28	1870	1810	1850	1440	1410	1420	1340	1320	1330	1360	1350	1350
29	1810	1780	1790	1420	1410	1410	1360	1340	1340	1360	1350	1350
30	1830	1800	1810	1420	1410	1410	1340	1330	1340	1360	1340	1350
31	---	---	---	1430	1400	1410	1350	1330	1340	---	---	---
MONTH	1870	1500	1680	1820	1400	1590	1430	1200	1360	1510	1020	1360

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	14.2	7.7	11.2	8.0	4.5	5.9	1.1	.0	.3	4.1	1.7	3.1
2	13.9	8.2	11.3	7.3	2.3	5.0	2.2	.0	.7	6.1	2.4	4.2
3	12.5	10.7	11.7	5.9	3.3	4.9	.0	.0	.0	5.1	2.8	4.2
4	15.0	7.6	11.3	8.4	4.7	6.6	.0	.0	.0	3.0	.2	1.7
5	15.4	8.2	12.0	6.6	3.8	5.2	.0	.0	.0	.2	.0	.0
6	15.4	8.5	12.2	5.4	1.3	3.4	2.6	.0	.8	.0	.0	.0
7	14.8	7.9	11.6	4.8	.4	2.6	.5	.0	.1	.0	.0	.0
8	14.6	7.4	11.2	6.0	.7	3.5	3.4	.0	1.1	.0	.0	.0
9	14.7	8.5	11.5	6.3	1.7	4.2	4.0	.2	2.4	.0	.0	.0
10	14.6	7.5	11.3	6.6	1.9	4.4	6.6	3.7	4.9	1.8	.0	.4
11	14.4	7.7	11.2	6.4	1.6	4.2	4.8	3.2	4.0	2.6	.0	1.1
12	14.5	7.3	11.1	6.7	2.0	4.8	5.6	1.3	3.3	.0	.0	.0
13	13.8	7.1	10.8	6.3	3.1	4.9	5.2	2.1	3.7	.0	.0	.0
14	14.7	9.2	11.6	5.5	3.2	4.4	3.9	.8	2.8	.0	.0	.0
15	12.5	6.0	9.4	3.9	2.0	2.7	---	---	---	.0	.0	.0
16	9.8	5.8	7.0	4.0	1.7	2.8	---	---	---	.0	.0	.0
17	9.0	3.0	6.0	2.1	.0	.8	---	---	---	.0	.0	.0
18	9.3	2.3	6.1	6.0	1.8	3.9	---	---	---	.0	.0	.0
19	8.8	4.8	6.9	8.3	3.5	5.8	---	---	---	.0	.0	.0
20	8.4	3.5	5.3	8.9	4.7	6.6	---	---	---	.0	.0	.0
21	---	---	---	7.5	3.8	5.8	---	---	---	.0	.0	.0
22	---	---	---	8.9	6.5	7.5	---	---	---	.0	.0	.0
23	8.3	3.5	5.9	7.5	4.9	6.4	---	---	---	1.5	.0	.1
24	6.8	2.9	4.6	5.6	2.1	4.0	---	---	---	.0	.0	.0
25	5.7	3.7	4.9	6.3	3.3	4.8	---	---	---	.0	.0	.0
26	5.5	2.4	3.9	5.8	3.2	4.5	---	---	---	.0	.0	.0
27	6.3	1.3	3.9	3.8	.0	1.9	---	---	---	.4	.0	.0
28	4.8	2.7	3.7	3.6	.0	1.5	3.9	.9	2.2	2.3	.0	.9
29	6.9	3.2	4.9	1.7	.6	1.1	3.5	.8	2.2	5.6	1.8	3.3
30	7.5	4.0	5.6	3.6	.0	1.1	4.0	1.8	2.8	3.2	.0	1.5
31	6.5	3.6	5.0	---	---	---	5.0	2.0	3.4	4.9	.1	2.4
MONTH	---	---	---	8.9	.0	4.2	---	---	---	6.1	.0	.7
		FEBRUARY			MARCH			APRIL			MAY	
1	6.3	1.9	3.9	3.7	.0	1.1	8.6	3.0	5.2	10.4	6.4	8.2
2	3.8	1.3	2.7	4.3	.0	1.7	4.9	1.3	3.2	9.5	5.5	7.4
3	3.9	1.2	2.4	5.3	.0	2.6	9.8	3.8	6.3	10.9	4.9	7.9
4	4.7	.0	2.1	5.0	.3	2.7	8.3	5.4	6.5	12.9	7.1	10.1
5	3.1	.7	1.9	4.7	.0	1.4	5.4	2.4	3.9	14.2	8.7	11.6
6	1.5	.0	.5	6.4	.0	2.3	7.8	.6	4.0	14.2	10.1	12.2
7	3.3	.0	.8	8.2	.0	3.7	8.4	2.0	5.0	15.9	10.5	12.9
8	1.2	.0	.2	8.5	1.3	4.4	7.8	4.3	6.2	13.9	9.0	11.7
9	.4	.0	.0	8.7	1.0	4.4	7.7	4.4	6.4	14.5	8.0	11.3
10	.7	.0	.1	9.4	1.0	4.1	6.3	.9	2.8	14.1	8.5	11.4
11	4.8	.0	1.9	9.5	.7	3.6	4.9	.0	2.2	15.3	8.3	11.7
12	2.7	.0	1.1	9.4	1.1	4.2	5.7	.0	2.6	15.5	9.2	12.5
13	3.2	.0	.9	7.8	1.2	4.3	8.6	.1	4.4	15.2	8.7	12.2
14	2.6	.0	.9	6.4	1.1	4.1	10.2	3.4	6.9	15.4	8.7	12.3
15	6.9	.6	3.4	9.3	2.8	5.9	12.0	6.3	9.1	16.5	9.4	13.1
16	6.0	.3	3.4	9.2	4.9	7.3	13.1	5.8	9.5	17.3	9.9	13.7
17	8.0	2.0	4.7	7.8	3.4	5.7	13.6	6.9	10.3	16.6	10.0	13.5
18	7.0	3.1	4.8	9.1	2.1	5.6	11.4	7.3	9.4	18.4	10.0	14.0
19	6.3	.0	3.1	9.6	3.3	6.7	11.7	6.8	9.4	18.1	9.5	13.9
20	3.9	.6	2.4	9.8	3.8	6.9	11.2	8.0	9.8	15.7	10.1	13.2
21	3.3	.0	.8	9.0	5.0	7.3	10.3	7.7	8.8	14.5	10.9	12.3
22	2.6	.0	.8	9.8	4.7	7.4	10.7	7.0	8.8	15.3	10.3	12.5
23	2.7	.0	.8	11.4	5.9	8.6	9.3	6.2	7.3	14.2	9.0	11.9
24	4.1	.0	1.2	9.5	3.1	5.9	8.3	6.4	7.2	13.0	9.9	10.9
25	4.3	.0	1.1	8.3	.0	3.9	11.4	4.4	7.6	12.4	7.1	9.6
26	4.4	.0	1.6	11.4	3.0	7.1	11.1	7.0	9.0	11.9	7.2	9.5
27	3.5	.8	2.1	10.2	4.8	7.5	12.6	6.0	9.1	16.1	8.2	11.8
28	1.9	.0	1.1	8.9	2.3	6.0	12.3	9.5	11.0	15.1	8.9	12.2
29	---	---	---	11.6	4.8	8.0	12.7	8.8	10.5	16.0	10.6	13.1
30	---	---	---	11.5	3.5	7.6	9.3	5.4	7.4	18.7	10.3	14.4
31	---	---	---	10.9	4.6	7.8	---	---	---	20.3	10.6	15.2
MONTH	8.0	.0	1.8	11.6	.0	5.2	13.6	.0	7.0	20.3	4.9	11.9

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	20.1	11.8	15.9	19.8	9.7	14.5	18.7	12.7	15.9	17.9	13.0	15.7
2	17.6	11.5	14.4	19.5	8.5	14.0	19.7	12.1	15.8	20.8	13.6	16.9
3	20.0	10.2	14.7	20.5	9.4	14.7	19.2	12.4	15.8	18.9	13.9	16.8
4	20.1	11.3	15.7	21.0	9.3	15.0	16.8	14.1	15.3	17.0	13.7	15.4
5	19.6	10.2	15.0	19.9	9.7	14.8	18.5	13.4	15.6	18.5	11.7	15.0
6	20.9	10.4	15.3	18.3	10.1	14.6	17.5	14.0	15.7	16.6	12.4	14.1
7	15.9	11.6	14.0	18.6	10.3	14.4	19.9	11.7	15.6	18.1	11.1	14.6
8	15.7	11.7	13.3	19.8	10.8	15.1	20.2	12.1	16.0	19.0	10.9	14.9
9	18.4	10.7	14.0	17.0	10.2	13.6	17.1	12.7	15.0	17.9	11.8	14.9
10	18.0	11.1	14.0	20.3	10.2	15.1	17.5	13.1	15.2	17.0	11.6	14.5
11	17.6	10.4	14.1	17.3	11.9	14.4	15.7	12.5	13.8	17.7	11.5	14.6
12	20.0	10.6	14.7	18.5	10.6	14.2	14.9	10.9	13.1	17.9	12.1	15.1
13	16.7	10.7	13.8	20.3	10.0	14.9	16.3	11.2	13.7	14.8	10.8	13.1
14	15.7	10.3	12.9	21.1	9.7	15.2	17.2	10.6	14.0	17.9	10.4	14.1
15	17.1	9.1	13.3	20.3	10.8	15.7	19.4	11.4	15.3	15.7	12.0	13.9
16	18.1	10.2	14.1	18.3	11.4	14.9	17.9	12.7	15.5	16.1	11.7	13.7
17	19.9	10.8	15.2	21.3	11.7	16.1	18.6	13.1	15.7	16.6	9.9	13.4
18	18.9	11.1	14.6	18.8	13.0	16.0	18.5	12.7	15.6	15.1	12.8	13.9
19	19.9	11.8	15.9	17.9	12.9	15.1	18.2	12.1	15.2	13.7	11.8	12.5
20	19.4	12.1	15.5	19.5	11.5	15.2	17.9	12.0	15.0	15.2	11.5	13.2
21	21.1	11.8	16.2	20.9	11.3	15.9	19.0	12.8	15.7	13.9	11.5	12.4
22	20.7	10.8	15.8	18.7	12.0	15.6	20.1	12.7	16.3	12.8	10.1	11.3
23	20.8	10.7	15.7	19.1	13.5	16.2	17.8	13.1	15.8	13.2	10.2	11.4
24	20.8	10.5	15.4	19.9	12.7	16.3	20.3	12.8	16.3	14.6	8.4	11.4
25	20.6	9.9	15.1	19.6	11.4	15.7	21.0	13.4	17.2	14.7	9.0	12.0
26	19.3	9.8	14.7	18.4	11.7	15.4	18.0	15.1	16.5	13.7	11.5	12.2
27	20.5	10.6	15.3	19.3	13.3	15.9	17.0	12.8	15.2	15.5	10.1	12.5
28	20.6	11.4	15.8	16.8	13.3	15.0	18.3	12.4	15.3	14.3	8.5	11.6
29	20.4	9.9	15.0	19.3	13.4	15.9	18.9	12.7	15.8	14.4	7.6	11.0
30	19.8	9.3	14.5	16.6	13.7	15.2	16.9	12.1	14.7	14.9	8.2	11.6
31	---	---	---	20.3	13.4	16.3	17.2	12.3	14.7	---	---	---
MONTH	21.1	9.1	14.8	21.3	8.5	15.2	21.0	10.6	15.4	20.8	7.6	13.6

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 good except for estimated daily discharges, which are poor. Diversions for irrigation of about 5,500 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	39	33	e29	e25	33	65	161	36	28	48	39
2	29	37	35	e30	e26	34	57	158	37	29	50	38
3	31	37	35	e30	e25	34	57	151	38	28	48	37
4	30	37	35	e28	e26	33	69	144	38	28	48	37
5	28	38	35	e26	e32	32	84	139	35	29	52	38
6	28	37	36	e24	e30	34	73	130	34	29	54	34
7	27	36	35	e22	e28	37	70	140	32	30	56	33
8	26	36	35	e25	e27	46	68	140	31	31	52	32
9	25	35	35	e28	e29	55	76	124	30	32	51	32
10	28	35	36	e28	e34	66	85	115	29	34	56	e32
11	22	35	35	e27	e33	107	77	108	35	34	64	e31
12	22	34	35	e25	e31	153	70	98	34	34	62	e30
13	21	34	35	e25	e33	154	69	90	33	36	59	29
14	21	34	35	e28	e35	68	72	76	33	33	53	28
15	21	36	32	e26	e32	56	72	70	30	34	52	26
16	24	35	e32	e25	e32	60	71	71	29	36	52	26
17	24	35	e28	e26	e36	67	73	71	30	39	50	26
18	24	35	e28	e26	e37	65	86	69	30	41	48	29
19	28	38	e28	e25	e36	67	100	62	32	46	46	55
20	37	37	e30	e26	e34	69	116	e54	33	48	47	64
21	38	36	e33	e28	e34	73	136	e52	31	50	50	116
22	37	38	e32	e29	e36	75	143	e48	32	49	48	149
23	37	39	e31	e28	40	68	135	e45	30	48	46	119
24	37	38	e30	e27	36	65	142	e44	32	48	44	72
25	38	37	e29	e27	33	67	143	e42	31	49	45	67
26	39	35	e33	e28	34	67	131	e39	28	48	44	63
27	37	34	e30	e29	36	67	132	e38	29	49	44	64
28	38	34	e30	e28	34	66	132	e37	28	51	42	62
29	39	34	e29	e27	---	66	143	37	27	52	42	60
30	38	35	e28	e25	---	66	154	37	27	52	40	57
31	38	---	e28	e25	---	66	---	36	---	51	40	---
TOTAL	940	1080	1001	830	904	2016	2901	2626	954	1226	1533	1525
MEAN	30.3	36.0	32.3	26.8	32.3	65.0	96.7	84.7	31.8	39.5	49.5	50.8
MAX	39	39	36	30	40	154	154	161	38	52	64	149
MIN	21	34	28	22	25	32	57	36	27	28	40	26
AC-FT	1860	2140	1990	1650	1790	4000	5750	5210	1890	2430	3040	3020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1997, BY WATER YEAR (WY)

MEAN	28.0	33.6	29.4	26.5	30.7	46.6	57.7	76.2	38.9	28.5	33.9	25.2
MAX	86.1	76.9	72.0	64.9	86.6	123	245	343	247	125	109	75.4
(WY)	1986	1986	1986	1986	1986	1986	1986	1985	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1965 - 1997	
ANNUAL TOTAL	11509.3		17536			
ANNUAL MEAN	31.4		48.0		38.0	
HIGHEST ANNUAL MEAN					110	1985
LOWEST ANNUAL MEAN					12.5	1990
HIGHEST DAILY MEAN	[a]95	Mar 23	161	May 1	525	May 28 1983
LOWEST DAILY MEAN	2.4	Jun 7	[b]21	Oct 13	[c].50	Jul 21 1966
ANNUAL SEVEN-DAY MINIMUM	2.6	Jun 7	22	Oct 11	.84	Jul 30 1971
INSTANTANEOUS PEAK FLOW			289	Mar 13	[d]628	Sep 7 1978
INSTANTANEOUS PEAK STAGE			5.04	Mar 13	7.04	Sep 7 1978
ANNUAL RUNOFF (AC-FT)	22830		34780		27520	
10 PERCENT EXCEEDS	66		76		77	
50 PERCENT EXCEEDS	28		36		26	
90 PERCENT EXCEEDS	6.6		27		4.0	

e-Estimated.
a-Also occurred Apr 29.
b-Also occurred Oct 14-15.
c-Also occurred Jul 22, 1966.
d-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.

REVISED RECORDS.--Periodic water-quality data for this station, originally published in USGS WDR CO-96-2, was in error. Correct data for water-year October 1995 to September 1996 are published below, in this volume.

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, 32.0ºC, July 14, 1978; minimum, 0.0ºC, 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 1995 TO SEPTEMBER 1996

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										
07...	1440	24	2080	8.6	7.0	11.4	480	66	76	300
MAR										
12...	1410	58	1620	8.6	9.0	9.9	440	68	65	210
MAY										
15...	1155	38	1660	8.4	16.0	9.1	420	63	62	230
AUG										
27...	1015	21	2190	8.7	17.0	9.8	500	52	90	340

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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)
NOV										
07...	6	3.0	614	380	38	0.9	13	1250	1.70	79.2
MAR										
12...	4	3.2	531	320	26	0.8	15	1030	1.40	161
MAY										
15...	5	2.6	542	330	32	0.9	13	1060	1.45	109
AUG										
27...	7	3.6	717	470	38	1.0	8.0	1440	1.95	81.4

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,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)
MAY							
15...	<0.01	0.46	0.03	0.3	0.05	0.03	5.0
AUG							
27...	<0.01	<0.05	<0.015	0.4	<0.01	<0.01	6.8

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

WATER-QUALITY DATA, OCTOBER 1995 TO SEPTEMBER 1996

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)
NOV											
07...	--	--	270	--	--	--	--	--	--	2500	--
MAY											
15...	2	86	230	<1	4	22	5	7	<1	2000	<3
AUG											
27...	3	92	330	<1	<9	34	<3	8	1	2500	<9

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT					JUN				
10...	1534	28	1910	12.5	07...	1342	2.2	3400	25.5
JAN					JUL				
24...	1225	15	1380	0.0	10...	1549	8.3	2850	28.5
APR					AUG				
17...	1335	77	1380	9.0	29...	1355	13	2310	20.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEARS OCTOBER 1995 TO SEPTEMBER 1996

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				
07...	1440	24	442	28	15...	1155	38	412	42
MAR					AUG				
12...	1410	58	871	136	27...	1015	21	15	0.82

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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										
29...	1245	41	1900	8.8	6.0	13.8	490	68	77	260
MAR										
04...	1400	33	1790	8.7	5.0	10.9	480	72	72	240
MAY										
15...	1315	67	1350	8.5	16.5	7.4	400	67	56	170
SEP										
04...	1230	36	1630	8.5	16.5	9.5	400	57	62	200

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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									
29...	5	2.7	596	410	32	0.9	15	1230	1.67
MAR									
04...	5	2.6	637	380	31	0.9	15	1200	1.63
MAY									
15...	4	2.5	441	260	20	0.7	17	862	1.17
SEP									
04...	4	2.3	515	320	27	0.8	15	1000	1.36

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

WATER-QUALITY DATA, OCTOBER 1996 TO SEPTEMBER 1997

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 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)
OCT									
29...	136	--	--	--	--	--	--	--	--
MAR									
04...	107	--	--	--	--	--	--	--	--
MAY									
15...	156	<0.01	0.94	0.03	0.22	0.2	0.03	0.04	--
SEP									
04...	103	--	--	--	--	--	--	--	4.7

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											
29...	--	--	240	--	--	--	--	--	--	2600	--
MAR											
04...	--	--	210	--	--	--	5	--	--	2600	--
MAY											
15...	3	95	153	<1	<3	16	5	12	1	1800	<3
SEP											
04...	--	--	203	--	--	--	<3	--	--	2100	--

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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...	1455	27	2220	14.0
NOV				
12...	1545	34	1870	7.0
JAN				
07...	1445	22	2100	0.0
FEB				
19...	1410	38	1680	5.0
MAR				
12...	1030	104	707	2.5
APR				
29...	1440	147	1110	13.5
MAY				
27...	1620	40	1940	17.0
JUL				
09...	1440	33	2120	18.5
AUG				
12...	1105	60	1720	14.5
SEP				
10...	1155	32	1750	16.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEARS OCTOBER 1996 TO SEPTEMBER 1997

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)	SAMPLER TYPE (CODE) (84164)
OCT						
29...	1245	41	128	14	--	3044
MAR						
04...	1400	33	340	30	--	3044
MAY						
15...	1315	67	1490	270	75	3044
SEP						
04...	1230	38	93	9.6	--	3044

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 Creek, and 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 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.88	.66	.46	.46	.43	.47	.87	7.6	4.2	e2.1	1.3	1.3
2	.89	.58	.47	.49	.43	.50	.76	7.9	4.4	e2.1	1.3	1.3
3	1.0	.66	.47	.51	.44	.51	.89	8.2	4.2	e2.1	1.2	1.2
4	.93	.66	.48	.44	.44	.48	.89	8.1	4.0	e2.0	1.3	1.2
5	.88	.68	.51	.43	.45	.46	.85	7.9	3.9	e2.0	1.3	1.2
6	.87	.53	.54	.43	.46	.48	.85	8.1	3.8	e2.0	6.7	1.2
7	.84	.52	.53	.43	.43	.50	.86	8.4	3.7	e2.0	2.3	1.2
8	.86	.54	.54	.44	.43	.53	.93	8.9	3.7	e2.0	2.1	1.2
9	.86	.56	.55	.45	.41	.47	1.1	e8.8	3.7	e2.1	2.1	1.2
10	.81	.56	.56	.46	.42	.45	.87	e8.6	3.6	2.0	2.6	e1.3
11	.80	.54	.55	.45	.43	e3.5	.90	e8.6	3.5	2.0	5.0	e1.1
12	.79	.58	.54	.45	.44	6.4	.92	e8.6	3.3	1.9	4.7	e1.0
13	.80	.63	.54	.46	.44	2.3	1.1	e8.8	3.2	1.8	4.5	e.98
14	.79	.63	.49	.46	.43	1.1	1.2	e9.0	3.1	1.8	4.4	.96
15	.76	.55	.45	.45	.44	2.5	1.3	e8.8	3.1	1.8	4.4	.97
16	.76	.56	.46	.46	.45	3.3	1.8	e8.6	3.0	1.8	4.5	1.0
17	.71	.54	.45	.48	.47	1.9	2.5	e8.6	2.8	1.7	3.9	.96
18	.70	.60	.45	.48	.50	e1.4	3.1	e8.5	2.8	1.8	2.2	3.0
19	.76	.64	.45	.46	.45	e.90	3.9	e8.5	2.8	2.1	2.2	4.0
20	.62	.65	.45	.45	.44	e.80	5.1	e8.0	2.7	1.6	2.3	2.8
21	.63	.63	.46	.45	.43	.69	6.0	e7.3	2.6	1.5	2.3	5.9
22	.64	.75	.45	.45	.41	.68	6.7	7.1	2.5	1.5	2.2	2.6
23	.72	.66	.46	.45	.41	.72	7.3	6.5	2.5	1.5	2.3	2.1
24	.70	.53	.45	.45	.41	.76	5.6	6.5	2.5	1.5	2.2	e1.6
25	.71	.53	.45	.45	.43	.69	5.4	6.4	2.5	1.4	2.1	e1.7
26	.60	.51	.45	.45	.44	.71	5.4	6.1	2.5	1.4	2.2	e1.7
27	.59	.46	.45	.45	.48	.73	5.6	5.5	2.5	1.4	6.6	e1.7
28	.63	.46	.45	.45	.50	.73	5.9	5.2	e2.2	1.4	1.5	e1.6
29	.67	.45	.45	.44	---	.77	6.4	5.0	e2.1	1.3	1.4	e1.6
30	.67	.46	.45	.42	---	.75	6.8	4.7	e2.1	1.4	1.4	e1.6
31	.66	---	.45	.43	---	.81	---	4.4	---	1.4	1.4	---
TOTAL	23.53	17.31	14.91	14.03	12.34	36.99	91.79	233.2	93.5	54.4	85.9	51.17
MEAN	.76	.58	.48	.45	.44	1.19	3.06	7.52	3.12	1.75	2.77	1.71
MAX	1.0	.75	.56	.51	.50	6.4	7.3	9.0	4.4	2.1	6.7	5.9
MIN	.59	.45	.45	.42	.41	.45	.76	4.4	2.1	1.3	1.2	.96
AC-FT	47	34	30	28	24	73	182	463	185	108	170	101

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1997, BY WATER YEAR (WY)

MEAN	1.06	.85	.78	.75	.80	1.15	2.42	7.27	4.59	1.97	1.57	1.33
MAX	2.88	1.99	2.07	2.40	2.22	4.62	12.8	41.7	33.4	8.98	5.56	3.39
(WY)	1979	1984	1979	1979	1979	1979	1985	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1974 - 1997	
ANNUAL TOTAL	308.03		729.07			
ANNUAL MEAN	.84		2.00		2.10	
HIGHEST ANNUAL MEAN					7.75	1984
LOWEST ANNUAL MEAN					.27	1992
HIGHEST DAILY MEAN	2.4	Jun 21	e9.0	May 14	207	Jun 1 1983
LOWEST DAILY MEAN	a.45	Nov 29	b.41	Feb 9	c.06	Apr 10 1974
ANNUAL SEVEN-DAY MINIMUM	.45	Dec 24	.42	Feb 20	.07	Apr 10 1974
INSTANTANEOUS PEAK FLOW			131	Aug 27	d1780	Aug 18 1984
INSTANTANEOUS PEAK STAGE			3.53	Aug 27	6.12	Aug 18 1984
ANNUAL RUNOFF (AC-FT)	611		1450		1520	
10 PERCENT EXCEEDS	1.6		5.7		4.1	
50 PERCENT EXCEEDS	.63		.93		.80	
90 PERCENT EXCEEDS	.51		.45		.31	

e-Estimated.
a-Also occurred Dec 15, 17-20, 22, 24-31.
b-Also occurred Feb 22-24.
c-Also occurred Apr 11-14, 1974.
d-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 1996 TO SEPTEMBER 1997

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										
29...	0900	0.58	1410	8.1	5.5	11.1	540	95	73	110
MAY										
02...	1120	8.0	1140	8.2	7.5	9.1	510	100	62	77
SEP										
04...	1100	1.3	1300	8.0	14.0	7.4	500	90	67	100

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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...	2	1.2	415	380	13	0.4	21	945	1.28	1.48
MAY										
02...	1	1.1	342	290	9.5	0.3	22	779	1.06	16.8
SEP										
04...	2	1.5	339	360	12	0.3	20	855	1.16	3.00

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)	BORON, DIS-SOLVED (UG/L AS B) (01020)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
OCT									
29...	--	--	--	--	--	--	--	110	2300
MAY									
02...	<0.01	2.1	<0.015	0.4	<0.01	0.01	1.6	79.7	1700
SEP									
04...	<0.01	0.7	<0.015	0.4	0.03	0.02	5.5	95.7	2000

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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...	1115	0.89	1390	10.0
NOV				
12...	1255	0.62	1390	7.0
JAN				
07...	1255	0.42	1520	7.0
FEB				
20...	1000	0.44	1510	7.0
MAR				
11...	1450	10	312	1.5
20...	0930	0.77	1460	7.5
APR				
29...	1300	6.3	1170	14.5
MAY				
21...	1135	7.3	1160	13.0
JUL				
09...	1300	2.1	1290	16.5
AUG				
11...	1440	4.6	773	15.0
SEP				
10...	1405	1.3	1320	15.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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				
29...	0900	0.58	3	<0.00
MAY				
02...	1120	8.0	2040	44
SEP				
04...	1100	1.3	22	0.08

09306255 YELLOW CREEK NEAR WHITE RIVER, CO

LOCATION.--Lat 40°10'07", long 108°24'02", in NE1/4SW1/4 sec.4, T.2 N., R.98 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 160 ft downstream from bridge on State Highway 64, 0.3 mi upstream from mouth, and 10.0 mi northwest of White River City.

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.--Records fair except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 300 acres.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.4	e2.9	e2.8	e2.5	e2.1	2.6	4.1	2.9	2.6	3.0	3.7
2	1.9	2.4	e2.8	e3.0	e2.7	2.2	2.9	3.6	3.4	2.6	3.0	3.7
3	2.2	2.4	e2.7	e2.7	e2.5	2.3	2.9	3.5	3.5	2.6	3.0	3.9
4	2.1	2.4	e2.8	e2.4	e2.8	2.1	3.1	3.5	3.0	2.6	3.5	4.3
5	2.0	2.7	e2.8	e2.3	e3.1	2.0	3.2	3.3	2.9	2.6	4.2	4.6
6	1.9	2.5	e2.9	e1.8	e3.0	2.3	3.0	3.3	2.8	2.7	3.7	4.6
7	1.9	2.5	e3.2	e1.9	e2.7	3.6	2.9	3.3	2.9	2.6	3.4	4.8
8	1.9	2.3	e3.1	e2.2	e3.1	12	2.8	3.3	3.1	2.6	3.3	4.6
9	2.1	2.4	e3.2	e2.4	e3.3	51	4.4	3.3	3.2	2.6	3.8	4.7
10	2.0	2.5	e3.3	e2.6	e3.5	80	3.7	3.3	3.2	2.6	4.7	5.1
11	2.0	2.3	e3.1	e2.5	e3.3	104	3.5	3.3	3.2	2.6	5.8	4.7
12	1.9	2.3	e3.0	e2.4	e3.2	136	3.7	3.4	3.0	2.7	4.4	4.9
13	2.0	2.4	e2.9	e2.6	e3.1	63	3.5	3.5	3.0	2.7	3.9	74
14	2.1	2.5	e2.8	e2.8	e3.5	8.3	3.3	3.5	3.1	2.6	3.9	3.0
15	2.1	3.3	e2.9	e2.5	e3.4	16	3.2	3.6	3.1	2.7	3.8	3.2
16	2.2	3.1	e2.6	e2.4	e3.6	15	3.1	3.5	3.1	2.6	4.0	3.7
17	2.2	2.9	e2.5	e2.5	e3.7	12	3.1	3.4	3.1	2.7	4.0	3.9
18	2.1	3.3	e2.5	e2.5	e3.6	8.1	3.1	3.5	3.0	2.8	4.1	8.2
19	2.2	3.7	e2.6	e2.4	e3.8	4.3	3.1	3.5	3.2	3.4	4.2	8.3
20	2.6	3.4	e2.8	e2.6	e3.5	3.3	3.1	3.6	2.9	3.1	4.0	7.0
21	2.5	3.2	e3.1	e2.6	3.3	3.1	3.2	3.8	2.9	3.0	3.8	12
22	2.4	4.5	e3.0	e2.6	3.1	3.0	3.1	3.6	2.7	2.9	3.9	15
23	2.4	3.5	e2.9	e2.6	2.8	2.9	3.2	3.8	2.7	3.0	3.9	5.7
24	2.3	3.1	e3.0	e2.4	2.3	3.4	3.8	3.9	2.7	3.2	4.1	4.9
25	2.6	3.1	e3.1	e2.5	2.3	3.5	3.2	3.9	2.7	3.1	4.1	5.4
26	2.8	3.1	e3.1	e2.5	2.4	2.9	3.1	3.9	2.7	2.9	4.3	5.8
27	2.5	3.1	e3.0	e2.4	2.2	2.7	3.2	3.6	2.7	2.9	4.4	5.8
28	2.5	e2.7	e2.8	e2.3	2.4	2.7	3.5	3.5	2.6	3.0	7.5	5.7
29	2.7	e3.2	e2.8	e2.3	---	2.7	4.1	3.4	2.6	3.1	3.3	5.7
30	2.6	e2.8	e2.7	e2.2	---	2.6	3.5	3.1	2.6	3.1	3.0	5.6
31	2.5	---	e2.7	e2.3	---	2.6	---	3.0	---	3.1	3.3	---
TOTAL	69.1	86.0	89.6	76.0	84.7	561.7	98.1	108.8	88.5	87.3	123.3	236.5
MEAN	2.23	2.87	2.89	2.45	3.02	18.1	3.27	3.51	2.95	2.82	3.98	7.88
MAX	2.8	4.5	3.3	3.0	3.8	136	4.4	4.1	3.5	3.4	7.5	74
MIN	1.9	2.3	2.5	1.8	2.2	2.0	2.6	3.0	2.6	2.6	3.0	3.0
AC-FT	137	171	178	151	168	1110	195	216	176	173	245	469

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1997, BY WATER YEAR (WY)

MEAN	2.00	2.31	2.05	1.92	3.91	4.37	2.67	4.07	3.07	2.77	2.02	3.00
MAX	5.30	5.94	4.76	4.63	12.7	18.1	5.24	24.1	19.9	18.5	6.16	17.1
(WY)	1989	1989	1989	1990	1980	1997	1989	1985	1985	1985	1988	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1973 - 1997	
ANNUAL TOTAL	785.3		1709.6			
ANNUAL MEAN	2.15		4.68		2.51	
HIGHEST ANNUAL MEAN					4.80	1989
LOWEST ANNUAL MEAN					1.28	1977
HIGHEST DAILY MEAN	5.0	Apr 13	136	Mar 12	500	Sep 7 1978
LOWEST DAILY MEAN	[a]1.1	Aug 29	[e]1.8	Jan 6	[b].00	Sep 11 1978
ANNUAL SEVEN-DAY MINIMUM	1.1	Aug 29	2.0	Oct 6	.00	Dec 15 1978
INSTANTANEOUS PEAK FLOW			[c]1450	Sep 13	[d]6800	Sep 7 1978
INSTANTANEOUS PEAK STAGE			[f]11.44	Sep 13	12.97	Sep 7 1978
ANNUAL RUNOFF (AC-FT)	1560		3390		1820	
10 PERCENT EXCEEDS	3.1		4.5		4.4	
50 PERCENT EXCEEDS	2.1		3.0		2.0	
90 PERCENT EXCEEDS	1.3		2.3		.85	

e-Estimated.
a-Also occurred Aug 30 to Sep 4.
b-Also occurred Sep 12-16, 1978, and Dec 15, 1978 to Jan 14, 1979.
c-On basis of flow-through-culvert measurement of peak flow.
d-On basis of contracted-opening, and flow-over-road measurement of peak flow.
f-From floodmark.

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 1996 TO SEPTEMBER 1997

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										
29...	1430	2.8	3160	8.8	6.0	12.4	620	50	120	550
MAR										
04...	1215	1.8	3300	8.6	3.5	11.0	770	57	150	560
12...	1750	128	495	8.3	4.0	12.0	93	16	13	73
SEP										
04...	1030	4.4	2940	8.5	14.5	10.0	590	53	110	510

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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...	10	3.6	1000	680	90	1.5	13	2110	2.87	16.0
MAR										
04...	9	3.2	1110	820	85	1.5	15	2370	3.23	11.5
12...	3	4.6	237	85	9.5	0.3	6.2	349	0.48	121
SEP										
04...	9	2.6	905	620	77	1.5	14	1940	2.63	23.0

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)
MAR							
04...	0.02	2.60	0.20	0.7	0.06	0.09	--
12...	0.02	0.41	0.25	1.1	0.16	0.15	3.3

09306255 YELLOW CREEK NEAR WHITE RIVER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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											
29...	--	--	490	--	--	--	--	--	--	3500	--
MAR											
04...	--	--	500	--	--	--	--	--	--	4700	--
12...	2	35	97	<1	30	10	11	11	1	500	<3
SEP											
04...	--	--	515	--	--	--	--	--	--	3600	--

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT				
03...	0935	2.1	3420	12.0
22...	1245	1.9	3500	3.0
NOV				
13...	1100	2.3	3500	4.0
JAN				
08...	1000	2.0	3510	0.0
FEB				
19...	1230	3.8	2110	1.0
MAR				
10...	1305	68	464	2.5
12...	0915	101	493	3.0
19...	1345	3.5	3780	11.0
APR				
28...	1450	3.3	3810	16.0
MAY				
29...	0920	3.4	3720	13.0
JUL				
10...	1050	2.7	3240	15.0
AUG				
12...	1215	4.1	3090	15.5
SEP				
05...	1010	4.6	2990	13.5
17...	1305	4.1	2950	15.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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					
29...	1430	2.8	1900	14	100
MAR					
04...	1215	1.8	126	0.6	--
12...	1750	128	7470	2580	92
SEP					
04...	1030	4.4	120	1.4	--

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	486	557	580	e500	e390	e400	523	1230	2920	1410	802	602
2	477	545	518	e520	e380	e430	563	1230	3360	1310	691	592
3	512	533	e460	e520	e390	e430	553	1160	3890	1220	698	586
4	524	562	e470	e500	e420	e380	593	1100	3930	1190	679	574
5	497	579	e530	e440	e460	e380	713	1200	3760	1150	737	606
6	479	588	e560	e360	e440	e420	635	1510	3780	1150	762	572
7	470	510	e560	e410	e380	e460	578	1830	3730	1090	726	589
8	465	477	e570	e480	e410	e500	565	2200	3580	1040	651	575
9	455	506	e600	e530	e430	e520	638	2270	3400	989	624	554
10	453	501	e600	e520	e480	e590	796	2320	3190	921	729	594
11	448	484	e580	e500	e480	e680	662	2390	3300	819	1150	537
12	442	471	e560	e440	e470	e670	582	2550	3330	833	1190	572
13	452	468	e560	e470	e430	e660	554	2620	3150	866	999	610
14	452	467	e500	e500	e480	e600	569	2620	3050	844	862	556
15	453	501	e490	e460	e450	596	611	2590	2870	786	805	544
16	465	522	e460	e430	e430	741	590	2630	2730	765	741	573
17	486	490	e430	e450	e470	817	597	2720	2620	751	703	655
18	478	483	e420	e440	e440	709	653	2810	2530	747	696	734
19	481	568	e450	e430	e450	616	738	2940	2670	871	706	1420
20	548	540	e500	e470	e420	613	814	2960	2830	882	716	1950
21	527	521	e570	e480	e380	625	909	2860	2920	801	704	2780
22	492	525	e570	e480	e390	610	977	2960	2790	735	694	2410
23	495	711	e530	e460	e450	597	882	3080	2700	713	678	1630
24	526	667	e520	e440	e410	602	858	2870	2570	989	646	1280
25	539	598	e550	e440	e390	592	842	2830	2320	850	628	1120
26	580	579	e560	e500	e450	514	788	2780	2060	750	621	1040
27	552	567	e560	e430	e440	513	801	2400	1900	739	682	1130
28	545	507	e540	e410	e400	516	884	2070	1790	747	661	1080
29	570	502	e500	e390	---	519	1150	1930	1670	757	641	964
30	584	585	e490	e370	---	521	1300	2490	1540	772	649	903
31	563	---	e490	e370	---	498	---	2690	---	757	618	---
TOTAL	15496	16114	16278	14140	12010	17319	21918	71840	86880	28244	22889	28332
MEAN	500	537	525	456	429	559	731	2317	2896	911	738	944
MAX	584	711	600	530	480	817	1300	3080	3930	1410	1190	2780
MIN	442	467	420	360	380	380	523	1100	1540	713	618	537
AC-FT	30740	31960	32290	28050	23820	34350	43470	142500	172300	56020	45400	56200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1997, BY WATER YEAR (WY)

MEAN	537	517	447	400	396	531	786	1842	2176	974	535	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1983 - 1997	
ANNUAL TOTAL	280590		351460			
ANNUAL MEAN	767		963		803	
HIGHEST ANNUAL MEAN					1345	1984
LOWEST ANNUAL MEAN					428	1990
HIGHEST DAILY MEAN	3380	May 18	3930	Jun 4	6170	May 26 1984
LOWEST DAILY MEAN	223	Sep 5	e360	Jan 6	109	Aug 6 1994
ANNUAL SEVEN-DAY MINIMUM	261	Aug 31	386	Jan 28	147	Aug 3 1994
INSTANTANEOUS PEAK FLOW			4180	Jun 4	6440	Jun 7 1984
INSTANTANEOUS PEAK STAGE			a6.75	Jun 4	8.45	Jun 7 1984
ANNUAL RUNOFF (AC-FT)	556600		697100		581800	
10 PERCENT EXCEEDS	1870		2620		1760	
50 PERCENT EXCEEDS	522		592		518	
90 PERCENT EXCEEDS	375		440		320	

e-Estimated.
a-Maximum gage height, 8.33 ft, Mar 12, 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 1996 TO SEPTEMBER 1997

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)
DEC											
30...	1130	e490	696	8.2	0.5	12.6	0.9	K19	--	--	--
APR											
29...	1030	1090	671	8.1	11.5	10.2	1.1	240	--	--	--
JUN											
11...	1200	3240	358	8.1	12.5	10.7	1.6	K320	150	39	12
JUL											
28...	0830	743	597	8.3	18.5	9.1	1.2	95	--	--	--
SEP											
08...	1500	557	603	8.6	19.0	9.1	1.0	32	250	61	23

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								
30...	<0.01	0.21	0.070	0.2	<0.2	<0.01	<0.01	<0.01
APR								
29...	<0.01	0.39	<0.015	1.7	0.3	0.54	<0.01	0.01
JUN								
11...	<0.01	0.25	0.020	<0.2	<0.2	<0.01	<0.01	0.01
JUL								
28...	<0.01	<0.05	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
SEP								
08...	<0.01	<0.05	<0.015	<0.2	<0.2	<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)
JUN										
11...	630	<5.0	<1	<100	<10	27	<1	<1	<1	3
SEP										
08...	130	7.1	1	<100	<10	41	<1	<1	<1	2

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									
11...	860	<1	<10	36	<1	1	<1	300	<10
SEP									
08...	160	<1	<10	<10	2	<1	<1	680	<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 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT				
01...	1530	488	675	14.0
NOV				
13...	1230	463	714	4.5
MAR				
19...	1236	658	855	7.5
APR				
28...	1310	818	703	13.0
MAY				
20...	1216	2810	329	11.5
JUN				
03...	1146	3730	335	12.5
JUL				
10...	1242	952	511	17.5
AUG				
12...	1420	1140	645	16.5
SEP				
05...	1135	576	645	17.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	SAMPLER TYPE (CODE) (84164)
DEC						
30...	1130	e490	30	--	--	3044
APR						
29...	1030	1090	701	2060	92	3039
JUN						
11...	1200	3240	501	4380	--	3039
JUL						
28...	0830	743	85	171	--	3044
SEP						
08...	1500	557	61	92	--	3044

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)
DEC											
30...	1000	495	732	8.3	0.5	12.4	0.8	K24	--	--	--
APR											
29...	0900	e1070	732	8.3	10.0	10.9	1.0	K21	--	--	--
JUN											
13...	1100	3090	339	8.3	14.5	10.4	1.2	68	140	38	11
AUG											
15...	1030	877	647	8.4	18.5	9.5	0.7	53	--	--	--
SEP											
08...	1300	555	623	8.4	21.0	9.0	0.9	K3	250	61	24

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								
30...	<0.01	0.13	0.03	<0.2	<0.2	<0.01	<0.01	<0.01
APR								
29...	<0.01	0.29	<0.01	0.3	0.3	0.04	<0.01	<0.01
JUN								
13...	<0.01	0.12	<0.01	0.3	<0.2	0.04	<0.01	<0.01
AUG								
15...	0.01	0.10	0.05	0.4	0.3	0.05	<0.01	0.01
SEP								
08...	<0.01	<0.05	0.02	<0.2	<0.2	<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)
JUN										
13...	630	7	<1	<100	<10	25	<1	1	<1	2
SEP										
08...	170	<5	1	<100	<10	45	<1	<1	<1	6

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									
13...	800	1	<10	35	<1	1	<1	290	<10
SEP									
08...	230	<1	10	14	2	<1	<1	700	<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 1996 TO SEPTEMBER 1997

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				
30...	1000	495	12	17
APR				
29...	0900	1070	50	145
JUN				
13...	1100	3090	46	383
AUG				
15...	1030	877	16	38
SEP				
08...	1300	555	40	60

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 to September 1997 (seasonal records only). 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, 44 ft^3/s, Sept. 19, 1997.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known occurred Oct. 5, 1911.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	107	763	363	213	142
2	---	---	---	---	---	---	---	86	828	313	185	108
3	---	---	---	---	---	---	---	91	792	290	177	91
4	---	---	---	---	---	---	---	137	808	268	152	86
5	---	---	---	---	---	---	---	184	794	245	159	83
6	---	---	---	---	---	---	---	215	709	225	140	88
7	---	---	---	---	---	---	---	221	660	214	133	79
8	---	---	---	---	---	---	---	198	634	196	121	68
9	---	---	---	---	---	---	---	193	511	191	105	68
10	---	---	---	---	---	---	---	187	476	181	172	64
11	---	---	---	---	---	---	---	191	522	181	174	58
12	---	---	---	---	---	---	---	219	552	167	152	64
13	---	---	---	---	---	---	---	277	544	153	139	57
14	---	---	---	---	---	---	---	327	521	143	128	53
15	---	---	---	---	---	---	---	389	508	133	114	61
16	---	---	---	---	---	---	---	413	546	122	104	77
17	---	---	---	---	---	---	---	438	517	112	93	54
18	---	---	---	---	---	---	---	427	553	109	111	48
19	---	---	---	---	---	---	---	405	567	107	92	44
20	---	---	---	---	---	---	---	384	619	117	81	52
21	---	---	---	---	---	---	---	426	615	140	85	482
22	---	---	---	---	---	---	---	407	604	123	91	582
23	---	---	---	---	---	---	---	366	595	131	84	411
24	---	---	---	---	---	---	---	351	560	120	78	290
25	---	---	---	---	---	---	---	307	519	97	97	240
26	---	---	---	---	---	---	---	277	474	99	142	205
27	---	---	---	---	---	---	---	266	433	129	98	176
28	---	---	---	---	---	---	---	269	405	124	83	148
29	---	---	---	---	---	---	---	298	401	129	80	128
30	---	---	---	---	---	---	---	390	394	213	74	111
31	---	---	---	---	---	---	---	549	---	264	108	---
TOTAL	---	---	---	---	---	---	---	8995	17424	5399	3765	4218
MEAN	---	---	---	---	---	---	---	290	581	174	121	141
MAX	---	---	---	---	---	---	---	549	828	363	213	582
MIN	---	---	---	---	---	---	---	86	394	97	74	44
AC-FT	---	---	---	---	---	---	---	17840	34560	10710	7470	8370

09341300 WOLF CREEK AT WOLF CREEK CAMPGROUND, NEAR PAGOSA SPRINGS, CO

LOCATION.--Lat 37°26'31", long 106°53'11", NW1/4 SW1/4 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 to September 1997 (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.--No estimated daily discharges. Records fair. 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, 10 ft^3/s, Sept. 18-19, 1997.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known occurred Oct. 5, 1911.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	47	279	126	38	24
2	---	---	---	---	---	---	---	45	325	106	32	19
3	---	---	---	---	---	---	---	48	308	95	35	17
4	---	---	---	---	---	---	---	66	327	87	32	16
5	---	---	---	---	---	---	---	92	337	79	38	17
6	---	---	---	---	---	---	---	112	305	71	33	19
7	---	---	---	---	---	---	---	113	267	65	32	17
8	---	---	---	---	---	---	---	125	254	57	30	15
9	---	---	---	---	---	---	---	118	220	54	26	14
10	---	---	---	---	---	---	---	128	221	49	34	14
11	---	---	---	---	---	---	---	136	234	47	35	13
12	---	---	---	---	---	---	---	138	231	44	31	14
13	---	---	---	---	---	---	---	151	240	41	30	12
14	---	---	---	---	---	---	---	161	245	39	27	12
15	---	---	---	---	---	---	---	174	241	37	24	11
16	---	---	---	---	---	---	---	194	240	35	22	13
17	---	---	---	---	---	---	---	217	215	32	20	11
18	---	---	---	---	---	---	---	235	222	30	25	10
19	---	---	---	---	---	---	---	241	214	30	21	10
20	---	---	---	---	---	---	---	217	209	34	18	13
21	---	---	---	---	---	---	---	186	211	42	23	76
22	---	---	---	---	---	---	---	176	209	30	22	78
23	---	---	---	---	---	---	---	179	208	29	27	86
24	---	---	---	---	---	---	---	179	205	28	26	65
25	---	---	---	---	---	---	---	182	194	24	22	49
26	---	---	---	---	---	---	---	161	180	24	28	42
27	---	---	---	---	---	---	---	140	167	28	22	37
28	---	---	---	---	---	---	---	137	153	30	19	32
29	---	---	---	---	---	---	---	150	147	28	18	29
30	---	---	---	---	---	---	---	172	140	45	17	27
31	---	---	---	---	---	---	---	252	---	46	22	---
TOTAL	---	---	---	---	---	---	---	4672	6948	1512	829	812
MEAN	---	---	---	---	---	---	---	151	232	48.8	26.7	27.1
MAX	---	---	---	---	---	---	---	252	337	126	38	86
MIN	---	---	---	---	---	---	---	45	140	24	17	10
AC-FT	---	---	---	---	---	---	---	9270	13780	3000	1640	1610

09341500 WEST FORK SAN JUAN RIVER NEAR PAGOSA SPRINGS, CO

LOCATION.--Lat 37°23'31", long 106°54'24", NW1/4NW1/4 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). April 1997 to September 1997 (seasonal records only). Water-quality data available December 1984 to September 1987 at present site.

GAGE.--Water-stage recorder. 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.--No estimated daily discharges. Records good. 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, 82 ft^3/s, Sept. 19, 1997.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known occurred October 5, 1911.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	231	991	588	271	179
2	---	---	---	---	---	---	---	204	1270	522	228	135
3	---	---	---	---	---	---	---	204	1340	470	228	121
4	---	---	---	---	---	---	---	253	1490	428	200	115
5	---	---	---	---	---	---	---	318	1530	384	216	114
6	---	---	---	---	---	---	---	364	1310	339	190	119
7	---	---	---	---	---	---	---	380	1230	316	184	114
8	---	---	---	---	---	---	---	369	1180	284	174	102
9	---	---	---	---	---	---	---	391	904	274	151	102
10	---	---	---	---	---	---	---	376	813	258	215	100
11	---	---	---	---	---	---	---	373	893	252	210	95
12	---	---	---	---	---	---	---	402	954	235	182	97
13	---	---	---	---	---	---	---	471	957	215	171	90
14	---	---	---	---	---	---	---	541	918	199	161	88
15	---	---	---	---	---	---	---	600	908	186	144	87
16	---	---	---	---	---	---	---	660	972	172	133	112
17	---	---	---	---	---	---	---	689	863	158	125	92
18	---	---	---	---	---	---	---	666	925	153	142	85
19	---	---	---	---	---	---	---	634	953	155	128	82
20	---	---	---	---	---	---	---	599	989	164	114	85
21	---	---	---	---	---	---	---	668	1010	198	127	674
22	---	---	---	---	---	---	---	638	985	168	129	858
23	---	---	---	---	---	---	---	586	959	172	131	613
24	---	---	---	---	---	---	---	552	897	166	124	421
25	---	---	---	---	---	---	---	494	813	141	126	318
26	---	---	---	---	---	---	---	456	744	135	171	263
27	---	---	---	---	---	---	---	432	688	180	130	227
28	---	---	---	---	---	---	---	435	643	170	116	195
29	---	---	---	---	---	---	---	465	637	173	111	173
30	---	---	---	---	---	---	218	568	618	286	107	155
31	---	---	---	---	---	---	---	752	---	369	134	---
TOTAL	---	---	---	---	---	---	---	14771	29384	7910	4973	6011
MEAN	---	---	---	---	---	---	---	476	979	255	160	200
MAX	---	---	---	---	---	---	---	752	1530	588	271	858
MIN	---	---	---	---	---	---	---	204	618	135	107	82
AC-FT	---	---	---	---	---	---	---	29300	58280	15690	9860	11920

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 downstream, at different datum.

REMARKS.--Records fair except those 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	80	e70	61	72	66	637	747	3170	914	562	381
2	73	77	e70	60	74	71	524	660	3480	808	469	277
3	111	90	e64	74	77	81	487	646	3080	738	507	271
4	244	94	64	131	67	80	505	773	3090	684	472	230
5	196	86	63	98	72	64	430	972	3080	638	576	224
6	155	84	88	81	72	76	363	1170	2590	584	489	227
7	136	71	73	61	e55	85	344	1260	2390	560	449	221
8	122	66	72	e60	e56	96	338	1240	2480	514	423	182
9	110	74	81	e60	63	114	353	1330	1770	491	366	160
10	95	79	91	e62	68	137	329	1260	1520	481	467	164
11	88	89	93	e66	69	184	309	1200	1660	469	512	155
12	82	97	92	71	70	239	265	1240	1780	449	430	173
13	78	100	84	60	77	275	257	1480	1780	422	390	148
14	76	98	82	54	72	310	249	1740	1660	398	385	155
15	78	103	64	65	69	297	270	1950	1620	377	354	141
16	73	102	54	e66	74	346	319	2150	1820	357	305	223
17	73	79	53	e62	82	409	410	2220	1570	333	274	163
18	67	101	40	e68	86	425	518	2160	1660	327	293	140
19	65	101	46	73	87	486	597	2090	1720	342	291	131
20	81	128	62	74	94	634	715	1980	1740	344	237	137
21	70	140	71	75	94	794	845	2420	1800	376	243	1210
22	56	145	73	73	79	774	868	2430	1730	354	270	1510
23	65	187	72	72	86	786	867	2150	1660	361	279	1000
24	64	137	62	72	78	762	783	1880	1530	354	288	713
25	62	113	62	66	79	611	694	1640	1370	288	266	577
26	63	113	63	63	72	582	571	1440	1210	270	405	493
27	69	125	65	67	77	620	568	1260	1090	377	307	436
28	91	92	68	67	61	615	710	1210	1010	379	258	390
29	132	125	65	66	---	618	731	1260	1000	380	230	352
30	87	102	62	66	---	576	710	1580	967	573	220	322
31	87	---	65	66	---	604	---	2300	---	747	220	---
TOTAL	2925	3078	2134	2160	2082	11817	15566	47838	57027	14689	11237	10906
MEAN	94.4	103	68.8	69.7	74.4	381	519	1543	1901	474	362	364
MAX	244	187	93	131	94	794	868	2430	3480	914	576	1510
MIN	56	66	40	54	55	64	249	646	967	270	220	131
AC-FT	5800	6110	4230	4280	4130	23440	30880	94890	113100	29140	22290	21630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1997, BY WATER YEAR (WY)

MEAN	144	93.4	64.0	55.4	62.6	149	566	1292	1359	404	178	151
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1936 - 1997	
ANNUAL TOTAL	71088		181459			
ANNUAL MEAN	194		497		377	
HIGHEST ANNUAL MEAN					730	1941
LOWEST ANNUAL MEAN					115	1977
HIGHEST DAILY MEAN	1600	May 17	3480	Jun 2	4640	May 13 1941
LOWEST DAILY MEAN	30	Aug 19	40	Dec 18	[a]9.7	Oct 5 1956
ANNUAL SEVEN-DAY MINIMUM	32	Aug 14	56	Dec 15	11	Oct 4 1956
INSTANTANEOUS PEAK FLOW			4140	Jun 1	25000	Oct 5 1911
INSTANTANEOUS PEAK STAGE			6.43	Jun 1	[b]17.80	Oct 5 1911
ANNUAL RUNOFF (AC-FT)	141000		359900		273100	
10 PERCENT EXCEEDS	380		1550		1170	
50 PERCENT EXCEEDS	89		239		109	
90 PERCENT EXCEEDS	45		65		43	

e-Estimated.
a-Also occurred Oct 6, 1956.
b-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 estimated daily discharges, which are 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	22	e18	17	e18	16	e20	41	555	24	23	23
2	20	21	e17	e16	21	16	e18	41	594	22	22	22
3	20	22	e16	e15	20	20	e18	42	270	24	22	24
4	26	20	e15	14	18	19	22	44	246	26	21	25
5	23	20	e16	14	18	e15	21	44	222	24	71	25
6	22	20	18	14	18	e17	23	39	137	22	22	25
7	22	21	e18	e14	15	20	22	40	135	22	28	25
8	22	22	e19	e15	e16	24	21	42	236	26	24	25
9	22	28	21	e16	18	29	21	41	74	29	26	25
10	21	40	23	e17	e17	36	21	40	15	26	29	26
11	20	43	23	e17	e16	38	21	40	24	25	24	26
12	19	30	22	18	18	27	20	41	24	25	23	26
13	18	21	21	18	19	22	25	59	23	25	22	25
14	18	18	22	e18	17	23	27	68	23	24	24	25
15	19	18	18	e18	17	30	22	165	26	21	25	25
16	18	18	e18	e17	20	29	21	200	24	26	25	22
17	18	e16	e17	e17	23	34	23	144	21	31	25	20
18	17	18	e15	e16	22	36	23	122	21	31	25	22
19	17	e17	e16	e16	24	31	24	127	22	30	24	24
20	22	e18	e17	e15	26	33	24	66	22	30	24	24
21	15	19	e17	e15	23	35	23	179	23	30	24	e240
22	17	19	e17	e16	20	28	20	394	23	26	24	e80
23	18	19	e17	e16	21	28	20	292	23	25	24	20
24	19	19	e16	e16	20	e26	21	139	22	24	24	19
25	19	18	e16	16	20	e18	21	117	21	20	24	20
26	16	18	e16	16	18	e17	20	88	23	21	26	22
27	20	18	e15	e16	18	e19	21	49	22	21	24	24
28	24	e17	16	17	17	e20	21	43	21	21	23	23
29	24	18	16	17	---	e21	21	48	18	23	23	22
30	23	19	16	17	---	e19	31	69	21	25	22	22
31	23	---	16	18	---	e19	---	204	---	24	23	---
TOTAL	621	637	548	502	538	765	656	3068	2931	773	790	976
MEAN	20.0	21.2	17.7	16.2	19.2	24.7	21.9	99.0	97.7	24.9	25.5	32.5
MAX	26	43	23	18	26	38	31	394	594	31	71	240
MIN	15	16	15	14	15	15	18	39	15	20	21	19
AC-FT	1230	1260	1090	996	1070	1520	1300	6090	5810	1530	1570	1940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1997, BY WATER YEAR (WY)

MEAN	38.8	29.6	19.9	16.6	19.2	38.0	48.2	110	138	69.1	38.2	38.1
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1971 - 1997	
ANNUAL TOTAL	8501.7		12805			
ANNUAL MEAN	23.2		35.1		51.3	
HIGHEST ANNUAL MEAN					135	1985
LOWEST ANNUAL MEAN					19.5	1977
HIGHEST DAILY MEAN	68	Sep 14	594	Jun 2	1330	Jun 8 1985
LOWEST DAILY MEAN	9.7	Aug 18	[a]14	Jan 4	1.0	Jan 28 1981
ANNUAL SEVEN-DAY MINIMUM	12	Aug 15	15	Jan 2	6.8	Dec 31 1989
INSTANTANEOUS PEAK FLOW			1350	Jun 1	3130	Aug 24 1992
INSTANTANEOUS PEAK STAGE			[b]4.58	Jun 1	5.14	Aug 24 1992
ANNUAL RUNOFF (AC-FT)	16860		25400		37180	
10 PERCENT EXCEEDS	34		41		104	
50 PERCENT EXCEEDS	22		22		23	
90 PERCENT EXCEEDS	14		16		15	

e-Estimated.
a-Also occurred Jan 5-7. Jan 7 was estimated.
b-Maximum gage height, 4.67 ft, Sep 21, backwater from log jam in flume.

