

Water Resources Data Colorado Water Year 1995

Volume 2. Colorado River Basin

By R.M. Crowfoot, R.C. Ugland, W.S. Maura, R.A. Jenkins,
and G.B. O'Neill

Water-Data Report CO-95-2

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

UNITED STATES DEPARTMENT OF THE INTERIOR

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U. S. GEOLOGICAL SURVEY

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1996

CALENDAR FOR WATER YEAR 1995

1994

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1995

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

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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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This report was prepared in cooperation with the State of Colorado and with other agencies under the general supervision of D. J. Lystrom, District Chief, Colorado.

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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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Grand Lake:		
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SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED
IN THIS VOLUME

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WATER RESOURCES DATA - COLORADO, 1995

VOLUME 2: COLORADO RIVER BASIN

By R. M. Crowfoot, R. C. Ugland, W. S. Maura, 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".

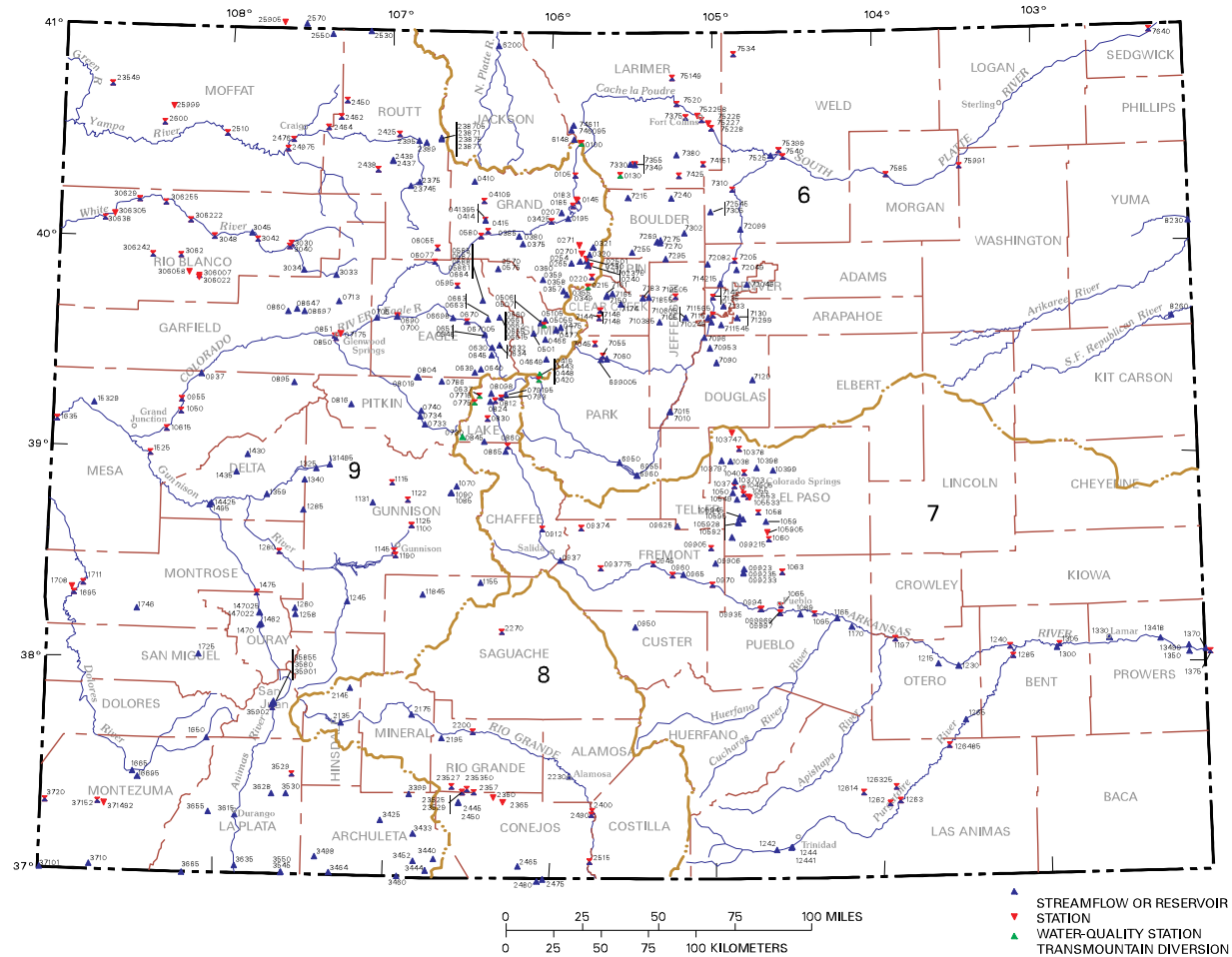
This report (Volume 2 of two volumes) includes records of surface water in the State, west of the Continental Divide. Specifically, it contains: (1) discharge records for 176 surface-water stations, and peak discharge data for 5 partial-record surface-water stations and 1 low-flow partial-record site; (2) stage and contents for 13 lakes and reservoirs; and (3) surface-water-quality data for 64 surface-water stations, 6 reservoirs, miscellaneous surface-water-quality data for 117 gaged sites, 28 miscellaneous 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. Five 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-95-2." 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.



Base from U.S. Geological Survey
1:100,000 Digital Line Graphs
Lambert projection
Standard Parallels 33° and 45°

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

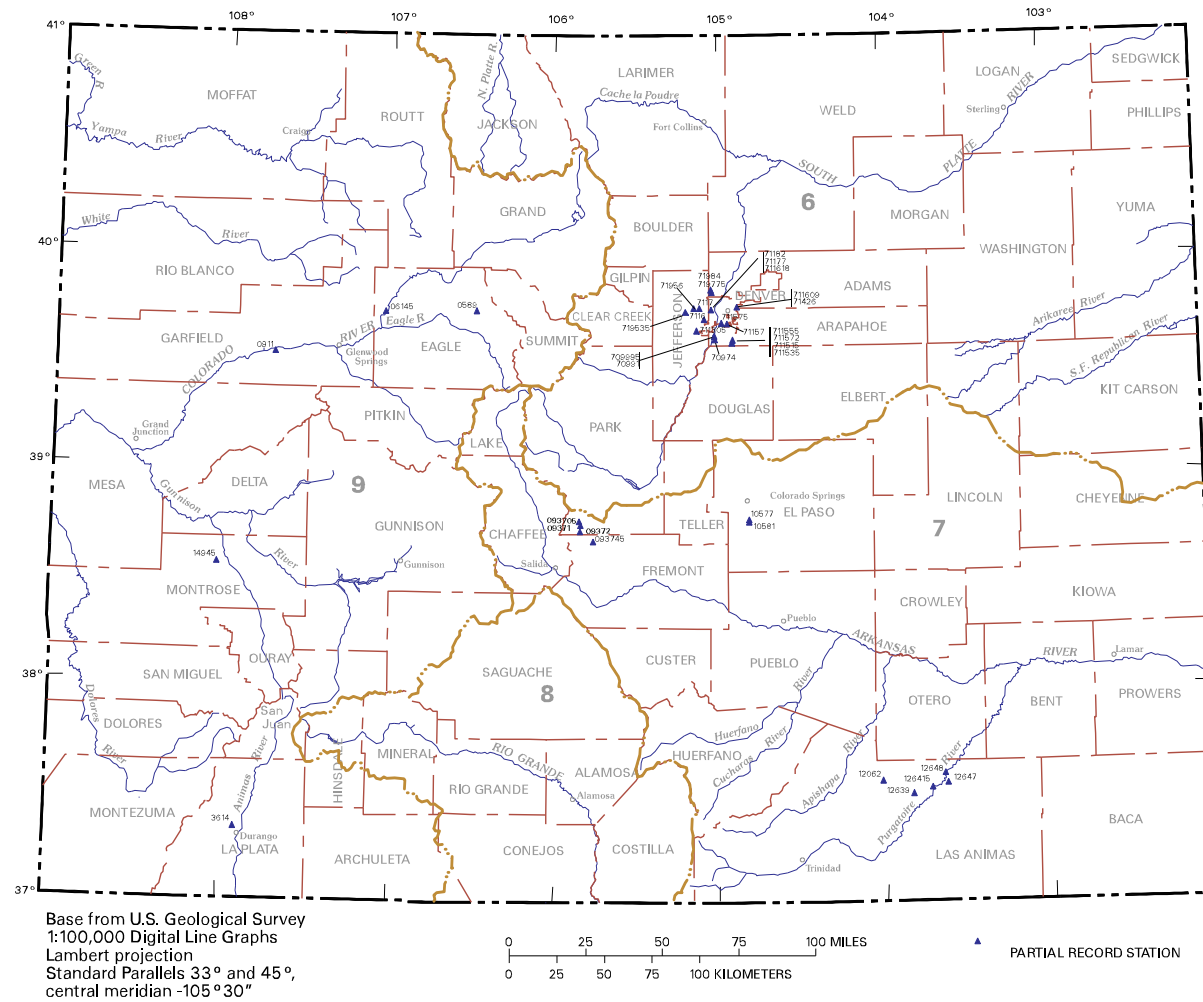


Figure 2.--Map showing locations of crest-stage partial record stations in Colorado.

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.
 Center Soil Conservation District.
 Cherokee Metropolitan District.
 City and County of Denver, Board of Water Commissioners.
 City of Aurora.
 City of Black Hawk.
 City of Boulder.
 City of Colorado Springs.
 City of Durango.
 City of Englewood.
 City of Fort Collins.
 City of Glendale.
 City of Glenwood Springs.
 City of Greenwood Village.
 City of Gunnison.
 City of Lakewood.
 City of Lamar.
 City of Las Animas.
 City of Longmont.
 City of Loveland.
 City of Pueblo.
 City of Rocky Ford.
 City of Steamboat Springs.
 Clear Creek Board of County Commissioners.
 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.
 Eagle County Board of Commissioners.
 East Grand County Water-Quality Board.
 Evergreen Metropolitan District.
 Fountain Valley Authority.
 Fraser Sanitation District.
 Fremont Sanitation District.
 Garfield County.
 Grand County Water and Sanitation District.
 Gunnison County.
 La Plata County.
 Littleton-Englewood Bi-City.
 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 County.
 Pueblo West Metro Water District.
 Purgatoire River Water Conservancy District.
 Rio Blanco County Board of County Commissioners.
 Rio Blanco Water Conservancy District.
 Rio Grande Water Conservation District.
 Routt County.
 Southeastern Colorado Water Conservancy District.
 Southern Ute Indian Tribe.
 Southwestern Colorado Water Conservation District.
 St. Charles Mesa Water District.
 Summit County.
 Teller - Park Soil Conservation District.
 Town of Breckenridge.
 Town of Crested Butte.
 Town of Meeker.
 Town of Rangely.
 Town of Vail.
 Trinchera Water Conservancy District.
 Uncompahgre Valley Water Users Association.
 Upper Arkansas Council of Governments.
 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.
 Vail Valley Consolidated Water Authority.
 Winter Park Water and Sanitation District.
 Yellowjacket Water Conservancy District.

Financial assistance was also provided by the U.S. Army, Corps of Engineers; U.S. Army; U.S. Air Force; 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 1995 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 of the water year when precipitation is predominately snow and for the remaining 6 months 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 16 percent greater than normal for the Colorado Drainage Basin. During April-September, precipitation was 39 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 1995 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 1995 and departures-from-normal precipitation (1961-90), in inches

National Weather Service division	October-March		April-September		Water year 1995	
	Precipitation	Departure from normal	Precipitation	Departure from normal	Precipitation	Departure from normal
Colorado Drainage Basin	9.03	1.23	11.60	3.25	20.63	4.48

Streamflow

Monthly mean discharges during water year 1995 at selected streamflow-gaging stations are compared to long-term (reference period to 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 for the selected gaging stations indicate that monthly mean discharges during the water year had general trends similar to the long-term mean monthly discharges. Monthly mean discharges at the selected gaging stations were not consistently higher or lower than the long-term means during April-May. However, all monthly mean discharges were greater than the long-term means during June-September. Annual mean discharges for water year 1995 at the selected gaging stations were from 32 to 80 percent greater than the long-term means.

For April in water year 1995, the graphs in figure 4 indicate that all monthly mean discharges were less than the long-term means. For May in water year 1995, the graphs indicate that monthly mean discharges were greater than the long-term means only at gaging stations 09114500, Gunnison River near Gunnison (fig. 4, site B); 09163500, Colorado River near Colorado-Utah State line (fig. 4, site C); and 09172500, San Miguel River near Placerville (fig. 4, site D). The graphs indicate that the highest flows for water year 1995 occurred in June and July. The June mean discharge exceeded the long-term mean by 57 percent at gaging station 0907000, Eagle River below Gypsum (fig. 4, site A); by 110 percent at gaging station 09114500, Gunnison River near Gunnison (fig. 4, site B); by 96 percent at gaging station 09163500, Colorado River near Colorado-Utah State line (fig. 4, site C); by 63 percent at gaging station 09172500, San Miguel River near Placerville (fig. 4, site D); by 85 percent at gaging station 09251000, Yampa River near Maybell (fig. 4, site E); by 80 percent at gaging station 09304500, White River near Meeker (fig. 4, site F); and by 72 percent at gaging station 09361500, Animas River at Durango (fig. 4, site G). The July mean discharge exceeded the long-term mean by 189 percent at gaging station 0907000, Eagle River below Gypsum (fig. 4, site A); by 267 percent at gaging station 09114500, Gunnison River near Gunnison (fig. 4, site B); by 296 percent at gaging station 09163500, Colorado River near Colorado-Utah State line (fig. 4, site C); by 157 percent at gaging station 09172500, San Miguel River near Placerville (fig. 4, site D); by 246 percent at gaging station 09251000, Yampa River near Maybell (fig. 4, site E); by 221 percent at gaging station 09304500, White River near Meeker (fig. 4, site F); and by 173 percent at gaging station 09361500, Animas River at Durango (fig. 4, site G).

Peak discharges during water year 1995 and for the period of record (to previous water year) for selected gaging stations are listed in table 2. Most water year 1995 peak discharges were greater than the 75th-percentile value for the period of record. High peak discharges also occurred at gaging stations 09346400, San Juan River near Carracas (2d highest); 09034250, Colorado River at Windy Gap near Granby (3d highest); 09085100, Colorado River below Glenwood Springs (3d highest); 09114500, Gunnison River near Gunnison (4th highest); 09304500, White River near Meeker (4th highest); 09070000, Eagle River below Gypsum (5th highest); and 09163500, Colorado River near Colorado-Utah State line (5th highest). Of the selected gaging stations listed in table 2, peak discharges less than the 75th-percentile value occurred in water year 1995 only at gaging stations 09149500, Uncompaghe River at Delta (less than 75th percentile, but greater than median); 09152500, Gunnison River near Grand Junction (less than 75th percentile, but greater than median); 09239500, Yampa River at Steamboat Springs (greater than median, but less than 75th percentile); and 09171100, Dolores River near Bedrock (greater than 25th percentile, but less than median).

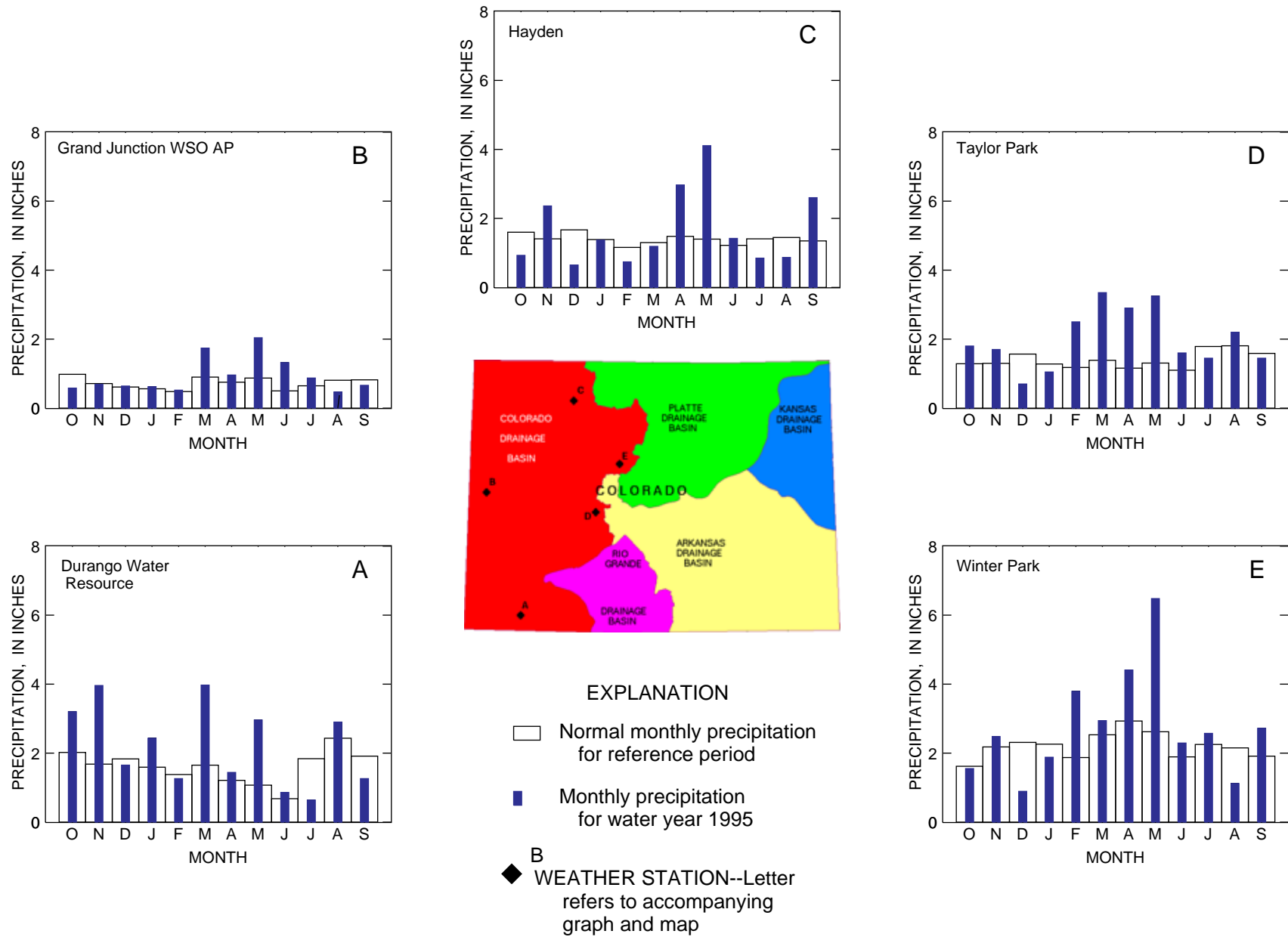


Figure 3.--Comparison of monthly precipitation for water year 1995 to normal monthly precipitation for the reference period 1961-90.

Table 2.--Peak discharges for water year 1995 and for the period of record at selected gaging stations[mi², square miles; ft³/s, cubic feet per second; WY, water year]

Gaging station identification	Drainage area (mi ²)	Period of record (water years)	Water year 1995		Period of record		Remarks on WY 1995 peak discharge
			Date	Peak discharge (ft ³ /s)	Date	Peak discharge (ft ³ /s)	
09034250 Colorado River at Windy Gap near Granby	789	1982-94	6/18	2,700	5/25/84	5,260	Greater than 75th percentile (3d highest)
09070000 Eagle River below Gypsum	945	1947-94	6/18	6,360	5/25/84	7,020	Greater than 75th percentile (5th highest)
09070500 Colorado River near Dotsero	4,394	1941-94	6/18	15,400	5/25/84	22,200	Greater than 75th percentile
09085000 Roaring Fork River at Glenwood Springs	1,451	1906-9, 1911-94	7/13	13,000	7/1/57	19,000	Greater than 75th percentile
09085100 Colorado River below Glenwood Springs	6,013	1967-94	6/18	23,800	5/25/84	31,500	Greater than 75th percentile (3d highest)
09095500 Colorado River near Cameo	8,050	1934-94	6/18	29,600	5/26/84	39,300	Greater than 75th percentile
09114500 Gunnison River near Gunnison	1,012	1911-27, 1945-94	6/18	7,620	6/13/18	11,400	Greater than 75th percentile (4th highest)
09132500 North Fork Gunnison River near Somerset	526	1934-94	6/17	5,660	5/24/84	9,220	Greater than 75th percentile
09149500 Uncompahgre River at Delta	1,115	1903-31, 1939-94	6/18	2,170	5/15/84	5,800	Less than 75th percentile
09152500 Gunnison River near Grand Junction	7,928	1897-99, 1902-6, 1917-94	6/18	18,000	5/23/20	35,700	Less than 75th percentile
09163500 Colorado River near Colorado-Utah State line	17,843	1951-94	6/19	49,300	5/27/84	69,800	Greater than 75th percentile (5th highest)
09166500 Dolores River at Dolores	504	1896-1903, 1911-12, 1922-94	6/17	5,340	10/5/11	10,000	Greater than 75th percentile
09171100 Dolores River near Bedrock	2,145	1970-94	6/21	3,240	4/30/73	9,500	Greater than 25th percentile
09239500 Yampa River at Steamboat Springs	604	1904-6, 1910-94	6/16	3,720	6/14/21	6,820	Greater than median
09251000 Yampa River near Maybell	3,410	1904-5, 1916-94	6/17	13,300	5/17/84	25,100	Greater than 75th percentile
09304500 White River near Meeker	755	1901-5, 1910-94	6/17	5,280	5/25/84	6,950	Greater than 75th percentile (4th highest)
09346400 San Juan River near Carracas	1,230	1962-94	3/6	8,590	9/6/70	9,730	Greater than 75th percentile (2d highest)
09361500 Animas River at Durango	692	1912-94	6/16	7,310	10/5/11	25,000	Greater than 75th percentile

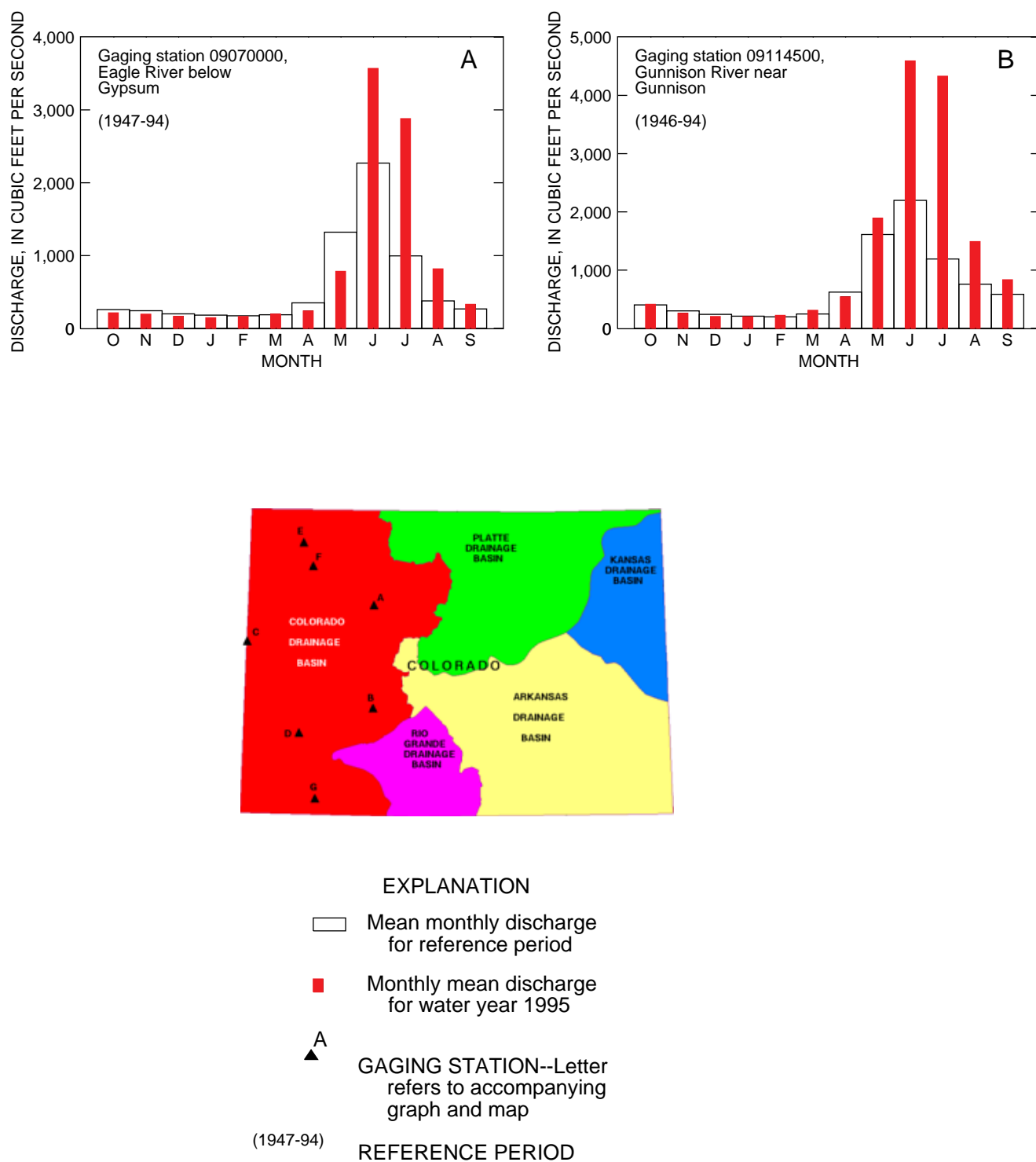


Figure 4.--Comparison of monthly discharges for water year 1995 to mean monthly discharges for the reference periods indicated on the individual graphs.

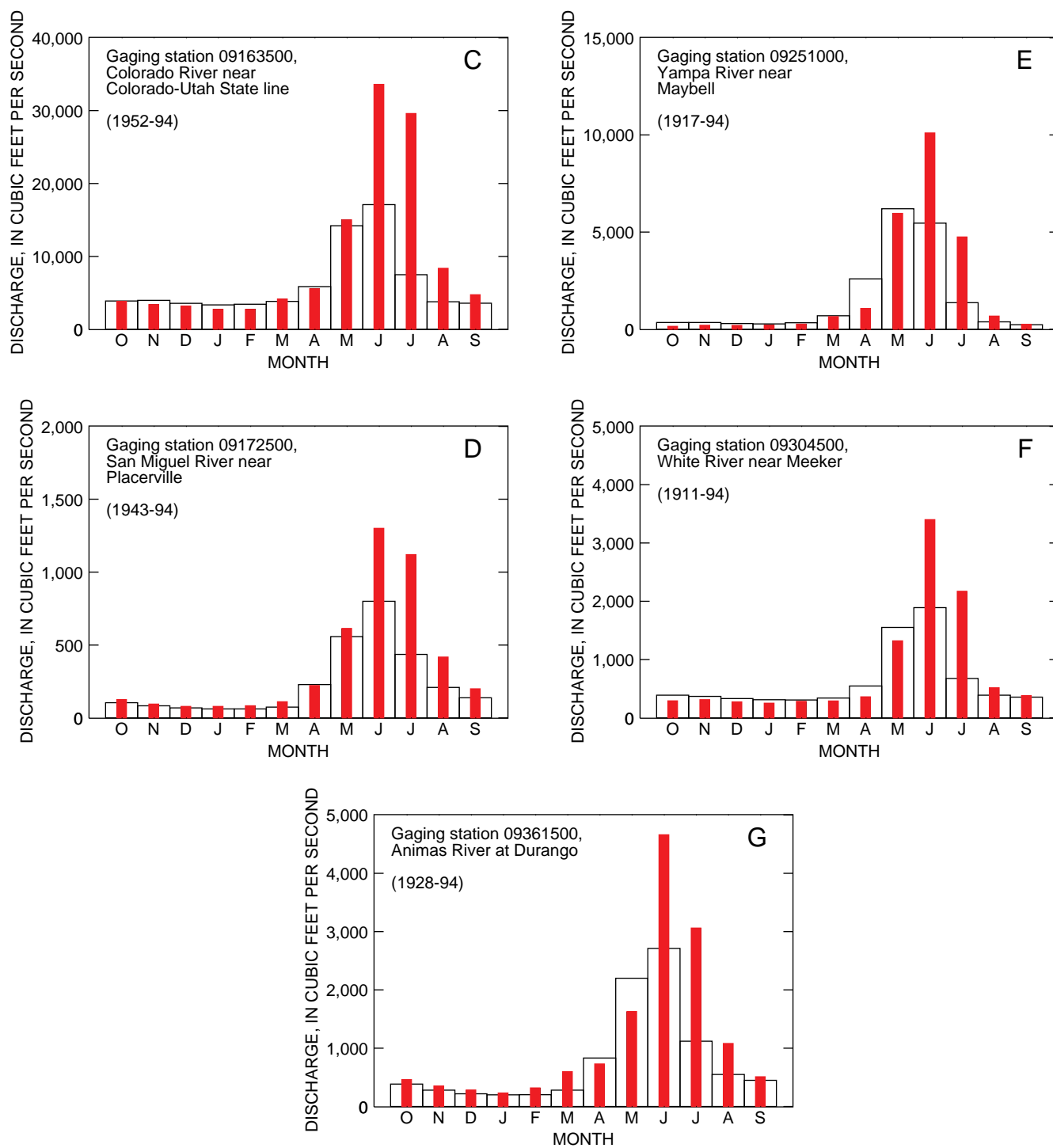


Figure 4.--(continued).

Chemical Quality of Streamflow

To determine if substantial changes occurred during water year 1995 in the chemical quality of streamflow, an analysis was made of specific conductance, which was measured at gaging stations on four representative streams. Each 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 1995 is compared to the reference period distribution of specific conductance in figure 5.

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. A statistical technique called the Wilcoxon-Mann-Whitney rank sum test was used to determine if there were significant differences between values of specific conductance for water year 1995 and values for the period of record (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 1995 was equal to the mean for the period of record. 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 α (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.

Results of the Wilcoxon-Mann-Whitney rank sum tests for the four gaging stations are listed in table 3. At gaging station 09095500, Colorado River near Cameo, and gaging station 09306290, White River below Boise Creek, near Rangely, the mean specific conductance for water year 1995 and the mean specific conductance for the period of record are not statistically different at the specified level. However, mean specific conductance during water year 1995 was statistically different than the water year 1985-94 period for gaging station 09152500, Gunnison River near Grand Junction (fig. 5, site B), and gaging station 09361500, Animas River at Durango (fig. 5, site D). Mean specific conductance for the water year could be reduced at these two location because monthly mean discharges at these two sites for the June-August 1995 period were higher than the long-term mean monthly discharges, and these high flows during June through August provided more water for dilution and delayed the usual return to baseflow condition by the end of the summer.

Table 3.--Results of Wilcoxon-Mann-Whitney rank sum tests comparing mean specific conductance of discharge for water year 1995 with mean for the period of record 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 1994			Period of record			Period used (water years)	t_R	t_{tab}	Hypothesis
	Number of values	Mean	Standard devia- tion	Number of values	Mean	Standard devia- tion				
09095500 Colorado River near Cameo-----	23	874	386	499	867	269	1985-94	0.78	1.96	A
09152500 Gunnison River near Grand Junction---	22	751	267	185	902	304	1985-94	-2.15	1.98	R
09306290 White River below Boise Creek, near Rangely-----	13	600	192	149	676	175	1985-94	-1.75	1.98	A
09361500 Animas River at Durango-----	8	305	140	84	459	213	1987-94	-2.00	1.99	R

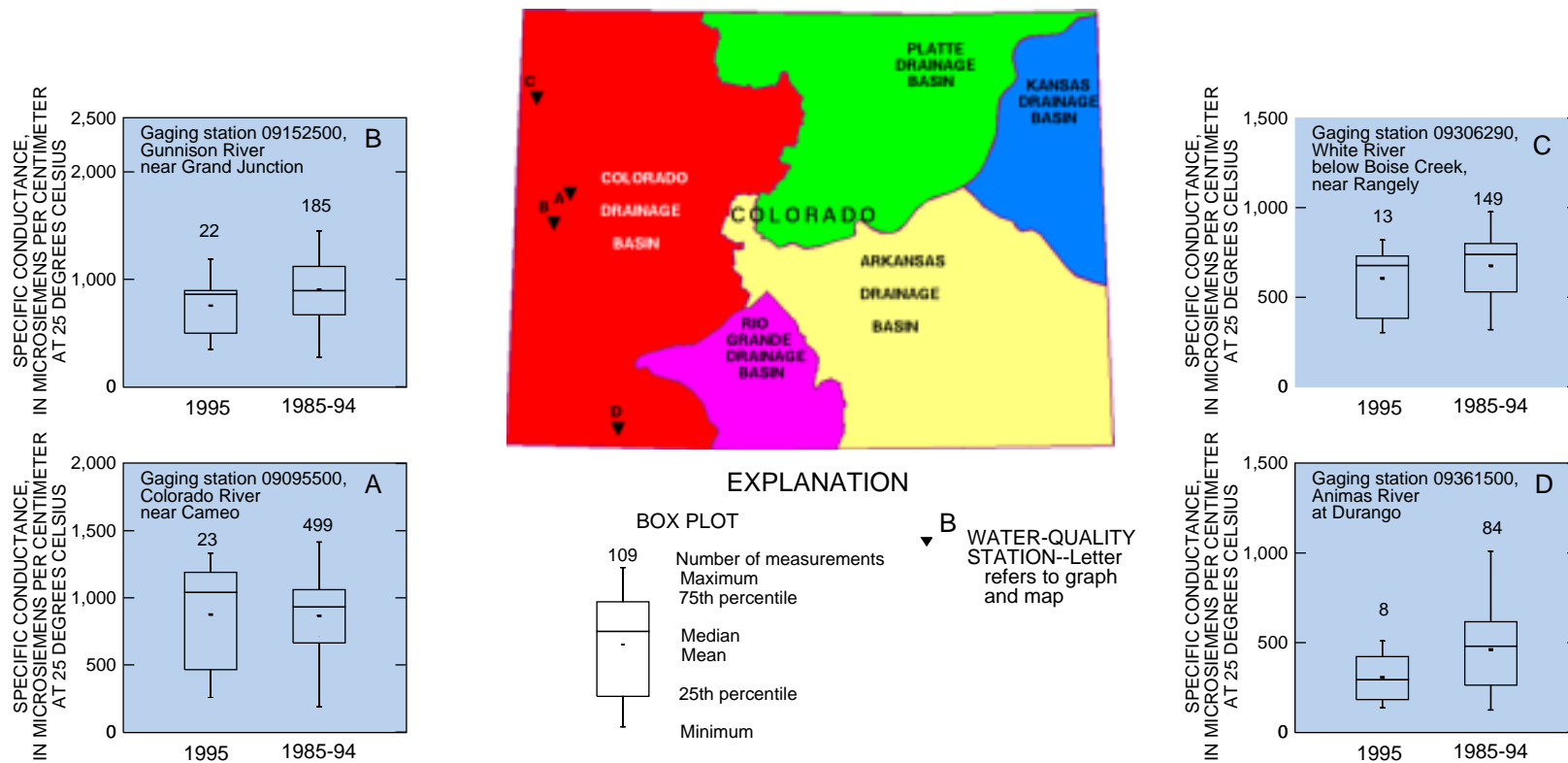


Figure 5.--Comparison of range and distribution of specific conductance measured during water year 1995 to long-term values.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network is a network of 53 small 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 the activities of man.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 142 sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

National Trends Network (NTN) is a 150-station network for sampling atmospheric deposition in the United States. The purpose of the network is to determine the variability, both in location and in time, of the composition of wet atmospheric deposition, which includes snow, rain, sleet and hail. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP).

National Water-Quality Assessment Program (NAWQA) is a nationwide program that was implemented full-scale by the U.S. Geological Survey in 1991. The long term goals of the NAWQA program are to describe the status and trends in the quality of a large, representative part of the Nation's surface-water, and ground-water resources and to provide a sound, scientific understanding of the primary natural and human factors affecting the quality of these resources. The principle building blocks of the NAWQA program are the study-unit investigations on which national-level assessments are based. Study-unit investigations are comprehensive and include information on water, sediment, biota, and aquatic and terrestrial habitats within its boundaries. Of the 60 study unit-investigations that comprise the NAWQA program, portions of three are located in Colorado; the South Platte River, Rio Grande Valley, and Upper Colorado River Basins. Selected water-quality data for three surface-water monitoring sites within the Upper Colorado River Basin NAWQA are included in volume two of this report.

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 1995 water year that began on October 1, 1994, and ended September 30, 1995. 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, 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.

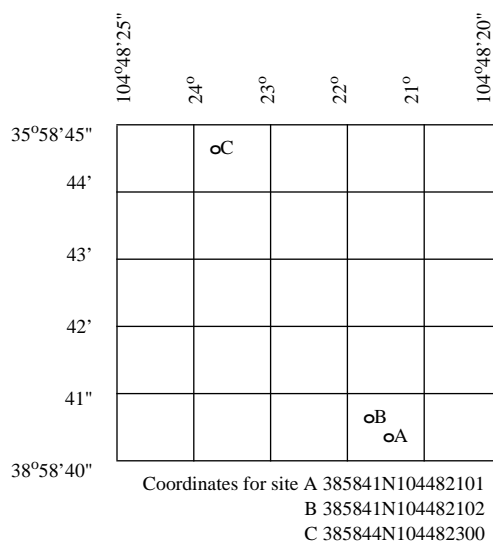
Downstream Order System

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 indentation in the "List of Stations" in the front of this report. Each indentation represents one rank. This downstream order and system of indentation show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-digit number for each station, such as 09010500, which appears just to the left of the station name, includes the two-digit Part number "09" plus the six-digit downstream-order number "010500." The Part number designates the major river basin; for example, Part "09" is the Colorado River basin.

Latitude-Longitude System

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



System for numbering wells, springs, and miscellaneous sites.

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

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

The 36-mi² area described by the township and range designation is subdivided into 1-mi² areas called sections. The sections are numbered sequentially. The third number of the well location designates the section. The section, which contains 640 acres, is subdivided into quarter sections. The 160-acre area is designated by the first letter following the section: A indicates the northeast quarter, B the northwest, C the southwest, and D the southeast. The quarter section is subdivided into quarter-quarter sections. The 40-acre area is designated in the same manner by the second letter following the section. The 10-acre area is designated in the same manner by the third letter following the section. If more than one well is located within the 10-acre tract, the wells are numbered sequentially in the order in which they were originally inventoried. If this number is necessary, it will follow the three-letter designation.

Records of Stage and Water Discharge

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

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

Data Collection and Computation

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

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage or 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 ft³/s; to the nearest tenth between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures for more than 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Records Available

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

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

Records of Surface-Water Quality

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

In March 1989 the National Water-Quality Laboratory discovered a bias in the turbidimetric method for sulfate analysis, indicating that values below 75 mg/L have a median positive bias of 2 mg/L above the true value for the period between 1982 and 1989. 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 uS/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 (1993) 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, WATSTORE, 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 remarks 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 WATSTORE DATA

The U.S. Geological Survey is the principal Federal water-data agency and, as such, collects and disseminates about 70 percent of the water data currently being used by numerous State, local, private, and other Federal agencies to develop and manage our water resources. As part of the Geological Survey's program of releasing water data to the public, a large-scale computerized system has been developed for the storage and retrieval of water data collected through its activities. The National Water Data Storage and Retrieval System (WATSTORE) was established in 1972 to provide an effective and efficient means for the processing and maintenance of water-data collected through the activities of the U.S. Geological Survey and to facilitate release of the data to the public. A variety of useful products ranging from data tables to complex statistical analyses such as Log Pearson Type III, can be produced using WATSTORE. The system resides on the central computer facilities of the U.S. Geological Survey at its National Center in Reston, Virginia, and consists of related files and data bases.

- * Station Header File - Contains descriptive information on more than 440,000 sites throughout the United States and its territories where the U.S. Geological Survey collects or has collected data.
- * Daily Values File - Contains more than 220 million daily values of stream flows, stages, reservoir contents, water temperatures, specific conductances, sediment concentrations, sediment discharges, and ground-water levels.
- * Peak Flow File - Contains approximately 500,000 maximum (peak) streamflow and gage-height values at surface-water sites.
- * Water Quality File - Contains approximately 2 million analyses of water samples that describe the chemical, physical, biological, and radio-chemical characteristics of both surface and ground water.
- * Ground-Water Site Inventory Data Base - Contains inventory data for more than 900,000 wells, springs, and other sources of ground water. The data includes site location, geohydrologic characteristics, well-construction history, and one-time field measurements such as water temperature.

In 1976, the U.S. Geological Survey opened WATSTORE to the public for direct access. The signing of a Memorandum of Agreement with the Survey is required to obtain direct access to WATSTORE. The system can be accessed either synchronously or asynchronously. The requester will be expected to pay all computer costs he/she incurs. Direct access may be obtained by contacting:

U.S. Geological Survey
National Water Data Exchange
421 USGS National Center
Reston, VA 20192

In addition to data retrieval by direct access to WATSTORE, data are available in various machine-readable formats on magnetic tape or 5-1/4 inch floppy disk. 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's 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.

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°C. In the laboratory these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ± 1.0°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°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded 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°C ± 1.0°C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m³), and periphyton and benthic organisms in grams per square meter (g/m²).

Dry mass refers to the mass of residue present after drying in an oven at 105°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 (ft³/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 (ft³/s)/mi² 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 um 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 (CaCO₃).

Hydrologic Bench-Mark Network is a network of 53 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 the activities of man.

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 groundwater 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 (ug/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, ug/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) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 142 sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

National Trends Network (NTN) is a 150-station network for sampling atmospheric deposition in the United States. The purpose of the network is to determine the variability, both in location and in time, of the composition of atmospheric deposition, which includes snow, rain, dust particles, aerosols, and gases. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP).

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 (m²), 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, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE 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:

<u>Classification</u>	<u>Size (mm)</u>	<u>Method of analysis</u>
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 $\text{mg C}/(\text{m}^2 \cdot \text{time})$ for periphyton and macrophytes and $\text{mg C}/(\text{m}^3 \cdot \text{time})$ 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 $\text{mg O}_2/(\text{m}^2 \cdot \text{time})$ for periphyton and macrophytes and $\text{mg O}_2/(\text{m}^3 \cdot \text{time})$ 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 (ft³/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 Q₁₀) 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 emerged 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 U.S.G.S. 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 planimeted. All areas shown are those for the stage when the planimeted 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 um 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 um 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
<u>Genus</u>	<u>Hexagenia</u>
<u>Species</u>	<u>Hexagenia limbata</u>

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 (calendar 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
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

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

Station name	Station number	Drainage area (sq mi)	Period of record (calendar years)
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
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
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
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

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

Station name	Station number	Drainage area (sq mi)	Period of record (calendar years)
Granite Creek Feeder Conduit near Norrie, CO	09077300	--	1981-83
Fryingpan River near Norrie, CO	09077400	32.2	1963-67
Ivanhoe Creek near Norrie, CO	09077600	9.12	1963-76
Ivanhoe Creek Feeder Canal near Nast, CO	09077605	--	1976-83
Ivanhoe Creek near Nast, CO	09077610	9.43	1976-82
South Fork Fryingpan River Feeder Canal near Norrie, CO	09077750	--	1971-83
South Fork Fryingpan River at Upper Station near Norrie, CO	09077800	11.5	1963-82
South Fork Fryingpan River near Norrie, CO	09077900	17.3	1963-67
Chapman Gulch Feeder Canal near Norrie, CO	09077940	--	1971-83
Chapman Gulch near Nast, CO	09077945	6.00	1973-82
Chapman Gulch near Norrie, CO	09077950	6.38	1966-72
Sawyer Creek Feeder Canal near Norrie, CO	09077960	--	1972-83
Fryingpan River at Norrie, CO	09078000	90.6	1910-17, 1947-83
North Fork Fryingpan River Feeder Canal near Norrie, CO	09078040	--	1980-83
Morman Creek Feeder Canal near Norrie, CO	09078050	--	1979-83
Carter Creek Feeder Canal near Norrie, CO	09078060	--	1980-83
North Fork Fryingpan River above Cunningham Creek near Norrie, CO	09078100	12.0	1963-80
Cunningham Creek Feeder Canal near Norrie, CO	09078140	--	1979-83
Middle Cunningham Creek Feeder Canal near Norrie, CO	09078150	--	1980-83
Cunningham Creek near Norrie, CO	09078200	7.12	1963-80
North Fork Fryingpan River below Cunningham Creek near Norrie, CO	09078300	24.2	1963-68
North Fork Fryingpan River near Norrie, CO	09078500	42.0	1910-17, 1947-82
Lime Creek near Troutville, CO	09078900	4.56	1963-68
Lime Creek at Troutville, CO	09079000	7.76	1950-56
Lime Creek at Thomasville, CO	09079500	35.0	1950-56
Fryingpan River at Thomasville, CO	09080000	173	1915-20
Fryingpan River at Meredith, CO	09080100	191	1910-15, 1966-80
Fryingpan River at Ruedi, CO	09080200	226	1959-64
Rocky Fork Creek near Meredith, CO	09080300	12.3	1968-82
West Sopris Creek near Basalt, CO	09080800	14.4	1963-68
Crystal River at Marble, CO	09081500	74.3	1910-15, 1916-17
Crystal River at Placita, CO	09081550	107	1959-73, 1975-77
Crystal River near Redstone, CO	09082500	229	1935-63
North Thompson Creek near Carbondale, CO	09082800	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
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,

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

Station name	Station number	Drainage area (sq mi)	Period of record (calendar years)
Dry Fork near De Beque, CO	09095400	109	1975-81
Government Highline Canal at 16 Road near Loma, CO	09095526	--	1974-82
Lateral No 48 near Mack, CO	09095528	--	1975-85
Government Highline Canal above Camp 7 Spillway near Mack, CO	090955285	--	1973-81
Camp No 7 Spillway near Mack, CO	09095529	--	1983-85
Government Highline Canal near Mack, CO	09095530	--	1975-82
Plateau Creek near Heiberger, CO	09095800	18.6	1973-82
Plateau Creek at Upper Station near Collbran, CO	09096000	24.1	1958-64
Plateau Creek near Collbran, CO	09096500	80.4	1937-43, 1951-58
Buzzard Creek below Owens Creek near Heiberger, CO	09096800	49.7	1921-80
Buzzard Creek near Collbran, CO	09097500	143	1955-70
Brush Creek near Collbran, CO	09097600	9.57	1921-80
Atkinson Creek near Collbran, CO	09098500	0.85	1955-67
East Fork Big Creek near Collbran, CO	09099000	4.92	1952-55
Big Creek at Upper Station near Collbran, CO	09099500	20.2	1940-41, 1950-55
Big Creek near Collbran, CO	09100000	27.1	1945-56
Cottonwood Creek at Upper Station near Molina, CO	09100500	14.0	1937-44
Cottonwood Creek near Molina, CO	09101000	17.8	1945-57
Bull Creek at Upper Station near Molina, CO	09101500	9.85	1937-43
Coon Creek near Mesa, CO	09104000	9.35	1945-53
Mesa Creek near Mesa, CO	09104500	6.79	1937-43
Colorado River near Palisade, CO	09106000	8,738	1937-60
Kiefer Extension to Grand Valley Canal near Fruita, CO	09106104	--	1901-33
Kiefer Extension to Grand Valley Canal near Loma, CO	09106108	--	1975-85
Lewis Wash near Grand Junction, CO	09106200	4.72	1975-85
Texas Creek at Taylor Park, CO	09107500	40.4	1973-79
Willow Creek at Taylor Park, CO	09108000	--	1929-34, 1988-92
East River near Crested Butte, CO	09110500	90.3	1913-14, 1929-34
Coal Creek near Crested Butte, CO	09111000	8.65	1939-51
Slate River near Crested Butte, CO	09111500	70.1	1941-46
Cement Creek near Crested Butte, CO	09112000	26.1	1940-51
Castle Creek near Baldwin, CO	09113000	20.3	1940-51
Ohio Creek at Baldwin, CO	09113300	47.2	1944-50
Ohio Creek near Baldwin, CO	09113500	121	1958-70
Ohio Creek near Gunnison, CO	09114000	167	1940-50, 1958-71, 1979-81
Tomichi Creek at Sargents, CO	09115500	149	1944-50
Tomichi Creek near Doyleville, CO	09116000	209	1916-22, 1937-72
Tomichi Creek at Parlin, CO	09117000	427	1944-50
Quartz Creek near Ohio City, CO	09118000	106	1944-51, 1963-70
Cochetopa Creel near Parlin, CO	09118500	361	1937-50, 1959-70
Gunnison River at Iola, CO	09120500	2,352	1940-48
Cebolla Creek near Lake City, CO	09121500	25.2	1899, 1903, 1937-51
Cebolla Creek near Powderhorn, CO	09121800	248	1946-54
Cebolla Creek at Powderhorn, CO	09122000	340	1960-63
Soap Creek near Sapinero, CO	09122500	57.4	1937-55
Soap Creek at Sapinero, CO	09123000	86.0	1955-66
Lake Fork below mill Gulch near Lake City, CO	09123400	57.5	1910-14, 1945-52
Lake Fork at Lake City, CO	09123500	115	1981-86
Henson Creek at Lake City, CO	09124000	83.1	1917-24, 1928-30, 1931-37
Gunnison River below Blue Mesa Dam, CO	09124700	3,453	1917-19, 1928-30, 1931-37
Curecanti Creek near Sapinero, CO	09125000	35.0	1963-68
Cimarron River at Cimarron, CO	09126500	209	1945-72
Cimarron River below Squaw Creek at Cimarron, CO	09127000	229	1902-05, 1962-67
Crystal Creek near Maher, CO	09127500	42.2	1942-52
Gunnison River above Gunnison Tunnel, CO	09127998	3,965	1916-19, 1945-54, 1960-69
Gunnison Tunnel near Montrose, CO	09127999	3,965	1905-65
Smith Fork near Crawford, CO	09128500	42.8	1910-65
Smith Fork at Crawford, CO	09129000	63.1	1935-94
Iron Creek near Crawford, CO	09129500	71.5	1954-60
			1947-52

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

Station name	Station number	Drainage area (sq mi)	Period of record (calendar years)
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
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
Beaver Creek near Ridgway, CO	09146550	12.2	1960-70
Pleasant Valley Creek near Noel, CO	09146600	8.17	1955-67
Cow Creek near Ridgway, CO	09147100	45.4	1955-73
Spring Creek near Beaver Hill, CO	09149400	41.6	1977-81
Spring Creek near Montrose, CO	09149420	76.6	1977-81
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
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	1971-7

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

Station name	Station number	Drainage area (sq mi)	Period of record (calendar years)
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
San Miguel River at Uravan, CO	09177000	1,499	1954-62, 1973-94
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
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
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
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 above Clark	09240900	122	1987-93
Elk River at Clark	09241000	216	1910-22, 1930-91
Fish Creek near Milner, CO	09244100	216	1955-73
Grassy Creek near Mount Harris, CO	09244300	25.8	1958-66
Yampa River near Hayden, CO	09244400	1,430	1965-72
Gibraltar 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
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
East Fork of Williams Fork near Willow Creek, CO	09248500	96.0	1901-06, 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,

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

Station name	Station number	Drainage area (sq mi)	Period of record (calendar years)
Morapos Creek near Hamilton, CO	09249700	13.7	1909-27
Milk Creek near Thornburgh, CO	09250000	65.0	1965-67
Good Spring Creek at Axial, CO	09250400	40.0	1952-86
Wilson Creek above Taylor Creek near Axial, CO	09250507	20.0	1975-78
Taylor Creek at mouth near Axial, CO	09250510	7.22	1980-92
Jubb Creek near Axial, CO	09250610	7.53	1975-92
Morgan Gulch near Axial, CO	09250700	25.6	1975-81
Middle Fork Little Snake River near Battle Creek, CO	09251500	120	1980-81
South Fork Little Snake River near Battle Creek, CO	09252500	46.0	1912-22
Battle Creek near Slater, CO	09253500	285	1912-20
Slater Fork at Baxter Ranch near Slater, CO	09254500	80.0	1942-51
Willow Creek near Dixon, WY	09258000	24.0	1911-20, 1922
Little Snake River above Lily, CO	09259950	--	1953-93
Sand Wash near Sunbeam, CO	09259990	239	1950-69
Yampa River at Deerlodge Park, CO	09260050	7,660	1987-91
North Fork White River below Trappers Lake, CO	09302400	19.5	1982-94
North Fork White River above Ripple Creek near Trappers Lake, CO	09302420	62.5	1956-65
Lost Creek near Buford, CO	09302450	21.5	1965-73
Marvine Creek near Buford, CO	09302500	59.7	1964-89
North Fork White River near Buford, CO	09302800	220	1903-06, 1973-84
Patterson Creek near Budges Resort, CO	09303340	11.2	1903-06, 1956-72
Wagonwheel Creek at Budges Resort, CO	09303320	7.36	1976-77
South Fork White River near Buford, CO	09303500	157	1975-89
Big Beaver Creek near Buford, CO	09304100	34.1	1903-06, 1910-15, 1942-47
Miller Creek near Meeker, CO	09304150	57.6	1967-92
Coal Creek near Meeker, CO	09304300	25.1	1955-64
White River at Meeker, CO	09304600	808	1970-79
Piceance Creek at Rio Blanco, CO	09305500	8.97	1957-68
Middle Fork Stewart Gulch near Rio Blanco, CO	09306015	24.0	1978-85
Stewart Gulch above West Fork near Rio Blanco, CO	09306022	44.0	1952-57
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	1976-85
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
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
Wolf Creek at Wolf Creek Camp Ground near Pagosa Springs, CO	09341300	18.0	1984-87
Windy Pass Creek near Pagosa Springs, CO	09341350	1.41	1984-87
West Fork San Juan River near Pagosa Springs, CO	09341500	87.9	1935-60, 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

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

Station name	Station number	Drainage area (sq mi)	Period of record (calendar years)
Little Navajo River at Chromo, CO	09345500	21.9	1935-52
Middle Fork Piedra River near Pagosa Springs, CO	09347200	32.2	1969-75
Middle Fork Piedra River near Dyke, CO	09347205	34.1	1978-84
Piedra River at Bridge Ranger Station near Pagosa Springs, CO	09347500	82.3	1936-41, 1946-54
Williams Creek near Bridge Ranger Station near Pagosa Springs, CO	09348500	43.7	1936-41, 1946-49
Weminuche Creek near Bridge Ranger Station near Pagosa Springs, CO	09349000	53.4	1936-41, 1946-49
Piedra River near Piedra, CO	09349500	371	1911-12, 1938-73
Los Pinos River near Bayfield, CO	09353500	270	1927-86
Animas River at Howardsville, CO	09357500	55.9	1935-82
Cement Creek near Silverton, CO	09358500	13.5	1935-37, 1946-49
Mineral Creek above Silverton, CO	09358900	11.0	1968-75
Mineral Creek near Silverton, CO	09359000	43.9	1935-49
Lime Creek near Silverton, CO	09359100	33.9	1956-61
Animas River above Tacoma, CO	09359500	348	1945-56
Hermosa Creek near Hermosa, CO	09361000	172	1911, 1912-14, 1919-28, 1939-80
Falls Creek near Durango, CO	09361200	7.18	1959-65
Junction Creek near Durango, CO	09361400	26.3	1959-65
Lightner Creek near Durango, CO	09362000	66.0	1927-49
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
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
Blue River below Green Mountain Reservoir, CO	09057500	599	Temp., S.C.	1986-87
Rock Creek at Crater, CO	09060550	72.6	Temp., S.C.	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 nr 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 nr 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

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record (water years)
Foidel Creek near Oak Creek, CO	09243800	8.61	Temp., S.C.	1976-83, 1986-88
Foidel Creek at Mouth near Oak Creek, CO	09243900	17.5	Temp., S.C. Sed.	1976-81 1978-81
Sage Creek above Sage Creek Res. near Hayden, CO	09244415	4.17	Temp., S.C.	1981-83
Watering Trough Gulch near Hayden, CO	09244460	2.65	Temp., S.C.	1979-81
Hubberson Gulch near Hayden, CO	09244464	8.08	Temp., S.C.	1979-81
Stokes Gulch near Hayden, CO	09244464	13.6	Temp., S.C., Sed.	1978-81
Good Spring Creek at Axial, CO	09250400	40.0	Temp. S.C.	1975-78 1974-78
Wilson Creek above Taylor Creek near Axial, CO	09250507	20.0	Temp., S.C., Sed.	1980-81
Taylor Creek at Mouth near Axial, CO	09250507	7.22	Temp., S.C.	1976-81
Wilson Creek near Axial, CO	09250600	27.4	Temp. S.C.	1975-80 1974-80
Jubb Creek near Axial, CO	09250610	7.53	Sed. Temp., S.C.	1976-80 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
Little Snake River near Lily, CO	09260000	3,730	Sed. Temp., S.C.	1958-64 1975-85
Yampa River at Deerlodge Park, CO	09260050	7,660	Sed.	1958-64
White River above Coal Creek, near Meeker, CO	09304200	648	Temp., S.C.	1977-82
White River near Meeker, CO	09304500	755	Temp., S.C.	1978-84
White River at Meeker, CO	09304600	808	Temp., S.C.	1973-74
White River below Meeker, CO	09304800	1,024	Temp., S.C.	1978-85
Piceance Creek below Rio Blanco, CO	09306007	177	Temp., S.C. Sed	1974-85
Middle Fork Stewart Gulch near Rio Blanco, CO	09306015	24.0	Temp., S.C.	1976 1981
Stewart Gulch above West Fork near Rio Blanco, CO	09306022	44.0	Sed. Temp., S.C., Sed.	1976 1974-82
West Fork Stewart Gulch near Rio Blanco, CO	09306025	14.2	Temp. S.C.	1974-76, 1980-81 1975-76, 1980-81
W.F. Stewart Gulch at Mouth near Rio Blanco, CO	09306028	15.7	Sed. Temp. S.C.	1974-76 1980-81 1977, 1980-81
Sorghum Gulch near Rio Blanco, CO	09306033	1.22	Sed. Temp., S.C.	1975-76, 1980 1975-76
Sorghum Gulch at mouth near Rio Blanco, CO	09306036	3.62	Temp., S.C. Sed.	1976, 1978, 1980 1975-77, 1982
Cottonwood Gulch near Rio Blanco, CO	09306039	1.20	Temp., S.C. Sed.	1976-78, 1980 1974-77, 1980
Piceance Creek Tributary near Rio Blanco, CO	09306042	1.06	Temp., S.C. Sed.	1974-86 1974-82
Piceance Cr bl Gardenhire Gulch nr Rio Blanco, CO	09306045	255	Temp., S.C.	1980-81
Scandard Gulch near Rio Blanco, CO	09306050	6.61	Temp., S.C. Sed.	1980 1975-76
Scandard Gulch at Mouth near Rio Blanco, CO	09306052	7.97	Temp., S.C. Sed.	1976, 1978, 1980 1974-76, 1980
Willow Creek near Rio Blanco, CO	09306058	48.4	Temp., S.C. pH, D.O. Sed.	1974-82 1976-82 1974-82
Piceance Creek above Hunter Cr nr Rio Blanco, CO	09306061	309	Temp., S.C., Sed. pH, D.O.	1974-85 1974-84
Black Sulphur Creek near Rio Blanco, CO	09306175	103	Temp., S.C., Sed.	1975-81
Piceance Creek below Ryan Gulch nr Rio Blanco, CO	09306200	506	Sed.	1972-83

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--Continued

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 nr Cortez, CO	09370820	320	Temp., S.C.	1979-82
Mancos River near Towaoc, CO	09371000	526	Sed.	1961
Hartman Craw at Cortez, CO	09371400	34.0	Temp., S.C.	1978-81
mcElmo Creek near Cortez	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, Books and Open-File Reports Section, Federal Center, Box 25425, 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."

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COLORADO RIVER MAIN STEM

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

LOCATION.--Lat 40°19'33", long 105°51'22", in NE¹/₄NW¹/₄ 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 mi².

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.--Estimated daily discharges: Nov. 17 to Apr. 1, Apr. 9-11, 14, 15, 17, 18, Apr. 20 to May 19, and June 13-20. Records fair 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	13	12	7.0	7.4	9.2	8.7	15	156	490	99	22
2	17	12	12	7.1	7.4	9.2	8.4	16	204	506	90	21
3	18	12	11	7.1	7.4	9.1	8.6	17	244	497	83	21
4	17	11	10	7.2	7.5	9.1	9.9	16	279	468	78	24
5	17	9.7	10	7.3	7.5	9.0	12	11	322	434	73	27
6	21	12	9.6	7.3	7.6	8.9	16	11	397	463	67	35
7	21	12	9.2	7.3	7.7	8.7	16	12	395	514	63	24
8	19	11	8.6	7.3	7.7	8.8	15	13	403	544	60	27
9	18	11	8.2	7.4	7.8	9.0	15	14	442	558	59	28
10	19	13	7.7	7.4	7.8	9.0	15	14	703	595	57	25
11	19	14	7.4	7.5	7.9	9.1	15	25	718	629	54	25
12	18	11	7.2	7.6	8.0	9.2	14	30	698	625	53	22
13	17	10	7.0	7.4	8.1	9.3	15	30	700	608	51	21
14	16	10	6.8	7.5	8.4	9.3	15	37	690	634	47	20
15	17	8.0	6.6	7.5	8.8	9.3	15	62	700	548	44	24
16	16	9.8	6.6	7.5	8.8	9.2	16	66	760	489	40	26
17	15	10	6.5	7.5	8.9	9.1	15	84	789	456	38	26
18	16	11	6.5	7.5	8.9	9.0	14	88	789	445	36	26
19	20	11	6.4	7.6	9.0	9.0	15	90	760	427	35	33
20	17	12	6.3	7.7	9.0	9.0	12	113	690	388	35	46
21	16	12	6.1	7.9	9.1	8.8	13	120	670	310	33	44
22	16	11	6.2	7.8	9.1	8.7	13	153	700	280	44	36
23	15	11	6.2	7.6	9.1	8.6	12	161	671	262	43	33
24	14	12	6.3	7.4	9.2	8.6	11	129	606	230	40	31
25	13	12	6.3	7.3	9.2	8.5	13	116	549	192	38	29
26	13	12	6.3	7.3	9.4	8.5	11	104	543	182	33	31
27	14	11	6.4	7.3	9.2	8.5	12	97	557	161	30	30
28	13	11	6.5	7.2	9.2	8.4	12	88	562	127	30	31
29	13	12	6.6	7.3	---	8.4	12	89	566	118	28	41
30	12	12	6.7	7.4	---	8.6	13	101	502	113	25	42
31	12	---	6.8	7.4	---	8.6	---	114	---	107	23	---
TOTAL	506	339.5	236.0	229.6	235.1	275.7	392.6	2036	16765	12400	1529	871
MEAN	16.3	11.3	7.61	7.41	8.40	8.89	13.1	65.7	559	400	49.3	29.0
MAX	21	14	12	7.9	9.4	9.3	16	161	789	634	99	46
MIN	12	8.0	6.1	7.0	7.4	8.4	8.4	11	156	107	23	20
AC-FT	1000	673	468	455	466	547	779	4040	33250	24600	3030	1730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1995, BY WATER YEAR (WY)

	MEAN	23.4	14.8	9.66	7.74	7.01	7.40	27.5	163	315	116	33.2	26.0
MAX	83.7	37.2	17.4	12.8	10.6	11.9	74.5	315	559	425	104	75.5	
(WY)	1962	1962	1962	1985	1984	1972	1962	1958	1995	1983	1983	1961	
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1953 - 1995

ANNUAL TOTAL	18054.3	35815.5	
ANNUAL MEAN	49.5	98.1	62.9
HIGHEST ANNUAL MEAN			109
LOWEST ANNUAL MEAN			26.3
HIGHEST DAILY MEAN	373	789	916
LOWEST DAILY MEAN	6.1	6.1	3.0
ANNUAL SEVEN-DAY MINIMUM	6.2	6.2	3.5
INSTANTANEOUS PEAK FLOW		819	976
INSTANTANEOUS PEAK STAGE		7.32	7.19
ANNUAL RUNOFF (AC-FT)	35810	71040	45540
10 PERCENT EXCEEDS	170	459	188
50 PERCENT EXCEEDS	15	14	17
90 PERCENT EXCEEDS	8.6	7.4	6.4

a-Also occurred Jun 18.

b-Maximum discharge may have been greater during period of estimated record, Jun 13-20.

c-Maximum gage height, 7.32 ft, Jun 10, 1995, but may have been higher during period of estimated record, Jun 13-20, 1995.

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1994 to September 1995.