09344400 NAVAJO RIVER BELOW OSO DIVERSION DAM, NEAR CHROMO, CO

LOCATION.--Lat 37°01'49", long 106°44'14", in NE1/4 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 over 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	37	34	36	40	36	40	92	403	57	63	58
2	31	36	34	36	39	36	39	91	303	56	64	57
3	31	43	27	36	39	37	40	91	282	57	64	56
4	44	40	24	33	37	38	40	93	318	58	64	85
5	43	36	27	31	38	35	39	93	241	57	68	84
6	42	32	31	31	37	36	39	90	82	57	72	77
7	26	32	e29	32	33	39	39	90	74	86	160	71
8	31	35	30	e32	33	43	45	89	78	76	60	64
9	36	38	31	e33	36	47	44	89	66	61	56	62
10	35	40	33	42	e34	51	42	89	66	58	58	69
11	34	43	35	42	37	51	42	89	62	57	57	71
12	34	44	35	38	37	39	42	89	57	57	56	67
13	34	39	35	37	38	37	43	89	56	56	56	63
14	36	36	37	38	36	38	42	93	56	57	55	66
15	35	36	33	e34	36	39	42	100	57	58	56	62
16	34	36	33	e35	38	39	44	103	57	59	55	101
17	34	35	32	e35	40	38	40	117	57	59	56	72
18	32	36	e26	e36	40	38	39	113	66	58	56	66
19	33	38	e24	e36	41	38	38	107	68	58	55	63
20	37	37	26	e37	43	40	38	99	65	58	56	83
21	33	35	30	e38	41	40	39	124	65	56	56	463
22	27	35	31	e37	39	40	38	115	60	55	65	451
23	31	38	31	e38	41	40	38	92	60	57	66	255
24	30	35	e30	e37	39	40	38	92	60	61	55	181
25	32	36	31	e36	39	38	38	92	59	61	56	149
26	29	39	e30	37	37	37	39	92	57	63	56	128
27	33	35	35	41	39	38	38	90	56	64	56	113
28	38	34	37	e38	36	39	40	90	58	113	56	88
29	39	35	37	39	---	40	40	90	58	63	55	76
30	36	35	37	38	---	39	61	93	57	63	56	77
31	38	---	37	39	---	39	---	122	---	63	59	---
TOTAL	1057	1106	982	1128	1063	1225	1226	2998	3104	1919	1923	3378
MEAN	34.1	36.9	31.7	36.4	38.0	39.5	40.9	96.7	103	61.9	62.0	113
MAX	44	44	37	42	43	51	61	124	403	113	160	463
MIN	26	32	24	31	33	35	38	89	56	55	55	56
AC-FT	2100	2190	1950	2240	2110	2430	2430	5950	6160	3810	3810	6700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1997, BY WATER YEAR (WY)

MEAN	53.6	46.3	38.5	35.3	37.2	60.1	57.9	130	158	93.8	65.0	61.6
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1971 - 1997	
ANNUAL TOTAL	16012		21109			
ANNUAL MEAN	43.7		57.8		70.6	
HIGHEST ANNUAL MEAN					158	1985
LOWEST ANNUAL MEAN					41.5	1977
HIGHEST DAILY MEAN	93	May 16	463	Sep 21	1160	Jun 9 1985
LOWEST DAILY MEAN	a24	Aug 7	b24	Dec 4	c10	Oct 10 1980
ANNUAL SEVEN-DAY MINIMUM	26	Aug 7	28	Dec 18	13	Oct 7 1980
INSTANTANEOUS PEAK FLOW			1050	Jun 1	1330	May 24 1984
INSTANTANEOUS PEAK STAGE			4.62	Jun 1	d4.92	May 24 1984
ANNUAL RUNOFF (AC-FT)	31760		41870		51170	
10 PERCENT EXCEEDS	59		90		120	
50 PERCENT EXCEEDS	38		40		48	
90 PERCENT EXCEEDS	30		33		31	

e-Estimated.
a-Also occurred Aug 13, Dec 4, and Dec 19. Dec 19 was estimated.
b-Also occurred Dec 19 as an estimated day.
c-Also occurred Oct 11, 1981.
d-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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e140	162	e150	e140	e160	183	965	1000	3170	1090	614	561
2	e140	153	127	e140	e170	169	932	959	3820	970	451	409
3	e140	159	e130	e140	e180	196	802	879	3660	866	428	362
4	e450	196	138	e170	e180	204	898	982	3510	789	459	341
5	e350	176	135	e280	e170	186	940	1280	3600	740	572	364
6	e300	159	178	e250	e170	166	632	1500	3110	680	537	299
7	e270	153	190	e200	e160	203	625	1660	2620	633	577	275
8	e250	132	157	e140	e150	264	597	1670	3080	594	472	237
9	e220	140	156	e140	e140	384	624	1690	2470	540	367	218
10	e200	156	185	e140	e160	439	610	1700	1870	524	357	237
11	e180	172	196	e150	e170	549	570	1600	1940	494	885	244
12	e170	182	204	e150	e170	693	485	1610	2080	484	681	275
13	e160	182	193	e160	e180	818	465	1750	2120	449	586	260
14	e150	176	186	e140	e190	879	422	2000	1950	418	451	245
15	e140	172	163	e130	e180	902	427	2180	1920	386	416	243
16	e140	196	143	e150	e180	1030	434	2470	2090	360	353	309
17	e140	160	e120	e150	e210	1240	526	2520	1910	344	323	298
18	e140	153	e110	e140	e240	1280	669	2500	1850	337	316	249
19	e130	172	e100	e140	244	1380	775	2580	2000	382	352	232
20	e130	175	e95	e170	283	1660	901	2430	1950	373	297	236
21	e150	200	e130	e170	284	1990	1100	2850	2050	391	274	2230
22	e130	204	e150	e170	221	2000	1150	2930	1950	409	310	2810
23	e110	273	e150	e170	219	1840	1150	2850	1910	392	332	1750
24	e120	244	e150	e170	204	1780	1220	2400	1800	412	332	1160
25	e130	187	e140	e170	204	1250	1030	2180	1650	352	307	897
26	129	166	e140	e160	204	1050	801	1970	1460	301	478	719
27	132	182	e140	e160	193	1100	726	1720	1340	393	412	636
28	165	169	e150	e160	197	1110	844	1640	1210	462	325	544
29	230	172	e150	e160	---	1090	938	1620	1180	425	295	472
30	190	e160	e150	e160	---	915	874	1810	1140	516	276	432
31	166	---	e140	e160	---	902	---	2310	---	921	304	---
TOTAL	5592	5283	4646	5030	5413	27852	23132	59240	66410	16427	13139	17544
MEAN	180	176	150	162	193	898	771	1911	2214	530	424	585
MAX	450	273	204	280	284	2000	1220	2930	3820	1090	885	2810
MIN	110	132	95	130	140	166	422	879	1140	301	274	218
AC-FT	11090	10480	9220	9980	10740	55240	45880	117500	131700	32580	26060	34800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1997, BY WATER YEAR (WY)

MEAN	309	245	175	159	201	626	1107	1772	1885	684	333	299
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1971 - 1997	
ANNUAL TOTAL	104486		249708			
ANNUAL MEAN	285		684		[a]650	
HIGHEST ANNUAL MEAN					1191	1985
LOWEST ANNUAL MEAN					200	1977
HIGHEST DAILY MEAN	1720	May 17	3820	Jun 2	[b]6700	Mar 12 1985
LOWEST DAILY MEAN	63	Aug 20	[e]95	Dec 20	[c]28	Sep 14 1974
ANNUAL SEVEN-DAY MINIMUM	66	Aug 14	121	Dec 16	39	Sep 14 1978
INSTANTANEOUS PEAK FLOW			4650	Jun 2	[d]8590	Mar 6 1995
INSTANTANEOUS PEAK STAGE			[f]5.61	Jun 2	[g]8.10	Mar 6 1995
ANNUAL RUNOFF (AC-FT)	207200		495300		471200	
10 PERCENT EXCEEDS	479		1930		1750	
50 PERCENT EXCEEDS	185		325		287	
90 PERCENT EXCEEDS	115		140		112	

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 maximum daily discharge for period of record.
c-Minimum daily discharge for period of record, about 5 ft^3/s, Dec 10, 1961, result of freezeup.
d-Maximum discharge and stage 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.
f-Maximum gage height, 6.99 ft, Dec 24, backwater from ice.
g-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 fair 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e98	113	109	e78	e90	107	1260	1140	2450	919	836	463
2	e110	102	75	e75	e92	106	1140	1010	2710	799	602	406
3	e140	108	e75	e76	e98	120	1020	953	2400	696	586	328
4	e180	120	52	e76	e103	131	1120	1100	2420	623	522	283
5	e185	116	52	e76	e96	118	923	1420	2520	566	600	279
6	e175	109	57	e76	e99	116	718	1650	2480	501	619	264
7	e165	104	59	e76	e99	141	669	1730	2350	463	617	274
8	e160	91	73	e76	e90	168	653	1650	2540	434	560	240
9	e150	91	86	e74	e82	206	668	1550	2090	405	485	216
10	e135	99	95	e76	e90	245	653	1540	1830	386	487	211
11	e125	106	106	e78	e94	311	587	1480	1880	356	668	219
12	e115	111	116	e76	e96	404	524	1600	1850	367	521	209
13	e110	118	111	e74	e98	496	490	1780	1880	333	508	193
14	e108	118	102	e70	106	558	480	1990	1730	304	466	191
15	e108	118	93	e70	94	589	503	2120	1600	272	415	179
16	e102	118	70	e74	95	672	544	2360	1650	224	355	272
17	e100	104	e68	e80	106	795	666	2430	1500	234	331	233
18	e95	104	e68	e80	123	858	828	2330	1500	228	323	201
19	e90	120	e64	e86	145	958	988	2220	1560	243	353	185
20	e92	116	e49	e90	156	1260	1150	2250	1630	271	284	176
21	e105	126	e58	e98	156	1620	1370	2710	1650	273	252	1450
22	e84	144	e82	e99	124	1760	1510	3080	1560	244	268	3010
23	e82	190	e84	e99	134	1780	1500	2650	1500	358	292	2280
24	e82	175	e84	e99	131	1770	1360	2460	1370	333	269	1540
25	e82	148	e80	e96	126	1300	1130	2300	1210	266	252	1140
26	89	139	e74	e94	121	1100	948	2070	1060	226	410	901
27	87	139	e76	e91	121	1170	897	1810	964	305	368	759
28	118	119	e78	e89	131	1280	1080	1710	881	321	296	649
29	173	128	e81	e89	---	1360	1190	1650	1010	450	255	560
30	135	131	e78	e90	---	1210	1110	1760	972	685	256	498
31	116	---	e78	e90	---	1180	---	2000	---	1160	269	---
TOTAL	3696	3625	2433	2571	3096	23889	27679	58503	52747	13245	13325	17809
MEAN	119	121	78.5	82.9	111	771	923	1887	1758	427	430	594
MAX	185	190	116	99	156	1780	1510	3080	2710	1160	836	3010
MIN	82	91	49	70	82	106	480	953	881	224	252	176
AC-FT	7330	7190	4830	5100	6140	47380	54900	116000	104600	26270	26430	35320

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1997, BY WATER YEAR (WY)

MEAN	174	126	90.5	76.0	95.7	333	891	1318	1083	354	213	217
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1963 - 1997	
ANNUAL TOTAL	57410		222618			
ANNUAL MEAN	157		610		415	
HIGHEST ANNUAL MEAN					822	1979
LOWEST ANNUAL MEAN					94.0	1977
HIGHEST DAILY MEAN	912	May 7	3080	May 22	5360	Sep 6 1970
LOWEST DAILY MEAN	e33	Aug 19	e49	Dec 20	19	Nov 29 1989
ANNUAL SEVEN-DAY MINIMUM	35	Aug 14	63	Dec 2	26	Dec 11 1989
INSTANTANEOUS PEAK FLOW			3570	May 22	a8370	Sep 6 1970
INSTANTANEOUS PEAK STAGE			4.75	May 22	b6.38	Sep 6 1970
ANNUAL RUNOFF (AC-FT)	113900		441600		300500	
10 PERCENT EXCEEDS	292		1730		1230	
50 PERCENT EXCEEDS	105		256		151	
90 PERCENT EXCEEDS	53		80		55	

e-Estimated.
a-From rating curve extended above 4,400 ft^3/s, on basis of slope-area measurement of peak flow.
b-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 NE1/4NW1/4 sec.16, T.37 N., R.6 W., La Plata County, Hydrologic Unit 14080101, on right bank 60 ft upstream from Fall Creek, 0.8 mi downstream from Bear Creek, 6.7 mi north of Vallecito Dam, and 18 mi north of Bayfield.

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 fair except for estimated daily discharges, which are poor. No diversion upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods occurred in October 1911 and June 1927.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	53	48	25	23	22	104	188	1110	522	560	215
2	50	51	e43	25	24	25	95	171	1140	450	412	147
3	160	56	41	29	23	24	88	172	1070	434	404	107
4	189	53	e40	27	23	22	85	232	1120	404	376	95
5	178	54	e39	26	22	22	76	325	1130	376	606	87
6	176	52	e42	e24	e21	22	69	382	991	358	521	81
7	167	48	43	e20	e17	21	65	390	920	324	466	75
8	148	48	43	e20	e18	22	61	356	835	272	343	71
9	134	49	43	e20	e19	23	59	326	586	278	286	67
10	121	53	43	e21	e21	25	56	310	558	287	466	65
11	111	57	43	e22	21	31	52	374	653	299	458	70
12	101	61	41	e21	21	40	48	496	719	289	314	89
13	94	65	39	17	21	46	48	615	693	317	252	78
14	87	66	37	e18	21	48	47	765	584	324	212	86
15	78	67	32	e20	22	47	50	869	544	315	174	123
16	72	68	e30	e21	22	51	62	943	586	303	154	203
17	67	64	27	e20	22	54	86	961	703	286	137	122
18	61	66	e21	e21	23	52	111	890	880	294	132	101
19	61	65	e25	e22	22	62	154	825	922	358	122	94
20	60	72	e29	e23	23	90	198	716	954	338	115	159
21	53	72	e34	e24	23	117	245	695	939	302	108	976
22	47	81	e36	e23	23	118	256	636	903	291	102	840
23	51	78	32	23	22	127	244	504	856	378	99	406
24	49	71	30	23	22	128	205	472	779	335	111	295
25	49	66	30	22	22	112	170	425	637	276	124	251
26	48	63	31	e21	22	102	150	376	539	279	156	225
27	51	e60	30	e22	21	103	160	340	494	311	125	215
28	61	e54	28	e22	15	102	208	332	545	364	108	176
29	61	e50	27	22	---	103	211	361	584	526	99	149
30	61	56	26	21	---	105	188	622	595	971	101	128
31	57	---	26	22	---	111	---	983	---	960	142	---
TOTAL	2755	1819	1079	687	599	1977	3651	16052	23569	11821	7785	5796
MEAN	88.9	60.6	34.8	22.2	21.4	63.8	122	518	786	381	251	193
MAX	189	81	48	29	24	128	256	983	1140	971	606	976
MIN	47	48	21	17	15	21	47	171	494	272	99	65
AC-FT	5460	3610	2140	1360	1190	3920	7240	31840	46750	23450	15440	11500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1997, BY WATER YEAR (WY)

MEAN	79.0	44.4	27.6	21.3	20.4	34.9	113	402	536	251	135	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1963 - 1997	
ANNUAL TOTAL	37840		77590			
ANNUAL MEAN	103		213		149	
HIGHEST ANNUAL MEAN					226	1973
LOWEST ANNUAL MEAN					63.3	1977
HIGHEST DAILY MEAN	633	May 16	1140	Jun 2	3020	Sep 6 1970
LOWEST DAILY MEAN	e,a16	Jan 2	15	Feb 28	6.7	Dec 28 1976
ANNUAL SEVEN-DAY MINIMUM	17	Jan 2	20	Jan 12	7.4	Dec 23 1976
INSTANTANEOUS PEAK FLOW			1360	Jul 30	b7050	Sep 6 1970
INSTANTANEOUS PEAK STAGE			3.01	Jul 30	c6.51	Sep 6 1970
ANNUAL RUNOFF (AC-FT)	75060		153900		107800	
10 PERCENT EXCEEDS	257		610		424	
50 PERCENT EXCEEDS	54		88		62	
90 PERCENT EXCEEDS	20		22		18	

e-Estimated.
a-Also occurred Jan 3 and 19.
b-From rating curve extended above 1400 ft^3/s, on basis of slope-area measurement of peak flow.
c-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 SW1/4SW1/4 sec.18, T.36 N., R.6 W., La Plata County, Hydrologic Unit 14080101, in gatehouse above outlet gates at Vallecito Dam on Los Pinos (Pine) River, 300 ft left of spillway, 0.4 mi upstream from Jack Creek, and 11 mi northeast of Bayfield.

DRAINAGE AREA.--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 (revised). 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, 124,690 acre-ft, June 28-29, elevation, 7,664.65 ft; minimum, 27,970 acre- ft, Oct. 1, elevation, 7,618.99 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0900, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	7,618.96	27,930	-
Oct. 31	7,624.63	36,000	+8,070
Nov. 30	7,629.95	44,850	+8,850
Dec. 31	7,633.00	50,410	+5,560
CAL YR 1996	-	-	-24,730
Jan. 31	7,635.90	56,020	+5,610
Feb. 28	7,638.04	60,350	+4,330
Mar. 31	7,633.02	50,440	-9,910
Apr. 30	7,635.59	55,410	+4,970
May 31	7,656.26	102,640	+47,230
June 30	7,664.63	124,630	+21,990
July 31	7,663.82	122,440	-2,190
Aug. 31	7,658.01	107,110	-15,330
Sept. 30	7,650.72	88,890	-18,220
WTR YR 1997	-	-	+60,960

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. Datum of gage is 6,143.59 ft above sea level.

REMARKS.--Records fair 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 33,000 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e80	52	e61	e49	e52	e76	684	601	279	747	1880	388
2	e62	50	e54	e46	e56	e84	594	657	276	630	1320	337
3	e80	56	e54	e55	e59	e95	568	640	507	386	1310	309
4	e140	79	e50	e80	e56	e95	627	640	1150	414	1160	322
5	e200	59	e48	e70	e54	e80	622	663	1600	359	786	322
6	e150	49	e54	e65	e50	e100	598	640	1680	345	886	309
7	e120	42	e64	e60	e43	e150	663	611	1790	253	873	295
8	e105	38	e56	e46	e45	e200	664	598	1980	175	763	283
9	e94	40	e56	e46	e48	e450	623	522	1960	153	502	279
10	e86	42	56	e48	e50	e600	466	520	1960	148	485	283
11	e80	42	e68	e50	e54	e720	441	480	1920	148	513	295
12	e74	42	e70	e53	e56	e850	420	502	1550	150	432	317
13	e80	42	e66	e50	58	e950	410	436	1540	145	410	304
14	e110	42	e62	e45	53	1050	400	e470	1480	145	395	330
15	e160	46	e58	e43	54	950	306	e520	1480	130	363	335
16	e170	77	e50	e49	56	913	232	e580	1480	113	354	413
17	e180	58	e42	e50	62	936	241	e620	947	120	349	364
18	e150	56	e37	e48	70	889	270	e660	874	132	384	349
19	e70	63	e32	e50	93	846	287	e640	852	145	359	345
20	e56	65	e40	e54	107	797	308	e620	845	188	327	353
21	e64	62	e50	e56	112	944	326	e600	852	159	304	935
22	e55	59	e54	e57	e105	952	362	e680	887	173	295	1720
23	e48	84	e56	e56	e95	929	499	e660	1320	173	299	1830
24	e48	77	e52	e55	e100	905	520	e620	1220	170	283	1760
25	51	64	e47	e54	e92	764	491	e560	1010	158	283	1770
26	51	59	e48	e51	e92	713	452	e470	624	164	279	1770
27	56	63	e50	e49	e88	726	430	e430	610	170	279	1740
28	92	e57	e51	e52	e88	760	430	e410	696	232	271	1710
29	107	e52	e51	e51	---	782	435	e370	746	451	263	1420
30	70	e64	e49	e51	---	727	451	331	754	678	265	575
31	56	---	e48	e51	---	705	---	288	---	1980	294	---
TOTAL	2945	1681	1634	1640	1948	19738	13820	17039	34869	9534	16966	21762
MEAN	95.0	56.0	52.7	52.9	69.6	637	461	550	1162	308	547	725
MAX	200	84	70	80	112	1050	684	680	1980	1980	1880	1830
MIN	48	38	32	43	43	76	232	288	276	113	263	279
AC-FT	5840	3330	3240	3250	3860	39150	27410	33800	69160	18910	33650	43160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1997, BY WATER YEAR (WY)

MEAN	192	137	103	75.6	99.9	224	353	445	519	308	222	214
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1951 - 1997	
ANNUAL TOTAL	32644		143576			
ANNUAL MEAN	89.2		393		245	
HIGHEST ANNUAL MEAN					582	1973
LOWEST ANNUAL MEAN					77.4	1959
HIGHEST DAILY MEAN	380	Jul 9	[a]1980	Jun 8	4560	Jul 27 1957
LOWEST DAILY MEAN	12	Apr 23	[e]32	Dec 19	6.1	May 1 1977
ANNUAL SEVEN-DAY MINIMUM	25	Apr 17	41	Nov 7	8.3	Apr 30 1977
INSTANTANEOUS PEAK FLOW			2080	Jul 31	[b]6400	Jul 27 1957
INSTANTANEOUS PEAK STAGE			6.46	Jul 31	[c]8.95	Jul 27 1957
ANNUAL RUNOFF (AC-FT)	64750		284800		177400	
10 PERCENT EXCEEDS	151		935		558	
50 PERCENT EXCEEDS	75		253		133	
90 PERCENT EXCEEDS	47		50		50	

e-Estimated.
a-Also occurred Jul 31.
b-From rating curve extended above 5100 ft^3/s.
c-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. 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e10	e7.3	e8.0	e7.0	e7.8	e8.7	13	e28	73	56	28	69
2	e11	e7.0	e7.6	e6.6	e8.2	e8.4	14	e27	74	53	24	59
3	e13	e7.7	e7.4	e8.0	e8.5	8.0	12	e24	78	53	20	55
4	e20	e11	e7.2	e11	e8.0	9.8	20	e26	78	58	29	55
5	e27	e8.8	e7.0	e10	e7.6	11	e18	e32	74	55	49	53
6	e20	e7.0	e7.6	e9.2	e6.7	e11	e16	e38	66	58	34	53
7	e17	e6.2	e8.8	e8.2	e6.4	10	e14	e44	103	61	30	51
8	e15	e5.6	e8.0	e6.6	e6.6	22	e13	e46	106	58	31	49
9	e14	e5.4	e8.0	e6.6	e7.2	40	e13	e47	74	61	33	48
10	e14	e5.8	e8.0	e6.8	e7.6	59	e13	e48	72	65	65	55
11	e13	e5.8	e9.6	e7.4	e8.0	92	e12	e47	58	65	43	54
12	13	e5.8	e9.8	e7.6	e8.0	105	e11	e45	57	67	38	67
13	13	e5.8	e8.0	e7.0	e8.4	112	e10	e48	68	64	48	57
14	17	e6.0	e5.6	e6.2	e8.0	72	e9.5	e56	68	59	42	69
15	22	e6.6	e4.8	e6.2	e8.2	41	e9.5	e64	66	52	35	58
16	22	e11	e4.5	e7.0	e8.6	30	e10	e72	69	52	35	68
17	e22	e9.0	e4.5	e7.0	e9.6	30	e13	e73	67	56	36	56
18	e17	e8.0	e4.4	e6.7	e11	25	e16	e73	66	56	42	52
19	e13	e8.6	e4.8	e7.2	e11	22	e19	e72	66	70	38	54
20	e8.0	e9.0	e6.0	e7.8	e11	25	e23	e70	63	106	39	54
21	e8.7	e8.6	e7.0	e8.2	e11	32	e28	e70	62	93	42	260
22	e7.8	e8.4	e7.6	e8.2	e10	32	e31	e77	61	96	49	117
23	e7.2	e11	e7.8	e8.0	9.5	27	e32	e81	63	87	52	39
24	7.1	e11	e7.2	e7.7	9.4	25	e31	e76	61	76	48	34
25	6.3	e9.4	e6.6	e7.4	e9.5	18	e29	e70	58	71	48	36
26	5.5	e8.6	e6.8	e7.2	e9.0	14	e26	e60	59	67	68	33
27	7.1	e8.0	e7.0	e7.2	e9.0	13	e22	e54	62	72	56	30
28	e11	e7.6	e7.2	e7.5	e8.8	13	e22	e57	65	124	49	31
29	e15	e7.4	e7.0	e7.5	---	15	e26	59	65	259	54	33
30	e11	e8.6	e6.8	e7.5	---	12	e27	58	62	253	55	28
31	e8.6	---	e6.6	e7.5	---	12	---	65	---	210	61	---
TOTAL	416.3	236.0	217.2	234.0	242.6	954.9	553.0	1707	2064	2633	1321	1777
MEAN	13.4	7.87	7.01	7.55	8.66	30.8	18.4	55.1	68.8	84.9	42.6	59.2
MAX	27	11	9.8	11	11	112	32	81	106	259	68	260
MIN	5.5	5.4	4.4	6.2	6.4	8.0	9.5	24	57	52	20	28
AC-FT	826	468	431	464	481	1890	1100	3390	4090	5220	2620	3520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1997, BY WATER YEAR (WY)

MEAN	34.8	10.7	5.54	4.76	10.2	19.3	13.8	39.9	58.0	67.6	67.0	59.4
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1951 - 1997	
ANNUAL TOTAL	14231.4		12356.0			
ANNUAL MEAN	38.9		33.9		33.0	
HIGHEST ANNUAL MEAN					47.7	1987
LOWEST ANNUAL MEAN					15.6	1977
HIGHEST DAILY MEAN	222	Sep 14	260	Sep 21	918	Mar 6 1995
LOWEST DAILY MEAN	e1.8	Feb 4	e4.4	Dec 18	1.0	Feb 25 1951
ANNUAL SEVEN-DAY MINIMUM	2.0	Jan 22	4.9	Dec 14	1.0	Dec 7 1959
INSTANTANEOUS PEAK FLOW			737	Jul 30	a1980	Sep 6 1970
INSTANTANEOUS PEAK STAGE			3.49	Jul 30	b4.62	Sep 6 1970
ANNUAL RUNOFF (AC-FT)	28230		24510		23910	
10 PERCENT EXCEEDS	125		70		72	
50 PERCENT EXCEEDS	9.8		22		23	
90 PERCENT EXCEEDS	2.2		7.0		3.3	

e-Estimated.
a-From rating curve extended above 160 ft^3/s, on the basis of field estimate of peak flow.
b-Maximum gage height, 5.98 ft, Mar 9, 1960, backwater from ice.

09358000 ANIMAS RIVER AT SILVERTON, CO

LOCATION.--Lat 37°48'40", long 107°39'31", in 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	e52	e35	e33	e30	e30	e56	87	907	652	303	85
2	53	e48	e35	e33	e31	e29	e52	76	935	582	285	79
3	105	49	e35	e34	e31	e29	e52	76	1060	558	309	74
4	105	49	e36	e36	e31	e29	e52	90	1180	531	290	74
5	103	48	e38	e35	e31	e29	e52	118	1030	484	352	72
6	106	e48	e39	e33	e31	e28	e47	144	987	452	294	70
7	109	e47	e39	e32	e30	e28	e44	147	808	404	254	66
8	113	e47	e38	e29	e28	e28	e43	145	720	363	225	63
9	118	e46	e38	e28	e28	e27	e41	131	549	353	203	62
10	121	e46	e40	e29	e28	e28	e40	125	468	360	278	62
11	120	e46	e39	e31	e29	e31	e39	152	499	366	266	60
12	116	e47	e38	e33	e30	e33	e38	217	570	354	227	68
13	112	e47	e37	e32	e31	e36	e38	299	565	390	207	65
14	107	e47	e36	e25	e30	e37	e37	383	544	394	195	74
15	99	e48	e35	e31	e29	e36	e39	452	575	389	175	97
16	95	e49	e34	e30	e30	e36	45	568	637	364	162	141
17	87	e48	e35	e29	e31	e37	57	610	805	337	147	104
18	79	e47	e38	e28	e33	e37	74	600	988	346	136	93
19	81	e45	e36	e28	e32	e40	100	608	1020	346	127	85
20	72	e46	e32	e30	e32	e50	116	535	1020	345	119	90
21	65	e47	e32	e31	e32	e60	129	517	1030	335	112	266
22	e63	e48	e33	e31	e32	e64	118	424	1030	354	109	300
23	59	e47	e35	e31	e31	e68	106	372	1010	373	109	236
24	59	e45	e34	e30	e29	e72	94	368	882	347	105	212
25	59	e42	e31	e29	e27	e62	83	314	701	302	100	202
26	e56	e40	e33	e29	e28	e56	80	271	670	274	113	213
27	56	e38	e34	e30	e29	e56	84	244	652	272	102	239
28	55	e36	e35	e30	e30	e56	98	239	621	299	94	209
29	e56	e35	e35	e30	---	e56	96	250	665	303	88	179
30	e53	e33	e34	e30	---	e56	87	377	693	346	82	154
31	e52	---	e34	e31	---	e54	---	671	---	364	84	---
TOTAL	2588	1361	1103	951	844	1318	2037	9610	23821	11939	5652	3794
MEAN	83.5	45.4	35.6	30.7	30.1	42.5	67.9	310	794	385	182	126
MAX	121	52	40	36	33	72	129	671	1180	652	352	300
MIN	52	33	31	25	27	27	37	76	468	272	82	60
AC-FT	5130	2700	2190	1890	1670	2610	4040	19060	47250	23680	11210	7530

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1997, BY WATER YEAR (WY)

MEAN	55.2	35.9	27.4	24.9	26.0	31.3	58.7	320	605	353	138	82.5
MAX	83.5	45.4	35.7	33.8	36.1	43.3	69.4	454	794	734	253	126
(WY)	1997	1997	1995	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1992 - 1997	
ANNUAL TOTAL	43597		65018			
ANNUAL MEAN	119		178		147	
HIGHEST ANNUAL MEAN					194	1995
LOWEST ANNUAL MEAN					103	1992
HIGHEST DAILY MEAN	861	May 19	1180	Jun 4	1180	Jun 4 1997
LOWEST DAILY MEAN	e,a 26	Mar 6	e 25	Jan 14	12	Jan 1 1992
ANNUAL SEVEN-DAY MINIMUM	27	Mar 3	28	Mar 4	13	Jan 16 1992
INSTANTANEOUS PEAK FLOW			1470	Jun 4	1470	Jun 4 1997
INSTANTANEOUS PEAK STAGE			b 3.99	Jun 4	c 3.99	Jun 4 1997
ANNUAL RUNOFF (AC-FT)	86470		129000		106400	
10 PERCENT EXCEEDS	372		539		427	
50 PERCENT EXCEEDS	48		65		48	
90 PERCENT EXCEEDS	30		30		19	

e-Estimated.
a-Also occurred Mar 7-8.
b-Maximum gage height, 4.27 ft, Jun 22, change in channel geometry.
c-Maximum gage height during period Jun to Oct 1903, 4.90 ft, Jun 17, 1903, 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 good 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	17	e16	e14	e13	e13	22	30	288	137	49	22
2	15	17	16	e14	14	e13	20	28	214	125	47	20
3	26	17	e16	e15	14	13	20	30	219	118	48	18
4	25	17	e16	16	e14	13	20	45	253	109	44	20
5	28	17	e16	e15	14	e13	19	65	269	102	52	18
6	28	17	16	e14	13	e13	18	81	217	98	45	18
7	28	16	15	e13	e13	e13	18	80	183	91	39	17
8	27	18	e15	e13	e13	e13	18	68	164	81	35	17
9	25	17	15	e13	e13	14	17	56	127	75	33	17
10	24	17	16	e13	e13	15	17	53	121	75	52	17
11	23	18	15	e14	13	16	17	78	137	76	43	16
12	23	18	15	e14	14	17	16	106	151	74	36	16
13	22	18	15	e14	13	17	16	129	144	78	33	13
14	21	18	15	e12	e13	17	17	143	134	77	32	15
15	20	18	e14	e14	13	17	17	166	134	75	29	22
16	20	18	e14	e13	14	17	20	174	138	70	27	32
17	19	e17	e16	e13	14	18	24	168	165	65	25	21
18	18	17	e15	e13	13	17	29	166	191	61	24	19
19	18	17	e14	e13	14	19	38	156	198	57	24	19
20	18	18	e13	14	14	25	50	143	217	60	22	23
21	18	e17	e14	14	14	27	51	142	205	56	21	72
22	18	18	e15	13	e14	27	41	123	201	53	22	81
23	18	18	e14	14	13	29	36	114	201	54	23	59
24	17	17	e13	14	13	28	30	111	191	51	21	49
25	18	e16	e13	e13	13	22	27	97	165	47	20	44
26	17	e16	e14	e13	e13	22	27	82	153	45	26	42
27	17	16	e15	e13	13	23	34	74	147	45	23	41
28	18	e16	e15	e13	e13	23	39	72	141	53	20	37
29	17	e16	e14	e13	---	24	33	84	145	50	19	33
30	17	16	e14	e13	---	23	30	148	145	62	21	30
31	17	---	e14	e13	---	23	---	232	---	57	22	---
TOTAL	635	513	458	420	375	584	781	3244	5358	2277	977	868
MEAN	20.5	17.1	14.8	13.5	13.4	18.8	26.0	105	179	73.5	31.5	28.9
MAX	28	18	16	16	14	29	51	232	288	137	52	81
MIN	15	16	13	12	13	13	16	28	121	45	19	13
MED	18	17	15	13	13	17	21	97	165	70	27	21
AC-FT	1260	1020	908	833	744	1160	1550	6430	10630	4520	1940	1720

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1997, BY WATER YEAR (WY)

MEAN	18.0	15.8	13.2	12.7	13.5	17.0	29.3	107	162	72.6	29.1	22.6
MAX	21.7	17.8	15.6	15.8	17.8	22.7	35.4	145	263	149	45.9	28.9
(WY)	1995	1995	1995	1995	1995	1995	1996	1996	1995	1995	1995	1997
MIN	14.0	13.3	10.6	8.63	9.91	13.4	24.1	57.2	85.2	29.3	18.1	17.5
(WY)	1992	1992	1992	1992	1993	1993	1995	1995	1996	1996	1996	1996

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1992 - 1997	
ANNUAL TOTAL	13164		16490			
ANNUAL MEAN	36.0		45.2		42.8	
HIGHEST ANNUAL MEAN					56.3	1995
LOWEST ANNUAL MEAN					32.1	1992
HIGHEST DAILY MEAN	244	May 16	288	Jun 1	385	Jun 16 1995
LOWEST DAILY MEAN	e,a 13	Mar 4	e 12	Jan 14	7.5	Jan 2 1992
ANNUAL SEVEN-DAY MINIMUM	14	Feb 28	13	Jan 25	8.4	Dec 30 1991
INSTANTANEOUS PEAK FLOW			385	Jun 1	471	Jun 14 1995
INSTANTANEOUS PEAK STAGE			2.69	Jun 1	2.85	Jun 14 1995
ANNUAL RUNOFF (AC-FT)	26110		32710		31000	
10 PERCENT EXCEEDS	87		137		112	
50 PERCENT EXCEEDS	18		20		19	
90 PERCENT EXCEEDS	15		13		12	

e-Estimated.
a-Also occurred Mar 5, Dec 20, and 24-25.

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 9245.982 ft above sea level, from San Juan County bench mark.

REMARKS.--Records fair except for flows above 750 ft^3/s and 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	e45	e28	e26	e23	e22	e40	65	779	524	249	110
2	49	e44	e28	e26	e24	e21	e38	60	903	449	219	101
3	83	45	e29	e27	e24	e21	e36	62	852	429	280	96
4	85	44	e30	e28	e24	e21	e37	77	964	399	229	103
5	87	43	e31	e27	e24	e21	e36	105	959	363	302	102
6	91	e42	e32	e25	e24	e21	e33	137	802	340	246	94
7	97	e40	e31	e23	e23	e21	e32	151	649	288	188	88
8	100	e44	e31	e21	e21	e21	e31	138	558	241	160	83
9	105	e44	e31	e22	e21	e21	e29	118	423	246	151	83
10	107	e45	e32	e23	e22	e21	e28	110	399	247	311	83
11	103	e45	e32	e25	e23	e23	e27	135	487	254	288	86
12	98	e46	e31	e26	e23	e24	e26	179	545	246	217	107
13	91	e46	e30	e23	e23	e27	e26	234	509	277	192	105
14	85	e45	e30	e20	e22	e27	e28	287	470	293	180	124
15	77	e45	e28	e24	e22	e26	e30	334	483	301	159	154
16	73	e43	e27	e23	e22	e26	33	385	472	269	147	212
17	66	e42	e28	e22	e23	e27	39	398	533	238	136	149
18	61	e42	e31	e22	e24	e27	44	398	637	235	129	126
19	62	e38	e28	e23	e25	e30	57	383	723	226	120	119
20	59	e37	e26	e24	e24	e35	79	352	813	262	113	124
21	52	e37	e26	e25	e24	e43	96	352	798	215	108	287
22	e52	e38	e27	e25	e23	e46	87	308	784	220	109	325
23	51	e37	e28	e24	e22	e48	77	274	753	256	108	251
24	49	e35	e26	e23	e22	e45	68	275	671	234	104	211
25	50	e34	e25	e23	e21	e41	61	238	540	202	106	181
26	e48	e32	e26	e23	e21	e40	58	200	503	195	152	166
27	48	e30	e28	e23	e22	e40	62	178	492	207	131	167
28	49	e28	e28	e23	e23	e40	74	175	478	283	118	144
29	e48	e28	e27	e22	---	e40	72	188	519	297	107	127
30	e48	e27	e26	e23	---	e40	66	301	555	380	105	115
31	e46	---	e26	e23	---	e39	---	531	---	345	107	---
TOTAL	2169	1191	887	737	639	945	1450	7128	19053	8961	5271	4223
MEAN	70.0	39.7	28.6	23.8	22.8	30.5	48.3	230	635	289	170	141
MAX	107	46	32	28	25	48	96	531	964	524	311	325
MIN	46	27	25	20	21	21	26	60	399	195	104	83
AC-FT	4300	2360	1760	1460	1270	1870	2880	14140	37790	17770	10460	8380

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1997, BY WATER YEAR (WY)

MEAN	45.4	30.6	23.6	20.1	20.9	26.3	51.5	242	464	271	126	78.7
MAX	70.0	39.7	28.6	27.1	29.5	36.1	64.2	337	635	540	219	141
(WY)	1997	1997	1997	1995	1995	1995	1992	1996	1997	1995	1995	1997
MIN	28.3	24.7	18.3	13.4	14.7	18.4	41.2	96.5	257	86.5	44.3	55.6
(WY)	1992	1992	1992	1992	1992	1992	1995	1995	1996	1996	1996	1996

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1992 - 1997	
ANNUAL TOTAL	31685		52654			
ANNUAL MEAN	86.6		144		117	
HIGHEST ANNUAL MEAN					145	1995
LOWEST ANNUAL MEAN					82.9	1996
HIGHEST DAILY MEAN	658	May 17	964	Jun 4	964	Jun 4 1997
LOWEST DAILY MEAN	e16	Jan 26	e20	Jan 14	12	Jan 2 1992
ANNUAL SEVEN-DAY MINIMUM	18	Jan 21	21	Mar 2	13	Jan 12 1992
INSTANTANEOUS PEAK FLOW			1540	Jun 1	1670	Jun 15 1995
INSTANTANEOUS PEAK STAGE			3.21	Jun 1	3.41	Jun 15 1995
ANNUAL RUNOFF (AC-FT)	62850		104400		84690	
10 PERCENT EXCEEDS	235		398		327	
50 PERCENT EXCEEDS	44		57		42	
90 PERCENT EXCEEDS	20		23		19	

e-Estimated.

09359020 ANIMAS RIVER BELOW SILVERTON, CO

LOCATION.--Lat 37°47'25", long 107°40'01", in SW1/4SW1/4 sec.20, T.41 N., R.7 W., San Juan County, Hydrologic Unit 14080104, on right bank 500 ft upstream from Durango-Silverton Railroad, crossing Animas River, 0.7 mi downstream from Mineral Creek, and 1.1 mi south of Silverton.

DRAINAGE AREA.--146 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	110	e70	e67	e62	e62	116	197	2240	1480	748	271
2	126	105	e70	e66	e64	e59	108	189	2140	1260	669	255
3	224	107	71	e70	e64	e60	107	194	1960	1200	745	242
4	237	106	e74	73	e64	61	112	235	2280	1100	685	244
5	231	104	e76	e70	e64	e60	103	310	2040	984	762	241
6	231	103	e80	e68	e64	e58	96	406	1750	954	689	229
7	237	100	e80	e64	e62	e58	94	438	1380	864	586	219
8	243	e105	e78	e56	e58	56	89	415	1240	826	540	203
9	246	e105	e78	e57	e57	55	87	367	936	797	498	207
10	248	110	e81	e60	e59	61	84	344	879	776	648	209
11	240	110	81	e64	e61	66	81	445	1130	790	592	215
12	231	112	77	e68	e64	72	78	638	1350	766	516	248
13	221	112	76	e66	e64	78	79	832	1290	809	464	244
14	213	110	76	e54	e61	79	85	970	1190	800	436	275
15	196	111	e74	e66	e60	74	90	1090	1260	796	428	304
16	187	109	e68	e62	e61	76	105	1290	1350	768	409	380
17	173	102	e70	e60	e64	78	131	1340	1620	721	388	332
18	159	106	e80	e58	68	77	154	1340	1920	731	373	310
19	158	100	e72	e60	e67	88	200	1300	1970	724	352	303
20	153	99	e66	e62	e65	111	246	1190	2170	745	337	312
21	138	93	e66	e65	e66	131	278	1150	2220	693	320	536
22	125	97	e69	e65	e66	133	247	979	2200	693	315	609
23	124	95	e72	e65	61	145	222	880	2090	745	313	506
24	123	89	e67	e62	e62	154	200	874	1820	712	302	480
25	125	e85	e63	e60	58	132	181	776	1530	650	295	464
26	119	e80	e65	e60	e59	121	178	665	1460	627	341	446
27	119	e77	e70	e62	61	120	191	582	1480	648	312	465
28	124	72	e72	e62	64	117	220	568	1410	760	293	414
29	121	69	e70	e60	---	119	209	622	1510	775	274	392
30	117	65	e68	e62	---	112	195	1020	1590	876	269	365
31	115	---	e68	e62	---	118	---	1710	---	859	271	---
TOTAL	5433	2948	2248	1956	1750	2791	4366	23356	49405	25929	14170	9920
MEAN	175	98.3	72.5	63.1	62.5	90.0	146	753	1647	836	457	331
MAX	248	112	81	73	68	154	278	1710	2280	1480	762	609
MIN	115	65	63	54	57	55	78	189	879	627	269	203
AC-FT	10780	5850	4460	3880	3470	5540	8660	46330	97990	51430	28110	19680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1997, BY WATER YEAR (WY)

MEAN	121	85.0	66.1	61.9	62.5	76.5	158	699	1239	633	281	196
MAX	175	99.1	80.2	78.6	85.6	105	192	1002	1647	1393	520	331
(WY)	1997	1995	1995	1995	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1992 - 1997	
ANNUAL TOTAL	91260		144272			
ANNUAL MEAN	249		395		307	
HIGHEST ANNUAL MEAN					395	1997
LOWEST ANNUAL MEAN					235	1992
HIGHEST DAILY MEAN	1840	May 17	2280	Jun 4	2350	Jul 10 1995
LOWEST DAILY MEAN	e,a60	Mar 6	e54	Jan 14	35	Jan 2 1992
ANNUAL SEVEN-DAY MINIMUM	62	Mar 2	58	Mar 3	39	Jan 18 1992
INSTANTANEOUS PEAK FLOW			2900	Jun 1	2970	Jul 9 1995
INSTANTANEOUS PEAK STAGE			4.90	Jun 1	b4.89	Jul 9 1995
ANNUAL RUNOFF (AC-FT)	181000		286200		222500	
10 PERCENT EXCEEDS	673		1170		871	
50 PERCENT EXCEEDS	113		154		112	
90 PERCENT EXCEEDS	68		62		58	

e-Estimated.
a-Also occurred Mar 7, 1996.
b-Maximum gage height, 4.90 ft, Jun 1, 1997.

09359020 ANIMAS RIVER BELOW SILVERTON, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Periodic water-quality: October 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	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)	SODIUM AD-SORP-TION RATIO (00931)
NOV												
19...	0930	100	440	6.5	0.0	10	210	0.1	77	4.3	3.0	0.1
APR												
28...	1100	214	333	6.4	5.5	8.8	150	0.1	53	3.6	2.3	0.1
JUN												
16...	0940	1240	138	6.8	4.0	9.2	59	<0.1	21	1.5	1.1	0.1
AUG												
13...	0945	467	214	6.9	7.0	8.8	92	<0.1	33	2.3	1.5	0.1

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE[a] WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY[b] WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA-LINITY[c] 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)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
NOV												
19...	0.8	12	10	--	200	1.0	0.6	13	332	309	0.45	89.6
APR												
28...	0.6	11	9	--	140	0.9	0.5	11	230	220	0.31	133
JUN												
16...	0.4	19	16	--	43	0.3	0.3	6.6	90	85	0.12	301
AUG												
13...	0.5	--	--	19	74	0.4	0.4	7.2	153	131	0.21	193

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)
NOV							
19...	1700	59	2.0	20	12	2900	1600
APR							
28...	1200	31	2.4	62	10	2000	870
JUN							
16...	470	42	<1.0	19	8.3	840	150
AUG							
13...	550	31	<1.0	12	3.4	700	140

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)
NOV							
19...	<1.0	810	840	<0.1	<1	<0.20	560
APR							
28...	<1.0	1100	1130	0.1	<1	<0.20	686
JUN							
16...	<1.0	320	249	<0.1	<1	<0.20	298
AUG							
13...	<1.0	400	433	<0.1	<1	<0.20	252

a-Field dissolved bicarbonate, determined by incremental titration method.
b-Field dissolved alkalinity, determined by incremental titration method.
c-Lab dissolved alkalinity, determined by fixed-end point method.

09359020 ANIMAS RIVER BELOW SILVERTON, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT				
09...	1430	241	305	9.5
JAN				
08...	1130	56	570	0.0
31...	1100	74	565	0.5
FEB				
26...	1100	65	642	0.5
MAR				
26...	1200	120	466	5.0
JUN				
12...	0950	1230	84	4.0
25...	1310	1350	130	8.5
JUL				
14...	1115	769	159	7.0
31...	1115	856	155	9.5

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.--Records good except for estimated daily discharges, which are fair. 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	312	369	347	270	249	250	1030	1360	5780	2970	2190	699
2	284	353	343	262	253	242	951	1260	6730	2600	1700	691
3	433	358	328	288	258	253	883	1180	5970	2480	1890	638
4	967	362	319	304	252	255	904	1300	5910	2350	1710	600
5	783	346	319	285	248	243	864	1720	6230	2170	2220	601
6	714	356	337	278	259	238	766	2190	5760	2040	2460	565
7	697	351	333	268	248	249	723	2560	4970	1890	2000	546
8	722	327	327	236	233	255	695	2510	4680	1680	1580	510
9	711	329	319	237	228	273	653	2300	3750	1580	1360	470
10	697	335	347	246	238	297	633	2150	3370	1560	1530	462
11	662	341	356	267	244	338	611	2120	3520	1600	2230	490
12	592	346	341	278	252	412	571	2490	3820	1490	1710	605
13	545	347	330	e272	252	505	547	3010	3830	1580	1470	611
14	505	351	316	216	250	566	538	3630	3470	1610	1330	648
15	472	367	299	e284	242	578	515	3990	3380	1580	1210	651
16	480	375	283	253	253	590	538	4430	3280	1510	1100	1290
17	491	362	295	e255	256	635	631	4850	3510	1390	998	1100
18	460	349	335	244	268	653	753	4940	4070	1350	915	909
19	437	367	282	242	266	695	940	4750	4200	1460	869	814
20	435	378	266	252	267	890	1150	4320	4530	1490	812	771
21	412	398	274	259	269	1160	1430	4380	4540	1410	766	2320
22	374	444	288	253	264	1210	1580	4380	4270	1410	740	4210
23	362	502	298	258	259	1270	1530	3770	4200	1570	736	2990
24	356	469	270	243	271	1310	1380	3500	3960	1560	727	2250
25	366	424	255	229	267	1140	1180	3280	3320	1380	720	1890
26	372	418	270	241	260	1030	1060	3000	3030	1220	846	1660
27	371	407	296	248	257	1000	1040	2640	2930	1240	896	1600
28	406	376	296	246	268	1010	1230	2430	2770	1310	784	1440
29	405	379	284	237	---	1050	1430	2360	2810	1870	684	1250
30	389	391	270	244	---	1030	1370	2730	2880	2030	647	1110
31	376	---	275	239	---	1030	---	4450	---	3140	646	---
TOTAL	15588	11277	9498	7934	7131	20657	28126	93980	125470	54520	39476	34391
MEAN	503	376	306	256	255	666	938	3032	4182	1759	1273	1146
MAX	967	502	356	304	271	1310	1580	4940	6730	3140	2460	4210
MIN	284	327	255	216	228	238	515	1180	2770	1220	646	462
AC-FT	30920	22370	18840	15740	14140	40970	55790	186400	248900	108100	78300	68210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1898 - 1997, BY WATER YEAR (WY)

MEAN	411	286	222	202	206	298	842	2307	2902	1219	585	462
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1898 - 1997	
ANNUAL TOTAL	205057		448048			
ANNUAL MEAN	560		1228		828	
HIGHEST ANNUAL MEAN					1366	1917
LOWEST ANNUAL MEAN					302	1977
HIGHEST DAILY MEAN	3680	May 17	6730	Jun 2	10700	Jun 19 1949
LOWEST DAILY MEAN	139	Aug 17	216	Jan 14	94	Mar 2 1913
ANNUAL SEVEN-DAY MINIMUM	144	Aug 15	241	Jan 25	100	Dec 19 1917
INSTANTANEOUS PEAK FLOW			7220	Jun 2	a25000	Oct 5 1911
INSTANTANEOUS PEAK STAGE			7.00	Jun 2	11.00	Oct 5 1911
ANNUAL RUNOFF (AC-FT)	406700		888700		599500	
10 PERCENT EXCEEDS	1280		3340		2240	
50 PERCENT EXCEEDS	341		651		343	
90 PERCENT EXCEEDS	167		253		180	

e-Estimated.
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 fair. 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	.76	.83	.81	.74	.76	.99	1.2	2.5	3.8	2.4	1.2
2	.77	.75	.83	.83	.74	.77	.99	1.1	2.7	3.8	2.2	.80
3	1.2	.77	.81	2.5	.74	.80	.98	1.1	2.6	3.5	2.3	.78
4	.77	.76	.81	.99	.74	.78	1.4	1.1	2.7	3.6	2.9	.77
5	.73	.76	.81	.78	.74	.76	1.4	1.1	3.1	4.3	2.8	.79
6	.72	.76	.84	.76	.74	.77	1.2	1.2	3.0	3.8	1.9	.80
7	.73	.76	.81	.75	.74	.78	1.2	1.2	3.2	3.6	1.6	.81
8	.73	.76	.81	.75	.74	.81	.96	1.3	3.5	3.7	1.5	.77
9	.73	.76	.81	.75	.74	.83	.96	1.3	3.4	3.4	1.4	.75
10	.73	.76	.90	.75	.74	.87	.96	1.4	3.1	3.3	2.1	.75
11	.73	.78	.95	.75	.74	.96	.95	1.4	2.8	2.8	1.7	.85
12	.74	.76	.92	.75	.74	1.4	.95	1.4	3.1	2.5	1.2	.91
13	.74	.76	.89	.76	.75	2.6	.95	1.4	3.7	2.2	1.1	1.0
14	.74	.77	.88	.75	.75	4.7	.95	1.5	3.2	2.3	1.1	1.0
15	.74	.84	.84	.74	.74	4.4	.93	1.6	3.0	2.8	1.1	2.2
16	.74	.84	.83	.72	.75	7.0	.93	1.6	3.0	2.5	1.0	1.5
17	.74	.80	.93	.57	.75	9.9	.93	1.7	3.0	2.4	1.0	.78
18	.74	.84	1.9	.29	.79	8.7	.95	1.8	3.0	2.5	1.0	.77
19	.75	.84	.78	.28	.78	6.2	.91	2.0	3.7	3.3	.95	.74
20	.75	.85	.75	.28	.77	4.9	.93	2.2	3.5	3.3	.90	2.0
21	.75	.85	.74	.28	.76	4.1	.96	2.8	2.5	2.9	.89	14
22	.75	1.0	.77	.28	.76	2.6	.98	2.6	2.1	3.2	.91	10
23	.75	.95	.82	.27	.76	1.7	1.1	2.3	2.2	3.2	.92	4.3
24	.75	.88	.81	.26	.76	1.3	1.2	2.5	2.3	2.9	.85	3.8
25	.75	.85	.80	.27	.78	1.0	1.1	3.1	2.2	2.6	.78	3.8
26	.76	.85	.78	.29	.76	.99	1.0	3.0	2.3	2.5	.81	3.6
27	.79	.83	.79	.37	.78	.98	1.0	3.1	2.7	2.7	.76	3.5
28	.96	.82	.81	.69	.79	.98	1.0	3.0	3.4	3.7	.76	3.1
29	.78	.89	.81	.71	---	.98	1.1	2.9	4.0	3.9	.75	3.0
30	.76	.88	.81	.72	---	.98	1.1	3.0	4.0	5.5	.75	2.8
31	.76	---	.81	.73	---	.98	---	2.7	---	3.7	1.1	---
TOTAL	23.83	24.48	26.68	20.43	21.11	75.28	30.96	59.6	89.5	100.2	41.43	71.87
MEAN	.77	.82	.86	.66	.75	2.43	1.03	1.92	2.98	3.23	1.34	2.40
MAX	1.2	1.0	1.9	2.5	.79	9.9	1.4	3.1	4.0	5.5	2.9	14
MIN	.72	.75	.74	.26	.74	.76	.91	1.1	2.1	2.2	.75	.74
AC-FT	47	49	53	41	42	149	61	118	178	199	82	143

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1997, BY WATER YEAR (WY)

MEAN	1.22	1.17	1.15	1.02	1.03	1.70	.90	1.40	1.99	1.90	1.33	1.60
MAX	1.67	1.53	1.45	1.38	1.30	2.43	1.03	1.92	2.98	3.23	1.84	2.40
(WY)	1996	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1995 - 1997	
ANNUAL TOTAL	338.61		585.37			
ANNUAL MEAN	.93		1.60		1.36	
HIGHEST ANNUAL MEAN					1.60	1997
LOWEST ANNUAL MEAN					1.11	1996
HIGHEST DAILY MEAN	1.9	Dec 18	14	Sep 21	14	Sep 21 1997
LOWEST DAILY MEAN	.64	Sep 16	.26	Jan 24	.26	Jan 24 1997
ANNUAL SEVEN-DAY MINIMUM	.66	Sep 15	.27	Jan 19	.27	Jan 19 1997
INSTANTANEOUS PEAK FLOW			22	Sep 21	22	Sep 21 1997
INSTANTANEOUS PEAK STAGE			3.64	Sep 21	3.64	Sep 21 1997
ANNUAL RUNOFF (AC-FT)	672		1160		983	
10 PERCENT EXCEEDS	1.4		3.3		2.5	
50 PERCENT EXCEEDS	.84		.93		1.1	
90 PERCENT EXCEEDS	.73		.74		.74	

09362600 RAINBOW SPRINGS TROUT RANCH NEAR BONDAD, CO

LOCATION.--Lat 37°08'50", long 107°52'08", in NE1/4SW1/4 sec.31, T.34 N., R.9 W., La Plata County, Hydrologic Unit 14080104, on right bank 80 ft upstream from trout rearing pens, 500 ft upstream from La Plata County Road 214, 1,000 ft upstream from irrigation ditch and mouth, 10.8 mi north of Bondad, and 10 mi south of Durango.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May 1995 to September 1997 (discontinued). Water-quality data available June 1995 to May 1996 at present site.

GAGE.--Water-stage recorder. Elevation of gage is 6,380 ft above sea level, from topographic map.

REMARKS.--Records fair. Florida Farmers Ditch diverts some project water from Florida River for irrigation of fields above the spring location. At times some return flow will enter the drainage upstream of the gage location. 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.3	1.4	1.3	1.4	1.4	1.3	1.4	1.2	1.5	1.9	1.9
2	1.8	1.3	1.4	1.3	1.4	1.4	1.3	1.4	1.2	1.6	1.9	1.8
3	1.8	1.3	1.4	1.4	1.4	1.4	1.3	1.4	1.2	1.6	1.9	1.9
4	1.7	1.3	1.4	1.3	1.4	1.4	1.4	1.4	1.2	1.6	1.9	1.9
5	1.6	1.3	1.4	1.3	1.4	1.4	1.4	1.4	1.2	1.6	2.0	1.8
6	1.6	1.3	1.4	1.3	1.4	1.4	1.3	1.4	1.3	1.7	1.9	1.8
7	1.6	1.3	1.4	1.3	1.4	1.4	1.3	1.4	1.4	1.7	1.9	1.8
8	1.6	1.3	1.4	1.3	1.4	1.4	1.3	1.4	1.4	1.7	1.9	1.8
9	1.6	1.3	1.4	1.3	1.4	1.4	1.3	1.2	1.3	1.7	1.9	1.8
10	1.5	1.3	1.5	1.3	1.4	1.4	1.3	1.1	1.3	1.7	2.0	1.9
11	1.4	1.4	1.5	1.3	1.4	1.4	1.3	1.0	1.3	1.7	2.0	1.9
12	1.4	1.4	1.5	1.3	1.4	1.5	1.3	1.0	1.4	1.7	2.0	1.9
13	1.4	1.4	1.4	1.3	1.3	1.5	1.4	1.0	1.4	1.7	1.9	2.0
14	e1.4	1.4	1.4	1.3	1.3	1.2	1.4	1.0	1.4	1.7	2.0	1.9
15	e1.4	1.4	1.4	1.2	1.3	1.2	1.4	1.0	1.4	1.7	2.0	2.0
16	e1.4	1.4	1.4	1.2	1.3	1.2	1.4	1.0	1.4	1.8	1.9	1.9
17	e1.4	1.4	1.4	1.2	1.3	1.2	1.4	1.0	1.4	1.8	2.0	1.9
18	e1.4	1.4	1.4	1.2	1.3	1.2	1.4	1.0	1.4	1.8	2.0	1.9
19	e1.4	1.4	1.4	1.2	1.3	1.2	1.4	1.1	1.4	1.8	2.0	1.9
20	e1.4	1.4	1.4	1.3	1.3	1.2	1.4	1.1	1.4	1.8	2.0	2.0
21	e1.4	1.4	1.4	1.3	1.3	1.2	1.4	1.1	1.4	1.8	2.0	2.1
22	e1.4	1.5	1.4	1.3	1.3	1.2	1.4	1.1	1.4	1.8	2.0	2.0
23	1.3	1.5	1.4	1.3	1.3	1.2	1.4	1.1	1.5	1.9	2.0	2.0
24	1.3	1.5	1.3	1.3	1.3	1.3	1.4	1.1	1.5	1.8	1.9	2.0
25	1.3	1.5	1.3	1.3	1.4	1.3	1.4	1.1	1.5	1.8	1.9	2.0
26	1.3	1.5	1.3	1.2	1.4	1.3	1.4	1.1	1.5	1.8	1.9	2.0
27	1.3	1.5	1.3	1.2	1.4	1.3	1.4	1.1	1.5	1.8	1.9	2.0
28	1.4	1.5	1.3	1.2	1.4	1.3	1.4	1.1	1.5	2.0	1.9	2.0
29	1.3	1.5	1.3	1.2	---	1.3	1.4	1.1	1.5	1.9	1.9	2.0
30	1.3	1.5	1.3	1.3	---	1.3	1.4	1.1	1.5	2.0	1.9	2.0
31	1.3	---	1.3	1.3	---	1.3	---	1.1	---	2.0	1.9	---
TOTAL	45.2	41.9	42.9	39.5	38.0	40.8	41.0	35.8	41.4	54.5	60.2	57.8
MEAN	1.46	1.40	1.38	1.27	1.36	1.32	1.37	1.15	1.38	1.76	1.94	1.93
MAX	1.8	1.5	1.5	1.4	1.4	1.5	1.4	1.4	1.5	2.0	2.0	2.1
MIN	1.3	1.3	1.3	1.2	1.3	1.2	1.3	1.0	1.2	1.5	1.9	1.8
AC-FT	90	83	85	78	75	81	81	71	82	108	119	115

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1997, BY WATER YEAR (WY)

MEAN	1.74	1.62	1.53	1.50	1.56	1.55	1.54	1.33	1.53	1.69	1.77	1.82
MAX	2.02	1.83	1.68	1.72	1.75	1.79	1.72	1.51	1.64	1.76	1.94	1.93
(WY)	1996	1996	1996	1996	1996	1996	1996	1996	1995	1997	1997	1997
MIN	1.46	1.40	1.38	1.27	1.36	1.32	1.37	1.15	1.38	1.65	1.61	1.71
(WY)	1997	1997	1997	1997	1997	1997	1997	1997	1997	1995	1996	1996

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1995 - 1997	
ANNUAL TOTAL	588.6		539.0			
ANNUAL MEAN	1.61		1.48		1.60	
HIGHEST ANNUAL MEAN					1.72	1996
LOWEST ANNUAL MEAN					1.48	1997
HIGHEST DAILY MEAN	2.0	Mar 24	2.1	Sep 21	[a]2.2	Oct 10 1995
LOWEST DAILY MEAN	[b]1.3	Oct 23	[c]1.0	May 11	[c]1.0	May 11 1997
ANNUAL SEVEN-DAY MINIMUM	1.3	Oct 29	1.0	May 11	1.0	May 11 1997
INSTANTANEOUS PEAK FLOW			[d]2.6	Oct 2	2.9	May 29 1995
INSTANTANEOUS PEAK STAGE			[f].73	Oct 2	[g].78	May 29 1995
ANNUAL RUNOFF (AC-FT)	1170		1070		1160	
10 PERCENT EXCEEDS	1.8		1.9		1.9	
50 PERCENT EXCEEDS	1.6		1.4		1.6	
90 PERCENT EXCEEDS	1.4		1.2		1.3	

e-Estimated.
a-Also occurred Oct 11-16, 1995.
b-Also occurred Oct 24-27, Oct 29 to Nov 10, and Dec 24-31.
c-Also occurred May 12-18, 1997.
d-Also occurred Mar 13, and Sep 21.
f-Maximum gage height 0.78 ft, Mar 13 and Sep 21.
g-Also occurred Mar 13, and Sep 21, 1997.

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, 40,180 acre-ft, July 3-4, elevation, 8,148.06 ft; minimum contents, 6,410 acre-ft, Oct. 1, elevation, 8,063.62 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	8,063.54	6,400	-
Oct. 31	8,074.60	8.680	+2,280
Nov. 30	8,077.60	9,390	+710
Dec. 31	8,080.26	10,050	+660
CAL YR 1996	-	-	-9,230
Jan. 31	8,082.15	10,540	+490
Feb. 28	8,083.33	10,850	+310
Mar. 31	8,089.87	12,710	+1,860
Apr. 30	8,101.50	16,640	+3,930
May 31	8,129.65	29,520	+12,880
June 30	8,147.96	40,120	+10,600
July 31	8,141.14	35,990	-4,130
Aug. 31	8,141.63	36,280	+290
Sept. 30	8,134.78	32,340	-3,940
WTR YR 1997	-	-	+25,940

09363070 HIGHWAY SPRING NEAR LOMA LINDA, CO

LOCATION.--Lat 37°11'19", long 107°45'13", in NE¼SE¼ sec.18U, T.34 N., R.8 W., La Plata County, Hydrologic Unit 14080104, on right bank 80 ft downstream from Colorado Highway 172, 150 ft upstream from irrigation ditch and mouth, and 10 mi southeast of Durango.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--July 1995 to September 1997(discontinued). Water-quality data available June 1995 to May 1996.

GAGE.--Water-stage recorder. Elevation of gage is 6,680 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Florida Farmers Ditch diverts some project water from Florida River for irrigation of fields above the spring location. At times some return flow will enter the drainage upstream of the gage location. 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.19	.19	.21	.21	.12	.11	.25	.19	.40	2.4	.42	.82
2	.19	.19	.21	.21	.12	.13	.25	.19	.21	2.6	.42	.51
3	.34	.23	.20	.32	.11	.13	.25	.18	.14	2.6	.40	.55
4	.29	.20	.21	.23	.11	.13	.34	.17	.18	2.6	.49	.61
5	.22	.32	.20	.22	.11	.14	.30	.16	.15	2.5	.54	.43
6	.20	.68	.21	.22	.11	.15	.29	.16	.12	2.5	.48	.64
7	.19	.39	.19	.21	.11	.15	.26	.16	.18	2.0	.44	.60
8	.18	.42	.20	.21	.11	.16	.25	.16	.23	.81	.42	1.1
9	.16	.24	.20	.21	.11	.17	.25	.17	.22	.78	.41	.69
10	.16	.23	.27	.21	.11	.18	.25	.17	.23	.80	.50	.26
11	.16	.22	.28	.21	.12	.21	.23	.16	.23	.81	.44	.24
12	.16	.21	.24	.22	.14	.23	.21	.16	.23	.85	.39	.21
13	.16	.21	.23	.22	.13	.26	.21	.15	.25	.65	.67	.22
14	.16	.21	.22	.21	.11	.25	.21	.15	.24	.93	1.3	.20
15	.16	.24	.20	.21	.11	.24	.21	.15	.31	1.4	.93	.30
16	.16	.24	.21	.21	.11	.27	.21	.15	.36	1.7	.47	.26
17	.17	.22	.20	.21	.12	.25	.21	.15	.39	1.2	.44	.25
18	.19	.24	.19	.21	.15	.29	.20	.15	.48	1.0	.47	.26
19	.20	.24	.19	.21	.15	.37	.20	.35	.60	2.2	.42	.25
20	.20	.24	.19	.21	.14	.38	.19	.20	.58	2.6	.40	.30
21	.19	.23	.19	.20	.13	.32	.19	.79	1.0	2.5	.39	.86
22	.19	.28	.19	.19	.13	.28	.19	.82	.77	.94	.39	.53
23	.19	.26	.21	.15	.12	.26	.22	.76	.86	.42	.39	.37
24	.19	.23	.21	.04	.12	.25	.22	1.1	1.8	.42	.39	.34
25	.20	.22	.21	.05	.12	.24	.20	.92	2.3	.48	.39	.32
26	.20	.22	.21	.13	.11	.23	.19	.75	2.1	.39	.93	.30
27	.24	.23	.22	.13	.12	.24	.19	.61	2.0	.36	2.2	.28
28	.26	.21	.20	.13	.12	.24	.19	.79	2.1	.61	2.2	.26
29	.21	.24	.20	.13	---	.24	.19	.71	2.2	.48	.42	.24
30	.20	.23	.20	.14	---	.23	.19	.71	2.4	.61	.46	.23
31	.19	---	.21	.13	---	.23	---	.58	---	.49	.73	---
TOTAL	6.10	7.71	6.50	5.79	3.37	6.96	6.74	12.02	23.26	40.63	19.34	12.43
MEAN	.20	.26	.21	.19	.12	.22	.22	.39	.78	1.31	.62	.41
MAX	.34	.68	.28	.32	.15	.38	.34	1.1	2.4	2.6	2.2	1.1
MIN	.16	.19	.19	.04	.11	.11	.19	.15	.12	.36	.39	.20
AC-FT	12	15	13	11	6.7	14	13	24	46	81	38	25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1997, BY WATER YEAR (WY)

MEAN	.40	.26	.22	.20	.14	.19	.18	.31	.48	.79	.99	.59
MAX	.59	.27	.24	.22	.15	.22	.22	.39	.78	1.31	1.60	1.02
(WY)	1996	1996	1996	1996	1996	1997	1997	1997	1997	1997	1995	1995
MIN	.20	.26	.21	.19	.12	.15	.14	.23	.19	.27	.62	.33
(WY)	1997	1997	1997	1997	1997	1996	1996	1996	1996	1996	1997	1996

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR			FOR 1997 WATER YEAR			WATER YEARS 1995 - 1997		
ANNUAL TOTAL	94.38			150.85					
ANNUAL MEAN	.26			.41			.35		
HIGHEST ANNUAL MEAN							.41		1997
LOWEST ANNUAL MEAN							.29		1996
HIGHEST DAILY MEAN	1.3	Aug	7	[a]2.6	Jul	2	3.3	Aug 5	1995
LOWEST DAILY MEAN	.04	Feb	7	.04	Jan	24	[b].04	Feb 7	1996
ANNUAL SEVEN-DAY MINIMUM	.07	Feb	2	.11	Jan	24	.07	Feb 2	1996
INSTANTANEOUS PEAK FLOW				3.2	Jul	2	3.7	Aug 5	1995
INSTANTANEOUS PEAK STAGE				1.10	Jul	2	[c]1.08	Aug 5	1995
ANNUAL RUNOFF (AC-FT)	187			299			256		
10 PERCENT EXCEEDS	.44			.82			.95		
50 PERCENT EXCEEDS	.20			.23			.23		
90 PERCENT EXCEEDS	.13			.14			.14		

a-Also occurred Jul 3-4, and 20.
b-Also occurred Jan 24, 1997.
c-Maximum gage height, 1.10 ft, Jul 2, 1997.

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 sea level, 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	336	418	431	325	e360	e420	e1500	1600	6850	3230	2370	842
2	310	402	394	316	e365	e380	e1450	1550	7770	2900	1840	802
3	559	404	e280	391	e375	e360	e1400	1450	7120	2680	1930	743
4	1160	422	e290	461	e340	e350	e1500	1520	6810	2530	1860	681
5	878	392	e350	390	e360	e360	e1400	1880	7050	2360	2190	661
6	769	405	e400	371	e370	e370	e1380	2370	6570	2140	2580	641
7	735	397	421	e340	e370	e380	e1300	2760	5750	1840	2090	610
8	753	376	407	e320	e360	e400	e1100	2750	5440	1640	1710	575
9	749	369	392	e320	e340	e430	e1000	2570	4720	1520	1490	545
10	742	384	459	e330	e320	e480	e980	2490	4230	1500	1530	534
11	716	389	587	e350	e325	e570	e970	2470	4230	1540	2290	565
12	635	388	535	e360	e335	e660	e965	2790	4490	1470	1820	663
13	578	390	475	e365	e350	e740	e960	3330	4570	1500	1570	747
14	525	401	434	e350	e365	e1000	e940	3980	4210	1550	1410	738
15	492	430	410	e300	e360	e1020	e840	4380	4090	1520	1320	794
16	498	461	e350	e340	e350	e1020	761	4900	3990	1460	1190	1240
17	515	424	e300	e330	e360	e1110	853	5400	4130	1380	1080	1250
18	484	403	e250	e305	e375	e1110	990	5600	4680	1340	1010	1050
19	465	420	e200	e320	e390	e1110	1160	5460	4940	1430	955	962
20	466	443	e250	e360	e410	e1200	1400	5040	5210	1470	889	919
21	443	494	e290	e370	e420	e1500	1700	5270	5300	1440	834	2280
22	412	555	e310	e340	e425	e1900	1920	5400	5020	1440	786	4610
23	391	686	e320	e360	e410	e1900	1880	4650	4850	1570	783	3710
24	388	605	e300	e370	e390	e1900	1730	4330	4560	1600	776	2840
25	398	536	e300	e350	e415	e1700	1480	4180	3890	1450	770	2480
26	414	507	e320	e355	e400	e1500	1330	3860	3470	1300	844	2250
27	421	492	e340	e360	e390	e1600	1290	3500	3240	1300	961	1850
28	557	462	347	e350	e440	e1600	1430	3260	3050	1390	849	1600
29	499	458	332	e350	---	e1600	1660	3140	3090	1920	769	1380
30	448	502	315	e360	---	e1500	1640	3470	3210	2070	716	1260
31	429	---	324	e365	---	e1500	---	5280	---	3300	753	---
TOTAL	17165	13415	11113	10874	10470	31670	38909	110630	146530	55780	41965	39822
MEAN	554	447	358	351	374	1022	1297	3569	4884	1799	1354	1327
MAX	1160	686	587	461	440	1900	1920	5600	7770	3300	2580	4610
MIN	310	369	200	300	320	350	761	1450	3050	1300	716	534
AC-FT	34050	26610	22040	21570	20770	62820	77180	219400	290600	110600	83240	78990

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1997, BY WATER YEAR (WY)

MEAN	465	342	269	246	262	432	1088	2531	3047	1272	624	533
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1934 - 1997	
ANNUAL TOTAL	218295		528343			
ANNUAL MEAN	596		1448		935	
HIGHEST ANNUAL MEAN					1713	1941
LOWEST ANNUAL MEAN					340	1977
HIGHEST DAILY MEAN	3550	May 17	7770	Jun 2	11800	Jun 19 1949
LOWEST DAILY MEAN	130	Aug 17	e200	Dec 19	.00	Nov 1 1933
ANNUAL SEVEN-DAY MINIMUM	150	Aug 16	274	Dec 17	.00	Nov 1 1933
INSTANTANEOUS PEAK FLOW			8420	Jun 2	13100	Jun 19 1949
INSTANTANEOUS PEAK STAGE			10.03	Jun 2	11.45	Jun 19 1949
ANNUAL RUNOFF (AC-FT)	433000		1048000		677700	
10 PERCENT EXCEEDS	1270		4030		2440	
50 PERCENT EXCEEDS	397		794		410	
90 PERCENT EXCEEDS	223		349		210	

e-Estimated.

09365500 LA PLATA RIVER AT HESPERUS, CO

LOCATION.--Lat 37°17'23", long 108°02'24", in NE1/4SW1/4 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.

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	14	e16	8.4	9.6	e10	101	103	e450	85	88	29
2	15	14	15	8.4	e9.0	e9.0	90	94	420	76	87	23
3	47	14	e14	11	e9.0	e9.0	84	87	350	73	185	20
4	62	14	13	10	e9.0	e9.0	82	105	391	68	109	18
5	46	14	e13	e10	e8.5	e8.0	70	153	352	58	192	17
6	47	14	17	9.6	8.4	e8.0	62	183	277	49	124	16
7	50	14	16	e9.0	e8.5	e8.0	57	220	250	49	87	15
8	54	14	14	e9.0	e8.0	e8.0	54	236	229	40	67	13
9	56	14	14	e9.0	e8.0	e9.0	53	178	146	37	56	12
10	50	13	15	e9.0	e8.0	e10	49	160	135	34	84	12
11	45	13	16	e9.0	e8.0	e11	43	155	193	35	84	21
12	47	13	15	e9.0	e8.5	14	38	167	212	36	63	44
13	41	13	15	e9.0	e8.5	14	35	257	190	41	54	28
14	36	14	16	e7.0	e8.5	18	34	314	150	47	49	28
15	32	16	e15	e9.0	e8.5	24	37	311	124	53	44	41
16	30	18	e14	e8.0	e9.0	28	48	297	119	45	39	72
17	27	19	e14	e8.0	10	36	60	271	118	39	37	47
18	25	19	e15	e8.0	10	51	75	281	148	37	32	39
19	23	20	e12	e8.0	e11	65	101	312	204	37	30	32
20	19	20	e11	e8.0	e11	86	134	298	187	44	27	39
21	14	23	e11	e8.5	e11	120	160	301	153	37	25	198
22	13	28	e11	e8.5	e11	131	161	283	142	35	23	225
23	13	24	e11	e8.5	11	139	152	227	133	42	23	143
24	13	22	e9.0	e8.0	e12	135	128	226	115	31	21	97
25	13	21	e10	e7.5	e12	108	105	202	104	27	20	73
26	13	21	e10	e8.0	e11	94	91	156	92	24	35	60
27	14	21	e10	e8.5	e10	94	85	129	86	24	29	53
28	21	20	9.7	e8.5	e11	99	92	129	91	33	25	46
29	17	20	9.9	e8.0	---	108	105	149	91	54	22	40
30	15	18	10	e8.5	---	107	100	277	91	171	21	36
31	14	---	8.7	e8.5	---	109	---	e350	---	155	22	---
TOTAL	926	522	400.3	267.4	268.0	1679.0	2486	6611	5743	1616	1804	1537
MEAN	29.9	17.4	12.9	8.63	9.57	54.2	82.9	213	191	52.1	58.2	51.2
MAX	62	28	17	11	12	139	161	350	450	171	192	225
MIN	13	13	8.7	7.0	8.0	8.0	34	87	86	24	20	12
AC-FT	1840	1040	794	530	532	3330	4930	13110	11390	3210	3580	3050

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 1997, BY WATER YEAR (WY)

MEAN	15.4	10.7	8.26	7.04	7.45	15.6	82.8	172	135	38.8	23.7	20.5
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1918 - 1997	
ANNUAL TOTAL	8863.8		23859.7			
ANNUAL MEAN	24.2		65.4		44.9	
HIGHEST ANNUAL MEAN					90.5	1941
LOWEST ANNUAL MEAN					9.94	1977
HIGHEST DAILY MEAN	149	Apr 27	450	Jun 1	934	Jun 28 1927
LOWEST DAILY MEAN	e4.0	Jan 27	e7.0	Jan 14	1.0	Feb 22 1939
ANNUAL SEVEN-DAY MINIMUM	5.1	Jan 26	8.0	Jan 14	1.9	Oct 13 1917
INSTANTANEOUS PEAK FLOW			607	Jun 1	a1880	Sep 22 1941
INSTANTANEOUS PEAK STAGE			4.26	Jun 1	b4.30	Sep 22 1941
ANNUAL RUNOFF (AC-FT)	17580		47330		32510	
10 PERCENT EXCEEDS	51		174		128	
50 PERCENT EXCEEDS	15		31		13	
90 PERCENT EXCEEDS	6.0		9.0		5.2	

e-Estimated.
a-Present datum, from rating curve extended above 620 ft^3/s, on basis of slope-area measurement of peak flow.
b-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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	8.7	11	17	34	25	149	101	323	50	72	11
2	6.2	8.0	e10	17	32	27	136	95	378	47	55	7.2
3	22	8.1	e10	20	32	32	109	79	243	43	92	5.6
4	16	9.0	e10	23	29	29	147	73	212	41	73	5.2
5	9.5	8.3	e10	22	30	22	153	94	187	38	90	5.7
6	7.8	8.0	e10	23	32	26	136	125	146	30	63	5.9
7	7.3	7.6	11	22	26	28	138	155	135	26	48	5.4
8	7.1	6.9	10	e22	e24	28	156	172	153	25	45	4.8
9	7.1	7.0	10	e20	e22	31	187	133	119	22	39	3.9
10	6.7	6.9	13	23	e24	35	182	114	80	22	42	3.9
11	8.7	6.9	20	e22	e20	38	134	93	66	22	60	3.4
12	15	6.9	15	30	e22	45	109	83	78	20	34	4.2
13	19	6.7	13	26	e24	54	92	103	93	19	28	12
14	16	6.8	12	26	26	77	81	171	75	22	24	16
15	15	7.4	e12	e24	27	91	76	212	76	30	22	17
16	15	8.2	e12	e20	27	98	75	238	77	28	19	52
17	16	7.8	e12	e18	28	117	82	233	60	26	18	22
18	15	7.4	e10	e16	27	148	87	264	48	24	17	15
19	15	7.4	e10	e16	28	176	112	269	73	24	14	13
20	14	7.4	e10	e18	29	214	143	209	81	29	12	13
21	12	8.0	e12	e22	27	312	172	194	62	23	9.0	83
22	11	8.6	e12	e20	26	358	201	211	74	19	6.1	247
23	10	9.4	e10	e22	30	370	186	169	91	19	5.5	118
24	11	8.4	e10	e24	29	355	198	133	81	19	5.6	61
25	9.6	8.6	e10	e24	31	262	163	142	67	14	6.9	31
26	9.0	8.9	e12	e26	27	227	129	113	53	12	8.2	36
27	10	9.7	e14	28	30	230	106	85	60	9.6	5.5	30
28	14	10	e16	26	30	225	96	68	62	10	5.8	25
29	18	13	17	31	---	229	105	54	57	18	6.3	21
30	12	13	17	30	---	200	101	67	52	44	7.0	16
31	9.8	---	17	32	---	185	---	233	---	90	8.2	---
TOTAL	370.8	249.0	378	710	773	4294	3941	4485	3362	865.6	941.1	894.2
MEAN	12.0	8.30	12.2	22.9	27.6	139	131	145	112	27.9	30.4	29.8
MAX	22	13	20	32	34	370	201	269	378	90	92	247
MIN	6.0	6.7	10	16	20	22	75	54	48	9.6	5.5	3.4
AC-FT	735	494	750	1410	1530	8520	7820	8900	6670	1720	1870	1770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1997, BY WATER YEAR (WY)

MEAN	13.8	11.9	12.2	11.8	17.1	37.6	108	111	67.8	20.4	12.1	11.4
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1921 - 1997	
ANNUAL TOTAL	5125.68		21263.7			
ANNUAL MEAN	14.0		58.3		36.2	
HIGHEST ANNUAL MEAN					109	1973
LOWEST ANNUAL MEAN					4.44	1977
HIGHEST DAILY MEAN	76	May 9	378	Jun 2	1120	May 4 1941
LOWEST DAILY MEAN	.98	Jul 16	3.4	Sep 11	[a].00	Jul 3 1922
ANNUAL SEVEN-DAY MINIMUM	1.7	Jul 13	4.5	Sep 6	.00	Jul 3 1922
INSTANTANEOUS PEAK FLOW			475	Jun 2	[b]4750	Aug 24 1927
INSTANTANEOUS PEAK STAGE			5.46	Jun 2	11.36	Aug 24 1927
ANNUAL RUNOFF (AC-FT)	10170		42180		26240	
10 PERCENT EXCEEDS	25		170		87	
50 PERCENT EXCEEDS	10		26		12	
90 PERCENT EXCEEDS	3.1		7.5		1.7	

e-Estimated.
a-No flow at times in many years.
b-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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	29	24	e16	25	24	125	155	384	40	56	28
2	9.5	26	14	e18	23	22	121	156	420	34	32	46
3	175	24	e14	25	26	23	106	134	369	25	36	33
4	423	28	e15	119	21	24	162	139	315	21	70	28
5	143	30	e17	51	21	25	219	166	291	18	119	25
6	82	27	21	34	28	22	166	214	269	16	130	24
7	62	26	23	23	19	22	176	309	233	15	71	23
8	52	24	18	20	17	26	216	337	279	16	55	21
9	46	21	20	e17	17	39	237	292	264	14	42	18
10	42	22	28	e14	20	61	253	294	206	6.9	52	e16
11	37	22	43	e13	21	103	170	256	184	1.1	125	e17
12	36	21	81	e13	22	146	126	226	186	.81	76	e21
13	33	21	58	e14	25	193	103	251	196	.39	64	e25
14	31	21	45	e15	20	217	92	326	183	e.32	57	e27
15	28	22	31	16	19	192	87	377	170	e.30	45	e26
16	25	26	19	15	23	178	103	373	157	e.27	37	e210
17	23	32	e17	e10	24	210	131	356	142	e.26	36	e100
18	22	25	e16	e11	26	204	152	368	132	e.29	33	e70
19	21	28	e12	e12	28	199	170	387	135	e.25	31	e60
20	21	33	e6.0	e13	37	225	191	359	147	e.21	28	62
21	21	33	e7.0	e14	44	291	210	399	140	e.20	26	364
22	21	31	e17	e16	37	283	209	551	130	2.4	24	358
23	18	44	e15	e17	32	270	201	519	126	10	20	124
24	18	56	e14	e17	30	252	210	418	118	.92	18	87
25	18	39	e13	e16	28	179	196	414	106	e.32	20	70
26	18	32	e10	e18	27	129	169	386	92	e.30	21	64
27	20	28	e12	23	25	117	157	303	78	e.23	47	61
28	48	25	e14	28	27	117	161	252	66	e.23	41	58
29	81	24	e13	24	---	123	184	226	60	e.22	35	55
30	44	26	e12	27	---	119	172	225	52	31	30	52
31	34	---	e14	27	---	117	---	321	---	118	26	---
TOTAL	1662.0	846	663.0	696	712	4152	4975	9489	5630	373.92	1503	2173
MEAN	53.6	28.2	21.4	22.5	25.4	134	166	306	188	12.1	48.5	72.4
MAX	423	56	81	119	44	291	253	551	420	118	130	364
MIN	9.5	21	6.0	10	17	22	87	134	52	.20	18	16
AC-FT	3300	1680	1320	1380	1410	8240	9870	18820	11170	742	2980	4310

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1997, BY WATER YEAR (WY)

MEAN	26.8	19.6	14.5	13.6	25.9	59.9	127	179	87.2	29.1	28.9	26.7
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1921 - 1997	
ANNUAL TOTAL	5727.40		32874.92			
ANNUAL MEAN	15.6		90.1		52.4	
HIGHEST ANNUAL MEAN					138	1973
LOWEST ANNUAL MEAN					4.28	1959
HIGHEST DAILY MEAN	423	Oct 4	551	May 22	3050	Oct 14 1941
LOWEST DAILY MEAN	e,a .00	May 18	e .20	Jul 21	b .00	Jul 12 1922
ANNUAL SEVEN-DAY MINIMUM	.00	May 18	.25	Jul 15	.00	Jul 12 1922
INSTANTANEOUS PEAK FLOW			889	Sep 22	c 5300	Oct 14 1941
INSTANTANEOUS PEAK STAGE			4.92	Sep 22	d 7.30	Oct 14 1941
ANNUAL RUNOFF (AC-FT)	11360		65210		37960	
10 PERCENT EXCEEDS	31		252		147	
50 PERCENT EXCEEDS	11		33		16	
90 PERCENT EXCEEDS	.00		14		.10	

e-Estimated.
a-Also occurred May 19 to Jun 25, and Sep 6-11.
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", SE1/4NE1/4 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 sea level, 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e750	1380	877	666	e880	e710	3260	2420	9710	5510	5110	e1780
2	e720	1300	802	661	e850	e700	3210	2320	10800	5240	3390	e3750
3	e1320	1210	723	668	e840	e690	3110	2170	11700	4600	3110	e3150
4	e2200	1210	723	e680	e830	e700	3530	1940	11900	4370	3390	e1210
5	e2700	1220	701	e690	e800	e740	4410	1980	11200	4250	4990	e1180
6	e1600	1030	e720	e690	758	e780	3410	2380	11200	4090	4830	e1100
7	e1500	822	e720	e690	705	825	3130	3050	10400	4030	4830	e1080
8	e1400	792	e720	e645	673	845	3090	3500	10500	3610	3100	e1040
9	e1300	752	e720	e650	631	883	3050	3340	10200	3160	2500	e950
10	e1200	727	e710	637	605	997	2940	3060	9170	3060	2410	e910
11	e1200	725	e700	644	606	1130	2500	2880	8350	2860	2430	e900
12	e1180	730	e700	e650	628	1340	1940	2780	8190	2770	2890	1770
13	e1100	722	e700	e660	631	1680	1560	3350	8610	2620	2420	1570
14	e1050	762	e690	e680	631	1980	1440	4660	8500	2600	2070	1590
15	e1040	756	e680	e700	625	2040	1380	5850	8100	2480	1840	1830
16	e980	785	e660	713	603	2040	1360	6660	8070	1950	1630	2580
17	e1020	855	e650	e750	604	2430	1380	8090	7630	1820	e1600	2220
18	1010	804	e650	808	628	2350	1480	8730	7550	1690	e1500	1870
19	1010	778	e640	823	617	2880	1630	8880	7880	1620	e1400	1580
20	973	762	e610	e830	674	3360	1870	9200	8020	1800	e1250	1470
21	1010	767	e640	e840	788	3810	2230	9280	8210	1790	e1200	3800
22	980	761	e660	e860	788	4280	2600	e10400	8210	1820	e1150	7290
23	985	781	e680	e860	732	4180	2910	e11000	7920	1880	e900	5820
24	980	965	e700	867	694	4080	3140	e10000	7480	1930	e890	4130
25	958	898	e700	885	671	3980	3130	e8900	6930	1900	e860	3450
26	950	831	e710	859	646	3550	2760	e8260	6280	1770	e840	3180
27	1070	826	e730	e1100	634	3330	2350	e8100	5780	1640	e1810	2910
28	1690	836	706	e1200	696	3340	2180	8180	5600	1560	e1900	2540
29	2440	821	711	e1100	---	3380	2280	8030	5420	2630	e1800	2210
30	1680	827	698	e1000	---	3420	2470	7950	5460	3070	e1760	1960
31	1480	---	684	e920	---	3330	---	8340	---	5750	e1690	---
TOTAL	39476	26435	21715	24426	19468	69780	75730	185680	254970	89870	71490	70820
MEAN	1273	881	700	788	695	2251	2524	5990	8499	2899	2306	2361
MAX	2700	1380	877	1200	880	4280	4410	11000	11900	5750	5110	7290
MIN	720	722	610	637	603	690	1360	1940	5420	1560	840	900
AC-FT	78300	52430	43070	48450	38610	138400	150200	368300	505700	178300	141800	140500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1997, BY WATER YEAR (WY)

MEAN	1273	1391	1424	1509	1618	2190	3115	4793	5473	2539	1408	1379
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1978 - 1997	
ANNUAL TOTAL	397370		949860			
ANNUAL MEAN	1086		2602		2343	
HIGHEST ANNUAL MEAN					4180	1987
LOWEST ANNUAL MEAN					991	1990
HIGHEST DAILY MEAN	3540	May 18	11900	Jun 4	16400	May 29 1979
LOWEST DAILY MEAN	e180	Aug 17	603	Feb 16	110	Aug 17 1978
ANNUAL SEVEN-DAY MINIMUM	190	Aug 15	618	Feb 11	126	Aug 14 1978
INSTANTANEOUS PEAK FLOW			12600	Jun 4	16900	May 29 1979
INSTANTANEOUS PEAK STAGE			5.79	Jun 4	a6.25	May 29 1979
ANNUAL RUNOFF (AC-FT)	788200		1884000		1697000	
10 PERCENT EXCEEDS	2530		7730		5650	
50 PERCENT EXCEEDS	838		1570		1480	
90 PERCENT EXCEEDS	397		682		708	

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 SW1/4SW1/4 sec.6, T.35 N., R.16 W., Montezuma County, Hydrologic Unit 14080202, on left bank 1 mi upstream from mouth and 4.5 mi southwest of Cortez.

DRAINAGE AREA.--33.6 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 good except for estimated daily discharges, which are poor. Some small diversions upstream from station for irrigation. Most of flow is from diversion of water from Dolores River through Dolores Project and Montezuma Valley Irrigation Company.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	1.7	e2.0	e2.8	6.4	2.8	1.5	1.7	11	11	17	19
2	4.8	1.6	e1.7	3.0	4.8	2.3	1.4	1.8	13	11	15	18
3	60	1.9	e1.6	7.4	5.4	2.7	1.5	1.5	14	11	14	16
4	29	2.4	1.6	4.8	3.8	2.4	11	1.5	16	12	15	16
5	15	1.9	1.7	2.8	3.4	1.7	11	1.4	16	14	21	16
6	6.4	1.8	e1.9	e2.6	3.6	1.6	5.2	1.4	15	12	19	15
7	7.1	1.6	e2.0	e2.4	3.0	1.8	3.1	1.4	18	11	16	15
8	5.9	1.6	e2.0	e2.1	2.8	1.8	2.3	1.5	23	12	15	13
9	5.4	1.6	e2.5	2.1	2.7	1.8	2.0	2.5	18	14	14	13
10	5.2	1.7	9.6	2.2	2.5	2.3	1.7	6.8	16	14	16	13
11	4.2	1.7	11	2.3	2.6	2.5	1.4	9.5	14	15	20	14
12	3.9	1.6	3.9	e2.3	2.7	2.4	1.3	9.3	13	14	18	17
13	3.6	1.6	2.8	e2.1	2.9	2.5	1.3	9.0	13	14	16	15
14	1.9	1.8	2.6	e1.8	2.4	2.4	5.0	6.6	14	14	15	14
15	1.9	2.1	e1.9	e1.8	2.1	2.1	9.6	9.8	14	14	15	16
16	1.8	3.3	e1.8	e1.9	2.2	2.1	9.7	12	14	13	13	24
17	1.8	2.3	1.6	e1.6	2.6	2.3	10	13	14	14	12	18
18	1.6	2.2	1.3	e.90	2.9	2.0	10	13	12	15	11	15
19	2.4	2.3	1.3	.63	2.8	1.8	7.7	12	15	15	11	14
20	2.5	2.1	1.6	.65	2.5	1.7	9.3	15	14	16	11	14
21	2.3	1.9	e2.0	1.0	2.1	1.6	4.3	19	14	17	10	16
22	2.3	2.8	e2.0	1.1	1.8	1.4	1.3	23	15	16	11	18
23	2.2	3.8	e1.6	e2.2	2.0	1.4	1.6	23	16	18	12	10
24	2.2	2.3	e1.7	e2.4	1.9	1.4	5.7	13	15	16	12	9.7
25	2.4	2.0	2.0	2.6	2.3	1.3	4.7	17	14	15	11	8.8
26	2.2	2.0	e2.1	5.9	2.4	1.2	2.2	17	13	15	14	8.5
27	2.8	2.0	2.1	22	2.3	1.2	1.7	13	13	16	17	9.1
28	6.3	1.9	e2.3	13	3.4	1.3	1.8	12	14	17	16	11
29	5.0	2.6	e2.4	8.4	---	1.2	1.6	11	14	19	15	12
30	2.4	e2.7	e2.4	6.9	---	.93	1.6	11	12	17	14	12
31	2.0	---	e2.6	5.9	---	1.2	---	13	---	19	14	---
TOTAL	202.1	62.8	79.6	119.58	82.3	57.13	132.5	302.7	437	451	450	430.1
MEAN	6.52	2.09	2.57	3.86	2.94	1.84	4.42	9.76	14.6	14.5	14.5	14.3
MAX	60	3.8	11	22	6.4	2.8	11	23	23	19	21	24
MIN	1.6	1.6	1.3	.63	1.8	.93	1.3	1.4	11	11	10	8.5
AC-FT	401	125	158	237	163	113	263	600	867	895	893	853

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1997, BY WATER YEAR (WY)

MEAN	8.56	3.71	3.32	2.73	3.42	4.15	3.71	10.1	14.3	15.2	15.8	12.9
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	1.82	1.76	1.61	1.99	1.59	1.66	7.48	10.5	12.3	11.8	9.53
(WY)	1996	1996	1996	1982	1995	1996	1996	1986	1994	1994	1995	1995

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1982 - 1997	
ANNUAL TOTAL	2507.4		2806.81			
ANNUAL MEAN	6.85		7.69		8.25	
HIGHEST ANNUAL MEAN					9.47	1985
LOWEST ANNUAL MEAN					6.63	1996
HIGHEST DAILY MEAN	60	Oct 3	60	Oct 3	75	Mar 6 1995
LOWEST DAILY MEAN	1.1	Apr 6	.63	Jan 19	.63	Jan 19 1997
ANNUAL SEVEN-DAY MINIMUM	1.2	Apr 4	1.1	Jan 16	1.1	Jan 16 1997
INSTANTANEOUS PEAK FLOW			133	Oct 3	a598	Aug 24 1982
INSTANTANEOUS PEAK STAGE			4.07	Oct 3	8.53	Aug 24 1982
ANNUAL RUNOFF (AC-FT)	4970		5570		5980	
10 PERCENT EXCEEDS	15		16		17	
50 PERCENT EXCEEDS	2.7		4.2		5.9	
90 PERCENT EXCEEDS	1.5		1.6		1.9	

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 excellent, July 9-31; good, Oct. 31 to Dec. 20, Feb. 19 to Mar. 11, July 31 to Aug. 8, and Aug. 15 to Sept. 30; fair, Dec. 20 to Jan. 20, Jan. 28 to Feb. 19, Mar. 11 to Apr. 16, Apr. 24 to May 14, and Aug. 8 15; and poor, Oct. 1-31, and May 14 to July 9. Daily records of water temperature are good. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 9,760 microsiemens, Apr. 4, 1997; minimum, 1,000 microsiemens, July 17, 1996.
WATER TEMPERATURE: Maximum, 25.6°C, July 6, 1996; minimum, -0.5°C, Dec. 2, 1995.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 9,760 microsiemens, Apr. 4; minimum recorded, 1,240 microsiemens, Oct. 3.
WATER TEMPERATURE: Maximum, 23.5°C, June 1; minimum, -0.3°C, Jan. 1 and Feb. 7.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
OCT										
31...	1045	2.1	4980	8.2	5.0	2500	400	360	490	4
DEC										
20...	1035	1.5	5760	8.2	0.0	2800	450	400	580	5
JAN										
23...	1055	2.4	5030	8.1	0.0	2500	400	360	490	4
MAR										
11...	1025	2.7	3800	8.2	2.5	1700	290	240	350	4
MAY										
14...	1240	6.2	2750	8.1	16.0	1300	260	160	190	2
30...	1420	10	2170	8.1	20.5	1100	250	120	130	2
JUL										
09...	1225	14	1870	8.3	19.0	990	240	93	89	1
16...	1410	12	1850	8.2	21.0	940	220	93	93	1
31...	1305	19	1810	8.2	19.0	910	210	91	87	1
AUG										
08...	1350	14	1820	8.2	20.0	930	230	88	86	1
15...	1320	15	1810	8.1	18.5	910	220	87	83	1
28...	0830	15	1740	8.4	17.5	850	200	85	82	1

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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									
31...	8.8	365	3000	84	0.5	11	4570	6.22	25.7
DEC									
20...	7.0	431	3500	94	0.5	12	5300	7.21	21.3
JAN									
23...	5.8	391	3000	83	0.6	11	4580	6.24	29.2
MAR									
11...	7.1	304	2100	62	0.4	7.3	3240	4.41	23.5
MAY									
14...	4.7	247	1400	35	0.4	7.6	2210	3.00	37.0
30...	4.9	247	1000	24	0.4	11	1710	2.33	47.6
JUL									
09...	3.7	231	830	17	0.4	8.7	1430	1.94	53.9
16...	3.9	226	830	18	0.3	8.9	1400	1.91	46.3
31...	5.1	241	810	19	0.3	12	1380	1.88	72.4
AUG									
08...	4.6	239	800	17	0.4	11	1370	1.87	51.9
15...	4.0	234	800	17	0.3	12	1360	1.85	55.9
28...	4.0	221	770	16	0.4	10	1300	1.77	53.3

09371492 MUD CREEK AT HIGHWAY 32, NEAR CORTEZ, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	2120	2020	2060	5110	5070	5090	8110	5390	6310	7200	5290	5960
2	2290	2120	2230	5110	5030	5070	5570	5320	5440	6010	5270	5600
3	2300	1240	1890	5150	5060	5090	5660	5330	5540	7680	4760	5910
4	2370	2000	2270	6290	5040	5490	5510	5290	5400	5060	4600	4800
5	2600	2240	2400	5200	5020	5130	5440	5260	5370	5180	4890	5030
6	2970	2600	2860	5200	5130	5160	5260	5040	5170	5580	5020	5280
7	2790	2490	2590	5150	5100	5130	7200	5060	5910	6290	5170	5570
8	2870	2530	2760	5160	5080	5120	6130	5390	5760	5550	5280	5400
9	3060	2760	2930	5150	5090	5110	6090	5420	5770	5470	5230	5380
10	3100	2850	2960	5130	5060	5100	8050	4490	5630	5320	5140	5240
11	3430	3100	3300	5170	5080	5110	5900	4380	4750	5230	5110	5180
12	3610	3320	3490	5170	5080	5100	5310	4780	5070	5260	5080	5140
13	3870	3540	3610	5140	5080	5100	5360	5290	5300	5740	5150	5520
14	4710	3870	4380	5190	5120	5150	5400	5260	5330	5550	5320	5460
15	4860	4710	4790	5400	5110	5180	5400	5250	5330	5740	5330	5540
16	4920	4740	4850	7320	5400	6500	5340	5190	5300	5680	5470	5570
17	4860	4670	4790	7410	5310	5910	5610	5170	5380	5690	5470	5570
18	5090	4690	4900	5630	5380	5520	5960	5540	5740	5530	5150	5400
19	4970	4270	4490	5490	5240	5360	5940	5750	5850	5230	4330	4840
20	4300	4140	4200	5310	5270	5300	5840	5510	5690	---	---	---
21	4380	4110	4200	5310	5230	5270	5510	5190	5340	---	---	---
22	4330	4100	4160	8460	5170	5560	5190	5010	5110	---	---	---
23	4540	4110	4390	8710	5560	6490	5010	4870	4940	---	---	---
24	4600	4530	4580	5560	5290	5360	5320	4990	5160	---	---	---
25	4660	4600	4620	5350	5280	5300	5250	5130	5180	---	---	---
26	4760	4570	4690	5330	5220	5260	5210	5030	5130	---	---	---
27	4740	4480	4550	5340	5250	5310	5050	4950	5020	---	---	---
28	5130	3990	4810	5300	5200	5250	5720	4960	5150	---	---	---
29	4860	3990	4170	5480	4960	5160	6670	5210	5720	4940	3600	4450
30	4790	4250	4500	6910	5480	6320	6020	5320	5670	4880	4060	4610
31	5120	4790	4960	---	---	---	5890	5430	5660	5330	4020	4820
MONTH	5130	1240	3790	8710	4960	5370	8110	4380	5420	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	5450	3910	4740	9240	5880	6780	5550	5370	5460	5470	5300	5360
2	4830	4410	4540	6350	5560	5970	5490	5370	5440	5540	5180	5320
3	5860	4620	5230	6440	5460	5790	5430	4830	5350	5270	5120	5160
4	5370	4870	4990	6520	5380	5590	9760	5070	7130	5440	5200	5310
5	5340	4930	5150	5660	5320	5510	5150	4360	4740	5340	5220	5280
6	5790	5140	5370	5640	5390	5490	---	---	---	5410	5280	5350
7	7130	5210	5970	5540	5410	5470	---	---	---	5660	5370	5450
8	5740	5170	5400	5540	5410	5450	---	---	---	5470	5180	5350
9	5580	5170	5330	5640	4950	5300	---	---	---	5970	2950	5170
10	5710	5200	5430	5110	4180	4690	---	---	---	2950	2620	2750
11	5580	5210	5380	4960	3850	4490	---	---	---	2800	2370	2480
12	5960	5160	5530	4970	4160	4600	---	---	---	2500	2280	2420
13	6000	5260	5650	4930	3920	4480	---	---	---	2420	2210	2310
14	6210	5290	5720	4850	3880	4400	---	---	---	2780	2420	2600
15	5400	5150	5260	4810	4550	4670	---	---	---	2680	2260	2420
16	5330	5140	5240	4860	4580	4690	---	---	---	2390	2100	2260
17	5310	5230	5270	4800	4210	4500	---	---	---	2280	2120	2190
18	5400	5200	5310	4680	4380	4520	---	---	---	2170	2060	2120
19	5210	4820	4980	4760	4450	4620	---	---	---	2270	2080	2190
20	4910	4810	4860	4900	4700	4800	---	---	---	2270	2150	2220
21	5190	4850	4970	5110	4890	4990	---	---	---	2270	2080	2180
22	5350	4820	5120	5280	5050	5170	---	---	---	2360	2140	2260
23	5390	5120	5220	5400	5250	5320	---	---	---	2140	1950	2010
24	5420	5340	5370	5410	5330	5380	---	---	---	2260	1940	2100
25	5930	5360	5520	5410	5340	5370	6310	5370	5510	2140	1880	1990
26	6090	5550	5810	5450	5320	5390	5390	5260	5310	1980	1800	1860
27	5690	5480	5560	5620	5400	5470	5480	5200	5260	2120	1810	1960
28	9690	5670	6720	5430	5360	5400	5510	5290	5380	2060	1900	1980
29	---	---	---	5430	5340	5390	5330	5260	5290	2000	1930	1970
30	---	---	---	5590	5350	5430	5370	5280	5310	2050	1890	2000
31	---	---	---	5590	5370	5460	---	---	---	1900	1670	1790
MONTH	9690	3910	5340	9240	3850	5180	---	---	---	5970	1670	3090

09371492 MUD CREEK AT HIGHWAY 32, NEAR CORTEZ, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	1960	1650	1780	1920	1860	1890	1800	1710	1760	1890	1750	1810
2	1820	1680	1750	1910	1870	1890	1800	1760	1780	1780	1720	1750
3	1680	1650	1670	1950	1820	1890	1910	1750	1780	1800	1710	1750
4	1670	1630	1650	1870	1790	1830	1800	1310	1730	1790	1710	1740
5	1710	1630	1670	1830	1760	1790	2100	1550	1860	1740	1640	1690
6	1740	1650	1700	1900	1760	1820	1830	1770	1800	1710	1600	1670
7	1690	1630	1660	1960	1840	1890	1850	1760	1810	1870	1690	1750
8	1720	1620	1660	1890	1840	1860	1810	1730	1770	1890	1820	1860
9	1690	1660	1670	1920	1710	1810	1850	1700	1770	1880	1780	1840
10	1710	1680	1690	1790	1690	1740	1830	1450	1720	1820	1780	1800
11	1890	1700	1780	1800	1610	1710	1730	1530	1660	1870	1750	1820
12	1860	1760	1810	1890	1620	1710	1770	1660	1710	1890	1720	1800
13	1790	1750	1770	1810	1600	1680	1800	1670	1720	1790	1720	1760
14	1770	1730	1750	1850	1600	1730	1770	1680	1710	1830	1760	1790
15	1880	1730	1810	1800	1620	1730	1860	1690	1770	1890	1740	1800
16	1940	1830	1900	1850	1710	1770	1930	1790	1850	2210	1760	1910
17	1830	1780	1810	1880	1700	1770	1940	1790	1850	1870	1780	1830
18	1860	1810	1830	1760	1650	1710	1940	1790	1860	1960	1870	1920
19	1820	1770	1780	1730	1650	1690	2010	1800	1890	1970	1940	1950
20	1840	1730	1800	1700	1620	1650	1970	1800	1880	1980	1950	1960
21	1820	1730	1790	1710	1630	1680	1980	1810	1880	2090	1850	1960
22	1830	1750	1800	1730	1650	1700	1960	1760	1860	1950	1650	1810
23	1760	1690	1740	1800	1650	1720	1900	1760	1830	2160	1910	2010
24	1800	1690	1740	1730	1650	1690	1910	1770	1830	2230	2110	2150
25	1860	1770	1830	1780	1650	1720	1990	1810	1870	2290	2190	2240
26	1880	1810	1850	1920	1650	1720	1870	1720	1790	2270	2240	2250
27	1850	1780	1830	1820	1640	1720	1750	1670	1720	2340	2040	2260
28	1820	1740	1790	1820	1640	1710	1790	1670	1710	2120	2030	2080
29	1770	1730	1760	1830	1720	1770	1780	1670	1710	2080	1980	2030
30	1870	1760	1810	1800	1750	1780	1820	1670	1740	2060	1940	2020
31	---	---	---	1810	1760	1790	1800	1690	1740	---	---	---
MONTH	1960	1620	1760	1960	1600	1760	2100	1310	1790	2340	1600	1900

TEMPERATURE, WATER (DEG.C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.5	9.1	11.9	5.7	2.7	4.2	.1	-.2	-.1	1.7	-.3	.6
2	14.9	9.8	12.3	5.6	2.0	3.9	.4	-.2	.0	2.7	.2	1.4
3	13.0	9.8	11.1	6.0	4.4	5.2	.1	-.2	-.1	2.5	1.1	1.9
4	12.9	10.0	11.1	7.8	5.1	6.3	.1	-.2	-.1	1.6	.0	.8
5	14.4	10.6	12.4	6.6	4.0	5.4	.1	-.2	-.1	1.4	.1	.7
6	15.9	10.4	12.9	6.3	4.0	5.0	.5	-.1	.2	1.0	-.2	.4
7	15.4	10.4	12.7	4.1	1.5	2.9	.9	-.2	.2	-.1	-.2	-.2
8	15.4	10.1	12.5	3.9	.5	2.3	1.1	-.2	.2	.0	-.2	-.1
9	15.5	9.9	12.5	4.4	1.1	2.8	1.5	-.2	.4	.0	-.2	-.2
10	15.3	9.8	12.3	4.3	.9	2.6	2.1	.1	.9	.0	-.2	-.1
11	15.0	9.3	12.0	3.8	.3	2.2	4.0	2.1	3.0	.1	-.2	-.1
12	14.6	9.1	11.8	3.8	.3	2.2	4.6	2.6	3.5	.7	.0	.3
13	13.9	8.5	11.2	4.5	1.3	3.0	3.4	1.2	2.6	.4	.1	.2
14	13.0	9.8	11.4	5.2	2.5	4.0	3.2	.5	1.7	.2	-.2	-.1
15	11.8	7.9	10.1	5.2	3.6	4.5	.5	-.2	.0	-.1	-.2	-.2
16	10.8	7.5	9.2	4.0	2.7	3.3	1.5	-.2	.5	-.1	-.2	-.2
17	9.5	7.1	8.3	2.7	1.4	2.0	.3	-.2	-.1	-.1	-.2	-.2
18	8.6	3.9	6.5	4.5	2.1	3.2	.0	-.2	-.2	.0	-.2	-.2
19	9.5	5.9	7.9	4.8	2.0	3.5	.0	-.2	-.2	---	---	---
20	9.2	7.0	7.9	5.7	2.9	4.1	.0	-.2	-.2	---	---	---
21	7.1	3.7	5.1	6.2	2.4	4.3	-.1	-.2	-.2	---	---	---
22	4.8	1.3	3.4	6.7	5.7	6.4	.0	-.2	-.1	---	---	---
23	5.7	1.5	3.8	6.2	4.6	5.4	.1	-.2	-.1	---	---	---
24	6.2	1.8	4.1	4.6	2.4	3.5	-.1	-.2	-.2	---	---	---
25	6.2	4.7	5.6	4.2	1.8	3.1	-.1	-.2	-.2	---	---	---
26	4.7	2.4	3.8	3.4	1.8	2.8	-.1	-.2	-.1	---	---	---
27	6.0	3.9	4.8	3.8	2.2	3.0	.2	-.1	.0	.2	-.2	-.1
28	6.8	5.0	6.2	2.9	.5	1.9	.7	.0	.3	.5	-.2	.0
29	5.6	3.9	4.8	2.3	.9	1.7	1.1	-.2	.4	1.5	-.2	.3
30	6.4	3.0	4.8	1.8	.1	1.1	1.3	-.2	.5	1.5	-.2	.4
31	6.4	4.0	5.2	---	---	---	1.8	.2	.7	2.6	-.2	1.0
MONTH	15.9	1.3	8.7	7.8	.1	3.5	4.6	-.2	.4	---	---	---