REMARKS.--Upper Colorado River Basin National Water Quality Assessment station (NAWQA).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
JAN 26...	1300	7.2	82	7.1	0.0	9.4	35	10	2.5	2.2	0.2	0.8
FEB 23...	1420	9.0	80	7.1	0.0	9.2	34	9.5	2.4	2.0	0.2	0.8
MAR 17...	1200	9.2	78	7.1	0.0	9.4	33	9.3	2.3	2.0	0.2	1.0
APR 07...	0920	16	76	7.3	0.0	9.5	30	8.4	2.1	1.9	0.2	1.1
JUN 07...	1610	373	48	7.5	9.0	8.3	19	5.5	1.3	1.3	0.1	0.7
JUN 17...	1725	748	40	6.8	7.0	8.4	16	4.5	1.1	1.1	0.1	0.7
JUL 20...	0800	403	44	7.4	5.0	8.9	17	4.9	1.2	0.90	0.1	0.5
AUG 18...	1000	39	64	7.7	10.5	8.0	26	7.4	1.8	1.4	0.1	0.8
SEP 13...	1030	22	72	7.6	10.0	8.3	29	8.5	2.0	1.6	0.1	0.8

DATE	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)
JAN 26...	36	29	6.4	0.2	0.3	9.7	54	50	0.07	1.05	<0.01
FEB 23...	33	27	6.1	0.1	0.3	9.4	51	48	0.07	1.24	<0.01
MAR 17...	35	29	5.6	0.3	0.2	9.0	53	48	0.07	1.32	<0.01
APR 07...	35	28	5.9	0.3	0.2	8.3	49	46	0.07	2.08	<0.01
JUN 07...	19	16	3.6	0.2	0.3	6.8	39	29	0.05	39.3	<0.01
JUN 17...	16	13	3.3	0.8	0.2	5.8	34	26	0.05	77.4	<0.01
JUL 20...	17	14	2.8	0.2	0.2	5.2	26	25	0.03	26.2	<0.01
AUG 18...	27	23	4.9	0.2	0.3	6.9	38	37	0.05	4.02	<0.01
SEP 13...	32	26	6.7	0.3	0.2	6.6	50	43	0.07	2.97	<0.01

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
JAN 26...	0.08	0.020	<0.2	<0.2	0.01	<0.01	<0.01	1.3	0.1	230	39
FEB 23...	0.10	0.020	<0.2	<0.2	<0.01	<0.01	<0.01	1.3	0.2	200	33
MAR 17...	0.10	0.020	<0.2	<0.2	<0.01	<0.01	<0.01	1.3	0.2	220	40
APR 07...	0.07	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	1.8	0.3	370	44
JUN 07...	<0.05	0.020	<0.2	<0.2	<0.01	<0.01	<0.01	4.8	0.4	140	11
JUN 17...	0.05	0.030	0.50	<0.2	0.11	0.02	<0.01	4.8	0.4	120	11
JUL 20...	0.07	0.020	<0.2	<0.2	<0.01	<0.01	<0.01	2.5	0.3	100	10
AUG 18...	<0.05	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	1.5	0.1	190	12
SEP 13...	<0.05	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	1.5	0.1	210	18

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ANTI- MONY, DIS- SOLVED (UG/L AS SB)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)
SEP 13...	7	<1	<1	8	<1	<1	<1	<1	<1

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
SEP 13...	<1	18	<1	<1	<1	<1	1	<1

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
JAN 26...	1245	7.2	82	0.0	MAY 19...	0920	88	62	2.0
FEB 23...	1400	9.0	80	0.0	JUN 08...	0745	400	45	2.5
MAR 17...	1205	9.2	77	0.0	JUL 17...	1758	789	40	7.0
APR 20...	1135	13	76	0.5	AUG 19...	1945	425	44	5.0
					AUG 18...	0950	39	64	10.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
JAN 26...	1300	7.2	1	0.02	JUN 07...	1610	373	26	26
FEB 23...	1420	9.0	1	0.02	JUL 20...	0800	373	9	9.1
MAR 17...	1200	9.2	0	0.0	AUG 18...	1000	39	2	0.21
APR 07...	0920	16	5	0.21					

GRAND LAKE OUTLET BASIN

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

LOCATION.--Lat 40°19'40", long 105°34'39", in SW¹/4NW¹/4 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 Cippolletti 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. 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.--49 years, 285 ft³/s; 206,500 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	390	462	392	519	438	418	2.1	164	2.0	2.0	542	322
2	390	457	389	518	424	420	1.6	411	2.1	2.0	544	318
3	460	437	400	513	505	422	2.2	409	2.5	2.0	545	283
4	413	424	405	514	523	420	2.2	393	1.8	2.0	546	290
5	406	420	420	500	522	421	2.2	404	2.0	125	547	292
6	420	404	429	488	523	412	2.2	401	7.0	203	546	292
7	444	389	438	489	416	400	2.2	402	2.0	63	544	264
8	391	389	438	488	360	344	2.2	403	4.0	.00	515	257
9	397	483	435	502	488	403	2.4	403	2.0	2.6	547	261
10	375	504	383	504	503	488	2.4	471	2.5	2.1	544	262
11	406	512	401	503	489	294	2.4	509	1.6	5.0	435	261
12	401	499	423	503	440	401	2.4	507	2.0	434	384	330
13	404	493	416	503	399	415	2.4	347	10	502	347	272
14	413	495	411	507	399	417	2.4	346	2.0	540	384	388
15	405	504	412	506	432	400	2.4	351	2.0	540	380	187
16	407	505	427	510	437	418	2.4	274	2.0	544	394	100
17	417	479	427	511	435	418	2.2	274	2.0	546	411	99
18	415	404	427	511	439	408	1.9	266	2.0	541	437	170
19	408	408	507	505	440	407	1.8	236	2.0	544	430	102
20	369	415	548	502	436	408	1.6	237	2.0	545	419	101
21	371	416	547	504	427	395	56	193	2.0	541	403	48
22	392	415	543	506	420	399	203	157	2.0	542	401	33
23	390	424	517	494	420	403	80	61	2.0	542	324	42
24	396	424	508	504	425	406	118	3.7	2.0	543	335	37
25	456	423	499	498	428	410	222	94	2.0	540	325	38
26	454	189	499	506	425	399	197	345	2.0	545	296	127
27	444	211	493	512	427	242	201	52	2.0	546	339	189
28	415	414	505	513	426	298	4.0	225	2.0	544	394	172
29	417	476	511	506	---	491	6.0	218	2.0	544	437	72
30	419	435	516	492	---	472	5.9	1.9	2.0	544	406	67
31	425	---	516	487	---	338	---	2.5	---	543	392	---
TOTAL	12710	12910	14182	15618	12446	12387	1136.5	8561.1	75.5	11118.70	13493	5676
MEAN	410	430	457	504	444	400	37.9	276	2.52	359	435	189
MAX	460	512	548	519	523	491	222	509	10	546	547	388
MIN	369	189	383	487	360	242	1.6	1.9	1.6	.00	296	33
AC-FT	25210	25610	28130	30980	24690	24570	2250	16980	150	22050	26760	11260
CAL YR 1994	TOTAL	129186.3	MEAN	354	MAX	562	MIN	2.2	AC-FT	256200		
WTR YR 1995	TOTAL	120313.80	MEAN	330	MAX	548	MIN	.00	AC-FT	238600		

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 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
NOV 30...	0840	370	55	7.8	3.0	7.7	22	6.7	1.2	2.1
JAN 30...	1408	494	62	8.2	2.0	8.7	25	7.6	1.4	2.3
MAR 28...	1636	344	60	7.4	3.0	8.4	24	7.3	1.3	2.2
MAY 16...	0819	346	59	--	4.0	8.3	22	6.8	1.2	2.2
JUL 24...	1444	546	21	7.9	9.5	8.8	6	2.0	0.35	0.9
SEP 18...	1411	402	43	8.4	15.5	5.7	17	5.1	0.95	1.6
DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
NOV 30...	0.2	0.7	24	3.3	0.4	0.1	6.1	40	35	0.05
JAN 30...	0.2	0.8	27	2.8	0.8	0.1	6.4	48	39	0.06
MAR 28...	0.2	0.8	26	2.9	0.4	0.1	6.7	42	38	0.06
MAY 16...	0.2	0.7	24	2.0	0.5	0.1	6.2	42	35	0.06
JUL 24...	0.2	0.3	7.6	1.2	<0.1	<0.1	3.6	16	--	--
SEP 18...	0.2	0.5	19	2.2	0.3	<0.1	4.9	22	27	0.03
DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	
NOV 30...	40.0	<0.01	0.06	<0.02	--	<0.20	<0.01	<0.01	<0.01	
JAN 30...	64.0	<0.01	0.09	<0.02	0.20	0.20	0.02	<0.01	<0.01	
MAR 28...	39.0	<0.01	0.08	<0.02	--	<0.20	<0.01	<0.01	<0.01	
MAY 16...	39.2	<0.01	0.10	<0.02	--	<0.20	<0.01	<0.01	<0.01	
JUL 24...	--	<0.01	<0.05	0.02	--	<0.20	<0.01	<0.01	<0.01	
SEP 18...	23.9	<0.01	<0.05	<0.02	0.30	0.30	<0.01	<0.01	<0.01	

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
NOV 30...	0840	6	<0.5	20	<1	<5	<3	<10	11
JAN 30...	1408	7	<0.5	<10	<1	<5	<3	<10	7
MAR 28...	1636	7	<0.5	<10	<1	<5	5	<10	11
MAY 16...	0819	6	<0.5	<10	<1	<5	<3	<10	37
JUL 24...	1444	3	<0.5	<10	<1	<5	<3	<10	32
SEP 18...	1411	5	<0.5	10	<1	<5	<3	<10	14

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 30...	<10	<4	<1	<10	<10	1	38	<6	<3
JAN 30...	<10	<4	<1	<10	<10	<1	49	<6	4
MAR 28...	<10	<4	<1	<10	<10	<1	44	<6	<3
MAY 16...	<10	<4	2	<10	<10	<1	41	<6	5
JUL 24...	<10	<4	2	<10	<10	<1	10	<6	5
SEP 18...	<10	<4	<1	<10	<10	<1	28	<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 mi².

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, 17,480 acre-ft, Dec. 23, elevation, 8,366.86 ft; minimum, 16,200 acre-ft, June 18, elevation, 8,365.99 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	8,366.71	17,280	-
Oct. 31.	8,366.75	17,330	+50
Nov. 30.	8,366.76	17,320	-10
Dec. 31.	8,366.73	17,280	-40
CAL YR 1994.			-20
Jan. 31.	8,366.72	17,270	-10
Feb. 28.	8,366.79	17,380	+110
Mar. 31.	8,366.64	17,140	-240
Apr. 30.	8,366.63	17,150	+10
May 31.	8,366.43	16,790	-360
June 30.	8,366.66	17,240	+450
July 31.	8,366.69	17,270	+30
Aug. 31.	8,366.70	17,260	-10
Sept. 30.	8,366.70	17,300	+40
WTR YR 1995.			+20

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 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT						
14...	1000	0.01	57	7.2	8.0	4.7
14...	1001	5.00	57	7.2	8.0	4.6
14...	1002	10.0	57	7.2	8.0	4.6
14...	1003	15.0	57	7.2	8.0	4.6
14...	1004	20.0	57	7.2	8.0	4.5
14...	1005	25.0	57	7.2	8.0	4.6
MAY						
31...	0940	0.10	56	8.1	9.5	8.5
31...	0941	5.00	56	8.1	9.5	8.5
31...	0942	10.0	56	8.1	9.0	8.2
31...	0943	15.0	56	8.0	8.0	7.6
31...	0944	20.0	55	7.9	7.5	7.3
31...	0945	25.0	55	7.9	7.0	6.5
31...	0946	28.0	55	7.8	7.0	5.4
JUN						
30...	0830	0.10	31	7.7	10.5	8.0
30...	0831	5.00	31	7.7	10.5	7.8
30...	0832	10.0	31	7.6	10.5	7.8
30...	0833	15.0	31	7.6	10.0	7.8
30...	0834	20.0	31	7.5	9.5	7.6
30...	0835	25.0	32	7.5	8.5	7.5
30...	0836	30.0	32	7.4	8.5	7.5
JUL						
18...	1510	0.10	27	7.7	17.5	7.7
18...	1511	5.00	26	7.7	15.5	8.2
18...	1512	10.0	27	7.6	13.5	8.0
18...	1513	15.0	30	7.4	11.5	7.7
18...	1514	20.0	30	7.4	10.5	7.7
18...	1515	25.0	30	7.3	9.5	6.5
AUG						
28...	1400	0.10	52	8.0	19.0	7.1
28...	1401	5.00	52	8.0	18.5	7.1
28...	1402	10.0	53	7.7	14.0	6.6
28...	1403	15.0	54	7.4	12.5	5.8
28...	1404	20.0	54	7.3	12.0	5.7
28...	1405	25.0	54	7.2	11.5	5.5
28...	1406	28.0	55	7.1	11.5	3.4
SEP						
29...	0825	0.10	57	7.7	9.5	7.1
29...	0826	5.00	56	7.7	9.5	7.0
29...	0827	10.0	56	7.7	9.5	7.0
29...	0828	15.0	56	7.7	9.5	6.9
29...	0829	20.0	56	7.6	9.5	6.1
29...	0830	25.0	56	7.5	9.5	5.6

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
OCT										
14...	1015	0.1	57	7.2	8.0	67.0	4.7	<1	24	7.3
14...	1030	25	57	7.2	8.0	--	4.6	--	23	7.2
MAY										
31...	1000	0.1	56	8.1	9.5	72.0	8.5	K2	23	7.0
31...	1020	28	55	7.8	7.0	--	5.4	--	24	7.0
JUN										
30...	0900	0.1	31	7.7	10.5	68.0	8.0	<1	13	4.0
30...	0915	30	32	7.4	8.5	--	7.5	--	14	4.1
JUL										
18...	1600	0.1	27	7.7	17.5	78.0	7.7	K10	12	3.6
18...	1615	25	30	7.3	9.5	--	6.5	--	14	4.2
AUG										
28...	1415	0.1	52	8.0	19.0	84.0	7.1	K1	20	6.2
28...	1430	28	55	7.1	11.5	--	3.4	--	21	6.5
SEP										
29...	0900	0.1	57	7.7	9.5	76.0	7.1	K1	25	7.5
29...	0915	25	56	7.5	9.5	--	5.6	--	25	7.5

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT										
14...	1.3	2.2	0.2	0.7	27	3.1	0.4	<0.1	7.3	46
14...	1.3	2.2	0.2	0.7	27	3.1	0.4	0.1	7.4	42
MAY										
31...	1.4	2.1	0.2	0.9	25	2.9	0.5	0.2	6.6	40
31...	1.5	2.1	0.2	1.0	24	3.1	0.4	0.2	7.5	40
JUN										
30...	0.82	1.3	0.2	0.6	15	2.3	0.2	0.1	4.7	28
30...	0.86	1.2	0.1	0.5	14	2.4	0.2	0.1	5.2	32
JUL										
18...	0.71	1.1	0.1	0.4	12	1.8	0.2	0.1	4.4	30
18...	0.88	1.1	0.1	0.5	14	2.3	0.2	0.2	5.4	30
AUG										
28...	1.2	1.7	0.2	0.6	23	3.1	0.3	0.1	6.1	8
28...	1.2	1.9	0.2	0.6	25	3.0	0.4	0.1	6.3	28
SEP										
29...	1.4	2.1	0.2	0.7	25	2.5	0.4	0.1	7.1	40
29...	1.4	2.2	0.2	0.9	25	2.7	0.4	0.1	7.2	38

K-Based on non-ideal counts.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT										
14...	39	<0.01	0.13	<0.02	<0.20	<0.01	<0.01	<0.01	5.9	0.4
14...	39	<0.01	0.09	<0.02	<0.20	<0.01	<0.01	<0.01	--	--
MAY										
31...	37	<0.01	<0.05	<0.02	<0.20	0.01	<0.01	<0.01	3.2	0.2
31...	38	<0.01	<0.05	0.02	0.20	0.01	<0.01	<0.01	--	--
JUN										
30...	23	<0.01	<0.05	<0.02	<0.20	<0.01	<0.01	<0.01	3.3	0.2
30...	23	<0.01	<0.05	0.02	<0.20	0.02	<0.01	<0.01	--	--
JUL										
18...	20	<0.01	<0.05	<0.02	<0.20	<0.01	0.02	<0.01	0.6	<0.1
18...	23	<0.01	<0.05	0.02	<0.20	<0.01	<0.01	<0.01	--	--
AUG										
28...	33	<0.01	<0.05	<0.02	0.20	0.02	<0.01	<0.01	6.8	<0.1
28...	35	<0.01	<0.05	<0.02	<0.20	0.02	<0.01	<0.01	--	--
SEP										
29...	37	<0.01	<0.05	<0.02	0.40	<0.01	<0.01	<0.01	14.0	0.2
29...	37	<0.01	<0.05	<0.02	0.30	0.01	<0.01	<0.01	--	--

DATE	TIME	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
OCT									
14...	1015		7	<0.5	<10	<1	<5	<3	7
14...	1030		7	<0.5	10	<1	<5	<3	8
MAY									
31...	1000		8	<0.5	<10	<1	<5	<3	190
31...	1020		8	<0.5	<10	<1	<5	<3	260
JUN									
30...	0900		5	<0.5	<10	<1	<5	<3	54
30...	0915		5	<0.5	<10	<1	<5	<3	85
JUL									
18...	1600		5	<0.5	10	<1	<5	<3	47
18...	1615		6	<0.5	<10	3.0	<5	<3	120
AUG									
28...	1415		6	<0.5	<10	<1	<5	<3	78
28...	1430		7	<0.5	<10	<1	<5	<3	44
SEP									
29...	0900		6	<0.5	10	<1	<5	<3	45
29...	0915		7	<0.5	<10	<1	<5	<3	46

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT									
14...	<10	<4	2	<10	<10	<0.2	46	<6	4
14...	<10	<4	3	<10	<10	<0.2	47	<6	3
MAY									
31...	<10	<4	2	<10	<10	<0.2	40	<6	<3
31...	<10	<4	16	<10	<10	<0.2	40	<6	<3
JUN									
30...	<10	<4	4	<10	<10	<0.2	22	<6	<3
30...	10	<4	19	<10	<10	<0.2	20	<6	<3
JUL									
18...	<10	<4	<1	<10	<10	<0.2	20	<6	<3
18...	<10	5	27	<10	<10	<0.2	22	<6	<3
AUG									
28...	<10	<4	3	<10	<10	<0.2	35	<6	<3
28...	<10	<4	3	<10	<10	<0.2	39	<6	<3
SEP									
29...	<10	<4	<1	10	<10	<0.2	44	<6	<3
29...	<10	<4	1	<10	<10	<0.2	44	<6	<3

09018300 GRANBY PUMP CANAL NEAR GRAND LAKE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°12'25", long 105°50'56", in SW¹/4NE¹/4 sec.24, T. 3 N., R.76 W., Grand County, Hydrologic Unit 14010001, at road crossing at south end of Shadow Mountain Lake, 4 mi southwest of Grand Lake, and 13.5 mi northeast of Granby.

PERIOD OF RECORD.--September 1970 to September 1975, March 1978 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
OCT 05...	1745	716	61	7.0	9.0	3.5	23	7.1	1.3	2.2
NOV 07...	1645	348	60	7.4	7.5	7.6	24	7.4	1.3	2.3
DEC 19...	1700	678	60	7.9	3.0	8.2	24	7.4	1.3	2.2
FEB 06...	1530	345	66	7.3	3.0	7.4	25	7.8	1.4	2.6

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
OCT 05...	0.2	0.7	26	3.0	0.4	0.1	6.9	38	38
NOV 07...	0.2	0.7	26	3.5	0.6	0.1	6.4	38	38
DEC 19...	0.2	0.8	27	2.8	0.4	<0.1	6.3	44	38
FEB 06...	0.2	0.8	28	2.7	0.5	0.1	6.5	44	40

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT 05...	0.05	73.5	<0.01	0.20	0.12	<0.02	0.02	0.01	<0.01
NOV 07...	0.05	35.7	<0.01	<0.20	0.05	0.02	<0.01	<0.01	<0.01
DEC 19...	0.06	80.5	<0.01	<0.20	0.09	<0.02	0.01	<0.01	<0.01
FEB 06...	0.06	41.0	<0.01	0.20	0.12	<0.02	<0.01	<0.01	<0.01

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
OCT 05...	8	<0.5	<1	<5	<3	<10	13	<10
NOV 07...	8	<0.5	--	--	<3	<10	14	<10
DEC 19...	7	<0.5	<1	<5	<3	<10	<3	10
FEB 06...	8	<0.5	<1	<5	<3	<10	15	<10
DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 05...	4	6	<10	<10	2	46	<6	<3
NOV 07...	--	2	10	--	--	45	<6	--
DEC 19...	<4	1	<10	<10	<1	45	<6	<3
FEB 06...	<4	2	<10	<10	<1	46	<6	4

09018500 LAKE GRANBY NEAR GRANBY, CO

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

DRAINAGE AREA.--312 mi².

RESERVOIR ELEVATIONS AND CONTENTS RECORDS

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

REVISED RECORDS.--WSP 2124: Drainage area.

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

REMARKS.--Lake is formed by earthfill dam and dikes. Regulation began Sept. 13, 1949, and usable storage began June 14, 1950, while dam was under construction. Usable capacity, 465,600 acre-ft, between elevations 8,186.00 ft, trash rack sill at outlet, and 8,280.00 ft, top of radial spillway gates. Dead storage, 74,190 acre-ft. Figures given represent usable contents. Lake is used to store water for pumping to Shadow Mountain Lake for transmountain diversion through Alva B. Adams tunnel for, power and irrigation in South Platte River basin.

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, 464,100 acre-ft, July 22, 29, elevation, 8,279.80 ft; minimum, 195,000 acre ft, Mar. 31, Apr. 1-2, elevation, 8,236.56 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	8,261.58	339,500	-
Oct. 31.	8,257.97	316,800	-22,700
Nov. 30.	8,254.38	294,900	-21,900
Dec. 31.	8,249.92	268,500	-26,400
CAL YR 1994.			-60,000
Jan. 31.	8,244.82	239,400	-29,100
Feb. 28.	8,240.67	216,600	-22,800
Mar. 31.	8,236.56	195,000	-21,600
Apr. 30.	8,237.64	200,600	+5,600
May 31.	8,243.28	230,800	+30,200
June 30.	8,268.60	385,600	+154,800
July 31.	8,279.78	464,000	+78,400
Aug. 31.	8,278.67	456,000	-8,000
Sept. 30.	8,277.99	451,100	-4,900
WTR YR 1995.			+111,600

09018500 LAKE GRANBY NEAR GRANBY, CO--Continued

WATER-QUALITY RECORDS

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

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT						
13...	0940	0.1	55	7.9	11.0	7.3
13...	0941	5.0	55	7.9	11.0	7.2
13...	0942	10	55	7.9	11.0	7.2
13...	0943	15	55	7.9	11.0	7.2
13...	0944	20	55	7.9	11.0	7.2
13...	0945	25	55	7.9	11.0	7.2
13...	0946	30	55	7.9	11.0	7.1
13...	0947	40	55	7.9	11.0	7.1
13...	0948	50	56	7.9	11.0	7.0
13...	0949	60	56	7.8	10.5	6.3
13...	0950	70	57	7.5	7.5	2.0
13...	0951	80	56	7.3	7.0	2.1
13...	0952	90	57	7.2	7.0	2.1
13...	0953	100	57	7.2	7.0	2.0
13...	0954	110	57	7.1	7.0	2.0
13...	0955	120	57	7.1	7.0	2.0
13...	0956	130	57	7.0	7.0	1.9
JUN						
01...	0950	0.1	68	8.3	8.0	9.2
01...	0951	5.0	68	8.3	8.0	9.2
01...	0952	10	67	8.3	8.0	9.1
01...	0953	15	67	8.3	8.0	9.1
01...	0954	20	67	8.3	8.0	9.1
01...	0955	25	67	8.2	7.5	9.1
01...	0956	30	65	8.2	7.0	8.9
01...	0957	40	59	8.1	6.0	8.3
01...	0958	50	59	8.0	5.5	7.5
01...	0959	60	59	8.0	5.0	7.1
01...	1000	70	59	7.9	5.0	6.9
01...	1001	80	59	7.8	5.0	6.4
01...	1002	90	60	7.8	4.5	6.1
01...	1003	100	61	7.8	4.5	5.9
01...	1004	110	62	7.7	4.0	5.2
01...	1005	120	63	7.6	4.5	5.0
01...	1006	130	64	7.6	4.5	4.7
01...	1007	140	64	7.6	4.0	4.3
01...	1008	145	65	7.6	4.0	4.0
29...	0845	0.1	59	8.5	14.0	7.8
29...	0846	5.0	59	8.6	14.0	8.1
29...	0847	10	59	8.6	14.0	7.9
29...	0848	15	59	8.6	14.0	7.8
29...	0849	20	58	8.2	13.0	7.5
29...	0850	25	56	8.0	11.5	7.2
29...	0851	30	50	7.8	11.0	7.4
29...	0852	40	51	7.7	9.5	7.1
29...	0853	50	54	7.6	8.0	6.8
29...	0854	60	56	7.6	7.5	6.3
29...	0855	70	55	7.5	7.5	6.2
29...	0856	80	58	7.5	7.0	5.9
29...	0857	90	59	7.4	7.0	5.4
29...	0858	100	59	7.4	6.5	5.4
29...	0859	110	59	7.4	6.5	5.4
29...	0900	120	59	7.4	6.0	5.4
29...	0901	130	59	7.3	6.0	5.3
29...	0902	140	59	7.3	6.0	5.3
29...	0903	150	59	7.3	6.0	5.5
29...	0904	160	59	7.3	6.0	5.3

09018500 LAKE GRANBY NEAR GRANBY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
JUL						
19...	0850	0.1	57	8.5	17.0	7.4
19...	0851	5.0	57	8.5	17.0	7.4
19...	0852	10	57	8.5	17.0	7.4
19...	0853	15	57	8.5	17.0	7.4
19...	0854	20	46	8.0	14.5	7.2
19...	0855	25	50	7.8	12.5	6.5
19...	0856	30	48	7.6	12.0	6.4
19...	0857	40	45	7.5	10.5	6.3
19...	0858	50	46	7.4	9.0	6.2
19...	0859	60	53	7.3	8.5	5.5
19...	0900	70	55	7.3	7.5	5.0
19...	0901	80	56	7.2	7.0	4.7
19...	0902	90	57	7.2	7.0	4.3
19...	0903	100	57	7.2	7.0	4.1
19...	0904	110	58	7.1	7.0	4.2
19...	0905	120	58	7.1	7.0	4.1
19...	0906	130	58	7.1	6.5	4.1
19...	0907	140	58	7.1	6.5	4.0
AUG						
30...	0930	0.1	52	8.9	19.0	6.9
30...	0931	5.0	53	8.9	19.0	6.9
30...	0932	10	53	8.9	19.0	6.9
30...	0933	15	53	8.8	19.0	6.9
30...	0934	20	51	8.4	18.0	6.5
30...	0935	25	50	7.9	16.5	4.7
30...	0936	30	50	7.7	15.5	4.0
30...	0937	40	48	7.5	12.0	3.6
30...	0938	50	48	7.4	10.0	3.8
30...	0939	60	52	7.3	8.5	3.5
30...	0940	70	54	7.3	8.0	3.3
30...	0941	80	54	7.2	8.0	3.3
30...	0942	90	55	7.1	7.5	3.1
30...	0943	100	56	7.1	7.0	2.9
30...	0944	110	56	7.1	7.0	2.8
30...	0945	120	56	7.1	7.0	2.7
30...	0946	130	56	7.1	7.0	2.7
SEP						
27...	1000	0.1	50	7.7	13.5	7.3
27...	1001	5.0	50	7.8	13.5	7.4
27...	1002	10	50	7.8	13.5	7.4
27...	1003	15	50	7.7	13.5	7.0
27...	1004	20	50	7.6	13.0	7.0
27...	1005	25	50	7.6	13.0	6.5
27...	1006	30	50	7.6	13.0	6.5
27...	1007	40	51	7.5	13.0	6.4
27...	1008	50	49	7.1	11.0	2.9
27...	1009	60	51	7.1	9.5	2.6
27...	1010	70	54	7.0	8.5	2.1
27...	1011	80	54	7.0	8.0	2.0
27...	1012	90	55	7.0	7.5	2.1
27...	1013	100	55	6.9	7.5	2.0
27...	1014	110	55	6.9	7.5	2.0
27...	1015	120	55	6.9	7.5	2.0
27...	1016	130	55	6.9	7.5	1.9

09018500 LAKE GRANBY NEAR GRANBY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
OCT										
13...	1000	0.1	55	7.9	11.0	98.0	7.3	<1	22	7.0
13...	1015	130	57	7.0	7.0	--	1.9	--	24	7.3
JUN										
01...	1030	0.1	68	8.3	8.0	67.0	9.2	K1	28	8.7
01...	1050	145	65	7.6	4.0	--	4.0	--	26	8.2
29...	0915	0.1	59	8.5	14.0	100	7.8	<1	23	7.2
29...	0945	160	59	7.3	6.0	--	5.3	--	25	7.6
JUL										
19...	1000	0.1	57	8.5	17.0	104	7.4	<1	24	7.4
19...	1015	140	58	7.1	6.5	--	4.0	--	24	7.4
AUG										
30...	1015	0.1	52	8.9	19.0	114	6.9	<1	20	6.2
30...	1030	130	56	7.1	7.0	--	2.7	--	23	6.9
SEP										
27...	1030	0.1	50	7.7	13.5	156	7.3	K1	22	6.7
27...	1045	130	55	6.9	7.5	--	1.9	--	24	7.5

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT										
13...	1.2	2.1	0.2	0.9	26	3.0	0.4	0.1	6.1	38
13...	1.3	2.2	0.2	0.7	26	3.1	0.4	<0.1	7.8	42
JUN										
01...	1.5	2.9	0.2	0.8	31	3.1	0.8	0.1	7.2	48
01...	1.4	2.5	0.2	0.8	29	2.6	0.5	0.1	7.4	40
29...	1.3	2.4	0.2	0.7	26	3.3	0.5	0.1	6.5	42
29...	1.4	2.3	0.2	0.7	28	3.1	0.5	0.1	6.7	46
JUL										
19...	1.3	2.4	0.2	0.7	26	2.8	0.5	0.2	6.5	40
19...	1.3	2.4	0.2	0.8	27	2.8	0.6	0.1	6.5	46
AUG										
30...	1.1	1.9	0.2	0.6	24	2.9	0.4	0.1	5.6	24
30...	1.3	2.1	0.2	0.6	26	3.2	0.5	0.1	6.7	30
SEP										
27...	1.2	2.0	0.2	0.6	23	2.1	0.4	<0.1	5.1	32
27...	1.3	2.3	0.2	0.8	25	2.6	0.5	0.1	7.0	38

DATE	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT										
13...	36	<0.01	<0.05	<0.02	0.30	<0.01	<0.01	<0.01	12	0.3
13...	39	<0.01	0.08	<0.02	0.20	0.01	<0.01	<0.01	--	--
JUN										
01...	44	<0.01	<0.05	<0.02	<0.20	<0.01	<0.01	<0.01	3.6	0.3
01...	41	<0.01	0.10	0.03	<0.20	0.02	<0.01	<0.01	--	--
29...	38	<0.01	<0.05	<0.02	<0.20	0.02	<0.01	<0.01	4.9	<0.1
29...	40	<0.01	0.07	0.06	<0.20	<0.01	<0.01	<0.01	--	--
JUL										
19...	37	<0.01	<0.05	<0.02	0.20	<0.01	<0.01	<0.01	3.0	<0.1
19...	38	<0.01	<0.05	<0.02	<0.20	<0.01	<0.01	<0.01	--	--
AUG										
30...	33	<0.01	<0.05	<0.02	0.20	0.01	<0.01	<0.01	6.5	0.2
30...	37	<0.01	0.06	<0.02	<0.20	0.01	<0.01	<0.01	--	--
SEP										
27...	32	<0.01	<0.05	<0.02	0.30	<0.01	<0.01	<0.01	7.6	<0.1
27...	38	<0.01	0.10	<0.02	<0.20	0.02	0.02	<0.01	--	--

K-Based on non-ideal colony count.

09018500 LAKE GRANBY NEAR GRANBY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM, DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
OCT									
13...	1000	8	<0.5	10	<1	<5	<3	<10	5
13...	1015	7	<0.5	10	<1	<5	<3	<10	10
JUN									
01...	1030	9	<0.5	<10	<1	<5	<3	<10	41
01...	1050	7	<0.5	<10	<1	<5	<3	<10	13
29...	0915	8	<0.5	<10	<1	<5	<3	<10	11
29...	0945	7	<0.5	<10	<1	<5	<3	<10	<3
JUL									
19...	1000	8	<0.5	15	2	<5	<3	<10	6
19...	1015	8	<0.5	<10	1	<5	<3	<10	10
AUG									
30...	1015	7	<0.5	<10	<1	<5	<3	<10	6
30...	1030	7	<0.5	<10	<1	<5	<3	<10	30
SEP									
27...	1030	8	<0.5	<10	--	<5	<3	<10	10
27...	1045	7	<0.5	10	<1	<5	<3	<10	20

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM, DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT									
13...	<10	<4	<1	<10	<10	<0.2	45	<6	<3
13...	<10	<4	1	<10	<10	<0.2	47	<6	8
JUN									
01...	<10	<4	<1	<10	<10	<0.2	56	<6	<3
01...	<10	<4	--	<10	<10	<0.2	51	<6	<3
29...	10	5	<1	<10	<10	<0.2	47	<6	<3
29...	<10	<4	<1	<10	<10	<0.2	48	<6	7
JUL									
19...	--	<4	<1	<10	<10	<0.2	47	<6	<3
19...	<10	<4	<1	<10	<10	<0.2	47	<6	<3
AUG									
30...	10	<4	<1	<10	<10	<0.2	38	<6	<3
30...	--	<4	2	<10	<10	<0.2	44	<6	3
SEP									
27...	<10	<4	1	<10	<10	<0.2	41	<6	4
27...	<10	<4	7	<10	<10	<0.2	47	<6	<3

400844105530800 LAKE GRANBY 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 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT						
13...	1115	0.1	56	8.2	11.5	7.4
13...	1116	5.0	56	8.2	11.0	7.4
13...	1117	10	56	8.2	11.0	7.4
13...	1118	15	56	8.1	11.0	7.3
13...	1119	20	56	8.1	11.0	7.3
13...	1120	25	56	8.1	11.0	7.2
13...	1121	30	56	8.0	11.0	7.2
13...	1122	40	56	8.0	11.0	7.2
JUL						
01...	1115	0.1	73	8.1	9.0	9.0
01...	1116	5.0	76	8.1	8.0	9.1
01...	1117	10	80	8.1	8.0	9.1
01...	1118	15	82	8.1	8.0	9.0
01...	1119	20	89	8.0	7.5	8.9
01...	1120	25	89	8.0	7.5	8.9
01...	1121	30	90	8.0	7.5	8.9
01...	1122	35	90	8.0	7.5	8.8
29...	1000	0.1	60	8.4	14.0	7.6
29...	1001	5.0	60	8.4	14.0	7.6
29...	1002	10	60	8.4	14.0	7.6
29...	1003	15	60	8.3	14.0	7.0
29...	1004	20	60	8.3	13.5	7.5
29...	1005	25	59	7.9	12.0	7.3
29...	1006	30	59	7.8	11.5	7.1
29...	1007	40	59	7.6	9.5	6.3
29...	1008	50	60	7.5	8.5	5.6
29...	1009	60	60	7.4	7.5	5.1
JUL						
19...	1100	0.1	57	8.4	17.0	7.0
19...	1101	5.0	58	8.4	17.0	6.7
19...	1102	10	58	8.4	17.0	6.8
19...	1103	15	57	8.4	17.0	6.7
19...	1104	20	57	8.2	16.5	6.5
19...	1105	25	59	7.7	13.5	6.1
19...	1106	30	59	7.5	12.0	5.7
19...	1107	40	55	7.4	10.5	5.0
19...	1108	50	55	7.3	9.5	4.7
19...	1109	60	58	7.1	8.5	3.8
19...	1110	68	58	7.1	8.0	3.4
AUG						
30...	1052	0.1	53	8.7	19.5	6.5
30...	1053	5.0	53	8.7	19.0	6.7
30...	1054	10	53	8.7	19.0	6.6
30...	1055	15	53	8.7	19.0	6.7
30...	1056	20	53	8.3	18.5	6.0
30...	1057	25	53	7.9	17.5	5.1
30...	1058	30	53	7.6	16.0	4.1
30...	1059	40	52	7.4	12.5	3.3
30...	1100	50	51	7.3	10.5	3.4
30...	1101	60	54	7.2	9.0	2.8
SEP						
27...	1130	0.1	53	7.5	13.5	7.0
27...	1131	5.0	52	7.5	13.5	6.7
27...	1132	10	52	7.5	13.0	6.5
27...	1133	15	52	7.5	13.0	6.4
27...	1134	20	52	7.4	13.0	6.4
27...	1135	25	52	7.4	13.0	6.3
27...	1136	30	52	7.4	13.0	6.3
27...	1137	40	52	7.4	13.0	6.3
27...	1138	50	50	7.0	11.5	2.5
27...	1139	60	54	6.9	9.0	1.6
27...	1140	70	55	6.9	8.5	1.5

400844105530800 LAKE GRANBY NEAR GRANBY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS. / 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
OCT										
13...	1130	0.1	56	8.2	11.5	99.0	7.4	<1	23	7.1
13...	1145	40	56	8.0	11.0	--	7.2	--	22	7.0
JUN										
01...	1145	0.1	73	8.1	9.0	61.0	9.0	<1	29	9.1
01...	1200	35	90	8.0	7.5	--	8.8	--	36	11
29...	1030	0.1	60	8.4	14.0	88.0	7.6	<1	24	7.4
29...	1045	60	60	7.4	7.5	--	5.1	--	25	7.8
JUL										
19...	1145	0.1	57	8.4	17.0	97.0	7.0	<1	24	7.5
19...	1200	68	58	7.1	8.0	--	3.4	--	25	7.7
AUG										
30...	1115	0.1	53	8.7	19.5	86.0	6.5	<1	20	6.3
30...	1130	60	54	7.2	9.0	--	2.8	--	21	6.6
SEP										
27...	1145	0.1	53	7.5	13.5	116	7.0	<1	23	7.0
27...	1200	70	55	6.9	8.5	--	1.5	--	22	6.9

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT										
13...	1.2	2.1	0.2	0.7	26	3.2	0.4	0.1	6.0	40
13...	1.2	2.1	0.2	0.6	26	2.9	0.4	<0.1	6.1	34
JUN										
01...	1.6	3.1	0.2	0.8	33	3.4	1.0	0.1	7.8	46
01...	2.0	4.1	0.3	0.8	38	4.2	1.3	0.1	11	60
29...	1.4	2.4	0.2	0.7	27	3.3	0.5	0.1	6.9	32
29...	1.4	2.5	0.2	0.7	28	3.2	0.5	0.1	7.1	48
JUL										
19...	1.3	2.4	0.2	0.7	26	3.1	0.5	0.1	6.5	28
19...	1.4	2.4	0.2	0.8	26	2.9	0.6	0.1	7.3	26
AUG										
30...	1.1	1.9	0.2	0.6	23	2.9	0.4	0.2	5.6	24
30...	1.2	2.0	0.2	0.6	24	3.0	0.5	0.1	6.5	34
SEP										
27...	1.3	2.1	0.2	0.6	24	2.3	0.4	<0.1	5.6	36
27...	1.2	2.1	0.2	0.8	24	2.4	0.4	<0.1	6.2	38

DATE	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT										
13...	36	<0.01	<0.05	<0.02	0.30	<0.01	<0.01	<0.01	11	0.3
13...	36	<0.01	<0.05	<0.02	0.30	<0.01	<0.01	<0.01	--	--
JUN										
01...	47	<0.01	<0.05	<0.02	<0.20	<0.01	<0.01	<0.01	1.0	0.1
01...	58	<0.01	<0.05	0.02	<0.20	0.01	<0.01	<0.01	--	--
29...	39	<0.01	<0.05	<0.02	<0.20	0.01	<0.01	<0.01	3.3	0.2
29...	40	<0.01	<0.05	0.02	<0.20	0.02	<0.01	<0.01	--	--
JUL										
19...	38	<0.01	<0.05	0.02	<0.20	0.03	<0.01	<0.01	2.5	0.1
19...	39	<0.01	<0.05	0.02	<0.20	<0.01	<0.01	<0.01	--	--
AUG										
30...	33	<0.01	<0.05	<0.02	0.30	0.02	<0.01	<0.01	5.9	0.2
30...	35	<0.01	<0.05	<0.02	0.20	0.04	<0.01	<0.01	--	--
SEP										
27...	34	<0.01	<0.05	<0.02	0.30	<0.01	<0.01	<0.01	5.9	0.1
27...	34	<0.01	<0.05	<0.02	0.20	0.02	<0.01	<0.01	--	--

400844105530800 LAKE GRANBY NEAR GRANBY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
OCT									
13...	1130	8	<0.5	<10	<1	<5	<3	<10	6
13...	1145	8	<0.5	<10	<1	<5	<3	<10	6
JUN									
01...	1145	10	<0.5	10	<1	<5	<3	<10	60
01...	1200	14	<0.5	<10	<1	<5	<3	<10	--
29...	1030	8	<0.5	<10	<1	<5	<3	<10	13
29...	1045	9	<0.5	<10	<1	<5	<3	<10	16
JUL									
19...	1145	9	<0.5	<10	<1	<5	3	<10	9
19...	1200	9	<0.5	<10	<1	<5	<3	<10	28
AUG									
30...	1115	7	<0.5	<10	<1	<5	<3	<10	5
30...	1130	8	<0.5	10	<1	<5	<3	<10	27
SEP									
27...	1145	8	<0.5	<10	<1	<5	<3	<10	10
27...	1200	8	<0.5	<10	<1	<5	<3	<10	15

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT									
13...	<10	<4	<1	<10	<10	<0.2	44	<6	7
13...	<10	<4	1	<10	<10	<0.2	44	<6	<3
JUN									
01...	<10	<4	2	<10	<10	<0.2	61	<6	5
01...	10	<4	9	<10	<10	<0.2	77	<6	<3
29...	<10	<4	<1	<10	<10	<0.2	49	<6	<3
29...	<10	<4	<1	<10	<10	<0.2	49	<6	4
JUL									
19...	--	<4	<1	<10	<10	<0.2	48	<6	<3
19...	<10	<4	<1	<10	<10	<0.2	51	<6	<3
AUG									
30...	10	<4	<1	<10	<10	<0.2	39	<6	<3
30...	<10	<4	<1	<10	10	<0.2	42	<6	8
SEP									
27...	<10	<4	1	<10	<10	<0.2	43	<6	<3
27...	<10	<4	5	<10	<10	<0.2	42	<6	<3

09019500 COLORADO RIVER NEAR GRANBY, CO

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

DRAINAGE AREA.--323 mi².

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

REVISED RECORDS.--WSP 2124: Drainage area.

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

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

EXTREMES FOR PERIOD OF SEASONAL RECORD.--Maximum discharge, 2,510 ft³/s, July 11, 1983, gage height, 5.39 ft; minimum daily, 9.6 ft³/s, Sept. 21, 1981.

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

EXTREMES FOR CURRENT SEASON.--Maximum discharge, 887 ft³/s at 1100 July 24, gage height, 3.30 ft; minimum daily, 18 ft³/s, Sept. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	56	79	74	339	30
2	---	---	---	---	---	---	---	84	80	75	230	23
3	---	---	---	---	---	---	---	82	85	80	75	23
4	---	---	---	---	---	---	---	78	84	74	47	23
5	---	---	---	---	---	---	---	79	79	66	40	22
6	---	---	---	---	---	---	---	78	77	71	41	20
7	---	---	---	---	---	---	---	75	78	69	38	18
8	---	---	---	---	---	---	---	77	82	69	39	21
9	---	---	---	---	---	---	---	79	89	69	39	20
10	---	---	---	---	---	---	---	78	78	71	39	19
11	---	---	---	---	---	---	---	79	79	70	39	20
12	---	---	---	---	---	---	---	78	80	72	39	19
13	---	---	---	---	---	---	---	76	82	79	39	19
14	---	---	---	---	---	---	---	77	84	80	40	19
15	---	---	---	---	---	---	---	78	85	74	40	20
16	---	---	---	---	---	---	---	80	84	71	40	21
17	---	---	---	---	---	---	---	82	87	76	41	21
18	---	---	---	---	---	---	---	78	88	80	41	21
19	---	---	---	---	---	---	---	81	85	79	42	21
20	---	---	---	---	---	---	---	79	83	402	41	22
21	---	---	---	---	---	---	---	79	87	752	41	21
22	---	---	---	---	---	---	---	78	86	823	42	21
23	---	---	---	---	---	---	---	79	77	859	42	20
24	---	---	---	---	---	---	---	83	74	740	40	19
25	---	---	---	---	---	---	---	79	72	485	40	20
26	---	---	---	---	---	---	---	79	73	309	39	20
27	---	---	---	---	---	---	---	86	73	276	41	20
28	---	---	---	---	---	---	---	80	73	275	40	21
29	---	---	---	---	---	---	---	78	78	345	40	21
30	---	---	---	---	---	---	---	87	77	376	39	22
31	---	---	---	---	---	---	---	83	---	373	39	---
TOTAL	---	---	---	---	---	---	---	2445	2418	7414	1772	627
MEAN	---	---	---	---	---	---	---	78.9	80.6	239	57.2	20.9
MAX	---	---	---	---	---	---	---	87	89	859	339	30
MIN	---	---	---	---	---	---	---	56	72	66	38	18
AC-FT	---	---	---	---	---	---	---	4850	4800	14710	3510	1240

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 mi².

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, 8,720 acre-ft, July 21, elevation, 8,128.84 ft; minimum, 5,650 acre-ft, Nov. 18, elevation, 8,116.58 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	8,123.68	7,300	-
Oct. 31.	8,125.29	7,730	+430
Nov. 30.	8,117.08	5,760	-1,970
Dec. 31.	8,118.07	5,970	+210
CAL YR 1994.			-360
Jan. 31.	8,118.95	6,170	+200
Feb. 28.	8,119.98	6,400	+230
Mar. 31.	8,112.22	6,940	+540
Apr. 30.	8,120.87	6,610	-330
May 31.	8,119.90	6,380	-230
June 30.	8,122.46	7,000	+620
July 31.	8,128.20	8,540	+1,540
Aug. 31.	8,127.83	8,430	-110
Sept. 30.	8,120.56	6,540	-1,890
WTR YR 1995.			-760

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 mi².

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.--Estimated daily discharges: Oct. 16-20, 23-26, 28, 29, 31, and Nov. 7 to Apr. 23. Records good except those 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	3.7	1.7	1.8	1.5	2.0	1.9	3.0	18	89	33	13
2	4.7	3.4	1.7	1.8	1.5	2.0	2.1	3.0	27	87	31	12
3	4.7	3.3	1.7	1.8	1.5	2.0	2.2	3.1	36	87	29	12
4	4.7	3.7	1.6	1.8	1.5	2.0	2.3	3.2	41	80	28	11
5	4.7	3.6	1.6	1.8	1.5	2.0	2.3	3.5	44	75	27	11
6	4.7	3.6	1.6	1.8	1.5	2.0	2.5	3.6	52	81	25	11
7	4.7	3.6	1.6	1.8	1.5	2.0	2.5	3.5	56	91	24	12
8	4.7	3.3	1.6	1.8	1.5	2.0	2.6	3.3	56	98	24	13
9	4.5	3.2	1.6	1.7	1.5	2.0	2.7	3.2	49	104	24	12
10	4.3	3.0	1.6	1.7	1.6	2.1	2.8	3.6	43	103	23	11
11	4.2	2.9	1.6	1.7	1.6	2.1	2.7	4.0	43	102	22	12
12	4.2	2.8	1.6	1.7	1.6	2.1	2.7	4.3	54	100	22	11
13	4.1	2.7	1.5	1.7	1.6	2.1	2.8	4.4	69	98	21	9.9
14	4.0	2.6	1.5	1.7	1.5	2.0	2.7	5.3	82	98	20	9.6
15	4.1	2.5	1.6	1.6	1.5	2.0	2.6	8.1	94	92	19	9.3
16	4.0	2.5	1.6	1.6	1.5	2.0	2.6	9.7	101	85	19	9.1
17	4.0	2.4	1.6	1.6	1.5	2.0	2.6	9.1	113	80	18	9.0
18	4.0	2.3	1.6	1.6	1.6	2.0	2.6	8.0	128	79	17	9.6
19	4.0	2.3	1.6	1.6	1.6	2.0	2.5	8.0	119	74	19	9.4
20	4.0	2.3	1.6	1.6	1.6	2.0	2.4	8.4	117	69	20	11
21	4.0	2.1	1.6	1.5	1.7	2.0	2.4	9.9	129	64	19	10
22	3.9	2.1	1.6	1.5	1.7	1.9	2.4	14	127	61	18	9.4
23	3.9	2.0	1.6	1.5	1.8	1.9	2.5	16	110	58	18	9.0
24	3.8	1.9	1.6	1.5	1.8	1.8	2.7	15	102	54	17	8.6
25	3.8	1.9	1.6	1.5	1.9	1.8	2.7	14	98	52	17	8.3
26	3.8	1.8	1.7	1.5	1.9	1.8	2.6	13	102	50	16	8.1
27	3.6	1.8	1.7	1.5	1.9	1.8	2.9	13	102	47	16	7.9
28	3.6	1.7	1.7	1.5	2.0	1.9	3.1	12	100	43	16	8.0
29	3.7	1.7	1.7	1.5	---	1.9	3.0	13	98	40	15	8.8
30	3.8	1.7	1.7	1.5	---	1.9	2.9	15	91	38	14	8.6
31	3.8	---	1.7	1.5	---	1.9	---	14	---	35	13	---
TOTAL	128.6	78.4	50.3	50.7	45.4	61.0	77.3	251.2	2401	2314	644	304.6
MEAN	4.15	2.61	1.62	1.64	1.62	1.97	2.58	8.10	80.0	74.6	20.8	10.2
MAX	4.7	3.7	1.7	1.8	2.0	2.1	3.1	16	129	104	33	13
MIN	3.6	1.7	1.5	1.5	1.5	1.8	1.9	3.0	18	35	13	7.9
AC-FT	255	156	100	101	90	121	153	498	4760	4590	1280	604

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1995, BY WATER YEAR (WY)

	MEAN	5.58	3.94	2.95	2.32	1.94	2.03	4.47	25.9	68.7	30.2	12.2	7.91
MAX	9.66	5.62	3.68	2.85	2.57	2.61	6.45	42.2	86.1	74.6	20.8	13.0	
(WY)	1985	1985	1971	1985	1985	1969	1971	1992	1986	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 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1969 - 1995
ANNUAL TOTAL	3691.1	6406.5	
ANNUAL MEAN	10.1	17.6	14.0
HIGHEST ANNUAL MEAN			17.6
LOWEST ANNUAL MEAN			10.4
HIGHEST DAILY MEAN	72	129	135
LOWEST DAILY MEAN	a 1.5	b 1.5	1.2
ANNUAL SEVEN-DAY MINIMUM	1.6	1.5	1.4
INSTANTANEOUS PEAK FLOW		144	181
INSTANTANEOUS PEAK STAGE		2.00	2.15
ANNUAL RUNOFF (AC-FT)	7320	12710	10140
10 PERCENT EXCEEDS	41	71	42
50 PERCENT EXCEEDS	4.0	3.5	4.8
90 PERCENT EXCEEDS	1.7	1.6	1.9

a-Also occurred Dec 13, 14.

b-Also occurred Dec 14, Jan 21 to Feb 9, and Feb 14-17.

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. Data collected April 7 are part of an upper Colorado NAWQA synoptic on Fraser River.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO
OCT 12...	1059	4.4	--	--	--	--	--	--	--	--	--
MAR 15...	1028	2.0	176	8.5	0.5	10.6	--	--	--	--	--
APR 07...	0830	2.3	209	8.1	0.0	9.9	49	12	4.5	18	1
21...	1330	2.4	196	8.4	2.0	9.6	--	--	--	--	--
MAY 24...	1330	14	156	7.5	5.0	9.0	--	--	--	--	--
JUN 07...	1433	56	97	7.4	3.5	--	--	--	--	--	--
JUL 31...	1428	34	57	7.8	9.0	8.2	--	--	--	--	--
AUG 17...	0930	18	69	8.1	5.5	8.7	--	--	--	--	--
SEP 28...	1531	8.0	89	7.8	4.5	9.3	--	--	--	--	--

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED PER AC-FT)	SOLIDS, DIS- SOLVED PER DAY)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)
OCT 12...	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	--	--	--	32	--	--	--	--	--	--	<1
APR 07...	0.7	25	2.6	44	0.2	8.1	119	106	0.16	0.74	--
21...	--	--	--	40	--	--	--	--	--	--	<1
MAY 24...	--	--	--	32	--	--	--	--	--	--	5
JUN 07...	--	--	--	14	--	--	--	--	--	--	20
JUL 31...	--	--	--	4.0	--	--	--	--	--	--	7
AUG 17...	--	--	--	5.2	--	--	--	--	--	--	1
SEP 28...	--	--	--	7.0	--	--	--	--	--	--	2

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT 12...	--	--	--	--	--	--	--	--
MAR 15...	0.001	0.110	<0.002	--	--	--	0.001	0.004
APR 07...	<0.01	0.11	<0.02	<0.20	<0.20	<0.01	<0.01	<0.01
21...	0.006	0.093	0.003	--	--	--	0.001	0.001
MAY 24...	0.002	0.074	0.002	--	--	--	0.003	0.002
JUN 07...	<0.001	0.066	<0.002	--	--	--	0.003	<0.001
JUL 31...	<0.001	0.013	<0.002	--	--	--	0.005	0.001
AUG 17...	<0.001	0.020	<0.002	--	--	--	0.001	<0.001
SEP 28...	<0.001	0.014	<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 mi².

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

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

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)
MAR 15...	1654	4.5	201	8.1	2.0	9.8	36	182
APR 21...	1130	5.8	164	8.2	2.0	10.4	27	<1
MAY 24...	1215	23	143	7.7	5.0	10.0	26	4
JUN 07...	1335	112	89	7.4	4.5	--	10	3
JUL 31...	1302	33	54	7.9	9.0	8.0	2.7	2
AUG 17...	1030	23	63	7.9	7.0	8.9	3.0	1
SEP 28...	1410	7.5	95	8.1	5.5	9.0	6.1	<1

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
MAR 15...	0.005	0.160	0.052	0.014	0.012
APR 21...	0.008	0.055	0.005	0.003	0.002
MAY 24...	0.003	0.035	0.008	0.005	0.004
JUN 07...	<0.001	0.048	<0.002	0.004	0.001
JUL 31...	<0.001	0.029	<0.002	0.002	<0.001
AUG 17...	0.001	0.037	<0.002	0.002	<0.001
SEP 28...	<0.001	0.013	<0.002	0.001	<0.001

LOCATION.--Lat 39°54'00", long 105°46'34", in SE 1/4 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.

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.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	6.3	3.1	2.9	4.4	6.4	7.4	11	50	227	89	20
2	5.1	6.1	3.0	3.1	4.3	6.4	7.4	12	63	209	61	20
3	4.9	6.1	3.0	3.1	4.2	6.4	7.8	12	73	220	56	19
4	4.9	6.1	3.1	3.1	4.2	6.4	8.5	11	78	202	52	19
5	7.2	6.2	3.4	3.2	4.3	6.4	9.2	13	86	180	45	19
6	7.7	6.3	3.4	3.0	4.3	6.5	9.9	14	102	193	30	18
7	7.4	6.1	3.5	3.1	4.3	6.4	11	13	112	229	29	18
8	7.3	6.1	3.3	3.0	4.1	6.4	12	12	112	269	30	20
9	7.3	6.2	4.1	3.3	4.3	6.4	11	12	92	334	30	18
10	7.1	6.2	3.6	3.2	4.2	6.4	10	13	82	356	30	17
11	7.0	6.2	3.4	3.2	4.3	6.3	12	15	87	348	31	19
12	7.0	6.1	3.4	3.1	4.4	6.3	9.6	15	112	326	31	17
13	7.0	6.2	3.4	3.2	4.5	6.3	10	15	149	313	31	17
14	7.0	6.0	3.5	3.8	4.6	6.3	10	17	206	314	32	16
15	7.5	6.0	3.4	3.8	4.7	6.6	9.8	23	264	265	32	14
16	7.5	5.8	3.4	3.8	4.7	6.6	10	25	253	244	33	9.4
17	8.1	5.6	3.4	3.7	4.8	6.5	10	28	291	235	32	9.4
18	7.3	5.4	3.3	3.8	4.9	6.9	10	24	251	237	31	9.5
19	7.1	5.2	3.3	3.8	5.0	6.5	9.8	24	237	216	31	9.2
20	7.1	5.0	3.3	3.8	5.0	6.3	9.5	25	326	200	32	11
21	8.0	4.8	3.3	3.9	5.2	6.8	9.3	27	342	189	32	11
22	7.1	4.7	3.2	3.9	5.3	6.7	8.8	29	424	179	31	10
23	5.4	4.5	3.1	3.9	5.4	6.8	8.8	30	356	161	29	13
24	5.6	4.3	3.2	4.0	5.6	6.6	8.9	28	291	142	25	12
25	5.8	4.2	3.1	4.1	5.8	6.8	9.0	30	260	134	24	11
26	6.0	4.0	3.1	4.1	5.8	7.0	9.4	27	250	113	23	7.0
27	5.4	3.7	3.1	4.1	6.0	7.0	10	26	249	85	23	6.7
28	5.4	3.6	3.1	4.1	6.4	7.0	11	25	259	60	22	6.7
29	5.6	3.5	3.1	4.1	---	7.2	11	28	270	27	22	8.0
30	5.5	3.2	3.1	4.2	---	7.2	11	31	251	26	21	8.2
31	5.8	---	3.1	4.4	---	7.2	---	34	---	43	20	---
TOTAL	202.1	159.7	101.8	111.8	135.0	205.0	292.1	649	5978	6276	1040	413.1
MEAN	6.52	5.32	3.28	3.61	4.82	6.61	9.74	20.9	199	202	33.5	13.8
MAX	8.1	6.3	4.1	4.4	6.4	7.2	12	34	424	356	89	20
MIN	4.9	3.2	3.0	2.9	4.1	6.3	7.4	11	50	26	20	6.7
AC-FT	401	317	202	222	268	407	579	1290	11860	12450	2060	81

MEAN	10.7	9.65	7.64	6.67	6.25	6.66	12.9	49.3	114	48.7	19.4	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	1967

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1911 - 1995	
ANNUAL TOTAL	5578.5		15563.6			
ANNUAL MEAN	15.3		42.6		25.4	
HIGHEST ANNUAL MEAN					60.9	
LOWEST ANNUAL MEAN					5.93	
HIGHEST DAILY MEAN	^a 133	Jun 2	424	Jun 22	622	Jun 14 1918
LOWEST DAILY MEAN	^b 3.0	Dec 2	2.9	Jan 1	^c 2.0	Mar 29 1912
ANNUAL SEVEN-DAY MINIMUM	3.1	Dec 25	3.1	Dec 26	2.1	Oct 5 1956
INSTANTANEOUS PEAK FLOW			508	Jun 22	820	Jun 13 1918
INSTANTANEOUS PEAK STAGE			^d 2.81	Jun 22	2.90	Jun 13 1918
INSTANTANEOUS LOW FLOW					2.0	Mar 29 1912
ANNUAL RUNOFF (AC-FT)	11060		30870		18420	
10 PERCENT EXCEEDS	33		191		58	
50 PERCENT EXCEEDS	6.5		7.5		8.8	
90 PERCENT EXCEEDS	4.2		3.4		4.1	

a-Also occurred Jun 4.
b-Also occurred Dec 3.
c-Also occurred Mar 30, Apr 9, 1912, and Jan 23, 1915.
d-Maximum gage height, 2.84 ft, Jul 9.

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 mi².

PERIOD OF RECORD.--June to August 1907, July to November 1909, October 1933 to current year. Monthly discharge only for some periods, published in WSP 1313. Records for June to October 1908, published in WSP 269, are unreliable and should not be used. Published as Vasquez River at lower station, near Fraser 1907-9, 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.--Estimated daily discharges: Oct. 31, Nov. 1, 2, 4-6, 8, 10, Nov. 15 to Dec. 24, Jan. 2-7, 18, 21-27, 30, Feb. 11-26, Mar. 5, 17-20, 23, 25, 27-29, 31, Apr. 11, 12, July 27 to Aug. 16, and Sept. 18, 19. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	4.6	6.4	7.6	8.6	8.1	11	9.8	44	175	17	33
2	5.1	4.7	6.4	8.5	8.1	8.2	11	10	58	168	15	32
3	5.0	4.6	6.4	8.6	7.7	8.2	10	9.3	70	174	15	32
4	5.0	4.9	6.4	8.8	8.2	8.1	10	7.8	75	159	14	31
5	5.0	5.0	6.4	8.9	7.8	8.6	10	8.5	84	148	14	31
6	5.4	5.2	6.4	8.9	7.7	8.6	10	7.6	98	160	15	30
7	5.3	5.1	6.4	8.9	7.8	8.7	10	7.4	106	181	13	32
8	5.2	5.0	6.4	8.7	7.0	9.8	11	8.1	106	192	13	36
9	5.3	4.7	6.4	8.3	6.9	9.9	10	7.4	86	206	13	33
10	5.3	4.9	6.4	7.9	7.5	9.6	9.6	8.2	74	215	12	29
11	5.3	4.9	6.4	7.7	7.4	8.9	9.6	8.5	79	214	12	33
12	5.3	4.8	6.4	7.5	7.4	8.5	9.5	8.9	103	220	12	30
13	5.1	4.5	6.4	7.2	7.4	8.2	9.4	8.6	138	205	12	27
14	5.0	4.5	6.4	7.1	7.4	8.2	10	10	178	204	11	25
15	5.1	4.5	6.4	7.0	7.5	8.7	9.9	14	196	183	11	25
16	4.9	4.6	6.4	7.2	7.5	9.1	9.6	16	218	169	10	23
17	5.3	4.8	6.5	7.3	7.5	9.0	9.7	19	258	162	11	23
18	5.1	4.9	6.6	7.4	7.6	9.0	9.6	16	287	159	11	23
19	4.9	5.2	6.6	7.6	7.6	9.0	9.0	17	241	144	11	23
20	5.3	5.4	6.7	7.2	7.7	8.6	9.0	17	256	139	18	26
21	5.3	5.7	6.9	7.2	7.8	9.3	9.3	18	264	136	49	27
22	5.5	6.0	6.9	7.1	7.9	9.6	9.0	19	238	132	61	24
23	5.3	6.2	6.9	7.0	7.9	9.5	9.1	20	213	128	48	23
24	5.3	6.4	7.0	7.0	8.0	8.8	9.3	20	187	118	45	22
25	5.6	6.4	7.0	7.0	8.0	9.5	9.1	21	181	85	44	22
26	6.0	6.4	7.6	7.0	8.0	9.7	9.9	20	188	20	42	22
27	5.2	6.4	7.4	7.0	8.0	10	10	20	196	16	40	22
28	5.0	6.4	7.1	6.9	8.2	11	10	19	205	14	38	22
29	4.6	6.4	7.1	7.2	---	11	11	21	202	15	37	25
30	4.6	6.4	7.1	8.0	---	10	11	23	181	16	36	25
31	4.6	---	7.1	8.7	---	10	---	27	---	16	34	---
TOTAL	160.0	159.5	206.9	238.4	216.1	283.4	295.6	447.1	4810	4273	734	811
MEAN	5.16	5.32	6.67	7.69	7.72	9.14	9.85	14.4	160	138	23.7	27.0
MAX	6.0	6.4	7.6	8.9	8.6	11	11	27	287	220	61	36
MIN	4.6	4.5	6.4	6.9	6.9	8.1	9.0	7.4	44	14	10	22
AC-FT	317	316	410	473	429	562	586	887	9540	8480	1460	1610

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1995, BY WATER YEAR (WY)

	MEAN	5.88	6.68	5.48	4.74	4.37	4.49	7.43	26.3	65.0	23.5	7.80	6.63
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1934 - 1995

ANNUAL TOTAL	4061.6	12635.0		
ANNUAL MEAN	11.1	34.6		
HIGHEST ANNUAL MEAN			39.6	1936
LOWEST ANNUAL MEAN			2.30	1963
HIGHEST DAILY MEAN	110	Jun 4	417	Jun 25 1983
LOWEST DAILY MEAN	a4.5	Sep 17	b4.5	Nov 13
ANNUAL SEVEN-DAY MINIMUM	4.6	Sep 22	c.00	Sep 9 1944
INSTANTANEOUS PEAK FLOW			d.00	Sep 9 1944
INSTANTANEOUS PEAK STAGE			526	Jun 27 1983
ANNUAL RUNOFF (AC-FT)	8060	25060	3.47	Jun 18
10 PERCENT EXCEEDS	18	141	21	
50 PERCENT EXCEEDS	6.8	9.1	5.4	
90 PERCENT EXCEEDS	5.0	5.3	1.5	

a-Also occurred Sept 18, 24-26, and Nov 13-15.

b-Also occurred Nov 14 and 15.

c-Also no flow at times in 1946, 1956, 1960, and 1966.

d-From rating curve extended above 286 ft³/s.

09025010 FRASER RIVER BELOW VASQUEZ CREEK AT WINTER PARK, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°55'37", long 105°47'08", NE¹/4SW¹/4 sec.28, T.1 S., R.75 W., Grand County, Hydrologic Unit 14010001 on left bank approximately 1,500 ft downstream from the confluence of Vasquez Creek and the Fraser River.

DRAINAGE AREA.--59.1 mi².