09371492 MUD CREEK AT HIGHWAY 32, NEAR CORTEZ, CO--Continued

TEMPERATURE, WATER (DEG.C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.5	.2	1.7	3.9	-.2	1.8	12.1	6.7	9.3	14.1	8.8	11.3
2	2.6	.2	1.4	4.3	-.2	2.1	10.8	6.6	8.9	14.5	6.0	10.2
3	3.9	.4	2.0	5.4	.5	3.3	12.1	7.2	9.7	16.1	6.3	11.2
4	2.9	-.2	1.5	4.5	1.2	3.0	9.6	3.4	5.9	17.0	8.2	12.8
5	3.4	.0	1.8	4.4	-.2	2.0	8.1	1.4	4.6	17.8	9.6	13.8
6	2.8	.8	1.6	5.2	-.1	2.5	8.7	1.8	5.2	19.2	10.9	15.0
7	1.5	-.3	.4	6.3	.6	3.6	9.6	3.4	6.5	19.8	11.6	15.7
8	2.2	-.2	.6	7.0	1.1	4.3	9.7	3.9	7.0	16.3	11.7	14.2
9	2.6	-.2	1.0	7.1	1.5	4.6	11.3	6.2	8.8	17.7	10.0	13.8
10	2.9	-.2	1.2	7.9	1.7	5.1	10.8	5.6	8.2	19.3	10.5	14.6
11	3.9	.3	2.1	8.4	1.5	5.4	10.9	4.4	7.5	18.7	11.2	14.7
12	3.5	.2	2.1	9.1	2.9	6.3	7.3	3.1	5.2	19.0	12.7	15.7
13	3.6	.7	2.3	8.8	2.9	6.2	9.6	1.5	5.4	20.0	12.0	15.8
14	3.3	-.2	1.5	8.9	2.5	5.9	10.6	2.5	6.6	19.3	11.6	15.5
15	4.0	-.1	2.0	8.8	2.8	6.1	12.4	4.3	8.4	19.5	12.7	16.2
16	4.4	.3	2.6	9.8	3.7	7.0	14.5	5.5	10.0	20.2	13.4	16.9
17	4.3	1.9	3.3	10.4	5.5	8.0	13.4	6.4	10.3	21.0	13.7	17.3
18	6.0	2.7	4.3	10.1	3.7	7.2	15.5	6.5	11.0	20.5	14.9	17.8
19	5.5	1.2	3.7	10.9	3.7	7.7	15.5	7.4	11.5	18.2	14.2	16.5
20	4.5	1.1	3.0	11.7	4.9	8.6	14.4	7.9	11.3	18.6	14.0	16.4
21	3.5	-.1	1.8	11.4	5.0	8.5	14.0	8.3	11.4	16.8	13.8	14.8
22	2.6	-.2	1.2	12.1	5.6	9.0	15.4	7.5	11.4	17.8	13.2	15.2
23	3.0	.6	1.9	12.3	5.7	9.3	11.6	7.9	9.1	17.4	13.2	15.5
24	3.0	.6	1.9	10.0	5.2	7.2	8.3	3.6	6.3	16.6	13.3	15.0
25	3.1	1.6	2.4	10.0	3.2	6.4	12.4	4.8	8.3	14.4	10.9	12.7
26	3.2	-.1	1.7	10.5	3.0	7.0	14.3	6.2	10.1	16.5	11.0	13.7
27	2.4	.8	1.4	10.4	4.9	7.8	16.1	6.7	11.4	17.4	11.2	14.2
28	4.1	.4	1.9	11.4	4.7	8.4	16.8	10.5	13.6	18.9	11.9	15.4
29	---	---	---	12.0	6.6	9.0	14.4	10.3	11.5	20.7	13.7	16.9
30	---	---	---	11.3	3.2	7.4	15.5	7.0	11.2	21.7	15.3	18.4
31	---	---	---	10.4	5.8	8.2	---	---	---	22.7	15.8	19.2
MONTH	6.0	-.3	1.9	12.3	-.2	6.1	16.8	1.4	8.9	22.7	6.0	15.0

		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.5	16.6	19.9	21.2	15.3	18.1	22.8	17.7	20.1	20.4	17.0	18.7
2	20.2	16.3	18.5	21.2	14.1	17.7	21.9	18.9	20.2	20.6	17.3	19.1
3	21.3	15.0	18.3	20.9	14.4	17.7	22.7	18.8	20.5	20.7	17.0	18.9
4	20.3	15.9	18.4	20.7	14.4	17.7	21.5	19.3	20.3	20.8	17.7	19.3
5	20.6	14.7	17.8	21.5	15.2	18.4	21.7	19.0	20.1	20.8	17.1	19.1
6	18.6	14.9	17.0	21.8	15.8	18.8	21.8	18.2	20.0	19.9	17.5	18.4
7	17.5	14.9	16.1	22.5	17.4	19.8	22.3	17.8	20.0	19.9	15.1	17.5
8	15.4	12.9	14.2	22.3	16.3	19.3	22.5	17.4	20.0	19.7	15.3	17.6
9	17.1	13.2	14.9	21.6	16.7	19.2	22.1	18.4	20.4	20.1	17.1	18.6
10	19.9	14.4	16.9	21.8	16.2	19.1	20.9	18.5	20.0	18.8	15.9	17.6
11	20.1	14.6	17.5	20.4	17.7	19.2	20.0	17.1	18.4	18.7	15.5	17.2
12	20.3	15.0	17.7	21.8	16.6	19.1	20.0	16.6	18.5	19.0	15.6	17.3
13	19.3	15.0	17.3	21.7	15.7	18.8	21.0	17.2	19.1	18.0	15.3	16.9
14	17.7	14.3	16.1	22.4	16.1	19.3	20.9	16.7	19.0	18.7	15.0	16.6
15	17.8	12.7	15.4	23.0	16.9	20.0	21.1	16.2	18.7	17.6	15.8	16.7
16	19.9	14.1	16.9	21.6	17.3	19.7	20.4	16.4	18.4	17.4	15.3	16.5
17	21.6	14.9	18.2	22.0	16.9	19.7	21.4	16.2	18.7	19.0	15.3	17.1
18	21.8	15.6	18.8	22.1	18.1	20.2	22.4	17.9	20.0	19.2	15.8	17.5
19	22.2	17.0	19.6	22.5	18.4	20.4	21.8	16.8	19.3	18.6	15.7	17.3
20	22.0	16.1	19.1	22.4	18.4	20.4	22.3	16.4	19.2	18.6	14.9	16.8
21	21.9	15.3	18.7	21.6	18.7	20.1	21.8	16.6	19.2	17.0	15.4	16.2
22	22.0	16.1	19.2	23.2	19.1	21.0	22.7	18.3	20.4	15.6	12.5	14.3
23	21.9	16.2	19.2	23.4	19.4	21.4	22.3	18.5	20.6	16.3	11.7	13.9
24	21.9	15.8	18.9	23.2	18.6	21.0	22.6	18.7	20.8	16.5	11.5	13.9
25	21.7	16.2	19.0	21.7	17.9	20.2	21.9	18.3	20.2	17.3	12.3	14.6
26	21.9	16.3	19.1	21.0	19.0	20.0	21.4	18.9	20.3	16.9	15.2	16.0
27	21.6	17.2	19.5	22.1	18.2	20.0	21.1	16.9	19.3	18.3	14.2	16.1
28	21.4	16.8	19.3	20.8	18.8	19.6	21.6	17.4	19.6	17.3	12.9	15.3
29	21.7	15.7	18.8	18.9	17.4	18.3	20.7	17.6	19.4	17.1	12.8	14.9
30	21.5	15.4	18.5	18.6	17.7	18.1	20.7	17.7	19.1	16.6	12.3	14.5
31	---	---	---	21.6	17.5	19.2	19.6	17.6	18.5	---	---	---
MONTH	23.5	12.7	18.0	23.4	14.1	19.4	22.8	16.2	19.6	20.8	11.5	16.8

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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	45	29	e40	72	53	44	32	89	76	176	132
2	35	40	e27	48	78	47	41	37	87	76	154	118
3	360	40	e25	86	73	53	37	44	94	e76	154	109
4	380	46	e25	127	64	61	127	43	91	e78	164	108
5	116	38	e27	60	59	47	158	38	94	e84	241	105
6	71	34	29	53	61	44	109	32	87	e96	177	100
7	67	30	e29	43	50	54	122	42	100	e85	146	100
8	49	27	e29	e40	45	72	111	44	154	e82	125	96
9	43	29	28	e34	45	82	82	51	147	75	108	91
10	44	29	83	e34	43	88	66	50	138	82	154	97
11	38	28	224	e38	47	100	55	53	134	86	199	104
12	36	27	99	e40	53	108	72	51	127	86	137	146
13	35	27	58	e39	55	117	81	49	121	86	120	124
14	34	27	45	e35	51	107	80	39	116	78	103	129
15	34	30	33	e29	47	90	82	43	116	74	101	148
16	35	55	e33	e28	57	82	81	48	118	77	93	273
17	34	37	30	e29	67	82	78	54	111	86	90	137
18	32	32	e22	e31	82	73	79	49	93	89	88	112
19	36	49	e25	e35	103	66	79	46	96	100	97	112
20	39	47	e43	e38	97	64	78	68	89	125	95	107
21	38	35	e38	e42	70	62	78	101	85	120	88	160
22	32	44	e35	e42	55	55	79	142	87	110	96	289
23	33	85	e33	e40	51	49	79	129	86	123	91	151
24	32	49	e26	e42	49	46	113	126	82	119	88	128
25	35	33	e30	e41	52	43	134	181	79	114	87	102
26	49	28	e35	99	51	40	97	164	76	123	95	100
27	62	28	e34	165	51	41	86	133	76	142	98	109
28	99	25	e35	191	54	40	80	117	83	168	90	100
29	111	30	e37	117	---	40	44	112	79	206	97	99
30	60	38	e38	71	---	36	33	105	76	185	96	93
31	50	---	e38	67	---	36	---	97	---	229	102	---
TOTAL	2157	1112	1322	1824	1682	1978	2485	2320	3011	3336	3750	3779
MEAN	69.6	37.1	42.6	58.8	60.1	63.8	82.8	74.8	100	108	121	126
MAX	380	85	224	191	103	117	158	181	154	229	241	289
MIN	32	25	22	28	43	36	33	32	76	74	87	91
AC-FT	4280	2210	2620	3620	3340	3920	4930	4600	5970	6620	7440	7500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1997, BY WATER YEAR (WY)

MEAN	85.7	49.0	37.2	38.5	46.4	55.7	44.2	61.9	85.7	95.2	109	107
MAX	125	60.9	42.6	58.8	62.5	87.4	82.8	74.8	100	108	125	126
(WY)	1994	1994	1997	1997	1994	1995	1997	1997	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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1993 - 1997	
ANNUAL TOTAL	19678		28756			
ANNUAL MEAN	53.8		78.8		68.1	
HIGHEST ANNUAL MEAN					78.8	1997
LOWEST ANNUAL MEAN					54.2	1996
HIGHEST DAILY MEAN	380	Oct 4	380	Oct 4	757	Mar 6 1995
LOWEST DAILY MEAN	11	Apr 9	e22	Dec 18	11	Apr 9 1996
ANNUAL SEVEN-DAY MINIMUM	13	Apr 6	27	Dec 1	13	Apr 6 1996
INSTANTANEOUS PEAK FLOW			788	Oct 3	1080	Mar 6 1995
INSTANTANEOUS PEAK STAGE			7.13	Oct 3	8.42	Mar 6 1995
ANNUAL RUNOFF (AC-FT)	39030		57040		49310	
10 PERCENT EXCEEDS	99		133		119	
50 PERCENT EXCEEDS	38		74		58	
90 PERCENT EXCEEDS	20		32		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 excellent: Jul. 8-16, Jul. 31 to Aug. 8, Aug. 28 to Sept. 8; good: Oct. 29 to Dec. 20, Feb. 19 to Mar. 10, Jul. 16-31, Sept. 8-30; fair: Dec. 20 to Feb. 19, Aug. 23-28; and poor: Oct. 1-29, Mar. 10 to Jul. 8, Aug. 8-23.

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, 3,350 microsiemens, Dec. 10; minimum, 1,020 microsiemens, Sept. 22-24.
WATER TEMPERATURE: Maximum, 24.9°C, July 15; minimum, -0.3°C on many days Dec. to Mar.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	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										
29...	1400	94	2200	8.2	6.0	1200	270	130	110	1
DEC										
05...	1330	54	2980	8.3	0.0	1600	340	190	180	2
JAN										
23...	1350	39	2780	8.2	0.0	1500	320	170	160	2
MAR										
10...	1330	73	2630	8.2	7.0	1300	280	150	160	2
MAY										
13...	1355	46	1880	8.4	18.5	880	190	100	98	1
30...	1240	110	1580	8.3	19.0	820	190	82	67	1
JUL										
08...	1345	81	1330	8.4	21.5	650	150	64	50	0.9
16...	1220	74	1350	8.3	21.0	680	170	65	51	0.8
31...	0945	184	1440	8.3	17.5	730	180	68	58	0.9
AUG										
08...	1230	119	1450	8.3	20.0	760	190	69	51	0.8
15...	1220	103	1450	8.2	18.5	750	190	69	50	0.8
28...	1015	89	1430	8.3	18.5	720	170	70	52	0.9

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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...	7.7	225	1100	29	0.4	10	1790	2.44	457
DEC									
05...	5.3	294	1700	37	0.4	11	2640	3.59	386
JAN									
23...	3.9	282	1500	34	0.4	12	2370	3.22	251
MAR									
10...	4.8	246	1400	35	0.4	8.8	2190	2.97	433
MAY									
13...	4.4	200	900	22	0.4	7.8	1440	1.96	180
30...	4.1	221	680	15	0.3	11	1180	1.61	351
JUL									
08...	3.4	211	540	12	0.3	10	957	1.30	210
16...	3.6	218	530	12	0.3	10	973	1.32	193
31...	4.2	209	590	14	0.3	12	1050	1.43	521
AUG									
08...	3.9	225	590	13	0.4	12	1070	1.45	343
15...	3.6	220	600	13	0.3	12	1070	1.46	298
28...	3.8	214	590	12	0.4	11	1040	1.42	250

09371520 McELMO CREEK ABOVE TRAIL CANYON, NEAR CORTEZ, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM @ 25 DEG.C),WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	1800	1750	1770	2270	2240	2260	3300	2670	2880	3100	2860	2940
2	1900	1760	1810	2260	2150	2190	3010	2740	2880	2990	2890	2940
3	1830	1450	1680	2240	2210	2220	3150	2820	2970	3060	2720	2900
4	2350	1660	1890	2340	2230	2280	3070	2820	2960	2990	2520	2640
5	2470	2330	2410	2300	2250	2280	3130	2940	3030	2790	2630	2710
6	2540	2470	2500	2310	2270	2290	3040	2880	2960	2900	2780	2840
7	2520	2470	2490	2290	2230	2270	3090	2830	2930	3340	2750	2910
8	2540	2490	2510	2290	2230	2260	3130	2820	2940	3190	2810	2930
9	2520	2430	2480	2300	2240	2280	3190	2880	3040	3120	2800	2950
10	2430	2380	2400	2350	2290	2330	3350	2680	3010	3050	2790	2920
11	2380	2320	2350	2370	2310	2340	2800	2450	2610	3000	2730	2900
12	2330	2290	2310	2370	2310	2340	2760	2480	2650	2910	2750	2830
13	2330	2270	2300	2390	2330	2360	2920	2760	2830	2900	2780	2840
14	2320	2290	2300	2430	2370	2400	2950	2910	2930	2880	2760	2830
15	2340	2290	2310	2460	2300	2420	3100	2620	2870	3140	2740	2880
16	2340	2290	2320	2620	2300	2520	2950	2730	2800	3140	2900	3020
17	2340	2310	2320	2670	2570	2600	3320	2900	3070	3120	2950	3060
18	2340	2290	2320	2670	2540	2640	3310	2940	3180	3090	2910	3020
19	2340	2310	2330	2700	2540	2630	3230	3010	3120	3010	2810	2930
20	2330	2290	2310	2640	2590	2620	3030	2890	2980	2920	2760	2860
21	2290	2250	2270	2640	2590	2620	2910	2820	2880	2870	2720	2780
22	2270	2230	2250	2720	2490	2630	2840	2730	2800	2840	2740	2780
23	2310	2240	2270	2760	2580	2680	2770	2680	2720	2870	2750	2820
24	2350	2290	2320	2770	2650	2710	2920	2680	2770	2870	2770	2820
25	2380	2350	2370	2790	2690	2730	2960	2720	2890	2900	2790	2850
26	2380	2290	2360	2770	2690	2740	2970	2730	2860	2890	2660	2790
27	2290	2230	2250	2790	2730	2760	2840	2710	2770	2740	2550	2620
28	2250	2230	2240	2810	2760	2780	2760	2660	2710	2890	2640	2750
29	2260	2130	2230	2780	2700	2750	2840	2710	2800	3060	2810	2910
30	2260	2220	2240	2860	2700	2780	2880	2770	2840	3160	2870	3010
31	2260	2220	2240	---	---	---	2880	2820	2850	3170	2890	3050
MONTH	2540	1450	2260	2860	2150	2490	3350	2450	2890	3340	2520	2870
		FEBRUARY			MARCH			APRIL			MAY	
1	3170	2990	3080	3150	2760	2950	2550	2420	2480	2640	2460	2520
2	3200	2970	3030	3130	2750	2900	2470	2360	2410	2540	2190	2490
3	3090	2990	3040	2990	2880	2940	2460	2360	2420	2190	1920	2050
4	3120	2890	3040	3020	2840	2950	2880	2360	2640	2080	2020	2050
5	3090	2950	3020	3090	2790	2900	2970	2720	2820	2110	1960	2020
6	3060	2990	3010	2980	2760	2880	2920	2710	2840	2250	2090	2180
7	3330	2820	3010	2890	2770	2830	2970	2560	2690	2180	1830	2000
8	3190	2770	2990	2830	2410	2720	2760	2550	2630	1960	1820	1890
9	3140	2800	2960	2690	2200	2460	2760	2610	2680	1860	1760	1800
10	3160	2800	2950	2660	1990	2340	2730	2650	2680	2020	1780	1960
11	3020	2910	2960	2580	1970	2200	2700	2610	2660	2010	1950	1970
12	3070	2830	2960	2390	1990	2150	2740	2440	2570	2050	1850	1950
13	3030	2870	2950	2400	2000	2140	2740	2540	2660	2050	1850	1950
14	3230	2890	3000	2260	1950	2100	2720	2610	2680	2060	1890	2000
15	3040	2830	2950	2340	2100	2200	2650	2530	2600	2090	1780	1900
16	2990	2760	2880	2430	2200	2290	2620	2580	2600	1900	1710	1810
17	2910	2720	2800	2460	2270	2320	2750	2550	2580	1800	1630	1690
18	2880	2630	2760	2480	2290	2360	2660	2550	2610	1840	1700	1760
19	2670	2360	2470	2540	2330	2420	2660	2600	2630	1860	1700	1790
20	2520	2300	2400	2640	2390	2490	2690	2600	2640	1960	1630	1710
21	2680	2410	2550	2660	2450	2520	2640	2570	2600	2130	1760	1840
22	2860	2610	2680	2650	2500	2550	2670	2580	2640	2120	1680	1810
23	2840	2760	2790	2770	2590	2670	2660	2570	2620	1840	1760	1800
24	2850	2790	2810	2790	2700	2750	3030	2580	2850	1790	1580	1690
25	2970	2800	2860	2830	2760	2780	2800	2140	2430	1640	1560	1610
26	2970	2770	2860	2810	2740	2770	2150	1930	2030	1640	1550	1590
27	2920	2750	2810	2800	2750	2780	1980	1880	1920	1550	1450	1510
28	2960	2750	2840	2810	2690	2750	2050	1870	1960	1540	1510	1520
29	---	---	---	2730	2610	2670	2130	1890	2000	1550	1480	1500
30	---	---	---	2630	2560	2590	2470	2130	2370	1570	1500	1540
31	---	---	---	2600	2490	2550	---	---	---	1560	1470	1500
MONTH	3330	2300	2870	3150	1950	2580	3030	1870	2530	2640	1450	1850

09371520 McELMO CREEK ABOVE TRAIL CANYON, NEAR CORTEZ, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM @ 25 DEG.C),WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	1550	1490	1510	1400	1360	1380	1340	1250	1280	1400	1310	1360
2	1600	1530	1570	1400	1310	1340	1280	1220	1260	1380	1350	1370
3	1600	1490	1520	---	---	---	1280	1230	1260	1360	1330	1350
4	1510	1480	1490	---	---	---	1290	1240	1270	1350	1320	1330
5	1510	1450	1470	---	---	---	1470	1240	1360	1370	1340	1350
6	1520	1420	1450	---	---	---	1430	1400	1410	1370	1340	1350
7	1460	1350	1380	---	---	---	1500	1430	1460	1410	1370	1380
8	1450	1350	1390	---	---	1350	1470	1440	1460	1430	1390	1400
9	1490	1390	1440	1410	1350	1380	1470	1340	1450	1430	1400	1420
10	1490	1440	1460	1370	1330	1350	1380	---	1240	1400	1350	1360
11	1500	1450	1470	1360	1300	1330	1530	1210	1290	1390	1310	1350
12	1470	1440	1460	1390	1320	1340	1230	1150	1200	1430	1310	1370
13	1450	1390	1420	1390	1290	1310	1370	1230	1310	1430	1360	1390
14	1390	1360	1370	1360	1300	1320	1520	1270	1320	1360	1330	1340
15	1360	1320	1330	1370	1320	1350	1520	1430	1470	1370	1240	1340
16	1350	1290	1320	1380	1320	1360	1470	1430	1450	1940	1320	1530
17	1380	1290	1320	1380	1300	1340	1540	1450	1490	1570	1490	1530
18	1490	1380	1460	1390	1250	1300	1600	1340	1440	1560	1500	1520
19	1460	1400	1410	1290	1230	1250	1470	1360	1400	1590	1480	1560
20	1450	1400	1420	1240	1110	1200	1380	1340	1370	1590	1520	1550
21	1430	1380	1390	1290	1190	1250	1360	1340	1350	1660	1140	1480
22	1430	1400	1410	1280	1210	1250	1390	1270	1330	1330	1020	1170
23	1460	1390	1410	1320	1210	1250	1360	1320	1350	1140	1020	1040
24	1430	1370	1400	1240	1180	1210	1320	1260	1290	1200	1020	1050
25	---	---	1420	1240	1190	1210	1380	1280	1330	1450	1200	1350
26	1450	1410	1430	1230	1150	1180	1390	1330	1370	1440	1230	1310
27	1460	1410	1430	1190	1140	1160	1400	1350	1380	1360	1100	1200
28	1420	1290	1360	1190	1110	1150	1440	1360	1400	1350	1240	1280
29	1390	1320	1340	1220	1120	1160	1400	1340	1380	1620	1280	1480
30	1400	1330	1360	1750	1140	1280	1360	1320	1330	1680	1370	1550
31	---	---	---	1450	1220	1300	1370	1310	1350	---	---	---
MONTH	---	---	1420	---	---	---	1600	1020	1360	1940	1020	1370

TEMPERATURE, WATER (DEG.C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	16.1	9.3	12.6	6.6	3.1	4.9	.4	-.3	-.1	2.8	.5	1.6
2	15.3	10.5	13.1	6.7	2.9	4.9	.0	-.3	-.2	3.9	1.0	2.5
3	13.8	10.0	11.6	6.7	5.0	5.7	-.1	-.2	-.2	4.4	2.5	3.6
4	12.0	9.9	10.8	8.2	5.6	6.7	-.2	-.2	-.2	2.5	.6	1.5
5	13.7	11.0	12.2	7.4	4.8	5.9	-.2	-.2	-.2	1.8	.4	1.0
6	14.8	11.5	13.2	7.3	4.3	5.6	-.1	-.2	-.2	1.4	-.3	.6
7	14.6	11.4	13.1	5.1	2.0	3.6	.1	-.2	-.2	-.2	-.3	-.2
8	14.6	11.2	13.0	4.9	1.0	3.1	.7	-.2	.1	-.2	-.2	-.2
9	14.7	11.1	13.0	5.7	1.6	3.7	2.4	-.3	1.0	-.2	-.2	-.2
10	14.8	11.1	13.0	5.7	1.8	3.8	3.4	1.8	2.6	-.2	-.2	-.2
11	14.6	10.9	12.9	5.3	1.4	3.5	3.4	2.7	3.0	-.2	-.2	-.2
12	14.5	10.9	12.7	5.5	1.5	3.6	4.4	2.8	3.4	-.2	-.2	-.2
13	14.1	10.4	12.3	6.3	2.5	4.4	4.1	2.1	3.2	-.2	-.2	-.2
14	13.9	11.2	12.5	6.5	3.6	5.3	3.1	.4	2.2	-.2	-.2	-.2
15	13.3	10.0	11.7	5.9	3.9	5.2	.4	-.3	-.1	-.2	-.2	-.2
16	11.7	9.3	10.6	4.5	2.6	3.7	.6	-.3	-.1	-.2	-.2	-.2
17	10.7	8.6	9.6	2.6	1.7	2.2	-.2	-.3	-.2	-.2	-.2	-.2
18	9.8	6.2	8.2	6.0	2.3	4.0	-.2	-.2	-.2	-.2	-.2	-.2
19	10.3	7.5	9.0	6.1	3.1	4.6	-.2	-.2	-.2	-.2	-.2	-.2
20	9.6	7.9	8.8	6.9	3.9	5.2	-.2	-.2	-.2	-.2	-.2	-.2
21	7.9	5.2	6.3	7.1	3.5	5.5	-.2	-.2	-.2	-.2	-.2	-.2
22	5.8	3.0	4.6	7.4	6.3	7.0	-.2	-.2	-.2	-.2	-.2	-.2
23	6.8	3.2	5.0	6.9	5.0	6.1	-.2	-.2	-.2	-.2	-.2	-.2
24	6.9	3.8	5.5	5.3	3.2	4.3	-.2	-.2	-.2	-.2	-.2	-.2
25	6.9	5.7	6.3	5.0	2.3	3.7	-.2	-.2	-.2	-.2	-.2	-.2
26	5.9	4.0	5.1	4.2	2.3	3.5	-.2	-.2	-.2	-.2	-.2	-.2
27	6.1	5.0	5.4	4.8	2.5	3.6	-.2	-.2	-.2	-.1	-.2	-.2
28	6.7	6.1	6.4	3.8	.9	2.5	-.1	-.2	-.2	-.1	-.2	-.2
29	6.1	4.8	5.6	2.9	1.6	2.2	-.1	-.2	-.2	1.1	-.2	.2
30	7.1	3.6	5.3	2.7	.4	1.6	-.1	-.2	-.2	2.7	-.2	1.3
31	6.9	4.4	5.5	---	---	---	1.3	-.2	.4	3.2	-.2	1.7
MONTH	16.1	3.0	9.5	8.2	.4	4.3	4.4	-.3	.4	4.4	-.3	.3

09371520 McELMO CREEK ABOVE TRAIL CANYON, NEAR CORTEZ, CO--Continued

TEMPERATURE, WATER (DEG.C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	4.2	1.2	2.6	4.7	-.3	2.0	13.3	7.1	9.8	15.8	9.9	12.3
2	2.8	1.2	2.0	4.9	-.3	2.2	11.9	7.2	9.6	15.9	7.2	11.4
3	3.6	1.2	2.3	6.2	.5	3.3	12.6	7.8	10.1	17.3	7.7	12.4
4	3.3	-.1	1.6	4.8	1.6	3.1	9.9	4.1	6.7	18.0	9.9	14.1
5	3.5	.0	1.8	5.2	-.2	2.2	6.8	2.9	4.7	19.5	11.4	15.4
6	2.4	.5	1.8	6.2	-.3	2.9	8.3	2.9	5.4	21.2	12.8	16.8
7	2.4	-.3	.5	7.5	1.2	4.3	8.6	5.3	6.8	21.5	13.4	17.3
8	2.5	-.3	.6	7.7	2.1	4.8	9.1	5.6	7.5	18.6	13.4	15.8
9	3.1	-.3	1.0	7.7	2.6	5.1	11.3	7.0	9.0	17.6	11.9	14.8
10	3.7	-.3	1.3	8.2	2.7	5.4	11.6	6.7	9.0	19.8	11.3	15.4
11	4.7	.4	2.3	8.4	2.9	5.6	11.4	5.3	8.1	19.7	11.9	15.8
12	4.1	.6	2.4	9.0	4.3	6.5	7.8	4.4	5.8	20.3	12.9	16.4
13	4.3	.9	2.4	8.5	4.5	6.5	10.0	3.4	6.4	20.7	12.3	16.4
14	4.0	-.3	1.6	8.4	3.9	6.1	11.2	4.9	7.9	---	12.6	---
15	4.8	-.3	2.2	8.6	4.2	6.5	12.6	6.5	9.5	21.3	13.0	17.1
16	5.0	.7	2.9	10.1	4.9	7.5	14.3	7.5	10.8	21.0	13.9	17.6
17	4.5	2.5	3.4	10.7	6.7	8.3	14.1	8.6	11.5	22.2	14.0	18.0
18	6.1	2.7	4.1	10.8	4.9	7.8	15.6	9.3	12.4	21.7	15.4	18.5
19	5.2	1.8	3.5	11.8	4.9	8.3	15.4	9.4	12.6	20.5	14.7	17.5
20	3.8	1.8	2.7	12.8	6.0	9.3	14.6	10.1	12.4	17.0	14.4	15.9
21	3.9	-.2	1.7	12.5	6.6	9.6	14.5	10.3	12.5	16.4	14.1	15.1
22	2.8	-.3	1.2	13.3	7.1	10.1	15.8	9.7	12.6	18.2	13.3	15.3
23	4.2	.8	2.3	13.8	7.3	10.5	12.6	9.9	11.0	17.6	13.3	15.8
24	3.7	1.0	2.3	10.5	5.8	8.3	9.9	6.3	8.3	16.7	13.3	15.1
25	4.3	2.0	3.0	10.9	3.5	7.1	11.9	7.1	9.3	14.0	10.9	12.6
26	4.0	.3	2.1	12.1	3.9	8.1	14.0	8.6	11.3	16.2	11.3	13.7
27	2.2	-.2	1.3	12.2	6.0	9.1	15.7	9.2	12.5	17.2	11.6	14.3
28	3.3	-.2	1.1	13.8	5.9	9.9	16.9	12.3	14.3	18.5	12.5	15.7
29	---	---	---	13.5	7.4	10.2	14.4	11.1	12.8	20.3	14.2	17.2
30	---	---	---	13.1	4.5	9.0	16.6	8.1	12.3	21.6	15.9	18.8
31	---	---	---	11.6	6.8	9.2	---	---	---	23.5	15.9	19.6
MONTH	6.1	-.3	2.1	13.8	-.3	6.7	16.9	2.9	9.8	---	7.2	---
	JUNE			JULY			AUGUST			SEPTEMBER		
1	24.0	16.9	20.4	22.2	15.0	18.6	22.9	18.1	20.5	21.3	17.4	19.2
2	20.5	16.5	18.7	22.2	14.2	18.2	22.0	19.1	20.4	21.6	17.5	19.5
3	22.0	15.2	18.7	---	14.5	---	22.7	18.8	20.6	21.7	17.3	19.4
4	20.9	15.7	18.5	---	---	---	21.5	19.2	20.4	21.8	17.9	19.7
5	21.3	14.5	17.9	---	---	---	21.5	18.7	20.0	21.8	17.3	19.6
6	19.0	15.0	17.2	---	---	---	22.2	18.1	20.2	19.8	17.7	18.6
7	16.9	14.5	15.7	---	---	---	22.7	18.0	20.2	20.8	15.5	18.1
8	15.0	12.7	13.8	23.7	16.4	19.5	23.0	17.6	20.3	20.8	15.7	18.3
9	16.6	13.3	14.8	23.0	16.9	19.8	22.6	18.7	20.7	21.5	17.4	19.1
10	19.9	14.6	17.1	23.0	16.5	19.7	20.9	18.6	19.8	20.8	16.2	18.5
11	20.8	14.9	17.8	20.8	18.0	19.6	20.0	16.7	18.4	19.1	16.1	17.7
12	19.5	15.2	17.5	22.8	16.8	19.6	20.4	16.6	18.6	19.7	15.8	17.8
13	19.6	15.2	17.4	23.2	16.0	19.5	22.1	17.3	19.5	18.5	15.8	17.4
14	17.9	14.4	16.2	23.9	16.3	20.1	21.6	17.0	19.3	19.2	15.3	17.1
15	17.3	12.8	15.4	24.9	16.8	20.8	21.8	16.5	19.1	17.7	16.1	17.0
16	19.8	14.2	17.0	22.1	17.1	19.9	21.2	16.8	19.1	17.9	15.7	16.7
17	21.3	15.3	18.3	22.5	16.7	19.8	21.9	16.6	19.2	19.4	15.5	17.5
18	22.8	16.1	19.4	22.1	18.1	20.3	23.3	18.3	20.6	19.8	16.2	18.0
19	23.0	17.2	20.0	23.4	18.6	20.8	22.5	17.4	20.0	19.3	16.0	17.6
20	23.0	16.0	19.4	22.5	18.2	20.3	22.9	17.2	19.9	19.0	15.1	17.0
21	23.3	15.6	19.4	22.0	18.6	20.3	23.3	17.4	20.2	17.1	13.4	15.9
22	23.5	16.2	19.8	23.5	19.2	21.1	23.8	18.8	21.0	15.2	12.4	13.8
23	23.3	16.3	19.7	23.9	19.4	21.4	23.7	18.8	21.2	16.1	12.2	14.2
24	23.1	15.7	19.4	23.6	18.5	21.1	23.8	19.0	21.3	16.7	12.2	14.5
25	22.3	---	---	22.1	17.9	20.3	22.4	18.9	20.6	17.1	13.1	15.2
26	22.7	16.1	19.5	21.4	19.2	20.3	21.9	19.2	20.6	16.8	15.6	16.3
27	22.1	17.2	19.8	22.2	18.3	20.1	22.4	17.3	19.8	18.5	14.8	16.5
28	22.3	16.8	19.6	20.9	18.4	19.6	22.4	17.7	20.1	17.7	13.5	15.7
29	22.6	15.8	19.3	19.0	17.2	18.3	21.7	17.9	19.8	17.5	13.2	15.4
30	22.5	15.5	19.0	18.7	17.5	18.2	21.3	17.8	19.5	17.1	12.8	15.0
31	---	---	---	20.8	17.5	18.9	19.5	17.8	18.6	---	---	---
MONTH	24.0	---	---	---	---	---	23.8	16.5	20.0	21.8	12.2	17.2

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. Water-quality data available, November 1977 to September 1981, and August 1987 to current year.

REVISED RECORDS.--WSP 1925: 1951-52 (M), 1957 (M). WRD CO-1972: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,890 ft above sea level, from topographic map.

REMARKS.--Records good except for period Oct. 1-29, which are fair, and 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 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	62	53	48	72	59	41	31	65	51	221	128
2	31	59	e44	48	79	54	47	24	59	54	150	131
3	601	56	e42	55	76	57	43	24	66	50	143	115
4	696	59	e41	133	67	63	74	21	68	51	171	111
5	178	60	41	72	62	58	190	23	72	54	234	114
6	98	55	54	55	63	53	144	19	70	62	215	115
7	81	51	50	45	57	56	100	16	79	51	149	110
8	73	49	48	43	49	69	104	20	113	51	133	105
9	62	49	51	39	53	83	101	25	141	46	121	98
10	54	48	69	42	50	89	90	30	127	47	152	97
11	50	46	230	43	52	103	73	32	116	51	244	108
12	49	46	164	47	54	111	62	36	115	56	172	151
13	47	46	85	46	58	119	63	30	111	57	148	144
14	47	45	65	42	54	116	65	26	102	47	133	142
15	46	44	52	34	53	97	66	24	100	48	124	261
16	46	65	47	35	56	88	67	24	100	41	120	345
17	47	65	48	33	63	84	68	28	99	48	102	192
18	45	52	28	39	73	81	68	28	85	59	98	141
19	46	61	31	43	100	69	68	27	74	61	102	135
20	48	67	53	46	103	64	67	33	67	93	102	132
21	50	58	46	48	80	63	67	73	62	99	91	466
22	47	57	42	48	62	61	67	124	58	93	93	437
23	45	104	43	44	58	55	67	121	58	97	92	223
24	44	77	32	49	55	52	67	111	54	104	91	168
25	40	55	37	46	56	49	79	132	50	91	82	144
26	51	48	44	88	57	46	89	155	47	91	84	134
27	65	47	43	84	56	45	88	141	51	126	86	133
28	92	46	43	105	58	45	82	114	51	169	84	126
29	130	51	45	94	---	43	70	95	56	207	87	117
30	88	64	45	76	---	43	45	86	55	184	95	117
31	69	---	45	70	---	40	---	77	---	280	97	---
TOTAL	3110	1692	1761	1740	1776	2115	2322	1750	2371	2619	4016	4940
MEAN	100	56.4	56.8	56.1	63.4	68.2	77.4	56.5	79.0	84.5	130	165
MAX	696	104	230	133	103	119	190	155	141	280	244	466
MIN	31	44	28	33	49	40	41	16	47	41	82	97
AC-FT	6170	3360	3490	3450	3520	4200	4610	3470	4700	5190	7970	9800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1997, BY WATER YEAR (WY)

MEAN	57.6	49.9	39.8	33.8	49.7	60.3	42.1	47.8	55.7	52.7	64.1	60.0
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 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1951 - 1997	
ANNUAL TOTAL	19209.9		30212			
ANNUAL MEAN	52.5		82.8		51.6	
HIGHEST ANNUAL MEAN					94.6	1973
LOWEST ANNUAL MEAN					16.2	1977
HIGHEST DAILY MEAN	696	Oct 4	696	Oct 4	1200	Aug 7 1967
LOWEST DAILY MEAN	3.6	Apr 13	16	May 7	[a].08	Sep 9 1977
ANNUAL SEVEN-DAY MINIMUM	7.6	Apr 9	21	May 2	.14	Sep 21 1956
INSTANTANEOUS PEAK FLOW			2840	Sep 21	[b]3040	Aug 7 1967
INSTANTANEOUS PEAK STAGE			8.21	Sep 21	[c,d]7.58	Aug 7 1967
ANNUAL RUNOFF (AC-FT)	38100		59930		37380	
10 PERCENT EXCEEDS	86		141		97	
50 PERCENT EXCEEDS	45		63		39	
90 PERCENT EXCEEDS	20		42		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 1996 TO SEPTEMBER 1997

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)	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										
29...	1110	155	2450	8.2	6.5	1300	270	140	150	2
DEC										
05...	1105	41	2940	8.2	0.0	1700	350	190	180	2
JAN										
24...	1045	50	2770	8.4	0.0	1500	310	170	170	2
MAR										
10...	1035	104	2460	8.4	5.5	1200	260	140	150	2
MAY										
13...	1020	28	2250	8.2	15.5	1000	210	120	130	2
30...	1025	87	1730	8.2	18.5	850	190	91	84	1
JUL										
09...	1005	52	1640	8.3	22.0	830	190	84	80	1
16...	1010	46	1680	8.3	20.0	850	190	91	86	1
AUG										
01...	1105	205	1440	8.3	20.0	710	170	69	60	1
08...	1020	136	1640	8.4	19.5	840	200	81	71	1
15...	1030	124	1570	8.2	18.5	800	190	77	66	1
28...	1220	81	1600	8.4	21.5	760	170	80	70	1

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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...	6.9	243	1300	33	0.4	10	2060	2.80	860
DEC									
05...	5.6	298	1600	38	0.4	12	2550	3.47	285
JAN									
24...	4.4	270	1500	34	0.4	12	2360	3.21	319
MAR									
10...	4.7	239	1300	--	0.3	9.5	2060	2.81	579
MAY									
13...	5.4	234	1100	27	0.4	7.7	1760	2.39	133
30...	4.5	230	750	18	0.4	12	1290	1.76	304
JUL									
09...	4.6	241	680	16	0.4	11	1220	1.66	172
16...	4.4	236	710	17	0.4	9.6	1250	1.71	156
AUG									
01...	5.8	215	590	16	0.4	13	1060	1.44	584
08...	4.7	231	680	16	0.4	12	1210	1.65	444
15...	3.8	221	670	15	0.4	13	1170	1.59	391
28...	4.2	219	660	15	0.4	12	1150	1.57	252

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
SEP				
09...	1145	103	1650	19.5

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 NW¹/₄ sec.9, T.3 N., R.75 W., in Colorado River basin, to Lake Estes (Big Thompson River) in sec.30, T.5 N., R.72 W., in Platte River basin. For daily discharge, see elsewhere in this report.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09013000	6,480	22,930	17,150	21,800	22,100	11,340	15,870	32,510	29,430	29,060	8,790	9,150

Water year 1997, 226,600

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 SW¹/₄SW¹/₄ 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 1996 TO SEPTEMBER 1997

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09050590	8,710	5,100	5,880	5,860	3,480	468	6,730	1,170	0	15,160	464	3,750

Water year 1997, 56,770

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 SE¹/₄ sec.14, T.13 S., R.69 W., in the Arkansas River basin. Collection conduits extending from the right bank of Crystal Creek (tributary to Spruce Creek) in sec.14, T.7 S., R.78 W., right bank of Spruce Creek in sec.23, T.7 S., R.78 W., right bank of McCullough Gulch in sec.26, T.7 S., R.78 W., right bank of Monte Cristo Creek in SW¹/₄NE¹/₄ sec.2, T.8 S., R.78 W., left bank of Bemrose Creek in SW¹/₄SW¹/₄ 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 1996 TO SEPTEMBER 1997

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09042000	347	0	0	0	0	0	0	668	4,260	863	467	1,090

Water year 1997, 7,700

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 1996 TO SEPTEMBER 1997

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09063700	0	0	0	0	0	9,810	14,550	0	4,170	5,970	2,630	0

Water year 1997, 37,130

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 1996 TO SEPTEMBER 1997

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09073000	13	28	26	10	4.1	10	152	10,540	13,480	7,320	1,690	908

Water year 1997, 34,190

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 1996 TO SEPTEMBER 1997

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09077160	113	133	154	154	146	184	186	12,890	48,150	13,570	3,560	146

Water year 1997, 79,380

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 1996 TO SEPTEMBER 1997

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09077500	110	82	55	48	39	43	78	453	3,200	324	103	107

Water year 1997, 4,640

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

09010000	Grand River Ditch
09012000	Eureka Ditch
09021500	Berthoud Pass Ditch
09022500	Moffat Water Tunnel
09046000	Boreas Pass Ditch
09047300	Vidler Tunnel

TO ARKANSAS RIVER BASIN

09061500	Columbine Ditch
09062000	Ewing Ditch
09062500	Wurtz Ditch
09115000	Larkspur Ditch

TO RIO GRANDE BASIN

09118200	Tarbell Ditch
09121000	Tabor Ditch
09341000	Treasure Pass Ditch
09347000	Don LaFont Ditches 1 & 2
09348000	Williams Creek Squaw Pass Ditch
09351000	Pine River-Weminuche Pass Ditch
09351500	Weminuche Pass

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 1997

PiINEY 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 39º43'37", long 106º28'50", in Eagle County, on left bank 1.5 mi upstream from mouth, 7.5 mi north of Minturn.	0.76	1965-97	10-08-96	0.03
					6-24-97	5.32
					7-29-97	0.20
					9-10-97	0.06

*-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 1997 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis-charge (ft^3/s)	Date	Gage height (ft)	Dis-charge (ft^3/s)
PINEY RIVER BASIN								
*Moniger Creek near Minturn, CO (09058900)	Lat 39°43'37", long 106°28'50", in Eagle County, on left bank 1.5 mi upstream from mouth, 7.5 mi north of Minturn. Drainage area is 0.76 mi^2.	1965-97	6-20-97	1.74	12.0	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.

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	14.6	-.3	6.4	1.1	-14.5	-7.7	3.2	-18.3	-7.6	10.6	-6.0	-.3
2	16.5	1.4	8.0	9.5	-9.8	-1.2	-5.7	-16.6	-11.8	12.4	-4.9	.9
3	2.1	-.3	.3	2.5	-7.1	-1.7	-.7	-19.3	-9.7	3.5	-9.8	-2.7
4	10.2	-1.0	3.1	8.1	-5.3	-1.0	-6.4	-19.7	-11.7	-1.7	-16.2	-9.9
5	12.4	-2.1	3.5	4.2	-4.9	-1.3	-.7	-7.5	-3.0	-5.7	-15.3	-11.4
6	16.1	-1.7	5.2	-3.5	-16.6	-7.9	-2.4	-8.3	-5.9	-9.4	-21.1	-15.1
7	15.4	-.7	5.5	.0	-17.9	-10.8	.4	-9.0	-5.8	-4.9	-23.1	-14.4
8	16.5	-.3	6.3	5.3	-13.3	-5.4	9.2	-9.0	-2.3	-9.4	-20.7	-14.3
9	18.1	.4	7.3	9.9	-9.0	-2.2	8.8	-5.7	.6	-7.1	-16.2	-10.3
10	18.1	.4	7.3	11.7	-6.0	-.6	2.5	-3.5	-1.5	-1.7	-9.8	-7.1
11	17.7	1.8	7.9	12.4	-6.8	-.3	2.5	-2.8	-1.4	-4.9	-10.9	-8.4
12	18.1	.4	7.1	12.4	-6.0	.4	4.9	-6.8	-2.5	-6.0	-9.8	-8.1
13	16.5	-1.4	5.9	12.4	-3.1	3.1	7.8	-7.5	-1.9	-7.5	-9.8	-8.6
14	9.9	-1.7	3.9	5.3	-3.8	.0	-1.4	-18.8	-9.5	-6.4	-14.9	-10.5
15	12.4	-2.8	3.2	-3.1	-6.8	-4.3	-5.3	-23.6	-15.8	-1.7	-21.1	-13.7
16	7.1	-4.6	1.4	-4.9	-14.9	-9.3	-4.6	-16.2	-9.2	1.1	-18.8	-12.5
17	1.8	-8.3	-3.9	-3.8	-15.3	-8.0	-15.7	-32.4	-22.2	4.9	-17.0	-9.5
18	12.8	-4.6	3.9	7.8	-4.2	1.9	-14.5	-32.4	-23.1	7.8	-12.1	-5.0
19	5.3	-1.7	2.5	12.8	-1.4	4.4	-8.6	-20.2	-15.1	9.9	-8.3	-.5
20	-1.7	-11.3	-6.8	8.5	-2.8	1.4	-1.0	-19.7	-9.1	4.2	-7.5	-2.9
21	-7.1	-13.7	-10.9	8.1	-4.6	1.4	-3.8	-8.3	-5.4	-3.1	-10.1	-7.9
22	1.8	-18.3	-8.5	2.1	-3.1	-.4	-2.4	-9.4	-6.7	-2.4	-12.1	-7.7
23	8.5	-9.0	-3.1	-3.1	-8.3	-4.5	-7.5	-20.2	-12.2	-4.2	-10.5	-7.0
24	7.1	-8.6	-1.8	1.4	-14.5	-8.6	-1.4	-21.1	-13.8	-4.2	-13.7	-8.5
25	.0	-10.1	-3.9	4.2	-11.7	-5.9	1.8	-14.1	-7.1	-.3	-15.7	-6.4
26	-.3	-17.4	-9.0	.4	-12.5	-7.2	3.9	-9.8	-2.8	-2.4	-9.0	-4.5
27	1.8	-7.1	-3.0	.0	-14.5	-9.0	-2.4	-5.3	-4.0	-3.5	-14.1	-7.0
28	1.8	-8.3	-2.0	2.5	-11.7	-5.7	-.7	-10.9	-5.7	1.8	-15.3	-7.6
29	6.4	-9.8	-4.8	-2.4	-8.3	-6.1	8.8	-11.7	-3.6	.4	-12.5	-7.0
30	4.9	-9.4	-3.0	-6.0	-19.3	-12.0	11.0	-6.4	-.3	9.2	-14.5	-6.2
31	1.8	-10.9	-4.0	---	---	---	7.8	-6.0	-.8	9.5	-8.3	-.9
MONTH	18.1	-18.3	.8	12.8	-19.3	-3.6	11.0	-32.4	-7.4	12.4	-23.1	-7.6

375546107412000 IRONTON METEOROLOGICAL STATION NEAR OURAY, CO--Continued

TEMPERATURE,AIR (DEG.C) WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.7	-9.4	-2.8	-3.5	-21.6	-13.5	1.1	-6.0	-2.2	3.5	-6.8	-.7
2	1.8	-8.3	-3.7	7.1	-15.7	-5.3	4.2	-3.5	-.8	3.5	-10.5	-3.0
3	-3.8	-14.9	-8.8	.7	-9.4	-4.4	6.0	-2.1	1.0	10.6	-1.7	3.6
4	1.1	-14.9	-6.7	-5.3	-21.1	-11.7	-.3	-7.1	-3.4	13.9	-2.4	5.7
5	-.3	-11.3	-6.4	2.1	-23.1	-10.8	-7.1	-12.5	-10.1	15.0	-1.7	6.9
6	-3.1	-14.1	-8.8	5.7	-12.1	-3.7	.4	-15.3	-9.9	13.5	.7	6.5
7	.7	-20.2	-12.7	9.2	-12.9	-3.6	2.1	-14.5	-6.7	11.7	-.3	5.0
8	2.5	-17.4	-10.6	6.0	-7.1	-1.2	3.9	-12.5	-3.6	11.3	-1.4	3.7
9	2.8	-16.2	-9.8	6.4	-12.5	-3.6	2.5	-4.2	-1.2	5.7	-1.7	2.6
10	3.5	-16.6	-8.3	9.2	-10.5	-2.3	-1.7	-9.8	-4.9	12.1	-2.8	4.4
11	2.8	-11.7	-5.9	12.1	-6.4	2.3	-4.2	-14.9	-10.2	12.8	-2.4	5.4
12	3.9	-11.3	-4.9	9.5	-5.7	.7	-2.1	-21.1	-12.2	11.7	.0	5.6
13	-6.4	-17.9	-11.8	7.8	-6.4	-.8	-.7	-20.2	-10.1	13.5	-1.4	6.4
14	-.3	-17.9	-10.1	2.8	-8.6	-1.5	4.6	-15.3	-4.6	13.9	-.7	6.0
15	.7	-11.7	-6.8	8.1	-4.6	1.1	7.4	-6.4	-.5	15.0	.0	7.5
16	8.5	-10.5	-1.5	11.0	-6.0	1.5	11.7	-8.3	.9	15.4	.4	6.9
17	1.8	-6.4	-1.9	4.9	-4.2	.1	9.9	-4.2	2.5	14.6	1.1	7.5
18	3.5	-11.3	-3.1	7.1	-10.5	-2.1	10.2	-3.5	2.6	12.8	.7	7.4
19	7.8	-12.9	-5.0	10.2	-7.1	.8	11.0	-2.8	4.0	12.1	1.1	6.0
20	-.7	-12.5	-7.7	16.1	-3.8	4.0	9.9	-2.8	4.2	9.5	.7	5.0
21	-3.5	-20.7	-12.9	13.1	-3.1	3.6	7.1	-5.3	2.4	7.8	1.1	4.0
22	-1.4	-17.4	-11.1	11.0	-3.8	3.0	3.2	-5.3	-1.0	6.4	.7	2.5
23	-5.7	-16.2	-10.5	11.3	-3.5	2.7	3.5	-5.7	-1.0	11.0	-1.0	4.0
24	-3.8	-14.5	-10.0	.4	-10.1	-4.4	2.5	-8.6	-3.6	6.4	-1.7	2.5
25	-2.1	-12.1	-8.5	1.4	-15.7	-6.6	6.0	-7.5	-.9	6.0	-3.1	.4
26	-3.5	-18.3	-11.0	9.2	-10.9	-1.1	5.7	-2.8	.8	2.8	-7.1	-.6
27	-4.9	-12.9	-8.8	6.0	-4.6	.7	11.3	-7.1	2.9	8.8	-4.9	2.4
28	-4.2	-20.7	-9.7	9.2	-6.0	1.2	7.4	-.7	1.7	10.2	-2.4	4.5
29	---	---	---	.4	-11.3	-5.4	3.9	-4.9	1.2	13.1	1.8	7.6
30	---	---	---	9.9	-11.3	-.7	7.4	-10.5	-.8	15.8	2.8	8.8
31	---	---	---	4.6	-6.0	-.5	---	---	---	18.9	2.1	10.7
MONTH	8.5	-20.7	-7.8	16.1	-23.1	-2.0	11.7	-21.1	-2.1	18.9	-10.5	4.7
		JUNE			JULY			AUGUST			SEPTEMBER	
1	20.5	3.9	12.7	18.1	2.8	11.0	18.9	4.6	11.9	15.0	4.2	9.7
2	18.1	2.5	10.5	21.3	2.5	12.9	19.3	7.4	12.2	20.9	5.3	12.6
3	19.7	1.8	11.0	18.1	.4	9.6	18.5	8.1	12.2	18.1	6.4	11.3
4	18.9	2.5	10.9	18.5	-.3	10.2	17.3	9.2	12.2	14.6	4.6	8.3
5	17.7	3.5	10.5	19.3	2.5	11.1	12.8	6.0	9.8	17.7	3.5	9.6
6	17.3	1.8	8.4	20.1	4.2	12.0	14.6	4.2	8.7	17.3	3.9	8.4
7	11.7	2.1	6.4	18.1	5.3	11.5	13.5	3.9	8.1	17.7	2.1	9.0
8	8.5	.4	3.8	20.1	4.6	11.6	16.9	2.8	9.8	18.1	3.5	10.1
9	7.8	.0	3.4	18.5	4.2	11.4	19.3	5.3	9.7	13.5	4.2	8.5
10	13.1	3.2	7.6	19.7	4.6	12.7	14.6	2.8	7.7	15.4	4.2	8.8
11	15.4	.0	7.6	16.1	5.7	10.8	13.9	2.1	7.5	16.9	4.2	8.6
12	14.3	1.4	7.6	18.5	3.5	10.9	16.5	1.8	9.1	17.3	3.2	9.1
13	13.1	.0	6.7	19.3	1.4	10.5	15.0	3.9	8.8	16.5	2.5	7.2
14	12.8	1.4	7.6	21.3	3.2	12.5	15.4	4.2	9.1	16.5	2.5	7.9
15	11.3	-1.4	5.3	22.9	4.6	14.1	19.3	3.9	11.1	12.8	3.2	7.0
16	12.8	1.1	7.3	23.3	7.4	15.4	18.1	5.7	11.5	14.3	2.8	8.0
17	16.5	3.9	9.3	20.9	7.1	15.1	18.9	4.2	11.7	16.5	.7	9.2
18	17.7	2.5	10.7	20.9	6.0	11.3	14.3	4.6	9.4	16.9	7.1	11.2
19	19.3	4.2	12.1	15.8	6.7	10.8	18.1	4.2	10.0	13.5	5.3	8.8
20	19.7	3.9	12.4	17.7	3.9	11.1	18.9	4.2	11.0	14.3	4.6	7.8
21	20.9	4.2	12.7	18.5	7.1	12.3	19.3	4.9	12.2	8.5	2.5	4.7
22	20.5	4.6	13.3	18.1	7.1	11.6	17.3	7.8	11.1	6.7	1.4	3.6
23	19.3	3.5	12.2	17.7	6.4	11.1	19.3	5.3	11.5	9.2	-2.4	3.5
24	18.5	2.5	10.5	19.7	3.5	11.6	17.3	5.7	11.5	14.3	-2.1	5.2
25	18.1	1.8	10.7	20.9	4.9	13.8	18.1	5.3	10.3	18.9	2.1	9.3
26	18.5	3.9	10.8	20.1	7.8	12.1	16.9	6.0	10.0	15.0	5.7	9.3
27	17.7	3.9	10.1	16.1	7.8	10.7	19.3	4.2	11.1	15.4	.7	8.0
28	18.5	3.2	10.8	14.6	6.7	10.0	20.1	4.6	11.8	14.6	-1.4	5.9
29	18.5	2.8	11.3	16.1	6.7	10.3	16.9	5.7	10.3	18.9	.7	8.5
30	19.3	3.2	11.8	13.1	7.8	9.9	18.1	4.6	8.6	18.5	.7	8.1
31	---	---	---	14.3	7.1	10.5	13.5	6.0	9.1	---	---	---
MONTH	20.9	-1.4	9.5	23.3	-.3	11.6	20.1	1.8	10.3	20.9	-2.4	8.2
YEAR	23.3	-32.4	1.3									

375546107412000 IRONTON METEOROLOGICAL STATION NEAR OURAY, CO--Continued

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1
2	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	.0
3	2.3	.2	.1	.6	.0	.0	.0	.0	.0	.0	.1	.0
4	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.1	.2
5	.0	.0	.4	.3	.0	.1	.0	.0	.0	.0	.3	.0
6	.0	.3	.6	.2	.0	.0	.0	.0	.1	.0	.2	.1
7	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0
8	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.1	.0
9	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	.1
10	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.9	.1
11	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.2
12	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
13	.0	.0	.0	.1	.0	.0	.0	.0	.3	.0	.1	.3
14	.1	.2	.3	.6	.0	.0	.0	.0	.0	.0	.1	.0
15	.0	.8	.0	1.1	.0	.0	.0	.0	.1	.0	.0	.9
16	.3	.4	.4	.7	.0	.0	.0	.1	.0	.0	.0	.0
17	.0	.6	.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0
18	.0	.1	.5	.3	.0	.0	.0	.0	.0	.2	.2	.0
19	.1	.0	.2	.3	.1	.0	.0	.0	.0	.3	.0	.2
20	.3	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.4
21	.1	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.8
22	.0	.3	.1	.0	.0	.0	.0	.0	.0	.3	.6	.1
23	.0	.5	.2	.3	.0	.0	.0	.0	.0	.1	.0	.0
24	.0	.0	.7	.4	.0	.0	.1	.0	.0	.0	.0	.0
25	.5	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	.0
26	.1	.2	.7	.1	.0	.0	.0	.0	.0	.3	.6	.1
27	.7	.1	.0	.0	.0	.0	.1	.0	.0	.2	.1	.1
28	1.0	.0	.3	.2	.0	.0	.0	.0	.0	.2	.0	.0
29	.1	.3	.0	.1	---	.0	.0	.0	.0	.0	.0	.0
30	.0	.1	.0	.0	---	.0	.0	.0	.0	.4	.6	.0
31	.0	---	.0	.2	---	.1	---	.0	---	.0	.3	---
TOTAL	6.3	4.2	6.3	7.5	0.3	0.3	0.3	0.1	2.3	2.1	4.9	3.8

WATER YR 1997 TOTAL 36.6

375852107455200 GOVERNOR BASIN METEOROLOGICAL STATION NEAR TELLURIDE, CO

LOCATION.--Lat 37°58'52", long 107°45'52", Ouray County, Hydrologic Unit 14020006, 0.4 mi east of Stony Mountain, and 4.5 mi north of Telluride.