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

REMARKS.--Nutrient analysis based on low-level methods. Data collected April 7 are part of an upper Colorado NAWQA synoptic on Fraser River.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO
MAR 15...	1600	13	117	8.4	0.5	11.1	--	--	--	--	--
APR 07...	1035	16	132	8.1	1.0	10.8	34	9.0	2.7	9.8	0.7
21...	1000	16	126	8.4	1.0	11.6	--	--	--	--	--
MAY 24...	1045	53	98	8.0	4.5	10.3	--	--	--	--	--
JUN 07...	1228	190	72	7.6	5.0	--	--	--	--	--	--
JUL 31...	1142	43	52	8.1	9.0	8.8	--	--	--	--	--
AUG 17...	1200	29	57	7.9	9.5	8.5	--	--	--	--	--
SEP 28...	1254	27	59	7.8	4.5	9.1	--	--	--	--	--

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)
MAR 15...	--	--	--	12	--	--	--	--	--	--	15
APR 07...	1.2	27	3.9	17	0.3	11	76	73	0.10	3.28	--
21...	--	--	--	16	--	--	--	--	--	--	3
MAY 24...	--	--	--	13	--	--	--	--	--	--	7
JUN 07...	--	--	--	5.7	--	--	--	--	--	--	8
JUL 31...	--	--	--	--	--	--	--	--	--	--	--
AUG 17...	--	--	--	2.4	--	--	--	--	--	--	1
SEP 28...	--	--	--	2.1	--	--	--	--	--	--	<1

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
MAR 15...		0.005	0.310	0.564	--	--	0.071	0.075
APR 07...	<0.01	0.22	0.33	0.5	0.4	0.05	0.04	0.04
21...	0.012	0.170	0.058	--	--	--	0.018	0.014
MAY 24...	0.004	0.052	<0.002	--	--	--	0.014	0.006
JUN 07...	0.001	0.044	<0.002	--	--	--	0.009	0.003
JUL 31...	0.002	0.037	0.012	--	--	--	0.009	0.004
AUG 17...	0.007	0.045	<0.002	--	--	--	0.007	0.004
SEP 28...	<0.001	0.038	<0.002	--	--	--	0.003	<0.001

09025400 ELK CREEK NEAR FRASER, CO

LOCATION.--Lat 39°55'09", long 105°49'31", in SE¹/4NW¹/4 sec.31, T.1 S., R.75 W., Grand County, Hydrologic Unit 14010001, on right bank 100 ft upstream from unnamed tributary, 1,150 ft downstream from West Elk Creek, 2.0 mi southwest of Fraser, and 2.5 mi upstream from mouth.

DRAINAGE AREA.--7.15 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 8,805 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 15 to Apr. 4, and July 30 to Aug. 17. Records fair except those for estimated daily discharges, which are poor. Transmountain diversions upstream from station to Moffat water tunnel. Diversions for irrigation of about 100 acres of hay meadows upstream from station. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.56	.24	.24	.23	.35	.40	.84	1.5	23	30	6.6	2.0
2	.64	.25	.24	.24	.35	.40	.80	1.8	26	26	6.0	2.4
3	.59	.26	.24	.24	.36	.40	.78	1.7	29	26	5.2	2.6
4	.40	.28	.24	.24	.36	.41	.74	3.5	31	25	4.5	1.3
5	.56	.29	.23	.25	.36	.42	.73	3.0	32	21	4.1	1.6
6	.50	.32	.23	.25	.36	.42	.91	4.0	33	21	3.8	1.4
7	.37	.32	.23	.26	.36	.42	1.2	3.4	36	20	3.5	1.6
8	.42	.33	.23	.26	.37	.44	1.3	2.6	35	20	3.2	2.0
9	.54	.23	.24	.26	.37	.47	1.2	2.0	32	21	3.0	2.1
10	.38	.22	.24	.27	.37	.48	.85	3.3	29	21	2.0	1.7
11	.38	.24	.24	.27	.37	.50	.73	5.5	28	21	1.4	1.9
12	.38	.22	.24	.27	.37	.52	.74	5.9	30	21	1.2	1.6
13	.36	.23	.24	.28	.37	.55	1.0	5.7	33	19	1.2	1.2
14	.36	.27	.25	.29	.37	.59	1.2	7.1	36	19	1.1	1.1
15	.33	.26	.25	.30	.37	.60	1.3	9.2	41	17	1.1	1.1
16	.31	.25	.25	.30	.37	.62	1.1	8.5	45	14	1.1	1.1
17	.32	.25	.25	.31	.37	.65	1.3	11	44	13	1.3	.99
18	.27	.26	.25	.31	.38	.66	1.1	10	49	13	2.0	1.1
19	.27	.25	.25	.32	.38	.68	.97	10	48	12	2.1	.99
20	.26	.24	.25	.33	.38	.68	.94	11	47	11	2.3	1.1
21	.26	.24	.25	.32	.38	.70	1.0	11	48	11	3.0	1.4
22	.27	.24	.25	.32	.38	.74	.91	12	40	10	4.2	1.1
23	.24	.25	.24	.33	.38	.78	.82	12	34	9.9	3.8	1.0
24	.26	.25	.24	.33	.39	.84	.78	12	33	8.9	3.5	1.0
25	.27	.25	.23	.33	.39	.90	.80	14	31	8.1	3.3	.80
26	.25	.25	.23	.33	.39	.96	.76	16	30	7.5	3.5	.72
27	.24	.25	.23	.34	.40	1.0	1.1	16	29	7.1	3.2	.70
28	.24	.24	.23	.34	.40	1.0	1.4	15	30	6.7	2.7	.75
29	.23	.24	.23	.34	---	1.0	1.5	16	32	6.6	2.4	1.2
30	.22	.24	.23	.35	---	.96	1.4	18	31	6.8	2.4	1.3
31	.23	---	.23	.35	---	.92	---	20	---	6.7	2.3	---
TOTAL	10.91	7.66	7.42	9.16	10.45	20.11	30.20	272.7	1045	480.3	91.0	40.85
MEAN	.35	.26	.24	.30	.37	.65	1.01	8.80	34.8	15.5	2.94	1.36
MAX	.64	.33	.25	.35	.40	1.0	1.5	20	49	30	6.6	2.6
MIN	.22	.22	.23	.23	.35	.40	.73	1.5	23	6.6	1.1	.70
AC-FT	22	15	15	18	21	40	60	541	2070	953	180	81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1995, BY WATER YEAR (WY)

	MEAN	.83	.53	.46	.47	.45	.48	1.58	10.0	13.6	5.61	1.57	1.10
MAX	2.00	1.35	1.03	1.46	1.30	1.14	4.14	34.8	45.1	22.7	3.65	2.65	
(WY)	1971	1971	1993	1993	1993	1993	1971	1984	1983	1983	1984	1984	1984
MIN	.30	.26	.12	.11	.11	.26	.32	1.69	1.07	1.05	.62	.35	
(WY)	1984	1995	1977	1977	1977	1977	1973	1977	1977	1976	1994	1978	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1971 - 1995

ANNUAL TOTAL	584.40	2025.76		
ANNUAL MEAN	1.60	5.55	3.07	
HIGHEST ANNUAL MEAN			7.22	1984
LOWEST ANNUAL MEAN			.83	1977
HIGHEST DAILY MEAN	15 Jun 1	49 Jun 18	95	May 25 1984
LOWEST DAILY MEAN	a .22 Oct 30	a .22 Oct 30	.10	Jan 13 1977
ANNUAL SEVEN-DAY MINIMUM	.23 Feb 7	.23 Dec 25	.11	Jan 9 1977
INSTANTANEOUS PEAK FLOW		57 Jun 20	106	May 24 1984
INSTANTANEOUS PEAK STAGE		b 2.44 Jun 20	c 3.13	May 24 1984
ANNUAL RUNOFF (AC-FT)	1160	4020	2220	
10 PERCENT EXCEEDS	4.8	21	7.2	
50 PERCENT EXCEEDS	.40	.78	.80	
90 PERCENT EXCEEDS	.24	.24	.32	

a-Also occurred Nov. 10, 12.

b-Maximum gage height, 2.63 ft, Jun 17, 1995.

c-Maximum gage height, 3.97 ft, Mar 12, and Apr 10-16, 1987, backwater from ice.

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 mi².

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.--Estimated daily discharges: Nov. 4-7, 9-11, 13-21, Dec. 8-10, Dec. 15 to Apr. 11, 13, 21, 22, 26, 27, and May 5-7. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	7.5	5.7	4.5	3.8	4.3	6.4	6.3	48	279	122	20
2	9.1	5.3	5.8	4.5	3.9	4.4	6.2	6.5	62	256	118	19
3	8.9	5.4	5.8	4.5	3.9	4.3	6.0	6.2	72	266	109	19
4	8.8	5.5	5.8	4.4	3.9	4.3	5.8	6.1	82	243	106	19
5	9.1	5.6	5.9	4.3	3.9	4.4	5.7	6.0	98	214	98	18
6	9.5	5.7	5.9	4.3	3.9	4.3	5.9	6.0	110	222	69	17
7	9.4	5.8	5.9	4.3	4.0	4.3	6.2	5.8	118	261	43	17
8	9.1	5.6	5.8	4.2	4.0	4.4	6.4	5.8	123	289	37	18
9	8.4	5.9	5.7	4.2	4.1	4.4	6.4	5.8	120	324	35	17
10	8.4	6.1	5.7	4.2	4.0	4.4	6.4	6.6	100	363	34	17
11	8.0	6.3	5.7	4.1	4.0	4.5	6.4	7.6	99	378	33	16
12	7.0	6.8	5.5	4.1	4.0	4.5	6.3	8.1	135	405	22	16
13	5.5	7.0	5.5	4.1	4.0	4.6	6.2	7.5	198	368	21	15
14	4.0	7.0	5.7	4.0	4.0	4.7	6.1	9.5	255	369	21	15
15	3.2	7.0	5.4	4.0	4.0	4.8	6.0	15	278	316	20	15
16	3.3	6.9	5.4	4.0	4.0	4.9	6.1	16	316	306	20	12
17	3.1	6.9	5.4	4.0	4.0	5.2	5.9	15	366	274	22	8.0
18	3.5	6.8	5.4	4.0	4.0	5.3	6.1	14	418	274	23	8.0
19	3.5	6.8	5.4	3.9	3.9	5.3	5.7	15	343	245	21	7.9
20	6.1	6.5	5.4	3.9	3.9	5.6	5.4	16	342	239	20	9.2
21	6.2	6.4	5.4	3.9	4.0	5.7	5.4	18	374	234	22	17
22	5.9	6.3	5.4	3.9	4.1	5.8	5.3	21	378	228	28	12
23	5.9	6.1	5.2	3.9	4.0	6.4	5.3	22	335	217	28	8.8
24	6.0	6.2	5.2	3.9	4.0	6.8	5.3	22	293	191	25	8.0
25	6.1	6.1	5.1	3.9	4.1	7.0	5.6	21	271	179	25	8.4
26	6.1	6.0	4.9	3.9	4.1	7.2	5.7	26	281	171	26	8.7
27	6.1	5.9	4.8	3.9	4.1	7.4	5.9	25	296	161	25	8.7
28	6.6	5.9	4.8	3.9	4.3	7.4	6.1	23	313	152	25	8.7
29	6.2	5.7	4.7	3.9	---	7.2	6.0	25	315	141	22	12
30	6.7	5.8	4.7	3.9	---	6.9	6.1	30	288	101	21	21
31	7.7	---	4.6	3.8	---	6.8	---	37	---	83	20	---
TOTAL	206.2	186.8	167.6	126.3	111.9	167.5	178.3	454.8	6827	7749	1261	416.4
MEAN	6.65	6.23	5.41	4.07	4.00	5.40	5.94	14.7	228	250	40.7	13.9
MAX	9.5	7.5	5.9	4.5	4.3	7.4	6.4	37	418	405	122	21
MIN	3.1	5.3	4.6	3.8	3.8	4.3	5.3	5.8	48	83	20	7.9
AC-FT	409	371	332	251	222	332	354	902	13540	15370	2500	826

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1995, BY WATER YEAR (WY)

	MEAN	11.7	9.27	7.58	6.81	6.26	6.36	9.51	37.1	115	68.3	24.5	14.6
MAX	31.4	17.8	14.3	12.0	11.0	12.0	26.2	102	257	250	70.1	34.1	
(WY)	1962	1950	1946	1946	1946	1946	1960	1936	1952	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1934 - 1995

ANNUAL TOTAL	5086.1	17852.8		
ANNUAL MEAN	13.9	48.9	26.4	
HIGHEST ANNUAL MEAN			48.9	1995
LOWEST ANNUAL MEAN			9.98	1963
HIGHEST DAILY MEAN	^a 141	Jun 1	418	Jun 18 1995
LOWEST DAILY MEAN	3.1	Oct 17	3.1	Oct 17
ANNUAL SEVEN-DAY MINIMUM	3.7	Oct 13	3.7	Oct 13
INSTANTANEOUS PEAK FLOW			558	Jun 17 1995
INSTANTANEOUS PEAK STAGE			2.80	Jun 17
ANNUAL RUNOFF (AC-FT)	10090	35410	19150	
10 PERCENT EXCEEDS	20	230	63	
50 PERCENT EXCEEDS	7.2	6.4	10	
90 PERCENT EXCEEDS	5.7	4.0	4.7	

a-Also occurred Jun 4.

b-Also occurred Jan 26-30, Feb 1, 2, and Feb 14.

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", SE¹/4NW¹/4 sec.6, T.1 S., R.75 W., Grand County, Hydrologic Unit 14010001, on right bank approximately 100 ft upstream from the bridge over the Fraser River.

DRAINAGE AREA.--116 mi².

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

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

REMARKS.--Nutrient analysis based on low-level methods. Data collected April 7 are part of an upper Colorado NAWQA synoptic on Fraser River.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM AD-SORP-TION RATIO
MAR 15...	1412	22	131	7.9	0.0	10.4	--	--	--	--	--
APR 07...	1150	45	120	7.7	0.5	10.4	35	10	2.4	7.2	0.5
21...	0900	26	124	8.1	0.0	12.1	--	--	--	--	--
MAY 24...	0915	104	90	7.8	4.0	10.4	--	--	--	--	--
JUN 07...	1039	288	75	8.0	5.0	9.6	--	--	--	--	--
JUL 31...	1012	118	58	8.4	10.0	9.3	--	--	--	--	--
AUG 17...	1400	51	71	8.3	15.0	7.5	--	--	--	--	--
SEP 28...	1043	35	70	8.7	4.5	11.4	--	--	--	--	--

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
MAR 15...	--	--	--	9.3	--	--	--	--	--	--	9
APR 07...	2.2	33	3.6	11	0.2	11	75	70	0.10	9.11	--
21...	--	--	--	11	--	--	--	--	--	--	1
MAY 24...	--	--	--	9.1	--	--	--	--	--	--	8
JUN 07...	--	--	--	4.1	--	--	--	--	--	--	12
JUL 31...	--	--	--	1.5	--	--	--	--	--	--	4
AUG 17...	--	--	--	2.5	--	--	--	--	--	--	5
SEP 28...	--	--	--	2.3	--	--	--	--	--	--	2

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)
MAR 15...	0.008	0.660	0.731	--	--	--	0.210	0.190
APR 07...	<0.01	0.33	0.34	0.6	0.6	0.12	0.09	0.08
21...	0.014	0.260	0.131	--	--	--	0.077	0.071
MAY 24...	0.008	0.066	0.002	--	--	--	0.035	0.027
JUN 07...	0.001	0.031	<0.002	--	--	--	0.015	0.007
JUL 31...	0.002	0.026	0.006	--	--	--	0.018	0.016
AUG 17...	0.006	0.017	0.013	--	--	--	0.033	0.031
SEP 28...	0.002	<0.005	<0.002	--	--	--	0.025	0.013

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 right bank 450 ft downstream from Middle Fork and 2.7 mi east of Fraser.

DRAINAGE AREA.--19.9 mi².

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 8,685 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 31 to Mar. 14, 22-25, Apr. 11, 14, and June 18-21. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	2.7	2.4	1.8	1.9	1.4	1.8	3.5	30	162	47	4.9
2	5.2	2.7	2.4	1.8	1.8	1.4	1.8	3.8	39	153	40	4.7
3	5.2	2.8	2.3	1.9	1.6	1.4	1.8	4.0	50	153	11	4.8
4	5.0	3.0	2.3	1.9	1.6	1.4	2.0	3.9	55	139	11	4.6
5	5.1	3.0	2.2	2.0	1.6	1.4	2.3	4.7	67	127	11	4.5
6	6.0	3.0	2.1	2.2	1.6	1.4	2.5	5.1	94	144	9.5	4.4
7	6.0	3.1	2.0	2.2	1.6	1.4	2.7	4.7	125	167	8.1	4.8
8	6.0	2.9	2.0	2.2	1.6	1.4	3.1	4.5	133	178	8.0	5.5
9	5.7	2.7	1.9	2.2	1.6	1.4	3.3	4.2	119	196	7.8	5.0
10	5.8	2.7	1.9	2.1	1.6	1.4	3.2	5.0	93	211	7.8	4.6
11	5.7	2.7	1.8	2.1	1.7	1.4	3.0	6.0	88	226	7.8	4.5
12	5.6	2.7	1.8	2.1	1.8	1.4	2.3	6.0	111	217	7.5	4.4
13	5.3	2.8	1.8	2.1	1.8	1.4	2.7	6.0	139	201	6.9	4.0
14	5.2	2.8	1.8	1.9	1.6	1.4	2.9	7.2	162	212	6.9	4.0
15	5.4	2.8	1.8	1.9	1.5	1.5	3.0	9.6	185	200	6.9	3.4
16	5.4	2.8	1.7	2.0	1.5	1.7	2.7	10	209	187	6.0	2.4
17	4.8	2.8	1.7	1.9	1.5	1.9	2.9	12	232	183	5.4	2.4
18	5.5	2.8	1.7	1.8	1.5	1.9	2.9	11	268	169	5.3	2.7
19	5.5	2.8	1.7	1.8	1.5	2.1	2.8	11	271	154	5.1	2.9
20	5.0	2.8	1.7	1.8	1.4	1.9	2.7	11	267	143	5.1	3.1
21	3.7	2.8	1.7	1.8	1.5	1.9	2.7	12	267	132	5.1	3.7
22	3.3	2.8	1.7	1.8	1.5	1.9	2.7	14	235	121	5.3	3.6
23	3.1	2.8	1.7	1.8	1.5	1.9	2.7	15	219	109	5.2	3.6
24	2.9	2.7	1.7	1.8	1.5	1.9	3.1	14	197	101	5.3	3.6
25	3.0	2.7	1.7	1.8	1.5	1.9	2.9	15	181	90	5.1	3.6
26	3.2	2.6	1.7	1.8	1.5	1.9	2.8	17	178	30	5.1	3.4
27	3.0	2.6	1.7	1.9	1.5	1.8	3.5	18	176	37	5.1	3.4
28	3.0	2.5	1.7	1.9	1.5	1.8	3.4	18	188	20	5.1	3.5
29	2.9	2.5	1.7	1.9	---	1.7	3.6	21	189	11	5.0	3.9
30	2.9	2.4	1.7	1.9	---	1.8	3.5	25	173	11	4.9	3.8
31	2.8	---	1.7	1.9	---	1.7	---	25	---	19	5.0	---
TOTAL	142.1	82.8	57.7	60.0	44.3	50.8	83.3	327.2	4740	4203	280.3	117.7
MEAN	4.58	2.76	1.86	1.94	1.58	1.64	2.78	10.6	158	136	9.04	3.92
MAX	6.0	3.1	2.4	2.2	1.9	2.1	3.6	25	271	226	47	5.5
MIN	2.8	2.4	1.7	1.8	1.4	1.4	1.8	3.5	30	11	4.9	2.4
AC-FT	282	164	114	119	88	101	165	649	9400	8340	556	233

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1995, BY WATER YEAR (WY)

	4.80	4.27	3.47	3.05	2.72	2.63	5.36	30.2	75.9	26.3	7.61	5.04
MEAN	4.80	4.27	3.47	3.05	2.72	2.63	5.36	30.2	75.9	26.3	7.61	5.04
MAX	19.6	14.6	8.11	5.63	4.65	5.34	17.4	99.4	192	136	27.3	13.8
(WY)	1962	1962	1962	1962	1966	1950	1946	1936	1983	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1935 - 1995	
ANNUAL TOTAL	2648.0		10189.2			
ANNUAL MEAN	7.25		27.9		14.3	
HIGHEST ANNUAL MEAN					31.4	
LOWEST ANNUAL MEAN					2.55	
HIGHEST DAILY MEAN	109	Jun 1	271	Jun 19	345	Jun 29 1957
LOWEST DAILY MEAN	1.2	Mar 11	a 1.4	Feb 20	b .40	Sep 21 1960
ANNUAL SEVEN-DAY MINIMUM	1.3	Mar 5	1.4	Mar 1	.42	Sep 21 1988
INSTANTANEOUS PEAK FLOW			306	Jun 17	451	Jun 27 1983
INSTANTANEOUS PEAK STAGE			3.49	Jun 17	3.96	Jun 27 1983
ANNUAL RUNOFF (AC-FT)	5250		20210		10340	
10 PERCENT EXCEEDS	14		139		30	
50 PERCENT EXCEEDS	2.9		3.0		4.1	
90 PERCENT EXCEEDS	1.7		1.6		1.7	

a-Also occurred Mar 1-14.

b-Also occurred Oct 6, 1960, and Sep 24-26, 1988.

09032100 CABIN CREEK NEAR FRASER, CO

LOCATION.--Lat 39°59'09", long 105°44'40", in NW¹/4SE¹/4 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 mi².

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

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

REMARKS.--Estimated daily discharges: Oct. 23-26, Oct. 31 to Nov. 2, Nov. 9-11, and Nov. 13 to May 7. Records fair except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	2.0	1.5	1.0	.96	.80	1.2	2.0	1.3	54	16	1.5
2	1.8	1.8	1.4	.98	.92	.82	1.2	2.1	1.4	50	14	1.4
3	1.8	1.9	1.4	1.0	.90	.82	1.2	2.2	2.4	52	13	1.6
4	1.7	2.0	1.4	1.0	.90	.80	1.3	2.2	2.4	52	12	1.6
5	1.7	4.6	1.4	1.0	.88	.79	1.4	2.2	1.9	44	12	1.6
6	2.0	2.7	1.4	1.1	.85	.78	1.5	2.3	3.8	49	11	1.6
7	2.1	2.4	1.4	1.1	.88	.80	1.6	2.2	7.9	63	10	1.6
8	2.1	1.9	1.4	1.1	.90	.86	1.6	2.2	7.1	63	10	1.4
9	2.2	1.9	1.3	1.1	.92	.89	1.6	2.1	1.6	64	10	1.3
10	2.2	1.9	1.3	1.1	.94	.89	1.6	2.2	.97	68	9.5	1.2
11	2.2	1.9	1.3	1.1	.95	.89	1.6	2.6	1.8	71	8.9	1.2
12	2.2	1.8	1.3	1.1	.96	.88	1.6	2.7	6.4	71	8.8	1.2
13	2.1	2.2	1.3	1.0	.92	.88	1.6	2.7	11	66	8.4	1.1
14	2.1	2.6	1.3	1.0	.88	.91	1.7	3.3	40	66	8.3	1.1
15	2.2	2.3	1.3	.99	.85	.96	1.8	5.2	67	63	7.3	1.1
16	2.2	2.5	1.3	.98	.83	1.1	1.9	6.3	63	60	7.0	1.0
17	2.9	2.3	1.3	1.0	.81	1.2	1.8	6.7	75	59	6.6	1.4
18	2.8	2.1	1.3	1.0	.80	1.2	1.8	5.3	89	55	6.2	1.8
19	2.1	1.9	1.2	1.0	.80	1.2	1.8	4.0	83	48	4.3	1.8
20	2.1	1.8	1.2	.99	.84	1.2	1.7	2.2	81	44	1.5	1.9
21	2.2	1.7	1.2	.98	.89	1.2	1.9	2.1	81	40	1.3	2.0
22	2.5	1.7	1.2	.96	.89	1.2	1.8	2.2	71	36	1.2	1.8
23	2.1	1.6	1.2	.94	.88	1.2	1.8	2.1	62	30	1.1	1.9
24	2.3	1.6	1.2	.96	.87	1.2	1.9	2.0	56	27	1.1	2.2
25	2.5	1.5	1.2	1.0	.86	1.2	1.8	2.0	51	26	.97	2.4
26	2.5	1.5	1.1	1.0	.85	1.1	1.8	1.5	51	24	.95	2.1
27	2.1	1.5	1.1	1.0	.84	1.1	1.7	1.7	52	22	.83	1.7
28	2.0	1.6	1.1	1.0	.80	1.1	1.8	1.5	67	21	.83	1.6
29	2.1	1.6	1.0	1.0	---	1.1	2.1	1.5	67	19	.81	1.7
30	2.0	1.6	1.0	1.0	---	1.2	2.1	1.7	58	19	.67	1.6
31	2.0	---	1.0	1.0	---	1.2	---	1.5	---	18	1.2	---
TOTAL	66.6	60.4	39.0	31.48	24.57	31.47	50.2	82.5	1163.97	1444	195.76	47.4
MEAN	2.15	2.01	1.26	1.02	.88	1.02	1.67	2.66	38.8	46.6	6.31	1.58
MAX	2.9	4.6	1.5	1.1	.96	1.2	2.1	6.7	89	71	16	2.4
MIN	1.7	1.5	1.0	.94	.80	.78	1.2	1.5	.97	18	.67	1.0
AC-FT	132	120	77	62	49	62	100	164	2310	2860	388	94

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1995, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	2.44	1.96	1.42	1.18	1.01	1.06	1.57	8.69	30.3	14.3	4.51	2.93
MAX	4.54	2.93	2.12	1.74	1.40	1.40	2.74	24.1	58.3	46.6	8.05	5.12
(WY)	1986	1986	1986	1987	1992	1992	1994	1984	1984	1995	1984	1984
MIN	1.67	1.48	.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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1984 - 1995

ANNUAL TOTAL	1554.99	3237.35		
ANNUAL MEAN	4.26	8.87		
HIGHEST ANNUAL MEAN			11.0	1984
LOWEST ANNUAL MEAN			3.77	1989
HIGHEST DAILY MEAN	51	Jun 1	96	Jun 14 1984
LOWEST DAILY MEAN	.82	Apr 13	.67	Aug 30
ANNUAL SEVEN-DAY MINIMUM	.85	Apr 10	.80	Feb 28
INSTANTANEOUS PEAK FLOW			113	Jun 17
INSTANTANEOUS PEAK STAGE			2.39	Jun 17
ANNUAL RUNOFF (AC-FT)	3080	6420	4310	Jun 13 1984
10 PERCENT EXCEEDS	10	42	14	
50 PERCENT EXCEEDS	1.6	1.7	2.0	
90 PERCENT EXCEEDS	.92	.90	.96	

a-Maximum gage height, 2.39 ft, Jun 17, 1995.

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 mi².

WATER-DISCHARGE RECORDS
(Water-quality records published on pages 462-463 of this report)

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

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

REMARKS.--Estimated daily discharges: Nov. 22 to Mar. 30, and Aug. 17 to Sept. 21. Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, and diversions for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	83	74	71	71	77	104	383	480	1420	704	185
2	74	82	74	71	72	78	105	316	669	1310	650	160
3	75	83	74	70	74	76	121	152	850	1380	486	138
4	73	81	74	72	73	76	142	218	926	1410	416	137
5	68	71	73	71	74	77	166	269	997	1180	373	135
6	98	82	73	70	75	78	195	314	1150	1120	335	128
7	89	82	72	70	76	80	210	278	1430	1200	292	121
8	78	90	71	69	76	82	225	196	1540	1270	266	146
9	89	82	70	70	76	84	211	209	1820	1300	215	141
10	70	80	70	70	77	82	142	255	1380	1450	184	138
11	75	85	70	69	79	80	119	313	1030	1460	178	142
12	79	96	70	71	77	80	122	145	983	1490	179	142
13	76	90	69	72	77	80	144	144	1170	1460	187	140
14	70	87	68	72	78	79	179	145	1530	1570	191	137
15	75	70	67	71	79	80	143	184	1890	1460	207	138
16	78	51	68	68	78	81	133	187	2080	1300	206	134
17	85	83	69	70	78	82	143	178	2170	1220	198	130
18	96	75	69	71	77	80	137	165	2480	1200	178	136
19	94	95	68	69	78	79	140	115	2110	1140	161	138
20	92	91	67	68	77	80	132	108	1870	1300	158	145
21	88	80	68	70	79	79	123	150	1940	1650	157	148
22	86	80	68	70	78	78	123	142	1890	1750	176	127
23	86	80	69	71	78	79	124	147	1780	1760	210	128
24	84	80	70	71	77	80	131	174	1560	1580	220	124
25	81	78	71	72	78	80	138	243	1430	1320	198	126
26	80	77	71	72	77	80	158	223	1380	967	190	117
27	86	76	70	72	78	79	164	185	1400	835	169	118
28	87	76	69	71	78	78	182	156	1430	783	177	113
29	86	75	70	72	---	79	208	139	1600	745	181	129
30	86	74	70	72	---	79	329	160	1480	719	185	138
31	79	---	70	72	---	82	---	382	---	676	174	---
TOTAL	2549	2415	2176	2190	2145	2464	4693	6375	44445	39425	7801	4079
MEAN	82.2	80.5	70.2	70.6	76.6	79.5	156	206	1481	1272	252	136
MAX	98	96	74	72	79	84	329	383	2480	1760	704	185
MIN	68	51	67	68	71	76	104	108	480	676	157	113
AC-FT	5060	4790	4320	4340	4250	4890	9310	12640	88160	78200	15470	8090

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1995, BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	96.6	100	81.6	77.4	77.5	102	271	605	853	581	171	103		
MAX	152	188	120	110	110	260	827	2326	2997	2096	403	202		
(WY)	1985	1986	1985	1985	1985	1984	1984	1984	1984	1983	1983	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 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1982 - 1995

ANNUAL TOTAL	58197	120757		
ANNUAL MEAN	159	331		
HIGHEST ANNUAL MEAN			261	
LOWEST ANNUAL MEAN			726	1984
HIGHEST DAILY MEAN	696	Jun 2	122	1989
LOWEST DAILY MEAN	51	Nov 16	4930	May 25 1984
ANNUAL SEVEN-DAY MINIMUM	68	Dec 14	^a 42	Oct 1 1981
INSTANTANEOUS PEAK FLOW			51	Oct 1 1981
INSTANTANEOUS PEAK STAGE			2700	May 25 1984
ANNUAL RUNOFF (AC-FT)	115400	239500	5.71	7.34
10 PERCENT EXCEEDS	344	1300		188800
50 PERCENT EXCEEDS	96	104		534
90 PERCENT EXCEEDS	71	70		107
				68

a-Also occurred Oct 2, 1981.

09034900 BOBTAIL CREEK NEAR JONES PASS, CO

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

DRAINAGE AREA.--5.49 mi².

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

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

REMARKS.--Estimated daily discharges: Oct. 9-12 and Oct. 17 to May 3. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	1.5	.97	.95	1.0	1.2	1.2	.68	4.5	66	37	8.1
2	3.3	1.5	.95	.98	1.1	1.2	1.1	.66	5.6	61	33	7.7
3	3.0	1.3	.93	.96	1.1	1.2	1.1	.64	6.8	62	33	7.8
4	3.1	1.3	.94	.92	1.1	1.2	1.1	.61	9.2	50	33	8.0
5	3.0	1.2	.95	.91	1.2	1.3	1.1	.55	11	48	31	7.2
6	3.1	1.1	.94	.90	1.2	1.2	1.2	.57	13	61	29	7.8
7	3.1	1.1	.96	.92	1.1	1.2	1.2	.58	16	81	28	7.3
8	3.2	1.1	1.0	.96	1.1	1.2	1.3	.50	18	100	29	8.6
9	3.0	1.1	1.0	.97	1.1	1.2	1.2	.50	19	119	28	8.3
10	2.9	1.1	.99	1.0	1.0	1.2	1.1	.50	14	120	27	6.6
11	2.8	1.2	.96	1.0	1.1	1.2	1.0	.50	16	128	27	7.7
12	2.7	1.1	.95	.96	1.1	1.2	1.0	.50	32	135	26	6.4
13	2.6	1.0	.96	1.0	1.2	1.2	1.1	.47	56	114	22	6.1
14	2.6	1.0	.99	1.0	1.2	1.2	1.1	.48	72	106	19	5.4
15	2.5	.96	1.0	1.1	1.2	1.1	1.0	.52	90	98	17	5.1
16	2.5	.94	.98	1.2	1.1	1.2	1.0	.51	107	88	15	4.8
17	2.5	.93	.99	1.1	1.1	1.2	.99	.50	119	87	14	4.6
18	2.4	.92	1.0	.98	1.1	1.3	.96	.53	103	87	13	5.3
19	2.3	.94	1.0	.94	1.2	1.3	.86	.51	90	74	13	4.9
20	2.1	.95	1.0	1.0	1.2	1.2	.84	.57	94	69	13	5.5
21	1.9	.96	1.0	1.1	1.2	1.2	.83	.61	107	64	15	5.6
22	2.2	.97	1.0	1.0	1.2	1.3	.78	1.4	107	63	17	5.8
23	2.3	.98	1.0	.96	1.2	1.2	.75	3.3	84	57	15	5.0
24	2.4	1.0	1.0	.98	1.2	1.3	.74	4.5	72	53	13	4.5
25	2.4	1.0	.99	.99	1.2	1.2	.73	4.4	72	54	14	5.1
26	2.5	.97	.96	1.0	1.2	1.2	.71	4.3	78	53	12	4.9
27	2.4	.95	.95	1.0	1.2	1.1	.68	4.1	87	52	11	4.9
28	2.3	.96	.94	1.0	1.2	1.2	.67	4.0	89	50	10	5.4
29	2.1	.98	.96	.96	---	1.2	.69	3.8	79	51	9.6	6.3
30	1.9	.99	.98	.98	---	1.2	.68	3.6	66	47	9.0	5.6
31	1.7	---	1.0	.99	---	1.2	---	3.8	---	42	8.6	---
TOTAL	80.0	32.00	30.24	30.71	32.1	37.5	28.71	48.69	1737.1	2340	621.2	186.3
MEAN	2.58	1.07	.98	.99	1.15	1.21	.96	1.57	57.9	75.5	20.0	6.21
MAX	3.3	1.5	1.0	1.2	1.2	1.3	1.3	4.5	119	135	37	8.6
MIN	1.7	.92	.93	.90	1.0	1.1	.67	.47	4.5	42	8.6	4.5
AC-FT	159	63	60	61	64	74	57	97	3450	4640	1230	370

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1995, BY WATER YEAR (WY)

	MEAN	2.89	1.68	1.09	.87	.78	.77	1.48	14.0	56.2	30.7	9.66	4.62
MAX	5.49	3.33	1.79	1.24	1.15	1.21	4.30	28.8	82.0	75.5	25.5	9.74	
(WY)	1985	1984	1983	1983	1995	1995	1969	1969	1986	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1966 - 1995

ANNUAL TOTAL	3456.24	5204.55	
ANNUAL MEAN	9.47	14.3	10.4
HIGHEST ANNUAL MEAN			15.5
LOWEST ANNUAL MEAN			6.28
HIGHEST DAILY MEAN	80	135	146
LOWEST DAILY MEAN	.68	.47	.44
ANNUAL SEVEN-DAY MINIMUM	.70	.49	.46
INSTANTANEOUS PEAK FLOW		196	290
INSTANTANEOUS PEAK STAGE		4.87	5.19
ANNUAL RUNOFF (AC-FT)	6860	10320	7540
10 PERCENT EXCEEDS	38	61	33
50 PERCENT EXCEEDS	2.4	1.2	1.9
90 PERCENT EXCEEDS	.70	.92	.70

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 mi².

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

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.--Estimated daily discharges: Oct. 26 to May 11. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	7.2	4.3	2.9	2.5	2.6	2.8	2.9	18	186	82	18
2	8.7	7.2	4.3	2.9	2.5	2.6	2.8	3.0	28	167	77	18
3	8.2	7.2	4.3	2.9	2.5	2.6	2.8	3.0	41	173	73	18
4	8.4	6.6	4.2	2.9	2.5	2.5	2.8	2.9	54	143	72	17
5	8.4	6.0	4.2	2.8	2.5	2.4	2.8	3.2	69	135	66	17
6	8.6	6.4	4.2	2.7	2.6	2.5	2.8	3.8	89	156	61	17
7	8.8	6.6	4.0	2.7	2.6	2.5	2.8	3.8	102	201	57	17
8	8.8	6.9	3.9	2.7	2.6	2.5	2.8	3.7	96	248	55	19
9	8.6	6.5	3.7	2.7	2.6	2.5	2.8	3.5	68	291	53	16
10	8.3	5.6	3.4	2.7	2.6	2.5	2.8	3.5	51	304	50	16
11	8.2	5.8	3.4	2.6	2.5	2.5	2.8	4.2	54	331	48	14
12	7.8	6.0	3.4	2.6	2.5	2.6	2.8	5.3	93	395	47	9.5
13	7.4	5.4	3.4	2.6	2.5	2.6	2.8	5.2	146	337	44	6.2
14	7.3	5.0	3.2	2.6	2.5	2.6	2.8	6.0	198	323	41	4.5
15	7.6	4.1	3.1	2.6	2.5	2.6	2.8	8.8	235	288	37	2.4
16	7.2	4.5	3.1	2.6	2.5	2.7	2.8	10	282	255	33	2.3
17	7.2	4.5	3.1	2.6	2.5	2.8	2.8	7.5	352	243	31	2.2
18	8.6	4.5	3.1	2.6	2.5	2.8	2.8	6.4	321	234	29	2.3
19	7.4	4.5	3.1	2.6	2.5	2.8	2.8	6.4	271	205	29	2.3
20	9.0	4.5	3.0	2.6	2.5	2.8	2.8	12	283	192	31	2.5
21	7.5	4.4	3.0	2.6	2.5	2.8	2.8	12	314	174	39	9.5
22	7.8	4.3	3.0	2.6	2.5	2.8	2.8	13	297	168	41	13
23	7.7	4.2	3.0	2.6	2.5	2.8	2.8	13	256	153	33	13
24	7.8	4.1	3.0	2.5	2.6	2.8	2.8	17	219	137	29	13
25	7.6	4.1	3.0	2.5	2.6	2.7	2.8	17	209	131	29	13
26	11	4.1	3.0	2.5	2.6	2.7	2.8	17	227	124	26	13
27	9.6	4.2	3.0	2.5	2.6	2.7	2.8	16	235	115	25	13
28	8.0	4.2	3.0	2.5	2.6	2.7	2.9	15	233	107	23	14
29	7.6	4.2	3.0	2.5	---	2.7	3.0	15	218	102	22	17
30	7.8	4.3	3.0	2.5	---	2.7	3.1	16	183	96	21	15
31	7.0	---	3.0	2.5	---	2.8	---	16	---	90	20	---
TOTAL	252.4	157.1	105.4	81.7	71.0	82.2	84.6	272.1	5242	6204	1324	354.7
MEAN	8.14	5.24	3.40	2.64	2.54	2.65	2.82	8.78	175	200	42.7	11.8
MAX	11	7.2	4.3	2.9	2.6	2.8	3.1	17	352	395	82	19
MIN	7.0	4.1	3.0	2.5	2.5	2.4	2.8	2.9	18	90	20	2.2
AC-FT	501	312	209	162	141	163	168	540	10400	12310	2630	704

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 1995, BY WATER YEAR (WY)

	MEAN	5.24	3.31	2.26	1.90	1.84	1.89	3.75	29.7	114	60.4	12.3	7.22
MAX	16.3	8.07	4.80	4.30	3.90	4.99	10.6	89.2	213	200	44.5	18.4	
(WY)	1985	1938	1939	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1933 - 1995

ANNUAL TOTAL	8793.4	14231.2	
ANNUAL MEAN	24.1	39.0	a26.3
HIGHEST ANNUAL MEAN			39.0
LOWEST ANNUAL MEAN			4.11
HIGHEST DAILY MEAN	197	395	395
LOWEST DAILY MEAN	b3.0	2.2	.20
ANNUAL SEVEN-DAY MINIMUM	3.0	2.5	.27
INSTANTANEOUS PEAK FLOW		c516	c516
INSTANTANEOUS PEAK STAGE		5.64	d5.64
ANNUAL RUNOFF (AC-FT)	17440	28230	a19050
10 PERCENT EXCEEDS	94	160	67
50 PERCENT EXCEEDS	7.7	4.5	3.4
90 PERCENT EXCEEDS	3.4	2.5	.60

a-Including diversions to August P. Gumlick Tunnel.

b-Also occurred Dec 21-31.

c-From rating curve extended above 250 ft³/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 NW¹/4NW¹/4 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 mi².

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.--Estimated daily discharges: Oct. 1 to May 4. Records fair except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	12	12	10	9.0	8.4	8.6	9.1	48	330	144	41
2	15	12	12	10	9.0	8.4	8.6	9.2	71	303	129	40
3	14	12	12	10	9.0	8.4	8.6	9.4	95	317	119	40
4	13	12	12	10	9.0	8.4	8.4	11	117	284	114	38
5	14	12	13	10	9.4	7.8	8.3	11	145	265	106	39
6	15	12	12	10	9.4	8.2	8.6	12	176	279	97	37
7	15	11	12	10	9.4	8.2	8.6	12	179	337	89	38
8	15	11	12	10	9.0	8.2	8.6	11	180	404	84	42
9	15	11	12	10	9.4	8.2	8.6	11	151	446	81	39
10	15	11	11	10	9.4	8.2	8.6	11	115	490	78	36
11	14	11	11	9.6	9.0	8.6	8.4	13	109	512	76	36
12	14	10	11	9.6	9.4	8.6	8.9	13	161	555	72	31
13	13	10	12	9.6	9.0	8.6	8.9	13	227	480	70	22
14	13	10	11	9.6	9.0	8.6	8.6	17	305	475	67	20
15	14	10	10	9.6	9.0	9.0	8.6	26	354	418	63	15
16	15	10	11	9.6	8.3	9.0	9.0	29	378	379	60	15
17	14	10	11	9.6	8.6	9.2	9.0	29	486	362	59	14
18	14	10	11	9.6	8.6	9.0	9.0	19	497	350	55	14
19	13	10	11	9.6	8.6	9.0	9.0	21	411	311	54	14
20	13	11	11	9.6	8.6	9.0	9.0	28	431	292	55	15
21	13	11	11	9.6	8.6	9.0	8.8	33	449	273	62	21
22	13	11	11	9.6	8.6	9.0	8.4	38	464	264	82	26
23	13	11	11	9.0	8.6	9.0	8.4	40	420	249	61	30
24	13	11	11	9.0	8.4	9.0	8.4	42	358	232	56	30
25	13	11	11	9.0	8.4	8.6	8.4	42	339	225	55	28
26	13	11	11	9.0	8.4	8.6	8.5	39	365	211	52	30
27	13	11	11	9.0	8.4	8.6	8.7	39	379	198	49	30
28	13	11	11	9.0	8.4	8.6	8.8	33	381	187	46	31
29	13	12	11	9.0	---	8.6	9.0	31	368	179	46	39
30	13	12	11	9.0	---	9.0	9.1	38	321	169	44	38
31	12	---	11	9.0	---	9.0	---	40	---	159	42	---
TOTAL	425	330	351	296.2	247.9	268.0	260.4	729.7	8480	9935	2267	889
MEAN	13.7	11.0	11.3	9.55	8.85	8.65	8.68	23.5	283	320	73.1	29.6
MAX	15	12	13	10	9.4	9.2	9.1	42	497	555	144	42
MIN	12	10	10	9.0	8.3	7.8	8.3	9.1	48	159	42	14
AC-FT	843	655	696	588	492	532	517	1450	16820	19710	4500	1760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1995, BY WATER YEAR (WY)

	MEAN	11.4	8.62	7.19	6.06	5.51	5.93	10.6	54.9	198	110	27.3	15.8
MAX	26.2	15.2	11.9	9.55	8.85	9.55	23.1	121	319	320	75.5	40.9	
(WY)	1985	1985	1984	1995	1995	1994	1994	1984	1984	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1966 - 1995

ANNUAL TOTAL	14630.4	24479.2	
ANNUAL MEAN	40.1	67.1	38.5
HIGHEST ANNUAL MEAN			71.3
LOWEST ANNUAL MEAN			17.6
HIGHEST DAILY MEAN	269	555	555
LOWEST DAILY MEAN	7.6	7.8	2.7
ANNUAL SEVEN-DAY MINIMUM	7.7	8.2	2.8
INSTANTANEOUS PEAK FLOW		751	751
INSTANTANEOUS PEAK STAGE		6.94	6.94
ANNUAL RUNOFF (AC-FT)	29020	48550	27890
10 PERCENT EXCEEDS	154	275	111
50 PERCENT EXCEEDS	15	12	10
90 PERCENT EXCEEDS	8.0	8.6	4.8

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°48'20", long 106°01'05", in NE¹/4SW¹/4 sec.9, T.3 S., R.77 W., Grand County, Hydrologic Unit 14010001, on left bank 0.6 mi upstream from mouth and 1.4 mi southeast of Leal.

DRAINAGE AREA.--8.21 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 9,090 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 14 to Apr. 4, Apr. 10-12, Apr. 15 to May 1, and Sept. 11-13. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	3.1	2.4	2.1	1.9	1.9	2.0	2.1	12	57	20	7.1
2	3.0	2.7	2.4	2.1	1.9	1.9	2.0	2.8	15	53	19	7.0
3	2.7	2.6	2.4	2.1	1.9	1.9	2.0	2.7	18	52	19	7.1
4	2.8	2.3	2.4	2.1	1.9	1.9	2.0	2.7	20	48	18	6.9
5	2.9	2.3	2.4	2.1	1.9	1.9	1.7	3.0	25	46	17	6.4
6	3.1	3.0	2.3	2.1	1.9	1.9	1.7	3.1	28	51	16	6.5
7	3.1	2.8	2.3	2.1	1.9	1.9	2.0	3.0	30	64	15	6.5
8	3.2	2.6	2.3	2.1	1.9	1.9	2.4	2.9	31	70	15	8.5
9	3.1	2.5	2.3	2.1	1.9	1.9	2.4	2.7	28	81	15	7.7
10	3.1	2.6	2.3	2.1	1.9	1.9	1.9	3.1	23	87	14	6.7
11	3.0	2.6	2.2	2.0	1.9	1.9	1.7	3.6	24	85	14	6.6
12	2.9	2.8	2.2	2.0	1.9	1.9	1.8	3.4	31	85	13	6.5
13	2.7	2.6	2.2	2.0	1.9	1.9	2.0	3.3	40	81	12	6.4
14	2.8	2.4	2.2	2.1	1.9	1.9	2.1	4.4	49	81	12	6.4
15	3.1	2.5	2.3	2.1	1.9	1.9	1.7	7.7	61	74	11	6.2
16	3.0	2.4	2.4	2.0	1.9	2.0	1.8	9.4	68	67	11	5.9
17	2.5	2.3	2.3	2.0	1.9	2.0	1.8	8.2	97	57	11	5.8
18	3.5	2.3	2.3	2.0	1.9	2.0	1.7	6.9	93	52	10	6.5
19	3.0	2.3	2.3	2.0	1.9	2.0	1.7	7.1	83	47	9.7	6.2
20	2.9	2.3	2.3	1.9	1.9	2.0	1.7	7.3	82	44	9.3	6.9
21	3.1	2.3	2.3	1.9	1.9	2.0	1.5	7.9	86	39	11	7.2
22	3.1	2.3	2.3	1.9	1.9	2.0	1.5	10	83	39	14	6.6
23	3.0	2.3	2.3	1.9	1.9	2.0	1.5	12	74	35	11	6.3
24	2.9	2.3	2.3	1.9	1.9	2.0	1.5	10	64	33	11	6.3
25	2.8	2.3	2.3	1.9	1.9	2.0	1.5	9.2	60	31	9.9	6.1
26	2.9	2.3	2.3	1.9	1.9	2.0	1.5	9.0	63	31	9.2	6.0
27	2.9	2.3	2.3	1.9	1.9	2.0	1.7	8.7	64	30	9.0	5.9
28	2.8	2.3	2.3	1.9	1.9	2.0	1.8	7.9	63	27	8.6	6.2
29	2.7	2.3	2.3	1.9	---	2.0	1.7	8.0	62	26	8.3	7.4
30	2.6	2.3	2.2	1.9	---	2.0	1.6	8.8	58	24	8.0	7.2
31	2.1	---	2.2	1.9	---	2.0	---	9.4	---	22	7.4	---
TOTAL	90.2	74.0	71.3	62.0	53.2	60.5	53.9	190.3	1535	1619	388.4	199.0
MEAN	2.91	2.47	2.30	2.00	1.90	1.95	1.80	6.14	51.2	52.2	12.5	6.63
MAX	3.5	3.1	2.4	2.1	1.9	2.0	2.4	12	97	87	20	8.5
MIN	2.1	2.3	2.2	1.9	1.9	1.9	1.5	2.1	12	22	7.4	5.8
AC-FT	179	147	141	123	106	120	107	377	3040	3210	770	395

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1995, BY WATER YEAR (WY)

	3.98	3.04	2.49	2.12	1.94	1.96	2.84	14.0	47.5	22.8	7.38	4.67
MEAN	3.98	3.04	2.49	2.12	1.94	1.96	2.84	14.0	47.5	22.8	7.38	4.67
MAX	7.86	5.52	4.33	3.00	3.00	2.90	6.03	26.3	85.1	91.6	20.2	9.64
(WY)	1985	1985	1985	1985	1985	1985	1985	1974	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1966 - 1995

ANNUAL TOTAL	2350.1	4396.8	
ANNUAL MEAN	6.44	12.0	9.56
HIGHEST ANNUAL MEAN			18.1
LOWEST ANNUAL MEAN			5.64
HIGHEST DAILY MEAN	42 Jun 1	97 Jun 17	175 Jun 25 1983
LOWEST DAILY MEAN	1.6 Feb 10	^a 1.5 Apr 21	1.0 Jan 12 1975
ANNUAL SEVEN-DAY MINIMUM	1.7 Feb 9	1.5 Apr 20	1.1 Feb 24 1975
INSTANTANEOUS PEAK FLOW		165 Jun 17	^b 241 Jun 30 1984
INSTANTANEOUS PEAK STAGE		3.96 Jun 17	4.30 Jun 30 1984
ANNUAL RUNOFF (AC-FT)	4660	8720	6930
10 PERCENT EXCEEDS	22	45	26
50 PERCENT EXCEEDS	2.7	2.7	3.3
90 PERCENT EXCEEDS	1.9	1.9	1.8

a-Also occurred Apr 22-26.

b-From rating curve extended above 100 ft³/s.

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 mi².

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.--Estimated daily discharges: Oct. 19-26, Nov. 14 to May 10. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	10	9.1	8.8	7.4	7.1	5.6	7.5	36	222	80	27
2	13	9.8	9.1	8.8	7.4	7.1	5.6	7.7	53	200	74	26
3	12	9.8	9.1	8.8	7.4	7.0	5.6	8.0	70	211	70	27
4	12	9.6	9.1	8.7	7.4	7.0	5.5	8.2	82	192	69	25
5	13	13	9.1	8.7	7.4	7.0	5.6	8.4	104	178	65	25
6	13	12	9.0	8.6	7.4	6.9	5.6	8.6	124	187	61	25
7	14	9.7	9.0	8.6	7.4	6.8	5.6	8.8	133	218	58	25
8	14	9.6	9.0	8.6	7.4	6.8	5.7	9.0	141	255	54	29
9	13	11	9.0	8.6	7.4	6.8	5.8	9.2	133	278	50	25
10	13	9.7	9.0	8.6	7.4	6.6	5.8	9.4	97	302	48	24
11	13	9.4	9.0	8.5	7.3	6.6	5.8	11	102	304	46	27
12	13	9.4	9.0	8.4	7.3	6.5	5.9	11	147	322	44	26
13	12	9.2	9.0	8.3	7.3	6.4	6.0	11	199	285	42	23
14	12	9.2	9.0	8.2	7.3	6.4	6.0	12	248	275	41	21
15	12	9.2	9.0	8.1	7.3	6.4	6.1	17	291	250	39	20
16	12	9.2	8.9	8.0	7.2	6.3	6.2	22	328	228	36	20
17	12	9.2	8.9	7.9	7.2	6.2	6.3	22	404	218	35	19
18	13	9.2	8.9	7.8	7.2	6.2	6.4	20	372	208	35	21
19	13	9.2	8.9	7.8	7.2	6.1	6.5	21	312	192	37	21
20	10	9.2	8.9	7.8	7.2	6.0	6.6	23	317	177	36	22
21	11	9.2	8.9	7.7	7.2	6.0	6.6	24	340	162	40	24
22	11	9.2	8.9	7.7	7.2	5.9	6.7	30	332	153	50	22
23	11	9.2	8.9	7.5	7.2	5.9	6.8	35	295	142	40	21
24	11	9.2	8.9	7.6	7.2	5.8	6.9	32	261	130	38	20
25	11	9.2	8.9	7.6	7.2	5.8	6.9	29	241	120	39	20
26	11	9.2	8.9	7.5	7.1	5.8	7.0	28	246	113	35	20
27	10	9.2	8.9	7.5	7.1	5.7	7.1	28	260	106	33	20
28	10	9.2	8.9	7.4	7.1	5.7	7.2	26	259	99	32	21
29	10	9.2	8.9	7.4	---	5.6	7.3	26	250	95	31	26
30	10	9.2	8.9	7.4	---	5.6	7.4	28	217	91	29	25
31	12	---	8.9	7.4	---	5.6	---	29	---	86	28	---
TOTAL	370	288.6	277.9	250.3	203.8	195.6	188.1	569.8	6394	5999	1415	697
MEAN	11.9	9.62	8.96	8.07	7.28	6.31	6.27	18.4	213	194	45.6	23.2
MAX	14	13	9.1	8.8	7.4	7.1	7.4	35	404	322	80	29
MIN	10	9.2	8.9	7.4	7.1	5.6	5.5	7.5	36	86	28	19
AC-FT	734	572	551	496	404	388	373	1130	12680	11900	2810	1380

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1995, BY WATER YEAR (WY)

	MEAN	13.3	10.5	8.95	7.37	6.96	7.01	11.3	54.5	156	74.2	26.3	16.7
MAX	24.0	15.6	21.1	10.3	9.55	9.77	25.0	99.3	243	215	63.3	32.3	
(WY)	1985	1985	1986	1983	1983	1981	1971	1984	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1966 - 1995

ANNUAL TOTAL	9508.6	16849.1	
ANNUAL MEAN	26.1	46.2	32.8
HIGHEST ANNUAL MEAN			54.8
LOWEST ANNUAL MEAN			20.2
HIGHEST DAILY MEAN	^a 194	Jun 4	404
LOWEST DAILY MEAN	5.4	Mar 31	5.5
ANNUAL SEVEN-DAY MINIMUM	5.7	Feb 9	5.6
INSTANTANEOUS PEAK FLOW			^b 574
INSTANTANEOUS PEAK STAGE			4.17
ANNUAL RUNOFF (AC-FT)	18860	33420	23760
10 PERCENT EXCEEDS	79	182	95
50 PERCENT EXCEEDS	12	9.6	12
90 PERCENT EXCEEDS	6.1	6.4	6.4

a-Also occurred Jun 5.

b-From rating curve extended above 256 ft³/s.

c-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 mi².

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 Colo. 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.--Estimated daily discharges: Nov. 1-4, 6-23, Dec. 6-9, 14, 15, 19, 20, Jan. 1-4, 15-17, 21-23, 27-30, Feb. 14, 15, Mar. 6-8, 18, 19, 21, 22, 24, 26, 28, and Apr. 6-10, 12-18. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	27	28	23	20	21	22	27	157	753	315	84
2	37	27	28	23	20	20	22	30	206	683	291	82
3	36	27	28	22	20	21	21	31	256	710	271	82
4	35	27	28	22	20	21	20	30	308	671	262	78
5	37	27	29	22	21	19	23	35	358	618	248	78
6	39	27	28	22	21	20	22	39	419	637	229	75
7	39	26	27	22	21	20	23	39	464	719	214	76
8	39	26	26	22	20	20	23	37	503	824	205	91
9	38	26	26	22	21	20	23	34	484	913	195	82
10	38	26	25	22	21	20	23	37	376	962	186	75
11	37	26	24	21	20	21	22	46	356	999	178	82
12	37	25	24	21	21	21	24	48	467	1080	171	74
13	35	25	25	21	20	21	24	47	638	991	165	61
14	35	25	24	22	20	21	23	56	787	991	163	57
15	37	25	22	21	20	22	23	83	907	877	152	52
16	38	24	24	21	19	22	24	101	982	817	140	50
17	35	25	24	21	20	23	24	105	1160	774	134	48
18	35	25	24	21	20	22	24	89	1120	746	125	50
19	35	25	24	21	20	22	24	93	905	684	119	51
20	31	26	24	21	20	22	24	103	920	647	119	54
21	33	26	24	21	20	22	23	113	969	608	138	63
22	33	26	24	21	20	22	22	133	990	580	182	63
23	32	26	24	20	21	22	23	145	886	541	140	65
24	32	26	24	20	21	22	22	142	795	496	128	64
25	32	26	24	20	21	21	22	136	753	469	125	62
26	33	27	24	20	21	21	23	126	780	448	115	63
27	35	27	24	20	21	21	24	124	845	422	107	63
28	35	27	24	20	21	21	27	116	844	399	101	65
29	34	28	24	20	---	21	27	115	839	382	96	80
30	35	28	24	20	---	23	28	134	744	362	91	83
31	27	---	24	20	---	23	---	144	---	342	87	---
TOTAL	1091	784	776	655	571	658	699	2538	20218	21145	5192	2053
MEAN	35.2	26.1	25.0	21.1	20.4	21.2	23.3	81.9	674	682	167	68.4
MAX	39	28	29	23	21	23	28	145	1160	1080	315	91
MIN	27	24	22	20	19	19	20	27	157	342	87	48
AC-FT ^a	2160	1560	1540	1300	1130	1310	1390	5030	40100	41940	10300	4070
a	0	0	0	0	0	0	0	26	0	0	0	246

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1995, BY WATER YEAR (WY)

	MEAN	37.6	29.5	23.8	20.6	19.1	19.0	36.3	173	481	219	70.5	43.9
MAX	102	52.6	35.1	28.6	26.4	24.5	24.5	91.3	386	966	765	198	98.4
(WY)	1962	1962	1985	1985	1962	1946	1946	1936	1938	1983	1983	1961	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	24.2
(WY)	1964	1964	1964	1964	1964	1964	1944	1968	1954	1934	1954	1964	1964

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1934 - 1995

ANNUAL TOTAL	31526	56380	
ANNUAL MEAN	86.4	^b 154	
HIGHEST ANNUAL MEAN			^b 105
LOWEST ANNUAL MEAN			^c 176
HIGHEST DAILY MEAN	601	Jun 4	1430
LOWEST DAILY MEAN	^d 17	Mar 3	^e 19
ANNUAL SEVEN-DAY MINIMUM	18	Mar 2	20
INSTANTANEOUS PEAK FLOW			1510
INSTANTANEOUS PEAK STAGE			4.29
ANNUAL RUNOFF (AC-FT)	62530	^b 111800	^b 76070
10 PERCENT EXCEEDS	315	637	272
50 PERCENT EXCEEDS	35	29	33
90 PERCENT EXCEEDS	22	21	18

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 Mar 4 and 5.

e-Also occurred Mar 5.

f-Also occurred at times in 1963, 1964, and 1967.

g-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 SW¹/4SW¹/4 sec.31, T.1 N., R.78 W., Grand County, Hydrologic Unit 14010001, on left bank 30 ft downstream from bridge on State Highway 286, 3.7 mi downstream from Skylark Creek, 3.9 mi south of Parshall, and 4.2 mi upstream from Williams Fork Reservoir Dam.

DRAINAGE AREA.--184 mi².

PERIOD OF RECORD.--July 1904 to September 1924, June 1933 to current year. Records since May 10, 1940, equivalent to earlier records if diversion to August P. Gumlick Tunnel is added to flow past station. Published as "near (Hot) Sulphur Springs" 1904-12 and as Williams River near Parshall June 1933 to September 1958. Water-quality data available, April 1986 to September 1987.

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

GAGE.--Water-stage recorder. 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.--Estimated daily discharges: Nov. 14 to Mar. 20, Aug. 19-21, and Aug. 26 to Sept. 12. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	44	36	27	25	30	35	54	256	838	346	88
2	48	45	36	27	25	31	32	59	315	764	315	86
3	46	45	37	27	25	32	32	69	364	787	289	86
4	44	42	37	26	25	33	33	60	405	782	274	84
5	44	39	38	26	25	34	37	71	469	673	262	84
6	46	46	37	26	25	34	41	84	546	665	242	84
7	46	44	37	25	26	35	45	85	577	729	222	84
8	47	44	36	25	25	36	52	82	611	818	210	84
9	46	41	35	25	25	37	53	74	658	874	198	82
10	46	42	34	25	25	38	45	73	512	951	191	82
11	42	45	33	25	25	39	41	96	469	953	183	82
12	42	47	32	26	25	39	41	107	526	997	177	82
13	42	44	32	26	25	40	43	104	652	945	171	59
14	42	42	31	26	25	41	50	109	810	977	168	50
15	43	42	31	27	25	41	45	148	971	869	167	45
16	43	41	31	28	25	42	42	177	1060	794	148	41
17	46	41	30	29	24	43	45	177	1220	742	141	38
18	47	40	29	29	25	42	42	157	1370	732	110	39
19	48	40	27	28	25	43	43	161	1270	676	98	43
20	45	39	25	28	26	43	42	167	1230	641	100	39
21	46	38	26	27	26	40	40	175	1220	616	99	52
22	46	38	27	26	27	44	38	205	1180	585	160	48
23	44	37	27	26	27	42	41	225	1090	534	123	49
24	43	36	27	25	28	44	39	218	973	481	114	47
25	42	35	26	25	28	40	38	213	876	441	111	45
26	42	35	26	25	28	37	41	198	854	430	104	45
27	45	34	26	25	29	39	41	192	888	400	100	43
28	46	35	27	25	30	35	48	176	879	370	100	49
29	44	33	27	25	---	34	53	178	910	343	96	80
30	45	35	27	25	---	34	59	203	830	327	92	96
31	37	---	27	25	---	38	---	234	---	355	90	---
TOTAL	1379	1209	957	810	724	1180	1277	4331	23991	21089	5201	1916
MEAN	44.5	40.3	30.9	26.1	25.9	38.1	42.6	140	800	680	168	63.9
MAX	48	47	38	29	30	44	59	234	1370	997	346	96
MIN	37	33	25	25	24	30	32	54	256	327	90	38
AC-FT ^a	2740	2400	1900	1610	1440	2340	2530	8590	47590	41830	10320	3800
	0	0	0	0	0	0	0	26	0	0	0	246

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 1995, BY WATER YEAR (WY)

	MEAN	60.4	51.3	42.2	37.0	35.1	39.6	80.5	266	561	223	89.6	64.1
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1905 - 1995

ANNUAL TOTAL	26668	64064	
ANNUAL MEAN	73.1	^b 176	^b 134
HIGHEST ANNUAL MEAN			^c 248
LOWEST ANNUAL MEAN			^c 38.8
HIGHEST DAILY MEAN	414	Jun 2	2520
LOWEST DAILY MEAN	^d 22	Aug 11	^e 4.8
ANNUAL SEVEN-DAY MINIMUM	22	Aug 22	5.1
INSTANTANEOUS PEAK FLOW			^f 2620
INSTANTANEOUS PEAK STAGE			6.05
ANNUAL RUNOFF (AC-FT)	52900	^b 127100	^b 97080
10 PERCENT EXCEEDS	241	661	345
50 PERCENT EXCEEDS	32	44	53
90 PERCENT EXCEEDS	23	26	30

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 Aug 12-14, 17-19, and Aug 22 to Sep 1.

e-Also occurred May 8-10, 1972.

f-Site and datum then in use, from rating curve extended above 1400 ft³/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 mi².

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, 97,590 acre-ft, July 13, elevation, 7,811.47 ft; minimum, 63,630 acre-ft, June 1, elevation, 7,786.16 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	7,792.22	69,990	-
Oct. 31.	7,789.05	66,060	-3,930
Nov. 30.	7,789.74	66,900	+840
Dec. 31.	7,790.55	67,900	+1,000
CAL YR 1994.			-8,390
Jan. 31.	7,791.68	69,310	+1,410
Feb. 28.	7,792.94	70,910	+1,600
Mar. 31.	7,793.17	71,200	+290
Apr. 30.	7,789.80	66,980	-4,220
May 31.	7,786.25	62,740	-4,240
June 30.	7,806.74	90,120	+27,380
July 31.	7,811.00	96,820	+6,700
Aug. 31.	7,810.34	95,750	-1,070
Sept. 30.	7,809.37	94,200	-1,550
WTR YR 1995.			+24,210

LOCATION.--Lat 40°02'07", long 106°12'17", in NW¹/4SE¹/4 sec.23, T.1 N., R.79 W., Grand County, Hydrologic Unit 14010001, on left bank 400 ft downstream from Williams Fork Reservoir, 2.1 mi upstream from mouth, and 2.1 mi southwest of Parshall.

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.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1995, BY WATER YEAR (WY)

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1949 - 1995
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a-Adjusted for storage at Williams Fork Reservoir.
b-Also occurred Feb 15 to Mar 5.
c-No flow for part of Apr 29, 1975.
d-Site and datum then in use, from rating curve extended above 1500 ft³/s.

09041000 MUDDY CREEK NEAR KREMMLING, CO

LOCATION.--Lat 40°17'37", long 106°28'59", in NE¹/4SE¹/4 sec. 20, T.4 N., R.81 W., Grand County, Hydrologic Unit 14010001, on right bank 0.2 mile upstream from Lindsey Creek, 0.5 mile upstream from bridge on U.S. Highway 40, 3 miles downstream from Albert Creek, and 17 miles northwest of Kremmling.

DRAINAGE AREA.--87.4 mi².

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 miles upstream at different datum. Prior to Oct. 1, 1993, at site 100 feet upstream at different datum.

REMARKS.--Estimated daily discharges: Nov. 9 to April 26. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	5.3	3.8	6.1	8.5	8.9	24	68	393	116	19	6.5
2	4.7	4.8	3.9	6.3	8.5	9.1	26	80	436	121	18	6.3
3	5.4	5.5	4.0	6.4	8.4	9.2	27	83	454	146	18	6.3
4	4.4	5.3	3.9	6.5	8.4	9.4	29	68	468	186	18	6.1
5	3.7	5.0	4.0	6.6	8.3	9.5	33	78	490	139	16	6.1
6	4.9	5.0	4.2	6.7	8.4	9.5	38	84	517	108	15	6.6
7	7.5	5.1	4.4	6.8	8.3	9.5	50	81	495	97	14	7.2
8	6.0	6.2	4.6	6.9	8.3	9.8	59	78	448	86	15	7.9
9	5.5	6.1	4.8	7.1	8.4	9.9	53	77	433	83	14	7.8
10	5.5	5.8	4.8	7.1	8.4	10	50	103	357	68	13	7.5
11	6.1	5.7	5.0	7.1	8.4	10	40	142	323	52	13	7.4
12	6.1	5.4	5.0	7.2	8.4	11	43	204	374	48	14	6.9
13	5.8	3.9	4.7	7.3	8.3	11	45	194	404	48	15	6.7
14	5.2	3.4	4.9	7.3	8.3	12	42	199	427	67	12	6.4
15	5.0	3.2	5.1	7.4	8.3	12	40	250	457	62	11	4.3
16	5.0	2.5	5.1	7.5	8.2	12	37	295	411	44	10	3.2
17	5.1	2.5	5.1	7.6	8.4	12	35	297	403	38	10	3.1
18	5.7	3.6	5.2	7.7	8.4	13	38	280	377	32	9.7	3.1
19	5.8	4.2	5.3	7.7	8.3	14	35	314	317	32	9.4	3.9
20	5.3	4.2	5.4	7.8	8.3	14	34	351	293	32	9.4	5.9
21	5.0	4.1	5.5	7.9	8.2	15	34	362	271	36	9.3	10
22	5.1	4.1	5.6	8.0	8.3	15	34	399	253	33	9.7	11
23	5.3	4.1	5.6	8.0	8.2	15	33	428	228	31	10	9.6
24	5.4	4.1	5.8	8.1	8.2	16	32	413	195	27	11	8.5
25	5.4	4.0	5.9	8.1	8.2	16	32	364	171	24	10	7.7
26	5.0	3.4	5.9	8.2	8.4	17	32	329	162	22	9.4	7.1
27	4.9	3.8	6.0	8.3	8.6	18	38	305	154	20	8.4	5.6
28	4.8	3.7	6.1	8.4	8.7	19	47	260	153	20	8.1	4.8
29	4.9	3.8	6.1	8.4	---	19	58	265	143	19	7.7	7.2
30	5.3	3.8	6.2	8.4	---	17	78	311	127	20	7.2	15
31	5.1	---	6.2	8.5	---	20	---	345	---	22	6.8	---
TOTAL	162.1	131.6	158.1	231.4	234.0	402.8	1196	7107	10134	1879	371.1	205.7
MEAN	5.23	4.39	5.10	7.46	8.36	13.0	39.9	229	338	60.6	12.0	6.86
MAX	7.5	6.2	6.2	8.5	8.7	20	78	428	517	186	19	15
MIN	3.2	2.5	3.8	6.1	8.2	8.9	24	68	127	19	6.8	3.1
AC-FT	322	261	314	459	464	799	2370	14100	20100	3730	736	408

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1995, BY WATER YEAR (WY)

	MEAN	8.34	7.49	5.94	5.24	5.33	9.74	81.7	291	174	25.3	7.81	5.72
MAX	29.9	26.7	13.0	9.00	10.0	46.5	233	456	481	104	28.2	16.4	
(WY)	1962	1960	1960	1960	1962	1960	1962	1958	1957	1957	1957	1961	
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1938 - 1995

ANNUAL TOTAL	15295.0	22212.8	
ANNUAL MEAN	41.9	60.9	52.5
HIGHEST ANNUAL MEAN			85.7
LOWEST ANNUAL MEAN			28.3
HIGHEST DAILY MEAN	441	May 15	746
LOWEST DAILY MEAN	2.1	Sep 12	b
ANNUAL SEVEN-DAY MINIMUM	2.3	Sep 11	3.3
INSTANTANEOUS PEAK FLOW			589
INSTANTANEOUS PEAK STAGE			7.43
ANNUAL RUNOFF (AC-FT)	30340	44060	38030
10 PERCENT EXCEEDS	156	262	195
50 PERCENT EXCEEDS	6.8	8.9	7.6
90 PERCENT EXCEEDS	3.8	4.8	3.2

a-Also occurred Nov 17.

b-Also occurred Aug 24, 1940.

c-Maximum gage height, 7.43 ft, Jun 6, 1995, current datum.

09041090 MUDDY CREEK ABOVE ANTELOPE CREEK NEAR KREMMLING, CO

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

DRAINAGE AREA.--145 mi².

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Estimated daily discharges: Nov. 25 to Apr. 14. Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	5.3	3.9	6.1	8.7	8.9	22	79	449	104	17	7.3
2	3.7	5.7	3.8	6.2	8.6	9.0	24	92	487	106	16	7.0
3	4.7	5.2	3.9	6.4	8.5	9.2	28	100	522	119	15	6.7
4	4.9	5.3	4.0	6.6	8.5	9.4	29	80	538	156	17	6.4
5	4.2	5.6	3.9	6.7	8.4	9.5	33	87	564	130	18	6.3
6	3.9	5.4	4.1	6.8	8.4	9.6	35	98	657	99	15	6.3
7	5.4	5.4	4.3	6.8	8.3	9.6	45	94	606	88	15	6.6
8	5.7	5.5	4.5	6.9	8.3	9.7	52	91	519	79	15	8.3
9	5.2	5.5	4.9	7.0	8.4	9.8	62	88	491	73	15	7.8
10	5.2	5.0	4.7	7.2	8.5	10	47	111	390	60	15	7.2
11	5.6	5.0	5.0	7.0	8.3	10	48	148	333	42	13	7.0
12	6.0	4.7	5.2	7.2	8.3	10	54	201	384	34	14	6.7
13	5.9	4.0	5.0	7.4	8.4	11	52	201	439	35	17	6.6
14	5.4	3.5	4.8	7.4	8.2	11	46	198	455	54	14	6.2
15	4.8	3.3	4.9	7.5	8.2	12	40	257	497	56	13	5.8
16	4.8	2.6	5.2	7.6	8.4	12	35	335	435	37	13	3.9
17	4.6	2.4	5.2	7.7	8.5	12	45	329	428	30	12	3.2
18	5.0	3.3	5.2	7.7	8.5	12	38	309	414	25	12	3.1
19	5.4	4.2	5.4	7.8	8.4	13	39	345	334	23	12	3.6
20	5.1	4.2	5.4	7.8	8.2	14	35	393	302	27	12	4.2
21	5.0	4.0	5.6	7.9	8.2	14	34	403	269	33	12	6.3
22	4.9	4.2	5.6	8.0	8.3	15	34	452	245	30	12	9.9
23	5.3	4.0	5.7	8.2	8.2	15	35	502	217	28	12	9.5
24	5.6	4.2	5.8	8.2	8.2	16	31	491	186	24	12	7.9
25	5.6	4.1	5.9	8.2	8.3	16	31	425	163	21	12	7.6
26	5.6	4.0	6.0	8.2	8.6	17	33	374	142	20	11	7.1
27	5.5	3.8	6.2	8.3	8.8	18	37	345	136	18	9.6	6.5
28	5.1	3.7	6.1	8.4	8.9	18	44	297	135	17	8.8	5.0
29	5.1	3.8	6.2	8.5	---	20	57	301	126	16	8.3	5.7
30	5.2	3.8	6.2	8.5	---	22	80	355	110	17	8.0	11
31	5.5	---	6.2	8.4	---	21	---	383	---	18	7.7	---
TOTAL	156.4	130.7	158.8	232.6	235.5	403.7	1225	7964	10973	1619	403.4	196.7
MEAN	5.05	4.36	5.12	7.50	8.41	13.0	40.8	257	366	52.2	13.0	6.56
MAX	6.0	5.7	6.2	8.5	8.9	22	80	502	657	156	18	11
MIN	2.5	2.4	3.8	6.1	8.2	8.9	22	79	110	16	7.7	3.1
AC-FT	310	259	315	461	467	801	2430	15800	21760	3210	800	390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1995, BY WATER YEAR (WY)

	MEAN	5.53	6.40	5.24	5.94	6.87	14.1	76.1	292	150	16.0	9.72	5.74
MAX	7.97	8.71	8.12	8.85	10.7	20.1	121	444	366	52.2	13.9	8.05	
(WY)	1994	1994	1994	1993	1993	1993	1990	1993	1995	1995	1991	1993	
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1990 - 1995

ANNUAL TOTAL	14827.16	23698.8											
ANNUAL MEAN	40.6	64.9								51.9			
HIGHEST ANNUAL MEAN										67.2		1993	
LOWEST ANNUAL MEAN										29.0		1992	
HIGHEST DAILY MEAN	447	May 15	657	Jun 6						789	May 21	1993	
LOWEST DAILY MEAN	.96	Jul 25	2.4	Nov 17						.96	Jul 25	1994	
ANNUAL SEVEN-DAY MINIMUM	1.2	Jul 22	3.3	Nov 13						1.2	Jul 22	1994	
INSTANTANEOUS PEAK FLOW			751	Jun 6						955	Jun 20	1994	
INSTANTANEOUS PEAK STAGE			6.53	Jun 6						7.36	Jun 20	1994	
ANNUAL RUNOFF (AC-FT)	29410	47010								37570			
10 PERCENT EXCEEDS	152	280								182			
50 PERCENT EXCEEDS	6.2	8.9								8.4			
90 PERCENT EXCEEDS	2.9	4.7								3.3			

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 current year.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 999 microsiemens, July 23, 1994; 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, 629 microsiemens, May 2; minimum daily, 116 microsiemens, June 17.

WATER TEMPERATURE: Maximum 23.8°C, July 12; minimum, 0.0°C, Oct. 31, Nov. 1, 5, and April 6-11.

REMARKS.--Sediment record is incomplete, missing analysis will be amended to the 1996 publication.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	(STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CA CO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
OCT 05...	1345	4.0	451	8.1	10.5	4.5	8.9	200	55	15
NOV 08...	1315	5.5	437	8.4	3.0	4.4	9.8	190	52	14
APR 14...	1035	46	385	8.2	4.5	91	9.6	170	49	11
MAY 23...	1500	484	168	8.5	6.5	82	8.9	74	22	4.5
JUN 05...	1515	555	146	8.2	8.5	56	8.7	63	19	3.8
JUN 20...	1545	277	153	8.2	11.0	17	8.2	68	20	4.3
JUL 06...	1345	103	334	8.1	13.0	5.2	8.0	150	40	11
JUL 13...	1430	31	405	8.5	21.0	3.5	7.8	180	52	12
AUG 14...	1630	14	401	8.4	16.0	11	7.9	180	50	13
AUG 29...	1100	7.1	449	8.3	18.0	5.1	7.8	200	55	15
SEP 18...	1440	3.3	525	8.4	15.0	3.2	7.5	230	62	18
SEP 28...	1300	4.1	420	8.2	9.0	5.4	8.6	180	49	14

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CA CO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
OCT 05...	17	15	0.5	2.1	135	95	1.7	0.2	6.3
NOV 08...	16	15	0.5	1.9	127	96	2.0	0.2	7.0
APR 14...	13	14	0.4	2.8	112	78	2.9	0.1	8.0
MAY 23...	5.0	13	0.3	1.1	68	19	0.70	<0.1	7.9
JUN 05...	4.2	12	0.2	1.0	60	15	0.40	<0.1	8.0
JUN 20...	4.6	13	0.2	0.70	61	19	0.60	0.1	8.1
JUL 06...	11	14	0.4	1.0	111	56	1.0	0.1	9.5
JUL 13...	12	13	0.4	1.4	148	63	1.3	0.1	10
AUG 14...	14	14	0.5	1.7	132	74	1.9	0.2	7.1
AUG 29...	17	16	0.5	1.8	137	93	1.5	0.2	5.9
SEP 18...	19	15	0.5	2.2	147	120	2.0	0.1	6.2
SEP 28...	15	15	0.5	1.9	121	91	1.5	0.1	6.2

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)
OCT 05...	--	0.30	0.20	0.30	0.01	<0.01	<0.01	--	--
NOV 08...	--	<0.20	<0.20	--	<0.01	<0.01	<0.01	--	--
APR 14...	--	0.60	0.30	0.67	0.14	0.02	0.02	--	--
MAY 23...	--	0.60	<0.20	0.78	0.18	<0.01	<0.01	12	7.0
JUN 05...	--	0.40	<0.20	0.40	0.11	<0.01	<0.01	--	--
20...	0.27	0.40	0.30	0.40	0.08	0.02	0.01	--	--
JUL 06...	--	0.40	0.30	0.40	0.03	<0.01	<0.01	--	--
13...	0.38	0.40	0.40	0.40	<0.01	0.01	<0.01	8.5	7.7
AUG 14...	0.10	0.30	0.20	0.30	<0.01	<0.01	0.01	--	--
29...	--	0.30	<0.20	0.30	0.03	<0.01	<0.01	5.0	4.9
SEP 18...	--	0.30	0.20	0.30	0.01	0.01	<0.01	4.9	4.3
28...	--	0.30	0.20	0.30	<0.01	<0.01	<0.01	--	--

[illegible]

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)
OCT 05...	--	--	--	--	24	--	--	--	--	--	--	--
NOV 08...	--	--	--	--	20	--	--	--	--	--	--	--
APR 14...	--	--	--	--	180	--	--	--	--	--	--	--
MAY 23...	3	6	<1	5400	120	6	<1	<10	140	14	<0.1	<0.1
JUN 05...	--	--	--	--	85	--	--	--	--	--	--	--
20...	--	--	--	--	100	--	--	--	--	--	--	--
JUL 06...	--	--	--	--	78	--	--	--	--	--	--	--
13...	--	--	--	--	61	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 14...	--	--	--	--	60	--	--	--	--	--	--	--
29...	--	--	--	--	46	--	--	--	--	--	--	--
SEP 18...	<1	1	<1	240	40	<1	<1	20	30	<10	<0.1	<0.1
28...	--	--	--	--	70	--	--	--	--	--	--	--

DATE	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
NOV 08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
APR 14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
MAY 04...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	1	1	9	1	<1	<1	<1	<1	170	30	4
31...	--	--	--	--	--	--	--	--	--	--	--
JUN 05...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
JUL 06...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
AUG 14...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
SEP 18...	2	2	2	1	1	<1	<1	<1	550	<10	<10
28...	--	--	--	--	--	--	--	--	--	--	--

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 05...	1230	4.0	29	0.31	100
NOV 08...	1205	5.5	22	0.33	100
APR 14...	1059	47	238	30	100
MAY 04...	0925	78	336	71	100
23...	1347	484	736	962	100
31...	1634	361	298	290	100
JUN 20...	1521	277	234	175	100
JUL 13...	1456	31	15	1.2	100

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

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	555	451	---	---	---	---	---	498	168	324	589	447
2	553	447	---	---	---	---	---	485	158	316	594	450
3	531	442	---	---	---	---	---	476	157	314	584	451
4	475	443	---	---	---	---	---	424	147	288	569	444
5	450	440	---	---	---	---	---	384	149	281	539	440
6	452	449	---	---	---	---	375	348	141	335	506	443
7	474	453	---	---	---	---	376	317	131	332	492	439
8	454	---	---	---	---	---	384	313	131	342	485	428
9	435	---	---	---	---	---	385	350	146	356	464	466
10	437	---	---	---	---	---	406	304	160	397	480	457
11	433	---	---	---	---	---	424	276	162	423	472	437
12	426	---	---	---	---	---	413	281	144	424	457	441
13	419	---	---	---	---	---	407	285	134	424	409	440
14	416	---	---	---	---	---	394	273	132	479	400	434
15	419	---	---	---	---	---	413	239	125	468	421	431
16	427	---	---	---	---	---	402	215	132	461	429	439
17	430	---	---	---	---	---	389	230	136	482	442	486
18	428	---	---	---	---	---	388	227	157	501	460	521
19	424	---	---	---	---	---	385	203	157	539	484	553
20	421	---	---	---	---	---	384	192	161	546	486	597
21	423	---	---	---	---	---	399	188	165	547	484	566
22	437	---	---	---	---	---	407	173	173	555	484	436
23	443	---	---	---	---	---	408	166	187	566	479	380
24	438	---	---	---	---	---	394	167	206	570	462	373
25	433	---	---	---	---	---	406	183	224	584	450	383
26	430	---	---	---	---	---	411	182	235	585	461	391
27	429	---	---	---	---	---	441	187	242	590	452	403
28	432	---	---	---	---	---	419	187	270	594	449	420
29	439	---	---	---	---	---	384	205	289	598	451	463
30	438	---	---	---	---	---	406	218	310	595	452	470
31	443	---	---	---	---	---	---	201	---	582	447	---
MEAN	447	---	---	---	---	---	---	270	174	464	478	451

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

TEMPERATURE WATER, (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.2	8.2	5.6	.0	---	---	---	---	---	---	---	---
2	13.1	8.7	6.1	.8	---	---	---	---	---	---	---	---
3	11.5	7.5	5.3	2.1	---	---	---	---	---	---	---	---
4	13.9	7.9	4.6	.4	---	---	---	---	---	---	---	---
5	11.8	7.4	3.7	.0	---	---	---	---	---	---	---	---
6	9.7	7.3	7.2	.5	---	---	---	---	---	---	---	---
7	9.5	6.6	7.6	1.6	---	---	---	---	---	---	---	---
8	12.1	5.0	---	---	---	---	---	---	---	---	---	---
9	12.8	4.3	---	---	---	---	---	---	---	---	---	---
10	13.2	4.2	---	---	---	---	---	---	---	---	---	---
11	12.7	4.5	---	---	---	---	---	---	---	---	---	---
12	12.8	5.3	---	---	---	---	---	---	---	---	---	---
13	13.6	5.7	---	---	---	---	---	---	---	---	---	---
14	12.3	5.6	---	---	---	---	---	---	---	---	---	---
15	10.1	6.7	---	---	---	---	---	---	---	---	---	---
16	10.0	4.8	---	---	---	---	---	---	---	---	---	---
17	5.0	2.8	---	---	---	---	---	---	---	---	---	---
18	5.1	2.5	---	---	---	---	---	---	---	---	---	---
19	7.3	3.2	---	---	---	---	---	---	---	---	---	---
20	6.6	1.7	---	---	---	---	---	---	---	---	---	---
21	8.8	2.7	---	---	---	---	---	---	---	---	---	---
22	9.2	3.7	---	---	---	---	---	---	---	---	---	---
23	9.1	2.0	---	---	---	---	---	---	---	---	---	---
24	8.3	1.4	---	---	---	---	---	---	---	---	---	---
25	8.4	.6	---	---	---	---	---	---	---	---	---	---
26	8.1	.6	---	---	---	---	---	---	---	---	---	---
27	7.1	2.2	---	---	---	---	---	---	---	---	---	---
28	8.6	1.4	---	---	---	---	---	---	---	---	---	---
29	7.1	2.9	---	---	---	---	---	---	---	---	---	---
30	5.5	.7	---	---	---	---	---	---	---	---	---	---
31	4.4	.0	---	---	---	---	---	---	---	---	---	---
MONTH	13.9	.0	---	---	---	---	---	---	---	---	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	9.7	3.3	11.3	4.6	16.2	10.8	21.7	12.0	20.4	14.1
2	---	---	8.1	6.0	10.0	4.5	13.7	10.9	21.7	12.6	20.9	14.9
3	---	---	8.0	4.7	11.0	4.7	12.8	10.4	20.5	13.4	22.2	15.1
4	---	---	10.3	3.0	9.6	5.3	13.8	9.6	18.8	14.6	22.2	14.3
5	---	---	9.4	6.1	11.5	5.2	17.9	9.6	20.3	12.9	21.8	14.8
6	.3	.0	10.4	4.1	11.4	4.8	19.9	11.5	17.9	13.4	20.8	14.0
7	2.9	.0	9.1	5.3	10.0	4.5	19.1	12.4	21.2	13.3	18.6	14.1
8	5.6	.0	6.2	3.3	8.1	4.5	21.9	12.9	21.4	14.8	17.9	13.8
9	1.6	.0	10.1	4.2	9.1	4.5	19.7	14.2	21.8	14.9	18.4	12.8
10	2.9	.0	12.1	5.8	9.9	4.6	22.6	13.1	20.5	15.9	19.0	13.9
11	5.1	.0	9.4	6.3	12.7	4.8	23.5	14.7	22.5	17.0	16.6	12.4
12	9.1	1.3	7.9	4.7	13.0	6.0	23.8	14.5	21.8	15.9	17.9	9.9
13	10.4	3.2	9.4	3.0	12.2	6.6	22.3	15.7	21.2	16.0	19.1	10.7
14	8.5	2.5	10.9	5.8	13.4	6.3	16.8	14.7	19.0	15.0	18.0	12.7
15	6.0	1.3	12.1	4.8	12.6	7.9	21.0	12.9	21.7	12.8	19.4	10.8
16	10.7	1.8	10.7	3.6	11.7	6.5	22.5	13.1	21.6	14.0	19.2	9.9
17	7.7	4.0	7.6	4.6	10.8	7.4	23.3	14.5	23.0	15.8	18.3	10.1
18	8.7	2.1	8.7	3.6	12.7	5.1	21.1	16.2	21.8	14.5	15.9	12.4
19	7.1	4.0	---	---	14.2	7.1	19.5	14.7	18.7	14.8	18.2	11.0
20	6.5	2.5	---	---	15.3	8.4	20.6	13.2	18.4	15.2	15.3	11.1
21	6.5	3.5	---	---	15.9	9.4	18.4	12.7	21.3	14.6	13.2	6.4
22	8.0	.2	---	---	15.7	10.1	19.8	12.1	22.8	16.2	10.7	4.7
23	6.7	2.8	---	---	16.4	9.6	20.1	11.8	20.5	16.5	10.1	5.2
24	9.5	1.8	7.7	3.9	16.2	9.7	20.8	12.5	19.2	16.4	11.7	6.1
25	7.4	3.7	8.1	4.0	16.9	9.5	21.8	12.9	21.1	14.4	12.6	4.9
26	10.7	1.6	7.7	3.5	18.7	10.2	21.6	12.6	23.4	14.8	10.7	5.9
27	10.6	4.4	7.4	4.3	16.0	11.5	21.9	12.5	22.6	16.7	14.6	7.3
28	9.7	6.0	9.6	4.1	14.5	11.1	23.4	12.9	22.9	16.3	10.3	7.7
29	8.6	5.8	9.3	5.0	16.0	10.6	23.2	14.4	23.3	16.7	10.7	7.6
30	8.5	2.9	7.4	5.0	15.2	11.0	21.4	14.8	23.0	14.6	9.5	8.0
31	---	---	11.1	4.9	---	---	21.9	13.1	22.9	14.6	---	---
MONTH	---	---	---	---	18.7	4.5	23.8	9.6	23.4	12.0	22.2	4.7

09041395 WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO

WATER-QUALITY RECORDS

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, 5 mi north of Kremmling.

DRAINAGE AREA.--270 mi².

PERIOD OF RECORD.--July 1995 to present.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

				SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)					
		DATE	TIME	SAM- PLING DEPTH (FEET)								
JUL												
		20...	1030	0.1	393	7.8	19.5	5.4				
		20...	1031	5.0	395	7.8	18.5	5.3				
		20...	1032	10	398	7.8	18.5	6.1				
		20...	1033	15	398	7.7	18.0	6.1				
		20...	1034	20	381	7.6	14.5	3.8				
		20...	1035	25	422	7.4	14.0	2.5				
		20...	1036	30	442	7.4	13.0	1.8				
		20...	1037	40	458	7.3	11.5	1.1				
		20...	1038	50	588	7.3	10.5	1.0				
		20...	1039	60	664	7.3	10.0	0.9				
		20...	1040	70	--	7.2	10.5	0.5				
		20...	1041	80	1320	7.1	8.0	0.1				
AUG												
		31...	1040	0.1	498	7.9	19.0	5.2				
		31...	1041	5.0	499	7.9	18.5	4.8				
		31...	1042	10	500	7.9	18.5	5.1				
		31...	1043	15	500	7.9	18.5	4.9				
		31...	1044	20	501	7.9	18.5	4.9				
		31...	1045	25	501	7.9	18.0	4.7				
		31...	1046	30	558	7.5	15.0	0.2				
		31...	1047	40	612	7.4	12.0	0.1				
		31...	1048	50	702	7.4	11.0	0.1				
		31...	1049	60	778	7.4	11.0	0.1				
		31...	1050	70	980	7.4	11.0	0.1				
		DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK IN)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
JUL												
		20...	1100	0.10	393	7.8	19.5	166	5.4	K1	170	47
		20...	1115	80.0	1320	7.1	8.0	--	0.1	--	710	180
AUG												
		31...	1100	0.10	498	7.9	19.0	156	5.2	<1	210	57
		31...	1115	70.0	980	7.4	11.0	--	0.1	--	400	110
		DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	SODIUM PERCENT	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)
JUL												
		20...	12	12	0.4	13	1.9	86	97	0.9	0.1	8.1
		20...	63	28	0.5	8	3.6	91	640	2.1	0.3	9.2
AUG												
		31...	16	14	0.4	13	1.7	109	130	1.2	0.2	7.1
		31...	30	19	0.4	9	2.0	110	320	1.9	0.2	9.9
		DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)			
JUL												
		20...	255	231	0.30	0.26	0.26	0.04	<0.01			
		20...	1080	987	1.8	0.32	0.42	0.18	0.06			
AUG												
		31...	313	293	0.40	0.38	0.28	0.02	<0.01			
		31...	596	560	0.70	0.37	0.27	0.33	<0.01			

K-Based on non-ideal colony count.

09041395 WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS- (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)		
JUL										
20...	0.30	0.30	<0.05	<0.01	<0.01	<0.01	0.6	<0.1		
20...	0.60	0.50	1.3	<0.01	0.01	0.01	--	--		
AUG										
31...	0.30	0.40	<0.05	0.01	<0.01	<0.01	1.0	<0.1		
31...	0.60	0.70	<0.05	0.07	0.06	0.06	--	--		
DATE	ALUM- INIUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
JUL										
20...	20	<1	<1	<100	49	<10	<1	<1	<1	<1
20...	20	<1	<1	<100	48	<10	<1	<1	<1	<1
AUG										
31...	20	<1	<1	<100	51	<10	<1	<1	<1	<1
31...	10	1	1	<100	46	<10	<1	<1	<1	<1
DATE	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
JUL										
20...	<1	<1	<1	60	36	<1	<1	<10	<10	5
20...	<1	<1	1	100	46	<1	<1	40	--	--
AUG										
31...	<1	1	<1	50	26	<1	<1	20	20	14
31...	1	<1	<1	420	370	<1	<1	30	250	250
DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
JUL										
20...	0.3	<0.1	2	2	2	2	<1	<1	<10	<3
20...	<0.1	<0.1	11	8	--	--	<1	<1	<10	5
AUG										
31...	<0.1	<0.1	3	2	2	1	<1	<1	<10	<3
31...	<0.1	<0.1	6	4	6	4	<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 NW1/4NW1/4 sec.18, T.2 N, R.81 W., Grand County, Hydrologic Unit 14010001, 5 mi north of Kremmling.

DRAINAGE AREA.--270 mi².

PERIOD OF RECORD.--July 1995 to present.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
JUL						
20...	1135	0.1	411	7.7	20.5	5.2
20...	1136	5.0	410	7.8	19.0	5.2
20...	1137	10	408	7.8	19.0	5.0
20...	1138	15	414	7.5	17.0	3.3
20...	1139	20	428	7.4	15.0	2.8
20...	1140	25	506	7.3	14.0	0.6
20...	1141	30	570	7.2	13.5	0.1
20...	1142	40	594	7.2	12.0	0.1
AUG						
31...	1220	0.1	503	7.9	20.5	5.0
31...	1221	5.0	502	7.9	20.0	5.0
31...	1222	10	501	7.9	19.5	5.1
31...	1223	15	502	7.9	19.0	4.5
31...	1224	20	531	7.5	18.0	1.3
31...	1225	25	563	7.4	16.5	0.2
31...	1226	30	595	7.3	15.5	0.1
31...	1227	40	670	7.3	12.5	0.1

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
JUL												
20...	1200	0.10	411	7.7	20.5	132	5.2	<1	180	49	13	13
20...	1215	40.0	594	7.2	12.0	--	0.1	--	260	70	20	18
AUG												
31...	1245	0.10	503	7.9	20.5	138	5.0	<1	210	56	16	14
31...	1300	40.0	670	7.3	12.5	--	0.1	--	250	68	20	17

DATE	SODIUM AD- SORP- TION RATIO	SODIUM PERCENT	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
JUL												
20...	0.4	14	1.9	91	100	1.0	0.1	8.3	267	241	0.40	0.35
20...	0.5	13	2.4	115	170	1.4	0.2	9.9	384	361	0.50	0.41
AUG												
31...	0.4	13	1.8	110	130	1.3	0.2	6.9	318	292	0.40	0.38
31...	0.5	13	1.7	122	170	1.6	0.2	9.5	400	362	0.60	0.33

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHOR- DIS- SOLVED (MG/L AS P)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
JUL											
20...	0.25	0.05	<0.01	0.30	0.40	<0.05	0.04	<0.01	<0.01	0.2	<0.1
20...	0.31	0.09	<0.01	0.40	0.50	<0.05	0.04	0.03	0.03	--	--
AUG											
31...	0.28	0.02	<0.01	0.30	0.40	<0.05	0.01	<0.01	<0.01	1.9	<0.1
31...	0.23	0.27	<0.01	0.50	0.60	<0.05	0.08	0.07	0.07	--	--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
JUL										
20...	30	<1	<1	<100	51	<10	<1	<1	<1	<1
20...	40	<1	<1	<100	54	<10	<1	<1	<1	<1
AUG										
31...	20	<1	<1	<100	51	<10	<1	<1	<1	<1
31...	30	<1	<1	<100	50	<10	<1	<1	<1	<1
DATE	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
JUL										
20...	<1	<1	<1	60	40	<1	<1	30	10	7
20...	<1	<1	<1	290	200	<1	<1	20	140	130
AUG										
31...	<1	1	<1	40	29	<1	<1	20	30	14
31...	<1	<1	<1	230	190	<1	<1	30	140	130
DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
JUL										
20...	<0.1	0.1	2	2	1	1	<1	<1	<10	<3
20...	<0.1	<0.1	1	2	1	<1	<1	<1	<10	<3
AUG										
31...	<0.1	<0.1	3	1	<2	<2	<1	<1	<10	<3
31...	<0.1	<0.1	3	2	<1	<1	<1	<1	<10	<3

09041400 MUDDY CREEK BELOW WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°06'31", long 106°24'48", in NW¹/4SE¹/4 sec.25, T. 2 N., R.81 W., Grand County, Hydrologic Unit 14010001, on left bank, about 1500 ft downstream from Wolford Mountain Reservoir, near Kremmling.

DRAINAGE AREA.--270 mi².

REMARKS.--Elevation of gage is 7,380 ft above sea level, from topographic map. Periodic water-quality data only for 1995 water year. Continuous water-quality monitor data will be published beginning in the 1996 water year report.

PERIOD OF RECORD.--July to September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
JUL 07...	1145	84	414	7.9	12.0	1.9	7.7	180	50	13
13...	1115	53	446	7.9	12.5	2.2	9.0	370	98	30
AUG 16...	1030	79	564	8.1	12.0	1.6	7.5	250	68	19
SEP 19...	1100	46	530	8.2	16.0	1.9	7.8	240	63	19

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
JUL 07...	12	13	0.4	1.6	83	120	1.5	0.1	9.0
13...	23	12	0.5	2.6	128	290	2.4	0.2	9.4
AUG 16...	17	13	0.5	1.9	105	170	2.0	0.1	9.8
SEP 19...	17	13	0.5	2.1	115	150	1.7	0.1	7.7

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
JUL 07...	270	257	0.37	61.2	--	--	--	--	0.30
13...	288	533	0.39	41.0	4	<0.01	0.06	0.28	0.42
AUG 16...	376	351	0.51	80.4	--	<0.01	<0.05	0.24	0.26
SEP 19...	355	330	0.48	43.9	6	<0.01	<0.05	0.02	0.48

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)
JUL 07...	--	0.30	--	0.30	<0.01	--	--	--	--
13...	0.42	0.70	0.70	0.76	0.11	0.06	0.05	8.1	7.2
AUG 16...	0.26	0.50	0.50	0.50	0.04	<0.01	0.04	--	--
SEP 19...	0.28	0.50	0.30	0.50	0.05	<0.01	<0.01	8.6	7.1

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
JUL 07...	1145	--	--	--	--	--	--	--	--	--	--	--
JUL 13...	1115	--	--	--	--	--	--	--	--	--	--	--
AUG 16...	1030	--	--	--	--	--	--	--	--	--	--	--
SEP 19...	1100	60	1	<1	<100	<100	<10	60	<1	<1	<1	<1

DATE	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)
JUL 07...	--	--	--	--	48	--	--	--	--	--	--	--
JUL 13...	--	--	--	--	160	--	--	--	--	--	--	--
AUG 16...	--	--	--	--	160	--	--	--	--	--	--	--
SEP 19..	<1	<1	<1	130	50	<1	<1	20	40	40	<0.1	<0.1

DATE	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
JUL 07...	--	--	--	--	--	--	--	--	--	--	--
JUL 13...	--	--	--	--	--	--	--	--	--	--	--
AUG 16...	--	--	--	--	--	--	--	--	--	--	--
SEP 19...	2	2	2	2	4	3	<1	<1	560	<10	<10

09041500 MUDDY CREEK AT KREMMLING, CO

LOCATION.--Lat 40°03'43", long 106°23'43", in NW¹/4SE¹/4 sec. 7, T.1 N., R.80 W., Grand County, Hydrologic Unit 14010001, on left bank 900 ft upstream from U.S. Highway 40 bridge at Kremmling and 3.0 mi upstream from mouth.

DRAINAGE AREA.--290 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August to October 1904, April to October 1905. Monthly discharge only in WSP 1313. April 1982 to September 1995 (Discontinued).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,340 ft above sea level, from topographic map. Prior to Aug. 23, 1989, at site 450 ft downstream at same datum. Supplementary recorder on diversion ditch about 2,000 ft downstream from point of diversion. Effective May 20, 1995, flow regulated by Wolford Mountain Reservoir.

REMARKS.--Estimated daily discharges: Nov. 26 to Mar. 29, July 12-17 and Aug. 23-27. Records fair except for estimated daily discharges, which are poor. Records include flow of diversion ditch.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	7.3	6.8	8.3	12	13	23	116	182	88	29	56
2	5.6	9.5	6.7	8.4	12	13	28	107	157	87	28	62
3	8.2	8.6	6.8	8.3	11	13	29	148	193	87	28	63
4	7.9	8.5	7.0	8.5	12	14	30	115	218	73	35	63
5	8.1	7.9	6.9	8.4	12	14	39	103	166	71	33	63
6	8.8	7.8	7.2	8.4	12	14	48	115	80	71	36	64
7	8.8	7.8	7.3	8.5	12	14	53	111	76	63	36	64
8	9.3	8.0	7.5	8.7	11	14	64	110	50	78	39	67
9	10	8.9	8.0	9.0	12	14	70	111	74	78	26	60
10	8.5	8.8	7.6	9.2	12	14	51	121	235	78	48	65
11	8.0	8.4	7.7	9.2	12	15	44	158	296	76	63	66
12	7.9	8.3	7.8	9.4	12	16	43	212	311	65	65	67
13	7.4	10	7.8	9.5	12	17	40	257	332	33	64	114
14	6.3	8.9	7.6	9.6	12	15	56	244	370	22	63	68
15	8.3	6.3	7.4	9.6	12	15	60	272	290	14	75	62
16	8.1	5.0	7.2	9.8	12	16	51	374	301	12	74	49
17	8.6	6.1	7.2	9.9	12	16	53	381	322	12	48	49
18	7.8	5.9	7.3	9.8	13	17	60	389	289	10	39	49
19	7.9	8.3	7.4	10	13	17	53	376	257	11	60	49
20	8.5	8.1	7.2	10	13	17	53	269	121	11	59	49
21	8.6	9.6	7.4	10	12	18	50	63	66	15	58	49
22	8.1	8.1	7.5	11	12	19	47	76	64	16	52	50
23	6.7	6.3	7.6	11	12	19	45	41	57	16	40	49
24	6.5	5.7	7.8	11	12	20	47	84	47	16	15	49
25	6.6	5.3	8.0	12	12	20	45	143	33	19	6.0	49
26	6.9	6.2	8.1	12	13	21	50	190	33	18	5.8	50
27	7.2	6.3	8.3	11	13	22	54	198	61	24	5.6	50
28	7.8	6.4	8.2	12	13	22	53	209	78	27	5.2	49
29	8.2	6.6	8.3	12	---	29	65	229	69	30	6.3	51
30	7.5	6.6	8.4	12	---	19	86	197	69	30	38	50
31	7.3	---	8.3	12	---	21	---	127	---	30	52	---
TOTAL	240.3	225.5	234.3	308.5	340	528	1490	5646	4897	1281	1231.9	1745
MEAN	7.75	7.52	7.56	9.95	12.1	17.0	49.7	182	163	41.3	39.7	58.2
MAX	10	10	8.4	12	13	29	86	389	370	88	75	114
MIN	4.9	5.0	6.7	8.3	11	13	23	41	33	10	5.2	49
AC-FT	477	447	465	612	674	1050	2960	11200	9710	2540	2440	3460

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1995, BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	16.2	15.3	13.9	13.8	16.2	36.4	145	455	264	78.7	26.7	17.5	
MAX	33.2	29.3	28.6	24.5	42.1	91.2	310	957	722	246	64.4	58.2	
(WY)	1987	1986	1986	1986	1986	1986	1986	1984	1983	1983	1983	1995	
MIN	7.60	7.52	6.77	5.52	7.01	17.0	49.7	182	75.1	27.9	11.5	3.83	
(WY)	1990	1995	1991	1991	1991	1995	1995	1995	1994	1994	1988	1994	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1983 - 1995

ANNUAL TOTAL	20640.61	18167.5	
ANNUAL MEAN	56.5	49.8	
HIGHEST ANNUAL MEAN			91.9
LOWEST ANNUAL MEAN			172
HIGHEST DAILY MEAN	560	May 15	1590
LOWEST DAILY MEAN	.61	Sep 19	44.8
ANNUAL SEVEN-DAY MINIMUM	1.6	Sep 14	.61
INSTANTANEOUS PEAK FLOW			1670
INSTANTANEOUS PEAK STAGE			12.67
ANNUAL RUNOFF (AC-FT)	40940	36040	66570
10 PERCENT EXCEEDS	190	115	262
50 PERCENT EXCEEDS	9.8	16	23
90 PERCENT EXCEEDS	6.3	7.3	7.7

a-Maximum gage height 6.63 ft, Aug 23, backwater from debris.

09041500 MUDDY CREEK AT KREMMLING, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1985 to September 1995 (Discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1986 to September 1987, April 1990 to September 1995 (Discontinued).

WATER TEMPERATURE: April 1986 to September 1987, April 1990 to September 1995 (Discontinued).

INSTRUMENTATION.--Water-quality monitor from April 1986 to September 1987, April 1990 to September 1995 (Discontinued).

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 2,340 microsiemens, Sept. 17, 1993; minimum, 177 microsiemens, May 15, 1991.

WATER TEMPERATURE: Maximum, 25.9°C, July 1-2, 1990; minimum, 0.0°C, on many days during winter.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum measured, 1,790 microsiemens, Mar. 23; minimum measured, 319 microsiemens, June 11.

WATER TEMPERATURE: Maximum, 21.6°C, July 29; minimum, .1°C, on numerous days.

REMARKS.--Missing sediment data will be amended to the 1996 publication.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
OCT										
03...	1545	12	1530	8.0	11.5	3.5	804	700	160	74
NOV										
09...	1100	8.5	1330	8.4	3.5	7.8	10.1	590	130	64
DEC										
20...	1145	7.2	906	7.9	0.0	1.3	12.6	400	100	36
JAN										
26...	1130	12	706	--	0.0	16	9.2	300	79	26
FEB										
07...	1200	12	730	7.9	0.0	14	9.6	300	77	27
MAR										
29...	1545	29	953	8.4	1.5	10	11.3	390	85	42
APR										
14...	1335	64	700	8.4	8.0	44	8.7	290	73	27
MAY										
18...	1630	383	358	8.1	7.5	190	8.8	150	40	11
JUN										
23...	1130	63	400	8.5	14.5	17	7.8	170	47	13
JUL										
11...	1600	28	462	8.3	15.5	6.2	7.8	190	54	14
AUG										
15...	1500	78	575	8.3	15.0	12	7.7	260	70	20
SEP										
19...	1400	50	562	8.3	15.0	13	8.3	250	66	20

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
OCT									
03...	85	21	1	4.1	219	640	6.9	0.4	8.8
NOV									
09...	75	22	1	3.1	180	550	6.8	0.3	6.2
DEC									
20...	43	19	0.9	2.6	199	290	5.0	0.2	11
JAN									
26...	35	20	0.9	2.5	182	190	4.1	0.3	12
FEB									
07...	35	20	0.9	3.5	167	200	5.1	0.2	12
MAR									
29...	56	24	1	3.2	161	320	6.3	0.2	8.8
APR									
14...	34	20	0.9	2.6	146	210	4.7	0.2	7.4
MAY									
18...	13	16	0.5	1.7	94	72	1.7	0.1	8.1
JUN									
23...	14	15	0.5	1.5	86	110	2.1	0.2	8.1
JUL									
11...	13	13	0.4	1.8	93	130	2.1	0.1	8.6
AUG									
15...	18	13	0.5	1.9	111	180	2.2	0.2	8.4
SEP									
19...	19	14	0.5	2.2	122	160	2.0	0.1	7.7

09041500 MUDDY CREEK AT KREMMLING, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDEED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT 03...	1180	1110	1.60	37.6	--	<0.01	<0.05	<0.02	0.40
NOV 09...	1000	944	1.37	23.1	--	<0.01	0.05	0.02	0.18
DEC 20...	648	608	0.88	12.7	22	<0.01	0.12	0.03	0.17
JAN 26...	470	459	0.64	14.8	--	<0.01	0.10	0.04	0.26
FEB 07...	490	461	0.67	15.6	--	0.04	0.22	0.11	0.49
MAR 29...	628	619	0.85	49.9	--	<0.01	0.13	0.05	0.35
APR 14...	474	447	0.64	82.0	--	<0.01	<0.05	0.02	0.48
MAY 18...	224	205	0.30	232	428	<0.01	0.22	0.02	0.88
JUN 23...	268	248	0.36	45.7	--	0.01	<0.05	0.03	0.37
JUL 11...	314	279	0.43	24.0	14	<0.01	<0.05	0.02	0.38
AUG 15...	390	368	0.53	82.2	--	<0.01	<0.05	0.15	0.35
SEP 19...	375	351	0.51	50.4	30	<0.01	<0.05	0.02	0.48
DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)
OCT 03...	--	0.40	0.30	0.40	0.02	0.01	<0.01	--	--
NOV 09...	0.18	0.20	0.20	0.25	<0.01	<0.01	<0.01	--	--
DEC 20...	--	0.20	<0.20	0.32	0.02	<0.01	0.01	4.7	3.9
JAN 26...	--	0.30	<0.20	0.40	0.02	<0.01	<0.01	--	--
FEB 07...	0.39	0.60	0.50	0.82	0.01	0.04	0.01	--	--
MAR 29...	0.25	0.40	0.30	0.53	0.03	0.03	<0.01	--	--
APR 14...	0.18	0.50	0.20	0.50	0.10	<0.01	<0.01	--	--
MAY 18...	0.28	0.90	0.30	1.1	0.30	<0.01	<0.01	17	8.0
JUN 23...	0.27	0.40	0.30	0.40	0.05	0.01	<0.01	--	--
JUL 11...	0.28	0.40	0.30	0.40	<0.01	<0.01	<0.01	7.7	6.9
AUG 15...	0.25	0.50	0.40	0.50	0.02	0.02	0.01	--	--
SEP 19...	0.28	0.50	0.30	0.50	0.04	<0.01	<0.01	9.0	7.1

09041500 MUDDY CREEK AT KREMMLING, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
OCT 03...	1545	--	--	--	--	--	--	--	--	--	--	--
NOV 09...	1100	--	--	--	--	--	--	--	--	--	--	--
DEC 20...	1145	--	--	--	--	--	--	--	--	--	--	--
JAN 26...	1130	--	--	--	--	--	--	--	--	--	--	--
FEB 07...	1200	--	--	--	--	--	--	--	--	--	--	--
MAR 29...	1545	--	--	--	--	--	--	--	--	--	--	--
APR 14...	1335	--	--	--	--	--	--	--	--	--	--	--
MAY 18...	1630	4300	2	1	100	41	<10	30	<1	<1	7	<1
JUN 23...	1130	--	--	--	--	--	--	--	--	--	--	--
JUL 11...	1600	--	--	--	--	--	--	--	--	--	--	--
AUG 15...	1500	--	--	--	--	--	--	--	--	--	--	--
SEP 19...	1400	340	1	1	<100	<100	<10	50	<1	<1	<1	<1

DATE	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)
OCT 03...	--	--	--	--	7	--	--	--	--	--	--	--
NOV 09...	--	--	--	--	4	--	--	--	--	--	--	--
DEC 20...	--	--	--	--	13	--	--	--	--	--	--	--
JAN 26...	--	--	--	--	18	--	--	--	--	--	--	--
FEB 07...	--	--	--	--	44	--	--	--	--	--	--	--
MAR 29...	--	--	--	--	92	--	--	--	--	--	--	--
APR 14...	--	--	--	--	48	--	--	--	--	--	--	--
MAY 18...	4	11	1	9700	36	9	<1	20	230	23	<0.1	<0.1
JUN 23...	--	--	--	--	74	--	--	--	--	--	--	--
JUL 11...	--	--	--	--	59	--	--	--	--	--	--	--
AUG 15...	--	--	--	--	110	--	--	--	--	--	--	--
SEP 19...	<1	2	1	660	40	<1	<1	20	110	80	<0.1	<0.1

09041500 MUDDY CREEK AT KREMLING, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
NOV											
09...	--	--	--	--	--	--	--	--	--	--	--
DEC											
20...	--	--	--	--	--	--	--	--	--	--	--
JAN											
26...	--	--	--	--	--	--	--	--	--	--	--
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
29...	--	--	--	--	--	--	--	--	--	--	--
APR											
14...	--	--	--	--	--	--	--	--	--	--	--
MAY											
18...	--	--	--	--	--	--	--	--	--	--	--
18...	1	1	15	2	3	2	<1	<1	330	60	<3
JUN											
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG											
15...	--	--	--	--	--	--	--	--	--	--	--
SEP											
19...	2	2	3	3	3	3	<1	<1	590	<10	<10

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
03...	1450	12	197	6.3	100
NOV					
09...	0958	8.5	57	1.3	100
DEC					
20...	1030	7.2	94	1.8	100
JAN					
26...	1012	12	90	2.8	100
FEB					
07...	1036	12	79	2.5	100
MAR					
29...	1501	29	36	2.8	100
MAY					
04...	1038	120	714	231	100
18...	1535	383	1870	1930	100
31...	1729	118	229	73	100
JUN					
05...	1357	121	99	32	100
23...	1051	63	73	12	100

09041500 MUDDY CREEK AT KREMMLING, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995												
MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1440	1310	---	---	---	---	1010	---	336	428	999	481
2	1460	1300	---	---	---	---	952	---	340	428	964	516
3	1530	1290	---	---	---	---	923	---	346	431	944	627
4	1720	1320	---	---	---	---	970	---	348	435	924	618
5	1690	1340	---	---	---	---	921	---	355	442	901	625
6	1570	1320	---	---	---	---	882	---	---	456	876	628
7	1500	1300	---	---	---	---	768	---	---	467	876	644
8	1490	1290	---	---	---	---	699	---	384	464	879	---
9	1500	1330	---	---	---	---	610	---	376	464	838	---
10	1600	1320	---	---	---	---	592	---	341	469	664	---
11	1670	1320	---	---	---	---	614	---	332	476	597	---
12	1590	1320	---	---	---	---	658	---	336	486	588	495
13	1490	1290	---	---	---	---	680	---	335	501	587	511
14	1450	1300	---	---	---	---	671	---	---	500	584	649
15	1510	1310	---	---	---	---	586	---	---	517	---	619
16	1560	1310	---	---	---	---	556	---	342	522	587	575
17	1460	1310	---	---	---	---	595	---	341	596	601	---
18	1350	1350	---	---	---	---	587	---	346	668	620	---
19	1300	1370	---	---	---	1510	538	---	353	699	606	---
20	1270	1370	---	---	---	1580	551	---	403	699	602	578
21	1250	1400	---	---	---	1730	580	---	409	693	612	---
22	1240	---	---	---	---	1560	617	---	412	682	616	574
23	1260	---	---	---	---	1590	676	---	421	665	630	575
24	1300	---	---	---	---	1320	703	391	419	646	654	572
25	1330	---	---	---	---	1120	672	---	418	644	725	574
26	1340	---	---	---	---	1170	701	330	419	645	735	578
27	1370	---	---	---	---	1150	758	331	419	617	---	584
28	1390	---	---	---	---	1050	---	334	422	666	---	595
29	1340	---	---	---	---	---	---	352	420	1600	727	589
30	1320	---	---	---	---	1020	---	361	420	1220	---	595
31	1300	---	---	---	---	1010	---	374	---	1050	480	---
MEAN	1440	---	---	---	---	---	---	---	---	622	---	---

09041500 MUDDY CREEK AT KREMMLING, CO--Continued

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	5.4	3.8	---	---	---	---	---	---	.6	.3
2	---	---	5.3	3.8	---	---	---	---	---	---	.5	.1
3	---	---	4.9	3.9	---	---	---	---	---	---	.4	.2
4	11.8	10.1	4.7	3.3	---	---	---	---	---	---	.9	.0
5	11.1	9.8	4.7	3.0	---	---	---	---	---	---	.9	.5
6	10.0	9.1	5.4	3.2	---	---	---	---	---	---	.8	.5
7	9.8	8.6	5.3	3.4	---	---	---	---	---	---	.7	.0
8	10.5	7.8	4.4	3.7	---	---	---	---	---	---	.2	.0
9	10.1	7.4	4.9	3.1	---	---	---	---	---	---	.3	.0
10	10.3	7.8	4.7	3.0	---	---	---	---	---	---	.4	.0
11	10.2	7.9	4.5	3.0	---	---	---	---	---	---	.6	.2
12	10.6	8.4	3.9	3.1	---	---	---	---	---	---	.7	.5
13	10.8	8.2	3.5	2.3	---	---	---	---	---	---	.8	.6
14	10.0	8.2	3.3	2.0	---	---	---	---	---	---	.9	.5
15	9.6	8.6	3.3	1.6	---	---	---	---	---	---	.9	.2
16	9.2	7.5	3.1	1.6	---	---	---	---	---	---	1.2	.7
17	7.6	6.3	2.9	1.8	---	---	---	---	---	---	1.5	.7
18	6.9	5.8	2.4	1.3	---	---	---	---	---	---	1.2	.7
19	7.0	5.5	2.1	.7	---	---	---	---	---	---	1.0	.6
20	6.5	4.9	1.0	.3	---	---	---	---	---	---	1.1	.6
21	7.3	5.0	1.0	.2	---	---	---	---	---	---	1.3	.7
22	7.5	5.8	---	---	---	---	---	---	---	---	1.1	.6
23	7.5	5.2	---	---	---	---	---	---	---	---	1.5	.6
24	8.0	5.0	---	---	---	---	---	---	---	---	2.1	.6
25	6.9	4.5	---	---	---	---	---	---	---	---	1.5	.6
26	6.8	4.4	---	---	---	---	---	---	---	---	1.7	.6
27	6.5	5.1	---	---	---	---	---	---	---	---	2.6	.6
28	7.1	4.9	---	---	---	---	---	---	---	---	3.0	.6
29	7.8	5.4	---	---	---	---	---	---	---	---	1.6	.4
30	6.4	5.0	---	---	---	---	---	---	---	---	2.2	.0
31	5.8	3.7	---	---	---	---	---	---	---	---	2.4	.1
MONTH	---	---	---	---	---	---	---	---	---	---	3.0	.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.0	.0	9.1	6.6	14.3	9.4	13.6	12.2	19.6	16.0	---	---
2	2.9	.0	8.5	6.8	14.1	8.6	14.0	12.3	19.5	16.2	---	---
3	3.9	.0	7.7	6.6	14.6	8.9	14.4	11.4	19.5	16.4	---	---
4	4.1	.0	9.8	5.8	14.1	9.6	12.2	11.2	19.0	17.0	---	---
5	5.2	.9	9.7	7.3	13.7	10.3	16.0	12.2	17.5	15.5	17.5	15.3
6	5.5	.9	10.3	7.3	---	---	17.2	15.3	17.4	14.7	16.6	14.4
7	5.3	.8	9.4	7.5	---	---	17.2	15.1	17.6	15.6	15.9	13.3
8	6.0	3.6	8.6	6.9	---	---	17.7	14.2	18.7	16.3	---	---
9	---	---	9.4	6.3	12.2	8.4	17.7	14.5	19.9	16.8	---	---
10	---	---	11.6	7.5	12.4	8.1	18.2	14.0	19.5	16.6	---	---
11	---	---	10.8	9.5	15.0	9.6	18.7	15.6	18.0	16.3	---	---
12	---	---	10.0	7.4	15.3	10.2	19.0	15.8	18.4	16.1	---	---
13	---	---	8.8	6.2	14.4	9.9	19.9	16.0	18.0	16.1	---	---
14	---	---	12.0	6.7	---	---	17.3	13.7	17.0	13.7	---	---
15	---	---	12.3	9.1	---	---	17.6	13.4	---	---	---	---
16	---	---	11.3	7.7	14.5	10.3	19.3	15.3	17.5	13.4	---	---
17	---	---	8.1	7.1	13.6	10.1	21.3	16.8	18.0	14.9	---	---
18	---	---	7.9	6.4	15.0	11.4	21.4	19.4	18.8	15.8	17.0	15.0
19	---	---	10.3	7.6	16.1	10.6	20.5	18.8	18.0	14.4	16.3	13.8
20	6.7	4.1	10.8	8.8	16.1	14.0	19.4	17.8	16.1	14.3	---	---
21	6.8	3.8	12.3	8.7	16.4	15.1	18.6	16.5	16.7	14.3	---	---
22	8.1	3.4	12.8	9.2	16.3	14.4	18.1	15.9	19.3	16.0	12.4	9.3
23	8.3	4.7	13.2	10.7	15.0	13.6	17.9	15.5	18.0	16.2	12.6	10.7
24	8.2	5.3	12.0	8.5	15.6	13.7	17.8	15.7	18.9	16.1	12.1	10.4
25	7.3	5.4	---	---	15.8	14.0	19.1	16.4	20.2	15.4	12.8	9.3
26	8.4	3.4	11.4	7.1	16.8	15.3	19.2	17.3	---	---	12.7	10.5
27	9.6	5.3	10.5	7.4	17.5	13.1	20.0	17.8	---	---	14.8	11.5
28	10.4	7.6	12.2	7.5	14.8	13.3	20.5	17.8	---	---	13.9	10.3
29	9.8	7.9	11.0	7.6	14.9	12.2	21.6	18.3	---	---	12.1	10.3
30	7.9	6.2	10.0	7.7	13.4	12.5	20.3	17.8	---	---	12.0	10.6
31	---	---	13.4	8.5	---	---	19.2	16.7	---	---	---	---
MONTH	---	---	---	---	---	---	21.6	11.2	---	---	---	---

09041900 MONTE CRISTO DIVERSION NEAR HOOSIER PASS, CO

LOCATION.--Lat 39°22'51", long 106°04'15", in NE¹/4SE¹/4 sec.2, T.8 S., R.78W., Summit County, Hydrologic Unit 14010002, on left bank at entrance to Hoosier Pass tunnel, 1,800 ft downstream from diversion point, 1.4 mi northwest of Hoosier Pass, and 7 mi southwest of Breckenridge.

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

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

REMARKS.--Estimated daily discharges: Oct. 12-31, June 6-9, June 28 to Aug. 20, and Sept. 7-30. 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 SW¹/4NE¹/4 sec.2, T.8 S., R.78 W. The entire flow is regulated by diversion gates.

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	---	---	---	---	---	.00	.00	.00	.00	.00	3.8
2	63	---	---	---	---	---	.00	.00	.00	.00	.00	6.8
3	60	---	---	---	---	---	.00	.00	.00	.00	.00	11
4	56	---	---	---	---	---	.00	.00	.00	.00	.00	11
5	50	---	---	---	---	---	.00	.00	.00	.00	.00	10
6	43	---	---	---	---	---	.00	.00	3.0	.00	.00	11
7	37	---	---	---	---	---	.00	.00	3.0	.00	.00	4.8
8	30	---	---	---	---	---	.00	.00	3.0	.00	.00	.00
9	23	---	---	---	---	---	.00	.00	6.9	.16	.00	.00
10	13	---	---	---	---	---	.00	.00	5.1	.04	.00	.00
11	3.3	---	---	---	---	---	.00	.00	7.4	.00	.00	.00
12	.67	---	---	---	---	---	.00	.00	16	.00	.00	.00
13	.00	---	---	---	---	---	.00	.00	22	.00	.00	.00
14	.00	---	---	---	---	---	.00	.00	26	.00	.00	.00
15	.00	---	---	---	---	---	.00	.00	23	.00	.00	.00
16	.00	---	---	---	---	---	.00	.00	25	.00	.00	.00
17	.00	---	---	---	---	---	.00	.00	33	.00	.00	.00
18	.00	---	---	---	---	---	.00	.00	22	.00	.00	.00
19	.00	---	---	---	---	---	.00	.00	18	.00	.00	.00
20	.00	---	---	---	---	---	.00	.00	18	.00	7.5	.00
21	.00	---	---	---	---	---	.00	.00	17	.00	20	.00
22	.00	---	---	---	---	---	.00	.00	15	.00	42	.00
23	.00	---	---	---	---	---	.00	.00	10	.00	19	.00
24	.00	---	---	---	---	---	.00	.00	6.7	.00	11	.00
25	.00	---	---	---	---	---	.00	.00	5.6	.00	5.7	.00
26	.00	---	---	---	---	---	.00	.00	6.4	.00	5.3	.00
27	.00	---	---	---	---	---	.00	.00	6.6	.00	3.3	.00
28	.00	---	---	---	---	---	.00	.00	2.3	.00	5.0	.00
29	.00	---	---	---	---	---	.00	.00	.00	.00	8.9	.00
30	.00	---	---	---	---	---	.00	.00	.00	.00	6.5	.00
31	.00	---	---	---	---	---	---	.00	---	.00	4.9	---
TOTAL	444.97	---	---	---	---	---	0.00	0.00	301.00	0.20	139.10	58.40
MEAN	14.4	---	---	---	---	---	.000	.000	10.0	.006	4.49	1.95
MAX	66	---	---	---	---	---	.00	.00	33	.16	42	11
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	883	---	---	---	---	---	.00	.00	597	.4	276	116

09044300 BEMROSE-HOOSIER DIVERSION NEAR HOOSIER PASS, CO

LOCATION.--Lat 39°22'50", long 106°04'13", in NE¹/4SE¹/4 sec.2, T.8 S., R.78 W., Summit County, Hydrologic Unit 14010002, on right bank at entrance to Hoosier Pass tunnel, 1.4 mi northwest of Hoosier Pass, 1.6 mi downstream from diversion point on Bemrose Creek, and 7 mi southwest of Breckenridge.

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

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

REMARKS.--Estimated daily discharges: Apr. 1 to June 9, and July 5-7. 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 SW¹/4SW¹/4 sec.6, T.8 S., R.77 W., and in sec.12, T.8 S., R.78 W. The entire flow is regulated by diversion gates.

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	---	---	---	---	---	.00	.00	.00	7.3	11	4.2
2	.00	---	---	---	---	---	.00	.00	.00	6.5	10	4.0
3	.00	---	---	---	---	---	.00	.00	.00	6.8	9.7	3.8
4	.00	---	---	---	---	---	.00	.00	.00	3.5	9.3	3.7
5	.00	---	---	---	---	---	.00	.00	.00	.72	8.8	3.6
6	.00	---	---	---	---	---	.00	.00	3.0	2.4	8.4	3.5
7	.00	---	---	---	---	---	.00	.00	3.0	4.5	8.0	3.5
8	.00	---	---	---	---	---	.00	.00	3.0	7.1	7.8	3.8
9	.00	---	---	---	---	---	.00	.00	4.2	8.3	7.4	3.7
10	.00	---	---	---	---	---	.00	.00	2.9	8.3	7.1	3.4
11	.00	---	---	---	---	---	.00	.00	4.9	11	6.8	3.2
12	.00	---	---	---	---	---	.00	.00	8.3	15	6.7	3.0
13	.00	---	---	---	---	---	.00	.00	8.7	26	6.5	2.9
14	.00	---	---	---	---	---	.00	.00	14	29	6.2	2.9
15	.00	---	---	---	---	---	.00	.00	19	24	5.8	2.8
16	.00	---	---	---	---	---	.00	.00	21	23	5.5	2.7
17	.00	---	---	---	---	---	.00	.00	35	22	5.3	2.6
18	.00	---	---	---	---	---	.00	.00	30	20	5.0	2.7
19	.00	---	---	---	---	---	.00	.00	23	18	5.7	2.5
20	.00	---	---	---	---	---	.00	.00	27	18	5.0	2.6
21	.00	---	---	---	---	---	.00	.00	28	17	5.1	2.7
22	.00	---	---	---	---	---	.00	.00	29	15	5.0	2.4
23	.00	---	---	---	---	---	.00	.00	27	13	5.8	2.4
24	.00	---	---	---	---	---	.00	.00	24	11	5.6	2.4
25	.00	---	---	---	---	---	.00	.00	21	11	5.2	2.2
26	.00	---	---	---	---	---	.00	.00	24	9.8	5.1	2.2
27	.00	---	---	---	---	---	.00	.00	26	8.8	4.8	2.2
28	.00	---	---	---	---	---	.00	.00	18	8.0	5.4	2.3
29	.00	---	---	---	---	---	.00	.00	11	7.4	5.0	2.4
30	.00	---	---	---	---	---	.00	.00	9.3	5.5	4.6	2.3
31	.00	---	---	---	---	---	---	.00	---	7.3	4.4	---
TOTAL	0.00	---	---	---	---	---	0.00	0.00	424.30	375.22	202.0	88.6
MEAN	.000	---	---	---	---	---	.000	.000	14.1	12.1	6.52	2.95
MAX	.00	---	---	---	---	---	.00	.00	35	29	11	4.2
MIN	.00	---	---	---	---	---	.00	.00	.00	.72	4.4	2.2
AC-FT	.00	---	---	---	---	---	.00	.00	842	744	401	176

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

LOCATION.--Lat 39°22'51", long 106°04'14", in NE¹/₄SE¹/₄ sec.2, T.8 S., R.78 W., Summit County, Hydrologic Unit 14010002, on left bank at entrance to Hoosier Pass tunnel, 1.4 mi northwest of Hoosier Pass, 1.6 mi downstream from diversion point on McCullough Gulch, and 7 mi southwest of Breckenridge.