PERIOD OF RECORD.--October 1992 to current year.

GAGE.--Weighing-bucket rain gage with satellite telemetry. Elevation of gage is 11,150 ft above sea level, from topographic map.

REMARKS.--Unpublished air-temperature and rainfall data for water year 1993 are available in district office. Daily record for air temperature is good. Daily record for precipitation is good.

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	11.3	1.8	6.2	-1.7	-13.7	-8.3	-2.8	-16.2	-7.6	5.7	-1.4	1.9
2	12.8	.0	6.8	4.6	-5.3	-1.5	-10.1	-18.3	-14.8	6.7	-4.2	2.7
3	2.1	-1.0	.0	1.8	-6.4	-2.2	-5.7	-18.3	-11.4	2.1	-9.8	-3.5
4	6.0	-2.1	1.1	2.5	-6.0	-3.1	-7.1	-15.7	-12.3	-8.3	-17.9	-13.5
5	7.8	-1.0	2.5	-1.0	-6.8	-3.1	-2.4	-7.1	-4.9	-9.4	-16.6	-12.9
6	10.6	.4	4.3	-5.3	-16.2	-9.6	-5.7	-10.9	-8.1	-10.9	-21.1	-16.7
7	10.6	1.4	5.4	-5.7	-16.2	-10.1	-2.8	-10.1	-7.2	-9.8	-18.8	-14.7
8	11.7	1.8	5.9	.4	-10.5	-4.7	3.5	-6.0	-1.4	-13.7	-20.7	-16.5
9	13.1	2.5	6.8	6.0	-6.0	-1.5	3.9	-1.7	.4	-8.6	-15.7	-11.2
10	12.4	3.2	7.0	7.1	-2.8	.3	-.3	-5.7	-3.8	-5.7	-12.1	-8.3
11	13.5	3.9	7.7	6.0	-2.8	-.3	-2.8	-5.3	-4.4	-7.9	-12.1	-10.5
12	13.1	2.5	6.5	5.3	-3.1	.3	-2.1	-7.1	-5.3	-8.6	-11.7	-10.3
13	12.1	1.4	5.6	7.8	-1.7	2.4	-.3	-7.5	-4.1	-7.9	-10.9	-9.7
14	6.0	-.3	3.2	1.8	-4.2	-.5	-4.2	-19.3	-12.3	-10.1	-19.3	-12.9
15	8.5	-.3	3.4	-3.5	-8.6	-5.7	-7.9	-22.6	-17.2	-8.6	-19.7	-14.7
16	2.8	-5.7	.0	-8.3	-15.7	-11.4	-6.4	-18.8	-10.1	-8.6	-16.2	-12.7
17	-.3	-9.0	-5.6	-3.8	-14.9	-8.0	-18.8	-31.7	-25.4	-4.6	-14.1	-8.9
18	8.5	-.7	3.3	3.5	-3.8	.1	-15.7	-31.7	-23.8	2.5	-8.3	-4.1
19	3.5	-3.5	.8	8.1	.4	3.8	-8.3	-18.3	-14.3	3.9	-5.3	-1.7
20	-3.5	-13.7	-9.0	4.2	-1.4	1.0	-3.8	-16.6	-8.3	-.3	-7.9	-3.5
21	-11.3	-17.0	-13.6	4.9	-1.7	1.4	-6.4	-8.6	-7.4	-7.9	-13.3	-10.9
22	-2.1	-18.3	-9.7	1.8	-4.9	-1.3	-4.6	-10.9	-8.1	-4.9	-13.7	-9.8
23	.4	-7.9	-4.5	-3.5	-9.0	-6.4	-10.9	-17.4	-13.3	-6.0	-10.1	-8.3
24	3.9	-7.5	-3.3	-1.7	-14.1	-9.1	-9.0	-19.3	-14.0	-8.6	-13.3	-11.3
25	-2.8	-12.1	-5.8	-2.1	-10.9	-7.5	-3.8	-12.5	-7.0	-3.5	-13.3	-6.8
26	-6.8	-16.2	-11.4	-2.1	-12.5	-8.5	-.3	-7.1	-4.7	-4.2	-8.6	-6.0
27	-.7	-7.9	-4.7	-8.3	-16.6	-11.6	-5.3	-7.1	-6.5	-4.6	-14.1	-8.4
28	.7	-11.3	-3.1	-1.7	-9.4	-6.1	-5.7	-9.4	-7.7	-1.7	-13.3	-8.3
29	-2.1	-12.1	-7.2	-6.0	-9.8	-7.9	2.5	-9.4	-2.6	-6.8	-13.3	-9.8
30	1.4	-5.7	-2.2	-9.8	-19.3	-13.2	2.5	-4.9	-.6	.0	-12.9	-6.1
31	-1.0	-11.7	-4.6	---	---	---	2.8	-4.2	-1.0	3.5	-6.0	-.9
MONTH	13.5	-18.3	-.3	8.1	-19.3	-4.4	3.9	-31.7	-8.7	6.7	-21.1	-8.7

375852107455200 GOVERNOR BASIN METEOROLOGICAL STATION NEAR TELLURIDE, CO--Continued

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	-8.3	-4.3	-6.8	-19.7	-13.9	-2.1	-6.0	-4.3	.0	-8.6	-3.5
2	-2.4	-7.9	-5.2	2.5	-14.9	-6.1	-1.0	-6.4	-3.7	.4	-14.5	-5.7
3	-7.5	-13.3	-10.0	-3.8	-10.5	-7.4	3.2	-4.2	-1.1	7.1	-3.1	1.9
4	-1.4	-13.7	-7.1	-8.3	-20.7	-14.0	-2.4	-9.0	-5.1	10.6	.0	5.0
5	-3.1	-9.8	-7.4	-1.0	-22.6	-10.6	-9.0	-15.3	-12.5	10.6	.0	5.1
6	-6.8	-17.9	-11.1	2.1	-9.4	-5.1	-7.5	-17.0	-12.1	9.9	2.5	5.6
7	-8.6	-18.8	-14.6	1.1	-9.4	-5.0	-2.1	-11.7	-7.3	8.8	-.7	4.2
8	-4.6	-16.2	-11.9	2.5	-7.9	-3.7	1.1	-11.3	-5.3	9.2	.0	2.6
9	-4.9	-14.9	-11.3	2.5	-11.7	-4.8	-1.7	-6.0	-3.7	6.4	-.3	2.2
10	-1.4	-13.7	-8.6	5.3	-7.9	-2.3	-4.9	-13.3	-7.5	9.5	-1.7	3.5
11	-1.0	-10.5	-6.4	7.4	-4.6	.8	-4.6	-19.3	-12.0	8.5	-.7	3.9
12	-1.0	-12.1	-6.2	6.4	-3.5	.0	-7.1	-19.3	-13.6	8.1	-.7	4.1
13	-8.3	-18.3	-13.7	3.9	-6.8	-2.0	-2.8	-20.7	-11.6	9.5	.7	5.5
14	-2.8	-15.7	-10.1	-.7	-9.0	-4.3	.4	-12.9	-4.6	9.5	.7	5.4
15	-2.1	-9.4	-7.0	4.2	-5.7	-.9	3.5	-5.3	-1.6	11.7	1.8	6.8
16	3.5	-9.0	-2.1	4.6	-4.9	.0	6.0	-6.8	-.7	10.6	2.8	5.9
17	-1.4	-5.3	-2.8	1.1	-5.3	-2.3	5.7	-3.8	.9	11.7	3.9	6.8
18	-1.4	-10.9	-5.0	3.2	-10.1	-3.9	5.7	-3.1	1.4	10.2	3.2	6.5
19	.7	-11.3	-6.0	8.1	-5.3	.4	6.7	-2.1	2.5	8.5	1.1	4.3
20	-4.6	-14.9	-8.7	9.5	-2.1	3.4	7.1	-2.1	2.7	8.1	1.1	3.7
21	-10.9	-19.3	-15.6	9.2	-2.8	2.7	3.5	-4.2	.4	5.7	.0	2.2
22	-7.1	-18.3	-13.2	7.8	-1.7	2.4	1.1	-3.5	-1.9	3.9	.0	1.2
23	-7.9	-15.7	-11.8	6.7	-2.8	1.1	1.1	-4.9	-2.0	8.8	-1.4	3.1
24	-4.9	-15.3	-11.2	-1.0	-11.7	-6.1	-.7	-11.3	-5.8	3.9	-4.2	1.5
25	-1.7	-15.7	-10.4	-.7	-17.9	-8.3	1.8	-9.0	-3.2	2.1	-4.2	-1.3
26	-6.8	-17.4	-12.1	4.6	-8.3	-1.7	2.1	-5.7	-2.1	.7	-7.5	-2.5
27	-6.4	-12.5	-10.3	2.8	-4.6	-1.3	8.8	-7.1	1.3	4.9	-6.0	.4
28	-8.6	-17.4	-11.2	3.9	-4.9	-.4	4.2	-1.4	.8	8.1	-1.4	3.7
29	---	---	---	-2.8	-9.8	-7.0	2.1	-6.4	-1.3	8.8	3.5	6.3
30	---	---	---	5.7	-7.9	-1.4	2.8	-10.5	-3.3	12.8	4.2	8.1
31	---	---	---	1.8	-4.9	-1.9	---	---	---	14.3	4.2	9.5
MONTH	3.5	-19.3	-9.1	9.5	-22.6	-3.3	8.8	-20.7	-3.9	14.3	-14.5	3.4
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.5	6.4	10.7	14.3	3.5	9.6	14.6	4.6	10.1	11.7	3.5	8.2
2	13.9	4.9	9.0	18.1	4.9	11.4	16.1	7.4	10.9	16.5	6.4	11.3
3	15.4	4.2	9.0	15.8	1.4	8.9	14.6	7.8	11.1	15.4	6.0	10.8
4	15.0	4.2	9.6	15.4	2.8	9.8	14.6	7.8	10.5	13.1	4.9	7.6
5	13.9	3.9	9.0	15.4	5.3	11.0	11.7	6.0	8.4	15.0	4.9	9.1
6	13.1	2.8	6.7	16.5	7.1	10.9	11.3	3.9	7.0	13.1	3.5	7.2
7	8.1	2.1	4.9	15.8	6.0	10.4	9.5	3.9	7.4	14.3	3.2	8.4
8	5.7	.0	2.3	15.8	6.4	10.7	15.0	4.2	9.8	14.3	6.0	9.4
9	4.9	-.3	2.2	15.0	5.7	10.0	15.4	6.0	9.7	10.6	4.9	7.8
10	9.2	1.8	4.9	15.8	6.0	10.8	10.2	2.8	6.4	12.1	4.9	7.5
11	10.6	.4	6.6	10.2	7.4	8.9	10.2	2.8	6.1	11.7	2.8	7.0
12	9.9	2.1	6.2	15.0	6.7	10.1	13.9	2.8	7.9	11.7	2.8	7.0
13	8.5	.4	4.8	15.0	2.1	8.9	12.4	4.2	7.5	13.1	3.9	7.1
14	9.9	3.2	6.4	17.7	6.4	12.0	12.4	3.9	8.3	12.1	3.9	6.9
15	8.5	.0	3.7	18.9	6.4	13.3	14.3	4.9	9.6	8.8	3.5	6.4
16	8.8	1.1	4.7	18.1	9.5	13.6	14.3	6.7	10.5	10.6	3.2	6.9
17	12.1	3.9	7.2	18.1	7.8	13.2	15.8	5.7	10.8	12.4	1.4	7.8
18	15.4	4.6	9.5	17.3	7.1	10.4	11.0	4.6	7.3	12.8	6.0	9.4
19	15.8	7.1	11.0	12.8	4.6	9.0	15.8	4.6	8.5	11.0	5.7	8.6
20	16.9	6.7	11.3	14.3	4.2	9.2	15.0	5.3	9.9	12.1	5.3	8.7
21	15.8	6.7	11.2	13.9	6.4	10.8	16.1	7.1	11.3	7.8	.7	4.2
22	16.9	6.0	11.6	14.3	7.1	9.9	15.0	6.4	10.1	4.2	.0	2.0
23	15.4	5.3	10.6	13.5	6.4	9.3	16.1	6.4	10.5	7.1	-1.7	2.3
24	13.5	4.9	8.8	14.6	4.6	10.2	15.0	6.4	10.8	10.2	-1.0	4.6
25	13.9	4.6	9.6	17.3	6.7	12.4	15.4	7.1	9.5	13.5	2.1	7.5
26	14.6	4.9	9.3	17.3	6.7	11.0	13.5	6.0	8.8	10.2	6.0	7.7
27	14.3	5.7	8.9	12.4	6.7	8.5	15.8	5.3	10.4	10.6	1.8	5.6
28	13.5	5.3	9.4	11.0	6.0	8.6	15.8	6.7	10.8	12.1	.7	6.0
29	15.4	3.5	9.9	11.0	6.0	8.2	14.6	6.4	9.1	14.3	3.2	7.8
30	15.4	5.3	11.1	10.6	6.4	8.1	13.5	4.9	7.5	14.3	2.8	7.4
31	---	---	---	11.0	6.7	8.6	9.9	5.7	7.5	---	---	---
MONTH	16.9	-.3	8.0	18.9	1.4	10.2	16.1	2.8	9.2	16.5	-1.7	7.3
YEAR	18.9	-31.7	.0									

375852107455200 GOVERNOR BASIN METEOROLOGICAL STATION NEAR TELLURIDE, CO--Continued

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.0	.0	.0	.3	.6	.1	.0	.0	.0	.0	.0	.1
2	.6	.0	.2	1.1	.0	.0	.0	.0	.0	.0	.1	.0
3	2.7	.3	.0	1.0	.1	.0	.0	.0	.0	.0	.0	.0
4	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	.5
5	.0	.0	.5	.1	.1	.0	.0	.0	.0	.0	.4	.0
6	.0	.2	.6	.1	.1	.0	.0	.0	.0	.0	.4	.4
7	.0	.0	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0
8	.0	.0	.6	.1	.3	.0	.0	.0	.0	.0	.1	.0
9	.0	.0	.5	.1	.6	.1	.0	.0	.0	.0	.1	.1
10	.0	.0	.6	.1	.5	.1	.0	.0	.0	.0	1.5	.1
11	.0	.0	.2	.3	.6	.1	.0	.0	.0	.0	.2	.8
12	.0	.0	.9	.0	.6	.0	.0	.0	.0	.0	.0	.3
13	.0	.0	.6	.0	.5	.0	.0	.0	.2	.0	.3	.4
14	.1	.1	.1	.0	.5	.0	.0	.0	.1	.0	.1	.1
15	.0	.5	.1	.0	.5	.0	.0	.0	.0	.0	.0	1.0
16	.1	.4	.5	.1	.3	.0	.0	.0	.3	.0	.0	.0
17	.0	.8	.0	.2	.0	.1	.0	.0	.0	.0	.0	.3
18	.0	.1	.0	.7	.5	.0	.0	.0	.0	.0	.3	.1
19	.5	.0	.1	.4	.0	.0	.0	.0	.0	.3	.3	.2
20	.3	.0	.2	.5	.4	.0	.0	.0	.0	.0	.1	.1
21	.2	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.7
22	.0	.4	.3	.2	.2	.0	.0	.0	.0	.2	.2	.2
23	.0	.6	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0
24	.1	.0	.1	.1	.0	.3	.0	.0	.0	.0	.0	.0
25	.6	.0	.1	.1	.0	.0	.0	.0	.0	.0	.4	.0
26	.1	.2	.3	.0	.1	.0	.0	.0	.0	.2	.6	.4
27	.6	.1	.0	.0	.0	.0	.0	.0	.1	.7	.0	.0
28	1.0	.0	.1	.0	.0	.0	.0	.0	.0	.3	.0	.0
29	.1	.3	1.0	.0	---	.0	.0	.0	.0	.0	.0	.0
30	.0	.1	.8	.1	---	.0	.0	.0	.0	.3	.4	.0
31	.0	---	.5	.2	---	.0	---	.0	---	.0	.3	---
TOTAL	7.1	4.1	9.5	6.2	6.8	0.8	0.0	0.0	0.7	2.3	6.1	5.8

WTR YR 1997 TOTAL 49.4

380102107402200 OURAY METEOROLOGICAL STATION AT OURAY, CO

LOCATION.--Lat 38°01'02", long 107°40'22", in SW1/4 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.

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	20.5	7.1	13.4	3.5	-5.3	-1.9	3.5	-11.7	-3.8	7.4	-2.1	1.9
2	20.9	6.7	13.9	10.2	-4.2	2.3	-2.8	-12.1	-7.2	9.5	-.7	3.5
3	6.7	1.8	4.2	7.1	-.7	2.9	.0	-13.3	-6.1	11.0	-3.5	1.3
4	13.1	2.8	7.8	7.1	-1.0	1.7	.0	-10.5	-6.3	-2.8	-9.8	-5.8
5	16.5	3.9	9.2	7.8	-2.8	4.0	6.0	-6.4	2.3	-4.6	-9.8	-7.8
6	18.9	4.6	10.6	-2.1	-9.0	-5.0	3.2	-6.0	-2.1	-9.4	-15.7	-11.5
7	18.5	5.7	11.0	.7	-9.8	-5.2	2.5	-6.4	-2.9	-4.2	-17.4	-11.6
8	20.5	6.7	11.9	6.4	-6.4	-.9	7.4	-4.6	1.4	-6.4	-14.9	-10.3
9	20.9	8.1	13.1	9.9	-2.1	2.4	11.7	-1.0	6.0	-2.8	-10.1	-6.3
10	21.3	8.5	13.7	13.9	.4	5.1	7.1	-.7	2.3	2.1	-5.3	-3.4
11	22.1	9.2	14.3	15.4	1.4	5.6	6.4	-.7	1.8	-1.4	-6.0	-4.0
12	20.9	8.1	13.7	13.5	1.8	6.1	7.1	-2.8	1.6	-.3	-5.3	-3.2
13	19.7	7.1	12.9	14.3	3.2	8.2	6.7	-2.4	1.9	-1.7	-4.2	-3.2
14	15.0	6.7	10.5	11.0	1.4	7.1	.0	-10.9	-5.6	-3.8	-10.1	-6.5
15	17.3	3.5	9.8	3.9	-4.2	.6	-5.7	-15.3	-10.0	-2.8	-14.1	-9.7
16	12.4	.7	7.4	-3.1	-11.3	-6.2	1.1	-11.7	-4.0	.4	-12.1	-8.3
17	5.3	-2.8	.4	1.8	-10.5	-3.6	-11.7	-24.1	-17.3	1.4	-12.5	-6.6
18	16.1	-3.1	6.9	9.2	.0	3.7	-10.9	-24.1	-16.9	4.9	-8.3	-3.0
19	12.4	-.7	8.4	13.5	2.1	7.5	-5.7	-14.1	-10.9	7.4	-6.8	-.7
20	-.7	-6.8	-3.9	11.3	1.4	6.6	.7	-12.1	-4.9	4.9	-3.5	.9
21	-5.7	-9.0	-7.3	11.7	1.4	7.1	2.5	-3.8	.0	1.4	-8.6	-3.6
22	3.5	-11.7	-4.4	7.1	-.3	4.9	1.4	-4.2	-1.1	-.7	-8.6	-3.6
23	8.1	-3.8	.9	-.3	-3.1	-1.1	-4.2	-12.1	-7.0	.7	-2.8	-1.5
24	10.6	-3.1	3.1	.7	-6.8	-3.3	.0	-13.3	-7.9	.0	-9.4	-4.0
25	4.6	-4.9	.8	4.2	-4.6	-.9	4.2	-8.6	-2.2	2.8	-7.1	-.6
26	.4	-9.8	-4.7	.4	-5.3	-2.8	6.4	-4.6	.8	2.1	-3.5	-.8
27	3.9	-5.7	-.9	-1.7	-8.6	-5.6	4.2	-1.4	.7	.7	-6.8	-2.3
28	2.8	-3.5	.7	5.3	-9.8	-2.7	3.9	-5.3	-1.3	2.8	-10.1	-3.8
29	4.2	-5.7	-1.6	-.7	-4.6	-2.8	6.7	-5.7	-1.1	1.1	-7.5	-3.5
30	8.5	-3.8	1.7	-4.6	-12.5	-8.0	7.1	-2.4	1.4	3.5	-9.8	-3.3
31	4.9	-3.8	2.3	---	---	---	8.5	-1.7	2.1	10.6	-3.5	2.2
MONTH	22.1	-11.7	5.8	15.4	-12.5	.9	11.7	-24.1	-3.1	11.0	-17.4	-3.8

380102107402200 OURAY METEOROLOGICAL STATION AT OURAY, CO--Continued

TEMPERATURE, AIR, (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.1	-2.4	1.2	-1.7	-12.5	-7.9	3.2	-3.8	-1.6	9.5	-2.8	3.4
2	4.9	-2.4	.9	9.9	-9.0	.2	6.7	-4.2	.8	7.8	-4.6	1.6
3	-.7	-7.5	-3.8	5.7	-6.0	.8	10.2	-.7	3.9	16.9	2.5	8.7
4	3.9	-7.9	-1.9	-6.0	-12.5	-8.9	2.5	-2.8	-.3	18.9	5.3	12.2
5	4.2	-5.3	-.4	1.8	-14.9	-6.7	-2.8	-10.5	-6.0	18.9	5.7	12.0
6	-3.1	-9.4	-5.7	6.4	-6.4	-.7	.0	-11.7	-6.2	18.9	7.4	12.7
7	-4.6	-14.5	-10.2	8.1	-4.6	.7	6.0	-7.9	-1.5	15.8	5.7	11.0
8	.4	-12.5	-7.8	10.6	-1.0	4.0	7.4	-4.2	1.5	15.4	4.9	9.3
9	1.8	-10.1	-5.5	7.4	-4.9	.8	6.4	.4	2.6	11.7	6.0	9.2
10	4.2	-9.0	-3.8	11.0	-2.4	2.9	2.8	-6.8	-1.2	17.7	3.2	10.0
11	6.0	-4.9	-1.2	12.4	1.4	6.6	-4.9	-11.3	-7.8	16.9	5.3	10.9
12	4.9	-7.1	-1.7	12.1	2.1	6.6	-2.8	-14.9	-8.0	16.9	7.4	11.4
13	-4.6	-11.3	-8.2	9.2	-2.4	4.3	2.5	-13.3	-5.5	20.5	6.0	12.4
14	3.5	-13.3	-5.5	8.1	-3.8	1.9	8.1	-7.1	.2	18.9	6.7	12.5
15	3.5	-5.3	-1.6	10.2	.4	4.9	11.0	-.3	4.7	20.9	7.4	13.9
16	7.4	-5.3	1.6	11.7	1.4	7.0	14.3	.0	6.3	21.3	8.5	14.2
17	6.7	1.1	3.9	8.8	-.3	4.9	14.3	2.5	8.6	21.3	9.9	14.6
18	6.0	-3.8	1.4	8.8	-3.1	2.3	15.0	2.8	8.7	19.3	7.4	13.8
19	6.0	-9.0	-2.1	12.8	.0	5.5	15.0	4.9	9.6	17.3	8.5	11.9
20	.0	-8.3	-4.0	16.9	2.1	8.1	14.6	2.8	8.8	14.6	8.1	11.2
21	-3.5	-11.3	-8.4	15.0	3.5	8.7	9.2	.7	5.5	12.1	6.4	9.1
22	-1.4	-13.7	-7.8	14.6	2.1	8.3	7.4	-.3	2.9	7.8	4.9	6.5
23	-6.0	-10.5	-7.4	15.0	3.2	8.5	7.4	.4	3.6	15.8	3.2	9.0
24	-7.1	-12.1	-9.2	4.6	-6.4	-.3	4.6	-2.1	.1	11.7	2.1	8.2
25	-2.1	-10.1	-6.4	6.4	-9.8	-3.3	8.8	-2.8	2.8	11.0	-.7	4.3
26	.4	-12.1	-6.3	10.6	-4.9	2.8	9.9	1.4	5.2	7.4	-1.4	3.0
27	.4	-7.9	-3.2	10.6	-.7	5.6	15.8	-.7	7.3	13.5	.7	7.1
28	-1.0	-12.1	-4.9	12.8	-1.7	5.4	12.8	3.5	7.4	15.0	3.2	9.3
29	---	---	---	1.8	-5.7	-2.1	10.6	.7	6.9	18.1	7.1	12.7
30	---	---	---	12.1	-5.7	2.8	11.3	-2.1	4.7	20.1	8.5	14.2
31	---	---	---	9.9	-.3	5.1	---	---	---	24.2	9.9	16.8
MONTH	7.4	-14.5	-3.9	16.9	-14.9	2.5	15.8	-14.9	2.1	24.2	-4.6	10.2
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.5	13.1	19.4	22.1	11.0	17.2	24.6	10.6	17.0	18.5	9.2	14.5
2	23.3	10.2	17.1	27.3	9.9	19.2	24.6	13.5	18.3	26.0	9.5	17.3
3	24.6	7.1	16.3	22.1	7.4	15.0	23.3	14.6	17.9	24.2	12.8	17.3
4	24.2	13.5	18.5	23.8	8.5	16.8	20.5	13.1	16.6	17.7	9.5	13.3
5	23.3	11.3	17.5	25.1	12.4	18.5	16.9	11.0	13.6	22.5	8.8	14.8
6	20.9	10.2	14.4	25.5	15.0	19.4	19.3	8.8	12.5	19.7	8.8	12.7
7	15.8	7.8	11.6	22.9	13.9	18.1	18.9	7.1	12.7	22.1	7.1	14.0
8	11.3	4.9	7.9	24.6	13.9	18.8	23.8	8.8	16.0	22.9	9.5	15.7
9	12.4	4.6	7.7	23.8	13.9	18.4	21.7	9.9	15.9	18.9	9.9	13.8
10	19.7	8.1	11.5	23.3	15.4	19.4	18.1	9.2	12.0	18.5	11.3	14.4
11	20.5	6.0	10.6	19.7	15.0	17.4	18.1	7.8	12.3	19.7	9.5	13.9
12	19.7	8.5	14.0	25.1	12.8	18.0	21.3	8.1	13.7	20.5	8.1	13.2
13	18.1	4.6	12.3	24.2	8.5	16.4	18.9	9.2	13.0	20.5	10.2	13.1
14	17.7	9.2	13.3	27.3	10.6	19.0	19.7	9.2	14.5	18.9	10.6	13.9
15	15.8	5.7	10.4	28.7	14.3	21.3	22.5	10.6	16.7	18.1	9.2	12.5
16	18.5	6.7	12.3	29.7	16.9	21.9	22.5	14.6	18.4	17.7	8.1	12.4
17	20.5	8.8	14.6	27.3	16.9	21.5	23.8	12.4	18.0	20.5	8.1	13.9
18	22.9	9.9	16.1	22.9	14.3	17.7	20.1	11.0	15.2	22.1	11.0	16.4
19	25.5	11.3	19.0	21.3	11.0	16.2	22.9	11.3	15.8	20.1	9.9	14.4
20	25.5	11.7	18.9	23.8	9.2	16.6	24.6	11.7	17.5	20.1	8.8	13.2
21	26.0	12.4	19.2	22.5	13.5	18.8	25.1	12.1	18.1	15.4	6.7	10.1
22	26.4	12.8	20.4	25.1	13.5	18.0	23.3	12.8	17.5	10.2	5.3	7.6
23	24.6	12.1	18.3	21.7	11.0	15.1	24.2	12.8	18.0	13.5	1.4	7.1
24	23.3	9.9	16.5	23.8	9.5	16.7	21.7	12.1	17.5	16.9	3.2	9.2
25	22.5	10.2	16.0	26.4	14.3	20.1	23.8	12.1	15.9	19.7	6.0	12.3
26	23.3	11.7	17.3	26.0	12.4	17.6	19.7	9.5	14.2	19.3	11.0	13.9
27	23.3	12.1	17.3	20.5	11.0	14.6	23.3	8.8	15.9	17.7	7.4	12.1
28	24.2	13.1	18.6	19.7	11.3	15.5	24.6	13.1	18.1	17.3	4.2	10.2
29	23.3	11.0	17.9	20.1	11.3	15.5	22.5	12.4	15.6	20.5	7.4	12.8
30	24.6	12.4	19.2	17.3	11.0	13.4	22.9	10.6	14.0	21.3	8.1	13.1
31	---	---	---	18.9	11.3	14.1	18.1	11.0	14.3	---	---	---
MONTH	26.4	4.6	15.5	29.7	7.4	17.6	25.1	7.1	15.7	26.0	1.4	13.1
YEAR	29.7	-24.1	6.1									

380102107402200 OURAY METEOROLOGICAL STATION AT OURAY, CO--Continued

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0
2	.5	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
3	2.2	.1	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0
4	.0	.0	.0	.2	.0	.2	.8	.0	.0	.0	.0	.3
5	.0	.0	.1	.1	.3	.0	.2	.0	.0	.0	.4	.0
6	.0	.2	.5	.1	.6	.0	.0	.0	.0	.0	.1	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
9	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
10	.0	.0	.3	.1	.0	.0	.3	.0	.0	.0	.3	.1
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4
12	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.1
13	.0	.0	.0	.0	.1	.0	.0	.0	.2	.0	.2	.1
14	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0
15	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
16	.0	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0	.0
19	.3	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.1
20	.5	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.1
21	.2	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.3
22	.0	.2	.2	.0	.0	.0	.0	.0	.0	.1	.0	.1
23	.0	.5	.1	.0	.3	.0	.0	.0	.0	.1	.0	.0
24	.0	.0	.0	.0	.2	.7	.0	.0	.0	.0	.0	.0
25	.3	.0	.0	.6	.1	.0	.1	.0	.0	.0	.4	.0
26	.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.3	.1
27	.3	.1	.1	.3	.0	.0	.0	.0	.0	.1	.0	.1
28	.7	.0	.1	.0	.2	.0	.0	.0	.0	.1	.0	.0
29	.0	.5	.0	.0	---	.6	.0	.0	.0	.0	.0	.0
30	.0	.2	.0	.0	---	.0	.0	.0	.0	.2	.1	.0
31	.0	---	.0	.0	---	.2	---	.0	---	.0	.1	---
TOTAL	5.0	3.0	1.8	3.2	2.8	1.7	1.9	0.0	0.3	0.7	2.0	2.6

WTR YR 1997 TOTAL 25.0

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.

TEMPERATURE, AIR, (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	15.0	.4	7.1	1.4	-10.1	-6.0	.4	-17.9	-8.9	5.3	-9.0	-3.4
2	18.1	2.1	7.8	8.8	-10.9	-4.1	-6.0	-19.7	-12.3	9.2	-6.4	-.6
3	4.9	-.3	1.4	1.4	-4.2	-1.7	-2.1	-20.2	-11.1	5.7	-7.1	-.7
4	9.2	-.7	2.5	2.8	-4.2	-1.5	-3.5	-18.3	-10.1	-4.2	-14.5	-9.5
5	12.4	-.7	3.4	3.2	-4.6	-.5	2.1	-3.5	-.3	-6.8	-14.5	-11.0
6	15.8	-1.4	4.8	-4.6	-14.1	-7.9	-1.4	-8.3	-4.5	-11.3	-21.1	-14.3
7	15.8	-.7	5.3	-.3	-16.2	-10.7	1.8	-10.1	-6.4	-.7	-23.1	-14.5
8	17.3	.4	6.0	7.8	-12.5	-5.6	5.7	-10.1	-4.9	-6.8	-18.8	-13.0
9	18.9	1.1	7.0	7.8	-9.8	-3.9	7.4	-4.6	2.1	-4.9	-13.7	-9.0
10	18.1	.4	6.8	12.1	-7.1	-2.2	3.9	-2.1	.2	-.7	-9.0	-5.9
11	19.3	1.1	7.3	13.1	-7.9	-2.1	2.8	-1.7	-.2	-3.5	-9.0	-6.9
12	17.7	.7	7.0	12.8	-6.4	-.9	4.9	-7.1	-2.3	-4.6	-7.9	-6.2
13	16.9	-1.0	6.6	11.3	-4.6	.8	5.7	-9.4	-3.0	-3.1	-7.1	-5.4
14	11.3	-.3	6.2	5.7	-2.1	2.6	1.4	-16.2	-7.8	-7.1	-16.6	-9.3
15	13.1	-2.4	4.3	1.4	-5.3	-1.5	-8.3	-21.6	-15.6	-3.1	-20.2	-14.5
16	7.8	-2.4	4.5	-4.6	-11.3	-8.2	-1.7	-14.5	-6.3	.7	-19.3	-13.9
17	1.8	-6.8	-3.2	.0	-9.8	-4.3	-14.5	-29.2	-21.4	1.8	-17.9	-11.2
18	13.9	-7.1	2.5	8.8	.0	4.5	-14.1	-29.8	-22.6	6.0	-12.9	-6.2
19	8.1	-2.1	4.9	14.3	.7	5.6	-6.4	-19.7	-14.5	10.2	-10.5	-4.9
20	-2.1	-9.8	-5.4	9.5	-4.9	2.7	.0	-19.7	-8.4	3.2	-9.8	-3.9
21	-7.9	-12.9	-9.9	8.8	-5.7	.6	-1.0	-4.9	-2.8	-2.4	-8.6	-6.6
22	2.5	-14.5	-7.3	3.2	-2.1	.9	-1.0	-7.5	-3.6	-1.7	-9.0	-6.2
23	5.3	-7.9	-2.8	-1.7	-7.5	-3.2	-6.8	-17.9	-10.6	-2.8	-8.3	-4.5
24	7.8	-9.0	-1.5	.7	-11.3	-7.0	-1.7	-20.2	-14.0	-2.8	-11.3	-6.7
25	1.8	-8.3	-1.6	2.5	-9.0	-4.6	1.4	-14.5	-7.6	1.1	-10.1	-3.0
26	-1.7	-14.9	-8.7	-1.7	-10.5	-5.9	4.2	-7.9	-1.7	-1.0	-6.8	-2.9
27	-.3	-9.4	-3.7	-1.7	-14.1	-9.5	-1.0	-3.8	-2.2	-.7	-11.7	-5.5
28	.7	-7.5	-1.6	4.2	-14.9	-8.5	1.4	-12.1	-5.0	1.4	-16.6	-8.8
29	1.8	-8.6	-5.0	-3.1	-7.1	-5.6	4.6	-12.5	-6.3	-4.2	-12.5	-7.8
30	6.7	-8.3	-3.1	-6.8	-17.4	-11.0	4.9	-7.1	-2.3	6.0	-14.9	-7.9
31	1.1	-7.1	-2.1	---	---	---	6.4	-6.0	-2.1	7.1	-8.6	-1.9
MONTH	19.3	-14.9	1.3	14.3	-17.4	-3.3	7.4	-29.8	-7.0	10.2	-23.1	-7.3

380251107513000 WEST FORK DALLAS CREEK METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

TEMPERATURE, AIR, (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.8	-7.9	-2.0	-4.2	-17.4	-12.4	1.1	-5.3	-2.8	5.3	-5.3	1.1
2	2.1	-9.0	-3.7	6.7	-15.7	-4.8	4.6	-4.6	-1.2	5.3	-10.5	-1.9
3	-1.7	-13.3	-8.0	1.8	-6.4	-2.7	3.9	-2.1	.4	12.1	-1.7	4.5
4	1.1	-14.1	-6.3	-3.5	-18.8	-10.9	1.8	-5.3	-1.8	15.4	-1.4	6.9
5	1.4	-7.5	-3.8	.4	-22.1	-12.1	-5.3	-11.7	-8.7	15.0	-1.0	6.0
6	-4.9	-11.7	-7.9	6.0	-15.7	-6.6	-4.2	-13.7	-8.9	15.0	.4	5.5
7	-3.5	-20.7	-13.7	6.4	-12.9	-5.0	2.5	-12.5	-4.0	13.1	.0	5.6
8	.0	-18.8	-12.8	7.4	-6.8	-.6	4.2	-10.1	-2.9	11.7	-.7	4.4
9	.0	-16.6	-11.1	6.0	-11.3	-3.4	4.2	-2.1	.4	9.9	-1.4	2.8
10	1.1	-16.6	-9.3	8.8	-9.0	-2.3	.4	-9.0	-3.2	13.9	-3.1	4.4
11	4.9	-11.7	-5.2	12.1	-7.9	.1	-6.4	-13.7	-9.7	14.3	-1.4	5.3
12	5.3	-14.1	-6.6	10.6	-3.8	2.1	-4.9	-22.1	-12.1	13.1	.0	5.6
13	-7.1	-18.8	-11.8	7.4	-4.9	2.1	.0	-21.1	-10.6	16.5	-.7	6.6
14	1.8	-18.8	-11.0	5.3	-6.0	.4	4.6	-15.3	-5.0	15.8	-.3	6.6
15	2.8	-13.3	-6.1	8.8	-3.8	2.9	6.0	-6.0	.0	17.3	.0	7.2
16	7.4	-12.9	-4.6	11.3	-.7	4.4	11.3	-6.8	1.3	15.8	.0	6.3
17	3.2	-3.5	1.0	7.1	-3.5	2.1	11.3	-4.2	2.1	18.1	.4	8.0
18	4.2	-8.3	-1.2	7.1	-6.8	-1.2	11.0	-3.1	3.0	15.4	1.1	7.9
19	5.3	-13.3	-5.5	10.6	-5.7	.8	12.4	-2.4	4.2	12.4	2.1	7.0
20	-1.0	-10.9	-7.4	15.4	-5.3	2.4	10.6	-2.8	3.9	12.4	.4	5.8
21	-4.2	-18.3	-12.5	13.9	-2.4	4.4	8.1	-1.7	3.1	8.1	2.1	4.5
22	-3.1	-21.6	-12.9	12.1	-4.2	2.8	5.3	-2.1	.9	7.8	1.4	3.4
23	-6.4	-14.1	-10.1	12.4	-1.4	4.2	4.2	-3.8	-.1	11.3	-.7	4.9
24	-7.5	-14.9	-11.6	1.8	-8.3	-2.5	-.3	-6.0	-3.1	10.2	-1.0	4.7
25	-3.1	-14.9	-8.7	.4	-12.5	-6.7	5.3	-8.3	-1.8	7.1	-1.7	1.5
26	-2.1	-19.3	-10.4	8.5	-10.5	-1.9	5.7	-2.8	1.1	4.6	-5.3	-.3
27	-3.5	-11.7	-6.6	8.1	-3.8	2.3	12.1	-6.0	2.6	9.9	-3.1	3.0
28	-4.2	-16.6	-8.1	9.2	-6.8	2.0	9.5	.0	3.9	13.9	-1.4	5.6
29	---	---	---	-.7	-10.5	-4.5	6.4	-3.1	2.8	14.6	2.8	8.6
30	---	---	---	9.9	-10.5	-1.5	6.7	-7.5	.6	17.3	2.1	9.3
31	---	---	---	8.5	-2.8	2.0	---	---	---	19.7	2.1	10.4
MONTH	7.8	-21.6	-7.8	15.4	-22.1	-1.4	12.4	-22.1	-1.5	19.7	-10.5	5.2
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.8	3.9	13.1	18.9	2.8	13.1	19.7	5.7	12.0	15.8	6.0	10.3
2	20.1	3.5	11.6	24.2	2.8	14.4	20.1	7.1	13.4	21.3	4.9	11.6
3	21.7	1.8	11.1	18.9	.7	10.0	18.5	9.2	12.5	18.9	5.7	11.0
4	20.9	2.8	11.5	20.9	1.1	10.6	17.3	8.8	11.7	15.0	5.3	8.9
5	20.5	2.1	11.1	21.7	2.5	11.7	15.0	7.4	10.9	18.5	4.2	9.5
6	17.3	2.8	9.2	22.9	4.2	12.2	13.5	5.3	9.1	13.5	4.6	8.2
7	12.1	2.8	7.1	18.5	6.0	12.4	16.9	3.2	9.1	19.3	3.2	8.5
8	7.4	1.4	4.1	19.7	5.7	11.4	20.1	4.2	11.4	18.9	3.5	9.8
9	8.5	2.5	5.0	20.1	3.9	11.6	18.9	5.7	10.2	15.0	4.6	9.5
10	14.3	3.9	7.7	20.5	6.0	12.5	12.8	3.2	8.1	15.4	5.7	9.0
11	12.1	1.8	9.0	16.5	8.8	12.8	15.0	2.8	7.8	14.3	4.6	8.4
12	16.9	6.0	10.1	20.1	8.5	14.4	17.7	1.8	8.4	15.8	3.9	8.5
13	15.8	2.8	9.1	20.5	4.2	11.8	11.7	4.6	8.0	15.8	3.2	8.0
14	14.6	1.4	8.4	23.3	3.2	12.8	17.3	5.3	10.3	15.0	4.6	8.3
15	13.1	.0	6.1	24.6	5.3	14.5	19.3	4.6	11.6	15.4	4.6	8.3
16	14.3	1.4	7.9	22.9	7.4	14.2	19.7	7.4	14.1	14.6	3.9	9.2
17	17.3	3.5	10.1	21.3	7.1	14.4	20.1	6.7	12.8	18.1	.7	8.6
18	19.7	3.5	11.3	19.3	6.7	12.1	18.5	7.1	12.4	17.3	8.8	12.4
19	20.9	5.7	13.8	18.5	7.8	12.2	19.3	4.9	10.6	15.4	7.4	11.0
20	21.7	9.9	15.7	20.1	5.3	11.8	21.3	5.3	12.0	14.6	6.7	10.5
21	22.5	6.4	14.3	19.7	6.0	12.8	21.3	5.3	12.4	12.8	3.9	7.1
22	22.9	4.2	13.6	18.5	7.8	11.3	18.9	9.2	13.0	8.5	1.8	4.4
23	20.1	4.6	12.8	16.9	7.4	11.2	18.5	7.1	12.1	8.8	-1.0	3.8
24	19.3	3.9	12.0	20.1	4.6	11.9	18.5	6.0	11.9	15.0	-1.0	5.1
25	19.7	2.1	11.2	22.1	5.3	13.9	19.3	6.7	10.3	16.5	1.1	7.7
26	20.1	4.6	11.0	20.9	8.8	13.0	15.0	6.4	10.2	18.5	6.7	10.3
27	20.1	5.7	12.4	15.4	8.5	10.9	18.1	4.9	10.2	15.0	1.8	8.5
28	20.1	6.0	13.2	13.5	8.1	10.5	20.9	6.0	12.1	15.4	.4	6.0
29	20.9	4.9	13.5	14.6	7.4	10.1	17.7	6.0	10.4	19.7	.7	7.4
30	21.7	7.1	16.0	12.8	8.5	10.2	16.1	4.9	8.6	18.1	1.1	7.2
31	---	---	---	14.3	8.5	11.0	16.1	5.7	10.1	---	---	---
MONTH	23.8	.0	10.8	24.6	.7	12.2	21.3	1.8	10.9	21.3	-1.0	8.6
YEAR	24.6	-29.8	1.8									

380251107513000 WEST FORK DALLAS CREEK METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.0	.2	.3	.0	.0	1.2	.1	.0	.1	.0	.0	.0
2	.6	.0	.2	.0	.0	1.2	.1	.0	.0	.0	.0	.0
3	2.8	.3	.3	.9	.0	.8	.0	.0	.0	.0	.4	.0
4	.0	.0	.1	.0	.0	.4	.0	.0	.0	.0	.1	1.3
5	.0	.0	.3	.2	.2	.2	.0	.0	.0	.0	.3	.0
6	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.2	.3
7	.0	.0	.6	.0	.7	.0	.0	.0	.0	.0	.0	.0
8	.0	.0	.5	.0	.7	.0	.0	.0	.0	.0	.0	.0
9	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.9	.1
10	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	1.4	.2
11	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.1	.7
12	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	.2
13	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0	.2	.2
14	.0	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0
15	.0	.3	.0	.1	.0	.0	.0	.0	.1	.0	.0	1.1
16	.1	.4	.2	.6	.0	.0	.1	.1	.0	.0	.0	.0
17	.0	.3	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.2
18	.0	.0	.0	.6	.1	.0	.0	.0	.1	.0	.0	.1
19	.2	.0	.0	.6	.0	.0	.0	.0	.0	.3	.0	.2
20	.3	.0	.1	.4	.4	.0	.0	.0	.0	.0	.0	.2
21	.2	.0	.1	.1	.8	.0	.0	.0	.0	.0	.0	.6
22	.0	.5	.2	.0	.5	.0	.0	.0	.0	.3	.2	.3
23	.0	.3	.2	.2	.1	.0	.0	.0	.0	.1	.0	.0
24	.1	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0
25	.4	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	.0
26	.0	.3	.1	.2	.1	.0	.0	.0	.0	.1	.5	.2
27	.3	.1	.3	.4	.0	.0	.0	.0	.0	.4	.0	.1
28	.7	.1	.1	.6	.0	.0	.0	.0	.0	.1	.0	.0
29	.0	.9	.0	.0	---	.3	.0	.0	.0	.2	.0	.0
30	.0	.3	.0	.5	---	.0	.0	.0	.0	.3	.1	.0
31	.0	---	.0	.0	---	.2	---	.0	---	.1	.1	---
TOTAL	5.7	4.1	4.5	6.7	5.4	4.9	0.3	0.1	0.4	1.9	5.1	6.0

WTR YR TOTAL 45.1

380324107444500 WHITEHOUSE CREEK METEOROLOGICAL STATION NEAR OURAY, CO

LOCATION.--Lat 38°03'24", long 107°44'45", in NW1/4NW1/4 sec.21, T.44 N, R.8 W., Ouray County, Hydrologic Unit 14020006, 3.0 mi north of Whitehouse Mountain, and 4.7 mi northwest of Ouray.

PERIOD OF RECORD.--October 1992 to current year.

GAGE.--Weighing-bucket rain gage with satellite telemetry. Elevation of gage is 9,480 ft above sea level, from topographic map.

REMARKS.--Unpublished air-temperature and rainfall data for water year 1993 are available in district office. Daily record for air temperature is good. Daily record for precipitation is good

TEMPERATURE, AIR, (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.5	2.5	8.5	3.5	-10.9	-5.0	4.2	-16.6	-6.7	6.7	-6.0	-1.5
2	18.5	4.2	9.6	9.9	-8.3	-2.1	-4.9	-17.9	-10.9	11.0	-4.2	.9
3	4.9	.0	1.4	3.9	-3.1	-1.0	-1.4	-18.8	-10.2	7.8	-6.0	-.7
4	9.9	.0	3.2	4.6	-4.2	-1.0	-4.2	-16.6	-10.4	-4.2	-13.7	-8.8
5	15.0	-.3	4.6	4.2	-5.7	-.6	3.9	-10.5	-.5	-6.4	-14.1	-10.8
6	16.5	.0	6.3	-4.6	-13.7	-7.8	-.7	-9.8	-4.8	-9.4	-20.7	-14.5
7	17.3	1.1	6.9	.4	-15.3	-9.0	1.4	-8.6	-6.0	-4.2	-20.7	-13.3
8	17.3	1.4	7.6	8.5	-10.9	-4.1	8.5	-7.9	-2.8	-9.0	-19.7	-13.3
9	18.9	2.8	8.5	11.0	-7.5	-1.5	9.9	-4.9	.6	-5.7	-14.1	-8.9
10	18.9	2.5	8.9	12.4	-4.9	-.2	4.2	-2.4	.2	.0	-10.5	-6.5
11	20.5	2.8	9.4	13.5	-5.3	.0	3.5	-4.2	-.8	-4.6	-9.4	-7.5
12	18.9	2.1	8.2	12.8	-4.2	1.0	4.9	-8.3	-4.0	-2.1	-10.5	-6.6
13	17.3	.7	7.6	12.1	-2.4	2.2	6.7	-7.9	-2.9	-3.1	-9.0	-5.0
14	13.5	.4	6.8	8.5	-3.1	2.4	1.4	-17.4	-8.7	-6.4	-14.5	-9.6
15	13.9	-1.4	4.7	1.4	-6.0	-1.6	-7.9	-21.6	-15.2	.0	-19.3	-12.4
16	9.5	-3.5	4.0	-5.3	-14.5	-8.9	-2.8	-14.9	-7.0	2.8	-17.0	-11.8
17	2.5	-6.8	-3.0	-.7	-14.1	-6.0	-14.9	-29.8	-21.9	4.2	-14.9	-9.4
18	13.9	-5.7	3.3	7.4	-2.1	2.9	-13.3	-29.8	-21.1	8.8	-10.9	-4.4
19	9.2	-2.1	5.4	14.6	-.3	4.8	-6.4	-18.8	-13.3	10.6	-7.9	-2.5
20	-2.1	-10.1	-6.4	9.5	-3.8	2.6	-1.0	-17.0	-8.4	6.4	-7.5	-3.0
21	-7.5	-13.7	-10.1	9.9	-4.6	1.0	-.7	-6.8	-3.2	-1.7	-11.7	-6.7
22	4.2	-15.7	-6.7	6.0	-2.8	2.9	-.7	-7.9	-2.5	-1.7	-12.5	-7.7
23	7.1	-7.5	-2.3	-2.4	-8.3	-3.7	-6.8	-16.6	-10.3	-.7	-9.4	-4.9
24	8.5	-8.3	-1.7	1.4	-11.3	-6.6	-2.1	-18.3	-12.0	-1.7	-12.9	-7.3
25	1.4	-8.3	-2.0	2.8	-9.4	-4.5	3.2	-12.5	-6.0	-.7	-12.9	-4.5
26	-.7	-15.3	-8.4	-.3	-10.1	-6.1	4.6	-8.3	-2.1	-1.0	-7.5	-3.1
27	1.4	-8.6	-2.6	-1.0	-12.9	-8.8	1.8	-3.1	-1.5	-1.7	-12.1	-5.7
28	1.8	-6.8	-1.5	5.7	-13.7	-7.1	2.5	-10.5	-5.0	1.4	-14.5	-7.8
29	1.4	-11.3	-5.3	-3.1	-7.5	-5.6	6.0	-10.5	-4.8	-2.4	-11.3	-6.9
30	8.5	-7.9	-2.3	-7.5	-16.6	-11.2	8.5	-5.7	-.9	5.3	-12.5	-5.9
31	6.7	-7.1	-.8	---	---	---	7.4	-4.9	-1.3	10.2	-6.4	-.6
MONTH	20.5	-15.7	2.0	14.6	-16.6	-2.8	9.9	-29.8	-6.6	11.0	-20.7	-6.8

380324107444500 WHITEHOUSE CREEK METEOROLOGICAL STATION NEAR OURAY, CO--Continued

TEMPERATURE, AIR, (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.5	-7.1	-1.7	-2.8	-17.9	-10.7	2.5	-5.7	-2.7	5.3	-6.0	.8
2	2.5	-7.9	-3.3	7.4	-14.1	-3.1	3.5	-3.8	-.5	4.6	-8.6	-2.1
3	-1.4	-11.7	-7.0	1.8	-5.3	-2.0	6.4	-2.8	1.4	12.1	-1.0	5.1
4	4.2	-12.5	-5.0	-3.5	-16.2	-11.5	1.8	-5.7	-2.1	14.6	.0	7.5
5	3.9	-9.4	-4.4	1.8	-20.7	-9.7	-5.7	-13.7	-8.7	15.8	.4	7.1
6	-4.6	-12.5	-8.1	7.8	-12.9	-4.5	-2.8	-13.7	-8.7	14.3	2.5	6.9
7	-.3	-19.3	-11.7	6.4	-11.3	-3.7	1.4	-13.3	-5.3	12.8	1.1	6.2
8	.7	-17.4	-10.7	9.9	-7.9	-.1	5.3	-9.4	-2.0	10.6	.7	4.3
9	1.4	-15.3	-9.2	7.1	-10.1	-2.6	5.3	-2.8	.4	10.6	.0	4.0
10	2.1	-14.5	-7.7	9.2	-7.9	-1.0	-.7	-9.8	-3.8	13.5	-1.0	5.5
11	4.6	-10.5	-4.5	12.4	-6.0	1.2	-6.0	-13.7	-9.9	13.5	-.7	5.7
12	5.7	-12.1	-5.2	11.7	-4.2	2.1	-4.2	-19.3	-11.5	13.5	1.4	6.3
13	-4.9	-16.2	-11.2	7.8	-6.0	1.3	1.1	-19.7	-9.3	15.8	.0	7.1
14	3.5	-16.2	-8.7	5.7	-6.8	-.2	6.4	-14.1	-3.8	15.8	.7	7.8
15	3.9	-10.9	-4.8	8.8	-3.8	2.4	9.5	-4.6	1.4	16.5	1.4	8.5
16	9.9	-10.1	-2.7	9.9	-3.5	2.9	10.6	-6.0	1.9	16.5	1.8	7.6
17	3.9	-5.3	.4	7.4	-4.2	.8	11.0	-3.5	3.1	18.1	2.8	9.2
18	4.9	-8.6	-2.1	6.7	-7.5	-.9	11.0	-2.1	4.0	15.4	2.1	9.1
19	7.8	-11.7	-4.1	11.3	-4.9	2.0	12.1	-1.0	5.3	12.8	3.2	7.4
20	-1.0	-11.7	-7.1	15.0	-3.1	4.4	11.0	-1.4	5.3	10.6	1.4	6.1
21	-5.3	-18.3	-12.0	12.8	-1.7	4.2	7.1	-2.4	3.0	8.5	2.1	4.5
22	-1.7	-19.7	-12.0	12.4	-3.1	3.8	6.0	-2.1	.6	8.5	1.8	3.3
23	-6.8	-15.3	-10.5	12.4	-1.0	4.5	4.6	-3.1	.1	11.7	.0	5.5
24	-6.4	-14.1	-11.1	1.1	-9.0	-3.1	.0	-7.9	-3.1	9.5	-1.0	4.3
25	-2.4	-12.9	-8.2	2.5	-12.1	-5.4	5.7	-6.8	-.6	8.5	-1.7	1.7
26	-3.5	-17.4	-10.1	8.8	-8.6	-.4	6.7	-2.1	1.4	4.2	-5.7	-.3
27	-.7	-14.1	-6.6	8.8	-4.2	1.9	12.4	-5.7	3.1	9.2	-2.8	3.4
28	-1.4	-16.2	-8.4	9.9	-5.7	2.5	9.9	1.1	5.0	12.4	-.3	5.8
29	---	---	---	2.1	-9.4	-4.4	7.4	-2.1	3.7	14.3	3.2	8.1
30	---	---	---	10.6	-9.8	-.8	7.4	-6.0	1.2	17.7	3.5	10.0
31	---	---	---	9.2	-3.1	1.7	---	---	---	20.1	3.9	11.3
MONTH	9.9	-19.7	-7.1	15.0	-20.7	-.9	12.4	-19.7	-1.0	20.1	-8.6	5.7
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.3	5.7	13.1	18.9	5.3	12.7	19.7	6.7	12.4	15.0	6.4	10.3
2	18.5	4.9	11.7	24.6	4.6	14.4	20.9	8.5	13.5	19.3	7.1	11.7
3	20.5	3.2	11.3	17.7	2.8	10.7	19.3	10.2	13.3	18.5	7.4	11.7
4	20.5	4.6	12.2	20.5	3.2	11.9	16.9	9.2	11.9	15.0	6.0	9.5
5	19.7	4.2	11.3	20.9	5.3	12.6	16.1	8.5	11.0	20.1	5.3	10.8
6	17.3	4.2	9.1	22.1	7.4	13.5	14.6	6.0	9.4	15.8	4.9	8.7
7	12.1	3.9	6.8	18.1	7.8	11.6	15.0	4.9	9.6	18.5	3.9	9.6
8	7.1	1.8	4.0	18.1	7.4	11.4	18.9	5.7	11.0	19.7	5.7	11.1
9	8.5	1.1	4.5	18.9	6.0	11.9	18.5	7.4	10.7	16.9	6.4	10.2
10	15.0	3.9	7.9	20.1	7.8	12.7	15.8	4.6	9.3	16.1	6.0	9.7
11	15.8	.0	5.8	15.8	8.5	11.9	15.8	3.9	8.4	15.0	5.7	9.0
12	16.1	4.2	9.9	19.7	6.4	13.5	16.9	3.9	9.3	16.5	4.9	9.4
13	14.3	3.2	9.1	18.9	4.9	11.9	13.1	5.3	8.5	17.3	4.6	8.5
14	13.5	2.1	8.4	23.3	5.7	13.9	17.3	6.4	10.9	15.0	4.6	8.9
15	11.7	1.4	6.1	25.5	8.5	15.4	20.1	7.1	13.1	14.3	4.2	8.4
16	14.3	2.5	8.5	23.3	9.9	15.1	19.3	8.8	13.7	15.4	4.2	8.9
17	16.9	4.9	10.7	22.5	9.2	14.0	19.7	7.8	12.8	17.3	2.8	9.1
18	21.3	4.9	12.3	19.7	8.5	11.3	18.1	7.8	11.4	18.9	9.5	13.4
19	21.7	6.7	13.7	16.1	7.8	11.3	18.9	6.7	11.9	17.3	7.4	10.9
20	22.1	8.5	14.7	18.5	6.0	12.3	20.9	7.4	12.7	17.3	6.4	10.4
21	20.9	7.4	14.4	20.5	7.8	13.1	21.3	7.4	13.2	13.1	3.9	6.7
22	21.7	6.7	14.1	19.7	8.8	12.7	20.5	9.2	14.0	6.4	1.4	4.3
23	19.3	6.7	12.7	15.8	7.8	11.3	20.1	8.5	12.6	9.2	-.3	4.0
24	19.7	5.7	11.7	20.1	5.7	12.3	19.7	7.4	12.6	15.0	.4	5.9
25	18.5	4.6	11.7	22.1	7.4	14.5	18.5	8.5	11.0	17.3	2.1	8.6
26	18.5	6.4	11.5	19.3	8.8	12.9	14.3	7.1	10.3	14.6	6.7	9.9
27	18.5	7.4	11.9	15.0	8.5	10.8	20.5	6.0	11.7	15.0	3.2	8.9
28	18.9	7.8	13.3	17.3	8.8	11.6	19.7	7.8	12.6	15.8	.7	7.2
29	20.1	5.3	13.1	13.9	8.5	10.5	18.5	7.4	10.9	19.7	3.2	9.0
30	20.5	6.7	14.4	12.8	8.5	10.1	16.9	6.4	9.2	17.7	3.2	8.9
31	---	---	---	14.6	9.2	10.9	13.9	6.7	9.9	---	---	---
MONTH	23.3	.0	10.7	25.5	2.8	12.4	21.3	3.9	11.4	20.1	-.3	9.1
YEAR	25.5	-29.8	2.2									

380324107444500 WHITEHOUSE CREEK METEOROLOGICAL STATION NEAR OURAY, CO--Continued

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.0	.1	.1	.0	.0	.5	.3	.0	.0	.0	.0	.1
2	.4	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.1
3	2.5	.3	.0	.9	.0	.0	.0	.0	.0	.0	.1	.0
4	.0	.0	.0	.1	.0	.0	.3	.0	.0	.0	.9	.5
5	.0	.0	.0	.1	.2	.2	.0	.0	.0	.0	.2	.0
6	.0	.1	.3	.1	.3	.1	.0	.0	.0	.0	.6	.6
7	.0	.0	.0	.0	.7	.1	.0	.0	.0	.0	.0	.0
8	.0	.1	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
9	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.2	.1
10	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.5	.2
11	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.3
12	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	.1
13	.0	.0	.0	.1	.2	.0	.0	.0	.1	.0	.2	.0
14	.0	.0	.1	.2	.1	.0	.1	.0	.0	.0	.0	.0
15	.0	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5
16	.0	.4	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0
17	.0	.2	.0	.3	.0	.0	.0	.0	.0	.1	.0	.0
18	.1	.0	.0	.3	.1	.0	.0	.0	.1	.1	.1	.1
19	.2	.0	.1	.2	.1	.1	.0	.0	.0	.2	.0	.3
20	.5	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.1
21	.3	.0	.1	.0	.5	.0	.0	.0	.0	.0	.0	.3
22	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.4
23	.0	.5	.0	.0	.1	.0	.0	.0	.0	.2	.0	.0
24	.0	.0	.0	.0	.1	.5	.0	.0	.0	.0	.0	.0
25	.3	.0	.0	.3	.5	.1	.0	.0	.0	.0	.9	.0
26	.0	.3	.1	.1	.7	.1	.0	.0	.0	.1	.4	.1
27	.3	.2	.1	.6	.5	.0	.0	.0	.0	.4	.0	.1
28	.7	.1	.0	.3	.2	.1	.0	.0	.0	.1	.0	.0
29	.0	.9	.0	.2	---	.6	.0	.0	.0	.1	.0	.0
30	.1	.4	.0	.1	---	.1	.0	.0	.0	.2	.1	.0
31	.1	---	.0	.1	---	.3	---	.0	---	.0	.1	---
TOTAL	5.5	4.1	1.6	5.0	5.4	3.1	0.8	0.0	0.3	1.5	4.4	3.9

WTR YR 1997 TOTAL 35.6

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 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.