PERIOD OF RECORD.--October 1957 to current year (seasonal 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.--Estimated daily discharges: Oct. 1-31, Apr. 1 to June 9, June 23 to Aug. 19, Aug. 22-26, and Sept. 7-30. 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, 123 ft³/s, June 20, 1968; no flow for most of each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	---	---	---	---	---	.00	.00	.00	.00	.00	13
2	.00	---	---	---	---	---	.00	.00	.00	.00	.00	12
3	.00	---	---	---	---	---	.00	.00	.00	.00	.00	12
4	.00	---	---	---	---	---	.00	.00	.00	.00	.00	12
5	.00	---	---	---	---	---	.00	.00	.00	.00	.00	10
6	.00	---	---	---	---	---	.00	.00	3.0	.00	.00	11
7	.00	---	---	---	---	---	.00	.00	3.0	.67	.00	4.9
8	.00	---	---	---	---	---	.00	.00	3.0	2.9	.00	.00
9	.00	---	---	---	---	---	.00	.00	6.1	7.1	.00	.00
10	.00	---	---	---	---	---	.00	.00	5.1	2.6	.00	.00
11	.00	---	---	---	---	---	.00	.00	6.7	.00	.00	.00
12	.00	---	---	---	---	---	.00	.00	12	.00	.00	.00
13	.00	---	---	---	---	---	.00	.00	20	.00	.00	.00
14	.00	---	---	---	---	---	.00	.00	30	.00	.00	.00
15	.00	---	---	---	---	---	.00	.00	36	.00	.00	.00
16	.00	---	---	---	---	---	.00	.00	43	.00	.00	.00
17	.00	---	---	---	---	---	.00	.00	53	.00	.00	.00
18	.00	---	---	---	---	---	.00	.00	44	.00	.00	.00
19	.00	---	---	---	---	---	.00	.00	40	.00	12	.00
20	.00	---	---	---	---	---	.00	.00	44	.00	14	.00
21	.00	---	---	---	---	---	.00	.00	46	.00	16	.00
22	.00	---	---	---	---	---	.00	.00	44	.00	12	.00
23	.00	---	---	---	---	---	.00	.00	36	.00	.45	.00
24	.00	---	---	---	---	---	.00	.00	29	.00	3.0	.00
25	.00	---	---	---	---	---	.00	.00	26	.00	.00	.00
26	.00	---	---	---	---	---	.00	.00	30	.00	11	.00
27	.00	---	---	---	---	---	.00	.00	38	.00	13	.00
28	.00	---	---	---	---	---	.00	.00	16	.00	11	.00
29	.00	---	---	---	---	---	.00	.00	.31	.00	13	.00
30	.00	---	---	---	---	---	.00	.00	.00	.00	12	.00
31	.00	---	---	---	---	---	---	.00	---	.00	15	---
TOTAL	0.00	---	---	---	---	---	0.00	0.00	614.21	13.27	132.45	74.90
MEAN	.000	---	---	---	---	---	.000	.000	20.5	.43	4.27	2.50
MAX	.00	---	---	---	---	---	.00	.00	53	7.1	16	13
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.00	.00	1220	26	263	149

09046490 BLUE RIVER AT BLUE RIVER, CO

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

DRAINAGE AREA.--42.4 mi² (revised).

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

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

REMARKS.--Estimated daily discharges: Jan. 23, 30, and Feb. 11-13. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	11	8.5	4.9	4.6	5.3	4.5	8.0	46	333	181	52
2	18	12	8.4	4.7	4.4	4.8	4.2	8.4	67	313	165	48
3	18	12	8.0	4.9	4.1	4.7	4.1	9.2	75	315	162	40
4	18	12	7.9	4.4	3.9	4.3	4.2	8.7	93	282	153	37
5	19	11	7.9	4.7	3.9	4.2	4.8	9.8	116	239	151	35
6	20	11	8.1	4.6	4.1	4.8	5.2	10	147	259	140	35
7	19	11	8.1	4.2	4.1	4.2	5.4	10	142	312	140	36
8	19	12	8.0	4.1	4.2	4.0	6.0	11	135	351	140	64
9	18	11	7.0	3.9	4.5	4.3	8.1	9.6	132	403	149	68
10	17	11	7.2	3.9	4.1	4.4	7.2	9.8	108	437	133	61
11	16	10	7.5	4.0	4.4	4.2	6.3	13	103	513	140	55
12	15	10	7.3	4.0	4.6	4.4	6.0	12	137	578	157	50
13	14	11	7.6	4.3	4.8	4.2	6.3	12	187	524	147	44
14	14	9.9	7.7	4.8	4.9	3.9	6.8	12	239	535	139	41
15	15	8.7	7.3	4.3	5.1	4.0	6.2	20	284	432	114	40
16	15	8.8	7.2	5.0	4.3	4.5	6.6	29	319	403	103	37
17	16	9.4	6.9	5.1	3.9	4.6	8.1	32	434	394	97	35
18	16	9.2	6.8	4.7	4.2	4.1	7.7	24	557	351	102	37
19	15	8.8	6.7	5.3	4.3	4.9	7.8	26	422	328	104	38
20	14	8.8	6.3	5.4	4.6	4.6	7.2	31	418	319	86	37
21	14	9.2	6.2	4.4	4.7	4.6	6.9	37	454	293	71	41
22	13	9.5	6.3	4.7	4.7	5.2	6.4	50	484	262	79	35
23	13	8.4	6.3	5.0	4.5	4.6	6.7	64	440	238	103	32
24	13	8.0	6.3	5.3	4.5	4.8	7.3	62	403	211	162	30
25	13	7.8	6.3	5.0	4.4	5.3	6.9	50	360	209	125	28
26	12	8.1	6.1	4.8	4.6	5.6	8.2	41	364	228	105	27
27	12	8.1	5.7	5.1	4.8	4.8	6.9	43	391	224	85	25
28	12	8.6	5.7	4.9	5.7	4.8	7.3	40	415	214	80	25
29	11	8.3	5.5	4.7	---	4.7	8.0	39	426	215	75	30
30	12	8.5	5.5	4.9	---	4.9	8.3	38	368	203	67	32
31	12	---	5.6	4.9	---	4.6	---	36	---	217	57	---
TOTAL	471	293.1	215.9	144.9	124.9	142.3	195.6	805.5	8266	10135	3712	1195
MEAN	15.2	9.77	6.96	4.67	4.46	4.59	6.52	26.0	276	327	120	39.8
MAX	20	12	8.5	5.4	5.7	5.6	8.3	64	557	578	181	68
MIN	11	7.8	5.5	3.9	3.9	3.9	4.1	8.0	46	203	57	25
AC-FT	934	581	428	287	248	282	388	1600	16400	20100	7360	2370

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1995, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	19.0	13.6	10.2	7.47	5.71	5.33	12.2	56.7	119	88.9	45.6	26.7
MAX	32.2	26.5	18.9	14.3	8.11	7.96	21.9	114	276	327	120	44.3
(WY)	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	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	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1984 - 1995
ANNUAL TOTAL	8808.5	25701.2	
ANNUAL MEAN	24.1	70.4	34.4
HIGHEST ANNUAL MEAN			70.4
LOWEST ANNUAL MEAN			20.5
HIGHEST DAILY MEAN	109	578	578
LOWEST DAILY MEAN	3.1	3.9	3.1
ANNUAL SEVEN-DAY MINIMUM	3.6	4.1	3.2
INSTANTANEOUS PEAK FLOW		681	681
INSTANTANEOUS PEAK STAGE		3.23	3.23
ANNUAL RUNOFF (AC-FT)	17470	50980	24890
10 PERCENT EXCEEDS	60	260	82
50 PERCENT EXCEEDS	13	11	15
90 PERCENT EXCEEDS	4.1	4.4	5.2

a-Also occurred Jan 10, Feb 4, 5, 17, and Mar 14.

b-Also occurred Mar 13, 1993, and Apr 3, 1994.

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 mi².

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

REVISED RECORDS.--WSP 2124: Drainage area.

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, gage site 1.4 mi upstream at different datum. Prior to Oct. 20, 1994, gage site 200 ft upstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 1-20, Nov. 19 to Mar. 30, and April 1, 2. Records good except those 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 elsewhere in this report.

REVISIONS.--Revised mean daily discharges, in cubic feet per second, for periods in September 1994 are given below. These figures supersede those published in the report for 1994.

Sept. 16....53	Sept. 19....49	Sept. 22....49	Sept. 25....50	Sept. 28....45
17....52	20....49	23....48	26....47	29....44
18....50	21....49	24....51	27....46	30....43
		TOTAL	MAX	MIN
	September 1994	1712	57.1	43
	Water Year	25673	70.3	

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	39	24	17	17	18	19	37	204	770	360	128
2	43	39	24	17	17	17	20	40	244	710	320	121
3	43	39	24	17	18	16	20	45	283	732	305	115
4	43	40	25	17	18	16	21	47	342	666	297	107
5	45	39	25	17	18	16	22	52	385	589	287	103
6	46	38	25	17	18	16	25	58	438	567	273	100
7	46	38	25	17	18	16	28	62	449	645	264	100
8	46	38	25	17	18	16	31	61	463	703	261	108
9	48	38	25	16	18	16	33	57	474	784	263	133
10	46	38	25	17	18	16	32	58	412	811	251	127
11	45	37	25	17	18	16	31	66	376	876	245	120
12	44	37	25	17	18	16	30	76	407	961	261	115
13	43	37	25	17	19	16	29	79	469	904	258	107
14	42	36	25	17	19	16	31	84	519	880	251	99
15	43	35	25	17	19	16	31	106	598	792	234	96
16	43	33	23	17	19	16	30	138	668	777	210	95
17	43	32	22	17	19	16	31	157	805	752	199	92
18	42	31	22	17	19	16	31	153	1160	718	193	91
19	42	30	21	17	19	16	32	151	1080	688	193	95
20	42	30	20	17	19	16	32	158	1030	633	194	95
21	45	28	20	17	19	16	32	171	1040	586	177	105
22	44	28	20	17	19	17	31	189	1020	549	180	104
23	44	27	20	17	19	17	30	236	1030	504	193	95
24	43	26	20	17	19	17	30	260	952	455	242	89
25	42	26	20	17	19	17	29	243	849	425	236	85
26	42	25	20	17	19	18	30	215	816	439	205	82
27	43	25	19	17	19	19	30	201	819	431	180	79
28	41	25	18	17	19	21	31	194	834	409	171	77
29	41	25	18	17	---	22	34	192	866	406	163	79
30	41	25	18	17	---	20	36	198	802	388	152	87
31	40	---	18	17	---	21	---	198	---	407	140	---
TOTAL	1344	984	691	526	518	528	872	3982	19834	19957	7158	3029
MEAN	43.4	32.8	22.3	17.0	18.5	17.0	29.1	128	661	644	231	101
MAX	48	40	25	17	19	22	36	260	1160	961	360	133
MIN	40	25	18	16	17	16	19	37	204	388	140	77
AC-FT	2670	1950	1370	1040	1030	1050	1730	7900	39340	39580	14200	6010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1995, BY WATER YEAR (WY)

MEAN	51.4	38.5	30.9	26.1	24.1	23.5	39.4	168	335	204	105	67.7
MAX	101	74.4	54.0	40.3	36.0	32.5	77.7	333	661	644	241	143
(WY)	1985	1985	1984	1984	1983	1983	1985	1984	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 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1958 - 1995

ANNUAL TOTAL	25613	59423	
ANNUAL MEAN	70.2	163	a ₁₀₆
HIGHEST ANNUAL MEAN			168
LOWEST ANNUAL MEAN			45.8
HIGHEST DAILY MEAN	339	Jun 4	1160
LOWEST DAILY MEAN	b ₁₈	Mar 15	c ₁₆
ANNUAL SEVEN-DAY MINIMUM	19	Dec 25	16
INSTANTANEOUS PEAK FLOW			1390
INSTANTANEOUS PEAK STAGE			6.91
ANNUAL RUNOFF (AC-FT)	50800	117900	76800
10 PERCENT EXCEEDS	177	575	243
50 PERCENT EXCEEDS	43	40	44
90 PERCENT EXCEEDS	21	17	22

a-Adjusted for diversions to Hoosier Pass tunnel.

b-Also occurred Apr 1-3.

c-Also occurred Mar 3-21.

d-Also occurred Feb 13-14, 1993, Jan 9, and Mar 3-21, 1995.

09047500 SNAKE RIVER NEAR MONTEZUMA, CO

LOCATION.--Lat 39°36'20", long 105°56'33", in 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 mi².

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.--Estimated daily discharges: Nov. 8 to May 1. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	17	15	14	9.4	9.4	9.4	12	63	447	186	58
2	25	18	15	14	9.4	9.4	9.4	12	91	413	172	56
3	24	19	15	13	9.4	9.4	9.4	12	112	415	164	55
4	28	17	15	13	9.4	9.4	9.4	12	128	365	158	54
5	27	19	15	13	9.4	9.4	10	14	168	328	147	55
6	27	19	15	13	9.4	9.4	10	16	215	402	142	56
7	27	18	15	13	9.4	9.4	11	14	227	470	136	52
8	26	17	15	13	9.4	9.4	11	11	207	532	134	56
9	26	16	15	13	9.4	9.4	11	11	175	565	129	53
10	26	16	15	13	9.4	9.4	11	11	143	587	122	50
11	26	15	15	13	9.4	9.4	11	11	159	597	118	53
12	25	15	15	13	9.4	9.4	11	12	233	576	116	48
13	24	15	15	13	9.4	9.4	11	13	331	523	118	43
14	24	15	15	12	9.4	9.4	11	12	421	511	115	40
15	25	15	15	12	9.4	9.4	11	25	509	461	104	41
16	24	15	15	11	9.4	9.4	11	36	563	420	96	39
17	23	15	15	11	9.4	9.4	11	32	727	403	91	39
18	24	15	15	10	9.4	9.4	11	28	699	404	86	43
19	24	15	15	10	9.4	9.4	12	31	717	376	85	41
20	22	15	15	10	9.4	9.4	12	35	736	361	82	43
21	23	15	15	10	9.4	9.4	12	38	846	333	97	48
22	23	15	15	10	9.4	9.4	12	53	870	308	116	41
23	22	15	15	10	9.4	9.4	12	64	708	280	92	40
24	21	15	15	10	9.4	9.4	12	59	622	260	88	40
25	19	15	15	10	9.4	9.4	12	50	580	253	89	38
26	19	15	15	10	9.4	9.0	12	44	630	248	85	39
27	19	15	15	10	9.4	9.4	12	44	671	234	80	37
28	19	15	15	10	9.4	9.4	12	39	650	224	79	38
29	19	15	15	10	---	9.4	12	42	571	214	76	42
30	19	15	15	9.4	---	9.4	12	49	479	210	69	41
31	19	---	15	9.4	---	9.4	---	48	---	212	63	---
TOTAL	725	476	465	355.8	263.2	291.0	333.6	890	13251	11932	3435	1379
MEAN	23.4	15.9	15.0	11.5	9.40	9.39	11.1	28.7	442	385	111	46.0
MAX	28	19	15	14	9.4	9.4	12	64	870	597	186	58
MIN	19	15	15	9.4	9.4	9.0	9.4	11	63	210	63	37
AC-FT	1440	944	922	706	522	577	662	1770	26280	23670	6810	2740

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1995, BY WATER YEAR (WY)

	MEAN	27.1	19.5	15.2	11.8	10.5	10.5	18.0	96.0	281	147	65.7	37.8
MAX	66.9	39.5	25.9	18.0	16.0	14.9	35.4	216	465	385	177	90.7	
(WY)	1985	1985	1985	1985	1987	1985	1946	1958	1952	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 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1943 - 1995
ANNUAL TOTAL	18302.2	33796.6	
ANNUAL MEAN	50.1	92.6	61.7
HIGHEST ANNUAL MEAN			94.6
LOWEST ANNUAL MEAN			35.1
HIGHEST DAILY MEAN	433	870	870
LOWEST DAILY MEAN	a 8.4	9.0	5.0
ANNUAL SEVEN-DAY MINIMUM	8.6	9.3	6.0
INSTANTANEOUS PEAK FLOW		1110	1250
INSTANTANEOUS PEAK STAGE		3.71	b 3.71
ANNUAL RUNOFF (AC-FT)	36300	67040	44730
10 PERCENT EXCEEDS	180	344	173
50 PERCENT EXCEEDS	21	15	22
90 PERCENT EXCEEDS	10	9.4	10

a-Also occurred Mar 6, 7.

b-Maximum gage height, 3.88 ft, Jun 6, 1972.

09047700 KEYSTONE GULCH NEAR DILLON, CO

LOCATION.--Lat 39°35'40", long 105°58'19", in NE¹/4NE¹/4 sec.26, T.5 S., R.77 W., Summit County, Hydrologic Unit 14010002, on right bank 0.7 mi upstream from mouth and 4.7 mi southeast of Dillon.

DRAINAGE AREA.--9.10 mi².

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

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 9,350 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 1-3, and Nov. 8 to May 1. Records good except for estimated daily discharges, which are poor. No known diversion upstream from station. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.2	3.0	2.8	2.2	2.2	2.2	2.5	14	47	12	5.0
2	2.3	2.3	3.0	2.8	2.2	2.2	2.2	2.5	17	45	12	4.9
3	2.3	2.4	3.0	2.8	2.2	2.2	2.2	2.5	21	44	11	4.6
4	2.5	2.4	3.0	2.8	2.2	2.2	2.2	2.8	23	44	11	4.7
5	2.4	2.6	3.0	2.8	2.2	2.2	2.3	3.3	28	41	10	4.7
6	2.6	1.7	3.0	2.8	2.2	2.2	2.5	3.5	31	40	9.8	4.7
7	2.6	2.3	3.1	2.8	2.2	2.2	2.5	3.5	31	44	9.7	4.5
8	2.7	2.2	3.2	2.7	2.2	2.2	2.5	3.4	29	43	9.3	5.3
9	2.7	2.1	3.4	2.6	2.2	2.2	2.5	3.2	27	43	8.8	4.8
10	2.7	2.0	3.4	2.5	2.2	2.2	2.5	3.3	24	43	8.5	4.7
11	2.5	2.0	3.4	2.5	2.2	2.2	2.5	3.9	29	42	8.4	5.1
12	2.4	2.0	3.4	2.5	2.2	2.2	2.5	4.0	39	40	8.1	4.7
13	2.3	2.0	3.4	2.5	2.2	2.2	2.5	4.0	47	38	8.4	4.5
14	2.3	2.2	3.4	2.5	2.2	2.2	2.5	5.5	58	38	8.4	4.4
15	2.3	2.2	3.3	2.5	2.2	2.2	2.5	9.0	73	35	7.8	4.2
16	2.3	2.2	3.3	2.5	2.2	2.2	2.5	8.7	86	32	7.0	4.0
17	2.2	2.4	3.3	2.5	2.2	2.2	2.5	7.2	120	31	6.8	4.0
18	2.3	2.5	3.3	2.5	2.2	2.2	2.5	6.6	153	30	6.5	4.7
19	2.3	2.5	3.3	2.5	2.2	2.2	2.5	7.8	128	27	6.5	4.3
20	2.4	2.5	3.1	2.5	2.2	2.2	2.5	8.2	127	25	6.0	4.6
21	2.3	2.5	3.0	2.5	2.2	2.2	2.5	8.8	104	22	6.9	5.2
22	2.3	2.5	3.0	2.5	2.2	2.2	2.5	11	91	21	9.0	4.2
23	2.3	2.5	3.0	2.5	2.2	2.2	2.5	9.1	70	21	8.1	3.9
24	2.3	2.6	3.0	2.5	2.2	2.2	2.5	6.7	63	20	7.9	3.9
25	2.4	2.7	3.0	2.5	2.2	2.2	2.5	5.9	60	19	7.7	3.9
26	2.5	2.8	3.0	2.5	2.2	2.2	2.5	4.6	58	18	7.5	3.8
27	2.7	2.9	2.9	2.4	2.2	2.2	2.5	4.7	58	17	6.8	3.7
28	2.6	3.0	2.8	2.4	2.2	2.2	2.5	8.6	54	15	6.6	4.0
29	2.8	3.0	2.8	2.3	---	2.2	2.5	10	50	14	6.2	5.1
30	3.2	3.0	2.8	2.2	---	2.2	2.5	11	50	14	6.0	4.9
31	2.1	---	2.8	2.2	---	2.2	---	9.9	---	13	5.6	---
TOTAL	75.9	72.2	96.4	78.9	61.6	68.2	73.6	185.7	1763	966	254.3	135.0
MEAN	2.45	2.41	3.11	2.55	2.20	2.20	2.45	5.99	58.8	31.2	8.20	4.50
MAX	3.2	3.0	3.4	2.8	2.2	2.2	2.5	11	153	47	12	5.3
MIN	2.1	1.7	2.8	2.2	2.2	2.2	2.2	2.5	14	13	5.6	3.7
AC-FT	151	143	191	156	122	135	146	368	3500	1920	504	268

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1995, BY WATER YEAR (WY)

	3.34	2.92	2.50	2.16	2.01	2.04	3.08	11.9	24.1	10.2	5.31	3.76
MEAN	3.34	2.92	2.50	2.16	2.01	2.04	3.08	11.9	24.1	10.2	5.31	3.76
MAX	6.12	4.33	3.68	2.85	2.80	3.00	6.19	31.0	58.8	31.2	15.5	7.97
(WY)	1985	1985	1966	1971	1991	1986	1986	1984	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1958 - 1995

ANNUAL TOTAL	1551.0	3830.8	
ANNUAL MEAN	4.25	10.5	6.11
HIGHEST ANNUAL MEAN			13.1
LOWEST ANNUAL MEAN			3.10
HIGHEST DAILY MEAN	a ₁₉	153	153
LOWEST DAILY MEAN	1.7	1.7	1.1
ANNUAL SEVEN-DAY MINIMUM	2.0	2.0	1.3
INSTANTANEOUS PEAK FLOW		b ₃₁₁	b ₃₁₁
INSTANTANEOUS PEAK STAGE		3.47	3.47
ANNUAL RUNOFF (AC-FT)	3080	7600	4430
10 PERCENT EXCEEDS	8.7	31	14
50 PERCENT EXCEEDS	2.9	2.8	3.0
90 PERCENT EXCEEDS	2.3	2.2	1.9

a-Also occurred May 20.

b-From rating curve extended above 65 ft³/s.

09050100 TENMILE CREEK BELOW NORTH TENMILE CREEK AT FRISCO, CO

LOCATION.--Lat 39°34'31", long 106°06'36", in SE¹/4NW¹/4 sec.34, T.5 S., R.78 W., Summit County, Hydrologic Unit 14010002, on right bank 220 ft upstream from bridge on U.S. Highway 6, 160 ft downstream from North Tenmile Creek, and 0.6 mi west of Frisco.

DRAINAGE AREA.--93.3 mi².

PERIOD OF RECORD.--October 1957 to current year. Prior to October 1971, published as "below North Fork, at Frisco."

GAGE.--Water-stage recorder. 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.--Estimated daily discharges: Nov. 8 to Apr. 2, and June 27-29. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	18	15	12	13	25	30	36	209	814	234	86
2	31	17	15	11	13	25	30	38	259	772	211	84
3	29	17	15	12	14	25	30	40	295	843	197	82
4	27	18	15	12	14	25	35	38	384	740	189	76
5	26	19	15	12	15	25	37	39	472	697	180	75
6	30	17	15	12	16	25	41	42	554	695	173	78
7	29	18	15	12	16	25	42	45	554	733	166	71
8	28	17	15	12	17	25	45	47	581	790	163	98
9	24	16	14	12	18	25	51	45	560	849	158	91
10	21	15	14	12	19	25	48	44	416	877	148	82
11	19	15	14	12	19	27	46	54	447	896	145	77
12	15	15	14	12	20	27	41	57	598	928	143	72
13	8.4	15	14	12	21	27	42	54	731	851	153	71
14	5.3	15	14	12	21	27	44	58	812	806	144	71
15	13	15	14	12	22	27	40	83	957	723	131	69
16	19	15	14	12	23	27	38	105	1060	669	119	65
17	18	15	13	13	23	29	40	106	1220	625	110	65
18	20	15	13	13	24	29	39	93	1300	593	105	68
19	18	15	13	13	25	29	36	98	1110	555	104	73
20	17	15	13	13	25	29	37	115	1160	524	103	72
21	16	15	13	13	25	29	37	124	1210	476	114	80
22	15	15	13	13	25	29	37	156	1220	435	135	71
23	15	15	13	13	25	29	36	186	1110	411	124	67
24	18	15	13	13	25	30	35	178	987	380	184	61
25	18	15	13	13	25	32	34	163	932	361	139	47
26	18	15	13	13	25	32	35	152	961	347	136	42
27	18	15	13	13	25	32	32	158	1050	323	132	41
28	18	15	12	13	25	32	33	153	1100	302	124	43
29	17	15	12	13	---	32	35	157	940	283	114	54
30	18	15	12	13	---	32	36	159	844	270	100	56
31	21	---	12	13	---	31	---	168	---	260	95	---
TOTAL	622.7	472	423	386	578	868	1142	2991	24033	18828	4473	2088
MEAN	20.1	15.7	13.6	12.5	20.6	28.0	38.1	96.5	801	607	144	69.6
MAX	33	19	15	13	25	32	51	186	1300	928	234	98
MIN	5.3	15	12	11	13	25	30	36	209	260	95	41
AC-FT	1240	936	839	766	1150	1720	2270	5930	47670	37350	8870	4140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1995, BY WATER YEAR (WY)

	MEAN	31.6	24.5	19.1	16.4	16.7	18.4	37.3	245	472	197	73.8	43.6
MAX	77.7	76.2	34.5	34.0	33.8	46.0	95.0	468	805	607	251	127	
(WY)	1985	1985	1994	1994	1983	1983	1962	1970	1983	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 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1958 - 1995

ANNUAL TOTAL	29305.7	56904.7	
ANNUAL MEAN	80.3	156	99.8
HIGHEST ANNUAL MEAN			183
LOWEST ANNUAL MEAN			47.0
HIGHEST DAILY MEAN	652	1300	1480
LOWEST DAILY MEAN	5.3	5.3	5.3
ANNUAL SEVEN-DAY MINIMUM	12	12	7.9
INSTANTANEOUS PEAK FLOW		1760	1910
INSTANTANEOUS PEAK STAGE		5.14	6.15
ANNUAL RUNOFF (AC-FT)	58130	112900	72290
10 PERCENT EXCEEDS	252	595	316
50 PERCENT EXCEEDS	34	32	30
90 PERCENT EXCEEDS	15	13	13

a-From rating curve extended above 750 ft³/s.

09050700 BLUE RIVER BELOW DILLON, CO

LOCATION.--Lat 39°37'32", long 106°03'57", in SE¹/4SE¹/4 sec.12, T.5 S., R.78 W., Summit County, Hydrologic Unit 14010002, on right bank 0.3 mi downstream from Dillon Dam, 0.1 mi upstream from Straight Creek, and 1.1 mi west of Dillon.

DRAINAGE AREA.--335 mi².

PERIOD OF RECORD.--January 1960 to current year. Statistical summary computed for 1963 to current year.

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Elevation of gage is 8,760 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since Sept. 3, 1963, by Dillon Reservoir, 0.3 mi upstream (station 09050600). Natural flow of stream affected by transmountain diversions, transbasin diversions, and diversions upstream from station for irrigation of about 400 acres of hay meadows. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	101	104	101	55	79	101	50	1170	1400	892	213
2	103	101	104	99	55	94	101	53	1160	1410	863	201
3	103	103	103	99	53	95	100	55	1160	1180	815	197
4	104	103	102	86	53	95	101	55	1160	964	768	194
5	103	104	101	58	53	97	101	54	1160	966	731	187
6	104	104	102	55	54	98	101	79	1160	905	699	182
7	104	104	101	55	53	108	101	95	1160	951	671	180
8	103	103	101	55	54	116	101	95	1160	1190	646	204
9	104	104	101	55	54	119	101	97	1160	1510	630	229
10	104	104	101	55	54	119	101	96	1160	1770	614	243
11	104	104	101	55	55	116	101	95	1160	1880	594	255
12	103	103	101	55	55	116	101	95	1160	1880	580	259
13	103	103	101	55	55	116	102	95	1160	1920	583	255
14	102	104	101	55	54	116	103	97	1170	1870	573	249
15	104	104	100	55	54	116	104	99	1170	1800	563	244
16	104	103	101	55	55	116	103	101	1170	1800	539	239
17	104	105	101	55	55	111	104	134	1180	1830	503	232
18	95	104	101	55	55	99	104	235	1190	1860	476	230
19	79	104	101	55	55	99	102	389	1200	1830	451	227
20	79	104	101	55	53	99	103	537	1200	1780	439	232
21	79	104	101	53	53	99	90	634	1210	1670	434	250
22	79	104	101	53	54	99	56	740	1220	1490	442	246
23	79	104	101	53	53	99	51	874	1240	1330	431	237
24	77	104	101	53	53	100	51	927	1240	1210	444	227
25	76	104	101	53	53	101	51	923	1100	1090	456	221
26	77	104	101	54	53	101	51	917	973	995	449	216
27	79	104	101	55	53	101	51	916	978	928	434	209
28	79	104	101	55	56	101	51	915	1200	793	414	201
29	78	104	101	55	---	101	51	916	1400	741	374	206
30	79	104	99	55	---	101	51	953	1400	834	308	210
31	93	---	100	55	---	101	---	1110	---	886	254	---
TOTAL	2888	3109	3137	1862	1512	3228	2590	12431	35331	42663	17070	6675
MEAN	93.2	104	101	60.1	54.0	104	86.3	401	1178	1376	551	222
MAX	104	105	104	101	56	119	104	1110	1400	1920	892	259
MIN	76	101	99	53	53	79	51	50	973	741	254	180
AC-FT	5730	6170	6220	3690	3000	6400	5140	24660	70080	84620	33860	13240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1995, BY WATER YEAR (WY)

	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	111	90.7	82.7	72.6	74.2	75.7	109	301	685	445	252	162																					
MAX	243	268	193	158	136	126	217	1101	1813	1476	999	348																					
(WY)	1987	1985	1985	1966	1984	1983	1985	1984	1984	1984	1984	1983																					
MIN	1000	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1963 - 1995

ANNUAL TOTAL	46101	132496	
ANNUAL MEAN	126	363	205
HIGHEST ANNUAL MEAN			538
LOWEST ANNUAL MEAN			65.5
HIGHEST DAILY MEAN	564	1920	1940
LOWEST DAILY MEAN	a71	50	b.00
ANNUAL SEVEN-DAY MINIMUM	71	51	.00
INSTANTANEOUS PEAK FLOW		2000	2010
INSTANTANEOUS PEAK STAGE		3.76	c3.88
ANNUAL RUNOFF (AC-FT)	91440	262800	148800
10 PERCENT EXCEEDS	240	1160	455
50 PERCENT EXCEEDS	101	104	101
90 PERCENT EXCEEDS	75	55	51

a-Also occurred Jan 20 to Feb 7.

b-Also occurred Sep 5 to Nov 19, 1963.

c-Maximum gage height for period of record, 3.95 ft, Jun 22, 1983.

09051050 STRAIGHT CREEK BELOW LASKEY GULCH, NEAR DILLON, CO

LOCATION.--Lat 39°38'23", long 106°02'23", in SW¹/4SW¹/4 sec.5, T.5 S., R.77 W., Summit County, Hydrologic Unit 14010002, on right bank, 120 ft upstream from culverts on Deer Trail Drive, in the community of Dillon Valley, 0.9 mi north of Dillon, 1.1 mi downstream of Laskey Gulch, and 1.8 mi upstream from mouth.

DRAINAGE AREA.--18.3 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 9,070 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 8 to May 2, June 30 to July 5, and Aug. 1 to Sept. 11. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	7.5	3.9	3.7	4.9	5.2	2.8	5.0	15	76	46	14
2	6.9	6.6	3.8	3.7	5.0	4.9	2.8	5.5	21	78	40	13
3	6.5	6.6	3.7	3.7	5.2	4.7	2.8	5.4	24	79	38	13
4	7.2	6.2	3.7	3.8	5.2	4.7	2.8	5.6	29	79	35	13
5	7.2	7.1	3.7	3.8	5.2	4.7	2.9	5.8	38	80	32	13
6	7.5	7.1	3.7	3.9	5.2	4.7	2.9	5.9	50	90	31	13
7	7.5	6.6	3.7	4.0	5.2	4.7	3.0	5.7	54	103	29	13
8	7.9	6.5	3.7	4.0	5.2	4.7	3.1	5.2	52	113	28	13
9	7.6	6.0	3.7	4.0	5.2	4.3	3.2	5.6	43	122	27	13
10	7.7	5.6	3.7	4.0	5.2	4.2	3.2	6.7	32	129	25	14
11	7.3	5.4	3.7	4.0	5.2	4.0	3.2	7.3	37	145	24	16
12	7.0	5.2	3.7	4.0	5.4	3.8	3.2	7.3	59	155	23	15
13	6.9	4.9	3.7	4.0	5.4	3.8	3.3	6.5	81	141	22	13
14	6.7	4.6	3.7	4.0	5.6	3.8	3.4	8.0	101	140	22	13
15	6.9	4.5	3.7	4.0	5.6	3.8	3.4	12	119	126	21	12
16	6.8	4.5	3.7	4.0	5.6	3.8	3.5	12	151	115	20	12
17	6.6	4.5	3.7	4.0	5.8	3.8	3.7	12	226	106	19	12
18	7.0	4.5	3.7	4.0	5.8	3.5	3.8	9.5	124	100	18	13
19	6.9	4.5	3.7	4.0	6.0	3.4	3.9	10	111	88	17	13
20	6.5	4.5	3.7	4.0	6.0	3.2	3.9	11	135	82	17	14
21	6.8	4.4	3.7	4.1	6.0	3.1	3.9	12	159	76	19	16
22	6.8	4.3	3.7	4.1	6.0	3.0	3.9	15	120	72	22	14
23	6.6	4.3	3.7	4.2	6.0	2.8	3.9	16	103	69	21	13
24	6.4	4.2	3.7	4.3	6.0	2.8	3.9	15	93	61	20	13
25	6.4	4.1	3.7	4.3	6.0	2.8	3.9	14	89	51	19	13
26	6.4	4.0	3.7	4.4	6.0	2.6	4.0	12	93	49	18	13
27	6.6	4.0	3.7	4.5	6.0	2.8	4.2	12	101	45	18	13
28	6.7	4.0	3.7	4.6	6.0	2.8	4.8	11	94	43	17	13
29	6.7	4.0	3.7	4.6	---	2.8	4.5	11	95	44	16	13
30	6.7	3.9	3.7	4.7	---	2.8	4.8	11	76	53	15	13
31	5.8	---	3.7	4.8	---	2.8	---	12	---	49	14	---
TOTAL	213.6	154.1	115.0	127.2	155.9	114.8	106.6	293.0	2525	2759	733	399
MEAN	6.89	5.14	3.71	4.10	5.57	3.70	3.55	9.45	84.2	89.0	23.6	13.3
MAX	7.9	7.5	3.9	4.8	6.0	5.2	4.8	16	226	155	46	16
MIN	5.8	3.9	3.7	3.7	4.9	2.6	2.8	5.0	15	43	14	12
AC-FT	424	306	228	252	309	228	211	581	5010	5470	1450	791

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1995, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1987	1988	1989
MEAN	6.66	5.61	4.37	3.79	3.65	3.96	6.18	22.1	59.7	31.0	12.2	7.87
MAX	9.62	7.79	5.14	4.63	5.57	5.40	9.99	28.9	85.5	89.0	23.6	13.3
(WY)	1987	1989	1989	1989	1995	1989	1989	1994	1993	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1987 - 1995

ANNUAL TOTAL	4100.5	7696.2	
ANNUAL MEAN	11.2	21.1	13.9
HIGHEST ANNUAL MEAN			21.1
LOWEST ANNUAL MEAN			10.9
HIGHEST DAILY MEAN	a62	May 31	226
LOWEST DAILY MEAN	3.4	Feb 15	2.6
ANNUAL SEVEN-DAY MINIMUM	3.5	Feb 9	2.8
INSTANTANEOUS PEAK FLOW			b416
INSTANTANEOUS PEAK STAGE			5.78
ANNUAL RUNOFF (AC-FT)	8130	15270	10100
10 PERCENT EXCEEDS	35	77	37
50 PERCENT EXCEEDS	6.6	6.0	6.1
90 PERCENT EXCEEDS	3.5	3.7	3.5

a-Also occurred Jun 4-5.

b-From rating curve extended above 150 ft³/s.

RESERVOIRS IN BLUE RIVER BASIN

09050600 DILLON RESERVOIR.--Lat 39°37'14", long 106°03'53", in NE¹/₄ 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 mi². 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, 258,300 acre-ft, July 30-31, elevation, 9,018.30 ft; minimum, 180,700 acre-ft, June 4, elevation, 8.990.83 ft.

09057000 GREEN MOUNTAIN RESERVOIR.--Lat 39°52'42", long 106°19'45", in NE¹/₄ 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 mi², includes 15.3 mi² 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 11, elevation, 7,949.86 ft; minimum, 55,570 acre-ft, Apr. 30, elevation, 7,892.80 ft.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation a(feet)	Contents (acre-feet)	Change in contents (acre-feet)	Gage height a(feet)	Contents (acre-feet)	Change in contents (acre-feet)
09050600 DILLON RESERVOIR				09057000 GREEN MOUNTAIN RESERVOIR		
Sept. 30.....	9,010.77	234,600	-	7,916.30	85,900	-
Oct. 31.....	9,010.72	234,400	-200	7,907.36	73,340	-12,560
Nov. 30.....	9,009.04	229,400	-5,000	7,906.11	71,680	-1,660
Dec. 31.....	9,005.97	220,500	-8,900	7,903.60	68,430	-3,250
CAL YR 1994....			-800			-34,270
Jan. 31.....	9,004.22	215,600	-4,900	7,898.76	62,430	-6,000
Feb. 28.....	9,002.89	211,900	-3,700	7,895.80	58,950	-3,480
Mar. 31.....	8,999.43	202,500	-9,400	7,894.98	58,010	-940
Apr. 30.....	8,994.80	190,500	-12,000	7,892.80	55,570	-2,440
May 31.....	8,991.72	182,900	-7,600	7,916.86	86,730	+31,160
June 30.....	9,011.40	236,500	+53,600	7,948.22	143,000	+56,270
July 31.....	9,018.30	258,300	+21,800	7,948.39	143,400	+400
Aug. 31.....	9,017.39	255,300	-3,000	7,948.95	144,600	+1,200
Sept. 30.....	9,017.35	255,200	-100	7,947.64	141,800	-2,800
WTR YR 1995....			+20,600			+55,900

a-Above sea level.

09057500 BLUE RIVER BELOW GREEN MOUNTAIN RESERVOIR, CO

LOCATION.--Lat 39°52'49", long 106°20'00", in SW¹/4NE¹/4 sec.15, T.2 S., R.80 W., Summit County, Hydrologic Unit 14010002, on left bank 0.3 mi upstream from Elliott Creek, 0.3 mi downstream from Green Mountain Dam, and 13 mi southeast of Kremmling.

DRAINAGE AREA.--599 mi², includes 15.3 mi² of Elliott Creek above diversion for Elliott Creek feeder canal.

PERIOD OF RECORD.--October 1937 to current year. Prior to October 1943, published as Blue River below Green Mountain Reservoir, near Kremmling. Statistical summary computed for 1943 to current year. Water-quality data available, January 1986 to September 1987.

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,682.66 ft above sea level, (levels by U.S. Bureau of Reclamation). Prior to Oct. 1, 1951, water-stage recorder at site 3.7 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Green Mountain Reservoir since November 1942 (station 09057000). Diversions for irrigation of about 5,000 acres upstream from station. Transmountain diversions upstream from station (see elsewhere in this report). Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	395	103	194	196	203	149	199	124	637	2200	1450	498
2	395	129	194	198	199	149	199	57	754	2210	1450	498
3	395	199	194	200	200	149	199	60	758	2250	1310	499
4	393	198	194	201	194	149	206	61	763	2340	1200	500
5	393	200	193	195	190	149	219	63	765	2360	1210	460
6	396	200	189	198	190	149	219	62	796	2270	1210	392
7	397	198	191	187	194	149	219	61	796	2160	1120	388
8	399	199	190	189	195	149	220	61	846	2170	1000	386
9	399	202	191	192	196	149	219	61	1010	2200	993	387
10	399	202	200	200	167	149	231	61	1010	2370	995	388
11	399	202	204	194	143	149	240	60	1000	3100	997	390
12	398	202	196	186	142	149	239	62	1130	4010	997	388
13	394	201	204	190	143	164	239	63	1390	3990	1000	389
14	398	200	197	189	144	180	240	62	1550	3750	975	377
15	397	198	192	187	142	202	239	64	1610	3470	942	398
16	400	197	189	194	138	213	239	128	1520	3440	921	397
17	401	197	200	197	144	217	240	251	1460	3170	854	395
18	399	196	196	189	146	217	240	251	1480	2720	744	394
19	402	196	200	201	146	217	240	254	1490	2730	671	393
20	403	196	197	190	145	206	240	253	1460	2720	672	391
21	402	196	194	190	149	199	240	253	1480	2720	673	391
22	400	196	192	192	146	200	240	254	1480	2650	678	390
23	397	195	194	192	149	199	240	254	1470	2470	694	389
24	395	195	191	200	149	200	240	253	1480	2190	755	388
25	401	195	188	211	149	200	224	252	1490	1640	867	387
26	401	195	188	193	149	200	200	247	1570	1460	900	386
27	400	195	188	195	149	199	200	247	1650	1460	894	384
28	217	195	198	196	149	200	200	249	1740	1460	836	383
29	196	195	200	195	---	200	201	249	1900	1460	715	383
30	100	194	200	200	---	199	201	315	2110	1460	666	385
31	102	---	197	201	---	200	---	457	---	1460	568	---
TOTAL	11363	5766	6035	6038	4550	5600	6712	5149	38595	76060	28957	12174
MEAN	367	192	195	195	162	181	224	166	1286	2454	934	406
MAX	403	202	204	211	203	217	240	457	2110	4010	1450	500
MIN	100	103	188	186	138	149	199	57	637	1460	568	377
AC-FT	22540	11440	11970	11980	9020	11110	13310	10210	76550	150900	57440	24150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1995, BY WATER YEAR (WY)

	MEAN	379	292	307	302	289	311	381	533	726	806	617	496
MAX	1258	800	580	566	559	864	802	1557	2134	2536	1547	846	
(WY)	1963	1963	1947	1948	1962	1962	1952	1984	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1943 - 1995

ANNUAL TOTAL	114826	206999		
ANNUAL MEAN	315	567		
HIGHEST ANNUAL MEAN			946	1984
LOWEST ANNUAL MEAN			200	1964
HIGHEST DAILY MEAN	703	Aug 13	4010	Jul 12 1995
LOWEST DAILY MEAN	^a 69	Jun 8	57	May 2
ANNUAL SEVEN-DAY MINIMUM	70	Jun 8	61	May 2
INSTANTANEOUS PEAK FLOW			4040	Jul 12
INSTANTANEOUS PEAK STAGE			10.85	Jul 12
ANNUAL RUNOFF (AC-FT)	227800	410600		
10 PERCENT EXCEEDS	542	1480	839	
50 PERCENT EXCEEDS	366	219	362	
90 PERCENT EXCEEDS	104	149	121	

a-Also occurred Jun 9.

b-No flow at times in 1943.

c-Minimum daily discharge (prior to Green Mountain Reservoir), 80 ft³/s, Feb 18-24, 1938, Feb 18 and 19, 1940.

BLUE RIVER BASIN

09057700 BLUE RIVER AT MOUTH, NEAR KREMMLING, CO

WATER-QUALITY RECORDS

LOCATION.--Lat. 40°01'45", long 106°23'09", in SW1/4SW1/4 sec.20, T.1 N, R.80 W., Grand County, Hydrologic Unit 14010002, datum established on the Trough Road bridge transecting the Blue River.

DRAINAGE AREA.--682 mi².

PERIOD OF RECORD.--April 1995 to September 1995. Published as miscellaneous water-quality data 1969 to 1972.

REMARKS.--Residue, dissolved, based on low-level methods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
APR 25...	1300	258	253	8.4	4.0	10.9	152
MAY 11...	1215	105	245	8.8	6.0	--	150
JUN 21...	1545	1700	224	8.3	14.0	8.1	140
JUL 14...	1030	4330	192	8.1	11.0	7.9	114
AUG 29...	1500	687	178	8.2	15.0	8.1	90
SEP 20...	0955	413	175	8.3	11.0	8.2	100

09058000 COLORADO RIVER NEAR KREMMLING, CO

LOCATION.--Lat 40°02'12", long 106°26'22", in NE¹/4SW¹/4 sec.23, T.1 N., R.81 W., Grand County, Hydrologic Unit 14010001, on right bank at upstream end of Gore Canyon, 3.0 mi southwest of Kremmling and 3.8 mi downstream from Blue River.

DRAINAGE AREA.--2,382 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1904 to September 1918 (published as Grand River near Kremmling), October 1961 to September 1970, October 1971 to current year. Statistical summary computed for 1962 to current year.

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,320 ft above sea level, from topographic map. See WSP 1313 for history of changes prior to Oct. 1, 1961.

REMARKS.--Estimated daily discharges: Dec. 2, 3, 11-29, Dec. 31 to Jan. 11, 13-15, 17-19, 21-31. Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, diversions for irrigation of about 40,000 acres upstream from station, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	699	315	361	367	357	325	412	873	1990	4530	2600	806
2	712	311	360	369	350	317	439	642	2270	4480	2640	791
3	699	377	360	370	349	321	445	610	2620	4560	2420	793
4	695	395	361	364	345	328	465	531	2900	4840	2090	796
5	682	393	371	360	340	315	513	612	3070	4670	2010	801
6	644	388	373	357	340	319	546	658	3090	4280	1930	731
7	660	393	368	354	345	300	600	680	3390	3930	1820	706
8	649	396	372	355	346	323	610	655	3540	3980	1630	753
9	638	408	302	357	350	323	638	586	3990	3990	1560	765
10	641	393	347	361	343	330	578	620	4280	4200	1540	740
11	627	392	370	357	303	345	577	710	3700	5200	1530	738
12	626	397	368	365	298	366	560	777	3440	6680	1510	743
13	626	413	372	360	296	365	613	821	3840	6950	1540	779
14	623	403	365	348	299	399	662	805	4390	7020	1540	748
15	621	380	360	350	301	420	679	830	4740	6750	1510	714
16	625	379	358	352	310	483	614	984	5080	6210	1490	707
17	627	357	368	352	301	520	630	1210	5110	5770	1350	699
18	641	351	364	350	317	532	656	1320	5350	5060	1190	699
19	669	376	367	356	304	575	645	1240	5320	4960	1060	707
20	644	370	363	349	302	523	640	1190	4720	4850	1060	710
21	638	389	361	354	300	497	632	973	4420	5160	1070	714
22	637	369	359	356	300	545	623	1030	4370	5320	1110	725
23	628	319	363	358	298	516	623	1030	4230	5120	1120	709
24	628	348	361	362	303	519	625	1090	3950	4760	1070	705
25	626	390	359	365	304	498	622	1260	3730	3970	1160	704
26	626	362	367	362	312	477	620	1470	3550	3290	1190	707
27	626	372	370	360	318	460	632	1350	3560	2920	1210	700
28	539	350	372	362	321	458	626	1290	3630	2800	1200	703
29	451	335	368	362	---	445	650	1280	3920	2700	1030	731
30	401	359	370	364	---	418	750	1310	4240	2650	997	745
31	361	---	368	365	---	413	---	1520	---	2630	938	---
TOTAL	19209	11180	11248	11123	8952	12975	17925	29957	116430	144230	46115	22069
MEAN	620	373	363	359	320	419	597	966	3881	4653	1488	736
MAX	712	413	373	370	357	575	750	1520	5350	7020	2640	806
MIN	361	311	302	348	296	300	412	531	1990	2630	938	699
AC-FT	38100	22180	22310	22060	17760	25740	35550	59420	230900	286100	91470	43770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1995, BY WATER YEAR (WY)

MEAN	744	644	570	550	541	630	989	1858	2026	1585	1067	850
MAX	1413	1029	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 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1962 - 1995
ANNUAL TOTAL	265131	451413	
ANNUAL MEAN	726	1237	1007
HIGHEST ANNUAL MEAN			2378
LOWEST ANNUAL MEAN			568
HIGHEST DAILY MEAN	1630	May 21	7020 Jul 14
LOWEST DAILY MEAN	302	Dec 9	296 Feb 13
ANNUAL SEVEN-DAY MINIMUM	354	Nov 23	301 Feb 11
INSTANTANEOUS PEAK FLOW			7080 Jul 14
INSTANTANEOUS PEAK STAGE			13.27 Jul 14
ANNUAL RUNOFF (AC-FT)	525900	895400	729300
10 PERCENT EXCEEDS	1040	3970	1810
50 PERCENT EXCEEDS	682	626	756
90 PERCENT EXCEEDS	370	344	422

a-Maximum daily discharge for period of record, 20000 ft³/s, Jun 7, 1912.

b-Minimum discharge observed for period of record, 166 ft³/s, Dec 19, 1907.

c-Maximum discharge observed for period of record, 21500 ft³/s, Jun 7, 1912, gage height, 21.8 ft, datum then in use, from rating curve extended above 14000 ft³/s.

09058000 COLORADO RIVER NEAR KREMMLING, CO--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
OCT 04...	1440	658	209	7.9	11.0	6.2	K2	K5	82	26	4.0
APR 13...	1700	637	235	8.4	8.5	9.5	--	--	97	30	5.4
MAY 16...	1115	963	220	8.1	9.5	7.4	68	31	93	28	5.5
JUN 21...	1300	4020	166	8.0	11.5	7.8	72	24	68	22	3.1
AUG 15...	1200	1530	203	8.2	11.0	7.5	--	--	82	26	4.1
SEP 20...	1455	708	213	8.1	12.5	7.9	K13	K17	84	26	4.5

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
OCT 04...	6.6	0.3	1.8	68	29	3.0	0.40	7.1	122	119
APR 13...	8.9	0.4	2.0	73	34	4.4	0.40	9.3	144	139
MAY 16...	8.1	0.4	1.7	80	28	2.3	0.20	10	138	133
JUN 21...	5.2	0.3	1.4	51	22	2.7	0.30	9.2	108	97
AUG 15...	6.7	0.3	1.6	58	32	2.2	0.30	9.3	126	118
SEP 20...	7.8	0.4	1.8	67	31	2.3	0.30	9.0	134	124

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT 04...	0.17	217	<0.01	0.06	<0.02	--	<0.20	<0.01	<0.01	<0.01
APR 13...	0.20	248	<0.01	0.08	<0.02	0.20	0.20	0.03	<0.01	<0.01
MAY 16...	0.19	359	<0.01	0.09	0.02	0.28	0.30	0.01	<0.01	0.01
JUN 21...	0.15	1170	0.02	0.06	0.03	0.27	0.30	0.06	0.04	0.01
AUG 15...	0.17	519	<0.01	0.06	0.11	0.19	0.30	0.02	<0.01	<0.01
SEP 20...	0.18	256	<0.01	0.06	<0.02	--	<0.20	0.0 0	<0.01	0.01

K-Based on non-ideal colony count.

09058000 COLORADO RIVER NEAR KREMMLING, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
OCT 04...	38	<0.5	<1	<5	<3	<10	19	<10
APR 13...	38	<0.5	<1	<5	<3	<10	79	20
MAY 16...	34	<0.5	<1	<5	<3	<10	84	<10
JUN 21...	34	<0.5	2	<5	<3	<10	140	10
AUG 15...	33	<0.5	<1	<5	<3	<10	48	<10
SEP 20...	33	<0.5	4	<5	<3	<10	72	20

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 04...	9	17	10	<10	<1	150	<6	<3
APR 13...	<4	26	20	<10	<1	170	<6	10
MAY 16...	5	28	<10	<10	<1	190	<6	<3
JUN 21...	<4	20	30	<10	<1	120	<6	<3
AUG 15...	11	24	10	<10	1.0	150	<6	4
SEP 20...	8	32	20	<10	<1	150	<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 mi².

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.--Estimated daily discharges: Oct. 13 to Apr. 11 and Apr. 17 to June 1. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	4.2	3.4	1.5	2.9	3.6	4.9	14	45	185	70	12
2	5.7	4.2	3.3	1.4	2.8	3.5	5.2	16	70	152	63	11
3	5.9	4.2	3.1	1.8	2.7	3.6	6.1	15	87	134	58	11
4	5.6	4.2	3.0	2.5	2.7	3.7	7.8	15	101	122	57	12
5	5.3	4.2	3.0	2.5	2.7	3.5	9.0	16	124	89	54	11
6	7.3	4.3	3.2	2.7	2.8	3.4	10	16	158	117	51	9.6
7	8.2	4.3	3.3	2.7	2.8	3.3	11	15	149	185	50	9.4
8	8.3	4.3	3.0	2.6	2.7	3.0	12	15	137	214	52	14
9	8.6	4.4	2.4	2.7	2.7	3.1	12	16	104	235	54	13
10	9.7	4.5	1.8	2.6	2.7	3.5	10	17	69	227	48	11
11	11	4.7	1.5	2.5	2.8	4.0	9.8	18	59	238	46	9.3
12	11	5.0	2.5	2.4	2.7	5.0	8.4	22	109	259	48	8.9
13	11	5.2	2.6	2.4	2.7	5.8	8.6	20	212	246	41	8.0
14	10	5.2	3.0	2.5	2.7	4.7	10	22	261	219	38	7.6
15	9.6	4.9	2.9	2.5	2.3	5.2	9.9	25	259	173	33	7.2
16	9.0	4.4	2.8	2.4	2.5	6.5	9.6	34	240	157	29	6.1
17	8.8	4.7	2.8	2.4	2.6	7.6	9.8	40	229	146	27	6.0
18	8.4	4.9	2.8	2.5	3.0	7.8	9.8	38	229	142	25	6.4
19	7.6	4.9	2.8	2.0	3.1	8.6	9.6	39	174	128	24	7.0
20	7.4	4.8	2.6	2.3	3.1	8.4	9.6	43	193	125	23	7.2
21	6.8	4.5	2.5	2.0	3.1	8.0	8.8	45	221	111	22	9.2
22	6.7	4.1	2.5	2.0	3.3	8.2	8.4	52	229	114	30	8.0
23	6.6	3.5	2.5	2.0	3.4	7.7	8.2	50	200	110	26	6.9
24	6.4	3.6	2.7	2.1	3.7	7.3	8.3	48	186	87	22	6.7
25	6.2	3.8	2.8	2.2	3.8	7.5	8.6	45	166	87	23	6.2
26	5.6	3.8	2.7	3.2	3.8	6.9	9.2	40	182	96	21	5.9
27	5.2	3.5	2.5	3.1	3.7	6.2	10	37	207	100	18	6.0
28	4.8	3.2	2.4	3.0	3.6	5.8	11	35	175	90	18	6.2
29	4.6	3.1	2.4	2.8	---	5.4	12	34	168	87	16	16
30	4.4	3.5	2.5	2.4	---	5.3	12	35	145	86	15	21
31	4.3	---	2.2	3.0	---	5.0	---	35	---	75	14	---
TOTAL	224.7	128.1	83.5	74.7	83.4	171.1	279.6	912	4888	4536	1116	279.8
MEAN	7.25	4.27	2.69	2.41	2.98	5.52	9.32	29.4	163	146	36.0	9.33
MAX	11	5.2	3.4	3.2	3.8	8.6	12	52	261	259	70	21
MIN	4.3	3.1	1.5	1.4	2.3	3.0	4.9	14	45	75	14	5.9
AC-FT	446	254	166	148	165	339	555	1810	9700	9000	2210	555

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1995, BY WATER YEAR (WY)

	MEAN	5.90	3.81	2.69	2.12	1.90	2.45	11.0	64.5	125	59.0	14.9	7.14
MAX	15.1	8.82	5.41	4.00	3.60	5.52	23.0	107	202	146	45.3	14.8	
(WY)	1985	1985	1986	1952	1952	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1948 - 1995

ANNUAL TOTAL	6554.6	12776.9	
ANNUAL MEAN	18.0	35.0	25.1
HIGHEST ANNUAL MEAN			41.2
LOWEST ANNUAL MEAN			12.9
HIGHEST DAILY MEAN	158	Jun 2	362
LOWEST DAILY MEAN	1.5	Dec 11	.40
ANNUAL SEVEN-DAY MINIMUM	1.9	Feb 20	.62
INSTANTANEOUS PEAK FLOW			560
INSTANTANEOUS PEAK STAGE			a5.12
ANNUAL RUNOFF (AC-FT)	13000	25340	18150
10 PERCENT EXCEEDS	74	130	86
50 PERCENT EXCEEDS	4.0	7.8	4.6
90 PERCENT EXCEEDS	2.3	2.6	1.5

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

09058610 DICKSON CREEK NEAR VAIL, CO

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

DRAINAGE AREA.--3.41 mi².

PERIOD OF RECORD.--October 1971 to current year. Prior to October 1972, published as "near Minturn."

GAGE.--Water-stage recorder. Elevation of gage is 9,245 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 13 to Apr. 11. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.1	1.1	.80	.88	.80	.72	1.2	11	20	5.1	2.9
2	1.6	1.2	1.1	.78	.90	.80	.74	1.3	14	19	4.9	2.9
3	1.4	1.3	1.1	.86	.84	.78	.76	1.4	17	21	4.8	2.9
4	1.3	1.3	1.1	.90	.80	.76	.78	1.3	19	21	4.7	2.9
5	1.4	1.2	1.1	.94	.82	.76	.80	1.4	22	19	4.6	3.0
6	1.7	1.2	1.0	.90	.84	.72	.88	1.5	24	18	4.4	2.9
7	1.5	1.3	.94	.96	.82	.72	.94	1.6	24	18	4.3	3.0
8	1.5	1.3	.88	1.0	.76	.76	1.0	1.7	24	18	4.2	3.6
9	1.8	1.3	.76	1.0	.78	.84	1.0	1.5	23	17	4.6	3.0
10	1.3	1.2	.72	1.0	.78	.88	1.0	1.6	18	17	3.1	2.9
11	1.3	1.2	.80	1.0	.78	.92	1.1	1.9	19	16	3.5	3.0
12	1.3	1.3	.88	1.0	.76	.84	1.1	2.1	22	14	4.2	2.8
13	1.3	1.3	.98	1.0	.80	.80	1.2	1.9	26	14	3.9	2.8
14	1.3	1.2	1.1	1.0	.78	.80	1.3	2.5	29	13	4.4	2.7
15	1.3	1.0	1.0	1.0	.70	.80	1.1	4.4	30	12	3.8	2.6
16	1.3	1.1	.98	1.0	.68	.84	1.1	5.3	30	10	3.9	2.6
17	1.3	1.2	.98	.84	.76	.88	1.2	5.1	32	9.5	3.8	2.6
18	1.3	1.2	.94	.80	.78	.88	1.2	4.6	33	9.3	3.8	2.6
19	1.3	1.2	.98	.86	.80	.84	1.1	5.3	31	8.5	3.8	2.7
20	1.2	1.1	.96	.82	.78	.82	1.1	6.3	30	8.1	3.7	2.8
21	1.2	1.1	.92	.74	.76	.88	1.1	7.9	30	7.9	3.3	3.1
22	1.2	1.0	.92	.68	.76	.86	1.0	11	29	8.0	2.4	2.7
23	1.2	1.0	.94	.66	.76	.84	1.0	12	26	7.2	3.4	2.6
24	1.1	1.0	.98	.88	.78	.84	1.0	10	24	6.9	4.0	2.6
25	1.1	1.1	1.0	.98	.80	.80	1.0	9.6	21	6.5	3.6	2.5
26	1.2	1.2	1.0	1.1	.78	.78	1.1	8.6	20	6.2	3.3	2.3
27	1.2	1.1	.98	1.0	.78	.74	1.0	7.9	20	5.9	3.3	2.2
28	1.2	1.0	1.0	.92	.80	.74	1.2	6.8	20	5.8	3.3	2.4
29	1.3	.96	1.0	.88	---	.72	1.3	7.2	20	5.5	2.9	3.6
30	1.2	1.0	.94	.86	---	.72	1.3	7.9	19	5.5	2.9	3.0
31	1.2	---	.86	.86	---	.72	---	9.1	---	5.3	2.9	---
TOTAL	41.0	34.66	29.94	28.02	22.06	24.88	31.12	151.9	707	373.1	118.8	84.2
MEAN	1.32	1.16	.97	.90	.79	.80	1.04	4.90	23.6	12.0	3.83	2.81
MAX	1.8	1.3	1.1	1.1	.90	.92	1.3	12	33	21	5.1	3.6
MIN	1.1	.96	.72	.66	.68	.72	.72	1.2	11	5.3	2.4	2.2
AC-FT	81	69	59	56	44	49	62	301	1400	740	236	167

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1995, BY WATER YEAR (WY)

	1985	1985	1985	1985	1985	1985	1979	1979	1995	1995	1995	1995
MEAN	1.09	.93	.76	.68	.65	.74	1.48	6.49	9.95	3.32	1.54	1.29
MAX	1.83	1.56	1.36	1.06	1.07	1.23	6.10	14.3	23.6	12.0	3.83	2.81
(WY)	1985	1985	1985	1985	1985	1985	1979	1979	1995	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 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1972 - 1995

ANNUAL TOTAL	677.02	1646.68	
ANNUAL MEAN	1.85	4.51	2.41
HIGHEST ANNUAL MEAN			4.51
LOWEST ANNUAL MEAN			.58
HIGHEST DAILY MEAN	a 8.9 May 20	33 Jun 18	42 May 6 1979
LOWEST DAILY MEAN	b .72 Jan 31	.66 Jan 23	c .00 Aug 12 1972
ANNUAL SEVEN-DAY MINIMUM	.75 Jan 29	.73 Mar 27	.00 Sep 12 1972
INSTANTANEOUS PEAK FLOW		40 Jun 17	d 48 May 6 1979
INSTANTANEOUS PEAK STAGE		3.27 Jun 17	d 2.75 May 6 1979
ANNUAL RUNOFF (AC-FT)	1340	3270	1750
10 PERCENT EXCEEDS	3.9	17	5.9
50 PERCENT EXCEEDS	1.2	1.2	1.1
90 PERCENT EXCEEDS	.88	.78	.45

a-Also occurred May 21 and 22.

b-Also occurred Feb 1-3, and Dec 10.

c-No flow at times some years.

d-Maximum gage height, 4.89 ft, May 9, 1984, backwater from ice.

09058700 FREEMAN CREEK NEAR MINTURN, CO

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

DRAINAGE AREA.--2.94 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 9,335 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 13 to May 18, and Aug. 27-29. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	.14	.14	.11	.10	.14	.13	.15	21	6.0	1.2	.18
2	.38	.14	.14	.10	.10	.12	.14	.16	25	5.3	1.1	.20
3	.28	.14	.13	.11	.10	.12	.14	.18	34	6.7	1.1	.18
4	.22	.15	.13	.10	.11	.12	.15	.19	33	7.7	1.1	.18
5	.25	.14	.14	.11	.11	.11	.14	.21	37	6.4	1.0	.27
6	.42	.14	.14	.10	.11	.12	.13	.20	36	5.4	.83	.25
7	.40	.14	.14	.10	.11	.13	.13	.21	34	5.0	.76	.33
8	.39	.14	.14	.10	.11	.13	.14	.23	30	4.7	.76	.48
9	.33	.15	.13	.11	.11	.13	.16	.24	23	4.4	.69	.47
10	.24	.14	.11	.11	.11	.12	.15	.24	16	4.1	.68	.45
11	.21	.14	.11	.10	.11	.12	.14	.23	18	3.8	.73	.49
12	.18	.15	.12	.10	.11	.12	.14	.24	23	3.5	.71	.48
13	.16	.16	.14	.10	.11	.13	.17	.26	27	3.4	.75	.33
14	.17	.15	.13	.10	.11	.13	.14	.31	31	3.6	.74	.29
15	.16	.13	.12	.10	.10	.13	.14	.32	34	3.3	.69	.24
16	.16	.14	.13	.10	.10	.14	.15	.32	31	3.0	.55	.20
17	.16	.15	.13	.10	.11	.15	.15	1.0	32	2.9	.51	.19
18	.16	.15	.13	.10	.11	.15	.15	1.8	27	2.9	.41	.33
19	.15	.14	.12	.10	.12	.16	.14	2.2	20	2.8	.39	.43
20	.15	.13	.11	.10	.12	.17	.14	5.4	16	2.6	.41	.85
21	.15	.12	.11	.11	.13	.17	.15	6.8	12	2.6	.43	1.6
22	.15	.11	.12	.11	.13	.17	.14	11	10	2.7	.44	1.0
23	.16	.09	.13	.11	.13	.18	.14	14	8.8	2.4	.47	.80
24	.16	.10	.13	.10	.13	.18	.15	15	7.7	2.3	1.4	.92
25	.15	.11	.12	.11	.14	.18	.12	12	6.7	1.9	.94	.87
26	.16	.11	.12	.12	.14	.17	.12	11	6.0	1.9	.56	.94
27	.15	.11	.11	.12	.14	.16	.13	9.6	5.4	1.8	.45	.97
28	.14	.11	.12	.11	.15	.14	.13	8.3	5.2	1.5	.36	1.5
29	.15	.12	.12	.11	---	.14	.14	8.8	5.5	1.3	.40	1.8
30	.14	.13	.13	.11	---	.13	.14	10	5.2	1.4	.30	.78
31	.14	---	.10	.11	---	.13	---	12	---	1.3	.21	---
TOTAL	6.58	3.97	3.89	3.27	3.26	4.39	4.23	132.59	620.5	108.6	21.07	18.00
MEAN	.21	.13	.13	.11	.12	.14	.14	4.28	20.7	3.50	.68	.60
MAX	.42	.16	.14	.12	.15	.18	.17	.15	37	7.7	1.4	1.8
MIN	.14	.09	.10	.10	.10	.11	.12	.15	5.2	1.3	.21	.18
AC-FT	13	7.9	7.7	6.5	6.5	8.7	8.4	263	1230	215	42	36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1995, BY WATER YEAR (WY)

	MEAN	.26	.17	.12	.093	.084	.12	.64	6.55	6.71	.99	.33	.26
MAX	.78	.45	.26	.24	.21	.29	1.73	18.0	23.2	3.50	1.25	.70	
(WY)	1985	1985	1983	1983	1983	1986	1971	1984	1983	1995	1983	1984	
MIN	.083	.030	.000	.000	.000	.000	.000	1.26	.30	.15	.065	.079	
(WY)	1993	1965	1965	1965	1965	1991	1991	1977	1977	1977	1981	1977	

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1965 - 1995

ANNUAL TOTAL	298.78	930.35	
ANNUAL MEAN	.82	2.55	1.36
HIGHEST ANNUAL MEAN			3.54
LOWEST ANNUAL MEAN			.31
HIGHEST DAILY MEAN	a13	May 12	63
LOWEST DAILY MEAN	.03	Mar 28	b.00
ANNUAL SEVEN-DAY MINIMUM	.04	Mar 26	.00
INSTANTANEOUS PEAK FLOW			58
INSTANTANEOUS PEAK STAGE			2.30
ANNUAL RUNOFF (AC-FT)	593	1850	987
10 PERCENT EXCEEDS	2.0	6.7	3.3
50 PERCENT EXCEEDS	.14	.16	.20
90 PERCENT EXCEEDS	.06	.11	.05

a-Also occurred May 14.

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 mi².

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.--Estimated daily discharges: Oct. 13 to May 9. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.84	.80	.84	.73	1.0	1.0	.78	1.3	8.0	45	7.1	1.4
2	.96	.83	.82	.69	1.0	1.0	.88	1.3	11	37	6.5	1.3
3	1.0	.85	.81	.76	1.0	1.0	1.0	1.4	14	36	6.1	1.4
4	.82	.86	.80	.84	.98	.97	1.1	1.5	16	35	5.9	1.4
5	.79	.85	.83	.87	1.0	.92	1.2	1.6	22	32	5.5	1.3
6	1.0	.85	.87	.87	.98	.87	1.2	1.5	26	32	5.2	1.2
7	.90	.86	.87	.87	.98	.85	1.1	1.5	27	35	4.8	1.3
8	.98	.89	.84	.88	.98	.92	1.0	1.5	27	37	4.6	2.4
9	1.1	.93	.79	.86	.96	.99	1.0	1.5	24	40	4.4	1.5
10	1.2	.97	.73	.85	.96	.96	.98	1.5	18	42	4.3	1.3
11	1.1	.93	.77	.85	.96	.90	1.0	1.7	21	41	4.2	1.5
12	.99	.88	.87	.86	.93	.92	1.1	1.4	29	40	4.0	1.3
13	.91	.90	.92	.85	.90	.96	1.2	1.3	39	38	3.8	1.1
14	.92	.95	.90	.84	.90	.98	1.3	1.4	56	36	3.8	1.1
15	.92	1.0	.90	.81	.95	1.1	1.3	3.2	61	31	3.4	.96
16	.91	.96	.90	.82	.94	1.1	1.2	5.2	58	28	3.2	.91
17	.90	.92	.90	.85	.94	1.0	1.2	3.9	69	26	3.0	.87
18	.89	.88	.87	.87	.96	1.1	1.1	3.2	75	25	2.9	.97
19	.87	.83	.82	.86	.99	1.1	1.1	4.0	61	23	2.9	1.1
20	.85	.83	.80	.85	1.0	1.1	1.0	4.7	59	22	2.7	1.4
21	.85	.80	.80	.83	1.1	1.1	1.0	4.8	48	21	2.7	1.7
22	.85	.76	.82	.80	1.1	1.0	1.0	7.4	46	20	2.4	1.2
23	.83	.74	.89	.81	1.1	1.0	.98	7.7	43	16	2.3	1.1
24	.82	.79	.85	.88	1.1	1.0	.97	6.7	39	15	2.7	1.0
25	.82	.83	.81	1.0	1.1	.98	.94	6.3	37	13	2.5	.99
26	.82	.84	.78	.98	1.1	.95	.92	5.7	38	12	2.2	.96
27	.82	.80	.77	.97	1.1	.90	.97	5.6	36	11	2.0	.92
28	.81	.82	.79	.93	1.0	.86	1.1	4.7	34	10	1.9	1.5
29	.80	.84	.84	.90	---	.82	1.2	4.9	35	9.4	1.7	4.5
30	.80	.86	.83	.87	---	.78	1.2	5.4	38	8.6	1.6	3.7
31	.78	---	.78	.84	---	.76	---	5.9	---	7.9	1.4	---
TOTAL	27.85	25.85	25.81	26.49	28.01	29.89	32.02	109.7	1115.0	824.9	111.7	43.28
MEAN	.90	.86	.83	.85	1.00	.96	1.07	3.54	37.2	26.6	3.60	1.44
MAX	1.2	1.0	.92	1.0	1.1	1.1	1.3	7.7	75	45	7.1	4.5
MIN	.78	.74	.73	.69	.90	.76	.78	1.3	8.0	7.9	1.4	.87
AC-FT	55	51	51	53	56	59	64	218	2210	1640	222	86

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1995, BY WATER YEAR (WY)

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	1.28	.97	.78	.67	.64	.72	1.64	10.7	22.7	8.59	2.24	1.40																			
MAX	2.78	2.00	1.50	1.11	1.04	1.16	3.75	26.3	45.7	28.8	5.85	3.09																			
(WY)	1966	1966	1966	1983	1983	1983	1987	1986	1983	1983	1965	1984																			
MIN	.73	.55	.44	.35	.40	.40	.66	2.97	7.55	1.28	.68	.75																			
(WY)	1978	1979	1979	1979	1965	1965	1975	1975	1977	1977	1977	1977																			

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1965 - 1995

ANNUAL TOTAL	981.01	2400.50	
ANNUAL MEAN	2.69	6.58	4.36
HIGHEST ANNUAL MEAN			8.05
LOWEST ANNUAL MEAN			1.83
HIGHEST DAILY MEAN	22	May 20	81
LOWEST DAILY MEAN	.55	Jan 30	.32
ANNUAL SEVEN-DAY MINIMUM	.62	Jan 28	.77
INSTANTANEOUS PEAK FLOW			107
INSTANTANEOUS PEAK STAGE			1.86
ANNUAL RUNOFF (AC-FT)	1950	4760	3160
10 PERCENT EXCEEDS	8.3	27	15
50 PERCENT EXCEEDS	.90	1.0	1.1
90 PERCENT EXCEEDS	.75	.82	.58

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 downstream side of private bridge 1.2 mi downstream from Rock Creek and 6.0 mi southeast of State Bridge.

DRAINAGE AREA.--86.2 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1944 to current year.

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. 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.--Estimated daily discharges: Nov. 6 to Mar. 9, Mar. 27, 31, and June 3 to Sept. 13. Records fair 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	15	13	9.0	11	13	18	44	296	450	160	27
2	16	14	13	8.2	11	12	18	48	382	390	150	27
3	16	14	13	9.6	11	11	18	55	410	350	140	30
4	15	13	13	11	10	11	19	50	450	320	130	27
5	14	12	14	10	11	12	23	58	480	300	120	25
6	18	12	11	11	11	13	27	68	520	350	110	28
7	19	12	10	12	11	12	33	74	470	400	100	33
8	19	12	8.4	12	11	12	40	74	420	460	110	28
9	19	13	7.4	12	10	14	43	69	390	450	100	26
10	20	13	8.6	12	10	17	36	71	350	430	88	26
11	20	13	9.6	12	10	17	33	86	330	430	92	24
12	21	13	11	11	10	19	28	109	480	450	78	23
13	22	13	12	11	9.8	17	31	107	760	480	66	23
14	20	12	11	11	11	18	35	112	880	430	58	22
15	21	11	11	11	11	19	31	170	760	420	56	21
16	21	11	11	11	10	22	29	218	700	370	45	20
17	18	13	11	10	9.8	25	31	220	680	350	43	19
18	17	14	10	9.0	11	25	31	200	620	330	43	20
19	17	14	11	10	11	26	30	213	560	310	44	22
20	17	14	11	11	12	24	28	240	620	290	45	22
21	17	14	10	9.0	12	24	27	242	760	270	48	27
22	16	12	11	8.0	12	25	25	305	700	290	56	24
23	16	11	11	7.6	12	23	25	329	500	240	53	22
24	15	11	12	8.4	12	22	24	293	450	220	47	21
25	14	12	12	9.4	13	19	24	280	420	230	45	20
26	14	13	12	11	13	22	24	252	480	240	45	20
27	15	13	12	11	12	22	26	239	440	230	40	20
28	15	11	12	10	12	21	30	211	420	220	37	22
29	14	10	11	10	---	19	38	206	400	210	35	45
30	14	11	11	10	---	18	44	223	410	200	31	51
31	13	---	11	10	---	18	---	250	---	180	29	---
TOTAL	525	376	345.0	318.2	310.6	572	869	5116	15538	10290	2244	765
MEAN	16.9	12.5	11.1	10.3	11.1	18.5	29.0	165	518	332	72.4	25.5
MAX	22	15	14	12	13	26	44	329	880	480	160	51
MIN	12	10	7.4	7.6	9.8	11	18	44	296	180	29	19
AC-FT	1040	746	684	631	616	1130	1720	10150	30820	20410	4450	1520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1995, BY WATER YEAR (WY)

	MEAN	19.2	17.3	14.9	13.4	12.9	15.1	52.5	255	344	112	31.6	17.5
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1944 - 1995

ANNUAL TOTAL	17512.3	37268.8	
ANNUAL MEAN	48.0	102	75.6
HIGHEST ANNUAL MEAN			127
LOWEST ANNUAL MEAN			27.2
HIGHEST DAILY MEAN	358	May 20	1300
LOWEST DAILY MEAN	7.4	Dec 9	1.9
ANNUAL SEVEN-DAY MINIMUM	9.4	Dec 6	2.3
INSTANTANEOUS PEAK FLOW		Not determined	c,d 1300
INSTANTANEOUS PEAK STAGE		Not determined	
ANNUAL RUNOFF (AC-FT)	34740	73920	54740
10 PERCENT EXCEEDS	164	390	256
50 PERCENT EXCEEDS	14	22	19
90 PERCENT EXCEEDS	11	11	10

a-Estimated during period of indefinite stage-discharge relationship, Jun 3 to Sep 11.

b-Also occurred Sep 18-19, 1954.

c-Maximum daily discharge for period of record.

d-Maximum discharge and stage, (recorded), 1220 ft³/s, Jun 27, 1983, gage height 5.82 ft, from peak stage indicator, but may have been higher May 25, 1984.

09059500 PINEY RIVER NEAR STATE BRIDGE, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML)	CADMIUM DIS- SOLVED (UG/L AS CD)
OCT 26...	1240	14	320	8.4	3.0	10.5	<1	<1	<1
MAR 07...	0920	5.6	359	8.3	0.0	11.6	K23	<1	<1
MAY 24...	0945	290	171	7.9	4.5	9.6	K5	K10	<1
AUG 23...	1145	53	217	7.8	15.0	7.6	K6	K8	<1

DATE	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 26...	<1	120	<1	10	<10	<0.1	<1	<0.2	<10
MAR 07...	<1	90	<1	<10	20	<0.1	<1	<0.2	<10
MAY 24...	<1	910	<1	40	20	<0.1	<1	<0.2	<10
AUG 23...	<1	100	<1	<10	20	<0.1	<1	<0.2	20

K-Based on non-ideal colony count

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 04...	0925	15	362	7.0	JUL 12...	1500	447	99	13.0
FEB 01...	1650	11	405	0.5	AUG 18...	1215	45	228	14.5
APR 14...	1125	36	289	3.0	SEP 13...	1515	24	318	14.0
JUN 14...	0950	827	116	5.0					
22...	1143	703	107	7.0					

09060550 ROCK CREEK AT CRATER, CO

LOCATION.--Lat 39°58'42", long 106°42'34", in NW1/4NE1/4 sec. 17, T.1 S., R.83 W., Routt County, Hydrologic Unit 14010001, on right bank 250 ft downstream from county bridge crossing, 2 miles downstream from Kayser Mutual Ditch diversion, and 0.8 miles northwest of Crater.

DRAINAGE AREA.--72.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,185 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 15 to Feb. 1 and June 14 to July 25. Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of approximately 1,025 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	7.3	6.8	5.8	5.8	8.4	10	25	213	88	3.9	1.7
2	2.0	7.4	6.8	5.0	5.5	8.4	9.9	30	235	64	3.8	1.7
3	1.9	7.9	6.7	5.6	5.6	8.4	10	32	250	54	3.7	1.7
4	1.8	7.0	6.6	5.8	5.8	8.3	12	33	277	39	3.5	1.6
5	1.9	6.9	6.6	5.6	5.8	8.7	15	41	277	28	3.5	1.6
6	1.9	8.0	6.8	5.8	6.0	8.1	21	45	272	29	3.2	1.6
7	1.9	8.5	6.8	6.0	6.0	8.1	26	41	282	30	3.1	1.8
8	1.8	8.6	6.3	6.0	6.0	9.0	30	35	235	32	3.0	10
9	1.8	8.4	6.1	6.0	6.1	9.0	25	37	206	33	2.9	8.7
10	1.8	7.4	6.6	6.0	6.3	9.1	20	43	196	34	2.9	6.8
11	1.8	8.0	6.6	6.0	6.4	10	19	53	190	35	2.7	7.8
12	1.7	8.3	6.6	6.0	6.4	11	18	63	184	35	2.6	7.6
13	1.7	7.3	6.6	5.8	6.6	11	27	59	203	35	2.5	6.2
14	1.7	5.1	6.6	5.8	6.2	11	29	77	200	35	2.4	5.6
15	1.7	4.0	6.2	5.8	5.8	12	24	129	200	34	2.3	3.5
16	1.7	6.1	6.0	5.8	6.3	13	24	134	190	32	2.1	1.6
17	1.7	7.0	6.2	5.8	6.6	14	26	161	230	29	1.8	1.6
18	1.7	7.4	6.0	5.4	6.9	15	23	134	220	26	1.8	1.8
19	1.7	7.7	6.0	5.6	7.3	15	22	151	190	23	1.7	2.2
20	1.7	7.7	6.0	5.8	7.5	14	20	164	190	17	1.8	2.0
21	1.7	7.5	6.0	5.4	7.8	14	18	174	180	14	1.9	1.8
22	1.7	7.1	6.0	5.0	7.9	13	17	194	180	12	1.8	1.9
23	4.9	6.7	6.2	4.8	8.2	13	16	205	180	10	1.7	1.8
24	8.1	6.5	6.4	5.2	8.2	13	16	202	150	8.8	2.0	1.7
25	7.7	6.4	6.4	5.8	8.3	11	16	207	110	8.6	2.3	1.7
26	7.5	6.6	6.4	5.8	8.6	11	16	168	90	9.3	2.1	1.7
27	7.8	6.6	6.2	6.0	8.5	11	18	166	90	7.6	2.1	1.7
28	7.7	6.6	6.2	5.6	8.4	11	22	141	94	7.2	2.2	1.7
29	7.7	6.8	6.2	5.6	---	10	23	169	96	5.8	2.1	7.8
30	7.5	6.8	6.2	5.6	---	9.5	26	207	98	4.6	1.9	9.7
31	6.8	---	6.0	5.6	---	9.6	---	199	---	4.4	1.7	---
TOTAL	104.9	213.6	197.1	175.8	190.8	337.6	598.9	3519	5708	824.3	77.0	108.6
MEAN	3.38	7.12	6.36	5.67	6.81	10.9	20.0	114	190	26.6	2.48	3.62
MAX	8.1	8.6	6.8	6.0	8.6	15	30	207	282	88	3.9	10
MIN	1.7	4.0	6.0	4.8	5.5	8.1	9.9	25	90	4.4	1.7	1.6
AC-FT	208	424	391	349	378	670	1190	6980	11320	1630	153	215

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1995, BY WATER YEAR (WY)

	MEAN	8.34	10.9	9.86	9.42	9.36	12.0	53.8	154	69.7	11.1	4.96	4.88
MAX	20.4	16.9	14.1	13.9	12.8	20.0	95.1	262	190	26.6	11.7	15.5	
(WY)	1987	1987	1985	1985	1985	1986	1986	1985	1995	1995	1986	1986	
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1985 - 1995

ANNUAL TOTAL	6349.9	12055.6	
ANNUAL MEAN	17.4	33.0	30.0
HIGHEST ANNUAL MEAN			50.2
LOWEST ANNUAL MEAN			17.8
HIGHEST DAILY MEAN	160	282	410
LOWEST DAILY MEAN	a 1.6	b 1.6	1.2
ANNUAL SEVEN-DAY MINIMUM	1.6	1.7	1.3
INSTANTANEOUS PEAK FLOW		345	534
INSTANTANEOUS PEAK STAGE		3.77	c 3.99
ANNUAL RUNOFF (AC-FT)	12600	23910	21700
10 PERCENT EXCEEDS	64	150	89
50 PERCENT EXCEEDS	7.4	7.4	9.7
90 PERCENT EXCEEDS	1.8	1.8	2.7

a-Also occurred Jul 3-5.

b-Also occurred Sep 5, 6, 16, and 17.

c-Maximum gage height, 4.03 ft, May 4, 1986.

09060550 ROCK CREEK AT CRATER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1984 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1986 to September 1987.

WATER TEMPERATURES: April 1986 to September 1987.

INSTRUMENTATION.--Water-quality monitor April 1986 to September 1987.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office. Water-quality monitor was not operated during winter.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 187 microsiemens Aug. 28, 1986; minimum, 46 microsiemens several days during May and June 1986.

WATER TEMPERATURE: Maximum, 18.9°C July 26, 1987; minimum, 0.0°C many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
OCT 26...	0920	6.8	132	8.3	1.0	11.1	60	18	3.7	3.6	0.2
MAR 07...	1615	9.1	133	8.3	0.5	12.1	61	18	3.9	3.4	0.2
MAY 24...	1345	171	62	7.7	7.5	8.8	27	7.9	1.7	2.2	0.2
AUG 23...	1505	1.7	182	8.1	16.5	8.4	80	24	4.8	4.8	0.2

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT 26...	0.8	62	8.6	0.6	<0.1	12	--	85	0.12	1.56
MAR 07...	0.9	58	9.0	0.6	<0.1	14	91	85	0.12	2.24
MAY 24...	0.6	27	3.0	0.3	<0.1	11	40	44	0.05	18.5
AUG 23...	1.1	82	9.4	0.8	0.2	9.7	111	104	0.15	0.51

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
OCT 26...	<0.01	0.07	<0.01	<0.2	0.01	<0.01	2.7	2.1
MAR 07...	<0.01	0.11	<0.01	<0.2	0.01	0.01	--	1.9
MAY 24...	<0.01	0.13	<0.01	<0.2	<0.01	0.01	8.1	6.8
AUG 23...	<0.01	0.10	<0.01	<0.2	<0.01	<0.01	2.6	1.8

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM, TOTAL RECOV-ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)
OCT 26...	--	--	--	--	<10	--	--	--	--	--
MAR 07...	--	--	--	--	--	--	--	--	--	--
MAY 24...	460	1	<100	<10	--	<1	<1	<1	1	670
AUG 23...	20	--	<100	<10	--	<1	<1	<1	<1	50

09060550 ROCK CREEK AT CRATER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
OCT 26...	200	--	--	--	--	--	--	--	--	--
MAR 07...	210	--	--	3	--	--	--	--	--	--
MAY 24...	170	<1	50	9	<0.10	1	1	<1	<1	<10
AUG 23...	6	<1	20	2	<0.10	1	<1	--	<1	<10

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 04...	1254	1.9	205	11.0	APR 26...	0924	15	120	1.0
FEB 01...	1323	5.8	133	1.0	JUN 14...	1421	211	50	11.5
MAR 16...	1010	12	129	1.0	JUL 12...	0934	35	82	12.0

09060770 ROCK CREEK AT McCOY, CO

LOCATION.--Lat 39°54'44", long 106°43'30", in SE¹/4NE¹/4 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 mi².

PERIOD OF RECORD.--October 1982 to September 1983 (measurements only), October 1983 to current year.

GAGE.--Water-stage recorder. 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.--Estimated daily discharges: Nov. 14 to Mar. 2, and June 27 to July 11. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	16	16	11	12	18	29	75	334	90	16	17
2	8.1	19	16	8.6	12	19	30	67	331	80	17	17
3	9.9	19	15	10	12	22	33	93	362	60	17	17
4	11	20	15	11	12	22	37	77	393	48	17	17
5	12	17	15	10	12	22	50	81	415	48	19	15
6	11	21	16	11	13	22	59	92	379	45	18	16
7	6.4	22	15	12	13	23	60	86	337	43	17	18
8	7.2	23	14	12	12	25	62	83	315	38	17	24
9	8.5	23	11	12	12	24	57	110	316	34	16	28
10	8.5	22	8.2	12	12	23	43	116	268	34	15	25
11	9.0	21	11	11	12	23	38	117	243	35	15	25
12	10	21	12	11	12	24	42	142	257	41	14	27
13	10	23	13	11	13	24	45	149	273	49	16	27
14	9.6	21	13	11	14	25	56	150	281	75	14	28
15	9.2	16	13	11	13	24	47	196	292	74	13	27
16	10	16	12	11	12	27	45	220	281	56	15	22
17	12	17	12	10	13	31	49	274	252	47	16	20
18	11	17	11	9.6	14	50	48	241	299	45	16	20
19	40	16	12	10	14	53	48	242	225	46	16	23
20	29	16	11	11	15	37	50	256	198	55	18	23
21	12	16	11	10	15	40	45	268	183	56	19	21
22	12	16	11	8.2	16	46	41	276	167	55	20	19
23	12	15	11	10	16	38	41	295	153	43	22	19
24	12	14	12	11	16	46	38	300	141	38	24	19
25	15	16	12	12	17	34	41	326	133	34	25	18
26	18	17	12	12	17	30	41	275	120	29	24	17
27	17	16	12	12	17	30	46	285	102	21	22	18
28	17	16	12	12	17	29	60	248	94	19	22	18
29	18	15	12	12	---	28	58	249	88	21	20	23
30	18	15	12	12	---	27	74	328	88	20	18	36
31	18	---	12	12	---	27	---	341	---	17	17	---
TOTAL	409.4	542.5	385.7	337.5	385.3	913	1413	6058	7320	1396	555	644
MEAN	13.2	18.1	12.4	10.9	13.8	29.5	47.1	195	244	45.0	17.9	21.5
MAX	40	23	16	12	17	53	74	341	415	90	25	36
MIN	6.4	14	8.2	8.2	12	18	29	67	88	17	13	15
AC-FT	812	1080	765	669	764	1810	2800	12020	14520	2770	1100	1280

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1995, BY WATER YEAR (WY)

	MEAN	25.1	27.7	22.6	20.9	22.4	32.8	125	287	105	26.7	19.2	19.3
MAX	50.0	46.0	38.8	31.1	35.8	68.5	272	618	299	72.1	59.0	48.2	
(WY)	1987	1987	1986	1986	1986	1986	1986	1984	1984	1984	1984	1984	
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1984 - 1995

ANNUAL TOTAL	10234.4	20359.4	
ANNUAL MEAN	28.0	55.8	63.0
HIGHEST ANNUAL MEAN			115
LOWEST ANNUAL MEAN			28.5
HIGHEST DAILY MEAN	199	415	1270
LOWEST DAILY MEAN	1.5	6.4	1.5
ANNUAL SEVEN-DAY MINIMUM	2.4	8.5	2.4
INSTANTANEOUS PEAK FLOW		457	1760
INSTANTANEOUS PEAK STAGE		3.33	a 4.74
ANNUAL RUNOFF (AC-FT)	20300	40380	45650
10 PERCENT EXCEEDS	94	197	152
50 PERCENT EXCEEDS	12	20	25
90 PERCENT EXCEEDS	4.8	11	11

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

09063200 WEARYMAN CREEK NEAR RED CLIFF, CO

LOCATION.--Lat 39°31'20", long 106°19'23", in SE¹/4SW¹/4 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 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 9,280 ft above sea level, from topographic map. Prior to Aug. 7, 1992, at site 0.25 mile upstream, at different datum.

REMARKS.--Estimated daily discharges: Oct. 20 to Apr. 12, June 18 to July 12, and July 21 to Aug. 31. Records fair except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	1.5	1.9	1.4	1.8	1.7	1.5	2.1	10	50	24	7.6
2	2.2	1.4	1.9	1.6	1.8	1.8	1.6	2.3	12	52	23	7.3
3	2.2	1.5	1.9	2.0	1.8	1.7	1.6	2.2	14	45	23	7.0
4	2.2	1.5	2.0	2.1	1.9	1.7	1.7	2.3	17	45	22	6.6
5	2.2	1.5	2.1	2.0	1.9	1.7	1.9	2.5	21	50	21	6.3
6	2.3	1.6	2.1	2.0	1.9	1.6	2.0	2.5	25	62	19	6.3
7	2.2	1.6	2.0	2.0	1.9	1.5	2.2	2.6	25	88	18	6.1
8	2.2	1.6	1.9	2.0	1.9	1.6	2.2	2.5	25	96	16	7.0
9	2.1	1.7	1.6	2.0	1.8	1.6	2.0	2.4	24	98	16	6.1
10	2.1	1.8	1.6	2.0	1.8	1.8	1.9	2.5	20	70	15	5.9
11	2.1	1.8	1.8	1.9	1.9	1.8	1.8	2.8	19	72	14	5.8
12	2.1	1.8	2.0	1.9	1.8	1.8	1.8	3.0	21	76	13	5.6
13	2.1	1.8	2.3	2.1	1.6	1.7	1.9	3.1	32	80	12	5.4
14	2.0	1.8	2.3	2.1	1.6	1.6	2.0	3.5	40	79	11	5.3
15	2.1	1.7	2.3	2.0	1.6	1.6	1.9	4.8	49	77	11	5.1
16	2.0	1.7	2.2	1.9	1.7	1.7	1.9	5.7	55	73	10	5.0
17	1.9	1.8	2.2	1.8	1.7	1.9	1.9	5.5	61	67	10	4.9
18	2.0	1.8	2.2	1.8	1.7	2.0	1.9	5.3	110	63	9.8	5.3
19	1.9	1.8	2.1	1.8	1.7	2.1	1.9	5.7	94	61	9.0	5.0
20	1.7	1.8	2.1	2.0	1.6	2.1	1.9	6.1	96	64	8.8	5.0
21	1.6	1.7	2.1	1.9	1.7	2.2	1.8	6.2	105	45	9.6	5.1
22	1.6	1.7	2.1	1.7	1.8	2.2	1.8	7.0	100	47	11	4.8
23	1.6	2.0	2.2	1.8	1.8	2.2	1.9	7.8	96	43	11	4.7
24	1.6	1.9	2.3	1.9	1.8	2.2	1.8	8.0	76	40	10	4.6
25	1.5	1.9	2.1	2.0	1.8	2.1	1.8	8.0	68	34	10	4.3
26	1.5	1.9	2.0	2.1	1.8	2.0	1.9	7.8	60	29	9.0	4.2
27	1.5	1.8	2.0	2.1	1.7	1.8	1.9	7.8	64	25	8.2	4.1
28	1.5	1.9	2.1	2.0	1.8	1.7	2.0	7.4	64	24	8.0	4.4
29	1.5	2.0	2.2	1.9	---	1.6	2.1	7.6	66	22	8.0	5.0
30	1.4	2.0	2.0	1.9	---	1.5	2.1	8.0	56	22	7.8	4.8
31	1.4	---	1.6	1.8	---	1.5	---	8.7	---	23	7.6	---
TOTAL	58.7	52.3	63.2	59.5	49.6	56.0	56.6	153.7	1525	1722	405.8	164.6
MEAN	1.89	1.74	2.04	1.92	1.77	1.81	1.89	4.96	50.8	55.5	13.1	5.49
MAX	2.4	2.0	2.3	2.1	1.9	2.2	2.2	8.7	110	98	24	7.6
MIN	1.4	1.4	1.6	1.4	1.6	1.5	1.5	2.1	10	22	7.6	4.1
AC-FT	116	104	125	118	98	111	112	305	3020	3420	805	326

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1995, BY WATER YEAR (WY)

	MEAN	2.75	1.94	1.58	1.33	1.23	1.32	2.11	12.0	45.2	21.8	6.98	3.88
MAX	5.02	2.86	2.48	1.95	1.80	2.28	4.66	34.4	90.2	55.5	17.4	9.57	
(WY)	1985	1985	1985	1985	1985	1985	1985	1984	1984	1995	1984	1984	
MIN	1.65	1.27	1.06	.87	.45	.80	1.13	4.96	16.7	5.13	2.71	2.16	
(WY)	1989	1970	1989	1992	1967	1965	1968	1995	1977	1977	1977	1977	

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1965 - 1995
ANNUAL TOTAL	2125.5	4367.0	
ANNUAL MEAN	5.82	12.0	8.51
HIGHEST ANNUAL MEAN			17.4
LOWEST ANNUAL MEAN			3.61
HIGHEST DAILY MEAN	45 Jun 6	a ₁₁₀ Jun 18	140 Jun 20 1983
LOWEST DAILY MEAN	1.1 Jan 31	b _{1.4} Oct 30	.30 Feb 21 1967
ANNUAL SEVEN-DAY MINIMUM	1.3 Jan 28	1.5 Oct 27	.40 Feb 8 1967
INSTANTANEOUS PEAK FLOW		Not determined	c ₁₅₅ Jun 20 1983
INSTANTANEOUS PEAK STAGE		Not determined	c _{3.61} Jun 20 1983
ANNUAL RUNOFF (AC-FT)	4220	8660	6170
10 PERCENT EXCEEDS	18	45	24
50 PERCENT EXCEEDS	2.1	2.1	2.4
90 PERCENT EXCEEDS	1.4	1.6	1.1

a-Estimated during period of indefinite stage-discharge relationship, Jun 18 to Jul 12.

b-Also occurred Oct 31, Nov 2, and Jan 1.

c-Site and datum then in use.

09063400 TURKEY CREEK NEAR RED CLIFF, CO

LOCATION.--Lat 39°31'22", long 106°20'08", in NW¹/4SW¹/4 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 mi².

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.--Estimated daily discharges: Oct. 20 to Apr.12. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	3.2	3.2	1.7	2.3	2.3	2.6	5.0	36	163	50	13
2	5.2	3.2	3.2	2.0	2.2	2.3	2.7	5.2	46	125	49	13
3	5.1	3.2	3.1	2.6	2.2	2.2	2.9	5.2	55	147	47	13
4	5.1	3.2	3.1	2.6	2.2	2.2	3.6	5.3	78	99	44	12
5	5.1	3.2	3.2	2.7	2.2	2.1	4.0	5.7	98	94	42	12
6	5.3	3.3	3.3	2.7	2.2	2.0	4.5	6.0	117	108	41	12
7	5.2	3.3	3.2	2.7	2.2	1.8	5.0	6.3	108	130	39	12
8	5.2	3.3	3.0	2.7	2.2	1.9	5.3	6.4	100	244	37	13
9	5.1	3.3	2.3	2.7	2.2	2.2	5.0	6.1	95	254	35	12
10	5.1	3.3	1.9	2.6	2.2	2.4	4.7	6.2	82	286	33	11
11	5.1	3.4	2.5	2.5	2.2	2.7	4.5	7.3	83	156	32	11
12	5.0	3.5	2.6	2.5	2.2	2.8	4.6	8.1	96	192	30	10
13	5.0	3.5	3.1	2.6	2.1	2.5	4.7	8.1	129	165	30	9.9
14	5.0	3.5	3.1	2.6	1.9	2.6	4.7	9.4	167	165	28	9.8
15	5.1	3.4	2.9	2.5	1.8	3.0	4.6	15	199	196	27	9.2
16	5.1	3.3	3.0	2.5	1.9	3.5	4.7	20	146	222	25	8.8
17	5.0	3.3	2.9	2.5	2.0	3.9	4.7	19	261	206	24	8.7
18	5.0	3.4	2.9	2.1	2.0	4.1	4.7	18	310	178	22	9.7
19	5.0	3.4	2.9	2.5	2.0	4.2	4.7	21	268	140	20	9.1
20	4.0	3.3	2.7	2.6	2.1	4.0	4.7	22	223	124	20	9.6
21	4.1	3.1	2.6	2.6	2.1	4.0	4.7	23	238	114	19	10
22	4.2	2.9	2.6	2.4	2.2	4.0	4.8	26	267	109	20	8.6
23	4.2	2.8	2.7	2.7	2.3	3.8	4.7	33	321	117	21	8.1
24	4.1	3.0	3.0	3.0	2.4	3.6	4.7	40	261	113	24	8.0
25	4.0	2.9	2.9	3.1	2.4	3.3	4.7	36	186	92	19	7.9
26	3.9	2.8	2.8	3.1	2.3	3.0	4.7	33	171	78	18	7.8
27	3.8	2.7	2.5	3.0	2.2	2.8	4.7	33	170	68	17	7.7
28	3.7	2.8	2.5	2.9	2.3	2.8	4.8	31	169	60	16	8.0
29	3.5	3.1	2.7	2.7	---	2.7	4.9	30	175	54	15	10
30	3.4	3.3	2.8	2.4	---	2.6	5.0	29	176	48	14	9.4
31	3.2	---	2.3	2.4	---	2.5	---	31	---	48	14	---
TOTAL	143.1	95.9	87.5	80.2	60.5	89.8	134.6	550.3	4831	4295	872	304.3
MEAN	4.62	3.20	2.82	2.59	2.16	2.90	4.49	17.8	161	139	28.1	10.1
MAX	5.3	3.5	3.3	3.1	2.4	4.2	5.3	40	321	286	50	13
MIN	3.2	2.7	1.9	1.7	1.8	1.8	2.6	5.0	36	48	14	7.7
AC-FT	284	190	174	159	120	178	267	1090	9580	8520	1730	604

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1995, BY WATER YEAR (WY)

	MEAN	6.15	4.59	3.63	3.13	2.91	3.44	7.50	46.4	119	49.0	14.2	8.03
MAX	12.2	9.19	5.76	4.96	4.39	6.36	23.1	103	274	139	39.1	19.8	
(WY)	1985	1985	1985	1985	1985	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1964 - 1995

ANNUAL TOTAL	4918.7	11544.2	
ANNUAL MEAN	13.5	31.6	22.3
HIGHEST ANNUAL MEAN			49.4
LOWEST ANNUAL MEAN			9.46
HIGHEST DAILY MEAN	96	May 31	321
LOWEST DAILY MEAN	1.9	Dec 10	1.7
ANNUAL SEVEN-DAY MINIMUM	2.6	Dec 9	2.0
INSTANTANEOUS PEAK FLOW			386
INSTANTANEOUS PEAK STAGE			2.92
ANNUAL RUNOFF (AC-FT)	9760	22900	16170
10 PERCENT EXCEEDS	46	117	71
50 PERCENT EXCEEDS	4.3	4.7	5.8
90 PERCENT EXCEEDS	3.0	2.3	2.8

a-Also occurred Jan 21 to Feb 29, 1964.

b-From rating curve extended above 325 ft³/s.

c-Maximum gage height for period of record, 3.22 ft, Jun 24, 1983, backwater from debris.

09063900 MISSOURI CREEK NEAR GOLD PARK, CO

LOCATION.--Lat 39°23'25", long 106°28'10", Eagle County, Hydrologic Unit 14010003, on left bank 50 ft downstream from road culvert, 0.6 mi upstream from Fancy Creek, 2.2 mi southwest of Gold Park, and 10 mi southwest of Red Cliff.

DRAINAGE AREA.--6.39 mi².

PERIOD OF RECORD.--August 1972 to current year.

REVISED RECORDS.--WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder, creast-stage gage and concrete control. Elevation of gage is 9,980 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 19 to May 8. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	2.2	1.5	.77	.87	1.1	1.0	1.6	13	47	13	4.1
2	2.6	2.2	1.4	.69	.86	1.0	1.1	1.7	16	34	11	4.0
3	2.3	2.1	1.3	.78	.86	1.0	1.2	1.6	19	38	10	4.0
4	2.3	2.1	1.3	.81	.87	1.0	1.3	1.8	20	26	11	3.9
5	2.4	2.0	1.3	.79	.88	1.0	1.4	1.7	24	22	10	3.3
6	3.7	2.0	1.4	.79	.90	.97	1.5	1.7	27	28	9.1	8.2
7	4.1	1.9	1.3	.79	.92	.96	1.6	1.6	24	39	8.7	7.9
8	3.5	1.9	1.2	.80	.92	1.0	1.5	1.5	22	57	8.9	11
9	3.6	2.0	1.0	.78	.92	1.1	1.5	1.5	19	75	8.0	9.1
10	3.6	1.9	.88	.78	.94	1.2	1.4	1.7	16	81	7.6	7.0
11	3.5	1.9	.99	.77	.92	1.2	1.2	2.3	19	79	8.8	6.6
12	3.5	2.0	.99	.77	.93	1.0	1.3	2.3	31	80	7.5	7.2
13	3.3	1.9	1.0	.78	.92	1.0	1.4	2.2	48	70	9.1	6.4
14	3.0	1.7	1.1	.76	.87	1.1	1.5	2.3	66	83	7.1	6.5
15	3.2	1.4	1.0	.76	.82	1.2	1.4	4.2	76	101	6.5	5.9
16	2.8	1.8	1.0	.76	.90	1.2	1.4	7.3	77	99	5.8	5.5
17	2.7	1.8	1.0	.72	.93	1.3	1.3	6.8	94	96	5.8	5.0
18	2.9	1.8	1.0	.72	.95	1.4	1.3	6.6	64	90	5.6	6.5
19	2.7	1.7	.98	.76	.94	1.5	1.3	6.7	42	92	5.3	6.2
20	2.6	1.7	.94	.76	.94	1.5	1.2	6.9	49	62	5.2	5.5
21	2.6	1.6	.90	.76	.95	1.5	1.2	8.2	54	23	6.0	6.1
22	2.5	1.5	.88	.73	.98	1.5	1.2	12	51	23	6.5	4.5
23	2.5	1.4	.96	.72	1.0	1.5	1.2	14	39	20	6.0	3.7
24	2.5	1.5	.98	.73	1.1	1.4	1.1	12	34	14	8.5	3.4
25	2.5	1.7	.93	.80	1.1	1.4	1.1	10	38	19	7.1	3.1
26	2.4	1.6	.90	.87	1.1	1.3	1.1	9.8	47	24	6.0	2.9
27	2.4	1.5	.85	.88	1.1	1.3	1.2	10	52	22	5.9	2.8
28	2.4	1.5	.82	.85	1.1	1.2	1.3	8.8	56	19	5.4	4.1
29	2.3	1.4	.83	.83	---	1.1	1.3	8.3	43	18	4.9	7.3
30	2.2	1.5	.88	.75	---	1.1	1.5	7.8	41	16	4.5	7.2
31	2.3	---	.86	.86	---	1.0	---	8.4	---	16	4.3	---
TOTAL	87.0	53.2	32.37	24.12	26.49	37.03	39.0	173.3	1221	1513	229.1	168.9
MEAN	2.81	1.77	1.04	.78	.95	1.19	1.30	5.59	40.7	48.8	7.39	5.63
MAX	4.1	2.2	1.5	.88	1.1	1.5	1.6	14	94	101	13	11
MIN	2.1	1.4	.82	.69	.82	.96	1.0	1.5	13	14	4.3	2.8
AC-FT	173	106	64	48	53	73	77	344	2420	3000	454	335

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1995, BY WATER YEAR (WY)

	MEAN	2.88	1.72	1.03	.71	.63	.75	2.66	14.7	32.5	22.9	9.59	4.57
MAX	7.29	3.58	1.73	1.30	1.30	1.45	7.02	41.7	79.0	78.6	29.1	9.46	
(WY)	1985	1986	1986	1991	1991	1991	1974	1984	1984	1984	1983	1984	
MIN	.84	.61	.35	.31	.28	.37	.71	4.00	12.7	9.32	3.55	1.65	
(WY)	1980	1977	1977	1976	1977	1979	1983	1983	1977	1988	1977	1974	

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1972 - 1995

	ANNUAL TOTAL	1872.77	3604.51	
ANNUAL MEAN	5.13		9.88	7.92
HIGHEST ANNUAL MEAN				20.6
LOWEST ANNUAL MEAN				4.35
HIGHEST DAILY MEAN	40	Jun 1	101	Jul 15
LOWEST DAILY MEAN	.60	Jan 31	.69	Jan 2
ANNUAL SEVEN-DAY MINIMUM	.69	Jan 25	.74	Jan 17
INSTANTANEOUS PEAK FLOW			150	Jun 17
INSTANTANEOUS PEAK STAGE			3.24	Jun 17
ANNUAL RUNOFF (AC-FT)	3710		7150	
10 PERCENT EXCEEDS	15		29	
50 PERCENT EXCEEDS	2.2		1.9	
90 PERCENT EXCEEDS	.70		.87	

a-Also occurred Feb 13, 1977.

b-From rating curve extended above 35 ft³/s.

c-Maximum gage height, 3.83 ft, Jul 30, 1983.

09064000 HOMESTAKE CREEK AT GOLD PARK, CO

LOCATION.--Lat 39°24'20", long 106°25'58", Eagle County, Hydrologic Unit 14010003, on left bank at Gold Park, 400 ft downstream from ford at Gold Park Campground, 0.5 mi downstream from French Creek, and 8 mi southwest of Red Cliff.

DRAINAGE AREA.--36.0 mi².

PERIOD OF RECORD.--October 1947 to September 1954, August 1972 to current year. Statistical summary computed for 1973 to current year.

REVISED RECORDS.--WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder. 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.--Estimated daily discharges: Oct. 19 to Apr. 13, June 17, and July 13-17. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	8.5	5.3	2.4	4.0	5.0	5.8	9.5	71	155	141	25
2	10	8.6	5.2	2.7	3.8	5.3	5.9	11	82	108	106	24
3	9.7	8.4	5.2	3.4	3.6	4.9	6.3	11	96	130	92	23
4	9.3	8.6	5.1	4.0	3.6	4.7	7.2	11	94	95	129	22
5	9.5	8.6	5.0	3.7	3.7	4.3	8.2	14	103	79	149	20
6	12	8.4	5.3	3.8	3.8	4.1	9.8	12	116	76	141	26
7	13	8.7	5.1	3.9	3.8	4.1	11.0	11	105	112	134	24
8	12	9.0	4.9	3.9	3.7	4.3	12.0	11	92	202	131	35
9	12	8.8	2.6	3.9	3.8	4.8	13.0	11	87	277	132	29
10	12	9.0	2.3	3.8	3.9	5.4	11.0	17	71	345	108	24
11	12	9.9	3.7	3.7	3.8	6.2	8.8	20	76	355	104	23
12	12	9.9	4.3	3.6	3.8	7.4	8.4	17	134	380	118	25
13	11	9.7	5.0	3.7	4.3	7.0	9.3	17	224	380	144	19
14	10	8.9	5.0	3.8	4.4	6.3	11	32	325	390	119	20
15	11	7.5	4.8	3.8	4.3	6.8	14	48	359	390	67	18
16	10	8.6	4.4	3.4	4.0	7.6	10	40	356	380	26	16
17	9.4	9.2	4.6	2.9	3.9	7.7	10	37	400	380	26	16
18	9.5	9.2	4.7	2.8	4.1	8.3	11	41	465	389	33	19
19	9.4	9.0	4.3	3.4	4.2	8.6	9.3	47	250	375	31	19
20	9.3	8.7	4.1	3.6	4.1	8.2	9.4	52	306	300	27	19
21	9.2	7.9	4.0	3.6	4.0	8.0	9.6	69	323	170	33	23
22	9.2	6.6	3.9	3.4	4.0	7.4	13	76	295	159	44	18
23	9.2	4.5	4.5	2.8	4.3	7.5	8.8	78	203	148	34	15
24	9.3	5.0	4.6	3.4	4.4	7.2	9.6	67	144	132	55	13
25	9.3	5.6	4.1	3.8	4.6	7.2	9.9	51	140	145	46	12
26	9.1	5.4	3.7	4.2	4.6	6.5	8.4	47	178	318	41	12
27	9.0	4.6	3.4	4.6	4.6	6.3	7.9	49	215	364	35	11
28	9.0	4.6	3.5	4.4	4.7	6.1	9.6	40	224	236	30	13
29	8.6	4.8	4.1	4.1	---	5.5	9.6	40	174	202	26	22
30	8.8	5.5	3.8	3.9	---	5.5	12	40	123	181	23	23
31	8.4	---	3.3	3.5	---	5.7	---	47	---	168	22	---
TOTAL	311.1	231.7	133.8	111.9	113.8	193.9	289.8	1073.5	5831	7521	2347	608
MEAN	10.0	7.72	4.32	3.61	4.06	6.25	9.66	34.6	194	243	75.7	20.3
MAX	13	9.9	5.3	4.6	4.7	8.6	14	78	465	390	149	35
MIN	8.4	4.5	2.3	2.4	3.6	4.1	5.8	9.5	71	76	22	11
AC-FT	617	460	265	222	226	385	575	2130	11570	14920	4660	1210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1995, BY WATER YEAR (WY)

	MEAN	13.6	9.91	7.36	5.90	5.60	6.57	14.8	64.3	97.8	65.5	33.2	16.8
MAX	31.4	15.2	13.8	10.9	10.3	12.4	33.8	211	310	243	121	34.8	
(WY)	1985	1991	1986	1986	1986	1989	1989	1984	1984	1995	1983	1984	
MIN	6.15	4.37	2.78	2.16	1.98	2.56	5.50	29.7	38.0	24.4	12.9	8.36	
(WY)	1990	1990	1976	1976	1976	1976	1983	1977	1992	1988	1977	1977	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1973 - 1995

ANNUAL TOTAL	7024.5	18766.5	
ANNUAL MEAN	19.2	51.4	a28.5
HIGHEST ANNUAL MEAN			79.2
LOWEST ANNUAL MEAN			15.3
HIGHEST DAILY MEAN	140	May 17	b465
LOWEST DAILY MEAN	2.3	Dec 10	2.3
ANNUAL SEVEN-DAY MINIMUM	3.7	Dec 25	3.2
INSTANTANEOUS PEAK FLOW			Not determined
INSTANTANEOUS PEAK STAGE			Not determined
INSTANTANEOUS LOW FLOW			
ANNUAL RUNOFF (AC-FT)	13930	37220	20680
10 PERCENT EXCEEDS	50	157	64
50 PERCENT EXCEEDS	9.4	9.6	12
90 PERCENT EXCEEDS	5.2	3.8	4.4

a-Average discharge for 7 years (water years 1948-54), 63.4 ft³/s, 45,930 acre-ft/yr, prior to diversion through Homestake Tunnel.

b-May have been higher during period of indefinite stage-discharge relationship, Jun 17, Jul 13-17.

c-Maximum daily discharge for period of record, 755 ft³/s, Jun 21, 1951.

d-Maximum discharge and stage for period of record, 1080 ft³/s, Jun 13, 1953, gage height, 6.84 ft, site and datum then in use, from rating curve extended above 700 ft³/s.

e-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 NE¹/₄NE¹/₄ 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 mi².

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.--Estimated daily discharges: Oct. 19 to Apr. 12. Records good except for estimated daily discharges, which are poor. Flow regulated by Homestake Lake (capacity, 44,360 acre-ft) since June 7, 1966. Transmountain diversions upstream from station through Homestake Tunnel (see elsewhere in this report) since June 6, 1967. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	10	7.2	5.0	6.8	7.4	12	35	138	274	130	36
2	21	10	7.8	5.0	6.8	7.4	12	45	164	250	112	34
3	20	10	7.2	5.8	6.4	7.4	13	53	190	261	132	31
4	17	9.8	7.4	6.6	6.4	7.6	15	51	183	209	149	29
5	17	9.6	7.8	6.2	6.8	7.6	16	61	196	176	144	25
6	24	10	7.6	6.8	7.2	6.8	19	68	233	185	136	30
7	27	10	7.0	7.0	7.0	6.6	29	62	219	223	135	33
8	23	10	5.8	7.0	6.6	7.0	25	56	186	265	137	52
9	22	9.8	5.0	7.0	6.6	7.6	24	51	175	321	121	46
10	20	9.8	4.6	7.4	7.0	8.0	23	58	138	340	114	33
11	20	11	5.2	7.0	6.6	9.0	23	87	139	330	124	31
12	19	11	6.0	6.8	7.0	10	28	102	199	237	142	29
13	18	10	6.8	6.8	7.6	9.0	35	89	303	315	129	26
14	16	9.0	7.6	6.8	8.0	9.0	33	86	419	400	96	30
15	17	8.0	6.8	6.8	7.6	10	29	136	497	392	47	28
16	14	9.0	6.8	6.0	6.8	11	28	166	523	405	40	24
17	12	10	7.4	5.4	6.8	12	26	150	596	364	47	21
18	12	9.8	6.8	5.4	7.0	13	24	128	513	344	45	27
19	12	9.6	7.0	6.0	7.2	12	24	132	357	324	42	33
20	12	9.8	7.0	5.4	7.0	12	22	144	373	208	41	30
21	11	9.6	6.6	5.0	7.2	13	20	142	391	189	74	44
22	11	9.0	6.4	4.5	7.2	12	20	168	362	182	54	30
23	10	8.0	6.6	4.2	7.2	12	17	169	292	165	75	24
24	9.8	6.6	6.8	4.6	7.4	12	16	153	257	162	74	17
25	9.8	7.4	7.4	5.4	7.6	12	15	128	251	247	61	14
26	10	8.6	7.0	6.6	7.8	11	16	111	274	314	53	13
27	10	8.2	7.0	6.8	7.8	11	18	114	286	231	46	12
28	10	7.0	7.0	6.4	7.6	11	28	95	304	200	40	15
29	10	6.4	7.4	6.4	---	11	36	98	239	186	36	37
30	10	6.8	6.8	6.2	---	12	35	100	260	176	34	46
31	9.8	---	5.6	6.2	---	12	---	110	---	159	31	---
TOTAL	473.4	273.8	209.4	188.5	199.0	309.4	681	3148	8657	8034	2641	880
MEAN	15.3	9.13	6.75	6.08	7.11	9.98	22.7	102	289	259	85.2	29.3
MAX	27	11	7.8	7.4	8.0	13	36	169	596	405	149	52
MIN	9.8	6.4	4.6	4.2	6.4	6.6	12	35	138	159	31	12
AC-FT	939	543	415	374	395	614	1350	6240	17170	15940	5240	1750

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1995, BY WATER YEAR (WY)

	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	18.9	13.3	10.2	8.28	8.15	10.5	35.3	122	147	76.5	36.8	22.4																	
MAX	45.1	31.0	19.7	15.9	14.0	22.5	73.1	358	439	313	136	42.3																	
(WY)	1985	1985	1985	1985	1984	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1967 - 1995

ANNUAL TOTAL	11083.0	25694.5	
ANNUAL MEAN	30.4	70.4	a42.6
HIGHEST ANNUAL MEAN			116
LOWEST ANNUAL MEAN			20.3
HIGHEST DAILY MEAN	200	May 17	831
LOWEST DAILY MEAN	4.6	Dec 10	b1.8
ANNUAL SEVEN-DAY MINIMUM	5.8	Dec 7	c2.1
INSTANTANEOUS PEAK FLOW			943
INSTANTANEOUS PEAK STAGE			3.82
ANNUAL RUNOFF (AC-FT)	21980	50970	30850
10 PERCENT EXCEEDS	73	232	114
50 PERCENT EXCEEDS	12	17	17
90 PERCENT EXCEEDS	7.5	6.6	6.2

a-Average discharge for 30 years (water years 1911-18, 1945-66), 86.6 ft³/s; 62,740 acre-ft/yr, prior to diversion through Homestake tunnel.

b-Minimum observed for period of record, 0.60 ft³/s, Jan 25, 1915 (discharge measurement).

c-Maximum discharge and stage for period of record, 1300 ft³/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 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 8,078.37 ft above sea level, from levels by private engineering firm.

REMARKS.--Estimated daily discharges: Nov. 15 to Mar. 6. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	31	27	17	22	24	33	77	401	882	305	95
2	35	33	26	18	22	23	28	94	505	840	264	92
3	35	31	26	19	21	23	30	104	577	904	236	90
4	33	30	26	19	21	22	34	101	666	822	249	86
5	33	26	27	18	22	23	42	120	726	722	265	83
6	40	30	25	19	22	23	50	138	851	681	254	83
7	42	31	20	20	22	23	61	135	875	713	239	84
8	40	32	15	20	21	23	74	129	837	770	236	91
9	38	31	11	21	21	25	76	116	823	832	236	102
10	37	29	13	21	20	25	65	125	675	877	215	89
11	37	30	16	21	19	24	56	167	639	890	206	82
12	36	34	20	20	18	24	53	199	779	892	219	77
13	35	32	24	20	20	23	62	187	992	834	246	73
14	34	28	27	21	21	23	69	192	1160	798	231	68
15	37	23	24	20	22	26	59	284	1340	836	195	65
16	38	24	23	19	20	32	58	358	1370	786	140	61
17	35	27	24	18	22	36	63	343	1490	774	126	58
18	35	28	23	18	22	39	57	311	1540	718	128	57
19	36	28	23	19	21	46	58	325	1260	677	123	65
20	33	29	23	18	21	43	56	356	1230	648	120	63
21	33	28	21	15	21	42	53	358	1260	502	117	73
22	33	25	21	13	21	47	50	416	1210	457	178	70
23	32	22	22	15	21	44	50	483	1120	431	147	62
24	31	25	24	18	22	46	48	457	1000	393	197	56
25	31	27	25	20	22	42	49	391	942	371	172	53
26	30	26	26	22	24	42	55	349	913	439	149	50
27	29	26	25	21	24	41	55	356	938	513	135	51
28	29	21	24	21	24	40	68	312	936	421	126	55
29	28	23	24	20	---	38	80	315	933	374	112	82
30	31	25	25	20	---	37	82	316	879	351	103	99
31	26	---	23	21	---	35	---	332	---	334	95	---
TOTAL	1056	835	703	592	599	1004	1674	7946	28867	20482	5764	2215
MEAN	34.1	27.8	22.7	19.1	21.4	32.4	55.8	256	962	661	186	73.8
MAX	42	34	27	22	24	47	82	483	1540	904	305	102
MIN	26	21	11	13	18	22	28	77	401	334	95	50
AC-FT	2090	1660	1390	1170	1190	1990	3320	15760	57260	40630	11430	4390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1995, BY WATER YEAR (WY)

	MEAN	38.4	36.0	27.6	24.8	23.6	28.3	74.5	348	519	231	85.7	54.3
MAX		50.5	45.1	32.9	29.1	29.9	32.8	108	582	962	661	186	73.8
(WY)		1991	1994	1992	1991	1993	1993	1992	1993	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 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1990 - 1995

ANNUAL TOTAL	33123	71737	
ANNUAL MEAN	90.7	197	125
HIGHEST ANNUAL MEAN			197
LOWEST ANNUAL MEAN			87.9
HIGHEST DAILY MEAN	543	Jun 1	1540
LOWEST DAILY MEAN	11	Dec 9	11
ANNUAL SEVEN-DAY MINIMUM	17	Dec 7	17
INSTANTANEOUS PEAK FLOW			1810
INSTANTANEOUS PEAK STAGE			6.75
ANNUAL RUNOFF (AC-FT)	65700	142300	90210
10 PERCENT EXCEEDS	293	772	358
50 PERCENT EXCEEDS	34	43	43
90 PERCENT EXCEEDS	24	21	23

09065100 CROSS CREEK NEAR MINTURN, CO

LOCATION.--Lat 39°34'05", long 106°24'43", in SW¹/4SW¹/4 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 mi².

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. 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.--Estimated daily discharges: Jan. 10-14, and Aug. 21 to Sept. 1. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	6.7	3.4	3.8	3.2	4.4	7.4	19	104	323	150	47
2	14	6.1	3.3	4.9	2.3	3.6	6.2	24	140	267	132	43
3	14	5.8	3.4	5.4	1.7	2.8	4.4	25	175	310	129	42
4	12	5.0	3.2	7.2	2.2	3.3	5.5	23	195	242	120	41
5	12	4.6	2.7	7.7	1.1	10	7.5	29	221	182	94	40
6	16	5.6	2.6	7.1	.91	4.1	12	33	274	210	82	38
7	16	5.7	3.2	6.6	.78	14	19	30	254	284	86	36
8	16	5.7	4.9	6.3	.82	13	23	26	243	332	81	49
9	15	5.0	16	5.3	.75	6.4	24	24	241	405	71	51
10	15	5.3	7.1	4.0	.75	5.5	20	24	154	438	71	40
11	15	5.6	8.9	3.5	3.1	3.9	19	32	147	455	135	35
12	15	6.0	12	3.4	14	4.2	12	41	245	467	103	30
13	15	5.6	10	3.2	8.9	4.1	14	37	360	436	129	26
14	14	3.8	8.1	2.8	5.1	4.5	19	38	453	473	131	24
15	14	15	6.7	2.6	9.1	4.9	16	59	548	388	92	22
16	14	5.3	6.2	2.5	5.0	6.1	15	73	550	255	86	20
17	12	6.8	5.9	3.1	6.1	7.6	16	78	564	221	74	19
18	11	10	5.4	3.1	7.0	9.5	14	66	535	207	66	21
19	11	5.8	4.8	2.8	8.4	9.8	14	66	404	207	58	27
20	9.8	5.0	5.2	2.7	7.9	17	13	75	408	204	52	24
21	9.5	4.4	5.6	4.1	6.8	8.8	12	85	451	199	49	29
22	9.1	7.3	6.7	6.0	6.7	10	11	107	455	187	56	23
23	8.4	22	7.1	7.6	6.9	20	11	121	428	159	70	19
24	7.7	16	5.9	8.3	7.1	7.9	10	106	381	148	71	17
25	7.2	7.0	4.8	7.5	6.8	16	9.9	96	351	154	66	15
26	7.0	4.6	4.2	7.3	5.4	10	11	87	360	158	58	14
27	6.6	4.8	4.0	6.1	5.2	14	11	80	419	146	56	14
28	6.4	4.3	4.9	5.1	5.2	11	15	67	404	131	53	13
29	5.9	4.3	5.3	4.5	---	7.8	18	68	398	150	51	27
30	6.5	3.8	4.0	4.4	---	6.1	20	73	361	127	48	33
31	6.0	---	3.3	3.8	---	10	---	81	---	132	47	---
TOTAL	353.1	202.9	178.8	152.7	139.21	260.3	409.9	1793	10223	7997	2567	879
MEAN	11.4	6.76	5.77	4.93	4.97	8.40	13.7	57.8	341	258	82.8	29.3
MAX	16	22	16	8.3	14	20	24	121	564	473	150	51
MIN	5.9	3.8	2.6	2.5	.75	2.8	4.4	19	104	127	47	13
AC-FT	700	402	355	303	276	516	813	3560	20280	15860	5090	1740

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1995, BY WATER YEAR (WY)

	MEAN	13.0	6.89	4.03	2.82	2.68	3.59	21.1	118	253	135	43.5	21.7
MAX	49.5	15.6	8.99	5.09	6.19	9.42	57.6	221	360	355	122	65.0	
(WY)	1962	1962	1985	1986	1982	1986	1962	1970	1980	1957	1983	1961	
MIN	3.39	1.99	.99	.17	4.48	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1957 - 1995

ANNUAL TOTAL	14979.6	25155.91	
ANNUAL MEAN	41.0	68.9	52.3
HIGHEST ANNUAL MEAN			83.2
LOWEST ANNUAL MEAN			25.4
HIGHEST DAILY MEAN	336	Jun 1	618
LOWEST DAILY MEAN	1.4	Feb 28	a .75
ANNUAL SEVEN-DAY MINIMUM	1.5	Mar 7	1.0
INSTANTANEOUS PEAK FLOW			723
INSTANTANEOUS PEAK STAGE			5.26
ANNUAL RUNOFF (AC-FT)	29710	49900	37880
10 PERCENT EXCEEDS	174	241	176
50 PERCENT EXCEEDS	11	14	10
90 PERCENT EXCEEDS	2.9	3.9	2.1

a-Also occurred Feb. 10.

b-Also occurred Dec 28-31, 1962, Jan 6-8, 11-15, 1963.

c-Maximum gage height, 6.14 ft, Aug 6, 1983.

09065500 GORE CREEK AT UPPER STATION, NEAR MINTURN, CO

LOCATION.--Lat 39°37'33", long 106°16'39", in NE¹/4NW¹/4 sec.18, T.5 S., R.79 W., Eagle County, Hydrologic Unit 14010003, on right bank 10 ft downstream from bridge pier on Interstate 70, 0.2 mi upstream from Black Gore Creek, 4.4 mi east of Vail, and 8.4 mi northeast of Minturn.

DRAINAGE AREA.--14.4 mi².

PERIOD OF RECORD.--October 1947 to September 1956, October 1963 to current year.

REVISED RECORDS.--WDR CO-89-2: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 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.

REMARKS.--Estimated daily discharges: Nov. 5, Nov. 7 to Apr. 4, Apr. 14-29, and May 9, 12-13. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	5.0	4.2	3.0	3.0	3.2	4.4	8.1	57	174	102	19
2	5.8	4.7	4.2	2.8	3.0	3.4	4.5	9.0	90	162	92	18
3	5.6	4.3	3.8	3.0	3.0	3.4	4.7	9.5	105	174	86	18
4	5.3	4.3	3.6	3.0	2.9	3.4	5.6	9.3	134	150	88	17
5	5.4	4.7	3.5	3.0	2.9	3.4	7.7	10	175	139	84	16
6	6.3	4.7	3.4	3.0	2.9	3.4	9.4	11	203	174	80	15
7	7.5	4.7	3.3	3.0	2.9	3.6	10	11	206	215	76	15
8	7.0	4.7	3.3	3.0	2.9	3.7	12	10	201	230	77	20
9	7.0	4.7	3.3	3.0	2.9	3.8	12	9.7	180	231	74	16
10	7.5	4.7	3.3	3.0	2.9	3.8	10	10	116	236	65	14
11	7.9	4.7	3.3	3.0	2.9	3.8	8.8	13	123	245	68	14
12	8.5	4.7	3.3	3.0	2.9	3.8	7.7	14	194	245	67	13
13	8.4	4.7	3.3	3.0	2.9	3.8	8.3	13	225	229	62	11
14	8.0	4.7	3.3	3.0	2.9	3.8	9.5	15	218	225	56	11
15	8.2	4.7	3.1	3.0	2.9	3.9	8.1	27	221	201	47	9.7
16	7.4	4.7	3.1	3.0	2.9	3.9	7.6	34	221	197	42	9.1
17	5.9	4.7	3.0	3.0	2.9	3.9	7.7	34	220	186	39	8.7
18	7.2	4.7	3.0	3.0	2.9	4.1	7.4	27	210	181	38	9.8
19	7.0	4.5	3.0	3.0	2.9	4.3	7.2	30	202	185	37	9.4
20	6.1	4.4	3.0	3.0	2.9	4.4	6.9	35	208	179	33	11
21	6.0	4.2	3.0	3.0	2.9	4.4	6.6	35	221	165	33	12
22	5.9	4.2	3.0	3.0	2.9	4.4	6.4	54	233	162	38	10
23	5.9	4.2	3.0	3.0	2.9	4.4	6.2	62	217	150	39	8.9
24	5.6	4.2	3.0	3.0	2.9	4.4	5.8	55	204	138	47	8.3
25	5.4	4.2	3.0	3.0	2.9	4.4	5.8	39	193	140	36	7.8
26	5.3	4.2	3.0	3.0	2.9	4.4	5.6	34	205	143	32	7.5
27	5.2	4.2	3.0	3.0	3.0	4.4	6.0	37	217	137	29	7.0
28	4.9	4.2	3.0	3.0	3.1	4.4	7.0	31	208	127	26	7.8
29	4.8	4.2	3.0	3.0	---	4.4	8.1	29	201	124	24	12
30	4.7	4.2	3.0	3.0	---	4.4	8.2	30	176	120	23	13
31	4.3	---	3.0	3.0	---	4.4	---	37	---	114	21	---
TOTAL	195.3	135.0	100.3	92.8	81.8	123.2	225.2	782.6	5584	5478	1661	369.0
MEAN	6.30	4.50	3.24	2.99	2.92	3.97	7.51	25.2	186	177	53.6	12.3
MAX	8.5	5.0	4.2	3.0	3.1	4.4	12	62	233	245	102	20
MIN	4.3	4.2	3.0	2.8	2.9	3.2	4.4	8.1	57	114	21	7.0
AC-FT	387	268	199	184	162	244	447	1550	11080	10870	3290	732

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1995, BY WATER YEAR (WY)

	MEAN	7.23	4.92	3.69	3.16	3.04	3.61	11.7	67.4	154	71.0	20.7	9.58
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1948 - 1995

ANNUAL TOTAL	8596.9	14828.2	
ANNUAL MEAN	23.6	40.6	30.0
HIGHEST ANNUAL MEAN			48.3
LOWEST ANNUAL MEAN			17.4
HIGHEST DAILY MEAN	180	Jun 1	a 245
LOWEST DAILY MEAN	2.3	Jan 2	2.8
ANNUAL SEVEN-DAY MINIMUM	2.5	Jan 1	2.9
INSTANTANEOUS PEAK FLOW			311
INSTANTANEOUS PEAK STAGE			3.51
ANNUAL RUNOFF (AC-FT)	17050	29410	21740
10 PERCENT EXCEEDS	103	177	100
50 PERCENT EXCEEDS	5.3	7.0	6.8
90 PERCENT EXCEEDS	2.7	3.0	2.5

a-Also occurred Jul 12.

b-From rating curve extended above 140 ft³/s.

c-Maximum gage height, 6.65 ft, Jun 18, 1951, datum then in use.