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	20.1	9.9	14.7	3.5	-6.0	-2.0	3.5	-11.3	-3.5	7.8	.7	3.7
2	22.5	6.4	15.1	9.9	-3.5	3.2	-2.4	-11.3	-7.0	11.3	.4	4.8
3	7.8	1.8	4.6	6.0	-1.0	2.0	.4	-11.3	-5.0	8.5	-3.1	1.7
4	14.3	3.5	8.4	7.1	-.7	2.3	-.3	-9.4	-5.7	-2.8	-9.4	-5.8
5	16.5	4.6	10.1	9.2	-3.1	3.6	6.4	-7.1	2.2	-5.3	-9.8	-7.9
6	18.9	6.4	11.9	-3.1	-8.6	-5.5	2.5	-4.2	-1.9	-7.9	-15.3	-11.6
7	18.9	8.5	12.6	2.1	-9.4	-4.3	2.8	-4.9	-1.7	-3.5	-17.0	-11.1
8	20.1	9.2	13.7	5.7	-4.9	.0	7.8	-2.4	2.6	-4.9	-14.1	-9.8
9	20.9	10.2	14.8	9.2	-1.7	3.5	11.3	2.1	6.2	-3.1	-9.8	-5.9
10	22.1	11.0	15.6	13.9	2.8	7.3	6.4	-.7	2.7	.7	-4.9	-2.8
11	22.1	12.4	16.2	15.0	3.5	7.6	7.4	-.7	2.4	-1.0	-6.0	-4.0
12	20.5	9.9	15.0	13.5	3.2	7.5	7.4	-.7	2.4	.7	-5.7	-3.3
13	20.5	9.2	14.3	14.6	5.7	9.3	8.8	-1.0	3.4	-.3	-5.3	-3.1
14	15.4	7.1	11.6	13.1	3.5	8.0	1.1	-12.5	-5.7	-3.5	-9.8	-6.6
15	17.3	5.7	11.0	4.2	-4.6	.9	-6.0	-14.5	-10.2	-4.6	-13.3	-9.1
16	14.3	-.3	7.5	-3.1	-9.4	-6.0	.7	-12.1	-4.0	.0	-11.7	-7.7
17	4.6	-4.2	.0	1.4	-9.4	-3.7	-12.1	-23.6	-17.6	.0	-11.7	-6.3
18	16.1	-2.4	7.4	10.2	.4	5.7	-10.5	-23.6	-16.3	3.5	-7.5	-2.2
19	13.1	-1.4	8.4	13.1	4.6	8.6	-7.1	-14.1	-10.6	8.1	-4.6	.6
20	-1.4	-7.1	-4.0	12.1	3.2	8.0	-.7	-12.1	-4.7	6.7	-2.1	1.1
21	-3.8	-9.4	-7.2	10.6	2.8	6.7	2.5	-4.6	-.3	.0	-7.1	-3.5
22	3.9	-11.7	-4.0	8.8	-.7	5.5	3.5	-4.2	-.2	.0	-6.8	-3.4
23	7.8	-2.1	2.0	.0	-4.2	-1.3	-3.5	-9.8	-5.9	1.1	-3.8	-1.7
24	9.9	-1.4	3.8	2.5	-7.1	-2.7	-.3	-11.3	-6.6	.0	-7.1	-3.5
25	4.9	-4.9	1.3	5.3	-3.1	.0	4.9	-6.4	-.9	2.5	-5.3	-.7
26	.4	-9.4	-4.6	.0	-4.6	-2.6	7.4	-2.8	1.6	1.1	-2.8	-.4
27	3.5	-5.7	-1.0	-2.1	-9.0	-6.0	4.9	-1.4	1.1	1.1	-5.3	-1.7
28	3.9	-4.2	.8	3.9	-9.0	-1.7	3.5	-3.5	-.6	2.8	-7.1	-2.6
29	3.5	-6.4	-1.9	-.3	-4.9	-2.9	6.0	-3.5	.3	1.4	-7.1	-3.7
30	7.4	-3.5	1.9	-3.8	-11.3	-7.5	6.0	-2.1	2.1	4.2	-6.8	-2.0
31	7.8	-4.6	2.7	---	---	---	8.8	.0	3.3	10.6	-3.8	3.9
MONTH	22.5	-11.7	6.5	15.0	-11.3	1.5	11.3	-23.6	-2.5	11.3	-17.0	-3.4

380436107411500 PORTLAND METEOROLOGICAL STATION NEAR OURAY, CO--Continued

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.4	-1.4	2.4	-2.4	-10.9	-7.2	1.1	-4.6	-2.2	9.5	-3.5	3.7
2	6.0	-2.4	1.2	8.5	-7.1	.8	7.1	-4.6	.7	9.2	-5.3	1.2
3	-.3	-6.0	-3.4	4.9	-6.8	.9	9.9	-1.4	4.2	16.1	2.5	9.2
4	3.2	-6.8	-1.7	-6.4	-11.7	-8.7	2.5	-3.1	-.4	19.3	8.5	13.5
5	4.6	-6.0	-1.6	.4	-13.7	-6.6	-3.1	-9.8	-6.0	19.7	6.7	13.1
6	-2.4	-9.8	-6.0	6.7	-5.3	.6	-1.0	-10.9	-5.4	19.3	9.2	13.9
7	-3.1	-14.1	-8.9	7.8	-3.5	2.1	4.6	-5.7	-.5	16.9	8.1	12.0
8	-.7	-11.7	-6.9	10.2	-1.7	4.7	6.7	-2.8	1.9	15.8	6.7	10.2
9	1.1	-9.0	-4.6	7.8	-4.2	1.8	7.4	-.3	3.1	14.6	7.1	9.5
10	3.5	-7.1	-2.5	11.0	.0	4.7	2.8	-7.5	-1.4	17.7	4.9	11.1
11	5.3	-3.8	-.5	12.8	.7	6.9	-4.6	-11.7	-8.0	17.7	7.1	12.4
12	6.7	-7.1	-.8	12.4	4.6	8.1	-2.8	-14.5	-8.0	17.3	6.4	12.0
13	-4.6	-10.1	-7.8	9.9	-2.4	5.8	3.5	-12.9	-5.0	20.9	8.5	13.8
14	2.5	-12.1	-4.9	8.5	-3.8	2.7	9.2	-5.7	1.6	20.1	8.5	14.1
15	3.9	-5.7	-.7	11.0	2.8	7.0	11.7	1.4	5.8	22.5	9.5	15.5
16	7.8	-3.5	2.6	12.8	2.8	7.9	14.6	.4	7.6	21.3	9.9	15.3
17	7.1	2.8	4.8	9.5	.4	4.7	14.6	4.2	9.6	21.7	12.1	16.1
18	6.7	-3.5	1.9	9.9	-2.8	3.4	15.4	6.0	10.2	20.1	9.9	14.8
19	6.0	-7.1	-1.0	13.5	.7	6.7	15.4	6.7	10.9	17.7	9.9	13.1
20	1.4	-8.6	-3.5	16.9	3.5	10.0	15.4	4.9	10.4	15.4	7.4	10.8
21	-1.7	-11.3	-7.9	15.8	7.1	10.8	11.3	1.8	7.0	12.1	6.4	8.7
22	-1.4	-12.9	-7.3	15.0	4.2	9.4	9.2	.0	3.9	11.3	4.6	6.5
23	-4.2	-10.1	-7.5	14.3	6.0	10.1	6.7	.4	3.6	15.8	4.9	9.7
24	-5.7	-10.9	-8.8	7.1	-6.8	.2	4.2	-3.1	-.6	14.6	2.5	8.8
25	-1.0	-10.5	-6.0	4.2	-10.5	-3.4	8.8	-3.5	2.5	11.7	-.7	4.7
26	-.3	-11.3	-5.7	11.7	-3.5	3.8	11.7	1.1	5.2	8.5	-2.4	3.0
27	.7	-5.7	-2.7	9.9	1.1	5.8	16.5	.0	8.2	12.8	2.5	7.8
28	1.8	-9.8	-4.9	11.3	-1.0	5.4	12.4	3.9	8.2	17.7	5.3	10.9
29	---	---	---	3.5	-4.2	-1.3	11.0	1.8	7.7	17.3	10.2	13.9
30	---	---	---	13.1	-5.7	4.5	12.1	-2.1	5.0	21.3	10.6	15.9
31	---	---	---	10.2	.0	5.6	---	---	---	24.6	11.7	18.5
MONTH	7.8	-14.1	-3.3	16.9	-13.7	3.5	16.5	-14.5	2.7	24.6	-5.3	11.1
		JUNE			JULY			AUGUST			SEPTEMBER	
1	26.4	15.4	20.6	23.3	9.5	17.1	25.1	11.7	17.8	18.9	9.9	14.4
2	23.8	11.0	18.2	28.7	11.7	20.3	25.5	15.0	18.9	26.0	10.2	17.6
3	25.5	8.8	16.5	22.1	7.1	15.5	23.8	13.9	17.4	24.6	13.9	18.2
4	26.4	15.4	19.9	24.6	9.5	17.1	21.7	12.4	15.3	18.9	11.0	13.5
5	24.2	13.1	18.6	25.5	12.4	18.7	18.1	11.3	13.9	23.8	10.6	16.0
6	21.3	9.5	14.2	26.0	15.8	19.7	17.7	9.5	13.0	20.1	9.5	13.3
7	16.1	7.1	10.9	24.2	13.9	18.0	20.1	7.4	13.6	22.1	9.5	15.3
8	11.7	5.3	7.2	22.9	13.5	18.1	25.5	11.3	17.2	23.3	10.6	16.2
9	12.4	4.2	7.6	24.2	12.4	18.4	22.1	11.7	16.1	20.1	11.3	14.7
10	18.5	7.4	11.8	23.8	15.4	19.2	18.1	10.2	12.5	19.3	11.7	14.7
11	20.9	6.0	13.1	20.5	14.3	17.2	19.7	9.2	13.0	20.5	9.9	13.9
12	20.9	10.6	14.7	25.1	12.8	18.5	21.7	9.2	14.0	20.5	8.8	14.4
13	18.9	5.7	12.8	25.1	9.9	17.1	18.5	9.2	13.2	22.1	9.9	13.3
14	17.3	8.1	13.1	27.3	12.1	19.5	21.7	9.5	15.4	20.1	9.5	13.8
15	16.5	6.4	10.9	29.2	13.9	21.7	24.2	12.4	18.2	20.1	9.2	12.8
16	19.3	7.8	13.1	27.8	16.5	22.0	23.8	15.8	18.6	19.3	8.8	13.2
17	21.7	8.8	15.2	26.0	15.4	20.4	24.2	13.1	17.5	20.1	8.8	14.0
18	22.9	11.7	17.5	24.2	15.0	17.7	22.5	11.0	16.2	22.9	12.4	16.8
19	25.5	13.5	19.6	20.9	10.6	15.6	23.8	12.8	17.1	20.1	9.5	14.8
20	25.5	15.0	20.2	24.2	10.2	17.1	26.0	14.6	19.4	22.1	8.8	13.6
21	26.4	13.5	20.3	22.9	13.1	18.4	25.1	12.8	18.2	15.4	6.0	10.5
22	26.4	15.4	20.4	24.2	14.3	17.9	23.8	13.9	18.5	10.2	4.2	7.4
23	25.1	14.3	19.2	22.1	11.7	15.1	23.8	13.9	17.4	13.9	2.1	7.1
24	23.8	11.0	17.0	26.0	11.7	18.2	22.5	13.1	17.5	16.9	3.5	9.6
25	24.2	9.5	16.8	26.4	14.6	20.3	23.8	12.8	16.5	19.7	7.1	12.6
26	23.8	13.9	17.9	26.0	11.7	18.1	18.9	11.0	14.5	17.7	11.0	13.5
27	22.5	13.1	17.3	19.3	10.6	14.1	23.8	10.6	16.2	18.1	8.5	12.6
28	24.2	14.3	19.2	19.7	13.1	15.8	25.1	13.1	18.4	18.1	5.7	11.1
29	25.1	12.4	18.8	20.5	11.3	15.1	22.1	13.1	16.4	21.3	8.5	14.1
30	26.0	13.5	19.5	19.7	10.2	13.4	23.3	10.6	14.6	22.1	8.8	14.6
31	---	---	---	20.9	11.7	14.4	18.1	11.3	14.2	---	---	---
MONTH	26.4	4.2	16.1	29.2	7.1	17.7	26.0	7.4	16.2	26.0	2.1	13.6
YEAR	29.2	-23.6	6.7									

380436107411500 PORTLAND METEOROLOGICAL STATION NEAR OURAY, CO--Continued

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.0	.0	.0	.0	.0	.0	.4	.2	.0	.0	.0	.0
2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3	2.3	.2	.0	.7	.0	.0	.0	.0	.0	.0	.2	.0
4	.0	.0	.0	.1	.0	.2	.8	.0	.0	.0	.7	.3
5	.0	.0	.0	.1	.3	.0	.1	.0	.0	.0	.3	.0
6	.0	.1	.3	.2	.6	.0	.0	.0	.0	.0	.1	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
10	.0	.0	.1	.1	.0	.0	.4	.0	.0	.0	.4	.0
11	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2
12	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.1	.1
13	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0	.2	.1
14	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0
15	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
16	.0	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.1
20	.3	.0	.0	.0	.4	.0	.0	.2	.0	.1	.0	.1
21	.2	.0	.1	.0	.4	.0	.2	.1	.0	.0	.0	.2
22	.0	.0	.1	.0	.0	.0	.1	.1	.0	.0	.0	.2
23	.0	.5	.1	.0	.4	.0	.2	.0	.0	.3	.0	.0
24	.0	.0	.0	.0	.2	.7	.2	.0	.0	.0	.0	.0
25	.3	.0	.0	.4	.0	.0	.0	.0	.0	.0	.3	.0
26	.0	.3	.0	.2	.0	.0	.0	.0	.0	.1	.3	.1
27	.1	.2	.0	.2	.0	.0	.0	.0	.1	.2	.0	.1
28	.6	.0	.0	.0	.2	.0	.1	.0	.0	.1	.0	.0
29	.0	.3	.0	.0	---	.7	.1	.0	.0	.0	.0	.0
30	.0	.2	.0	.0	---	.0	.0	.0	.0	.1	.2	.0
31	.0	---	.0	.0	---	.2	---	.0	---	.1	.1	---
TOTAL	4.3	2.7	0.9	2.5	2.9	1.8	2.7	0.6	0.2	1.2	3.1	2.6

WTR YR 1997 TOTAL 25.5

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.

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.3	5.3	13.5	5.3	-5.3	-1.4	3.5	-16.2	-5.0	8.1	-2.8	1.7
2	23.3	7.8	13.4	11.3	-6.4	1.9	-1.7	-13.3	-6.8	9.9	.0	4.4
3	8.1	1.8	4.6	7.1	.7	2.3	1.1	-16.2	-5.7	9.5	-3.5	2.7
4	15.4	2.1	8.1	8.1	-.7	3.5	-.7	-12.1	-5.8	4.9	-11.7	-5.0
5	17.3	2.1	9.3	9.5	-1.4	4.4	5.3	-9.8	1.8	-1.4	-11.3	-7.4
6	20.1	3.2	10.8	-1.4	-10.1	-4.8	2.1	-6.8	-1.6	-8.3	-15.7	-10.6
7	19.3	4.2	11.1	2.8	-12.1	-4.6	6.4	-8.3	-2.9	-2.8	-20.2	-11.2
8	21.3	3.9	11.9	8.1	-7.9	-.7	9.2	-6.4	-.3	-.7	-13.3	-8.8
9	21.7	5.3	12.7	11.3	-4.2	2.0	13.1	-2.8	4.6	1.8	-12.5	-5.4
10	22.1	4.6	13.3	15.0	-2.4	4.6	8.1	.0	4.0	2.1	-4.6	-1.7
11	22.1	7.4	14.5	16.5	-2.1	5.1	6.0	2.1	3.7	.7	-5.7	-3.2
12	21.3	5.7	13.3	15.4	-2.4	4.9	7.4	-2.4	2.8	.7	-4.2	-1.9
13	20.5	4.6	12.8	15.8	1.8	7.6	9.2	-3.5	3.0	2.1	-6.0	-1.8
14	16.1	4.2	10.9	12.4	.0	7.2	3.9	-12.9	-3.9	-2.4	-10.5	-5.7
15	16.9	1.8	9.3	6.7	-3.1	2.3	-4.6	-15.7	-9.5	-.3	-16.2	-9.8
16	13.5	.4	8.0	-1.7	-12.5	-5.0	2.8	-10.1	-3.2	-.3	-17.0	-10.2
17	5.3	-4.6	.5	2.1	-12.5	-3.6	-10.1	-24.1	-16.1	1.4	-16.6	-8.7
18	16.1	-5.3	6.6	9.5	1.8	5.8	-8.6	-25.7	-17.3	5.7	-11.3	-4.5
19	14.6	.4	10.2	12.8	1.4	8.1	-3.8	-16.2	-11.2	9.2	-9.8	-2.0
20	.4	-6.0	-2.5	12.1	.0	7.5	1.1	-15.7	-5.5	5.7	-5.7	.2
21	-2.8	-10.1	-5.8	12.4	-1.0	6.0	3.2	-4.6	.4	.4	-7.9	-2.5
22	4.2	-12.1	-4.2	10.2	-.3	6.7	6.0	-3.1	1.6	.7	-7.9	-3.2
23	10.2	-4.9	1.7	2.5	-4.9	-.3	-2.1	-11.7	-5.3	2.8	-3.8	-.9
24	10.6	-4.2	3.4	3.9	-6.8	-2.0	1.8	-14.9	-7.9	.4	-6.0	-2.8
25	7.4	-4.6	2.4	6.7	-3.5	.5	5.7	-9.8	-1.8	3.5	-7.1	-1.1
26	1.8	-10.1	-3.1	1.8	-5.7	-2.3	8.1	-2.4	2.0	2.8	-.7	1.0
27	4.6	-4.2	-.4	-.7	-11.3	-5.7	4.2	-1.0	2.3	3.5	-7.5	-1.2
28	4.9	-3.1	1.5	5.7	-12.5	-2.9	4.6	-2.1	.8	3.2	-12.1	-3.5
29	4.2	-3.5	-.6	-.3	-3.5	-2.1	7.4	-5.7	.0	2.8	-7.9	-3.3
30	9.2	-3.8	1.7	-3.1	-14.9	-7.6	7.1	-2.8	1.5	6.7	-11.7	-3.3
31	8.5	-4.6	2.3	---	---	---	9.9	-1.7	2.7	9.9	-4.9	2.5
MONTH	23.3	-12.1	6.2	16.5	-14.9	1.2	13.1	-25.7	-2.5	9.9	-20.2	-3.5

380844107512200 PLEASANT VALLEY METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.3	-3.1	2.1	3.9	-12.5	-6.9	3.5	-3.5	-.5	10.2	-1.7	5.2
2	6.0	-4.2	.5	9.9	-12.1	-.6	8.8	-3.8	1.5	8.8	-6.4	1.9
3	.7	-8.6	-2.8	4.2	-5.3	1.2	9.9	-.7	4.9	17.3	1.4	8.8
4	4.2	-10.1	-2.6	-3.5	-14.5	-7.8	3.2	-2.8	.7	18.5	2.8	11.8
5	5.3	-6.4	-.9	2.8	-18.3	-8.1	-2.1	-10.5	-5.1	19.7	3.2	12.4
6	1.8	-8.6	-5.2	10.6	-11.3	-1.2	.0	-10.5	-4.1	20.1	6.0	13.3
7	1.4	-16.2	-8.8	9.5	-7.9	.3	5.3	-6.4	-.3	18.5	6.4	12.7
8	4.2	-16.2	-7.9	10.6	-5.7	2.5	7.4	-4.2	2.0	17.3	4.2	9.2
9	7.1	-13.7	-6.3	8.8	-7.1	.9	9.5	1.4	4.9	15.0	3.2	8.6
10	6.4	-12.9	-4.8	11.7	-6.0	3.0	3.9	-6.4	-.1	17.7	2.5	10.4
11	6.7	-7.9	-1.4	13.5	-4.9	4.3	-3.1	-10.5	-6.9	18.1	2.5	11.3
12	7.8	-9.0	-1.7	13.1	-.3	5.7	-.7	-10.9	-5.9	17.7	4.9	11.8
13	-3.1	-13.7	-8.0	10.2	-3.8	5.0	3.9	-12.9	-4.0	20.5	3.2	12.8
14	3.5	-15.7	-6.1	8.1	-6.8	1.4	9.5	-7.1	1.5	21.3	3.2	13.1
15	9.9	-6.8	-1.2	11.7	-1.4	6.1	11.7	-.7	5.7	21.3	5.3	14.3
16	11.0	-8.6	.3	12.1	1.8	7.4	15.0	-1.7	6.7	21.7	5.3	14.1
17	7.4	-1.0	4.1	10.6	-2.1	5.6	15.8	-.7	8.0	22.1	6.7	14.7
18	8.5	-4.2	2.1	9.9	-3.8	2.9	15.4	3.2	9.1	20.1	7.8	15.2
19	7.1	-6.0	-.5	14.3	-2.4	5.8	16.5	3.5	10.8	18.5	9.5	14.1
20	1.8	-7.5	-3.4	16.9	-.7	8.0	15.4	3.2	10.6	16.1	7.4	11.0
21	-.3	-15.3	-7.9	15.8	1.1	8.7	13.9	1.4	8.1	12.8	7.4	9.8
22	1.4	-17.0	-7.8	15.4	.4	8.0	9.2	1.1	4.7	9.2	6.4	7.4
23	-2.1	-9.8	-6.3	15.0	2.1	8.1	8.5	-.7	3.4	17.7	2.5	10.0
24	-4.9	-10.5	-7.9	5.7	-6.0	.7	4.9	-1.7	1.0	13.9	1.4	8.6
25	.0	-12.5	-6.1	4.6	-10.9	-2.8	10.2	-3.5	4.0	12.4	-.3	4.6
26	1.8	-14.5	-5.5	11.7	-5.7	3.5	10.6	.0	5.6	8.8	-.3	4.1
27	3.5	-6.8	-2.2	11.3	.4	6.5	15.8	-2.1	7.9	13.9	-.3	7.3
28	-.7	-11.3	-4.7	12.4	-2.8	5.7	13.9	4.2	8.5	16.1	1.8	10.2
29	---	---	---	3.9	-5.7	-.9	12.1	1.1	7.9	19.7	8.8	14.0
30	---	---	---	12.8	-7.9	2.6	11.3	-3.1	4.8	20.5	8.8	15.4
31	---	---	---	11.0	.0	5.2	---	---	---	25.5	7.4	16.9
MONTH	11.3	-17.0	-3.6	16.9	-18.3	2.6	16.5	-12.9	3.2	25.5	-6.4	10.8
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.1	10.2	18.7	22.5	7.1	17.3	24.6	9.5	17.5	20.5	9.9	15.2
2	22.9	10.6	17.5	26.9	4.9	18.1	25.5	11.3	18.8	25.5	8.5	17.1
3	25.1	6.4	16.5	23.3	6.0	15.3	25.1	14.3	17.9	22.9	11.7	17.0
4	25.1	7.1	17.2	25.1	4.9	16.0	20.9	12.4	15.8	20.9	8.8	13.6
5	24.2	8.8	16.8	25.1	7.4	17.1	20.5	12.1	15.0	23.3	8.1	15.4
6	22.5	7.8	14.3	25.5	8.5	17.3	18.1	8.8	13.8	20.9	7.8	12.9
7	17.3	6.7	11.8	25.1	10.6	16.7	20.9	6.0	13.8	22.9	5.3	14.3
8	13.5	5.3	8.0	24.6	9.9	16.6	23.8	7.8	16.9	23.8	7.4	15.3
9	13.9	5.3	8.7	25.1	8.1	17.2	25.1	10.6	16.0	21.3	10.2	14.8
10	19.3	7.8	12.2	25.1	9.5	17.5	18.5	7.4	12.9	19.7	8.1	13.0
11	21.3	6.0	---	21.7	10.2	17.0	20.1	6.7	13.0	20.1	7.8	13.1
12	20.5	7.4	14.3	24.2	9.9	17.7	22.5	6.4	13.9	21.3	8.1	14.6
13	20.5	5.7	13.9	24.6	7.1	16.5	20.5	7.8	13.5	21.7	7.8	12.8
14	18.9	6.4	13.3	26.9	7.1	18.2	21.7	8.1	15.3	21.3	6.7	13.3
15	16.1	4.2	11.0	29.2	8.5	19.8	24.2	11.7	18.4	20.9	8.1	12.3
16	18.9	6.4	13.4	29.2	11.7	20.6	23.3	12.8	19.2	18.9	8.1	13.5
17	22.1	7.4	15.1	27.3	13.9	20.2	24.2	9.2	18.0	21.3	5.3	13.8
18	24.6	7.4	16.9	26.0	11.3	17.1	22.1	11.3	16.9	21.7	10.6	16.4
19	25.5	11.0	18.7	23.3	11.7	16.3	24.2	9.5	17.1	21.3	9.5	16.3
20	24.6	12.8	19.6	24.2	8.8	17.2	26.0	9.2	18.0	21.7	6.7	13.5
21	25.5	9.2	18.4	24.6	10.6	18.3	25.5	9.9	18.4	17.7	6.0	10.3
22	26.0	9.5	18.8	24.2	13.5	18.1	25.5	13.9	19.0	13.9	3.5	8.1
23	24.2	9.9	17.8	22.9	11.0	16.3	25.5	12.1	17.0	13.5	1.4	7.6
24	24.6	7.8	16.8	26.4	9.2	17.7	24.2	11.0	17.5	17.3	1.4	9.3
25	25.1	5.7	16.3	26.9	9.2	19.5	25.5	11.3	15.8	21.3	4.2	12.3
26	23.3	7.8	16.1	26.4	12.4	18.4	19.7	9.9	14.4	19.3	9.9	13.8
27	23.8	9.5	17.0	20.5	11.7	15.3	24.2	8.1	16.5	18.5	6.0	12.8
28	23.8	10.6	17.8	20.9	12.4	16.1	25.1	10.6	17.9	19.3	6.0	11.7
29	24.2	9.2	17.3	20.5	11.7	15.4	24.2	10.2	15.9	21.3	5.3	12.8
30	25.5	9.2	18.6	19.3	11.3	14.2	23.8	8.5	14.1	22.1	6.0	13.3
31	---	---	---	20.9	12.1	15.2	20.1	8.5	14.2	---	---	---
MONTH	26.0	4.2	---	29.2	4.9	17.2	26.0	6.0	16.2	25.5	1.4	13.3
YEAR	29.2	-25.7	---									

380844107512200 PLEASANT VALLEY METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0
2	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
3	1.7	.2	.1	.6	.0	.0	.0	.0	.0	.0	.0	.0
4	.0	.0	.0	.0	.0	.1	.4	.0	.0	.0	.4	.6
5	.0	.0	.1	.0	.1	.0	.1	.0	.0	.0	.1	.0
6	.0	.1	.2	.1	.3	.0	.0	.0	.0	.0	.1	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	.1
8	.0	.0	.0	.1	.0	.0	.0	.1	.1	.0	.1	.0
9	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0
10	.0	.0	.2	.0	.0	.0	.3	.0	.3	.0	.6	.2
11	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
12	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	.1
13	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2
14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8
16	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
19	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20	.3	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0
21	.0	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.4
22	.0	.1	.0	.0	.0	.0	.0	.5	.0	.0	.1	.2
23	.1	.1	.0	.1	.6	.0	.1	.0	.0	.0	.3	.0
24	.0	.0	.0	.0	.1	.2	.1	.2	.0	.0	.0	.0
25	.1	.0	.0	.2	.0	.0	.0	.5	.0	.0	.5	.0
26	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.4	.1
27	.0	.1	.0	.1	.0	.0	.0	.0	.0	.2	.1	.0
28	.3	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0
29	.0	.1	.8	.0	---	.5	.1	.0	.0	.0	.0	.0
30	.0	.1	.0	.0	---	.0	.0	.0	.0	.2	.1	.0
31	.0	---	.0	.0	---	.1	---	.0	---	.1	.0	---
TOTAL	2.9	1.4	1.6	1.4	1.7	0.9	1.6	1.7	1.5	0.6	3.1	3.4

WTR YR 1997 TOTAL 21.8

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 rainfall data for water year 1993 are available in district office. Daily record for air temperature is good. Daily record for precipitation is good.

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	22.5	-2.1	11.0	5.7	-6.0	-1.2	5.3	-22.6	-9.3	8.1	-6.0	-.5
2	23.8	2.5	11.6	12.1	-9.4	.0	-1.0	-16.6	-6.0	12.4	-4.6	2.2
3	8.5	3.2	6.0	7.8	-2.8	1.5	2.1	-20.7	-8.5	11.3	-2.8	1.9
4	16.5	1.4	7.9	9.5	-2.4	3.5	2.1	-16.2	-6.4	-.7	-12.5	-5.5
5	18.1	-.7	8.1	9.9	-3.1	2.5	7.1	-13.7	1.1	-2.1	-13.3	-8.2
6	20.5	-.7	9.0	-1.0	-9.0	-3.8	3.9	-12.5	-2.5	-7.5	-18.3	-10.8
7	20.5	-1.0	8.9	3.9	-12.1	-4.7	3.9	-12.5	-7.1	-4.2	-24.7	-13.4
8	21.7	-1.7	9.1	8.1	-10.5	-2.4	6.4	-14.1	-6.6	-4.9	-14.9	-9.0
9	22.1	-.3	9.9	11.3	-8.6	-.5	11.7	-12.5	-2.7	-1.0	-14.9	-6.0
10	24.2	-1.0	10.7	15.0	-8.6	.9	8.8	.4	4.0	2.8	-5.3	-2.0
11	23.8	-.7	10.8	16.9	-9.8	.2	7.4	-1.0	3.8	.0	-5.7	-2.6
12	22.9	-.7	10.3	15.0	-9.0	.9	8.8	-4.6	1.4	2.5	-5.3	-1.2
13	22.1	-2.1	9.7	16.9	-5.7	3.3	10.2	-6.8	1.1	2.1	-7.1	-1.1
14	18.1	1.1	9.8	13.9	-3.8	5.6	.4	-11.3	-4.0	-.3	-8.6	-4.4
15	18.9	-3.8	7.3	6.4	-3.1	2.8	-3.8	-14.1	-8.8	-3.1	-21.1	-13.5
16	15.4	-1.7	6.7	-1.7	-18.8	-5.3	2.8	-9.4	-2.9	-1.7	-24.1	-15.5
17	6.4	-7.5	.6	4.6	-19.3	-5.5	-9.4	-22.6	-14.9	.0	-24.7	-14.6
18	17.7	-9.0	3.4	8.1	-2.4	2.7	-8.6	-24.1	-16.9	2.5	-18.3	-10.0
19	15.8	.0	9.8	13.9	-6.0	2.1	-6.4	-18.3	-11.9	5.7	-17.9	-8.7
20	.0	-4.2	-2.0	13.5	-4.6	6.0	1.1	-19.7	-8.9	4.2	-15.3	-5.8
21	-1.0	-9.4	-4.6	13.5	-6.4	3.3	5.7	-4.9	1.5	1.1	-9.4	-2.3
22	4.6	-12.5	-4.6	9.9	.0	6.9	5.3	-1.7	2.7	2.1	-11.3	-5.2
23	10.2	-7.5	.3	2.8	-3.5	.0	-.7	-15.3	-4.3	2.8	-6.0	-1.4
24	11.3	-7.5	2.5	4.2	-7.1	-2.4	2.5	-17.9	-10.2	.7	-11.3	-3.7
25	7.4	-2.8	2.8	5.7	-4.2	.0	6.7	-13.7	-3.8	4.9	-12.1	-2.3
26	3.5	-10.1	-2.8	2.5	-6.4	-2.2	7.8	-6.0	.7	3.2	-.7	1.3
27	6.4	-5.3	.0	-.7	-13.7	-5.9	6.4	-.3	2.5	2.8	-11.7	-1.7
28	5.7	-1.0	1.6	7.1	-16.6	-7.2	4.9	-5.7	.7	4.6	-16.2	-6.1
29	5.7	-3.8	.4	3.2	-4.9	-1.9	7.4	-8.3	-2.4	1.4	-9.0	-2.8
30	9.5	-5.3	1.0	-2.4	-21.1	-8.3	7.4	-5.7	.0	4.9	-16.2	-6.7
31	8.5	-5.7	1.2	---	---	---	10.2	-4.6	.8	7.4	-12.1	-2.6
MONTH	24.2	-12.5	5.0	16.9	-21.1	-.3	11.7	-24.1	-3.8	12.4	-24.7	-5.2

380916107452200 RIDGWAY METEOROLOGICAL STATION AT RIDGWAY, CO--Continued

TEMPERATURE, AIR (DEG.C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.4	-8.3	-1.1	.0	-14.1	-7.2	2.5	-2.8	-.6	12.8	.0	6.0
2	5.7	-9.4	-2.1	9.9	-17.0	-3.3	10.6	-3.5	2.3	9.9	-5.3	2.8
3	.4	-9.8	-2.5	5.7	-3.8	2.4	11.0	-.3	5.4	17.7	-1.0	8.4
4	3.2	-12.5	-5.7	-3.5	-16.6	-7.3	3.9	-1.4	.8	19.7	-1.4	10.5
5	4.6	-9.8	-3.4	2.1	-26.9	-13.3	-1.4	-7.9	-4.0	20.9	-1.0	11.1
6	-.3	-9.0	-5.1	8.5	-19.7	-6.9	2.5	-10.1	-3.7	20.9	2.8	12.7
7	-2.8	-22.1	-10.3	10.2	-14.9	-3.3	7.1	-6.8	.3	19.3	3.9	12.3
8	1.1	-22.1	-13.4	11.0	-12.1	-.4	9.2	-4.9	2.6	17.3	.7	8.3
9	2.5	-19.3	-10.8	10.2	-10.5	-1.2	9.9	1.8	5.6	16.5	-.3	7.5
10	5.3	-21.1	-10.3	12.8	-10.1	.0	5.3	-6.0	.6	18.9	-2.4	8.9
11	8.1	-12.1	-3.6	15.0	-10.5	.7	-3.1	-9.4	-6.2	19.7	-2.1	10.2
12	5.7	-14.9	-4.7	12.4	-6.8	2.2	-.3	-9.4	-4.8	18.9	3.9	11.3
13	-2.1	-17.9	-7.8	11.0	-5.7	3.1	4.6	-11.7	-3.5	22.1	-1.4	11.4
14	3.2	-21.6	-10.4	9.5	-7.5	.3	11.0	-9.4	1.2	21.7	-.3	12.6
15	7.1	-12.5	-3.1	11.3	-4.9	3.7	13.1	-2.8	5.3	22.9	.7	13.2
16	9.2	-14.9	-4.4	12.8	-2.1	5.3	16.1	-5.3	5.8	22.5	1.8	13.6
17	8.8	-7.9	1.7	12.1	-2.8	4.3	16.5	-4.9	6.7	24.6	2.5	14.1
18	8.5	-4.2	2.0	11.7	-5.3	2.6	17.7	.0	9.1	21.3	4.9	14.5
19	8.1	-7.1	-1.1	15.4	-5.7	4.4	17.7	-2.8	9.5	18.9	8.5	14.3
20	.4	-8.3	-4.6	19.7	-4.9	6.6	16.5	-1.0	9.8	16.1	5.7	12.2
21	-1.4	-17.4	-7.7	17.3	-2.8	6.5	14.3	.0	6.8	14.3	8.1	10.5
22	.7	-23.1	-10.5	16.9	-4.2	6.5	11.0	.0	4.6	10.6	6.4	8.1
23	-2.8	-11.3	-7.1	16.9	-2.1	6.7	8.5	-2.8	3.3	18.1	.7	10.3
24	-4.9	-13.3	-8.3	7.8	-4.6	.4	6.4	-1.7	1.6	15.4	2.1	9.6
25	.4	-12.1	-6.6	5.3	-14.1	-4.2	11.0	-4.6	3.9	12.8	.0	5.0
26	3.9	-18.8	-7.4	13.5	-8.3	2.4	11.7	-2.1	5.7	10.2	-1.4	4.3
27	2.5	-8.6	-2.1	12.8	-3.1	5.7	17.3	-4.9	7.5	15.0	-1.7	7.7
28	.7	-10.5	-4.0	13.5	-5.3	4.8	14.6	4.6	9.7	17.3	-1.0	9.3
29	---	---	---	5.7	-6.0	-.2	13.1	2.8	9.5	19.7	7.8	13.4
30	---	---	---	15.0	-9.4	2.0	13.5	-4.2	5.5	21.7	6.0	15.3
31	---	---	---	12.1	-2.8	5.5	---	---	---	26.4	3.2	16.1
MONTH	9.2	-23.1	-5.5	19.7	-26.9	.9	17.7	-11.7	3.3	26.4	-5.3	10.5
		JUNE			JULY			AUGUST			SEPTEMBER	
1	26.4	4.9	17.3	23.3	2.5	14.4	26.0	8.1	17.9	21.3	9.5	15.3
2	24.6	3.5	15.5	29.7	-1.4	16.0	27.8	8.5	18.6	27.8	5.7	16.5
3	26.0	2.8	15.3	22.9	.7	13.4	25.5	14.3	18.1	24.6	7.4	16.8
4	26.0	2.5	16.4	26.0	-.7	14.3	20.9	12.4	16.2	21.3	8.8	13.7
5	25.5	1.8	14.4	26.9	.7	15.1	20.5	11.0	15.2	24.6	4.9	14.4
6	22.5	2.5	12.9	28.2	2.1	15.7	19.3	8.5	13.6	20.5	6.4	12.0
7	17.7	4.9	11.8	26.0	6.7	16.3	21.3	5.3	13.8	23.8	3.2	13.1
8	13.9	4.9	8.4	25.5	6.7	16.0	25.5	4.6	15.8	25.1	3.9	14.1
9	14.6	6.0	9.3	25.5	2.1	15.3	25.5	6.7	13.9	21.7	7.1	13.2
10	18.1	7.1	12.4	25.5	3.9	17.0	18.5	7.8	13.2	21.3	6.0	12.8
11	20.1	6.0	15.2	21.7	8.5	16.5	21.3	4.2	12.0	20.9	4.2	12.4
12	---	---	---	26.9	4.2	16.7	23.3	3.2	13.1	22.9	6.0	14.5
13	---	---	---	26.0	4.2	15.8	22.1	4.9	12.7	22.5	3.2	11.3
14	19.3	3.9	13.0	28.2	2.8	16.6	22.9	5.3	14.3	22.9	3.9	12.4
15	17.7	.4	10.4	30.1	2.5	17.7	26.0	4.6	15.7	20.1	6.4	11.5
16	20.1	3.9	13.1	29.2	4.2	17.6	25.1	8.8	17.3	20.5	6.4	13.1
17	22.5	5.3	14.6	29.2	7.4	18.1	26.0	5.7	17.0	21.3	2.1	12.3
18	25.5	3.5	16.4	25.1	8.5	16.1	24.2	9.5	17.3	24.2	7.8	15.6
19	27.3	8.5	18.2	24.2	11.3	16.4	26.4	5.7	16.1	21.7	7.1	15.2
20	26.0	3.5	16.7	25.1	8.5	17.5	27.3	5.3	17.0	22.5	6.4	14.1
21	26.9	1.8	16.1	25.1	6.7	17.2	26.9	5.7	17.0	17.7	7.1	11.7
22	27.8	3.5	17.1	26.0	8.5	17.5	27.3	12.8	19.5	12.4	4.9	8.7
23	25.1	2.8	16.1	24.6	10.2	16.7	26.0	7.1	15.6	14.6	1.1	7.8
24	24.6	2.1	15.2	27.3	5.7	16.9	25.5	8.5	17.1	18.5	-.7	8.8
25	26.4	2.8	15.4	28.7	5.7	18.6	25.5	7.4	15.0	21.3	.0	11.0
26	25.1	3.9	15.1	28.2	10.2	17.1	20.9	9.9	15.0	20.1	8.1	13.3
27	25.1	4.6	15.8	22.9	12.1	15.9	25.5	6.4	16.1	20.1	3.9	13.2
28	25.1	4.9	16.4	22.1	12.8	16.5	26.9	7.1	17.5	19.7	3.2	10.4
29	26.0	4.2	16.4	21.3	12.1	16.3	24.6	7.8	15.2	22.5	.0	10.8
30	27.3	1.8	16.5	19.7	12.1	15.0	24.2	6.4	13.1	23.3	.4	11.1
31	---	---	---	21.7	12.8	16.1	20.9	7.8	14.0	---	---	---
MONTH	---	---	---	30.1	-1.4	16.3	27.8	3.2	15.6	27.8	-.7	12.7

380916107452200 RIDGWAY METEOROLOGICAL STATION AT RIDGWAY, CO--Continued

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.1	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0
2	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
3	2.0	.2	.0	.6	.0	.0	.0	.0	.0	.0	.1	.0
4	.0	.0	.0	.0	.0	.2	.6	.0	.0	.0	.1	.6
5	.0	.0	.1	.1	.3	.1	.1	.0	.1	.0	.2	.0
6	.0	.1	.3	.1	.4	.1	.0	.0	.1	.1	.1	.7
7	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1
8	.0	.0	.0	.1	.0	.0	.0	.1	.3	.1	.0	.0
9	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.5	.0
10	.0	.0	.3	.0	.0	.0	.2	.0	.2	.0	.6	.0
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
12	.0	.0	.0	.1	.2	.0	.0	.0	---	.0	.1	.1
13	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
14	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
15	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
16	.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
18	.0	.0	.0	.0	.0	.0	.0	.1	.0	.2	.0	.0
19	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
20	.4	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
21	.0	.0	.0	.0	.1	.0	.1	.2	.0	.0	.0	.2
22	.0	.1	.0	.0	.0	.1	.1	.6	.0	.0	.0	.1
23	.0	.3	.1	.0	.4	.0	.1	.0	.0	.1	.3	.0
24	.0	.0	.0	.0	.1	.4	.1	.2	.0	.0	.0	.0
25	.0	.0	.0	.4	.0	.1	.0	.5	.0	.0	.2	.0
26	.0	.2	.1	.2	.0	.0	.0	.0	.0	.1	.7	.1
27	.0	.1	.1	.1	.0	.0	.0	.0	.0	.4	.0	.0
28	.4	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0
29	.0	.2	.0	.1	---	.6	.1	.0	.0	.0	.0	.0
30	.0	.2	.0	.0	---	.1	.0	.0	.0	.2	.1	.0
31	.0	---	.0	.0	---	.1	---	.0	---	.1	.1	---
TOTAL	3.3	2.2	1.0	1.9	1.9	1.9	1.7	1.9	---	1.6	3.2	3.1

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.

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	23.3	4.6	13.9	7.8	-4.9	-.6	10.6	-16.6	-5.4	8.5	-4.6	1.3
2	22.9	5.7	13.0	13.1	-7.9	1.9	-1.0	-13.7	-6.0	13.5	-3.1	3.8
3	8.1	3.5	5.9	8.5	-.3	2.3	5.7	-17.4	-5.6	11.0	-2.1	2.4
4	17.3	2.1	8.4	11.3	-.7	3.8	1.1	-15.3	-5.5	3.9	-10.9	-4.4
5	20.5	1.8	9.6	9.2	-2.1	3.4	5.7	-9.0	1.8	-1.7	-11.7	-7.4
6	21.7	1.8	10.6	-.3	-10.5	-4.1	2.8	-7.9	-1.9	.4	-15.7	-9.5
7	21.7	3.2	10.7	4.9	-12.5	-4.3	9.9	-7.9	-2.3	-1.0	-21.1	-11.6
8	23.3	2.1	11.9	9.5	-9.4	-.8	12.8	-8.6	-.6	.7	-12.5	-8.1
9	23.3	2.8	12.6	14.3	-5.3	2.2	13.1	-3.5	3.6	1.4	-11.3	-5.2
10	24.6	3.2	13.4	16.9	-4.6	4.4	8.8	.0	4.2	1.8	-4.2	-2.0
11	24.6	4.9	14.3	19.3	-5.3	3.9	8.5	.4	3.7	-.7	-5.3	-3.1
12	23.8	4.6	13.5	18.5	-3.8	4.9	12.1	-3.8	3.0	3.2	-4.6	-.9
13	24.2	2.1	12.6	17.7	-1.0	7.3	11.7	-4.9	3.1	3.5	-6.0	-.1
14	19.3	2.8	11.5	15.4	-.3	7.4	3.2	-14.1	-4.1	1.4	-8.6	-5.0
15	18.9	.0	9.3	6.7	-3.5	2.5	-2.1	-15.7	-9.8	.4	-18.8	-9.9
16	15.0	1.1	7.9	-1.7	-10.5	-4.9	1.4	-10.9	-3.6	.7	-18.8	-11.4
17	8.1	-5.3	1.4	3.2	-13.7	-3.5	-10.9	-25.7	-16.3	5.3	-19.7	-9.8
18	18.1	-6.8	5.5	8.5	1.4	4.4	-8.3	-26.9	-17.6	6.7	-13.3	-5.6
19	15.4	-.3	9.3	16.9	.0	7.3	-5.3	-17.4	-12.0	12.1	-12.1	-3.0
20	8.1	-5.3	-1.2	15.8	-.3	7.9	.7	-17.9	-6.7	6.7	-8.6	-.9
21	-1.0	-8.6	-5.0	15.0	-2.1	5.4	4.6	-4.2	.8	1.4	-6.4	-2.2
22	7.4	-12.5	-4.2	11.0	.0	6.5	4.6	-2.4	2.3	2.1	-7.1	-3.0
23	11.7	-5.7	1.3	1.1	-4.9	-.3	-1.4	-12.1	-5.2	2.5	-4.9	-1.1
24	11.3	-4.9	3.1	5.7	-7.9	-2.3	5.3	-16.2	-8.3	-.3	-7.9	-3.3
25	8.5	-3.5	2.5	7.4	-3.8	.5	9.2	-12.5	-2.7	4.6	-10.1	-1.1
26	4.2	-9.4	-2.9	3.5	-6.0	-2.0	6.4	-2.8	1.7	3.2	-.3	1.4
27	8.5	-6.4	.3	4.6	-12.9	-5.0	7.8	.0	2.3	7.4	-5.3	-.1
28	6.7	-1.7	1.8	9.2	-14.5	-4.1	4.6	-6.4	.2	4.6	-12.9	-3.5
29	7.8	-3.5	.0	1.4	-5.7	-2.0	9.9	-7.1	-1.0	4.6	-7.1	-2.1
30	11.3	-4.9	2.3	2.1	-16.2	-6.4	8.8	-4.2	.9	7.8	-12.5	-3.7
31	8.5	-4.2	2.4	---	---	---	11.3	-2.4	2.5	9.5	-7.5	1.0
MONTH	24.6	-12.5	6.3	19.3	-16.2	1.2	13.1	-26.9	-2.7	13.5	-21.1	-3.5

381001107412300 DRY CREEK METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10.6	-4.6	2.0	1.1	-11.7	-6.0	4.2	-3.5	-.8	11.7	-1.4	5.7
2	6.7	-5.7	-.1	10.6	-12.5	-.8	9.2	-4.2	1.8	11.0	-4.6	2.9
3	2.1	-7.9	-2.4	4.9	-4.9	1.7	12.8	-1.0	5.4	17.7	1.1	9.5
4	4.9	-11.3	-3.0	-1.0	-12.5	-7.0	3.5	-1.7	.6	19.3	1.4	11.7
5	6.0	-6.0	-1.3	4.2	-19.7	-8.5	-1.7	-9.0	-4.8	21.3	1.8	12.9
6	1.8	-8.6	-4.8	12.8	-13.7	-1.6	2.8	-9.8	-3.6	20.1	5.7	13.7
7	4.2	-16.6	-8.1	12.4	-8.6	.4	7.1	-7.1	.1	19.7	7.1	13.0
8	3.9	-16.6	-8.5	10.2	-6.8	1.9	8.5	-4.6	2.3	18.5	3.9	9.4
9	7.8	-13.7	-6.0	12.1	-6.8	1.7	9.5	.4	5.0	16.9	3.2	9.3
10	7.1	-14.9	-5.2	15.8	-5.7	3.4	3.2	-6.4	-.3	19.7	1.4	10.9
11	9.2	-7.9	-1.1	18.1	-6.4	4.8	3.5	-10.5	-5.0	20.1	1.4	12.2
12	7.4	-10.9	-2.6	13.1	-1.4	5.3	1.1	-10.1	-5.3	19.3	4.9	12.6
13	2.8	-14.9	-6.5	11.3	-2.4	4.6	6.7	-12.5	-3.3	22.1	2.5	12.9
14	6.0	-16.2	-6.1	8.8	-6.4	1.3	12.1	-7.9	2.1	21.3	2.5	13.8
15	9.2	-6.8	.0	12.8	-.3	6.1	14.6	-.3	6.7	23.8	4.9	14.7
16	12.1	-10.5	.1	13.9	.0	7.3	16.9	-2.1	7.5	23.3	4.9	14.9
17	8.5	-1.7	3.8	9.2	-2.1	4.6	16.9	-2.1	8.4	23.3	4.2	14.8
18	11.0	-2.8	2.6	14.3	-4.9	3.2	18.5	2.8	10.1	21.3	8.5	15.3
19	10.2	-5.7	-.2	16.9	-4.6	5.6	17.7	2.5	10.7	19.7	9.9	14.6
20	-.3	-7.1	-3.5	20.5	-1.7	8.0	16.1	1.4	10.5	17.3	6.0	11.6
21	.4	-16.2	-7.4	16.1	1.8	8.7	13.1	.7	7.3	14.6	7.4	10.4
22	2.5	-18.3	-8.2	16.9	-1.4	7.9	12.4	1.1	5.2	10.6	6.4	7.9
23	-3.8	-10.9	-6.9	16.1	1.4	8.5	8.1	-1.7	3.7	17.7	2.5	10.7
24	-.3	-11.3	-7.1	4.9	-4.9	.4	5.3	-2.8	.9	16.1	2.8	9.3
25	2.5	-10.5	-5.2	8.1	-11.3	-2.4	12.4	-4.9	3.6	13.5	.0	5.2
26	7.4	-14.5	-4.6	14.3	-6.8	3.8	13.5	.0	6.4	11.3	-1.4	4.6
27	2.8	-6.4	-1.8	12.1	.7	6.4	18.1	-2.4	8.5	15.8	-1.0	8.5
28	2.1	-9.0	-4.1	12.4	-3.5	5.9	14.6	4.6	9.6	17.3	.7	10.4
29	---	---	---	7.4	-6.4	-.1	12.8	2.1	8.7	18.9	8.5	13.7
30	---	---	---	16.1	-8.6	3.3	12.4	-3.1	5.9	23.3	8.8	16.4
31	---	---	---	12.1	.0	6.6	---	---	---	26.9	6.4	17.5
MONTH	12.1	-18.3	-3.4	20.5	-19.7	2.7	18.5	-12.5	3.6	26.9	-4.6	11.3
		JUNE			JULY			AUGUST			SEPTEMBER	
1	26.4	9.2	18.8	24.2	7.8	16.8	27.3	9.9	18.6	21.3	9.5	15.7
2	24.6	8.8	17.3	28.7	3.5	18.1	28.2	10.6	19.4	28.2	8.1	18.0
3	27.3	4.9	16.6	24.6	5.3	15.7	24.6	15.0	18.0	25.5	10.6	18.2
4	26.0	5.7	17.6	26.9	3.5	16.3	22.1	13.1	16.4	20.9	9.2	14.0
5	25.1	7.1	16.6	26.9	5.7	17.3	22.5	11.7	15.6	26.4	7.1	16.0
6	22.9	7.4	14.4	26.9	6.0	17.0	20.1	9.5	14.0	21.7	8.8	13.0
7	17.7	6.7	12.2	26.0	10.2	16.8	22.5	7.1	14.8	25.1	6.7	15.3
8	14.3	4.9	8.3	25.5	9.9	17.5	25.5	8.1	17.3	26.0	7.4	16.3
9	15.4	5.7	9.1	26.4	6.4	17.3	25.1	10.2	15.2	24.2	10.2	15.1
10	17.7	7.4	12.1	26.9	8.5	18.6	19.3	8.1	13.3	22.1	8.5	14.1
11	21.7	6.4	14.4	22.9	9.9	17.0	20.9	6.7	13.0	21.7	7.8	13.4
12	20.1	.0	12.6	26.0	9.2	18.0	22.5	5.7	13.7	23.3	9.2	15.6
13	20.1	5.7	14.1	26.4	6.7	17.3	22.1	7.4	13.2	21.7	6.4	12.8
14	20.5	5.3	13.6	29.2	6.0	18.6	21.7	7.8	14.8	23.3	6.4	13.8
15	18.1	3.9	11.6	31.1	6.7	19.9	25.5	8.8	17.6	19.7	8.1	12.0
16	20.9	6.4	14.0	29.7	9.2	20.1	26.0	11.7	18.8	20.5	9.2	14.2
17	24.6	6.7	15.7	27.8	12.4	19.7	27.3	9.2	18.3	21.3	6.0	13.6
18	25.1	6.7	17.0	26.0	11.3	17.2	23.3	11.7	17.4	22.9	10.2	16.9
19	26.9	9.9	18.8	25.5	11.3	17.0	26.4	9.2	17.3	21.7	9.9	15.9
20	26.0	9.5	18.6	26.9	9.5	17.9	29.2	8.1	18.4	22.1	7.4	14.2
21	26.9	2.0	17.5	27.3	9.5	18.7	27.3	8.5	18.8	19.3	6.7	11.3
22	28.7	8.1	19.0	26.4	11.7	18.2	27.3	13.5	19.8	12.8	5.3	8.4
23	26.9	7.8	17.8	23.8	11.3	16.2	25.5	9.9	16.8	15.8	2.1	8.4
24	26.4	5.3	16.8	27.8	7.8	18.4	24.6	9.5	18.1	18.9	1.8	10.4
25	24.6	5.7	16.6	29.7	2.2	19.7	26.0	11.0	16.0	22.9	3.9	12.9
26	26.0	.0	15.9	27.8	12.8	18.4	21.3	10.6	15.2	19.7	10.2	13.8
27	24.6	8.1	16.5	24.6	11.7	15.8	27.8	8.5	17.3	20.9	6.7	13.6
28	25.5	8.5	17.7	23.3	12.8	16.7	27.8	9.9	18.6	21.7	5.3	12.0
29	26.0	9.2	18.1	22.5	11.7	16.4	25.1	9.9	16.5	24.2	3.5	13.3
30	26.9	7.1	18.6	21.3	11.7	14.9	24.6	8.8	14.3	25.5	4.6	13.6
31	---	---	---	22.9	12.8	16.1	22.5	10.2	14.4	---	---	---
MONTH	28.7	.0	15.6	31.1	2.2	17.5	29.2	5.7	16.5	28.2	1.8	13.9
YEAR	31.1	-26.9	6.6									

381001107412300 DRY CREEK METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.0	.0	.1	.0	.0	.1	.2	.2	.0	.0	.0	.0
2	.1	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0
3	1.8	.2	.1	.5	.1	.0	.0	.0	.1	.0	.3	.0
4	.0	.0	.1	.1	.1	.0	.7	.0	.1	.0	.1	.4
5	.0	.0	.1	.1	.2	.1	.2	.0	.0	.1	.1	.1
6	.0	.1	.3	.2	.4	.1	.0	.1	.1	.1	.2	.6
7	.1	.1	.0	.1	.1	.1	.0	.1	.1	.1	.0	.1
8	.0	.0	.1	.1	.1	.3	.0	.1	.5	.0	.0	.0
9	.0	.0	.0	.1	.1	.1	.1	.0	.9	.0	.3	.0
10	.0	.0	.1	.1	.1	.1	.2	.0	.2	.0	.6	.0
11	.0	.0	.1	.0	.1	.1	.1	.0	.1	.0	.0	.1
12	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.2	.1
13	.0	.1	.0	.0	.2	.0	.0	.1	.0	.0	.1	.0
14	.0	.0	.0	.2	.1	.0	.0	.1	.0	.0	.0	.0
15	.0	.1	.0	.1	.1	.0	.0	.1	.0	.0	.0	.5
16	.1	.6	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0
17	.0	.2	.0	.1	.0	.0	.1	.0	.0	.1	.0	.1
18	.0	.0	.1	.1	.0	.1	.1	.0	.1	.1	.0	.1
19	.0	.1	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0
20	.4	.0	.1	.0	.3	.1	.0	.1	.0	.0	.0	.0
21	.1	.0	.1	.1	.2	.0	.0	.1	.0	.0	.0	.1
22	.0	.0	.0	.0	.1	.1	.1	.7	.0	.0	.0	.1
23	.1	.4	.0	.0	.3	.0	.1	.1	.0	.2	.0	.1
24	.0	.1	.1	.0	.2	.4	.2	.1	.0	.0	.0	.0
25	.0	.0	.0	.5	.0	.1	.1	.5	.0	.0	.5	.0
26	.0	.2	.0	.0	.1	.1	.0	.1	.0	.0	.8	.0
27	.0	.2	.2	.0	.0	.1	.0	.1	.0	.2	.1	.1
28	.3	.1	.0	.1	.1	.0	.1	.1	.0	.0	.0	.0
29	.0	.1	.0	.2	---	.7	.0	.0	.0	.0	.0	.0
30	.0	.2	.0	.1	---	.1	.1	.0	.0	.1	.1	.1
31	.0	---	.0	.1	---	.1	---	.1	---	.1	.0	---
TOTAL	3.0	2.8	1.8	3.2	3.3	3.0	2.5	2.9	2.2	1.2	3.4	2.6

WTR YR 1997 TOTAL 31.9

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 rainfall data for water years 1992 and 1993 are available in district office. Daily record for air temperature and precipitation is fair. Periods of missing record are caused by instrument malfunction.

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	23.8	3.9	13.1	5.7	-4.6	-.2	7.4	-15.3	-4.6	---	---	---
2	23.8	7.8	14.0	11.3	-5.7	1.9	.0	-13.7	-4.9	---	---	---
3	9.9	.0	7.1	8.1	.0	3.1	2.5	-15.3	-4.7	---	---	---
4	16.1	3.2	8.5	9.9	.0	4.3	1.8	-9.4	-4.4	---	---	---
5	---	---	---	11.3	-1.4	4.0	7.8	-8.3	2.8	---	---	---
6	---	---	---	-1.4	-7.1	-3.5	.4	-2.1	-.1	---	---	---
7	---	---	---	5.7	-9.8	-2.9	---	---	---	---	---	---
8	---	---	---	8.5	-8.3	-.5	---	---	---	---	---	---
9	---	---	---	11.0	-6.4	1.6	---	---	---	---	---	---
10	---	---	---	13.5	-4.9	3.3	---	---	---	---	---	---
11	---	---	---	14.3	-4.9	2.9	---	---	---	---	---	---
12	---	---	---	15.0	-5.3	5.3	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	1.8	-15.3	-4.1
16	---	---	---	---	---	---	---	---	---	10.3	-18.3	-10.1
17	---	---	---	---	---	---	---	---	---	3.5	-18.3	-9.8
18	16.9	4.9	12.8	---	---	---	---	---	---	3.2	-14.1	-6.7
19	16.5	-.3	10.4	---	---	---	---	---	---	7.4	-12.9	-4.0
20	2.5	-4.2	-1.6	---	---	---	---	---	---	5.3	-9.4	-1.3
21	-.3	-8.6	-4.2	---	---	---	---	---	---	3.2	-6.0	-1.2
22	5.7	-10.5	-3.1	---	---	---	---	---	---	3.9	-7.1	-2.0
23	10.6	-5.3	1.7	---	---	---	---	---	---	5.3	-3.5	.0
24	12.4	-3.5	4.5	---	---	---	---	---	---	3.2	-9.4	-2.3
25	8.8	-2.1	3.8	---	---	---	---	---	---	5.3	-7.5	.0
26	3.9	-7.9	-1.4	---	---	---	---	---	---	5.3	-1.0	2.3
27	6.0	-3.8	1.2	2.8	-10.5	-.9	---	---	---	5.7	-3.8	.7
28	7.1	-.3	2.5	6.0	-11.7	-3.1	---	---	---	5.7	-9.4	-2.2
29	7.8	-2.4	1.2	4.6	-3.1	-1.1	---	---	---	5.3	-6.0	-1.6
30	9.9	-2.8	2.6	.7	-14.1	-6.4	---	---	---	6.4	-10.9	-2.9
31	11.0	-3.5	2.4	---	---	---	---	---	---	8.1	-7.5	.3
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

381422107453000 RIDGWAY RESERVOIR METEOROLOGICAL STATION NEAR RIDGWAY, CO

TEMPERATURE, AIR (DEG.C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.4	-4.2	1.1	1.1	-9.8	-5.3	4.2	-3.1	-.8	12.4	-.3	6.4
2	8.5	-5.3	1.0	11.0	-11.7	-.3	10.2	-3.5	1.7	10.6	-3.8	3.6
3	2.1	-5.7	-1.3	7.1	-3.1	1.9	11.3	.4	5.6	18.9	.4	9.4
4	4.6	-8.6	-2.4	-3.1	-12.9	-6.3	4.2	-.7	1.2	20.9	3.2	12.1
5	4.6	-6.4	-1.5	1.4	-17.4	-8.1	-.3	-7.5	-3.7	21.3	3.9	13.3
6	3.2	-7.5	-4.5	9.2	-12.9	-2.7	3.9	-9.8	-2.8	23.3	7.4	14.8
7	.0	-14.1	-7.8	12.8	-7.5	.6	8.1	-4.9	1.8	20.1	7.4	13.6
8	3.5	-14.9	-7.9	12.1	-6.0	2.4	9.2	-3.1	3.1	18.9	3.9	9.7
9	3.5	-12.9	-6.0	10.6	-6.4	1.6	10.6	1.4	6.2	13.5	2.8	8.5
10	4.2	-12.5	-4.7	15.0	-4.9	3.7	5.3	-5.7	1.1	19.7	1.4	10.9
11	7.4	-5.3	-.5	16.9	-5.3	4.5	-2.4	-9.0	-5.9	20.9	2.8	12.3
12	6.7	-8.6	-1.4	16.5	.0	6.9	1.1	-9.0	-4.4	19.3	4.9	12.3
13	1.8	-12.9	-5.9	12.8	-2.1	5.6	4.9	-11.3	-3.0	22.5	3.5	13.4
14	2.5	-15.3	-6.7	10.6	-5.3	2.3	12.1	-7.1	2.6	22.9	4.6	14.3
15	6.7	-7.5	-.3	14.6	-1.4	6.3	13.5	.0	6.6	23.8	5.7	15.4
16	9.2	-8.6	-.4	14.6	1.1	7.8	16.1	-2.4	7.1	23.8	6.4	15.4
17	9.5	-3.1	3.1	12.8	-1.0	5.5	18.5	-.7	9.1	25.5	7.4	16.3
18	9.9	-2.4	2.5	13.1	-3.8	3.7	18.9	3.5	10.8	22.1	9.2	16.0
19	9.2	-4.2	.6	16.5	-3.1	6.1	18.9	2.5	11.5	20.1	10.2	15.9
20	.4	-6.0	-2.8	20.9	-.3	8.5	16.9	1.8	11.0	17.3	7.1	12.9
21	.7	-13.7	-5.8	19.3	2.1	9.6	15.0	1.4	7.8	15.4	8.8	11.5
22	.7	-16.6	-7.3	17.7	.7	8.8	11.3	1.4	6.1	11.7	8.1	8.8
23	-2.1	-8.6	-5.7	17.7	2.5	9.4	9.2	-1.0	4.4	19.3	3.5	11.4
24	-4.9	-9.8	-7.3	6.4	-4.6	.7	6.0	-1.0	1.7	16.9	3.9	10.4
25	.4	-9.0	-4.6	5.7	-11.3	-2.7	12.1	-2.4	5.3	12.8	.4	5.9
26	3.5	-13.7	-4.3	13.9	-5.3	3.8	12.8	-.3	6.9	10.6	-.3	5.2
27	3.2	-3.5	-.6	14.6	-1.0	7.5	18.9	-1.4	9.1	16.1	.0	8.8
28	2.8	-7.5	-2.0	14.3	-2.4	6.2	16.5	6.7	10.7	18.1	2.1	10.7
29	---	---	---	6.0	-3.8	.6	13.9	4.6	9.8	20.9	9.5	14.3
30	---	---	---	16.5	-6.4	4.1	13.5	-2.1	6.5	22.5	9.5	16.3
31	---	---	---	12.8	.7	6.4	---	---	---	26.9	7.4	17.9
MONTH	9.9	-16.6	-3.0	20.9	-17.4	3.2	18.9	-11.3	4.2	26.9	-3.8	11.9
		JUNE			JULY			AUGUST			SEPTEMBER	
1	27.8	11.0	19.6	25.1	7.1	17.5	26.9	11.0	19.8	22.1	11.3	16.6
2	25.5	9.5	18.3	30.1	5.3	19.0	27.8	12.1	20.6	28.7	9.5	18.7
3	26.4	5.7	16.6	23.8	6.0	15.6	25.5	14.6	19.0	26.4	11.3	18.7
4	27.8	7.4	18.5	27.3	5.3	17.0	22.5	13.5	16.9	22.1	10.6	14.9
5	26.4	7.1	17.4	27.3	6.7	18.3	20.9	13.1	16.4	25.5	8.5	16.2
6	25.1	7.8	14.9	27.8	7.8	19.0	19.7	10.6	15.3	22.5	9.2	13.7
7	18.9	7.8	12.7	27.8	10.2	17.5	23.8	7.8	15.6	24.6	7.8	15.3
8	14.6	5.7	9.3	26.9	11.0	19.1	27.3	9.2	18.3	26.0	7.8	16.5
9	15.0	6.7	10.1	26.9	8.1	18.3	25.5	12.1	17.0	22.5	10.6	15.5
10	20.1	9.2	13.1	26.9	9.5	19.5	20.5	10.2	14.6	21.7	9.5	14.7
11	22.9	7.1	14.7	23.3	12.1	18.4	22.9	8.1	14.3	21.3	7.8	14.2
12	22.9	.0	13.2	26.9	8.5	18.5	23.8	7.1	15.1	24.6	9.5	17.0
13	21.7	7.8	15.7	26.0	7.8	17.9	23.3	8.5	15.1	22.5	7.1	13.5
14	20.9	7.1	14.6	29.2	7.8	19.3	24.6	7.8	15.5	24.2	8.1	15.1
15	19.7	3.5	12.3	31.1	9.5	21.2	27.3	9.9	19.5	20.5	9.9	13.2
16	20.9	6.4	14.3	30.6	10.2	21.7	26.9	14.3	20.3	20.9	9.2	15.1
17	23.8	8.5	16.1	29.7	15.0	21.2	27.8	11.0	19.7	23.3	6.4	15.0
18	27.3	7.8	18.4	27.8	12.8	18.2	23.8	13.1	17.5	25.1	10.2	17.5
19	28.7	12.1	20.2	25.1	12.8	17.7	26.0	8.8	18.0	24.2	9.9	16.9
20	27.8	10.2	20.4	26.4	10.6	18.9	28.7	10.2	19.3	24.2	9.2	15.2
21	28.7	10.2	19.7	27.3	11.0	19.7	28.2	10.6	19.3	17.7	8.1	11.8
22	29.2	9.2	19.9	26.9	12.4	19.2	28.2	14.6	20.3	15.0	6.4	10.2
23	26.9	9.5	18.8	25.5	13.1	17.7	27.8	11.0	18.0	15.4	3.2	9.3
24	25.5	7.4	17.6	27.8	9.9	19.1	26.9	11.7	18.1	18.5	2.5	10.6
25	27.3	6.4	17.5	29.7	10.2	21.0	26.4	11.3	16.5	21.3	4.6	13.3
26	26.4	7.1	17.3	28.7	13.9	19.2	20.1	11.3	15.7	21.7	11.7	14.4
27	26.4	8.8	18.0	22.1	13.1	17.0	26.0	9.2	17.6	20.9	7.4	14.3
28	26.4	9.2	19.1	24.2	14.3	18.2	29.2	9.5	19.5	20.5	7.1	12.5
29	26.4	9.5	19.1	22.5	13.5	17.7	26.4	11.7	17.9	23.3	4.9	13.4
30	28.2	7.8	19.4	19.7	12.8	15.7	25.1	9.5	15.5	23.8	6.0	14.6
31	---	---	---	22.5	13.5	16.8	21.7	9.9	14.7	---	---	---
MONTH	29.2	.0	16.6	31.1	5.3	18.6	29.2	7.1	17.4	28.7	2.5	14.6

381422107453000 RIDGWAY RESERVOIR METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.0	.0	.1	---	.0	.1	.2	.3	.1	.0	.0	.0
2	.1	.0	.0	---	.0	.0	.1	.1	.0	.1	.0	.0
3	1.7	.2	.1	---	.0	.1	.0	.0	.0	.0	.4	.0
4	.1	.0	.0	---	.0	.2	.6	.0	.1	.1	.1	.4
5	---	.0	.0	---	.1	.0	.1	.1	.1	.0	.2	.0
6	---	.0	.0	---	.2	.0	.0	.1	.0	.1	.0	.1
7	---	.0	---	---	.0	.0	.0	.1	.2	.0	.1	.0
8	---	.0	---	---	.0	.1	.0	.1	.3	.0	.1	.0
9	---	.0	---	---	.0	.0	.1	.0	.8	.0	.2	.0
10	---	.0	---	---	.0	.0	.2	.1	.1	.0	.3	.0
11	---	.0	---	---	.0	.0	.0	.0	.1	.1	.1	.1
12	---	.0	---	---	.2	.1	.0	.1	.1	.1	.3	.0
13	---	---	---	---	.1	.0	.0	.1	.0	.1	.1	.1
14	---	---	---	---	.0	.0	.1	.1	.1	.1	.1	.0
15	---	---	---	.0	.0	.1	.1	.0	.0	.0	.0	.6
16	---	---	---	.1	.0	.0	.1	.1	.0	.1	.0	.0
17	---	---	---	.0	.0	.0	.1	.1	.0	.1	.0	.1
18	.0	---	---	.0	.0	.0	.2	.1	.1	.1	.1	.0
19	.3	---	---	.0	.0	.0	.0	.1	.0	.1	.0	.0
20	.2	---	---	.0	.3	.0	.1	.1	.0	.1	.0	.1
21	.0	---	---	.0	.1	.0	.1	.1	.0	.0	.1	.1
22	.0	---	---	.0	.0	.0	.1	.6	.1	.0	.0	.0
23	.0	---	---	.1	.2	.1	.2	.1	.1	.3	.1	.0
24	.0	---	---	.0	.1	.4	.2	.0	.0	.1	.1	.0
25	.1	---	---	.3	.0	.0	.0	.6	.0	.0	.4	.0
26	.0	---	---	.1	.0	.1	.1	.1	.0	.1	.1	.1
27	.0	.0	---	.1	.0	.0	.0	.0	.0	.2	.1	.1
28	.3	.0	---	.0	.0	.0	.0	.0	.1	.1	.0	.0
29	.0	.2	---	.0	---	.3	.1	.0	.1	.1	.0	.0
30	.0	.2	---	.1	---	.0	.0	.1	.1	.2	.0	.0
31	.0	---	---	.0	---	.1	---	.1	---	.2	.0	---
TOTAL	---	---	---	---	1.3	1.7	2.8	3.4	2.6	2.5	3.0	1.8

MISCELLANEOUS STATION ANALYSES

09019500 COLORADO RIVER NEAR GRANBY, CO (LAT 40 07 15N LONG 105 54 00W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996					JUN 1997				
09...	1630	28	68	12.0	05...	1830	1520	55	10.0
APR 1997					JUL				
30...	1500	44	87	5.5	10...	1443	71	64	14.5

09024000 FRASER RIVER AT WINTER PARK, CO (LAT 39 54 00N LONG 105 46 34W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996					MAY 1997				
07...	1344	23	78	6.0	08...	1029	13	157	3.5
NOV					JUN				
06...	1500	6.4	99	0.0	06...	1419	226	48	4.5
JAN 1997					JUL				
08...	1000	5.9	120	0.0	08...	1043	59	57	6.0
MAR					AUG				
11...	1240	6.2	163	1.5	11...	1547	30	76	9.0
APR					SEP				
09...	1523	7.1	219	4.0	10...	1241	16	83	10.0

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)	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 1996					MAY 1997				
08...	0922	6.1	46	3.0	08...	1732	12	59	5.5
NOV					JUL				
07...	1040	4.3	46	0.0	08...	1406	9.3	38	10.5
JAN 1997					AUG				
07...	1120	8.8	40	0.0	11...	1720	9.8	39	9.0
MAR					SEP				
11...	1150	6.9	59	0.5	12...	0953	9.3	44	8.5
APR									
09...	1445	9.9	59	0.0					

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)	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 1996					JUN 1997				
08...	1154	0.86	49	3.0	10...	1300	21	32	3.0
NOV					JUL				
07...	1710	0.68	30	0.0	07...	1749	5.5	72	7.5
JAN 1997					AUG				
09...	1050	0.67	51	0.0	12...	1315	1.7	42	7.0
MAR					SEP				
13...	1215	0.39	56	0.5	09...	1233	0.96	49	8.0
APR									
10...	1114	0.46	58	1.0					
30...	1308	0.70	62	1.0					

09026500 ST. LOUIS CREEK NEAR FRASER, CO (LAT 39 54 36N LONG 105 52 40W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996					MAY 1997				
08...	1425	19	76	6.0	08...	1529	15	94	6.0
NOV					JUN				
07...	1133	6.5	96	0.0	10...	1600	238	60	6.0
JAN 1997					JUL				
08...	1616	9.0	94	0.0	07...	1540	24	92	12.5
MAR					AUG				
12...	1420	6.1	96	0.5	12...	1145	16	82	7.5
APR					SEP				
10...	1013	4.5	101	0.5	10...	0919	14	82	7.0
18...	0930	4.1	102	0.0					

MISCELLANEOUS STATION ANALYSES--Continued

09032000 RANCH CREEK NEAR FRASER, CO (LAT 39 57 00N LONG 105 45 54W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
09...	1130	11	43	3.5
NOV				
08...	1412	2.7	50	0.0
JAN 1997				
08...	--	2.3	45	0.0
FEB				
27...	0835	1.8	57	0.0
MAR				
19...	--	2.5	33	0.0
20...	0930	2.5	58	0.0
21...	0930	2.5	58	0.0
APR				
08...	1545	2.6	58	1.0
09...	1545	2.6	58	1.0
29...	--	4.6	59	0.5
MAY 1997				
01...	1315	4.4	58	1.0
JUN				
06...	--	284	26	3.5
18...	0923	116	22	3.5
JUL				
09...	--	47	31	8.5
17...	1530	7.8	40	11.0
AUG				
04...	1630	8.9	39	12.0
12...	--	5.8	48	9.5
SEP				
09...	1400	3.8	48	9.5

09032100 CABIN CREEK NEAR FRASER, CO (LAT 39 59 09N LONG 105 44 40W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
09...	0910	6.0	40	2.0
NOV				
08...	1145	3.7	43	0.0
JAN 1997				
08...	1130	1.9	45	0.0
APR				
21...	1246	2.9	29	0.0
MAY				
08...	1348	8.0	33	2.5
JUN 1997				
04...	1600	67	24	7.5
JUL				
09...	1105	19	33	8.0
AUG				
12...	1518	1.2	38	10.5
SEP				
10...	1423	3.8	45	13.0

400016105490800 MEADOW CREEK AT MOUTH NEAR TABERNASH, CO (LAT 40 00 16N LONG 105 49 08W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
MAY 1997				
29...	1240	40	44	5.0
JUN				
10...	1147	134	25	4.5
JUL				
09...	1600	1.5	64	16.5
AUG 1997				
13...	1022	0.38	87	9.5
SEP				
08...	1424	0.17	99	15.5

09034250 COLORADO RIVER AT WINDY GAP, NEAR GRANBY, CO (LAT 40 06 30N LONG 106 00 13W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
18...	1330	71	126	6.5
NOV				
14...	1300	89	136	5.0
DEC				
11...	1350	--	138	0.0
APR 1997				
09...	0915	187	162	3.5
MAY				
02...	1120	481	157	3.5
JUN 1997				
04...	1230	3110	73	10.0
JUL				
10...	1156	406	121	15.5
AUG				
05...	1330	577	84	12.0
06...	1330	577	84	12.0

09034900 BOBTAIL CREEK NEAR JONES PASS, CO (LAT 39 45 37N LONG 105 54 21W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
11...	1403	3.6	56	8.0
NOV				
05...	--	2.5	59	0.0
MAR 1997				
13...	1445	0.84	69	0.0
JUN				
04...	1405	76	34	2.0
20...	1435	143	26	4.0
JUL 1997				
21...	1240	27	39	9.0
AUG				
20...	1230	9.4	50	8.5
SEP				
17...	1440	3.7	56	9.5

09035500 WILLIAMS FORK BELOW STEELMAN CREEK, CO (LAT 39 46 44N LONG 105 55 40W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
11...	1318	4.2	--	5.0
NOV				
05...	1210	7.5	58	0.0
MAR 1997				
13...	1210	3.1	68	0.0
APR				
29...	1030	5.4	61	0.0
JUN 1997				
04...	1033	154	34	2.0
20...	1235	277	30	4.0
JUL				
21...	1025	63	41	6.0
AUG				
20...	1000	26	50	5.0
SEP				
17...	1200	13	57	5.5

MISCELLANEOUS STATION ANALYSES--Continued

09035700 WILLIAMS FORK ABOVE DARLING CREEK, NEAR LEAL, CO (LAT 39 47 22N LONG 106 01 18W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996					JUN 1997				
08...	0936	21	60	3.0	09...	1135	348	35	3.0
NOV					JUL				
04...	0955	16	60	0.0	07...	1012	173	39	5.5
MAR 1997					AUG				
12...	1155	8.6	69	0.0	04...	1153	28	56	13.5
APR					SEP				
07...	1540	16	80	0.0	02...	1018	28	59	10.0
MAY									
05...	1014	22	61	3.0					

09035800 DARLING CREEK NEAR LEAL, CO (LAT 39 48 17N LONG 106 01 11W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996					JUN 1997				
08...	0835	4.4	72	2.5	09...	0930	74	43	2.0
NOV					JUL				
04...	0938	3.9	71	0.5	07...	0900	35	51	4.5
MAR 1997					AUG				
12...	0940	2.2	80	0.0	04...	1050	9.8	65	8.5
APR					SEP				
07...	0953	2.7	80	0.0	02...	0905	5.6	75	8.0
MAY									
05...	0907	4.2	75	0.5					

09035900 SOUTH FORK OF WILLIAMS FORK NEAR LEAL, CO (LAT 39 47 44N LONG 106 01 49W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996					JUN 1997				
08...	1115	17	81	3.5	09...	1220	241	47	4.0
NOV					JUL				
04...	1200	16	80	0.0	07...	1134	106	51	6.0
MAR 1997					AUG				
12...	1400	10	89	0.0	04...	1257	44	68	12.0
APR					SEP				
07...	1540	19	86	0.0	02...	1225	21	81	11.0
MAY									
05...	1144	16	82	2.5					

09036000 WILLIAMS FORK NEAR LEAL, CO (LAT 39 49 53N LONG 106 03 15W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996					MAY 1997				
08...	1335	55	75	7.0	05...	1442	64	77	9.0
11...	0755	--	--	--	JUL				
NOV					08...	0718	395	49	6.0
04...	1240	50	73	1.5	SEP				
MAR 1997					02...	1330	72	73	12.5
12...	1535	22	85	2.5					

09037500 WILLIAMS FORK NEAR PARSHALL, CO (LAT 40 00 01N LONG 106 10 45W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996					JUN 1997				
09...	0910	81	95	5.0	10...	0940	984	48	4.5
NOV					JUL				
05...	0820	49	94	0.5	08...	0923	331	72	9.0
MAR 1997					AUG				
13...	0830	46	100	0.0	05...	0801	161	75	12.0
APR					SEP				
08...	1230	50	96	3.0	03...	0837	94	88	12.0
MAY									
06...	0808	207	77	3.0					

09038500 WILLIAMS FORK BELOW WILLIAMS FORK RESERVOIR, CO (LAT 40 02 07N LONG 106 12 17W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996					JUN 1997				
09...	1047	236	72	9.0	03...	0950	452	96	5.5
NOV					10...	1015	496	84	9.0
05...	0935	112	90	7.0	AUG				
MAR 1997					05...	0918	167	76	9.0
13...	0922	119	102	2.5	SEP				
APR					03...	1007	102	75	9.5
08...	1307	113	106	2.5					
MAY									
06...	0913	114	98	4.5					

MISCELLANEOUS STATION ANALYSES--Continued

09041000 MUDDY CREEK NEAR KREMMLING, CO (LAT 40 17 37N LONG 106 28 59W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
DEC 1996				
09...	1430	16	278	0.0
MAR 1997				
04...	1340	11	--	0.0
APR				
25...	1320	151	356	4.5
MAY				
08...	1320	459	226	6.5
15...	1215	676	153	6.0
JUN 1997				
03...	1000	820	93	5.0
11...	1600	347	125	10.5
JUL				
09...	1100	38	357	15.0
AUG				
13...	1130	27	269	11.5

09046490 BLUE RIVER AT BLUE RIVER, CO (LAT 39 27 21N LONG 106 01 52W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
18...	1057	22	145	5.5
NOV				
12...	1356	12	154	4.5
JAN 1997				
15...	1218	6.6	172	0.5
MAR				
13...	0935	4.3	177	0.5
APR				
17...	1015	8.8	181	1.5
MAY				
22...	1521	129	132	4.5
JUN 1997				
12...	0955	220	123	7.0
JUL				
02...	1036	163	89	9.5
30...	0740	130	91	10.5
AUG				
14...	1026	99	96	9.0
SEP				
10...	1348	29	116	12.5

09046600 BLUE RIVER NEAR DILLON, CO (LAT 39 34 00N LONG 106 02 56W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
08...	1615	63	159	9.5
17...	1650	71	160	7.0
NOV				
12...	1518	44	163	6.0
13...	1330	46	163	7.5
DEC				
13...	1225	45	167	4.5
JAN 1997				
15...	1010	32	169	1.5
16...	1310	41	170	3.0
FEB				
21...	1315	41	176	4.5
MAR				
12...	1520	26	182	7.0
19...	0915	24	184	3.0
APR				
03...	0950	43	197	3.5
15...	1400	41	196	7.0
18...	1045	51	191	5.5
24...	1320	78	193	3.0
28...	1310	73	188	6.5
MAY				
07...	1020	109	173	4.5
22...	0830	468	128	4.5
22...	1345	498	125	5.0
MAY 1997				
27...	1630	342	130	6.0
28...	1435	310	130	6.5
JUN				
03...	1240	716	111	8.0
03...	1310	922	111	8.0
10...	1625	670	106	7.0
12...	1630	606	110	8.0
17...	1500	592	107	7.5
24...	1530	659	96	9.0
JUL				
03...	0744	404	100	7.0
08...	1050	324	102	9.0
08...	1110	324	102	9.0
17...	0855	244	111	8.5
31...	1015	248	105	11.0
31...	1025	258	105	11.0
AUG				
11...	1825	208	114	10.5
12...	1009	196	113	9.5
18...	1025	156	--	--
18...	1035	164	114	10.0
SEP				
09...	1028	96	135	11.0
22...	1040	86	136	10.0
22...	1105	86	136	10.0

09047500 SNAKE RIVER NEAR MONTEZUMA, CO (LAT 39 36 20N LONG 105 56 33W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
16...	1540	37	102	0.5
NOV				
15...	0932	27	118	0.5
JAN 1997				
14...	1500	16	128	0.0
MAR				
12...	1030	17	158	0.0
APR				
18...	1230	19	162	1.5
MAY 1997				
23...	0906	199	94	2.0
JUN				
13...	1231	496	63	5.5
JUL				
01...	0900	361	56	4.0
AUG				
13...	1419	120	81	9.0
SEP				
08...	1200	58	98	8.0

MISCELLANEOUS STATION ANALYSES--Continued

09047700 KEYSTONE GULCH NEAR DILLON, CO (LAT 39 35 40N LONG 105 58 19W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
17...	1005	3.2	82	0.0
NOV				
12...	1141	4.7	86	0.5
JAN 1997				
15...	1541	2.8	84	0.0
MAR				
12...	1236	2.8	91	0.0
APR				
18...	1434	3.2	91	3.0
MAY 1997				
22...	1826	45	66	2.5
JUN				
12...	1345	48	54	6.5
JUL				
01...	1245	36	59	7.5
AUG				
13...	1723	6.9	76	9.5

09050100 TENMILE CREEK BELOW NORTH TENMILE CREEK, AT FRISCO, CO (LAT 39 34 37N LONG 106 06 33W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
17...	1300	27	506	2.0
NOV				
15...	1105	26	554	2.0
JAN 1997				
16...	1015	18	64	0.0
MAR				
11...	1420	36	1230	1.5
APR				
17...	1236	44	980	5.0
MAY 1997				
23...	1240	413	282	5.0
JUN				
13...	0947	761	244	4.0
30...	1357	464	215	10.0
AUG				
11...	1405	120	323	10.5
SEP				
10...	0852	58	517	7.0

09050700 BLUE RIVER BELOW DILLON, CO (LAT 39 37 32N LONG 106 03 57W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
17...	1132	105	181	7.0
NOV				
14...	0905	107	187	5.5
JAN 1997				
14...	1154	102	209	2.5
MAR				
11...	1252	151	293	3.0
MAY				
08...	1100	497	260	3.0
23...	1542	1110	225	4.0
JUN 1997				
04...	1045	1400	232	4.0
12...	1525	1740	216	5.0
JUL				
02...	1324	905	205	5.5
09...	1145	760	200	6.0
AUG				
12...	1455	520	159	13.0
20...	0805	369	152	12.5
SEP				
09...	1326	228	170	11.0
23...	0815	101	171	7.0

09051050 STRAIGHT CREEK BELOW LASKEY GULCH NEAR DILLON, CO (LAT 39 38 23N LONG 106 02 23W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
16...	1237	7.8	135	3.0
NOV				
13...	1707	8.0	154	0.5
22...	1222	7.3	239	2.0
JAN 1997				
14...	1330	4.4	148	0.0
MAR				
11...	1100	3.3	320	0.0
APR 1997				
15...	1135	4.2	330	2.0
JUN				
10...	0951	110	87	3.5
30...	1140	90	66	6.0
AUG				
13...	0944	21	95	6.5
SEP				
09...	1450	10	123	11.0

09058500 PINEY RIVER BELOW PINEY LAKE, NEAR MINTURN, CO (LAT 39 42 29N LONG 106 25 38W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
07...	1240	12	40	8.0
DEC				
05...	1005	5.1	55	0.0
JAN 1997				
15...	1000	3.2	62	0.0
MAR				
12...	0930	3.4	71	0.0
APR				
15...	1450	6.6	73	2.0
MAY 1997				
28...	1135	64	32	6.0
JUN				
05...	1410	210	30	6.5
24...	1315	166	24	8.5
JUL				
29...	1135	43	31	12.5
SEP				
10...	1110	5.7	49	11.5

09058610 DICKSON CREEK NEAR VAIL, CO (LAT 39 42 14N LONG 106 27 25W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
08...	1405	1.6	368	9.5
JAN 1997				
16...	1655	0.49	--	0.0
MAR				
12...	1240	0.92	389	0.0
APR				
16...	1245	1.4	--	0.5
JUN 1997				
05...	1650	46	203	10.0
24...	1710	16	263	13.5
JUL				
29...	1445	4.6	338	14.5
SEP				
10...	1405	2.4	358	13.0

MISCELLANEOUS STATION ANALYSES--Continued

09058700 FREEMAN CREEK NEAR MINTURN, CO (LAT 39 41 55N LONG 106 26 41W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
08...	1240	0.30	215	7.5
JAN 1997				
15...	1150	0.20	22	0.0
MAR				
12...	1140	0.12	240	0.0
APR				
16...	1230	0.40	222	0.5
MAY				
28...	1330	9.8	117	3.5
JUN 1997				
05...	1830	26	105	11.0
24...	1735	3.7	175	16.5
JUL				
29...	1515	0.97	234	16.0
SEP				
10...	1430	0.43	258	13.0

09058800 EAST MEADOW CREEK NEAR MINTURN, CO (LAT 39 43 54N LONG 106 25 36W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
07...	1040	1.3	60	2.5
APR 1997				
15...	1110	1.1	78	0.5
JUN				
05...	1155	47	37	2.5
24...	1040	42	30	8.0
JUL 1997				
29...	0940	4.5	51	8.0
SEP				
10...	0950	1.3	63	6.0

09058900 MONIGER CREEK NEAR MINTURN, CO (LAT 39 43 37N LONG 106 28 50W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
08...	1610	0.03	156	4.0
JUN 1997				
24...	1500	5.3	101	11.5
JUL 1997				
29...	1300	0.20	149	10.5
SEP				
10...	1230	0.06	147	10.5

09060550 ROCK CREEK AT CRATER, CO (LAT 39 58 42N LONG 106 42 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 1996				
04...	1005	2.4	181	8.0
NOV				
14...	0830	11	139	0.0
DEC				
30...	0755	11	135	0.5
FEB 1997				
25...	1100	12	129	0.0
APR				
08...	0845	18	123	0.0
MAY 1997				
14...	0740	280	63	3.0
29...	1325	490	61	7.0
JUN				
26...	0905	33	95	--
JUL				
30...	0800	8.8	136	14.0
SEP				
16...	0900	7.6	146	10.5

09060770 ROCK CREEK AT MCCOY, CO (LAT 39 54 44N LONG 106 43 30W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
04...	1300	21	472	12.0
NOV				
14...	1000	34	405	1.0
DEC				
30...	0930	27	371	0.5
FEB 1997				
25...	1250	45	358	0.0
APR				
08...	1030	52	388	1.5
MAY 1997				
14...	0950	526	186	6.0
29...	1505	806	179	8.5
JUN				
26...	1025	58	293	--
JUL				
30...	1030	41	439	17.5
SEP				
16...	1025	36	395	12.5

09063200 WEARYMAN CREEK NEAR RED CLIFF, CO (LAT 39 31 14N LONG 106 19 06W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
03...	1500	3.3	284	5.5
DEC				
04...	1450	1.8	289	0.0
MAR 1997				
11...	1250	1.9	275	0.0
APR				
17...	1530	2.2	318	2.0
MAY 1997				
13...	1000	13	285	2.5
29...	1035	30	241	3.0
JUN				
03...	1615	62	207	5.0
25...	0915	78	206	4.0
JUL				
30...	1105	11	264	7.0
SEP				
08...	1750	4.0	288	7.0

MISCELLANEOUS STATION ANALYSES--Continued

09063400 TURKEY CREEK NEAR RED CLIFF, CO (LAT 39 31 32N LONG 106 20 08W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
03...	1250	7.9	280	6.0
DEC				
04...	1550	4.6	285	0.0
MAR 1997				
11...	1430	3.1	287	0.0
APR				
17...	1520	8.3	292	4.0
MAY 1997				
13...	1115	55	255	4.0
29...	0945	75	221	3.0
JUN				
03...	1700	228	178	5.5
25...	1110	178	213	5.0
JUL				
30...	1200	20	251	9.0
SEP				
08...	1845	8.5	281	8.5

09063900 MISSOURI CREEK NEAR GOLD PARK, CO (LAT 39 23 25N LONG 106 28 10W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
04...	0825	9.1	27	4.0
DEC				
04...	0935	1.4	32	0.0
JAN 1997				
16...	1045	1.3	--	0.0
MAR				
13...	1005	1.0	40	0.0
APR				
17...	1100	1.8	31	0.5
MAY 1997				
27...	1500	12	32	2.5
JUN				
03...	0850	37	26	1.0
23...	1525	44	21	8.0
JUL				
28...	1535	3.7	27	11.5
SEP				
08...	1410	7.5	28	10.5

09064000 HOMESTAKE CREEK AT GOLD PARK, CO (LAT 39 24 20N LONG 106 25 58W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
04...	1040	22	29	5.0
DEC				
04...	1050	9.9	37	0.0
APR 1997				
17...	0955	10	37	0.0
MAY				
14...	0900	64	30	1.5
27...	1530	52	31	5.5
JUN 1997				
03...	1025	150	24	3.5
23...	1630	119	23	12.0
JUL				
08...	1200	28	26	12.0
28...	1545	60	28	12.0
SEP				
08...	1510	19	30	12.5

09064500 HOMESTAKE CREEK NEAR RED CLIFF, CO (LAT 39 28 24N LONG 106 22 02W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
08...	1025	18	35	4.5
DEC				
04...	1345	12	37	0.0
JAN 1997				
14...	1140	9.0	40	0.0
MAR				
12...	1615	13	38	0.0
APR				
17...	1110	35	43	3.0
MAY 1997				
12...	1110	211	35	9.0
27...	1745	123	38	6.0
JUN				
03...	1135	239	26	6.5
23...	1830	183	25	12.5
JUL				
28...	1750	78	31	12.0
SEP				
08...	1655	25	34	15.0

09064600 EAGLE RIVER NEAR MINTURN, CO (LAT 39 33 14N LONG 106 24 07W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
03...	0835	56	155	7.5
DEC				
06...	1020	40	173	0.0
JAN 1997				
14...	1305	20	176	0.0
MAR				
11...	1615	35	163	0.0
APR				
14...	1450	65	191	3.5
MAY 1997				
13...	1240	484	129	6.5
29...	1240	640	111	5.5
JUN				
04...	0935	1420	84	5.0
25...	1300	667	109	9.5
JUL				
22...	1510	170	123	11.0
SEP				
09...	1515	52	152	15.0

09065100 CROSS CREEK NEAR MINTURN, CO (LAT 39 34 05N LONG 106 24 45W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
03...	1620	30	42	9.0
DEC				
06...	0850	9.4	57	0.0
JAN 1997				
14...	1545	9.7	104	0.0
MAR				
12...	1530	5.2	101	0.5
APR				
14...	1720	21	52	3.0
MAY 1997				
13...	1535	133	32	6.0
29...	1610	222	32	4.5
JUN				
04...	1240	388	22	6.0
25...	1540	296	23	8.5
JUL				
30...	1610	120	25	12.5
SEP				
09...	1715	28	41	14.5

MISCELLANEOUS STATION ANALYSES--Continued

09065500 GORE CREEK AT UPPER STATION, NEAR MINTURN, CO (LAT 39 37 40N LONG 106 16 24W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996					JUN 1997				
01...	1208	17	51	4.0	09...	1110	168	35	4.0
NOV					JUL				
06...	1300	7.9	--	--	07...	1050	94	35	5.5
JAN 1997					AUG				
08...	1332	4.4	65	0.0	04...	1215	33	44	10.5
MAR					SEP				
20...	1345	8.1	67	1.5	02...	1015	13	57	9.5
APR									
15...	1215	6.0	65	2.0					
MAY									
08...	1230	43	46	4.0					

09066000 BLACK GORE CREEK NEAR MINTURN, CO (LAT 39 35 47N LONG 106 15 52W)

OCT 1996					MAY 1997				
01...	1037	4.8	202	4.0	09...	1000	29	249	2.0
NOV					JUN				
06...	1123	4.6	251	0.5	09...	1030	168	110	4.5
JAN 1997					JUL				
08...	1000	7.0	99	0.0	08...	1105	33	112	7.5
MAR					AUG				
20...	1050	5.5	7	1.5	04...	1011	8.8	161	10.0
APR					SEP				
16...	1019	4.9	482	2.0	03...	0855	5.0	189	9.0

09066100 BIGHORN CREEK NEAR MINTURN, CO (LAT 39 38 24N LONG 106 17 34W)

OCT 1996					MAY 1997				
01...	1450	6.7	52	6.0	08...	1251	14	52	4.0
NOV					JUN				
06...	1410	2.0	62	0.5	09...	1305	51	37	4.0
JAN 1997					JUL				
08...	1506	1.1	--	0.0	07...	1111	21	37	5.5
MAR					AUG				
20...	1454	2.3	74	1.5	04...	1322	9.4	41	9.5
APR					SEP				
15...	1320	1.9	72	2.0	02...	1110	4.5	52	9.0

09066150 PITKIN CREEK NEAR MINTURN, CO (LAT 39 38 37N LONG 106 18 07W)

OCT 1996					MAY 1997				
02...	0957	8.4	56	4.0	08...	1445	13	82	4.5
NOV					JUN				
06...	1543	3.3	42	0.0	09...	1412	61	48	4.5
JAN 1997					JUL				
08...	1616	2.0	85	0.0	07...	1224	27	40	6.5
MAR					AUG				
20...	1612	2.3	128	2.5	04...	1342	12	51	9.0
APR					SEP				
15...	1430	2.8	119	2.5	02...	1200	6.0	69	9.0

09066200 BOOTH CREEK NEAR MINTURN, CO (LAT 39 39 02N LONG 106 19 16W)

OCT 1996					MAY 1997				
02...	1116	5.8	69	6.0	08...	1345	18	121	6.0
NOV					JUN				
07...	1137	3.0	93	0.5	09...	1553	70	55	5.0
JAN 1997					JUL				
09...	1108	1.2	117	0.5	07...	1346	32	44	10.0
MAR					AUG				
21...	0955	4.2	139	2.5	04...	1448	8.1	66	11.0
APR					SEP				
15...	1530	2.6	155	4.0	02...	1437	3.1	97	12.5

MISCELLANEOUS STATION ANALYSES--Continued

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 1996				
02...	1407	1.5	192	7.0
NOV				
07...	1240	1.0	210	0.5
JAN 1997				
09...	1233	0.76	219	0.5
MAR				
21...	1310	0.77	248	3.0
APR				
16...	1124	1.0	276	2.5
MAY 1997				
09...	1113	6.9	245	3.0
JUN				
10...	1120	51	146	3.5
JUL				
07...	1533	13	133	9.5
AUG				
05...	0920	3.9	185	9.0
SEP				
03...	1400	1.3	224	11.0

09066310 GORE CREEK, LOWER STATION, AT VAIL, COLORADO (LAT 39 38 28N LONG 106 23 37W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
02...	1332	44	180	9.0
NOV				
07...	1430	26	267	1.0
JAN 1997				
09...	1448	23	305	0.0
MAR				
21...	1130	41	339	4.0
APR				
16...	1408	31	326	9.0
MAY				
09...	1250	215	187	6.5
JUN 1997				
10...	0915	907	117	4.0
JUL				
08...	1252	311	117	9.5
AUG				
05...	1203	137	141	10.0
SEP				
03...	1305	42	233	14.5

09066400 RED SANDSTONE CREEK NEAR MINTURN, CO (LAT 39 40 58N LONG 106 24 03W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
07...	1650	2.3	90	6.5
DEC				
05...	1135	1.6	85	0.0
JAN 1997				
15...	1440	1.7	95	0.0
MAR				
12...	1205	1.3	83	0.0
APR				
16...	1615	2.0	92	1.0
MAY 1997				
28...	1620	29	57	3.0
JUN				
06...	0945	97	46	3.0
24...	1940	51	46	7.5
JUL				
29...	1655	7.0	81	10.0
SEP				
10...	1650	2.2	105	9.5

09067000 BEAVER CREEK AT AVON, CO (LAT 39 37 47N LONG 106 31 20W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
16...	1140	5.3	277	4.5
DEC				
03...	1255	5.9	392	0.0
JAN 1997				
13...	1435	2.9	343	0.5
MAR				
10...	1635	4.0	321	0.0
APR				
14...	1335	6.1	422	3.5
MAY 1997				
12...	1620	41	224	7.5
28...	1820	50	172	6.5
JUN				
06...	1130	124	80	6.0
25...	1800	94	115	13.0
JUL				
29...	1835	19	136	12.5
SEP				
11...	0850	8.8	226	10.0

09067200 LAKE CREEK NEAR EDWARDS, CO (LAT 39 38 51N LONG 106 36 31W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
08...	0915	34	367	6.5
NOV				
13...	1525	27	427	4.0
DEC				
31...	1020	17	400	1.0
FEB 1997				
25...	1535	19	551	2.0
APR				
08...	1440	23	514	5.5
MAY 1997				
29...	0640	138	260	6.0
JUN				
27...	0545	287	123	--
JUL				
30...	1425	138	227	13.0
SEP				
16...	1255	68	283	11.0

09070000 EAGLE RIVER BELOW GYPSUM, CO (LAT 39 38 58N LONG 106 57 11W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
03...	1525	356	739	13.5
NOV				
07...	1140	296	822	2.0
JAN 1997				
02...	1430	232	872	1.5
FEB				
26...	0750	196	--	0.0
APR				
08...	1630	340	669	9.0
MAY 1997				
14...	1555	1840	248	8.5
29...	1035	1980	297	7.5
JUN				
27...	0650	2540	214	--
JUL				
30...	1625	820	384	17.5
SEP				
16...	1440	401	706	14.5

MISCELLANEOUS STATION ANALYSES--Continued

09073400 ROARING FORK RIVER NEAR ASPEN, CO (LAT 39 10 48N LONG 106 48 05W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
NOV 1996				
12...	1415	48	85	3.5
JAN 1997				
07...	1600	45	90	0.0
FEB				
27...	1030	44	92	0.0
APR				
10...	1020	48	86	1.5
MAY 1997				
13...	1325	183	54	7.0
29...	0920	204	51	4.5
AUG				
01...	0940	106	59	10.5
SEP				
17...	1050	51	76	8.0

09074000 HUNTER CREEK NEAR ASPEN, CO (LAT 39 12 21N LONG 106 47 49W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
NOV 1996				
13...	0830	19	68	3.0
JAN 1997				
07...	1215	9.0	67	0.0
FEB				
27...	1430	6.1	71	0.0
APR				
10...	1210	14	64	1.5
MAY 1997				
13...	1515	122	40	8.0
28...	1435	104	41	6.5
JUN				
24...	1320	89	32	--
AUG				
01...	1055	46	46	12.0
SEP				
17...	1205	28	53	9.0

09080400 FRYINGPAN RIVER NEAR RUEDI, CO (LAT 39 21 56N LONG 106 49 30W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
01...	0900	235	149	8.5
NOV				
13...	1100	57	177	8.5
FEB 1997				
27...	0840	134	242	2.5
APR				
10...	1500	200	247	3.5
MAY 1997				
14...	0950	434	210	4.5
29...	1120	518	195	4.5
JUN				
24...	1525	411	162	--
JUL				
31...	1355	251	149	8.0

09085100 COLORADO RIVER BELOW GLENWOOD SPRINGS, CO (LAT 39 33 18N LONG 107 20 13W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
02...	1050	2270	670	10.5
NOV				
07...	1504	1710	764	4.5
JAN 1997				
03...	1140	1540	760	2.5
FEB				
26...	1400	1500	757	3.0
APR				
09...	1050	2650	620	6.0
MAY 1997				
15...	1200	11600	274	8.0
28...	1515	10700	331	10.0
JUN				
25...	1530	17300	214	--
JUL				
29...	1605	4320	467	16.0
SEP				
15...	1515	2530	700	14.0

09086000 WEST ELK CREEK NEAR NEW CASTLE, CO (LAT 39 39 59N LONG 107 37 35W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
02...	1555	1.4	778	11.5
NOV				
13...	0815	0.78	748	1.5
JAN 1997				
02...	0945	0.46	685	1.0
FEB				
24...	0850	0.85	829	0.0
APR				
07...	1520	1.2	863	5.5
MAY 1997				
13...	1335	5.7	552	9.0
28...	0850	4.4	700	8.5
JUN				
30...	1025	2.5	640	--
JUL				
29...	1045	2.5	656	15.5
SEP				
15...	1035	1.9	690	13.5

09086470 MAIN ELK CREEK NEAR NEW CASTLE, CO (LAT 39 40 41N LONG 107 34 21W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
01...	1810	15	366	9.5
NOV				
13...	0955	13	378	3.0
JAN 1997				
02...	1010	12	376	2.0
FEB				
24...	1000	12	377	1.0
APR				
07...	1555	25	364	5.5
MAY 1997				
13...	1510	499	338	8.0
28...	0910	532	318	5.0
JUN				
30...	1200	160	281	--
JUL				
29...	1200	43	332	12.0
SEP				
15...	1150	23	357	10.5

MISCELLANEOUS STATION ANALYSES--Continued

09086970 EAST ELK CREEK ABOVE BOILER CREEK NEAR NEW CASTLE, CO (LAT 39 40 05N LONG 107 31 28W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
02...	1340	6.9	280	9.0
NOV				
13...	1225	6.3	271	3.5
JAN 1997				
02...	1210	5.2	272	2.0
FEB				
24...	1220	4.7	281	1.0
APR				
07...	1725	13	272	2.0
MAY 1997				
16...	1100	205	209	4.5
28...	1115	152	218	4.5
JUL				
02...	0835	108	209	--
29...	1340	27	248	12.0
SEP				
15...	1325	11	274	10.5

09089500 WEST DIVIDE CREEK NEAR RAVEN, CO (LAT 39 19 52N LONG 107 34 46W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
01...	1420	1.5	450	13.5
NOV				
15...	0750	3.4	444	0.5
DEC				
27...	0850	3.7	453	0.0
FEB 1997				
28...	0920	4.6	453	0.0
APR				
07...	1250	33	406	2.0
MAY 1997				
13...	1030	388	197	4.5
30...	0900	206	213	6.5
JUN				
27...	0940	70	210	--
JUL				
29...	0815	15	335	15.0
SEP				
18...	1105	7.0	402	14.0

09093700 COLORADO RIVER NEAR DE BEQUE, CO (LAT 39 21 45N LONG 108 09 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 1996				
01...	0945	2530	928	12.0
NOV				
12...	1245	2130	1020	5.5
DEC				
27...	1230	2140	953	0.0
FEB 1997				
28...	1210	1960	1040	3.0
APR				
07...	0835	3190	783	5.5
MAY 1997				
16...	1350	15100	338	12.0
30...	1140	15300	350	11.5
JUN				
27...	1205	16200	283	--
AUG				
06...	1405	5530	565	18.0
SEP				
18...	1340	2850	877	17.5

09106150 COLORADO RIVER BELOW GRAND VALLEY DIVERSION NEAR PALISADE CO (LAT 39 05 55N LONG 108 21 16W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
02...	0945	1270	920	--
DEC				
02...	1230	2090	1000	2.0
JAN 1997				
30...	1030	2160	1020	2.0
MAR				
18...	1045	3040	931	7.5
MAY				
05...	1310	4970	566	13.5
12...	1210	12100	370	12.0
23...	1153	21600	304	10.5
JUN 1997				
06...	0953	26900	258	11.0
JUL				
02...	1130	10700	333	14.5
25...	0929	3470	606	20.5
AUG				
27...	1530	2760	681	19.5

09107000 TAYLOR RIVER AT TAYLOR PARK, CO (LAT 38 50 59N LONG 106 34 21W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
01...	1135	60	114	5.5
NOV				
13...	0900	40	119	0.0
JAN 1997				
08...	1010	62	113	0.0
FEB				
25...	1015	36	114	0.0
APR				
01...	1355	58	111	5.0
MAY 1997				
14...	0935	315	70	1.0
JUN				
03...	0835	747	61	2.5
25...	0835	570	76	4.5
JUL				
30...	0855	174	109	9.0
SEP				
17...	1245	104	111	9.5

09109000 TAYLOR RIVER BELOW TAYLOR PARK RESERVOIR, CO (LAT 38 49 06N LONG 106 36 31W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
01...	1300	277	96	10.0
NOV				
13...	1045	101	99	3.5
JAN 1997				
08...	1335	105	98	1.0
FEB				
25...	1225	99	108	2.0
MAY 1997				
14...	1050	240	118	2.5
29...	1145	492	105	3.5
JUN				
25...	0945	802	84	6.0
JUL				
30...	1005	515	80	8.5
SEP				
17...	1345	365	93	11.5

MISCELLANEOUS STATION ANALYSES--Continued

09113100 CASTLE CREEK ABOVE MOUTH NEAR BALDWIN, CO (LAT 38 46 09N LONG 107 05 02W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
02...	1030	7.9	81	4.0
JAN 1997				
08...	1525	7.0	92	0.0
FEB				
25...	1555	6.0	94	0.0
APR				
01...	1130	9.7	90	0.0
MAY				
15...	0855	121	57	1.0
JUN 1997				
03...	1600	202	80	4.0
24...	1610	168	45	11.0
JUL				
29...	1510	39	53	11.5
SEP				
18...	1110	23	68	9.0