09066000 BLACK GORE CREEK NEAR MINTURN, CO

LOCATION.--Lat 39°35'47", long 106°15'52", T.5 S., R.79 W., Eagle County, Hydrologic Unit 14010003, on right bank 200 ft from U.S. Highway 6, 0.3 mi upstream from Timber Creek, 2.5 mi upstream from mouth, and 9 mi east of Minturn.

DRAINAGE AREA.--12.6 mi².

PERIOD OF RECORD.--October 1947 to September 1956, October 1963 to current year.

REVISED RECORDS.--WDR CO-89-2: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 9,150 ft above sea level, from topographic map. Prior to October 1963, at site 15 ft upstream, at present datum.

REMARKS.--Estimated daily discharges: Nov. 7 to Apr. 18. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	2.9	3.2	4.2	3.6	4.0	2.9	4.5	32	118	20	6.4
2	3.0	2.7	3.2	4.3	3.5	4.0	3.1	5.3	41	108	18	6.2
3	2.8	2.3	3.2	4.5	3.3	3.5	3.5	5.4	50	118	17	6.0
4	2.7	2.4	3.2	4.5	3.2	3.2	4.0	5.5	62	111	16	5.8
5	2.7	2.6	3.2	4.5	3.2	3.0	4.3	6.1	83	102	16	5.6
6	4.6	2.8	3.1	4.5	3.0	3.0	4.8	6.5	109	97	14	5.6
7	4.6	2.8	3.1	4.7	3.0	3.0	5.2	6.3	136	99	14	5.6
8	3.8	2.7	3.1	4.8	3.2	3.2	5.8	6.7	130	103	13	7.2
9	3.4	2.6	3.1	4.3	3.2	3.2	6.0	5.6	111	103	12	6.2
10	3.1	2.6	3.1	4.5	3.3	3.2	5.6	6.4	75	100	12	5.8
11	2.9	3.0	3.1	4.2	3.3	3.2	5.0	8.0	85	100	11	5.7
12	2.7	3.5	3.1	4.0	3.3	3.5	5.0	8.1	124	99	11	5.4
13	2.5	5.0	3.1	3.8	3.3	3.1	5.2	7.1	156	88	11	5.3
14	2.5	4.0	3.1	3.7	3.4	3.5	5.4	9.3	202	85	10	5.2
15	2.8	4.0	3.1	3.5	3.5	3.7	5.2	17	235	76	9.8	5.0
16	2.7	3.8	3.1	3.5	3.5	4.0	5.5	20	248	69	9.2	4.8
17	2.2	3.7	3.1	3.5	3.5	4.3	6.0	18	274	63	9.0	4.7
18	2.7	3.7	3.1	3.5	3.5	4.5	5.2	17	238	58	8.7	5.2
19	2.8	3.6	3.1	3.3	3.5	4.5	4.8	22	209	54	8.4	5.1
20	2.7	3.5	3.1	3.4	3.6	3.5	4.8	23	210	50	8.2	6.8
21	2.8	3.5	3.0	3.3	3.6	3.8	4.3	25	218	45	8.1	7.1
22	2.8	3.5	2.9	3.3	3.6	3.7	5.6	30	213	41	8.6	5.6
23	2.8	3.5	2.8	3.2	3.6	3.5	4.2	32	182	37	9.9	5.2
24	2.8	3.5	2.7	3.1	3.6	3.5	4.4	27	158	35	11	5.0
25	2.7	3.4	3.0	3.0	3.8	3.8	4.3	23	146	33	12	4.8
26	2.7	3.3	3.3	3.1	4.0	4.0	4.6	20	144	30	10	4.7
27	2.5	3.3	3.5	3.2	4.0	4.0	4.8	20	143	28	9.4	4.6
28	2.4	3.2	3.6	3.3	3.8	4.0	5.9	18	136	26	9.3	4.9
29	2.4	3.2	3.8	3.3	---	3.5	5.5	19	130	24	7.8	7.4
30	2.2	3.3	3.9	3.3	---	3.0	4.9	20	125	23	7.1	7.5
31	2.4	---	4.0	3.3	---	2.9	---	22	---	21	6.7	---
TOTAL	88.5	97.9	99.0	116.6	96.9	110.8	145.8	463.8	4405	2144	348.2	170.4
MEAN	2.85	3.26	3.19	3.76	3.46	3.57	4.86	15.0	147	69.2	11.2	5.68
MAX	4.6	5.0	4.0	4.8	4.0	4.5	6.0	32	274	118	20	7.5
MIN	2.2	2.3	2.7	3.0	3.0	2.9	2.9	4.5	32	21	6.7	4.6
AC-FT	176	194	196	231	192	220	289	920	8740	4250	691	338

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1995, BY WATER YEAR (WY)

	MEAN	3.87	3.41	2.81	2.43	2.35	2.88	7.53	54.8	90.5	22.6	7.32	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1948 - 1995

ANNUAL TOTAL	4171.5	8286.9	
ANNUAL MEAN	11.4	22.7	17.1
HIGHEST ANNUAL MEAN			30.3
LOWEST ANNUAL MEAN			8.16
HIGHEST DAILY MEAN	97	May 20	274
LOWEST DAILY MEAN	a 2.2	Oct 17	a 2.2
ANNUAL SEVEN-DAY MINIMUM	2.5	Oct 25	2.5
INSTANTANEOUS PEAK FLOW			370
INSTANTANEOUS PEAK STAGE			5.06
ANNUAL RUNOFF (AC-FT)	8270	16440	12370
10 PERCENT EXCEEDS	29	86	53
50 PERCENT EXCEEDS	3.8	4.5	3.8
90 PERCENT EXCEEDS	2.8	2.9	2.0

a-Also occurred Oct 30.

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 N¹/2 sec.12, T.5 S., R.80 W., Eagle County, Hydrologic Unit 14010003, on left bank 0.3 mi upstream from U.S. Highway 6, 0.4 mi upstream from mouth, 4.5 mi east of Vail, and 8.5 mi northeast of Minturn.

DRAINAGE AREA.--4.54 mi².

PERIOD OF RECORD.--October 1963 to current year.

REVISED RECORDS.--WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 8,625 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1-6, 10-21, Nov. 1 to Apr. 3, and Aug. 28. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	1.7	1.1	.83	.60	.70	1.1	2.0	15	54	26	5.7
2	2.0	1.7	1.0	.83	.60	.70	1.1	2.2	26	48	23	5.3
3	2.0	1.7	1.0	.83	.60	.68	1.1	2.4	32	48	21	5.4
4	2.0	1.7	1.0	.83	.60	.64	1.3	2.3	35	40	22	5.0
5	2.1	1.6	1.0	.83	.60	.62	1.8	2.7	45	39	21	4.8
6	2.1	1.6	1.0	.83	.61	.62	2.1	3.1	56	57	20	4.5
7	2.6	1.6	1.0	.83	.61	.62	2.7	3.3	56	72	19	4.1
8	2.6	1.6	1.0	.78	.61	.62	3.4	3.2	54	80	21	5.2
9	2.8	1.6	1.0	.72	.61	.62	3.7	2.9	43	79	19	3.8
10	3.0	1.6	1.0	.70	.61	.62	3.0	3.1	28	80	17	3.6
11	3.2	1.6	1.0	.70	.61	.64	2.8	3.6	35	82	20	3.5
12	3.5	1.6	.98	.70	.61	.66	2.4	3.9	60	84	17	3.0
13	3.7	1.6	.96	.66	.61	.68	2.0	3.8	83	72	16	2.9
14	3.6	1.5	.94	.63	.61	.72	2.3	4.6	87	67	13	2.7
15	3.6	1.5	.90	.63	.61	.72	2.1	8.4	78	60	12	2.7
16	3.4	1.4	.90	.63	.62	.72	2.0	13	70	56	11	2.5
17	3.3	1.3	.90	.63	.62	.74	2.0	12	72	52	11	2.5
18	3.1	1.3	.90	.63	.62	.76	2.0	9.1	69	47	11	2.7
19	3.0	1.3	.90	.60	.62	.78	1.9	9.2	66	48	11	2.5
20	2.9	1.3	.90	.60	.62	.80	1.9	11	71	44	9.8	2.8
21	2.8	1.3	.90	.60	.62	.82	1.9	11	76	40	12	2.4
22	2.6	1.3	.88	.60	.62	.86	1.8	18	80	41	11	2.3
23	2.7	1.3	.86	.60	.62	.92	1.7	22	73	37	10	2.1
24	2.5	1.3	.84	.60	.62	.94	1.5	19	62	33	10	1.9
25	2.6	1.3	.84	.60	.62	.96	1.5	14	61	34	9.2	1.8
26	2.5	1.2	.84	.58	.62	1.0	1.5	12	68	36	8.7	1.6
27	2.3	1.2	.84	.60	.64	1.1	1.6	12	69	35	8.3	1.6
28	2.2	1.1	.83	.60	.67	1.1	1.8	9.8	59	33	6.7	2.0
29	2.2	1.1	.83	.60	---	1.1	2.0	8.8	58	33	6.7	2.6
30	2.2	1.1	.83	.60	---	1.1	2.0	8.7	54	32	6.7	2.5
31	2.4	---	.83	.60	---	1.1	---	9.7	---	30	6.3	---
TOTAL	83.5	43.0	28.70	21.00	17.23	24.66	60.0	250.8	1741	1593	436.4	96.0
MEAN	2.69	1.43	.93	.68	.62	.80	2.00	8.09	58.0	51.4	14.1	3.20
MAX	3.7	1.7	1.1	.83	.67	1.1	3.7	22	87	84	26	5.7
MIN	2.0	1.1	.83	.58	.60	.62	1.1	2.0	15	30	6.3	1.6
AC-FT	166	85	57	42	34	49	119	497	3450	3160	866	190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1995, BY WATER YEAR (WY)

	MEAN	2.74	1.70	1.03	.84	.83	.97	3.94	23.8	49.5	23.2	7.52	3.62
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1964 - 1995

ANNUAL TOTAL	2755.30	4395.29											
ANNUAL MEAN	7.55	12.0								9.99			
HIGHEST ANNUAL MEAN										18.6		1984	
LOWEST ANNUAL MEAN										5.15		1966	
HIGHEST DAILY MEAN	62	Jun 1	87	Jun 14	170	Jun 26	1983						
LOWEST DAILY MEAN	.70	Jan 2	.58	Jan 26	a.10	Feb 8	1967						
ANNUAL SEVEN-DAY MINIMUM	.73	Mar 5	.60	Jan 20	b.20	Mar 4	1981						
INSTANTANEOUS PEAK FLOW			115	Jun 14	b338	Jun 8	1985						
INSTANTANEOUS PEAK STAGE			3.92	Jun 14	c4.10	Jun 8	1985						
INSTANTANEOUS LOW FLOW					.10	Feb 8	1967						
ANNUAL RUNOFF (AC-FT)	5470	8720	7240										
10 PERCENT EXCEEDS	28	48	33										
50 PERCENT EXCEEDS	2.1	2.1	2.3										
90 PERCENT EXCEEDS	.82	.62	.61										

a-Also occurred Jan 30, 1970.

b-From rating curve extended above 82 ft³/s.

c-Maximum gage height, 4.26 ft, Jun 8, 1985, backwater from debris.

09066150 PITKIN CREEK NEAR MINTURN, CO

LOCATION.--Lat 39°38'37", long 106°18'07", in SW¹/4SW¹/4 sec.1, T.5 S., R.80 W., Eagle County, Hydrologic Unit 14010003, on left bank, 1,000 ft upstream from U.S. Highway 6, 1,200 ft upstream from mouth, 4.0 mi east of Vail, and 8 mi northeast of Minturn.

DRAINAGE AREA.--5.32 mi².

PERIOD OF RECORD.--Annual maximum and occasional low-flow measurements water years 1965-66. October 1966 to current year.

REVISED RECORDS.--WRD Colo. 1971: 1967-70. WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 8,525 ft above sea level, from topographic map. Oct. 1, 1964, to Sept. 30, 1966, crest-stage gage at datum 0.98 ft lower, at site 300 ft downstream.

REMARKS.--Estimated daily discharges: Nov. 8 to Mar. 28, and July 12 to Aug. 16. Records good except for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	3.2	1.8	1.5	1.2	1.9	1.7	2.8	16	78	34	7.9
2	3.6	2.9	1.8	1.6	1.2	2.0	1.8	2.8	24	76	31	7.3
3	3.4	2.7	1.8	1.7	1.2	1.9	1.8	3.0	29	77	29	7.6
4	3.1	2.6	1.8	1.7	1.2	1.8	1.8	3.0	35	66	27	7.1
5	3.2	2.6	1.8	1.8	1.2	1.7	2.3	3.3	43	58	26	6.9
6	4.0	2.9	1.7	1.8	1.2	1.5	2.7	3.5	54	78	24	6.7
7	4.2	2.8	1.7	1.5	1.2	1.4	3.2	3.8	57	102	23	6.2
8	3.8	2.7	1.7	1.6	1.2	1.4	3.6	3.8	56	130	25	8.0
9	4.0	2.6	1.6	1.6	1.3	1.4	4.3	4.0	44	132	23	6.4
10	4.6	2.6	1.6	1.6	1.3	1.5	4.0	3.8	31	148	21	5.7
11	5.1	2.5	1.6	1.6	1.3	1.6	3.2	4.5	30	158	20	5.6
12	5.7	2.7	1.6	1.5	1.3	1.7	3.2	5.1	45	150	21	5.1
13	5.7	2.5	1.6	1.4	1.4	1.6	3.2	5.0	70	140	20	4.7
14	5.3	2.3	1.6	1.4	1.4	2.0	3.7	5.3	91	130	18	4.5
15	5.3	2.3	1.6	1.3	1.5	2.5	3.0	7.8	111	120	17	4.3
16	4.8	2.3	1.5	1.3	1.6	2.6	3.0	11	115	110	16	4.2
17	4.2	2.3	1.4	1.3	1.7	2.6	3.0	11	115	100	15	4.0
18	4.3	2.3	1.4	1.2	1.8	2.6	3.0	9.7	96	98	16	4.3
19	4.1	2.3	1.3	1.2	1.8	2.9	2.8	9.6	96	84	15	4.3
20	3.8	2.3	1.3	1.2	1.9	2.8	2.8	10	106	80	13	4.6
21	3.8	2.1	1.3	1.2	1.9	2.5	2.7	10	117	74	17	5.0
22	3.7	2.1	1.3	1.2	2.0	2.7	2.5	15	109	80	18	4.4
23	3.6	2.1	1.3	1.1	2.0	2.5	2.5	18	87	68	13	4.0
24	3.5	2.1	1.2	1.1	2.0	2.2	2.5	17	79	58	14	3.8
25	3.5	2.1	1.3	1.1	2.0	2.3	2.3	16	81	50	13	3.6
26	3.4	2.0	1.3	1.0	2.0	2.1	2.3	14	91	58	12	3.4
27	3.3	2.0	1.4	1.1	2.0	2.0	2.3	14	93	50	11	3.2
28	3.2	2.0	1.4	1.1	1.9	1.9	2.4	12	85	47	10	3.4
29	3.1	2.0	1.4	1.1	---	1.9	2.7	11	82	45	9.7	5.3
30	2.9	1.9	1.4	1.1	---	1.9	2.9	11	77	40	9.1	5.4
31	3.1	---	1.5	1.1	---	1.9	---	12	---	35	8.5	---
TOTAL	122.5	71.8	47.0	42.0	43.7	63.3	83.2	262.8	2165	2720	569.3	156.9
MEAN	3.95	2.39	1.52	1.35	1.56	2.04	2.77	8.48	72.2	87.7	18.4	5.23
MAX	5.7	3.2	1.8	1.8	2.0	2.9	4.3	18	117	158	34	8.0
MIN	2.9	1.9	1.2	1.0	1.2	1.4	1.7	2.8	16	35	8.5	3.2
AC-FT	243	142	93	83	87	126	165	521	4290	5400	1130	311

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1995, BY WATER YEAR (WY)

	MEAN	3.95	2.49	1.76	1.42	1.34	1.44	4.00	23.7	53.7	31.1	9.86	5.11
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1967 - 1995

ANNUAL TOTAL	3009.3	6347.5	
ANNUAL MEAN	8.24	17.4	11.7
HIGHEST ANNUAL MEAN			22.7
LOWEST ANNUAL MEAN			6.77
HIGHEST DAILY MEAN	56	158	186
LOWEST DAILY MEAN	1.1	1.0	.24
ANNUAL SEVEN-DAY MINIMUM	1.3	1.1	.26
INSTANTANEOUS PEAK FLOW		Not determined	265
INSTANTANEOUS PEAK STAGE		a 3.75	b 2.85
ANNUAL RUNOFF (AC-FT)	5970	12590	8460
10 PERCENT EXCEEDS	30	75	38
50 PERCENT EXCEEDS	3.2	3.2	3.2
90 PERCENT EXCEEDS	1.4	1.3	1.1

a-Backwater from debris.

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 NE¹/4SE¹/4 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 mi².

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.--Estimated daily discharges: Nov. 8 to Mar. 28, June 14-15, 17-19, 20-22, and July 8 to Aug. 29. Records fair except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.9	1.0	.86	.86	.98	1.5	3.6	18	65	22	3.8
2	1.7	1.8	1.0	.86	.86	.98	1.6	3.8	28	59	20	3.4
3	1.7	1.7	1.0	.86	.86	.98	1.7	4.0	32	60	19	3.7
4	1.6	1.6	1.0	.86	.86	.98	2.6	4.0	38	51	18	3.2
5	1.6	1.7	1.0	.86	.86	.98	2.5	4.3	45	49	17	3.0
6	2.3	1.7	1.0	.86	.86	.98	3.1	4.6	55	62	16	3.0
7	2.8	1.7	1.0	.86	.86	.98	3.9	4.8	59	79	15	2.8
8	2.7	1.6	1.0	.86	.86	.98	4.6	4.6	57	90	15	5.1
9	3.0	1.6	1.0	.86	.86	.98	4.9	4.5	45	96	14	3.2
10	3.6	1.6	1.0	.86	.86	.98	4.2	4.9	34	98	14	2.9
11	3.9	1.6	1.0	.86	.86	1.1	3.9	5.8	37	100	13	2.9
12	4.1	1.5	1.0	.86	.86	1.2	3.5	6.0	60	94	12	2.6
13	4.0	1.5	1.0	.86	.86	1.4	3.7	5.8	103	86	12	2.3
14	3.7	1.4	1.0	.86	.86	1.5	4.3	6.4	105	74	11	2.1
15	3.6	1.4	1.0	.86	.86	1.6	3.8	10	110	70	10	2.0
16	3.2	1.4	.96	.86	.88	2.0	3.8	15	111	62	9.2	1.9
17	2.7	1.4	.94	.86	.88	2.3	3.8	13	117	56	8.4	1.7
18	2.9	1.4	.90	.86	.88	2.3	3.7	11	105	52	8.0	1.9
19	2.8	1.4	.90	.86	.88	2.2	3.6	10	88	48	7.6	1.9
20	2.5	1.3	.86	.86	.88	2.1	3.5	11	92	46	7.6	2.3
21	2.6	1.3	.86	.86	.89	2.0	3.3	11	96	43	7.6	3.0
22	2.4	1.3	.86	.86	.90	1.9	3.3	17	86	41	8.4	2.5
23	2.4	1.3	.86	.86	.98	1.9	3.2	22	67	38	7.4	2.2
24	2.3	1.3	.86	.86	.98	1.8	3.0	19	68	35	8.4	2.0
25	2.3	1.2	.86	.86	.98	1.7	3.0	17	76	33	7.2	1.9
26	2.3	1.1	.86	.80	.98	1.6	2.9	17	70	32	6.8	1.8
27	2.2	1.1	.86	.86	.98	1.6	2.9	17	66	30	6.2	1.7
28	2.2	1.1	.86	.86	.98	1.6	3.3	14	65	28	5.8	2.5
29	2.1	1.0	.86	.86	---	1.5	3.4	13	66	26	5.2	5.1
30	2.1	1.0	.86	.86	---	1.4	3.7	13	58	24	4.6	5.4
31	2.1	---	.86	.86	---	1.5	---	14	---	23	4.3	---
TOTAL	80.9	42.9	29.02	26.60	24.97	46.00	100.2	311.1	2057	1750	340.7	83.8
MEAN	2.61	1.43	.94	.86	.89	1.48	3.34	10.0	68.6	56.5	11.0	2.79
MAX	4.1	1.9	1.0	.86	.98	2.3	4.9	22	117	100	22	5.4
MIN	1.5	1.0	.86	.80	.86	.98	1.5	3.6	18	23	4.3	1.7
AC-FT	160	85	58	53	50	91	199	617	4080	3470	676	166

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1995, BY WATER YEAR (WY)

	MEAN	2.76	2.02	1.26	1.00	.96	1.33	5.51	30.5	64.5	25.9	5.90	3.02
MAX	8.30	7.17	3.54	2.48	2.97	5.72	14.2	57.8	123	70.4	14.4	7.29	
(WY)	1985	1985	1985	1985	1985	1986	1986	1974	1982	1983	1984	1984	
MIN	.88	.66	.67	.37	.39	.41	1.39	10.0	23.5	3.65	1.45	.97	
(WY)	1975	1965	1975	1977	1981	1981	1973	1995	1966	1994	1994	1974	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1965 - 1995

ANNUAL TOTAL	2827.07	4893.19	
ANNUAL MEAN	7.75	13.4	12.1
HIGHEST ANNUAL MEAN			19.0
LOWEST ANNUAL MEAN			6.66
HIGHEST DAILY MEAN	76 Jun 1	117 Jun 17	218 Jun 15 1978
LOWEST DAILY MEAN	a .86 Jan 2	.80 Jan 26	b .20 Feb 8 1967
ANNUAL SEVEN-DAY MINIMUM	.86 Dec 20	.85 Jan 20	.33 Feb 7 1967
INSTANTANEOUS PEAK FLOW		Not determined	355 Jun 15 1978
INSTANTANEOUS PEAK STAGE		Not determined	c 4.07 Jun 15 1978
ANNUAL RUNOFF (AC-FT)	5610	9710	8740
10 PERCENT EXCEEDS	31	55	40
50 PERCENT EXCEEDS	1.6	2.4	2.3
90 PERCENT EXCEEDS	1.0	.86	.72

a-Also occurred Dec 20-31.

b-Also occurred Jan 29, 1970, 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 mi².

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.--Estimated daily discharges: Nov. 8 to Mar. 27, and Sept. 8-27. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.83	.62	.30	.27	.27	.30	.27	.78	6.8	50	15	1.8
2	.85	.47	.30	.27	.27	.30	.26	.91	8.3	47	14	1.7
3	.83	.50	.30	.27	.27	.28	.21	.93	10	48	13	1.8
4	.58	.35	.30	.27	.27	.28	.34	.88	13	44	12	1.6
5	.53	.49	.30	.27	.27	.28	.59	1.0	15	43	11	1.5
6	.98	.57	.30	.27	.27	.28	.79	1.1	20	44	10	1.5
7	.89	.52	.30	.27	.27	.28	.98	1.2	24	49	9.3	1.4
8	.83	.47	.30	.27	.27	.28	1.2	1.3	24	57	8.8	1.8
9	.83	.44	.30	.27	.27	.28	1.2	1.2	21	55	8.3	1.6
10	.99	.43	.30	.27	.27	.28	1.0	1.3	17	61	7.9	1.5
11	.94	.42	.30	.27	.27	.29	.91	1.6	18	65	7.6	1.4
12	.92	.41	.30	.27	.27	.31	.81	1.7	25	62	7.2	1.4
13	.84	.41	.30	.27	.27	.33	.86	1.7	37	63	6.8	1.3
14	.79	.40	.30	.27	.27	.36	.91	1.7	52	57	6.3	1.3
15	.86	.40	.30	.27	.27	.39	.81	2.6	56	45	5.8	1.3
16	.73	.40	.29	.27	.27	.42	.75	3.8	53	40	5.3	1.2
17	.66	.40	.29	.27	.27	.46	.75	3.9	58	39	5.2	1.2
18	.76	.40	.28	.27	.27	.49	.67	3.6	58	37	4.7	1.3
19	.73	.40	.28	.27	.27	.50	.57	3.6	57	35	4.2	1.4
20	.67	.39	.27	.27	.27	.50	.61	4.3	56	32	4.2	1.6
21	.67	.38	.27	.27	.28	.49	.60	4.6	62	29	4.6	1.9
22	.67	.37	.27	.27	.29	.48	.56	5.8	57	29	5.3	1.7
23	.66	.36	.27	.27	.30	.47	.54	7.0	51	28	4.1	1.6
24	.62	.35	.27	.27	.30	.46	.52	7.0	48	25	4.4	1.5
25	.63	.34	.27	.27	.30	.45	.53	6.6	48	24	4.2	1.4
26	.62	.34	.27	.27	.30	.44	.54	6.4	48	23	3.8	1.4
27	.59	.33	.27	.27	.30	.44	.53	6.4	48	21	3.0	1.4
28	.54	.32	.27	.27	.30	.43	.74	5.7	47	20	2.5	1.8
29	.53	.31	.27	.27	---	.38	.80	5.5	47	19	2.1	2.9
30	.59	.30	.27	.27	---	.34	.90	5.6	46	18	2.3	2.5
31	.49	---	.27	.27	---	.30	---	6.0	---	16	2.1	---
TOTAL	22.65	12.29	8.88	8.37	7.77	11.57	20.75	105.70	1131.1	1225	205.0	47.7
MEAN	.73	.41	.29	.27	.28	.37	.69	3.41	37.7	39.5	6.61	1.59
MAX	.99	.62	.30	.27	.30	.50	1.2	7.0	62	65	15	2.9
MIN	.49	.30	.27	.27	.27	.28	.21	.78	6.8	16	2.1	1.2
AC-FT	45	24	18	17	15	23	41	210	2240	2430	407	95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1995, BY WATER YEAR (WY)

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	1.19	.81	.49	.39	.37	.40	1.30	11.6	34.5	13.8	3.34	1.73																			
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 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1965 - 1995

ANNUAL TOTAL	1256.36	2806.78	
ANNUAL MEAN	3.44	7.69	
HIGHEST ANNUAL MEAN			5.83
LOWEST ANNUAL MEAN			11.3
HIGHEST DAILY MEAN	36 Jun 2	65 Jul 11	2.52 1984
LOWEST DAILY MEAN	a .27 Dec 20	.21 Apr 3	b .00 Nov 10 1964
ANNUAL SEVEN-DAY MINIMUM	.27 Dec 20	.27 Dec 20	.00 Nov 10 1964
INSTANTANEOUS PEAK FLOW		82 Jul 11	116 Jun 20 1974
INSTANTANEOUS PEAK STAGE		2.74 Jul 11	c,d 2.65 Jun 20 1974
ANNUAL RUNOFF (AC-FT)	2490	5570	4220
10 PERCENT EXCEEDS	13	36	20
50 PERCENT EXCEEDS	.60	.73	.90
90 PERCENT EXCEEDS	.31	.27	.20

a-Also occurred Dec. 21-31.

b-No flow at times most years.

c-Maximum gage height, 3.28 ft, Jun 25, 1983, backwater from debris.

d-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 mi².

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.--Estimated daily discharges: Nov. 15, 16, 18, 23-25, Nov. 27 to Dec. 3, Dec. 9-13, 15, 16, 18, 20-23, 27, 28, Jan. 1-4, 17-19, 21-25, 30, 31, Feb. 4, 11-13, 15-21, 23-25, and Mar. 7-9. Records fair except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	18	10	7.2	6.9	13	14	34	196	786	243	52
2	20	16	9.9	7.4	7.0	12	15	40	268	710	221	50
3	20	16	9.8	7.4	6.6	10	19	41	325	786	205	49
4	18	15	9.8	7.6	6.5	10	25	39	402	680	204	47
5	19	13	10	7.7	6.5	9.5	30	43	523	611	189	45
6	27	16	10	7.8	6.6	9.5	33	46	647	699	178	43
7	27	16	9.9	6.7	6.7	9.7	37	46	717	873	171	41
8	25	15	9.6	6.8	6.6	9.9	42	47	697	992	171	52
9	25	15	9.6	7.3	7.2	10	45	45	613	1010	166	44
10	27	14	9.6	7.3	6.9	10	36	46	437	1050	148	40
11	28	15	9.5	6.9	7.0	12	31	55	433	1110	151	40
12	30	17	9.4	6.7	7.2	13	29	60	671	1160	147	37
13	29	15	9.3	6.5	7.4	12	30	56	975	1010	137	34
14	28	13	9.2	6.6	7.5	12	34	59	1180	953	123	32
15	29	13	9.0	6.3	7.6	16	29	92	1290	802	108	30
16	27	13	8.4	6.3	8.0	21	29	124	1300	712	100	29
17	24	13	7.8	6.3	8.2	24	30	121	1340	664	92	28
18	25	13	7.7	6.3	8.6	24	29	104	1220	601	90	29
19	25	13	7.6	6.3	9.2	25	28	111	1080	581	87	29
20	22	12	7.6	6.3	9.8	21	28	128	1170	552	81	31
21	21	12	7.6	6.3	11	22	26	132	1230	489	82	38
22	20	12	7.4	6.3	11	22	24	174	1210	479	93	30
23	20	12	7.0	6.0	12	19	25	205	1050	428	84	27
24	20	12	6.8	6.0	12	20	24	194	920	377	100	26
25	19	11	7.1	5.9	12	17	24	168	869	365	85	24
26	19	11	7.0	5.9	13	18	26	154	933	367	77	23
27	18	11	7.0	6.0	12	18	26	158	937	353	71	23
28	17	10	7.0	5.9	12	16	30	139	904	324	68	26
29	17	10	7.1	6.2	---	15	35	136	873	313	63	47
30	18	10	7.3	6.2	---	14	38	142	785	289	59	46
31	13	---	7.2	6.6	---	14	---	157	---	272	55	---
TOTAL	697	402	262.2	205.0	243.0	478.6	871	3096	25195	20398	3849	1092
MEAN	22.5	13.4	8.46	6.61	8.68	15.4	29.0	99.9	840	658	124	36.4
MAX	30	18	10	7.8	13	25	45	205	1340	1160	243	52
MIN	13	10	6.8	5.9	6.5	9.5	14	34	196	272	55	23
AC-FT	1380	797	520	407	482	949	1730	6140	49970	40460	7630	2170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1995, BY WATER YEAR (WY)

	MEAN	21.5	16.7	12.4	10.1	9.72	13.5	47.3	291	581	235	58.6	29.5
MAX	30.5	21.7	14.2	13.0	14.1	17.0	87.0	422	906	658	124	40.9	
(WY)	1994	1994	1994	1994	1994	1989	1989	1993	1993	1995	1995	1993	
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1988 - 1995

ANNUAL TOTAL	27646.2	56788.8	
ANNUAL MEAN	75.7	156	
HIGHEST ANNUAL MEAN			111
LOWEST ANNUAL MEAN			166
HIGHEST DAILY MEAN	682	Jun 1	1340
LOWEST DAILY MEAN	6.8	Dec 24	5.9
ANNUAL SEVEN-DAY MINIMUM	7.0	Dec 23	6.0
INSTANTANEOUS PEAK FLOW			1650
INSTANTANEOUS PEAK STAGE			11.23
ANNUAL RUNOFF (AC-FT)	54840	112600	80280
10 PERCENT EXCEEDS	281	667	383
50 PERCENT EXCEEDS	19	25	22
90 PERCENT EXCEEDS	11	7.0	9.5

a-Also occurred Jan 26 and 28.

b-Also occurred Jun 17.

c-Also occurred Jun 17, 1995.

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 mi².

PERIOD OF RECORD.--October 1963 to current year.

REVISED RECORDS.--WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder, and concrete control. Elevation of gage is 9,212 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 13 to Apr. 10. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.3	1.3	.94	1.1	1.0	1.4	1.7	23	54	4.3	2.0
2	1.9	1.3	1.3	.90	1.1	1.0	1.4	1.8	31	47	3.9	2.0
3	1.8	1.4	1.3	.96	1.1	1.0	1.5	1.8	41	51	3.6	2.1
4	1.6	1.4	1.3	1.1	1.0	1.0	1.6	1.8	50	51	3.5	2.1
5	1.6	1.4	1.3	1.0	1.0	.96	1.6	2.2	67	44	3.4	2.1
6	1.9	1.4	1.3	1.1	1.1	.92	1.8	2.4	81	44	3.4	2.1
7	1.8	1.3	1.1	1.1	1.1	.90	2.0	2.4	85	49	3.2	2.1
8	2.0	1.4	1.0	1.2	1.0	.96	2.1	2.2	79	51	3.2	2.6
9	2.0	1.4	.78	1.2	1.0	1.0	1.8	1.9	62	52	3.2	1.4
10	1.9	1.4	.84	1.2	.98	1.1	1.8	2.0	53	51	3.0	1.7
11	1.8	1.4	.92	1.1	.98	1.3	1.6	2.2	64	51	3.0	1.7
12	1.7	1.5	1.0	1.1	.98	1.3	1.5	1.5	92	42	2.9	1.8
13	1.6	1.5	1.1	1.1	.92	1.2	1.7	1.4	118	29	3.0	2.2
14	1.6	1.4	1.2	1.1	1.0	1.2	2.1	2.1	139	27	2.9	2.1
15	1.6	1.2	1.1	1.2	.90	1.3	1.8	4.2	148	21	2.9	2.0
16	1.6	1.3	1.1	1.1	.84	1.4	1.7	5.4	142	18	2.7	1.9
17	1.5	1.4	1.1	1.0	.86	1.5	1.9	4.9	141	16	2.5	1.9
18	1.5	1.3	1.1	.96	.88	1.6	1.8	4.8	139	15	2.4	2.0
19	1.5	1.3	1.0	1.0	.88	1.6	1.6	5.7	109	13	2.4	2.1
20	1.5	1.3	1.1	1.1	.90	1.6	1.6	6.7	114	12	2.7	2.3
21	1.5	1.4	1.0	1.0	.92	1.5	1.5	8.1	115	9.4	2.8	3.1
22	1.5	1.3	1.0	.90	.94	1.6	1.4	15	104	9.9	3.1	2.4
23	1.5	1.2	1.1	.86	.96	1.5	1.4	16	74	7.7	3.3	2.2
24	1.4	1.2	1.1	.98	.98	1.5	1.4	15	58	6.6	3.5	2.2
25	1.3	1.3	1.2	1.2	1.0	1.5	1.3	14	50	6.2	3.3	2.0
26	1.2	1.3	1.1	1.2	.98	1.4	1.3	14	51	6.1	3.0	2.0
27	1.4	1.3	1.1	1.1	1.1	1.5	1.4	14	47	5.6	2.7	2.0
28	1.4	1.2	1.1	1.0	1.0	1.4	1.9	11	44	5.1	2.5	2.7
29	1.4	1.1	1.1	1.0	---	1.4	2.1	13	45	5.2	2.4	4.5
30	1.4	1.2	1.1	1.0	---	1.3	1.8	16	45	4.7	2.2	3.4
31	1.3	---	1.1	1.0	---	1.3	---	17	---	4.5	2.1	---
TOTAL	49.5	39.8	34.24	32.70	27.50	39.74	49.8	212.2	2411	809.0	93.0	66.7
MEAN	1.60	1.33	1.10	1.05	.98	1.28	1.66	6.85	80.4	26.1	3.00	2.22
MAX	2.0	1.5	1.3	1.2	1.1	1.6	2.1	17	148	54	4.3	4.5
MIN	1.2	1.1	.78	.86	.84	.90	1.3	1.4	23	4.5	2.1	1.4
AC-FT	98	79	68	65	55	79	99	421	4780	1600	184	132

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1995, BY WATER YEAR (WY)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	1.98	1.52	1.22	1.04	.98	1.10	3.45	28.1	50.7	12.7	3.64	2.21																				
MAX	5.14	3.80	2.60	2.14	2.14	1.90	6.60	53.0	92.0	44.0	15.0	5.57																				
(WY)	1985	1985	1985	1985	1985	1985	1971	1974	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 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1964 - 1995
ANNUAL TOTAL	2320.60	3865.18	
ANNUAL MEAN	6.36	10.6	9.05
HIGHEST ANNUAL MEAN			14.9
LOWEST ANNUAL MEAN			4.31
HIGHEST DAILY MEAN	57 May 20	148 Jun 15	164 Jun 20 1983
LOWEST DAILY MEAN	.78 Dec 9	.78 Dec 9	.20 Jan 30 1970
ANNUAL SEVEN-DAY MINIMUM	.96 Dec 7	.88 Feb 15	.34 Jan 28 1970
INSTANTANEOUS PEAK FLOW		223 Jun 17	223 Jun 17 1995
INSTANTANEOUS PEAK STAGE		4.58 Jun 17	a 4.58 Jun 17 1995
ANNUAL RUNOFF (AC-FT)	4600	7670	6560
10 PERCENT EXCEEDS	20	44	29
50 PERCENT EXCEEDS	1.6	1.6	1.8
90 PERCENT EXCEEDS	1.2	1.0	.80

a-Maximum gage height, 5.18 ft, Apr 17, 1987, backwater from ice.

09066980 LAKE CREEK NEAR EDWARDS, CO

LOCATION.--Lat 39°38'51", long 106°36'31", in SE¹/4NE¹/4 sec.6, T.5 S., R.82 W., Eagle County, Hydrologic Unit 14010003, on right bank 30 ft upstream from U.S. Highway 6, and 1.0 mi west of Edwards.

DRAINAGE AREA.--49.0 mi².

PERIOD OF RECORD.--October 1993 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,160 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 16 to Feb. 5, and Feb. 16 to Mar. 10. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	24	12	9.0	9.5	11	11	20	70	268	177	62
2	26	23	12	8.2	9.6	11	11	23	98	246	154	59
3	24	23	12	9.6	9.4	11	11	23	135	243	148	58
4	23	22	12	9.2	9.4	11	12	21	155	217	143	57
5	24	20	13	9.5	9.8	10	14	22	174	159	145	56
6	30	22	13	9.8	10	9.6	16	24	211	168	138	54
7	29	22	12	10	10	9.2	17	24	220	227	126	53
8	28	22	12	10	10	9.5	19	26	227	263	136	62
9	28	19	11	10	10	10	19	25	222	323	139	59
10	28	18	9.8	9.8	9.9	11	16	24	143	359	124	54
11	27	17	11	10	10	12	14	26	129	355	149	51
12	26	19	12	9.6	9.8	13	14	32	216	429	152	45
13	25	19	13	9.4	11	11	15	30	343	401	138	40
14	23	15	12	9.6	12	11	17	28	456	487	132	37
15	24	14	12	9.9	11	12	15	36	539	464	122	31
16	25	16	11	9.6	10	14	15	50	845	411	104	31
17	28	16	11	9.4	11	14	15	57	839	422	94	32
18	29	15	11	8.5	11	14	15	52	664	361	90	32
19	29	15	11	8.7	11	15	17	52	363	354	90	36
20	29	15	11	8.8	11	14	16	56	366	379	84	33
21	30	15	10	9.3	11	16	15	59	424	299	95	37
22	29	14	11	9.8	12	16	14	68	389	243	115	33
23	28	13	11	10	12	14	14	81	354	248	115	29
24	27	12	12	9.6	12	15	14	78	306	228	191	28
25	26	13	12	9.4	11	13	15	68	284	228	186	26
26	26	13	12	9.5	11	13	18	63	280	250	121	24
27	25	13	11	9.4	11	12	16	63	299	240	117	23
28	24	12	11	9.3	11	12	18	57	278	219	104	25
29	25	12	11	9.1	---	12	19	54	298	215	91	46
30	25	11	11	9.0	---	12	21	54	277	202	81	46
31	22	---	10	9.3	---	11	---	61	---	189	71	---
TOTAL	814	504	355.8	292.3	296.4	379.3	463	1357	9604	9097	3872	1259
MEAN	26.3	16.8	11.5	9.43	10.6	12.2	15.4	43.8	320	293	125	42.0
MAX	30	24	13	10	12	16	21	81	845	487	191	62
MIN	22	11	9.8	8.2	9.4	9.2	11	20	70	159	71	23
AC-FT	1610	1000	706	580	588	752	918	2690	19050	18040	7680	2500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	MEAN	26.2	17.6	11.2	9.54	9.92	11.4	19.0	92.5	262	169	74.7	32.7
MAX	26.3	18.4	11.5	9.66	10.6	12.2	22.5	141	320	293	125	42.0	
(WY)	1995	1994	1995	1994	1995	1995	1994	1994	1995	1995	1995	1995	
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	16599.9	28293.8	
ANNUAL MEAN	45.5	77.5	61.5
HIGHEST ANNUAL MEAN			77.5
LOWEST ANNUAL MEAN			45.5
HIGHEST DAILY MEAN	403	845	845
LOWEST DAILY MEAN	7.0	8.2	7.0
ANNUAL SEVEN-DAY MINIMUM	8.0	9.2	8.0
INSTANTANEOUS PEAK FLOW		1290	1290
INSTANTANEOUS PEAK STAGE		3.63	3.63
ANNUAL RUNOFF (AC-FT)	32930	56120	44580
10 PERCENT EXCEEDS	168	244	202
50 PERCENT EXCEEDS	21	22	22
90 PERCENT EXCEEDS	9.5	9.9	9.5

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 mi².

PERIOD OF RECORD.--January to December 1911, January 1912 to September 1914, gage heights and discharge measurements only, May 1974 to February 1988. October 1988 to current year.

REVISED RECORDS.--WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder. 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.--Estimated daily discharges: Nov. 13 to Jan 22, Feb. 15, 16, Mar. 7-9, 27, 29-31, and Apr. 1. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	4.3	2.2	1.5	2.1	2.6	3.1	5.6	30	80	30	8.9
2	4.0	3.3	2.2	1.3	2.1	2.5	3.1	7.8	39	76	28	8.2
3	3.9	2.6	2.1	1.4	2.0	2.6	3.4	8.5	45	84	26	8.9
4	3.6	3.6	2.2	1.5	2.0	2.6	4.0	8.2	49	80	24	8.5
5	4.0	3.4	2.1	1.5	2.0	2.5	4.6	8.9	59	73	24	8.9
6	5.0	3.5	2.0	1.6	2.1	2.6	4.9	8.6	70	73	23	9.0
7	4.3	2.8	1.9	1.6	2.1	2.5	5.2	8.4	71	75	23	9.2
8	3.8	2.8	1.8	1.5	2.1	2.5	5.7	9.3	86	79	22	10
9	3.5	2.5	1.8	1.6	2.1	2.6	5.5	9.3	74	80	22	10
10	3.4	3.1	1.5	1.6	2.0	2.7	4.4	8.7	56	81	21	9.4
11	3.4	3.2	1.4	1.6	2.1	2.8	4.0	9.3	54	85	21	9.7
12	3.2	3.1	1.3	1.5	2.2	3.1	4.3	12	58	89	21	9.2
13	3.1	2.5	1.4	1.5	2.4	2.7	4.8	11	68	98	20	9.6
14	2.6	2.4	1.5	1.6	2.3	2.9	5.0	12	85	100	19	9.2
15	3.0	2.5	1.6	1.6	2.0	3.3	4.3	17	142	95	17	8.8
16	3.0	2.7	1.5	1.7	2.3	3.9	4.5	19	188	83	17	9.1
17	2.6	2.7	1.5	1.6	2.6	4.1	4.6	21	157	77	16	8.7
18	2.6	2.7	1.5	1.5	2.5	4.5	4.4	20	143	75	16	9.5
19	2.2	2.7	1.6	1.6	2.5	4.3	4.4	22	121	69	15	10
20	2.0	2.6	1.6	1.6	2.7	3.9	4.4	23	118	64	16	10
21	2.6	2.6	1.5	1.6	2.7	4.5	4.1	24	122	56	17	11
22	2.6	2.4	1.4	1.8	2.7	4.5	3.9	29	129	53	17	10
23	2.5	2.2	1.4	1.9	2.6	4.1	4.0	32	91	50	19	10
24	2.2	2.1	1.4	2.0	2.7	4.0	4.0	28	83	46	17	9.9
25	2.2	2.3	1.5	2.0	2.6	3.6	4.2	25	79	43	19	9.6
26	2.0	2.4	1.6	2.1	2.7	3.7	5.2	22	75	42	14	9.5
27	2.2	2.5	1.5	2.0	2.6	3.2	4.8	23	76	38	12	9.5
28	2.5	2.5	1.5	2.0	2.7	3.2	5.8	20	77	36	11	9.5
29	2.9	2.4	1.5	2.0	---	3.1	5.7	20	79	35	11	12
30	3.3	2.2	1.6	1.9	---	3.1	6.6	21	81	34	9.7	9.7
31	3.1	---	1.6	1.9	---	3.0	---	26	---	32	8.7	---
TOTAL	96.0	82.6	51.2	52.1	65.5	101.2	136.9	519.6	2605	2081	576.4	285.5
MEAN	3.10	2.75	1.65	1.68	2.34	3.26	4.56	16.8	86.8	67.1	18.6	9.52
MAX	5.0	4.3	2.2	2.1	2.7	4.5	6.6	32	188	100	30	12
MIN	2.0	2.1	1.3	1.3	2.0	2.5	3.1	5.6	30	32	8.7	8.2
AC-FT	190	164	102	103	130	201	272	1030	5170	4130	1140	566

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1995, BY WATER YEAR (WY)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	4.05	3.36	2.86	2.43	2.28	2.81	5.84	26.0	62.2	31.0	9.95	5.63										
MAX	8.27	5.54	5.01	4.17	3.99	3.88	9.94	51.7	114	79.5	25.6	10.6										
(WY)	1985	1984	1984	1986	1986	1986	1989	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 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1974 - 1995
ANNUAL TOTAL	3486.2	6653.0	
ANNUAL MEAN	9.55	18.2	13.2
HIGHEST ANNUAL MEAN			22.7
LOWEST ANNUAL MEAN			4.94
HIGHEST DAILY MEAN	a68	188	242
LOWEST DAILY MEAN	1.3	b1.3	.55
ANNUAL SEVEN-DAY MINIMUM	1.5	1.5	.75
INSTANTANEOUS PEAK FLOW		231	249
INSTANTANEOUS PEAK STAGE		3.45	3.46
ANNUAL RUNOFF (AC-FT)	6910	13200	9550
10 PERCENT EXCEEDS	34	73	39
50 PERCENT EXCEEDS	3.5	4.1	4.2
90 PERCENT EXCEEDS	2.1	1.6	2.0

a-Also occurred Jun 2.

b-Also occurred Jan 2.

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 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 7,410 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 24-26 and Nov. 28 to Mar. 8. Records good 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	68	64	49	48	46	71	169	1000	2280	942	230
2	91	78	64	43	50	47	74	210	1360	2170	835	217
3	92	76	64	46	48	47	76	232	1610	2300	766	213
4	86	72	66	50	47	47	83	219	1890	2130	779	207
5	82	60	68	45	47	48	97	253	2080	1920	784	195
6	98	72	68	42	48	45	115	292	2210	1960	742	193
7	109	72	64	43	49	42	143	288	2260	2180	696	191
8	111	72	60	45	50	50	182	286	2190	2360	700	262
9	106	72	47	46	48	59	202	255	2110	2500	701	255
10	103	64	36	47	47	63	155	258	1720	2630	626	209
11	101	69	45	47	47	70	127	329	1610	2690	626	199
12	100	76	54	45	46	75	119	398	2010	2760	656	181
13	100	82	66	44	47	70	132	376	2500	2610	649	162
14	100	62	68	44	47	71	157	370	2790	2510	615	153
15	99	37	62	44	45	78	134	541	2750	2370	544	145
16	104	55	66	43	44	87	127	730	2390	2230	435	135
17	97	73	66	43	45	93	139	731	2670	2160	388	127
18	90	62	60	40	46	94	130	675	2930	2020	387	138
19	93	67	64	38	46	98	130	701	2590	1940	366	165
20	92	65	58	40	47	89	128	761	2430	1900	346	154
21	85	68	58	42	47	91	115	785	2620	1660	337	206
22	84	69	58	40	48	97	105	983	2680	1560	502	166
23	81	62	60	37	48	87	110	1130	2600	1490	425	146
24	77	56	64	40	49	92	103	1100	2450	1360	527	134
25	75	54	66	46	50	83	103	974	2350	1320	502	124
26	76	58	66	54	47	84	117	862	2360	1350	400	120
27	74	63	64	58	45	77	110	890	2450	1340	359	119
28	74	62	64	58	46	76	137	739	2420	1180	334	124
29	69	56	64	54	---	73	173	735	2420	1120	294	231
30	70	60	64	50	---	75	192	779	2280	1070	266	261
31	68	---	56	47	---	67	---	833	---	1020	242	---
TOTAL	2769	1962	1894	1410	1322	2221	3786	17884	67730	60090	16771	5362
MEAN	89.3	65.4	61.1	45.5	47.2	71.6	126	577	2258	1938	541	179
MAX	111	82	68	58	50	98	202	1130	2930	2760	942	262
MIN	68	37	36	37	44	42	71	169	1000	1020	242	119
AC-FT	5490	3890	3760	2800	2620	4410	7510	35470	134300	119200	33270	10640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1995, BY WATER YEAR (WY)

	MEAN	92.3	73.4	59.1	50.9	48.9	60.9	206	1084	1563	731	233	133
MAX	118	86.9	71.2	63.6	59.7	73.4	349	1850	2450	1938	541	179	
(WY)	1994	1994	1994	1994	1994	1993	1989	1993	1993	1995	1995	1995	1995
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1989 - 1995

ANNUAL TOTAL	98927	183201		
ANNUAL MEAN	271	502		
HIGHEST ANNUAL MEAN			362	
LOWEST ANNUAL MEAN			542	1993
HIGHEST DAILY MEAN	1930	Jun 1	2930	Jun 18
LOWEST DAILY MEAN	36	Dec 10	36	Dec 10
ANNUAL SEVEN-DAY MINIMUM	51	Jan 29	40	Jan 18
INSTANTANEOUS PEAK FLOW			3270	Jun 18
INSTANTANEOUS PEAK STAGE			4.75	Jun 18
ANNUAL RUNOFF (AC-FT)	196200	363400	262500	5.14
10 PERCENT EXCEEDS	911	2120	1160	
50 PERCENT EXCEEDS	82	103	98	
90 PERCENT EXCEEDS	58	47	46	

a-Also occurred Jan 5-6, 1990.

09067005 EAGLE RIVER AT AVON, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

		DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS. / 100 ML)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	
OCT 25...	1815	73	348	8.2	5.0	9.3	K12	K5	--	--	
MAR 08...	1230	51	429	8.2	2.0	12.5	K20	<1	--	--	
APR 05...	1115	88	364	8.2	8.0	9.8	--	--	160	43	
MAY 25...	0845	956	161	8.1	3.5	9.9	K11	K11	--	--	
AUG 23...	0805	434	150	7.0	13.5	8.1	120	130	--	--	
DATE		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
APR 05...	12	8.7	0.3	1.2	83	75	9.4	0.1	5.8	207	
DATE		SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)
OCT 25...	--	--	--	<0.01	0.15	<0.015	--	<0.2	--	<0.01	<0.01
MAR 08...	--	--	--	<0.01	0.65	0.020	--	<0.2	--	0.05	0.06
APR 05...	0.30	51.8	<0.01	0.26	0.020	<0.2	<0.2	<0.01	<0.01	<0.01	<0.01
MAY 25...	--	--	<0.01	<0.05	<0.015	--	0.2	--	0.02	<0.01	<0.01
AUG 23...	--	--	<0.01	0.10	<0.015	--	<0.2	--	<0.01	<0.01	<0.01
DATE		CADMIUM DIS-SOLVED (UG/L AS CD)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 25...	<1	1	390	<1	270	270	<0.1	<1	<0.2	110	
MAR 08...	4	4	450	<1	450	410	<0.1	<1	<0.2	190	
APR 05...	--	--	--	--	--	710	--	--	--	--	
MAY 25...	<1	4	580	<1	180	110	<0.1	<1	<0.2	100	
AUG 23...	<1	1	250	<1	70	70	<0.1	<1	<0.2	40	

K-Based on non-ideal colony count.

09067005 EAGLE RIVER AT AVON, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT					MAY				
05...	1204	80.8	346	9.0	24...	1700	945	170	6.5
NOV					JUN				
09...	0910	72.2	316	1.0	12...	1900	2110	121	10.0
JAN					JUL				
10...	1530	47.3	422	0.0	13...	1745	2460	91	9.5
MAR					26...	1320	1240	104	11.0
01...	1505	--	380	2.0	AUG				
APR					25...	1045	523	109	11.5
13...	1530	108	315	8.5					

09069000 EAGLE RIVER AT GYPSUM, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°39'00", long 106°57'06", Eagle County, Hydrologic Unit 14010003, at bridge at Gypsum, about 400 ft upstream from Gypsum Creek, about 520 ft upstream from bridge on U.S. Highways 6 and 24, and about 550 ft upstream from gaging station.

DRAINAGE AREA.--944 mi², at gaging station.

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1947 to March 31, 1995 (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 TEMPERATURES: Maximum daily, 24°C Aug. 24, 1949, several days in August, 1988, and July 27, 1990; minimum daily, 0.0°C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: For the period October 1994 to March 1995; Maximum daily, 1,050 microsiemens, many days in March; minimum daily, 600 microsiemens on November 9.

WATER TEMPERATURES: For the period October 1994 to March 1995; Maximum daily, 13.0°C on March 31; minimum daily, 0.0°C on many days during winter.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARDNESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM AD-SORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)
OCT 25...	1515	186	858	8.7	9.0	10.8	310	94	19	49	1	2.4
MAR 20...	1420	237	790	8.3	8.0	9.8	290	86	19	44	1	2.7
APR 05...	0920	195	845	8.3	6.0	9.8	290	86	18	43	1	2.2
JUN 18...	1325	5700	163	7.9	8.0	9.6	71	22	4.0	2.9	0.1	1.0
AUG 22...	1130	728	--	8.2	17.0	8.5	180	55	10	20	0.7	1.3

DATE	BICARBONATE WATER DIS-IT FIELD HCO3	ALKALINITY WAT DIS-TOT IT FIELD MG/L AS CaCO3	ALKALINITY LAB (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
OCT 25...	--	--	131	220	68	0.1	7.0	--	539	0.73	271	8
MAR 20...	--	--	121	180	62	0.1	7.6	--	477	0.65	305	56
APR 05...	--	--	131	190	67	0.2	5.2	527	492	0.72	249	--
JUN 18...	57	47	57	23	2.9	<0.1	5.2	--	90	0.12	1380	140
AUG 22...	--	--	90	92	25	0.1	6.0	--	264	0.36	520	16

DATE	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS DIS-SOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, SUS-PENDED TOTAL (MG/L AS C)
OCT 25...	<0.01	0.21	<0.02	<0.2	<0.2	0.01	0.01	<0.01	--	--
MAR 20...	0.01	0.59	0.03	<0.2	<0.2	0.14	0.04	0.06	--	--
APR 05...	<0.01	0.33	<0.02	0.2	<0.2	0.03	0.01	0.02	--	--
JUN 18...	<0.01	0.09	0.03	0.5	<0.2	0.19	0.02	0.01	4.6	2.8
AUG 22...	<0.01	0.18	<0.02	0.2	<0.2	0.04	0.04	0.02	--	--

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

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

09069000 EAGLE RIVER AT GYPSUM, CO--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	ANTI-MONY, DIS-SOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL- LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS-SOLVED (UG/L AS CR)
OCT 25...	<1	<1	<1	47	<0.5	--	<1	--	<1
MAR 20...	<1	<1	<1	45	<0.5	<1	<1	2	<1
JUN 18...	<1	2	<1	25	<0.5	--	<1	--	<1
AUG 22...	<1	<1	<1	47	<0.5	--	<1	--	<1

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA- NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)
OCT 25...	--	1	31	--	<1	32	<0.1	0.1
MAR 20...	4	1	13	3	<1	110	<0.1	<0.1
APR 05...	--	--	4	--	--	79	--	--
JUN 18...	--	2	93	--	1	30	<0.1	<0.1
AUG 22...	--	<1	40	--	<1	28	<0.1	<0.1

DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 25...	--	1	<1	<1	--	<1	--	18
MAR 20...	2	<1	<1	1	<1	<1	120	33
JUN 18...	--	<1	<1	<1	--	<1	--	20
AUG 22...	--	<1	<1	<1	--	<1	<10	14

09069000 EAGLE RIVER AT GYPSUM, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	800	750	1020	950	900	1000	---	---	---	---	---	---
2	800	750	1020	950	900	1000	---	---	---	---	---	---
3	800	750	950	950	900	1000	---	---	---	---	---	---
4	850	750	700	950	900	1000	---	---	---	---	---	---
5	850	700	675	1000	900	1000	---	---	---	---	---	---
6	800	700	750	1000	900	1000	---	---	---	---	---	---
7	750	650	825	1000	900	1000	---	---	---	---	---	---
8	750	650	850	950	900	1000	---	---	---	---	---	---
9	800	600	800	950	900	1000	---	---	---	---	---	---
10	800	650	800	950	900	1000	---	---	---	---	---	---
11	800	750	800	950	950	1000	---	---	---	---	---	---
12	800	800	800	950	950	1000	---	---	---	---	---	---
13	800	900	800	1000	950	1000	---	---	---	---	---	---
14	750	860	1000	1000	950	1000	---	---	---	---	---	---
15	750	900	850	1000	950	1050	---	---	---	---	---	---
16	800	860	850	1020	950	1050	---	---	---	---	---	---
17	800	860	850	1020	950	1050	---	---	---	---	---	---
18	800	860	900	1000	950	1050	---	---	---	---	---	---
19	800	860	900	950	1000	1000	---	---	---	---	---	---
20	800	860	900	950	1000	1000	---	---	---	---	---	---
21	850	860	900	1000	1000	1000	---	---	---	---	---	---
22	850	900	950	1000	1000	1000	---	---	---	---	---	---
23	800	950	950	1000	1000	1050	---	---	---	---	---	---
24	800	1000	950	1000	1000	1050	---	---	---	---	---	---
25	750	1000	950	1000	1000	1050	---	---	---	---	---	---
26	750	1020	1000	1000	1000	1050	---	---	---	---	---	---
27	750	1000	1000	950	1000	1050	---	---	---	---	---	---
28	750	1020	1000	950	1000	1050	---	---	---	---	---	---
29	800	1000	1000	950	---	1050	---	---	---	---	---	---
30	800	1000	950	900	---	1050	---	---	---	---	---	---
31	750	---	950	900	---	1050	---	---	---	---	---	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	8.0	.0	.0	4.0	7.0	---	---	---	---	---	---
2	12.0	8.0	1.0	.0	4.0	7.0	---	---	---	---	---	---
3	11.0	8.0	2.0	.0	5.0	8.0	---	---	---	---	---	---
4	11.0	7.0	2.0	.0	5.0	8.0	---	---	---	---	---	---
5	11.0	7.0	2.0	1.0	5.0	8.0	---	---	---	---	---	---
6	12.0	7.0	2.0	1.0	5.0	9.0	---	---	---	---	---	---
7	11.0	6.0	2.0	1.0	5.0	8.0	---	---	---	---	---	---
8	11.0	6.0	.0	2.0	5.0	8.0	---	---	---	---	---	---
9	11.0	5.0	.0	2.0	4.0	8.0	---	---	---	---	---	---
10	12.0	5.0	.0	1.0	4.0	8.0	---	---	---	---	---	---
11	12.0	5.0	.0	2.0	5.0	8.0	---	---	---	---	---	---
12	12.0	5.0	.0	2.0	5.0	8.0	---	---	---	---	---	---
13	11.0	5.0	.0	1.0	5.0	8.0	---	---	---	---	---	---
14	11.0	4.0	1.0	.0	5.0	10.0	---	---	---	---	---	---
15	10.0	4.0	.0	.0	6.0	10.0	---	---	---	---	---	---
16	9.0	3.0	.0	.0	6.0	10.0	---	---	---	---	---	---
17	9.0	3.0	.0	.0	6.0	10.0	---	---	---	---	---	---
18	8.0	3.0	1.0	1.0	6.0	10.0	---	---	---	---	---	---
19	8.0	2.0	1.0	1.0	6.0	10.0	---	---	---	---	---	---
20	8.0	3.0	1.0	1.0	6.0	9.0	---	---	---	---	---	---
21	9.0	3.0	1.0	2.0	7.0	10.0	---	---	---	---	---	---
22	9.0	3.0	.0	2.0	7.0	10.0	---	---	---	---	---	---
23	10.0	2.0	.0	1.0	7.0	11.0	---	---	---	---	---	---
24	10.0	2.0	.0	1.0	7.0	11.0	---	---	---	---	---	---
25	9.0	1.0	.0	2.0	7.0	11.0	---	---	---	---	---	---
26	10.0	1.0	.0	1.0	7.0	12.0	---	---	---	---	---	---
27	10.0	.0	.0	1.0	6.0	12.0	---	---	---	---	---	---
28	9.0	.0	.0	2.0	7.0	12.0	---	---	---	---	---	---
29	9.0	1.0	.0	3.0	---	12.0	---	---	---	---	---	---
30	8.0	1.0	.0	4.0	---	12.0	---	---	---	---	---	---
31	8.0	---	.0	4.0	---	13.0	---	---	---	---	---	---

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 mi².

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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	185	200	123	157	187	169	301	1260	3700	1390	405
2	237	199	191	109	162	174	175	316	1610	3500	1230	385
3	226	203	186	121	156	173	179	370	1890	3580	1120	376
4	208	204	187	157	146	176	185	345	2190	3460	1100	372
5	203	198	193	140	151	170	203	354	2450	2960	1120	365
6	246	195	198	156	159	177	228	412	2970	2870	1070	352
7	248	201	188	164	161	146	255	417	3140	3190	1010	349
8	246	207	180	168	154	143	281	416	3060	3490	997	377
9	236	209	103	173	149	156	328	395	3070	3780	1010	432
10	227	199	78	165	145	171	294	378	2430	3960	921	391
11	224	194	104	165	148	184	261	428	2100	4060	907	370
12	222	201	144	160	149	205	246	562	2590	4150	976	342
13	222	216	167	154	141	191	244	582	3470	3950	927	302
14	218	195	191	153	166	181	273	519	4150	3790	891	287
15	219	150	175	160	158	186	272	641	4870	3520	833	279
16	224	157	158	156	134	202	254	945	5180	3270	682	270
17	218	219	167	141	144	222	252	1050	5280	3110	603	265
18	213	199	156	126	160	226	249	940	5640	2880	582	265
19	213	203	165	137	165	246	250	922	4640	2730	569	284
20	210	203	159	151	167	233	241	1030	4550	2770	557	278
21	202	204	150	129	169	229	235	1050	4710	2390	549	302
22	199	204	150	104	172	249	220	1210	4730	2160	672	308
23	194	161	154	92	175	228	214	1430	4440	2090	653	286
24	191	155	168	108	176	228	208	1400	4050	1880	800	280
25	183	203	177	157	180	219	201	1290	3750	1780	855	277
26	175	204	178	167	187	214	224	1160	3650	1840	671	276
27	197	188	168	158	180	202	222	1160	3850	1920	596	272
28	197	191	162	151	185	200	222	1040	3800	1760	569	276
29	195	147	167	145	---	194	260	1000	3900	1630	521	384
30	197	187	170	142	---	183	302	1070	3700	1580	483	468
31	199	---	163	146	---	176	---	1130	---	1500	437	---
TOTAL	6574	5781	5097	4478	4496	6071	7147	24263	107120	89250	25301	9875
MEAN	212	193	164	144	161	196	238	783	3571	2879	816	329
MAX	248	219	200	173	187	249	328	1430	5640	4150	1390	468
MIN	175	147	78	92	134	143	169	301	1260	1500	437	265
AC-FT	13040	11470	10110	8880	8920	12040	14180	48130	212500	177000	50180	19590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1995, BY WATER YEAR (WY)

	MEAN	257	240	198	180	173	186	347	1307	2297	1034	385	268
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1947 - 1995

ANNUAL TOTAL	146854	295453		
ANNUAL MEAN	402	809		
HIGHEST ANNUAL MEAN			573	
LOWEST ANNUAL MEAN			1082	1984
HIGHEST DAILY MEAN	2400	Jun 1	5640	Jun 18
LOWEST DAILY MEAN	78	Dec 10	78	Dec 10
ANNUAL SEVEN-DAY MINIMUM	131	Jan 28	121	Jan 18
INSTANTANEOUS PEAK FLOW			6360	Jun 18
INSTANTANEOUS PEAK STAGE			9.11	Jun 18
ANNUAL RUNOFF (AC-FT)	291300	586000		415400
10 PERCENT EXCEEDS	1220	3010		1570
50 PERCENT EXCEEDS	194	227		240
90 PERCENT EXCEEDS	152	154		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 mi².