09115500 TOMICHI CREEK AT SARGENTS, CO (LAT 38 23 42N LONG 106 25 19W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
02...	1410	27	174	12.0
NOV				
14...	1255	50	224	1.0
JAN 1997				
07...	1125	10	149	0.0
FEB				
26...	1025	22	167	0.0
APR				
02...	1140	50	163	4.5
MAY 1997				
28...	1205	309	111	5.0
JUN				
04...	0920	474	82	6.5
24...	1335	210	109	12.0
JUL				
29...	1050	67	157	12.0
AUG				
27...	0955	41	169	10.5

09118450 COCHETOPA CREEK BELOW ROCK CREEK NEAR PARLIN, CO (LAT 38 20 08N LONG 106 46 18W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
02...	1505	16	263	9.5
NOV				
14...	1445	24	226	1.5
JAN 1997				
07...	1345	12	232	0.0
FEB				
26...	1305	19	234	0.0
APR				
02...	1345	38	227	5.0
MAY 1997				
13...	1545	77	150	12.5
28...	1410	89	158	10.5
JUN				
04...	1015	148	142	10.0
24...	1420	83	194	16.0
JUL				
29...	1235	69	235	14.0

09124500 LAKE FORK AT GATEVIEW, CO (LAT 38 17 56N LONG 107 13 46W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
NOV 1996				
12...	1525	78	171	4.0
FEB 1997				
24...	1225	52	188	-0.5
MAR				
31...	1240	148	178	5.5
MAY				
12...	1630	479	151	11.5
JUN 1997				
04...	1230	1810	95	8.5
23...	1455	1450	88	11.0
JUL				
28...	1245	527	116	12.5
SEP				
09...	1300	146	161	12.5

09126000 CIMARRON RIVER NEAR CIMARRON, CO (LAT 38 15 26N LONG 107 32 46W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
04...	1045	24	139	6.5
NOV				
12...	1115	15	137	1.5
JAN 1997				
10...	1130	17	140	0.0
FEB				
28...	1150	15	138	0.0
APR				
02...	1305	21	139	6.5
MAY 1997				
12...	1230	45	99	8.0
20...	1250	533	97	4.0
JUN				
02...	1455	930	88	6.0
23...	1130	598	77	7.5
JUL				
25...	1005	128	83	8.0
SEP				
16...	1115	108	124	12.5

09132500 NORTH FORK GUNNISON RIVER NEAR SOMERSET, CO (LAT 38 55 33N LONG 107 26 01W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
02...	1030	96	164	8.5
NOV				
14...	1400	140	185	3.5
JAN 1997				
03...	1250	107	183	0.0
MAR				
14...	1110	183	175	1.0
MAY				
09...	1005	2980	112	5.5
JUN 1997				
05...	1130	3190	89	9.5
19...	1035	2020	85	10.0
AUG				
08...	1045	311	143	15.5
SEP				
15...	1405	230	150	13.0

MISCELLANEOUS STATION ANALYSES--Continued

09134000 MINNESOTA CREEK NEAR PAONIA, CO (LAT 38 52 13N LONG 107 30 06W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
02...	1315	4.3	436	12.5
NOV				
12...	1600	4.4	125	2.5
JAN 1997				
03...	1445	9.1	806	0.0
MAR				
14...	1430	8.4	922	3.5
MAY 1997				
09...	1420	160	207	11.0
JUN				
04...	1605	212	166	12.5
19...	1325	92	175	13.0
AUG				
08...	1225	17	315	17.5

09135950 NORTH FORK GUNNISON RIVER BELOW LEROUX CREEK NEAR HOTCHKISS, CO (LAT 38 47 18N LONG 107 44 21W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
MAR 1997				
24...	1205	1520	275	3.5
JUL				
10...	1400	362	545	21.0
AUG 1997				
20...	1405	124	1380	22.0
27...	1105	154	1300	17.5
SEP				
19...	1310	245	946	17.5

09143000 SURFACE CREEK NEAR CEDAREDGE, CO (LAT 38 59 05N LONG 107 51 13W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
03...	1130	62	96	8.5
NOV				
14...	0925	4.8	146	0.0
JAN 1997				
02...	1105	3.7	127	0.0
MAR				
07...	1130	4.2	150	0.5
APR				
08...	1045	11	146	1.5
MAY 1997				
15...	1010	200	86	3.5
JUN				
03...	1340	277	64	9.5
20...	1320	162	65	13.0
AUG				
11...	1250	48	74	10.5

09143500 SURFACE CREEK AT CEDAREDGE, CO (LAT 38 54 06N LONG 107 55 14W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
03...	1405	62	109	9.5
NOV				
14...	1045	2.6	169	1.0
JAN 1997				
02...	1200	1.3	213	2.0
MAR				
07...	1315	3.3	188	4.5
APR				
08...	1205	15	190	3.5
MAY 1997				
15...	1220	107	104	8.0
JUN				
03...	1535	152	76	12.0
20...	1100	69	78	11.5
AUG				
11...	1500	22	92	15.0

09144250 GUNNISON RIVER AT DELTA, CO (LAT 38 45 01N LONG 108 04 06W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
04...	1005	1350	1500	11.5
NOV				
12...	1320	1590	550	7.5
JAN 1997				
02...	1240	1470	479	4.0
MAR				
05...	1155	1720	386	2.5
MAY 1997				
15...	1600	7000	819	6.5
30...	1040	6830	341	10.5
JUN				
04...	1110	9380	124	9.5
23...	1400	6000	298	14.0
JUL				
31...	1310	1360	1310	18.5
SEP				
22...	1455	1700	949	16.5

09147000 DALLAS CREEK NEAR RIDGWAY, CO (LAT 38 10 40N LONG 107 45 28W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
NOV 1996				
04...	1125	30	637	6.0
DEC				
23...	1450	26	570	0.5
FEB 1997				
26...	1400	31	663	0.5
MAR				
19...	1700	88	590	9.0
APR				
08...	1400	61	570	7.5
MAY 1997				
15...	1750	45	414	16.0
JUN				
02...	1330	144	370	13.0
JUL				
23...	1030	110	463	12.5
AUG				
21...	1200	68	391	12.0

MISCELLANEOUS STATION ANALYSES--Continued

09147025 UNCOMPAHGRE RIVER BELOW RIDGWAY RESERVOIR, CO (LAT 38 14 17N LONG 107 45 31W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
10...	1705	76	528	12.5
NOV				
26...	1440	77	582	8.0
JAN 1997				
15...	1440	105	576	4.0
FEB				
26...	0945	96	614	4.0
MAR				
19...	1525	98	640	4.5
APR 1997				
09...	1015	594	610	4.5
MAY				
16...	1105	501	587	7.0
JUL				
24...	0850	536	358	10.5
AUG				
21...	1400	407	354	12.5

09147500 UNCOMPAHGRE RIVER AT COLONA, CO (LAT 38 19 53N LONG 107 46 44W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
NOV 1996				
01...	1120	97	579	7.5
DEC				
24...	0855	50	621	0.0
FEB 1997				
26...	0820	105	621	0.0
MAR				
19...	1330	227	615	9.5
APR				
MAY 1997				
15...	1500	795	456	11.5
JUN				
03...	0834	986	258	10.5
JUL				
23...	1545	524	386	12.5
AUG				
21...	1405	384	405	15.5

09149500 UNCOMPAHGRE RIVER AT DELTA, CO (LAT 38 44 31N LONG 108 04 49W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
03...	1640	832	1280	11.0
16...	1220	373	1270	10.5
NOV				
12...	1215	300	1670	6.0
14...	1640	302	1690	7.5
JAN 1997				
02...	1430	190	1720	5.0
07...	1315	166	1700	1.0
MAR				
05...	1420	186	1530	5.5
11...	0915	252	1460	4.5
APR				
07...	1430	563	890	8.0
17...	1010	584	882	7.5
MAY 1997				
23...	0850	1340	847	10.0
30...	0830	800	1000	13.5
JUN				
04...	1330	758	886	17.0
10...	1025	1300	940	14.0
23...	1225	490	972	17.0
JUL				
31...	1115	469	1290	12.5
AUG				
12...	1235	865	993	15.5
SEP				
22...	1050	1210	938	13.5

09166500 DOLORES RIVER AT DOLORES, CO (LAT 37 28 21N LONG 108 29 49W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
NOV 1996				
01...	1130	114	350	2.0
FEB 1997				
20...	1340	82	415	0.5
MAR				
24...	0915	1050	230	2.5
MAY				
21...	0830	3420	145	5.0
JUN 1997				
03...	1100	3400	135	6.0
JUL				
29...	1115	598	237	14.5
AUG				
27...	1115	408	235	16.5

09166950 LOST CANYON CREEK NEAR DOLORES, CO (LAT 37 26 45N LONG 108 28 03W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
NOV 1996				
01...	0905	1.9	173	1.5
FEB 1997				
20...	1135	8.4	168	0.0
MAR				
20...	1115	160	95	2.0
24...	1225	249	77	2.0
MAY				
21...	1045	167	64	6.0
JUN 1997				
03...	1330	30	115	14.5
JUL				
29...	1415	0.64	654	19.5
AUG				
27...	1210	0.79	442	20.5

09168730 DOLORES RIVER NEAR SLICK ROCK, CO (LAT 38 02 40N LONG 108 54 17W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
MAY 1997				
08...	1345	2600	350	7.0
JUN				
03...	1020	2610	295	10.0
05...	1120	1670	315	11.0
JUL 1997				
02...	1110	197	364	17.0
10...	1215	122	325	21.5
21...	1100	114	264	22.5
AUG				
19...	1100	114	325	21.5

MISCELLANEOUS STATION ANALYSES--Continued

09172500 SAN MIGUEL RIVER NEAR PLACERVILLE, CO (LAT 38 02 05N LONG 108 07 15W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996					MAY 1997				
25...	0815	114	388	3.5	15...	1050	839	276	6.0
DEC					JUN				
11...	0830	102	390	1.5	03...	1910	1370	211	12.5
FEB 1997					JUL				
25...	1630	86	381	1.5	23...	0900	628	209	10.0
APR					AUG				
08...	1230	188	389	4.0	21...	1000	247	302	11.0

09174600 SAN MIGUEL RIVER AT BROOKS BRIDGE NEAR NUCLA, CO (LAT 38 14 39N LONG 108 30 05W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996					MAY 1997				
23...	1730	129	408	7.0	06...	1745	1340	260	12.0
DEC					JUN				
11...	0740	131	390	0.5	03...	1500	1910	250	13.0
FEB 1997					JUL				
25...	1440	115	406	3.0	21...	1415	450	235	18.0
APR					AUG				
07...	1645	535	295	5.5	20...	1500	218	317	21.0

09177000 SAN MIGUEL RIVER AT URAVAN, CO (LAT 38 21 26N LONG 108 42 44W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996					JUN 1997				
24...	1800	136	739	7.0	04...	1640	2360	279	13.5
DEC					JUL				
10...	1710	203	870	3.5	02...	1440	933	313	16.5
FEB 1997					21...	1600	509	400	21.0
25...	1230	132	713	3.5	AUG				
APR					19...	1620	250	578	22.0
03...	1000	1020	370	6.5					
MAY									
08...	0920	2230	300	9.0					

09237450 YAMPA RIVER ABOVE STAGECOACH RESERVOIR, CO (LAT 40 16 09N LONG 106 52 49W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996					JUN 1997				
01...	1500	56	473	12.5	09...	0900	649	318	9.5
JAN 1997					JUL				
06...	1200	60	500	0.0	01...	1430	174	390	16.0
MAR					AUG				
25...	1310	88	570	4.0	06...	1240	278	470	13.5
APR					SEP				
16...	1355	116	600	9.0	08...	1125	113	368	13.0
30...	1145	270	484	4.5					

09237500 YAMPA RIVER BELOW STAGECOACH RESERVOIR, CO (LAT 40 17 15N LONG 106 49 33W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996					JUN 1997				
02...	1240	82	412	12.0	01...	1215	412	420	13.0
NOV					12...	1210	466	418	14.0
05...	0935	82	421	6.5	JUL				
JAN 1997					01...	1510	191	378	13.0
06...	1000	82	431	2.5	AUG				
MAR					06...	1135	210	384	16.0
04...	1300	83	431	3.0	SEP				
MAY					08...	1215	129	378	16.5
14...	1425	336	418	11.0					

09238900 FISH CREEK AT UPPER STATION NEAR STEAMBOAT SPRINGS, CO (LAT 40 28 30N LONG 106 47 11W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996					MAY 1997				
02...	1120	5.0	29	6.5	15...	1110	206	21	3.5
DEC					JUN				
23...	1130	5.9	34	0.0	01...	1355	607	20	4.5
APR 1997					AUG				
16...	1240	12	43	4.5	06...	1000	26	22	12.0

MISCELLANEOUS STATION ANALYSES--Continued

09243700 MIDDLE CREEK NEAR OAK CREEK, CO (LAT 40 23 08N LONG 106 59 33W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
01...	1215	0.44	812	13.5
22...	1215	0.75	913	3.0
JAN 1997				
07...	1130	0.89	423	0.0
MAR				
06...	1135	1.4	239	0.0
APR				
28...	1025	51	416	7.0
30...	1325	71	410	7.0
MAY				
15...	1250	59	411	12.5
JUN 1997				
10...	1250	22	555	13.5
16...	1225	15	560	14.0
JUL				
01...	1030	4.6	666	15.5
AUG				
13...	0850	3.1	673	11.5
SEP				
09...	1001	1.0	776	13.0

09243800 FOIDEL CREEK NEAR OAK CREEK, CO (LAT 40 20 45N LONG 107 05 04W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
01...	1350	0.54	3300	15.5
22...	1055	0.73	3290	0.5
JAN 1997				
07...	1400	1.5	3110	0.0
MAR				
06...	1350	0.30	2980	0.0
APR				
28...	1305	17	1310	11.0
JUN 1997				
10...	1455	8.1	2360	19.0
JUL				
01...	1240	2.7	2960	20.0
AUG				
13...	1015	1.9	2820	14.5
SEP				
09...	1107	0.83	3150	14.5

09243900 FOIDEL CREEK AT MOUTH, NEAR OAK CREEK, CO (LAT 40 23 25N LONG 106 59 39W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
01...	1305	0.36	3420	13.0
22...	1240	0.24	3030	3.0
JAN 1997				
07...	1005	1.7	3140	0.0
MAR				
06...	1015	0.47	1920	0.0
APR				
28...	1135	26	1330	10.0
MAY				
15...	1400	23	2250	17.5
JUN 1997				
10...	1345	12	2050	17.5
JUL				
01...	1145	3.2	2400	18.5
AUG				
13...	0805	3.7	2790	12.0
SEP				
09...	0817	0.68	3050	12.0

09249750 WILLIAMS FORK RIVER AT MOUTH, NEAR HAMILTON, CO (LAT 40 26 14N LONG 107 38 50W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
01...	0952	61	511	10.5
NOV				
20...	1135	83	644	5.5
FEB 1997				
24...	1111	66	671	0.5
APR				
03...	1425	156	377	5.5
MAY 1997				
05...	1301	848	426	10.5
23...	1108	1760	246	7.5
JUL				
16...	1038	133	442	19.0
SEP				
16...	1310	75	505	16.5
29...	1007	194	429	10.0
30...	1313	161	447	13.0

09251100 YAMPA RIVER ABOVE LITTLE SNAKE RIVER NEAR MAYBELL, CO (LAT 40 27 39N LONG 108 25 30W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
15...	1101	239	535	12.0
NOV				
08...	1333	430	546	2.5
APR 1997				
07...	0955	2350	690	4.0
MAY 1997				
15...	0943	10400	231	10.5
JUL				
21...	1225	1400	302	21.5
SEP				
23...	1412	4370	369	13.0

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO (LAT 40 59 58N LONG 107 08 34W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
03...	0840	32	186	10.0
NOV				
04...	1205	43	180	4.0
JAN 1997				
22...	1310	40	185	0.0
MAR				
05...	1310	36	190	0.0
26...	1250	137	166	5.0
MAY 1997				
07...	1200	1040	87	6.5
20...	1215	1740	59	6.5
JUN				
24...	1220	863	51	10.5
AUG				
18...	1025	49	156	14.0
SEP				
10...	1018	30	172	14.0

MISCELLANEOUS STATION ANALYSES--Continued

09255000 SLATER FORK NEAR SLATER, CO (LAT 40 58 54N LONG 107 22 58W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
03...	0955	16	216	11.0
NOV				
04...	1050	26	247	2.5
JAN 1997				
22...	1100	22	252	0.0
MAR				
05...	1040	19	255	0.5
26...	1050	38	--	2.5
MAY 1997				
07...	0955	564	111	5.0
20...	1015	766	94	5.5
JUN				
11...	1330	486	84	9.5
24...	1040	213	106	12.0
AUG				
18...	0850	12	273	16.5
SEP				
10...	0850	11	303	15.5

09304500 WHITE RIVER NEAR MEEKER, CO (LAT 40 02 01N LONG 107 51 42W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
NOV 1996				
01...	1324	408	441	6.0
DEC				
28...	1230	355	445	1.0
FEB 1997				
01...	1050	342	437	0.5
MAR				
29...	1135	484	457	5.5
APR				
01...	1020	496	461	0.5
MAY 1997				
13...	0923	2280	245	6.5
JUN				
01...	0935	3230	222	8.5
JUL				
25...	1245	722	361	17.0
AUG				
14...	1343	675	400	15.0
SEP				
24...	1037	1030	361	9.0

09340800 WEST FORK SAN JUAN RIVER AT WEST FORK CAMPGROUND NEAR PAGOSA SPRINGS, CO (LAT 37 27 01N LONG 106 54 40W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
APR 1997				
30...	1220	89	47	4.0
JUN				
05...	1230	728	30	6.0
JUL				
01...	1400	345	30	9.0
AUG 1997				
01...	1320	209	37	11.5
25...	1205	78	47	12.0

09341300 WOLF CREEK AT WOLF CREEK CAMPGROUND NEAR PAGOSA SPRINGS, CO (LAT 37 26 31N LONG 106 53 11W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
MAY 1997				
01...	1105	47	55	2.5
JUN				
06...	1300	301	38	6.0
JUL				
03...	1020	95	32	5.0
AUG 1997				
01...	1205	38	39	11.5
25...	1445	22	47	15.0
SEP				
08...	1435	14	66	13.0

09341500 WEST FORK SAN JUAN RIVER NEAR PAGOSA SPRINGS, CO (LAT 37 23 31N LONG 106 54 24W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
APR 1997				
29...	1115	221	63	4.5
JUN				
06...	1015	1180	36	5.5
JUL				
01...	0945	564	34	6.0
AUG 1997				
14...	1240	165	--	11.0
SEP				
08...	1105	99	98	12.0

09342500 SAN JUAN RIVER AT PAGOSA SPRINGS, CO (LAT 37 15 58N LONG 107 00 37W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
08...	1305	115	120	11.5
FEB 1997				
13...	1125	80	170	0.5
MAR				
06...	1430	74	200	0.5
MAY				
15...	1225	1920	74	7.0
JUN 1997				
05...	1000	2960	51	5.0
25...	1155	1560	52	8.5
AUG				
14...	1050	378	98	13.0
SEP				
11...	1100	149	122	13.5

09346400 SAN JUAN RIVER NEAR CARRACAS, CO (LAT 37 00 49N LONG 107 18 42W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
25...	1000	124	335	5.5
DEC				
03...	1410	129	440	0.5
FEB 1997				
18...	1410	217	390	4.5
MAR				
13...	1520	613	390	6.5
APR				
17...	1000	558	307	8.5
MAY 1997				
20...	1515	2440	95	10.0
JUN				
04...	1315	3510	72	9.0
26...	1130	1590	85	14.0
JUL				
24...	1345	460	191	22.0
SEP				
12...	0950	290	225	16.5

MISCELLANEOUS STATION ANALYSES--Continued

09349800 PIEDRA RIVER NEAR ARBOLES, CO (LAT 37 05 18N LONG 107 23 50W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
25...	1115	81	356	6.0
DEC				
03...	1515	87	420	0.5
FEB 1997				
13...	1300	103	443	6.0
MAR				
07...	1410	132	430	7.5
27...	1130	1130	243	5.5
MAY 1997				
20...	1315	2250	126	10.5
JUN				
04...	0915	2400	100	8.0
25...	1450	1160	107	14.5
JUL				
24...	1540	336	203	23.5
SEP				
12...	1115	207	253	16.0

09352900 VALLECITO CREEK NEAR BAYFIELD, CO (LAT 37 28 39N LONG 107 32 35W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
18...	1345	56	63	3.0
DEC				
16...	1330	49	75	0.0
FEB 1997				
05...	1500	25	78	0.0
MAR				
18...	1245	50	71	2.0
MAY 1997				
13...	1130	523	--	5.0
JUN				
19...	1430	798	45	8.0
SEP				
01...	1430	230	58	12.0

09354500 LOS PINOS RIVER AT LA BOCA, CO (LAT 37 00 34N LONG 107 35 56W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
24...	1400	46	357	9.0
DEC				
16...	1130	48	380	0.5
FEB 1997				
18...	1000	63	400	3.5
MAR				
13...	1315	851	185	5.0
MAY				
29...	1200	381	223	14.5
JUN 1997				
11...	0900	1940	106	10.0
JUL				
02...	0920	689	111	11.0
24...	0910	192	222	18.0
SEP				
11...	1405	299	153	19.5

09355000 SPRING CREEK AT LA BOCA, CO (LAT 37 00 40N LONG 107 35 47W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
24...	1130	7.0	722	3.5
DEC				
16...	1025	4.5	1130	0.0
FEB 1997				
18...	1130	11	1160	4.5
MAR				
13...	1120	46	395	3.5
MAY				
29...	1100	61	330	14.5
JUN 1997				
11...	1315	63	300	20.5
JUL				
02...	1105	59	246	15.0
24...	1035	80	258	19.0
SEP				
11...	1455	58	274	21.0

09358000 ANIMAS RIVER AT SILVERTON, CO (LAT 37 48 40N LONG 107 39 32W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
09...	1045	111	218	4.5
NOV				
08...	1400	46	295	0.5
19...	1310	43	299	3.0
JAN 1997				
08...	1500	47	367	0.0
30...	1015	8.5	426	0.0
FEB				
25...	1200	18	360	0.0
MAR				
25...	1215	45	349	4.0
APR				
15...	1100	35	380	4.0
MAY 1997				
14...	0930	433	144	3.5
21...	0830	514	129	4.0
29...	1000	238	196	4.5
JUN				
05...	1200	883	138	7.5
11...	1000	451	152	4.5
16...	1230	580	128	8.0
26...	1100	606	117	6.5
JUL				
01...	1400	585	119	10.5
15...	1100	355	130	7.0
30...	1115	324	136	8.5
AUG				
12...	1205	232	190	9.0

MISCELLANEOUS STATION ANALYSES--Continued

09358550 CEMENT CREEK AT SILVERTON, CO (LAT 37 49 11N LONG 107 39 47W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
09...	1250	25	778	8.5
NOV				
08...	1325	17	966	4.0
19...	1435	18	930	0.5
JAN 1997				
09...	0930	12	1070	0.0
30...	1200	13	955	0.0
FEB				
25...	1000	13	1110	1.5
MAR				
25...	1400	22	746	7.0
APR				
28...	1440	39	565	6.5
MAY 1997				
29...	1150	72	324	6.0
JUN				
11...	1345	130	166	9.5
17...	1130	148	209	7.5
25...	1100	167	234	6.0
JUL				
15...	1245	67	387	8.5
29...	1400	46	476	11.0
AUG				
12...	0940	38	575	6.0

09359010 MINERAL CREEK AT SILVERTON, CO (LAT 37 48 10N LONG 107 40 20W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
09...	0920	101	257	3.0
NOV				
08...	1200	45	399	0.0
19...	1155	35	424	3.0
JAN 1997				
03...	1030	27	498	1.0
30...	1400	26	490	0.0
FEB				
25...	1500	21	550	1.0
MAR				
25...	1045	40	398	1.5
APR 1997				
15...	1020	31	480	1.5
29...	1300	69	325	4.0
MAY				
20...	1400	273	150	6.0
28...	1500	171	181	7.0
JUN				
17...	0930	468	124	4.5
JUL				
14...	1400	242	138	10.0
AUG				
12...	1500	204	178	10.5

09361500 ANIMAS RIVER AT DURANGO, CO (LAT 37 16 45N LONG 107 52 47W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
FEB 1997				
20...	1515	271	516	7.5
APR				
24...	1300	1380	295	5.0
MAY				
27...	1400	2570	276	8.0
JUN				
02...	1215	7230	145	7.5
JUL 1997				
10...	1535	1550	248	13.0
AUG				
28...	1225	772	356	15.5
SEP				
22...	1530	4290	173	9.0

09362550 WILSON GULCH NEAR DURANGO, CO (LAT 37 13 37N LONG 107 50 31W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
NOV 1996				
21...	1140	0.84	695	6.5
FEB 1997				
21...	1105	0.76	540	4.5
MAR				
13...	1715	3.3	478	8.5
18...	1610	13	310	10.0
APR 1997				
25...	1200	1.0	655	10.0
JUL				
23...	1245	3.5	480	19.5

09362600 RAINBOW SPRINGS TROUT RANCH NEAR BONDAD, CO (LAT 37 08 50N LONG 107 52 08W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
NOV 1996				
26...	1115	1.4	617	9.5
JAN 1997				
31...	1215	1.4	609	10.0
APR				
11...	1255	1.3	600	10.5
JUL 1997				
23...	0845	1.8	615	12.0
SEP				
12...	1320	1.8	555	12.5

09363070 HIGHWAY SPRING NEAR LOMA LINDA, CO (LAT 37 11 19N LONG 107 45 13W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
NOV 1996				
21...	1225	0.23	580	6.0
JAN 1997				
31...	1340	0.12	578	3.0
APR 1997				
11...	1425	0.21	580	8.0
JUL				
23...	0950	0.46	486	15.5

09371000 MANCOS RIVER NEAR TOWAOC, CO (LAT 37 01 39N LONG 108 44 27W)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1996				
31...	1045	33	1730	5.5
DEC				
20...	0930	5.3	2340	0.0
JAN 1997				
24...	1430	18	1760	0.0
MAR				
11...	1420	131	1660	8.0
MAY 1997				
14...	1020	304	375	13.0
AUG				
01...	1500	47	775	25.5
SEP				
10...	1220	16	1180	22.5

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.

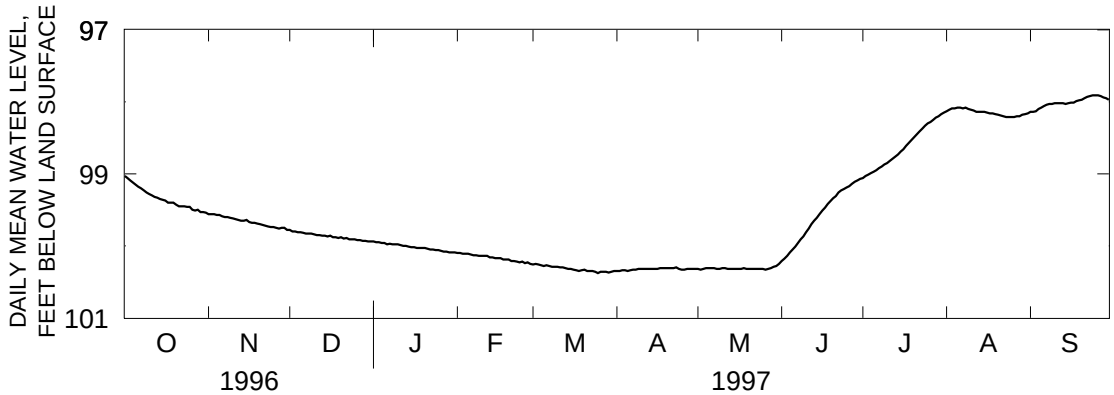
REMARKS.--Daily record is good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level 97.73 ft below land-surface datum, Oct. 12, 1995; lowest, 100.40 ft below land-surface datum, Mar. 24-25, 1997.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99.03	99.56	99.78	99.94	100.10	100.26	100.35	100.32	100.21	99.06	98.13	98.14
2	99.06	99.56	99.80	99.95	100.10	100.25	100.35	100.33	100.18	99.03	98.11	98.14
3	99.09	99.56	99.80	99.95	100.11	100.26	100.34	100.32	100.14	99.01	98.09	98.13
4	99.12	99.57	99.81	99.96	100.11	100.27	100.34	100.31	100.09	98.99	98.09	98.10
5	99.15	99.57	99.81	99.96	100.11	100.28	100.35	100.31	100.05	98.97	98.08	98.08
6	99.18	99.59	99.82	99.98	100.12	100.27	100.34	100.31	100.01	98.95	98.08	98.06
7	99.20	99.60	99.83	99.97	100.13	100.28	100.33	100.31	99.96	98.92	98.09	98.04
8	99.23	99.60	99.83	99.98	100.13	100.29	100.33	100.32	99.91	98.90	98.08	98.03
9	99.26	99.61	99.83	99.98	100.14	100.29	100.32	100.32	99.87	98.87	98.10	98.03
10	99.28	99.62	99.84	99.98	100.14	100.29	100.32	100.31	99.81	98.85	98.11	98.02
11	99.30	99.63	99.85	99.99	100.14	100.30	100.32	100.31	99.76	98.82	98.12	98.02
12	99.32	99.64	99.85	100.00	100.14	100.30	100.32	100.32	99.70	98.79	98.14	98.02
13	99.33	99.65	99.86	100.00	100.16	100.31	100.32	100.32	99.65	98.76	98.14	98.02
14	99.35	99.65	99.86	100.01	100.16	100.32	100.32	100.32	99.61	98.73	98.14	98.03
15	99.36	99.64	99.87	100.02	100.17	100.32	100.32	100.32	99.56	98.69	98.14	98.02
16	99.37	99.67	99.86	100.02	100.17	100.33	100.32	100.32	99.51	98.66	98.15	98.01
17	99.40	99.68	99.88	100.03	100.17	100.34	100.31	100.32	99.47	98.61	98.16	98.01
18	99.40	99.68	99.88	100.03	100.19	100.35	100.31	100.31	99.42	98.57	98.16	97.99
19	99.40	99.69	99.89	100.03	100.19	100.34	100.31	100.32	99.38	98.53	98.17	97.98
20	99.43	99.70	99.88	100.03	100.19	100.33	100.31	100.32	99.34	98.49	98.18	97.97
21	99.45	99.71	99.90	100.04	100.21	100.35	100.31	100.32	99.31	98.45	98.19	97.95
22	99.45	99.72	99.89	100.05	100.21	100.35	100.31	100.32	99.26	98.41	98.20	97.93
23	99.45	99.73	99.91	100.05	100.22	100.35	100.30	100.32	99.23	98.37	98.21	97.92
24	99.46	99.74	99.91	100.06	100.23	100.36	100.32	100.32	99.21	98.33	98.21	97.91
25	99.46	99.74	99.91	100.06	100.22	100.38	100.33	100.32	99.19	98.30	98.21	97.91
26	99.50	99.75	99.92	100.07	100.24	100.36	100.33	100.33	99.17	98.28	98.21	97.91
27	99.51	99.76	99.92	100.08	100.23	100.36	100.32	100.32	99.14	98.25	98.20	97.92
28	99.50	99.75	99.93	100.08	100.25	100.36	100.32	100.31	99.11	98.22	98.20	97.94
29	99.53	99.75	99.93	100.09	---	100.37	100.32	100.29	99.09	98.20	98.18	97.95
30	99.53	99.78	99.94	100.09	---	100.36	100.32	100.28	99.07	98.17	98.17	97.97
31	99.54	---	99.94	100.09	---	100.35	---	100.25	---	98.15	98.16	---
MEAN	99.34	99.66	99.87	100.02	100.17	100.32	100.32	100.31	99.58	98.62	98.15	98.00
MAX	99.54	99.78	99.94	100.09	100.25	100.38	100.35	100.33	100.21	99.06	98.21	98.14
MIN	99.03	99.56	99.78	99.94	100.10	100.25	100.30	100.25	99.07	98.15	98.08	97.91



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.

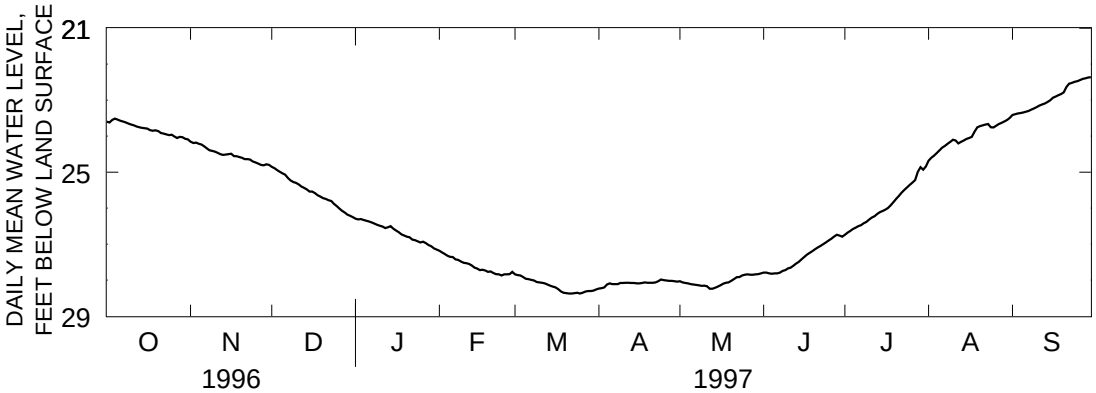
REMARKS.--Daily record is good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level 21.57 ft below land-surface datum, Sept. 11, 1995; lowest, 28.74 ft below land-surface datum, May 20, 1996.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.60	24.15	24.85	26.29	27.18	27.84	28.23	28.03	27.79	26.74	24.68	23.41
2	23.62	24.19	24.89	26.31	27.23	27.86	28.22	28.06	27.79	26.68	24.60	23.39
3	23.55	24.18	24.94	26.30	27.27	27.87	28.20	28.08	27.81	26.63	24.54	23.37
4	23.51	24.21	24.99	26.33	27.32	27.91	28.12	28.09	27.82	26.58	24.47	23.36
5	23.54	24.23	25.03	26.35	27.35	27.96	28.09	28.11	27.81	26.54	24.39	23.34
6	23.57	24.28	25.07	26.37	27.36	27.97	28.11	28.12	27.81	26.50	24.32	23.32
7	23.59	24.34	25.16	26.40	27.42	27.99	28.11	28.13	27.79	26.47	24.27	23.30
8	23.62	24.39	25.23	26.43	27.44	28.01	28.11	28.14	27.74	26.42	24.21	23.26
9	23.65	24.41	25.27	26.46	27.48	28.05	28.08	28.16	27.72	26.38	24.16	23.23
10	23.68	24.43	25.30	26.49	27.52	28.06	28.08	28.15	27.67	26.32	24.10	23.19
11	23.70	24.46	25.34	26.51	27.53	28.07	28.07	28.17	27.65	26.26	24.12	23.15
12	23.73	24.50	25.40	26.55	27.55	28.09	28.07	28.24	27.60	26.22	24.20	23.12
13	23.75	24.52	25.44	26.53	27.59	28.12	28.08	28.24	27.54	26.16	24.16	23.09
14	23.77	24.51	25.48	26.50	27.65	28.15	28.08	28.21	27.49	26.11	24.12	23.05
15	23.78	24.50	25.54	26.57	27.68	28.18	28.09	28.18	27.42	26.08	24.08	23.00
16	23.79	24.49	25.54	26.62	27.72	28.20	28.09	28.14	27.35	26.04	24.05	22.93
17	23.83	24.55	25.58	26.67	27.71	28.25	28.08	28.10	27.29	25.99	24.02	22.90
18	23.85	24.56	25.64	26.73	27.73	28.31	28.06	28.07	27.24	25.92	23.87	22.86
19	23.84	24.58	25.68	26.76	27.77	28.35	28.07	28.06	27.19	25.83	23.75	22.83
20	23.86	24.60	25.72	26.79	27.76	28.36	28.07	28.02	27.14	25.74	23.72	22.78
21	23.91	24.64	25.74	26.81	27.80	28.37	28.07	27.97	27.09	25.66	23.70	22.63
22	23.93	24.64	25.78	26.87	27.83	28.37	28.06	27.92	27.05	25.57	23.68	22.54
23	23.95	24.65	25.80	26.89	27.84	28.36	28.03	27.91	27.00	25.49	23.66	22.52
24	23.97	24.70	25.88	26.92	27.87	28.35	27.98	27.87	26.95	25.42	23.75	22.49
25	23.96	24.73	25.94	26.95	27.84	28.37	28.00	27.85	26.90	25.35	23.76	22.47
26	24.01	24.76	26.01	26.93	27.84	28.35	28.01	27.84	26.85	25.29	23.71	22.44
27	24.05	24.80	26.07	26.97	27.83	28.32	28.02	27.85	26.79	25.22	23.66	22.41
28	24.02	24.81	26.12	27.02	27.77	28.30	28.02	27.85	26.74	24.99	23.63	22.39
29	24.03	24.78	26.18	27.06	---	28.30	28.03	27.84	26.76	24.86	23.59	22.37
30	24.07	24.80	26.21	27.12	---	28.29	28.04	27.83	26.79	24.93	23.55	22.36
31	24.09	---	26.25	27.15	---	28.26	---	27.81	---	24.84	23.49	---
MEAN	23.80	24.51	25.55	26.67	27.60	28.17	28.08	28.03	27.35	25.91	24.00	22.92
MAX	24.09	24.81	26.25	27.15	27.87	28.37	28.23	28.24	27.82	26.74	24.68	23.41
MIN	23.51	24.15	24.85	26.29	27.18	27.84	27.98	27.81	26.74	24.84	23.49	22.36



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 1996 TO SEPTEMBER 1997

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)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
NOV											
26...	0845	7.3	131	7.8	0.5	--	10.6	K1	--	--	--
MAR											
20...	0830	8.2	164	7.7	0.5	--	10.2	<1	--	--	--
JUN											
03...	1330	350	78	8.0	8.5	8.9	8.0	--	33	11	1.2
AUG											
07...	1340	50	84	7.8	11.5	0.1	8.9	K5	37	13	1.0
08...	0730	--	--	--	--	--	--	--	--	--	--

DATE	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70957)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70958)	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										
26...	--	--	<0.01	0.10	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
MAR										
20...	--	--	<0.01	0.14	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
JUN										
03...	--	--	<0.01	0.12	<0.015	<0.2	<0.2	0.04	<0.01	<0.01
AUG										
07...	--	--	<0.01	0.11	0.050	<0.2	<0.2	<0.01	<0.01	<0.01
08...	0.2	<0.1	--	--	--	--	--	--	--	--

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 1996 TO SEPTEMBER 1997

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)
JUN							
03...	15.6	<1	<1	1280	<1	28	<3
AUG							
07...	<5.0	<1	<1	30	<1	<10	10

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)
JUN					AUG				
03...	1330	350	48	45	07...	1340	50	0.8	0.11

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 1996 TO SEPTEMBER 1997

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)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
JUN											
03...	1530	372	44	7.4	6.0	1.8	9.3	K1	18	6.2	0.57
AUG											
07...	1445	21	51	7.4	11.0	--	8.9	K3	21	7.4	0.62

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)
JUN								
03...	<0.01	0.08	<0.015	<0.2	<0.2	0.01	<0.01	<0.01
AUG								
07...	<0.01	0.05	0.060	<0.2	<0.2	<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)
JUN							
03...	52.5	1	5	270	7	32	130
AUG							
07...	24.1	<1	2	30	4	18	82

K-Based on non-ideal colony count.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)
JUN					AUG				
03...	1530	372	11	10.7	07...	1445	21	0.4	0.02

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.--April1995 to current year.

REMARKS.--No previous water-quality data prior to April 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)
NOV										
19...	1125	16	122	7.7	3.0	--	9.4	--	<1	--
JAN										
06...	1345	12	140	7.4	0.5	--	10.0	--	22	--
FEB										
18...	1210	9.6	140	7.7	2.0	--	8.5	--	<1	--
MAR										
19...	1500	16	137	7.6	4.0	--	8.8	--	<1	--
JUN										
05...	0815	722	66	7.6	4.0	7.5	9.1	--	K6	28
AUG										
08...	0815	70	87	7.8	8.5	0.2	9.5	0.2	23	38

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	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	0.11	0.050	<0.2	<0.2	<0.01	<0.01	<0.01
JAN										
06...	--	--	<0.01	0.11	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
FEB										
18...	--	--	<0.01	0.10	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
MAR										
19...	--	--	<0.01	0.11	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
JUN										
05...	9.4	1.0	<0.01	0.10	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
AUG										
08...	13	1.4	<0.01	0.09	0.040	<0.2	<0.2	<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)
JUN							
05...	18	<1	2	630	<1	20	35
AUG							
08...	<5	<1	<1	100	<1	20	29

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 1996 TO SEPTEMBER 1997

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)
JUN					AUG				
05...	0815	722	23.4	45.6	08...	0815	70	1	0.11

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 1996 TO SEPTEMBER 1997

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)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M (00572)	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M (00573)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70957)
NOV											
20...	0815	39	176	8.2	1.5	11.0	0.4	K6	--	--	--
JAN											
08...	1400	29	204	7.9	0.5	10.9	--	K1	--	--	--
FEB											
19...	1400	27	203	8.6	1.0	11.6	--	<1	--	--	--
MAR											
25...	1340	61	178	8.0	5.0	10.2	--	K2	--	--	--
JUN											
04...	0815	1370	73	7.6	5.0	9.6	0.4	K36	--	--	--
AUG											
08...	1225	123	135	7.9	14.5	7.4	0.4	K6	34.9	36.6	0.5

DATE	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70958)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS) (70950)	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...	--	--	<0.01	0.16	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
JAN										
08...	--	--	0.01	0.48	0.030	<0.2	<0.2	0.02	<0.01	0.02
FEB										
19...	--	--	0.01	0.46	<0.015	<0.2	<0.2	0.03	<0.01	0.02
MAR										
25...	--	--	0.01	0.39	<0.015	0.3	<0.2	0.07	<0.01	0.02
JUN										
04...	--	--	<0.01	0.06	<0.015	<0.2	<0.2	0.01	<0.01	<0.01
AUG										
08...	<0.1	3470	<0.01	0.13	0.060	<0.2	<0.2	<0.01	<0.01	<0.01

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 1996 TO SEPTEMBER 1997

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								
26...	1110	18	298	8.1	0.0	10.4	<1	<0.01
JAN								
07...	0915	e13	307	7.9	0.0	11.0	K1	0.01
FEB								
21...	0945	e11	290	8.1	0.0	9.0	<1	0.01
MAR								
28...	1000	13	309	7.9	0.0	8.8	K1	<0.01
JUN								
06...	0900	511	156	8.0	4.5	9.0	K1	<0.01
AUG								
12...	1540	58	192	8.1	10.0	8.5	K2	<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							
26...	0.08	0.020	<0.2	<0.2	<0.01	<0.01	<0.01
JAN							
07...	0.12	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
FEB							
21...	0.10	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
MAR							
28...	0.10	<0.015	0.3	<0.2	<0.01	<0.01	<0.01
JUN							
06...	0.10	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
AUG							
12...	0.08	<0.015	<0.2	<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 1996 TO SEPTEMBER 1997

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								
25...	1445	16	307	8.2	0.0	12.9	<1	<0.01
JAN								
07...	1300	13	323	7.9	0.0	10.7	K1	0.01
FEB								
19...	0920	11	328	8.0	0.0	9.4	<1	<0.01
MAR								
20...	1045	13	331	8.0	2.5	10.9	<1	<0.01
JUN								
04...	1430	724	181	7.9	11.0	8.2	14	<0.01
AUG								
12...	1315	91	211	7.9	10.5	8.1	K7	<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							
25...	0.06	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
JAN							
07...	0.11	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
FEB							
19...	0.09	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
MAR							
20...	0.10	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
JUN							
04...	0.09	<0.015	<0.2	<0.2	0.01	<0.01	<0.01
AUG							
12...	0.09	<0.015	<0.2	<0.2	<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 SE1/4SW1/4 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 1996 TO SEPTEMBER 1997

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)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70957)
NOV									
20...	0920	38.8	301	8.32	1.5	10.3	0.4	K2	--
JAN									
08...	1200	24	337	8.28	1.0	11.1	--	K1	--
FEB									
19...	1515	16.5	327	8.50	0.0	10.9	--	K1	--
MAR									
26...	0800	22.9	331	8.30	0.0	12.4	--	<1	--
JUN									
04...	1130	1040	175	7.96	10.0	8.9	0.4	24	--
AUG									
08...	1200	--	--	--	--	--	--	--	4.1
13...	0745	80	252	8.16	8.0	8.6	0.3	45	--

DATE	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70958)	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...	--	0.02	0.10	0.030	<0.2	<0.2	0.01	<0.01	0.01
JAN									
08...	--	0.01	0.10	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
FEB									
19...	--	<0.01	0.06	0.060	<0.2	<0.2	<0.01	<0.01	<0.01
MAR									
26...	--	<0.01	0.08	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01
JUN									
04...	--	<0.01	0.09	<0.010	<0.2	<0.2	0.01	<0.01	<0.01
AUG									
08...	0.3	--	--	--	--	--	--	--	--
13...	--	<0.01	0.07	<0.010	<0.2	<0.2	<0.01	0.02	<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.--Not determined.

PERIOD OF RECORD.--October 1996 to September 1997.

REMARKS.--No previous water-quality data prior to October 1996.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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												
22...	0945	34	243	8.2	2.5	1.4	10	1.8	K9	110	30	8.0
MAR												
27...	0800	41	194	8.0	1.0	3.7	10	0.6	K2	81	22	6.3
MAY												
29...	0845	360	146	7.8	7.0	5.5	9.3	1.5	97	65	19	4.4
AUG												
13...	1020	96	171	8.0	13.0	1.5	8.1	0.6	93	73	21	5.3

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY 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)
NOV											
22...	6.7	0.3	1.5	114	13	1.1	0.2	20	149	0.20	13.5
MAR											
27...	6.9	0.3	2.5	84	16	1.6	0.1	20	126	0.17	13.9
MAY											
29...	4.2	0.2	1.3	67	6.9	0.6	0.1	18	95	0.13	93.1
AUG											
13...	5.3	0.3	1.5	82	7.4	0.5	0.1	22	112	0.15	29.0

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								
22...	0.03	<0.05	0.020	<0.2	<0.2	0.03	<0.01	0.02
MAR								
27...	<0.01	0.06	<0.015	0.4	<0.2	0.07	0.03	0.03
MAY								
29...	<0.01	0.05	<0.015	0.3	<0.2	0.05	<0.01	0.02
AUG								
13...	<0.01	0.05	<0.015	<0.2	0.3	0.05	<0.01	0.02

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 1996 TO SEPTEMBER 1997

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							
22...	<5	<1	<1	260	<1	60	<3
MAY							
29...	5.6	<1	<1	910	<1	53	<3
AUG							
13...	<5	<1	<1	390	<1	42	<3

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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				
22...	0945	34	3	0.28	29...	0845	362	58	56
MAR					AUG				
27...	0800	41	7	0.73	13...	1020	96	8	2.0

SLATE AND EAST RIVER WINTER SYNOPTIC SAMPLING

(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 December 28 and 29, 1996. Samples were collected several times during a 24 hour period to investigate winter low flow water quality in the Slate and East Rivers. Data, collected during this synoptic, for stations 09111500 (Slate River near Crested Butte, CO.) and 09112200 (East River below Cement Creek near Crested Butte, CO.) is published elsewhere in this report with other water-quality data for these stations.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)
09110500 EAST RIVER NEAR CRESTED BUTTE, CO. (LAT 38 51 52N LONG 106 54 33W)												
DEC 1996												
28...	1210	e31	330	8.0	0.0	9.5	170	55	8.9	2.2	0.1	0.7
28...	1600	31	327	8.1	0.0	9.6	170	54	8.0	2.3	0.1	0.7
28...	2030	e31	330	7.9	0.5	9.8	170	53	8.6	2.2	0.1	0.7
28...	2340	e31	331	7.9	0.0	9.5	170	55	8.8	2.2	0.1	0.7
29...	0715	e29	335	7.8	0.0	9.7	180	56	9.1	2.2	0.1	0.7
29...	1140	29	331	7.8	0.0	9.8	170	54	8.7	2.2	0.1	0.7
384853106541500 SLATE RIVER AT MOUTH NEAR CRESTED BUTTE, CO. (LAT 38 48 53N LONG 106 54 15W)												
DEC 1996												
28...	1230	27	193	7.5	1.0	8.0	78	25	3.7	5.5	0.3	0.9
28...	1605	27	195	7.6	0.5	--	80	26	3.7	5.8	0.3	0.9
28...	2005	27	195	7.6	0.0	--	75	24	3.7	5.7	0.3	0.9
28...	2335	27	188	7.7	0.0	--	75	24	3.6	5.6	0.3	0.8
29...	0640	26	185	7.6	0.0	--	78	25	3.8	5.7	0.3	0.8
29...	1100	30	193	8.1	--	--	79	25	4.0	5.6	0.3	0.8
385106106571000 SLATE RIVER ABOVE BAXTER GULCH AT HWY 135 NEAR CRESTED BUTTE, CO.(LAT 38 51 06N LONG 106 57 10W)												
DEC 1996												
28...	1125	e23	195	7.5	0.0	8.5	80	26	3.7	6.3	0.3	0.9
28...	1500	e23	185	7.6	0.0	--	72	23	3.5	6.1	0.3	0.9
28...	1855	e23	183	7.5	0.0	--	75	24	3.6	6.1	0.3	0.8
28...	2245	e23	179	7.5	0.0	--	69	22	3.5	6.2	0.3	0.9
29...	0610	e23	205	7.3	0.0	8.1	83	27	3.7	6.2	0.3	1.0
29...	0950	e23	205	7.5	0.0	--	83	27	3.8	6.3	0.3	0.9
385237106583300 SLATE RIVER AT HWY 135 AT CRESTED BUTTE, CO. (LAT 38 52 37N LONG 106 58 33W)												
DEC 1996												
28...	1115	19	156	7.3	0.5	9.4	64	21	2.7	5.6	0.3	0.6
28...	1610	18	191	7.2	0.0	9.3	71	24	2.7	5.3	0.3	0.6
28...	1925	17	186	7.3	0.0	9.0	71	24	2.8	5.3	0.3	0.6
29...	0625	13	161	7.4	0.0	9.1	61	20	2.7	5.4	0.3	0.6
29...	1050	e19	158	7.4	0.0	9.6	67	22	2.9	5.7	0.3	0.6

e-Estimated.

SLATE AND EAST RIVER WINTER SYNOPTIC SAMPLING--Continued

(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	BICAR-[a] BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-[b] 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)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
09110500 EAST RIVER NEAR CRESTED BUTTE, CO. (LAT 38 51 52N LONG 106 54 33W)											
DEC 1996											
28...	149	122	49	0.3	<0.1	5.6	198	195	0.27	--	<0.01
28...	146	120	49	0.3	<0.1	5.2	197	192	0.27	16.3	<0.01
28...	151	124	49	0.3	<0.1	5.4	199	194	0.27	--	<0.01
28...	150	123	49	0.3	<0.1	5.5	197	196	0.27	--	<0.01
29...	151	124	50	0.3	<0.1	5.7	202	199	0.27	--	<0.01
29...	145	119	50	0.3	<0.1	5.5	198	193	0.27	15.7	<0.01
384853106541500 SLATE RIVER AT MOUTH NEAR CRESTED BUTTE, CO. (LAT 38 48 53N LONG 106 54 15W)											
DEC 1996											
28...	62	51	31	1.8	0.3	6.8	116	107	0.16	8.52	<0.01
28...	72	59	31	1.9	0.3	6.6	115	113	0.16	8.45	<0.01
28...	72	59	30	1.8	0.3	6.6	116	110	0.16	8.52	<0.01
28...	72	59	27	1.8	0.3	7.0	110	107	0.15	8.08	<0.01
29...	73	61	25	1.8	0.2	6.8	111	106	0.15	7.67	<0.01
29...	72	59	31	1.8	0.3	6.9	113	112	0.15	9.31	<0.01
385106106571000 SLATE RIVER ABOVE BAXTER GULCH AT HWY 135 NEAR CRESTED BUTTE, CO.(LAT 38 51 06N LONG 106 57 10W)											
DEC 1996											
28...	62	51	34	2.1	0.4	6.4	117	112	0.16	--	<0.01
28...	65	53	30	2.0	0.3	6.1	106	105	0.14	--	<0.01
28...	63	52	28	1.9	0.3	6.3	106	103	0.14	--	0.01
28...	65	53	27	2.0	0.3	6.2	105	101	0.14	--	<0.01
29...	66	54	37	2.0	0.4	6.2	118	117	0.16	--	0.01
29...	66	54	37	2.1	0.4	6.3	117	118	0.16	--	0.01
385237106583300 SLATE RIVER AT HWY 135 AT CRESTED BUTTE, CO. (LAT 38 52 37N LONG 106 58 33W)											
DEC 1996											
28...	52	43	29	0.8	0.3	5.6	94	92	0.13	4.75	<0.01
28...	52	43	46	0.8	0.5	5.3	119	111	0.16	5.69	<0.01
28...	50	41	45	0.8	0.5	5.3	117	109	0.16	5.34	<0.01
29...	55	45	32	0.8	0.4	5.5	97	95	0.13	3.43	<0.01
29...	54	44	31	0.8	0.4	5.8	98	96	0.13	--	<0.01

a-Field dissolved bicarbonate, determined by incremental titration method.
b-Field total dissolved alkalinity, determined by incremental titration method.

SLATE AND EAST RIVER WINTER SYNOPTIC SAMPLING--Continued

(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	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)
09110500 EAST RIVER NEAR CRESTED BUTTE, CO. (LAT 38 51 52N LONG 106 54 33W)											
DEC 1996											
28...	0.09	0.02	<0.2	<0.2	<0.01	<0.01	<0.01	0.6	0.1	10	12
28...	0.09	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	0.5	0.2	10	11
28...	0.09	0.02	<0.2	<0.2	<0.01	<0.01	<0.01	0.5	0.2	9	12
28...	0.09	0.05	<0.2	<0.2	0.04	0.02	<0.01	0.6	0.2	10	12
29...	0.09	0.03	<0.2	<0.2	<0.01	<0.01	<0.01	0.8	0.1	5	12
29...	0.09	0.02	<0.2	<0.2	<0.01	<0.01	<0.01	0.8	0.1	8	11
384853106541500 SLATE RIVER AT MOUTH NEAR CRESTED BUTTE, CO. (LAT 38 48 53N LONG 106 54 15W)											
DEC 1996											
28...	0.20	0.04	<0.2	<0.2	0.01	0.01	0.03	0.9	0.4	19	12
28...	0.22	0.06	<0.2	<0.2	0.01	0.01	0.03	0.9	0.3	13	11
28...	0.25	0.07	<0.2	<0.2	0.01	<0.01	0.02	0.9	0.3	13	12
28...	0.25	0.04	<0.2	<0.2	0.02	<0.01	0.02	0.9	0.2	15	11
29...	0.24	0.05	<0.2	<0.2	0.01	<0.01	0.02	0.9	0.2	15	11
29...	0.23	0.04	<0.2	<0.2	0.01	<0.01	0.02	0.9	0.3	26	12
385106106571000 SLATE RIVER ABOVE BAXTER GULCH AT HWY 135 NEAR CRESTED BUTTE, CO.(LAT 38 51 06N LONG 106 57 10W)											
DEC 1996											
28...	0.25	0.13	<0.2	<0.2	0.04	0.02	0.04	1.0	0.3	25	54
28...	0.26	0.12	<0.2	<0.2	0.03	0.01	0.04	1.0	0.2	28	49
28...	0.25	0.08	<0.2	<0.2	0.03	0.02	0.03	1.0	0.2	21	48
28...	0.23	0.11	<0.2	<0.2	0.03	0.01	0.03	1.0	0.3	30	46
29...	0.26	0.14	0.2	<0.2	0.04	0.03	0.03	1.0	0.2	32	57
29...	0.29	0.15	0.2	0.2	0.02	0.02	0.03	1.0	0.3	30	57
385237106583300 SLATE RIVER AT HWY 135 AT CRESTED BUTTE, CO. (LAT 38 52 37N LONG 106 58 33W)											
DEC 1996											
28...	0.08	0.02	<0.2	<0.2	<0.01	<0.01	<0.01	0.8	0.1	47	48
28...	0.08	0.03	<0.2	<0.2	<0.01	<0.01	<0.01	0.8	0.1	72	63
28...	0.09	0.02	<0.2	<0.2	<0.01	<0.01	<0.01	0.7	0.1	87	59
29...	0.09	0.02	<0.2	<0.2	<0.01	<0.01	<0.01	0.7	0.1	87	48
29...	0.09	0.02	<0.2	<0.2	<0.01	<0.01	<0.01	0.7	0.2	88	53

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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.