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,130 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 21 to Feb. 3. 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. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1070	719	783	350	725	688	804	1530	4450	10300	4670	1700
2	1160	701	755	450	711	670	807	1580	5330	10300	4510	1560
3	1150	699	741	500	700	668	839	1490	6090	10300	4360	1530
4	1100	763	711	640	674	673	856	1400	6930	10500	3980	1520
5	1090	780	752	580	680	674	916	1310	7720	9930	3800	1510
6	1130	776	764	640	691	667	1020	1500	8650	9240	3620	1490
7	1090	795	712	650	696	608	1110	1570	9060	9220	3470	1410
8	1100	806	750	660	691	571	1210	1580	9180	9450	3280	1450
9	1080	809	475	670	699	632	1300	1560	9360	9720	3160	1610
10	1050	795	385	660	692	659	1290	1480	8880	9990	3000	1520
11	1050	775	533	650	679	687	1160	1570	8150	10500	2980	1470
12	1020	785	801	640	628	746	1130	1900	8230	11600	3010	1440
13	1030	813	946	620	616	768	1110	2080	9500	12200	2970	1380
14	1030	794	931	600	642	743	1220	1990	11200	12000	2910	1400
15	1030	674	832	755	597	777	1290	2150	12700	11600	2840	1320
16	1030	622	815	746	563	823	1290	2760	13600	11000	2680	1280
17	1030	807	814	674	604	939	1210	3270	13800	10300	2540	1250
18	1020	701	832	680	637	1020	1230	3330	14600	9600	2330	1250
19	1040	750	843	781	649	1090	1260	3270	13200	8950	2170	1300
20	1060	753	829	745	658	1130	1240	3410	12900	8780	2060	1280
21	1050	782	750	773	662	1040	1220	3410	12500	8470	2050	1290
22	1040	777	700	587	668	1030	1190	3540	12300	8590	2190	1320
23	1040	628	770	538	668	1070	1160	3980	11700	8370	2250	1290
24	1020	575	820	630	668	1030	1150	3950	10800	7840	2320	1260
25	1020	643	760	648	682	1010	1140	3990	10100	7160	2400	1260
26	1020	761	680	713	694	975	1180	3940	9650	6410	2290	1250
27	1040	681	630	754	689	908	1160	3960	9760	5880	2210	1260
28	1060	680	600	723	679	905	1180	3680	9660	5430	2200	1250
29	958	549	620	719	---	892	1220	3500	9960	5170	2110	1420
30	861	783	680	726	---	844	1360	3740	9950	4970	1910	1640
31	806	---	600	722	---	803	---	3960	---	4840	1830	---
TOTAL	32275	21976	22614	20224	18642	25740	34252	82380	299910	278610	88100	41910
MEAN	1041	733	729	652	666	830	1142	2657	9997	8987	2842	1397
MAX	1160	813	946	781	725	1130	1360	3990	14600	12200	4670	1700
MIN	806	549	385	350	563	571	804	1310	4450	4840	1830	1250
AC-FT	64020	43590	44850	40110	36980	51060	67940	163400	594900	552600	174700	83130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

MEAN	1188	1075	946	899	910	1021	1843	4786	6357	3181	1701	1280
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 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1941 - 1995

ANNUAL TOTAL	494170	966633	
ANNUAL MEAN	1354	2648	2102
HIGHEST ANNUAL MEAN			4173
LOWEST ANNUAL MEAN			1117
HIGHEST DAILY MEAN	4380	Jun 2	14600
LOWEST DAILY MEAN	385	Dec 10	350
ANNUAL SEVEN-DAY MINIMUM	624	Dec 5	537
INSTANTANEOUS PEAK FLOW			15400
INSTANTANEOUS PEAK STAGE			11.21
ANNUAL RUNOFF (AC-FT)	980200	1917000	1523000
10 PERCENT EXCEEDS	2640	9230	4950
50 PERCENT EXCEEDS	1080	1100	1250
90 PERCENT EXCEEDS	768	650	750

09071300 GRIZZLY CREEK NEAR GLENWOOD SPRINGS, CO

LOCATION.--Lat 39°43'00", long 107°18'35", in NE¹/4SW¹/4 sec.7, T.4 S., R.88 W., Garfield County, Hydrologic Unit 14010001, on left bank 0.5 mi west of Grizzly Cow Camp and 14 mi north of Glenwood Springs.

DRAINAGE AREA.--5.73 mi².

PERIOD OF RECORD.--September 1976 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 10,435 ft above sea level, from topographic map. Prior to Oct. 19, 1978, at site 600 ft upstream, at datum 25.33 ft higher.

REMARKS.--Estimated daily discharges: Oct. 29 to June 12. Records good except for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.3	.50	.20	.14	.12	.13	.18	35	154	7.2	2.0
2	1.7	1.3	.40	.15	.14	.12	.13	.20	50	153	6.7	2.0
3	1.6	1.3	.40	.11	.14	.12	.13	.30	70	159	6.1	2.0
4	1.9	1.3	.40	.14	.14	.12	.13	.40	100	138	5.8	1.9
5	1.8	1.2	.40	.15	.14	.12	.13	.50	130	123	5.5	2.0
6	1.9	1.2	.40	.15	.14	.12	.13	.60	150	117	5.0	2.0
7	1.7	1.2	.40	.15	.14	.12	.13	.60	160	124	4.1	1.9
8	1.6	1.1	.40	.15	.14	.13	.13	.70	150	134	3.7	2.2
9	1.8	1.1	.40	.15	.14	.13	.13	.70	135	138	3.8	2.1
10	1.9	1.1	.30	.15	.14	.13	.13	.80	110	141	3.8	2.0
11	1.9	1.1	.30	.15	.14	.13	.14	.80	120	141	4.2	2.2
12	1.9	1.0	.30	.15	.14	.13	.14	.90	130	134	4.3	2.0
13	2.1	1.0	.30	.15	.13	.13	.14	.90	145	116	4.7	1.9
14	1.9	1.0	.30	.15	.13	.13	.14	.80	154	88	3.9	1.5
15	2.3	1.0	.30	.15	.13	.13	.14	.80	170	52	3.6	1.6
16	2.1	.90	.30	.15	.13	.13	.14	.90	234	42	3.4	1.6
17	1.6	.90	.30	.15	.13	.13	.14	.90	266	35	3.3	1.5
18	1.8	.90	.30	.15	.12	.13	.14	1.0	158	32	3.2	1.8
19	1.8	.90	.30	.15	.12	.13	.14	1.0	139	30	3.1	1.9
20	1.7	.80	.30	.14	.12	.13	.14	1.1	147	27	3.0	1.8
21	1.7	.80	.20	.14	.12	.13	.14	2.5	175	26	2.9	1.7
22	1.7	.80	.20	.14	.12	.13	.14	4.0	192	21	2.9	1.6
23	1.7	.70	.20	.14	.12	.13	.14	5.0	181	18	3.0	1.6
24	1.7	.70	.20	.14	.12	.13	.15	6.0	155	16	2.8	1.5
25	1.7	.60	.20	.14	.12	.13	.15	7.0	161	14	2.8	1.5
26	1.7	.60	.20	.14	.12	.13	.15	7.0	167	13	2.8	1.5
27	1.5	.60	.20	.14	.12	.13	.15	6.5	178	11	2.4	1.7
28	1.6	.50	.20	.14	.12	.13	.15	6.5	203	9.9	2.3	1.8
29	1.5	.50	.20	.14	---	.13	.14	8.0	198	9.2	2.1	2.6
30	1.4	.50	.20	.14	---	.13	.15	10	160	8.6	2.1	2.3
31	1.4	---	.20	.14	---	.13	---	20	---	7.9	2.1	---
TOTAL	54.2	27.9	9.2	4.53	3.65	3.96	4.16	96.58	4523	2232.6	116.6	55.7
MEAN	1.75	.93	.30	.15	.13	.13	.14	3.12	151	72.0	3.76	1.86
MAX	2.3	1.3	.50	.20	.14	.13	.15	20	266	159	7.2	2.6
MIN	1.4	.50	.20	.11	.12	.12	.13	.18	35	7.9	2.1	1.5
AC-FT	108	55	18	9.0	7.2	7.9	8.3	192	8970	4430	231	110

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1995, BY WATER YEAR (WY)

	MEAN	2.22	1.56	.97	.56	.42	.38	1.91	39.1	93.5	16.7	2.47	1.82
MAX	7.42	5.07	3.12	2.21	1.90	1.87	10.9	75.9	206	72.0	5.78	5.35	
(WY)	1985	1983	1983	1985	1985	1985	1987	1987	1986	1995	1984	1984	
MIN	.44	.25	.14	.000	.000	.000	.000	3.12	13.0	1.33	.55	.55	
(WY)	1993	1978	1978	1978	1978	1980	1991	1995	1977	1977	1977	1977	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1976 - 1995

ANNUAL TOTAL	3406.85	7132.08		
ANNUAL MEAN	9.33	19.5	13.4	
HIGHEST ANNUAL MEAN			23.8	1986
LOWEST ANNUAL MEAN			5.79	1977
HIGHEST DAILY MEAN	151	May 31	266	Jun 17
LOWEST DAILY MEAN	a .20	Dec 21	.11	Jan 3
ANNUAL SEVEN-DAY MINIMUM	.20	Dec 21	.12	Feb 18
INSTANTANEOUS PEAK FLOW			333	Jun 17
INSTANTANEOUS PEAK STAGE			5.46	Jun 17
ANNUAL RUNOFF (AC-FT)	6760	14150	9740	
10 PERCENT EXCEEDS	19	118	39	
50 PERCENT EXCEEDS	1.3	.90	1.2	
90 PERCENT EXCEEDS	.60	.13	.06	

a-Also occurred Dec 22-31.

b-No flow many days some years.

c-Maximum gage height observed, 8.64 ft, May 4, 1982, backwater from ice.

09071750 COLORADO RIVER ABOVE GLENWOOD SPRINGS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°33'38", long 107°17'59", Garfield County, Hydrologic Unit 14010001, 100 yards downstream from No Name Creek and 2.0 mi above Glenwood Springs.

DRAINAGE AREA.--4,556 mi².

PERIOD OF RECORD.--December 1985 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1985 to current year.

WATER TEMPERATURE: December 1985 to current year.

INSTRUMENTATION.--Water-quality monitor since December 1985.

REMARKS.--Discharge obtained by subtracting the flow in Roaring Fork River at Glenwood Springs (station 09085000) from the flow in the Colorado River below Glenwood Springs (station 09085100). Water-quality data collection was moved downstream to this site from previous site 09071100 on Dec. 12, 1985. Water-quality data collected at this site are considered equivalent to data collected at old site. Daily maximum and minimum specific-conductance data available in district office. Daily water temperature records are good. Daily specific-conductance records are fair. Interruptions in record are due to equipment malfunctions..

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,740 microsiemens Aug. 21, 1990; minimum, 199 microsiemens June 17, 1995.

WATER TEMPERATURE: Maximum, 22.5°C July 26, 1987; minimum, 0.0°C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1020 microsiemens, Jan. 23, 24, (may have been higher during periods of missing record); minimum, 199 microsiemens, June 17.

WATER TEMPERATURE: Maximum, 19.2°C Sept. 3; minimum, 0.0°C on many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO
OCT 25...	1300	1230	667	8.5	8.0	10.1	180	54	10	59	2
NOV 30...	1200	850	895	8.3	0.0	12.6	250	74	15	100	3
DEC 28...	1145	800	825	8.4	0.0	11.3	200	61	12	81	2
JAN 31...	1130	860	876	8.5	0.5	10.3	200	60	12	84	3
FEB 27...	1130	920	839	8.4	4.5	11.4	200	60	12	80	2
MAR 20...	1200	1270	680	8.2	8.0	9.7	200	57	13	59	2
APR 25...	1035	1210	587	8.3	9.0	10.3	160	47	9.8	52	2
MAY 25...	1410	4090	320	8.1	9.5	9.1	110	33	6.9	15	0.6
JUN 28...	1110	9070	218	8.1	12.0	8.8	83	25	4.9	8.6	0.4
AUG 03...	1218	3830	320	8.3	15.0	8.2	110	33	5.7	19	0.8
31...	1130	1740	516	8.3	18.0	8.8	160	49	9.0	41	1
SEP 26...	1145	1200	666	8.1	10.5	8.7	190	58	11	53	2

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT 25...	2.5	107	88	88	0.3	7.8	--	374	0.51	1240
NOV 30...	2.9	136	120	160	0.3	9.7	--	563	0.77	1290
DEC 28...	2.7	118	94	120	0.3	10	--	452	0.61	976
JAN 31...	2.8	115	93	130	0.3	10	--	461	0.63	1070
FEB 27...	2.7	115	98	120	0.3	9.3	--	451	0.61	1120
MAR 20...	2.8	109	84	77	0.2	9.8	398	368	0.54	1360
APR 25...	2.3	101	72	79	0.3	7.6	344	331	0.47	1120
MAY 25...	1.4	88	36	19	0.2	9.4	--	174	0.24	1920
JUN 28...	1.1	66	24	9.3	0.2	7.2	117	120	0.16	2870
AUG 03...	1.5	68	44	24	0.3	7.6	189	176	0.26	1950
31...	2.0	92	73	53	0.3	7.7	301	290	0.41	1410
SEP 26...	2.4	109	92	79	0.3	8.8	389	370	0.53	1260

09071750 COLORADO RIVER ABOVE GLENWOOD SPRINGS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
MAR 20...	35	42
APR 25...	39	26
JUN 28...	66	9
AUG 03...	37	10
31...	16	16
SEP 26...	30	17

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	688	800	857	849	864	836	790	554	342	238	304	531
2	688	824	843	852	818	844	785	535	318	244	308	572
3	667	861	853	682	809	853	780	564	297	248	313	584
4	662	850	845	692	823	863	764	582	276	251	327	587
5	667	802	829	720	832	859	757	605	263	254	344	590
6	664	798	816	689	844	865	725	629	250	258	350	587
7	683	792	812	785	836	876	683	587	237	260	359	602
8	678	790	825	808	828	912	647	545	233	264	370	632
9	681	775	873	790	820	930	617	537	232	267	380	603
10	690	771	---	800	821	892	584	548	240	269	385	577
11	692	765	---	816	824	886	598	559	253	271	389	594
12	697	771	---	822	839	852	625	536	256	269	388	601
13	702	770	826	832	882	820	629	492	233	263	386	606
14	709	764	811	845	888	812	624	---	222	239	386	614
15	708	765	810	858	883	805	597	---	215	233	385	608
16	704	808	813	840	918	779	569	---	207	236	394	660
17	703	833	819	857	927	750	592	---	204	240	405	---
18	697	795	808	900	906	711	593	---	207	245	420	---
19	697	807	815	915	893	685	579	---	208	249	435	---
20	689	785	835	883	872	683	577	---	205	254	447	---
21	683	778	866	860	865	708	587	---	---	259	459	---
22	679	772	877	901	855	758	588	---	---	264	462	640
23	679	776	885	976	849	733	600	---	---	269	446	628
24	679	847	867	969	850	735	602	---	---	273	443	631
25	678	914	814	918	847	742	603	---	---	278	444	638
26	675	862	786	894	837	739	602	338	---	282	430	650
27	674	805	809	852	835	763	604	341	---	286	445	655
28	667	844	823	833	841	757	604	347	---	289	449	659
29	669	844	834	847	---	758	598	361	224	293	454	645
30	735	907	831	872	---	760	585	362	233	297	483	623
31	756	---	815	883	---	773	---	356	---	300	507	---
MEAN	688	809	---	840	854	798	636	---	---	263	403	---
MAX	756	914	---	976	927	930	790	---	---	300	507	---
MIN	662	764	---	682	809	683	569	---	---	233	304	---

09071750 COLORADO RIVER ABOVE GLENWOOD SPRINGS, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.4	11.6	5.6	4.7	.2	.0	.0	.0	1.7	.8	5.2	4.3
2	12.1	11.3	5.6	4.7	.3	.0	.0	.0	2.5	1.5	4.5	3.9
3	12.4	11.4	5.8	5.2	.4	.0	.0	.0	2.3	.7	6.0	4.4
4	12.8	11.8	5.8	4.6	.9	.3	.0	.0	1.8	.5	6.7	5.2
5	12.9	11.2	5.2	4.5	1.3	.6	.0	.0	2.0	.8	5.9	4.4
6	11.2	9.7	5.1	4.4	1.5	1.0	.0	.0	2.3	1.1	5.9	4.0
7	10.4	9.6	5.7	4.8	1.7	.9	.0	.0	2.5	1.3	4.5	2.8
8	10.4	9.0	6.6	5.7	.9	.0	.0	.0	2.5	1.4	4.5	2.9
9	10.6	9.2	6.0	5.1	.0	.0	.5	.0	2.0	1.5	5.3	3.4
10	10.8	9.3	5.5	4.4	.0	.0	.4	.0	2.6	1.6	6.4	4.7
11	10.9	9.5	4.9	4.2	.0	.0	.6	.3	2.3	.7	7.1	6.0
12	10.8	9.5	5.2	4.3	.0	.0	.5	.0	.9	.0	7.3	6.4
13	10.7	9.4	4.9	3.8	.0	.0	.7	.2	1.6	.0	7.7	6.3
14	10.7	9.4	3.8	2.0	.0	.0	1.0	.6	3.0	1.5	7.7	6.2
15	10.4	9.5	2.2	.9	.0	.0	1.2	.5	1.8	.1	8.6	7.0
16	10.0	8.6	1.4	.9	.0	.0	1.1	.3	1.5	.1	9.7	7.5
17	9.2	7.1	1.2	.6	.0	.0	.7	.0	1.8	.3	9.5	8.3
18	7.1	6.6	1.5	.8	.0	.0	.4	.0	2.3	.9	9.2	7.8
19	8.0	6.7	1.8	1.0	.0	.0	.6	.0	2.9	1.4	9.2	7.7
20	8.4	7.2	2.0	1.3	.0	.0	.3	.0	3.2	1.6	8.1	6.5
21	7.7	6.7	1.4	1.2	.0	.0	.4	.0	3.4	1.9	7.3	6.9
22	8.1	6.9	1.8	.9	.0	.0	.0	.0	3.7	2.0	7.7	6.6
23	8.2	7.1	.9	.0	.0	.0	.0	.0	3.8	2.2	7.6	6.6
24	8.1	6.8	.4	.0	.0	.0	.0	.0	4.0	2.5	7.8	6.3
25	7.7	6.4	.6	.0	.1	.0	.1	.0	4.3	2.9	6.7	4.9
26	7.5	6.1	.9	.2	.2	.0	.4	.1	5.5	3.5	5.0	3.8
27	7.8	6.6	.3	.0	.2	.0	.9	.4	5.1	4.1	5.5	4.1
28	7.6	6.5	.0	.0	.1	.0	1.0	.3	5.7	4.2	5.6	4.5
29	7.7	6.8	.0	.0	.3	.0	1.1	.0	---	---	5.0	4.2
30	8.3	7.1	.3	.0	.6	.1	.8	.0	---	---	5.4	3.7
31	7.3	4.9	---	---	.4	.0	.8	.0	---	---	5.9	4.6
MONTH	12.9	4.9	6.6	.0	1.7	.0	1.2	.0	5.7	.0	9.7	2.8
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.2	5.0	10.0	9.2	11.9	9.6	10.5	9.5	15.9	14.5	18.2	17.1
2	8.3	6.3	10.1	8.6	11.9	11.0	11.0	9.1	15.8	14.6	18.7	17.4
3	9.3	7.2	9.8	8.8	11.4	10.0	10.8	9.9	15.8	14.7	19.2	17.5
4	10.4	8.0	10.4	9.4	11.5	10.3	10.4	8.8	16.4	15.4	18.7	17.4
5	10.9	8.8	11.1	10.0	11.5	9.8	12.1	9.3	16.3	15.0	18.6	17.2
6	11.2	9.4	10.3	9.5	11.4	10.4	13.6	11.1	16.3	14.9	18.2	16.9
7	10.7	9.5	10.4	9.6	10.8	9.9	14.0	11.9	16.8	15.4	17.3	16.1
8	11.0	9.4	9.8	8.9	10.1	9.3	14.0	12.2	17.1	16.0	17.4	16.2
9	9.5	7.1	10.1	9.1	9.8	8.8	14.0	12.2	17.6	16.1	17.3	16.0
10	7.1	5.3	11.4	9.9	10.1	8.3	14.2	12.1	17.6	16.4	17.0	15.7
11	5.8	4.9	12.0	11.2	11.4	8.8	14.5	12.6	17.6	16.2	16.4	14.9
12	8.1	5.7	12.0	10.0	12.2	10.4	14.6	13.0	17.8	16.5	15.9	14.0
13	9.8	8.0	10.4	9.2	12.1	11.1	14.5	13.5	18.4	16.9	15.9	14.5
14	9.9	8.2	12.0	9.9	11.9	10.6	14.1	12.9	18.4	16.4	16.0	14.9
15	9.0	6.8	13.4	11.6	11.8	10.7	13.7	11.5	16.7	15.4	16.4	14.6
16	8.8	6.3	13.5	12.4	11.0	10.0	14.7	12.5	16.8	15.7	16.9	14.7
17	9.3	7.7	12.9	10.8	10.7	9.4	14.6	13.1	17.9	16.0	17.3	14.5
18	9.6	7.6	10.8	9.0	10.4	8.6	14.4	13.2	17.7	16.5	16.2	14.5
19	9.7	8.3	11.6	9.9	11.3	9.7	14.4	12.7	17.7	16.6	15.9	14.3
20	8.5	7.4	11.9	10.4	11.8	10.2	14.3	13.0	16.8	16.0	16.2	13.8
21	9.2	7.8	11.7	9.4	---	---	13.6	12.1	17.6	16.5	14.3	11.7
22	9.1	7.4	12.3	10.4	---	---	14.0	12.0	18.4	17.5	12.8	10.2
23	9.2	8.1	12.1	10.3	---	---	13.9	12.3	18.6	18.0	11.5	9.6
24	8.9	7.6	10.8	9.3	---	---	14.2	12.2	18.3	17.7	11.1	9.3
25	9.1	8.2	10.6	9.4	---	---	15.0	12.7	17.9	16.8	10.5	8.5
26	10.3	8.8	10.3	8.6	---	---	15.4	13.4	17.8	16.5	10.6	9.4
27	10.5	9.4	10.3	9.1	---	---	15.5	13.5	18.5	17.6	12.1	10.3
28	10.9	10.3	9.8	8.4	---	---	15.9	13.9	18.4	17.1	12.0	10.8
29	11.1	9.6	10.2	8.9	11.6	10.3	16.3	14.7	18.4	17.5	11.5	10.4
30	10.3	9.6	10.5	9.5	10.9	10.1	16.3	15.0	18.9	17.1	10.6	9.9
31	---	---	11.1	9.5	---	---	15.9	14.6	17.9	17.0	---	---
MONTH	11.2	4.9	13.5	8.4	---	---	16.3	8.8	18.9	14.5	19.2	8.5

09073300 ROARING FORK RIVER ABOVE DIFFICULT CREEK NEAR ASPEN, CO

LOCATION.--Lat 39°08'28", long 106°46'25", Pitkin County, Hydrologic Unit 14010004, on left bank in the White River National Forest at Difficult Creek Campground, 0.45 mi upstream from Difficult Creek tributary and 4.25 mi southeast of Aspen.

DRAINAGE AREA.--75.8 mi².

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 8,120 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 31 to Mar. 22, Apr. 11 to May 24, June 17-23, and June 28. Records fair 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 (32,230 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	12	12	9	12	13	14	24	68	1140	494	50
2	26	13	13	10	12	12	14	26	88	1030	364	48
3	25	14	13	11	12	12	14	28	111	889	355	46
4	17	13	12	11	12	11	15	29	124	644	368	45
5	18	13	11	12	12	12	17	30	156	472	407	43
6	18	13	11	12	11	14	17	32	200	515	362	42
7	18	14	10	12	11	17	18	34	183	689	290	44
8	18	14	10	12	11	16	21	32	169	1090	239	47
9	18	13	9.5	11	11	15	22	32	165	1450	89	43
10	17	13	9.5	11	10	15	20	35	137	1500	78	41
11	17	12	10	11	10	11	22	37	154	1630	74	40
12	16	12	11	11	10	12	24	40	217	1680	74	39
13	15	11	11	10	10	15	25	40	292	1350	82	38
14	15	11	12	10	11	16	19	44	385	1190	74	37
15	15	10	12	9.5	11	17	17	47	457	1010	67	35
16	15	11	11	9.5	12	18	15	60	670	933	65	34
17	15	11	11	9.0	12	18	13	78	980	850	61	34
18	15	12	11	9.0	13	17	14	65	1100	680	60	35
19	15	13	11	9.0	13	18	20	80	610	680	63	33
20	14	14	12	9.5	13	19	19	86	660	921	63	32
21	12	14	12	10	14	20	19	88	710	796	66	31
22	12	14	11	10	14	19	18	90	750	618	79	30
23	12	13	11	11	14	18	18	98	700	579	119	30
24	12	13	11	11	15	19	17	108	892	580	72	29
25	12	13	11	12	15	17	17	102	1220	661	69	29
26	12	13	10	12	14	17	17	83	1450	667	70	28
27	12	12	10	11	13	20	17	78	1390	577	70	28
28	13	12	10	10	13	16	18	69	1470	509	62	30
29	14	12	11	10	---	15	20	63	1520	563	59	37
30	14	11	10	11	---	15	22	61	1320	569	55	35
31	13	---	8	12	---	16	---	59	---	570	53	---
TOTAL	491	376	338.0	328.5	341	490	543	1778	18348	27032	4503	1113
MEAN	15.8	12.5	10.9	10.6	12.2	15.8	18.1	57.4	612	872	145	37.1
MAX	26	14	13	12	15	20	25	108	1520	1680	494	50
MIN	12	10	8.0	9.0	10	11	13	24	68	472	53	28
AC-FT	974	746	670	652	676	972	1080	3530	36390	53620	8930	2210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1995, BY WATER YEAR (WY)

	MEAN	28.5	20.8	17.0	15.0	14.3	15.2	30.1	145	387	194	63.5	38.5
MAX	53.3	43.3	31.0	24.4	20.6	22.6	53.8	512	939	872	145	83.7	
(WY)	1987	1985	1985	1985	1985	1986	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1980 - 1995

ANNUAL TOTAL	13857.5	55681.5	
ANNUAL MEAN	38.0	153	
HIGHEST ANNUAL MEAN			a 132
LOWEST ANNUAL MEAN			194
HIGHEST DAILY MEAN	236	1680	1930
LOWEST DAILY MEAN	8.0	8.0	8.0
ANNUAL SEVEN-DAY MINIMUM	10	9.4	9.2
INSTANTANEOUS PEAK FLOW		2130	c 2350
INSTANTANEOUS PEAK STAGE		4.70	5.10
ANNUAL RUNOFF (AC-FT)	27490	110400	a 95,630
10 PERCENT EXCEEDS	113	613	174
50 PERCENT EXCEEDS	17	18	26
90 PERCENT EXCEEDS	11	11	13

a-Includes Twin Lakes Tunnel.

b-Also occurred Jan 11, 1980.

c-From rating curve extended above 910 ft³/s.

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 mi².

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.--Estimated daily discharges: Nov. 24 to Feb. 20. 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, (32,230 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	34	26	18	21	27	29	45	146	1240	513	90
2	55	33	25	22	21	27	31	50	184	1220	397	87
3	51	32	25	24	21	27	31	52	233	1120	373	84
4	40	29	24	25	21	28	33	49	266	1010	390	80
5	38	28	24	26	21	27	36	53	308	848	439	78
6	39	31	23	25	20	27	37	53	400	876	415	76
7	41	30	22	25	21	30	38	54	380	996	327	80
8	40	30	20	24	21	28	42	52	354	1260	294	92
9	37	29	19	24	21	27	46	49	338	1630	157	85
10	36	29	18	23	20	28	40	51	282	1900	141	78
11	36	30	21	23	20	30	35	59	294	1830	133	74
12	34	32	24	23	17	32	38	62	417	1870	130	71
13	33	31	25	23	20	30	41	58	561	1780	134	67
14	32	25	26	23	21	30	45	57	678	1500	128	66
15	33	21	26	22	22	31	42	83	859	1270	119	63
16	32	27	25	20	23	33	40	116	1020	1210	109	63
17	31	29	25	21	24	35	40	130	1310	1150	102	61
18	32	27	24	23	25	34	38	116	1430	888	97	64
19	32	28	23	24	26	37	41	110	789	810	103	65
20	31	29	23	24	27	33	39	126	831	1060	106	64
21	33	29	24	23	27	35	37	131	950	966	108	64
22	32	29	25	21	27	36	37	160	988	733	112	62
23	33	26	25	22	27	34	37	188	921	672	143	61
24	32	24	25	24	29	37	36	183	1050	629	114	61
25	32	23	24	23	29	28	36	191	1240	684	106	60
26	31	24	23	22	28	36	39	162	1570	710	101	60
27	30	23	22	21	27	32	39	159	1600	628	100	59
28	32	23	23	20	27	32	42	137	1660	543	96	61
29	31	23	24	21	---	32	44	126	1640	569	102	72
30	33	26	20	22	---	31	47	123	1470	590	97	74
31	28	---	15	22	---	29	---	121	---	575	94	---
TOTAL	1106	834	718	703	654	963	1156	3106	24169	32767	5780	2122
MEAN	35.7	27.8	23.2	22.7	23.4	31.1	38.5	100	806	1057	186	70.7
MAX	56	34	26	26	29	37	47	191	1660	1900	513	92
MIN	28	21	15	18	17	27	29	45	146	543	94	59
AC-FT	2190	1650	1420	1390	1300	1910	2290	6160	47940	64990	11460	4210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1995, BY WATER YEAR (WY)

	MEAN	42.8	34.2	29.4	26.4	25.1	26.9	48.2	195	414	207	68.9	49.8
MAX	80.0	61.6	47.5	37.0	35.9	41.7	79.7	554	1017	1057	186	87.1	
(WY)	1966	1985	1987	1985	1989	1986	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 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1965 - 1995

ANNUAL TOTAL	25198	74078		
ANNUAL MEAN	69.0	203	a152	
HIGHEST ANNUAL MEAN			229	1984
LOWEST ANNUAL MEAN			42.1	1977
HIGHEST DAILY MEAN	439	Jun 1	1900	Jul 10 1995
LOWEST DAILY MEAN	15	Dec 31	15	Dec 31 1976
ANNUAL SEVEN-DAY MINIMUM	20	Jan 28	20	Feb 6 1977
INSTANTANEOUS PEAK FLOW			2230	Jul 11 1995
INSTANTANEOUS PEAK STAGE			5.97	Jul 11 1995
ANNUAL RUNOFF (AC-FT)	49980	146900	a110100	
10 PERCENT EXCEEDS	198	797	249	
50 PERCENT EXCEEDS	33	37	39	
90 PERCENT EXCEEDS	23	22	22	

a-Includes 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 mi².

PERIOD OF RECORD.--June 1950 to September 1956, September 1969 to current year. Statistical summary computed for 1980 to current year.

GAGE.--Water-stage recorder. 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.--Estimated daily discharges: Oct. 29 to Mar. 7, and July 12 to Aug. 29. Records good except those 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 from and downstream from station. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	6.8	4.9	3.6	5.0	5.5	4.5	11	60	256	130	27
2	18	6.4	4.8	4.3	4.9	5.4	4.8	15	67	225	120	25
3	17	6.2	4.8	4.5	4.9	5.3	4.7	14	87	171	130	23
4	14	6.0	4.9	4.4	5.0	5.1	5.2	16	88	110	140	21
5	12	6.0	5.0	4.5	5.2	4.9	9.1	19	100	94	130	20
6	13	5.9	4.9	4.4	5.2	4.6	9.4	21	130	105	120	23
7	16	6.0	4.7	4.4	5.1	4.3	10	20	122	202	100	34
8	17	5.9	4.5	4.3	5.1	4.0	9.9	18	105	333	91	40
9	15	5.9	4.3	4.2	5.2	4.0	9.5	18	104	457	83	30
10	15	5.8	4.1	4.1	5.3	4.3	9.1	22	88	470	74	27
11	15	5.9	4.5	4.0	5.2	4.4	11	25	87	560	65	24
12	14	6.3	4.9	4.1	5.2	4.6	14	21	126	540	63	20
13	15	6.6	4.9	4.1	5.2	4.0	13	21	215	500	61	19
14	13	6.3	4.8	4.0	5.3	5.2	11	33	323	440	58	18
15	13	5.9	4.7	4.0	4.8	5.4	12	51	425	350	56	17
16	13	6.2	4.8	3.9	5.4	6.7	12	56	516	320	52	15
17	12	6.4	4.7	3.7	5.7	7.4	12	56	677	290	55	17
18	9.9	6.1	4.6	4.2	5.5	7.5	11	54	513	250	56	19
19	11	6.0	4.4	4.2	5.3	7.4	11	60	323	280	58	15
20	10	5.8	4.3	4.3	5.2	6.0	10	65	390	300	62	15
21	8.9	5.5	4.2	4.2	5.1	5.5	9.0	71	428	270	66	13
22	8.9	5.1	4.3	4.0	5.2	5.8	8.4	86	404	240	71	12
23	7.9	4.8	4.6	4.2	5.2	6.1	8.2	93	342	210	68	13
24	8.4	4.6	4.8	4.7	5.3	6.1	7.8	89	268	180	62	12
25	8.1	5.3	4.6	4.8	5.4	5.3	8.2	79	250	200	58	13
26	8.3	5.1	4.4	4.8	5.5	5.3	8.9	72	250	190	55	13
27	7.9	5.0	4.2	4.8	5.7	5.0	9.5	71	346	180	54	13
28	6.9	5.0	4.3	4.6	5.6	6.4	12	59	298	170	52	23
29	6.6	4.9	4.5	4.1	---	5.1	13	54	201	180	47	31
30	7.0	5.1	4.7	4.7	---	4.8	13	49	211	170	40	24
31	5.4	---	4.0	5.1	---	4.3	---	49	---	150	30	---
TOTAL	358.2	172.8	142.1	133.2	146.7	165.7	291.2	1388	7544	8393	2307	616
MEAN	11.6	5.76	4.58	4.30	5.24	5.35	9.71	44.8	251	271	74.4	20.5
MAX	18	6.8	5.0	5.1	5.7	7.5	14	93	677	560	140	40
MIN	5.4	4.6	4.0	3.6	4.8	4.0	4.5	11	60	94	30	12
AC-FT	710	343	282	264	291	329	578	2750	14960	16650	4580	1220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1995, BY WATER YEAR (WY)

	MEAN	15.7	10.5	7.12	6.00	5.57	6.32	19.3	110	202	82.3	32.2	18.9
MAX	32.7	25.1	14.4	11.3	9.21	9.86	40.8	195	296	271	74.4	39.8	
(WY)	1985	1985	1985	1987	1985	1989	1989	1987	1984	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 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1980 - 1995

ANNUAL TOTAL	9642.0	21657.9	
ANNUAL MEAN	26.4	59.3	a 43.1
HIGHEST ANNUAL MEAN			69.3
LOWEST ANNUAL MEAN			27.2
HIGHEST DAILY MEAN	317	Jun 1	677 Jun 17
LOWEST DAILY MEAN	3.9	Feb 1	3.6 Jan 1
ANNUAL SEVEN-DAY MINIMUM	4.4	Dec 25	4.0 Jan 11
INSTANTANEOUS PEAK FLOW			1080 Jun 17
INSTANTANEOUS PEAK STAGE			3.29 Jun 17
ANNUAL RUNOFF (AC-FT)	19120	42960	31240
10 PERCENT EXCEEDS	84	201	114
50 PERCENT EXCEEDS	7.5	11	12
90 PERCENT EXCEEDS	4.8	4.4	4.8

a-Average discharge for 16 years (water years 1951-1956, 1970-1979), 50.7 ft³/s; 36730 acre-ft/yr, prior to diversion through Charles H. Boustead tunnel.

b-Also occurred Dec 21-22, 1980.

c-From rating curve extended above 300 ft³/s.

d-Maximum gage height for period of record, 4.30 ft, Nov 30, 1984, backwater from ice.

09078600 FRYINGPAN RIVER NEAR THOMASVILLE, CO

LOCATION.--Lat 39°20'41", long 106°40'23", in NW¹/4NW¹/4 sec.21, T.8 S., R.83 W., Pitkin County, Hydrologic Unit 14010004, on right bank 400 ft upstream from private bridge, 400 ft downstream from North Fork, 1.6 mi southeast of Thomasville, and 1.7 mi northwest of Norrie.

DRAINAGE AREA.--134 mi².

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,210 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Jan. 20-29, and Aug. 4-14. Records good. 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.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	32	24	20	21	24	30	78	337	579	271	87
2	42	31	23	21	20	24	31	95	367	517	248	74
3	38	30	23	20	20	24	32	104	409	550	243	74
4	34	27	23	19	19	24	37	97	417	480	241	72
5	33	25	24	20	20	23	46	118	500	403	239	69
6	41	31	24	21	19	23	58	134	535	393	235	72
7	41	31	24	21	19	27	74	131	505	450	231	78
8	42	30	24	21	19	24	86	131	472	524	225	99
9	40	27	23	20	20	24	88	111	455	687	221	69
10	40	27	26	21	20	24	69	109	373	798	215	65
11	37	29	31	20	20	27	57	151	380	765	213	72
12	36	32	41	21	20	28	57	164	456	711	207	62
13	36	28	39	21	19	26	66	150	554	630	198	64
14	34	20	36	21	18	26	77	160	699	545	190	70
15	36	20	29	21	19	30	64	266	882	417	188	68
16	36	27	26	21	19	35	61	334	962	422	111	69
17	33	30	24	21	21	40	66	334	1100	392	102	67
18	35	29	22	21	25	41	63	294	1030	424	100	75
19	35	29	23	21	28	43	63	303	729	594	94	85
20	30	28	27	21	29	41	60	323	769	633	95	74
21	33	27	29	21	28	39	57	324	833	585	106	78
22	31	26	28	21	26	39	51	342	831	542	122	70
23	31	26	28	21	26	40	51	351	723	502	115	66
24	30	30	26	22	25	40	50	334	618	479	133	64
25	30	31	24	22	25	35	51	314	536	473	138	62
26	29	31	23	22	25	36	57	280	557	474	117	61
27	29	29	22	22	24	34	60	285	613	458	98	58
28	29	31	22	22	24	33	71	256	676	414	90	64
29	28	28	22	22	---	31	77	253	627	367	83	104
30	31	26	22	22	---	30	79	260	522	351	84	111
31	23	---	21	22	---	29	---	278	---	335	91	---
TOTAL	1061	848	803	652	618	964	1789	6864	18467	15894	5044	2203
MEAN	34.2	28.3	25.9	21.0	22.1	31.1	59.6	221	616	513	163	73.4
MAX	42	32	41	22	29	43	88	351	1100	798	271	111
MIN	23	20	21	19	18	23	30	78	337	335	83	58
AC-FT	2100	1680	1590	1290	1230	1910	3550	13610	36630	31530	10000	4370

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1995, BY WATER YEAR (WY)

	MEAN	44.1	33.7	26.2	21.7	21.2	26.8	84.3	290	415	176	78.0	54.5
MAX	77.8	53.9	45.1	34.5	29.6	54.9	131	531	647	513	163	103	
(WY)	1987	1985	1985	1985	1984	1986	1985	1984	1978	1995	1995	1986	
MIN	26.3	19.8	13.7	12.0	13.6	13.3	38.4	160	187	71.0	40.6	31.2	
(WY)	1990	1977	1977	1977	1977	1977	1983	1977	1977	1977	1977	1977	

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1976 - 1995
ANNUAL TOTAL	28699	55207	
ANNUAL MEAN	78.6	151	106
HIGHEST ANNUAL MEAN			164
LOWEST ANNUAL MEAN			54.6
HIGHEST DAILY MEAN	470	1100	1200
LOWEST DAILY MEAN	18	18	10
ANNUAL SEVEN-DAY MINIMUM	20	19	11
INSTANTANEOUS PEAK FLOW		1570	1570
INSTANTANEOUS PEAK STAGE		4.58	4.58
ANNUAL RUNOFF (AC-FT)	56920	109500	76890
10 PERCENT EXCEEDS	233	488	284
50 PERCENT EXCEEDS	33	41	43
90 PERCENT EXCEEDS	21	21	20

a-Also occurred Jan 2, 1979.

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 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 7766.00 ft above sea level, (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations above sea level.

REMARKS.--Reservoir is formed by an earthfill dam. Storage began in May 1968; dam completed July 16, 1968. Capacity, 102,300 acre-ft, 1969 survey, between elevations 7,540.00 ft, sill of auxiliary outlet and 7,766.00 ft, crest of spillway. Dead storage below elevation 7,540.00 ft, 61 acre-ft. Figures given are total contents.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 103,930 acre-ft, July 14, 1995, elevation, 7,767.55 ft; minimum after first filling, 48,000 acre-ft, May 13, 1971, elevation, 7,698.03 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 103,930 acre-ft, July 14, elevation, 7,767.55 ft; minimum contents, 62,020 acre-ft, April 5-6, elevation, 7,718.86 ft.

MONTHEND ELEVATION IN FEET ABOVE SEA LEVEL AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	7,740.02	78,530	-
Oct. 31.	7,733.36	73,050	-5,480
Nov. 30.	7,729.94	70,340	-2,710
Dec. 31.	7,726.15	67,420	-2,920
CAL YR 1994.			-19,830
Jan. 31.	7,723.15	65,170	-2,250
Feb. 28.	7,720.70	63,360	-1,810
Mar. 31.	7,719.12	62,210	-1,150
Apr. 30.	7,719.74	62,660	+450
May 31.	7,728.02	68,850	+6,190
June 30.	7,761.03	97,490	+28,640
July 31.	7,766.00	102,370	+4,880
Aug. 31.	7,765.00	101,380	-990
Sept. 30.	7,763.21	99,610	-1,770
WTR YR 1995.			+21,080

09080400 FRYINGPAN RIVER NEAR RUEDI, CO

LOCATION.--Lat 39°21'56", long 106°49'30", in SE¹/4SE¹/4 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 mi².

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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	206	96	94	73	73	73	71	104	406	869	378	136
2	206	96	94	73	73	73	71	105	432	904	347	155
3	206	96	94	73	73	73	71	105	493	894	284	155
4	206	96	94	73	73	73	71	105	515	899	290	155
5	208	97	94	73	73	73	71	105	519	847	295	153
6	204	98	94	73	73	73	72	105	535	794	288	153
7	206	98	94	73	73	72	73	105	542	757	288	153
8	206	98	94	73	73	71	73	105	536	764	288	153
9	206	98	94	73	73	71	74	105	531	764	252	153
10	206	98	94	73	73	71	74	119	531	831	230	153
11	203	98	94	73	73	71	74	181	528	1000	230	153
12	184	98	94	73	73	69	74	202	534	1000	230	153
13	176	97	94	73	73	70	74	246	549	1020	230	153
14	144	96	94	73	73	70	74	246	565	1040	230	153
15	144	84	94	73	73	72	73	243	589	994	230	153
16	144	81	94	72	73	73	73	245	605	947	230	153
17	144	94	94	71	73	73	74	254	618	900	230	151
18	144	94	94	71	73	73	74	256	622	853	230	151
19	144	94	94	71	73	73	74	256	624	839	230	151
20	144	94	94	70	73	73	74	255	583	852	230	151
21	128	94	94	70	73	73	75	256	655	853	227	151
22	98	94	86	72	73	74	90	257	735	847	228	151
23	98	94	72	73	73	74	100	260	876	829	230	153
24	98	94	73	73	73	74	100	260	942	808	230	153
25	98	94	73	73	73	74	101	260	928	748	230	153
26	98	94	73	73	73	74	102	255	844	659	230	153
27	98	94	73	73	73	74	102	253	726	656	230	153
28	98	94	73	73	73	74	102	269	721	560	230	153
29	98	94	73	73	---	72	104	383	778	509	187	161
30	98	94	73	73	---	71	104	409	831	508	133	184
31	97	---	73	73	---	71	---	406	---	424	119	---
TOTAL	4738	2841	2716	2249	2044	2245	2439	6715	18893	25169	7514	4606
MEAN	153	94.7	87.6	72.5	73.0	72.4	81.3	217	630	812	242	154
MAX	208	98	94	73	73	74	104	409	942	1040	378	184
MIN	97	81	72	70	73	69	71	104	406	424	119	136
AC-FT	9400	5640	5390	4460	4050	4450	4840	13320	37470	49920	14900	9140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1995, BY WATER YEAR (WY)

	MEAN	142	126	136	131	133	141	159	270	375	281	157	137
MAX	366	185	198	195	209	234	370	669	950	812	242	240	
(WY)	1970	1985	1986	1986	1986	1986	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 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1969 - 1995
ANNUAL TOTAL	57853	82169	
ANNUAL MEAN	159	225	a182
HIGHEST ANNUAL MEAN			288
LOWEST ANNUAL MEAN			83.9
HIGHEST DAILY MEAN	b275	Sep 2	1390
LOWEST DAILY MEAN	72	Dec 23	c29
ANNUAL SEVEN-DAY MINIMUM	73	Dec 23	29
INSTANTANEOUS PEAK FLOW		1110	d1400
INSTANTANEOUS PEAK STAGE		3.56	e3.50
ANNUAL RUNOFF (AC-FT)	114800	163000	132100
10 PERCENT EXCEEDS	214	655	300
50 PERCENT EXCEEDS	150	98	152
90 PERCENT EXCEEDS	94	73	80

a-Subsequent to completion of Ruedi Reservoir.

b-Also occurred Sep 3-6.

c-Minimum daily discharge for period of record, 16 ft³/s, Feb 2, 1968 (result of storage in Ruedi Reservoir); minimum daily discharge prior to construction of Ruedi Reservoir, 28 ft³/s, Mar 4, 1966.

d-Maximum discharge and stage for period of record, 2690 ft³/s, Jun 18, 1965, gage height 5.16 ft, site and datum then in use.

e-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 SE¹/4SW¹/4 sec.33, T.9 S., R.88 W., Pitkin County, Hydrologic Unit 14010004, on right bank 1.2 mi upstream from Avalanche Creek and 3.6 mi north of Redstone.

DRAINAGE AREA.--167 mi².

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. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	85	65	34	54	74	86	213	764	1780	1090	314
2	121	83	64	40	54	72	88	260	969	1850	984	305
3	108	85	64	56	53	75	89	282	1100	1750	931	300
4	101	85	64	52	52	74	99	254	1210	1540	937	282
5	97	83	64	57	55	70	121	292	1330	1280	923	270
6	119	84	68	57	55	70	147	298	1560	1360	865	272
7	112	84	65	56	56	60	172	278	1440	1680	836	283
8	106	86	62	55	56	61	196	264	1310	2020	877	320
9	104	86	43	57	58	63	197	248	1140	2280	856	275
10	106	85	38	53	58	70	170	257	964	2400	781	246
11	105	85	53	52	58	83	151	317	1040	2390	848	224
12	102	92	53	52	56	100	147	458	1380	2570	824	205
13	101	91	64	53	56	86	180	390	1840	2380	757	194
14	96	84	64	52	58	85	196	371	2230	2200	665	185
15	96	75	58	51	42	96	180	529	2660	1870	559	180
16	96	83	61	51	49	112	171	723	2980	1810	528	174
17	94	87	61	52	56	127	172	783	2970	1730	486	166
18	93	86	59	42	64	128	164	678	2430	1570	507	182
19	93	85	60	47	63	145	166	687	2000	1560	496	170
20	90	82	53	42	63	132	162	790	1960	1610	489	156
21	89	75	53	43	64	131	155	868	2190	1430	476	151
22	89	68	53	39	69	138	148	1070	2220	1330	466	142
23	89	57	57	36	72	127	144	1130	2100	1260	469	137
24	89	65	62	44	77	128	137	1010	1970	1180	467	136
25	89	69	59	55	78	116	137	933	1870	1210	439	131
26	89	66	56	55	77	109	147	796	1890	1240	411	126
27	89	62	51	53	74	101	153	750	2080	1220	421	121
28	87	61	51	51	74	99	166	646	2150	1180	406	136
29	85	58	56	50	---	95	187	603	1970	1190	371	235
30	86	68	58	41	---	90	213	609	1820	1160	357	187
31	82	---	53	54	---	86	---	614	---	1180	329	---
TOTAL	3033	2345	1792	1532	1701	3003	4641	17401	53537	51210	19851	6205
MEAN	97.8	78.2	57.8	49.4	60.7	96.9	155	561	1785	1652	640	207
MAX	130	92	68	57	78	145	213	1130	2980	2570	1090	320
MIN	82	57	38	34	42	60	86	213	764	1160	329	121
AC-FT	6020	4650	3550	3040	3370	5960	9210	34510	106200	101600	39370	12310

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1995, BY WATER YEAR (WY)

	MEAN	71.2	55.8	49.1	48.6	65.0	193	756	1296	648	202	125
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1956 - 1995

ANNUAL TOTAL	92584	166251	
ANNUAL MEAN	254	455	301
HIGHEST ANNUAL MEAN			468
LOWEST ANNUAL MEAN			107
HIGHEST DAILY MEAN	1690	Jun 4	2980
LOWEST DAILY MEAN	38	Dec 10	34
ANNUAL SEVEN-DAY MINIMUM	49	Jan 28	42
INSTANTANEOUS PEAK FLOW			3430
INSTANTANEOUS PEAK STAGE			5.46
ANNUAL RUNOFF (AC-FT)	183600	329800	218100
10 PERCENT EXCEEDS	985	1550	956
50 PERCENT EXCEEDS	89	128	93
90 PERCENT EXCEEDS	54	54	43

a-Also occurred Feb 15, 1964, Jan 2 and Feb 17-18, 1978.

09085000 ROARING FORK RIVER AT GLENWOOD SPRINGS, CO

LOCATION.--Lat 39°32'37", long 107°19'44", in SW¹/4SE¹/4 sec.9, T.6 S., R.89 W., Garfield County, Hydrologic Unit 14010004, on left bank at Glenwood Springs, 2,100 ft upstream from mouth.

DRAINAGE AREA.--1,451 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1905 to September 1909, September 1910 to current year. Monthly discharge only for some periods, published in WSP 1313. Prior to October 1960, published as Roaring Fork at Glenwood Springs. Statistical summary computed for 1972 to current year.

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,720.73 ft above sea level. Prior to Nov. 20, 1915, nonrecording gage on highway bridge 800 ft downstream, at different datum. Nov. 20, 1915, to Oct. 26, 1917, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Records good. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	627	572	569	429	398	472	449	859	2840	7980	4580	1500
2	696	599	555	379	393	452	453	920	3320	8220	4130	1470
3	655	615	546	432	397	425	456	1040	3860	7990	3730	1430
4	646	621	569	500	389	458	479	955	4160	7670	3620	1420
5	633	607	558	481	396	437	537	986	4470	6430	3660	1360
6	702	601	574	472	398	455	623	1080	5220	6100	3540	1320
7	702	605	565	452	394	388	692	1040	5150	6680	3330	1290
8	698	617	554	444	390	392	763	1020	4870	7730	3290	1360
9	707	624	526	438	393	419	838	972	4520	8860	3260	1380
10	712	596	465	430	392	427	740	926	3930	10200	2950	1270
11	706	594	468	437	396	446	655	1070	3860	11000	3000	1230
12	671	595	497	437	424	529	599	1480	4570	11800	3060	1190
13	659	639	512	423	382	492	638	1520	5650	11500	2910	1160
14	640	584	563	419	432	459	736	1380	6710	10500	2750	1120
15	639	523	517	419	386	473	703	1690	7960	9180	2500	1080
16	639	564	505	425	349	513	673	2230	9010	8380	2300	1060
17	643	631	505	405	382	565	673	2610	9310	7970	2200	1030
18	645	607	480	382	407	565	667	2370	10200	7490	2180	1030
19	638	611	481	380	406	633	682	2300	7820	7120	2110	1040
20	632	600	466	377	409	617	682	2550	7710	7460	2130	1030
21	631	594	475	382	407	581	656	2710	8070	7050	2100	1010
22	605	589	476	379	413	657	614	3120	8330	6400	2150	996
23	580	535	487	367	417	586	625	3530	8090	5960	2150	996
24	575	535	486	400	423	596	618	3250	7880	5600	2170	971
25	578	587	488	460	432	552	601	3100	7760	5560	2140	966
26	570	600	478	437	437	531	667	2730	7970	5550	2020	928
27	562	562	451	424	436	518	661	2600	8320	5400	1940	922
28	555	553	431	407	447	485	624	2310	8730	5190	1950	907
29	552	538	459	399	---	486	717	2230	8860	5040	1850	1080
30	562	563	470	365	---	480	814	2460	8060	4970	1700	1240
31	578	---	459	386	---	459	---	2450	---	4980	1570	---
TOTAL	19638	17661	15635	12967	11325	15548	19335	59488	197210	231960	82970	34786
MEAN	633	589	504	418	404	502	644	1919	6574	7483	2676	1160
MAX	712	639	574	500	447	657	838	3530	10200	11800	4580	1500
MIN	552	523	431	365	349	388	449	859	2840	4970	1570	907
AC-FT	38950	35030	31010	25720	22460	30840	38350	118000	391200	460100	164600	69000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1995, BY WATER YEAR (WY)

	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	709	663	569	503	474	528	802	2150	4104	2528	993	721												
MAX	1159	969	790	665	689	861	1602	4663	7383	7483	2676	1160												
(WY)	1985	1985	1985	1986	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1972 - 1995

ANNUAL TOTAL	340206	718523	
ANNUAL MEAN	932	1969	a 1231
HIGHEST ANNUAL MEAN			2092
LOWEST ANNUAL MEAN			485
HIGHEST DAILY MEAN	4070	Jun 4	b 11800
LOWEST DAILY MEAN	c 431	Feb 13	d, e 248
ANNUAL SEVEN-DAY MINIMUM	462	Dec 25	f 258
INSTANTANEOUS PEAK FLOW			13000
INSTANTANEOUS PEAK STAGE			8.31
ANNUAL RUNOFF (AC-FT)	674800	1425000	g 8.31
10 PERCENT EXCEEDS	2310	6530	891500
50 PERCENT EXCEEDS	619	645	2980
90 PERCENT EXCEEDS	486	418	660
			427

a-Average discharge for 65 years (water years 1906-09, 1911-71), 1368 ft³/s; 991100 acre-ft/yr, prior to diversion through Charles H. Boustead tunnel.

b-Maximum daily discharge for period of record, 16600 ft³/s, Jun 30, 1957.

c-Also occurred Dec 28.

d-Minimum daily discharge for period of record, 179 ft³/s, Jan 21, 1935; minimum discharge, 145 ft³/s, Jan 21, 1935, gage height, 0.65 ft.

e-Also occurred Aug 12, 1977.

f-Maximum discharge and stage for period of record, 19000 ft³/s, Jul 1, 1957, gage height, 8.65 ft.

g-Maximum gage height for period of record, 8.7 ft, Jun 14, 1921, from floodmarks.

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 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML)	CADMIUM DIS- SOLVED (UG/L AS CD)
OCT 26...	1650	568	636	8.8	9.0	10.1	K5	K2	<1
MAR 21...	0800	590	560	8.1	6.5	10.2	K44	38	<1
MAY 23...	1445	3420	259	7.8	9.0	9.3	110	100	<1
AUG 22...	0920	2130	355	8.1	13.5	8.5	420	460	<1

DATE	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 26...	<1	40	<1	<10	<10	0.1	<1	<0.2	<10
MAR 21...	<1	390	<1	30	10	<0.1	<1	<0.2	<10
MAY 23...	<1	4300	<1	130	30	<0.1	<1	<0.2	<10
AUG 22...	<1	1500	<1	20	10	<0.1	<1	<0.2	<10

K-Based on non-ideal colony count

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 13...	1445	636	638	10.5	JUN 15...	0935	8060	190	7.5
NOV 30...	1425	563	625	2.5	17...	1300	8830	186	7.5
APR 27...	1010	675	522	7.5	21...	1530	7910	197	9.0
					JUL 14...	1030	11200	172	8.0

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 mi².

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,700.75 ft above sea level, Colorado State Highway Department benchmark.

REMARKS.--Estimated daily discharges: Jan. 15 to Mar. 23. Records good except estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power development, and diversions for irrigation of 110,000 acres.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1890	1470	1480	1080	1100	1100	1360	2440	7030	17200	8540	3170
2	2080	1520	1420	1030	1160	1090	1370	2610	8320	17600	7980	3010
3	2070	1480	1380	1080	1120	1080	1400	2660	9560	17000	7580	2940
4	2010	1600	1410	1180	1110	1040	1430	2530	10800	17200	7400	2910
5	1980	1570	1470	1240	1100	1000	1560	2420	11900	15700	7250	2830
6	2080	1560	1490	1260	1120	1000	1720	2630	13500	14700	7080	2820
7	2070	1590	1490	1290	1130	1000	1900	2710	13800	15100	6770	2730
8	2040	1570	1460	1290	1110	1020	2070	2720	13600	15900	6530	2850
9	2040	1560	1250	1280	1100	1080	2190	2660	13300	16900	6320	2970
10	2000	1470	973	1270	1100	1100	2160	2540	12300	18100	5730	2830
11	1990	1590	944	1250	1110	1200	1990	2710	11600	18800	5640	2720
12	1920	1530	1120	1240	1110	1280	1800	3340	12400	20300	5640	2650
13	1880	1610	1210	1140	1110	1120	1820	3640	14500	20700	5440	2580
14	1880	1540	1380	1050	1100	1100	1980	3460	17000	20100	5260	2500
15	1860	1430	1370	1250	1020	1120	2060	3780	19400	19000	4960	2480
16	1870	1410	1270	1200	1020	1200	2080	4850	21200	17700	4640	2370
17	1870	1550	1240	1150	1100	1300	2020	5720	21800	16700	4410	2300
18	1900	1510	1270	1100	1100	1600	1960	5720	22800	15700	4230	2290
19	1860	1460	1280	1070	1100	1750	2030	5580	19700	14900	3990	2350
20	1870	1530	1280	1130	1110	1920	2050	5870	19400	15100	3920	2310
21	1870	1520	1190	1120	1110	1800	1970	6110	19300	14500	3870	2270
22	1840	1460	1150	1070	1140	1820	1890	6520	19300	14000	3990	2300
23	1810	1370	1150	1000	1190	1700	1840	7380	18800	13600	4130	2270
24	1800	1240	1190	1050	1180	1720	1850	7130	17800	12700	4180	2230
25	1810	1350	1290	1100	1110	1680	1810	7000	17000	12100	4260	2220
26	1790	1470	1330	1150	1100	1620	1880	6600	16700	11300	4060	2170
27	1770	1410	1320	1110	1110	1520	1940	6460	17000	10500	3930	2160
28	1800	1360	1230	1100	1100	1520	1910	6010	17400	9800	3930	2110
29	1750	1210	1250	1100	---	1500	2020	5720	17500	9440	3780	2470
30	1600	1350	1290	1000	---	1440	2200	6090	17000	9200	3480	2760
31	1600	---	1300	1020	---	1400	---	6280	---	9060	3290	---
TOTAL	58600	44290	39877	35400	31070	41820	56260	141890	471710	470600	162210	76570
MEAN	1890	1476	1286	1142	1110	1349	1875	4577	15720	15180	5233	2552
MAX	2080	1610	1490	1290	1190	1920	2200	7380	22800	20700	8540	3170
MIN	1600	1210	944	1000	1020	1000	1360	2420	7030	9060	3290	2110
AC-FT	116200	87850	79100	70220	61630	82950	111600	281400	935600	933400	321700	151900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1995, BY WATER YEAR (WY)

	MEAN	2078	1888	1592	1487	1474	1682	2662	6859	10360	5845	2872	2252
MAX	3082	2703	2487	2192	2209	2814	4823	15570	20710	15180	5975	3716	
(WY)	1985	1985	1985	1985	1986	1986	1985	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 1994 CALENDAR YEAR			FOR 1995 WATER YEAR			WATER YEARS 1967 - 1995		
ANNUAL TOTAL	901727			1630297					
ANNUAL MEAN	2470			4467			3426		
HIGHEST ANNUAL MEAN							6276		
LOWEST ANNUAL MEAN							1638		
HIGHEST DAILY MEAN	8810			Jun 2			30200		
LOWEST DAILY MEAN	944			Dec 11			870		
ANNUAL SEVEN-DAY MINIMUM	1180			Dec 9			978		
INSTANTANEOUS PEAK FLOW							31500		
INSTANTANEOUS PEAK STAGE							12.49		
ANNUAL RUNOFF (AC-FT)	1789000			3234000			2482000		
10 PERCENT EXCEEDS	5100			14800			7970		
50 PERCENT EXCEEDS	1870			1900			2070		
90 PERCENT EXCEEDS	1410			1100			1310		

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 mi².

PERIOD OF RECORD.--1911, October 1990 to current year. Published as West Fork Elk Creek near New Castle, 1911.

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

GAGE.--Water-stage recorder. Elevation of gage is 6,760 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1-20, and Nov. 1 to Mar. 31. Records good except for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	.37	.30	.18	.17	.28	.44	.60	5.8	3.2	3.0	3.0
2	.48	.37	.28	.18	.17	.27	.43	.69	5.4	3.3	3.0	3.4
3	.46	.36	.28	.18	.17	.26	.44	.78	5.2	3.1	3.0	3.8
4	.70	.34	.27	.18	.17	.26	.46	.70	5.2	3.6	2.9	4.0
5	.62	.32	.25	.18	.17	.25	.50	.71	6.4	3.2	2.9	3.9
6	.56	.33	.26	.17	.17	.25	.51	.69	6.0	3.0	2.9	4.1
7	.58	.33	.24	.17	.17	.25	.52	.74	5.5	2.9	2.9	4.0
8	.54	.34	.23	.16	.17	.26	.49	1.0	4.7	2.5	2.8	3.8
9	.54	.34	.22	.15	.17	.27	.50	1.0	4.3	2.7	2.7	2.3
10	.54	.33	.23	.14	.17	.29	.48	.96	4.0	2.6	2.7	2.1
11	.56	.34	.22	.14	.17	.31	.46	1.0	3.8	2.6	2.7	1.9
12	.56	.36	.22	.14	.17	.34	.53	1.6	3.7	2.6	2.6	1.8
13	.56	.36	.21	.14	.16	.34	.53	1.4	3.6	2.7	2.6	1.7
14	.54	.32	.19	.14	.16	.34	.55	1.4	3.4	2.7	2.6	1.6
15	.54	.34	.19	.13	.18	.35	.54	1.8	3.4	2.6	2.6	1.6
16	.56	.39	.19	.13	.20	.37	.58	2.5	3.6	2.6	2.6	1.5
17	.58	.43	.19	.13	.22	.39	.63	3.2	3.8	3.0	2.7	1.5
18	.56	.43	.20	.13	.24	.39	.61	3.1	3.9	3.5	2.6	1.7
19	.58	.41	.20	.13	.24	.39	.71	3.1	3.3	3.4	2.6	1.7
20	.62	.40	.19	.14	.24	.40	.68	3.3	3.2	2.9	2.6	1.6
21	.63	.41	.21	.14	.25	.40	.65	3.7	3.2	2.9	2.6	1.5
22	.59	.41	.22	.15	.26	.40	.61	4.0	3.1	3.1	2.6	1.5
23	.52	.40	.22	.16	.27	.38	.57	4.7	3.0	3.0	2.7	1.4
24	.50	.39	.22	.17	.28	.38	.55	4.3	2.9	2.8	2.6	1.4
25	.45	.38	.22	.18	.29	.36	.53	4.3	2.9	2.8	2.8	1.4
26	.45	.36	.22	.18	.28	.36	.60	4.1	2.8	3.1	2.9	1.4
27	.52	.35	.18	.17	.28	.36	.55	3.9	2.8	3.1	2.8	1.3
28	.49	.33	.18	.16	.29	.36	.53	3.8	2.9	3.0	2.8	1.4
29	.41	.33	.19	.16	---	.37	.50	3.6	3.0	3.0	2.7	2.6
30	.41	.32	.18	.16	---	.38	.59	4.9	3.1	3.0	2.6	2.2
31	.40	---	.18	.16	---	.48	---	5.9	---	3.0	2.7	---
TOTAL	16.45	10.89	6.78	4.83	5.88	10.49	16.27	77.47	117.9	91.5	84.8	67.1
MEAN	.53	.36	.22	.16	.21	.34	.54	2.50	3.93	2.95	2.74	2.24
MAX	.70	.43	.30	.18	.29	.48	.71	5.9	6.4	3.6	3.0	4.1
MIN	.40	.32	.18	.13	.16	.25	.43	.60	2.8	2.5	2.6	1.3
AC-FT	33	22	13	9.6	12	21	32	154	234	181	168	133

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

	MEAN	.66	.51	.38	.32	.33	.44	.82	2.21	2.28	1.56	1.24	1.07
MAX	1.72	1.37	1.03	.85	.81	.90	1.25	5.76	5.38	3.53	2.74	2.24	2.24
(WY)	1994	1994	1994	1994	1994	1994	1994	1993	1993	1993	1995	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1991 - 1995

ANNUAL TOTAL	237.50	510.36		
ANNUAL MEAN	.65	1.40	.99	
HIGHEST ANNUAL MEAN			1.81	1993
LOWEST ANNUAL MEAN			.38	1991
HIGHEST DAILY MEAN	1.9 May 9	6.4 Jun 5	9.6	May 22 1993
LOWEST DAILY MEAN	a .00 Jul 10	b .13 Jan 15	a .00	Jul 10 1994
ANNUAL SEVEN-DAY MINIMUM	.00 Jul 10	.13 Jan 13	.00	Jul 10 1994
INSTANTANEOUS PEAK FLOW		6.8 Jun 4	11	May 21 1993
INSTANTANEOUS PEAK STAGE		.96 Jun 4	1.35	May 21 1993
ANNUAL RUNOFF (AC-FT)	471	1010	715	
10 PERCENT EXCEEDS	1.3	3.4	2.6	
50 PERCENT EXCEEDS	.74	.54	.53	
90 PERCENT EXCEEDS	.00	.17	.18	

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

b-Also occurred Jan 16-19.

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 and 9.5 miles northeast of New Castle.

DRAINAGE AREA.--91.0 mi².

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

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

REMARKS.--Estimated daily discharges: Oct. 3 to Mar. 1, Apr. 24 to May 22, and July 31 to Sept. 30. Records fair except for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	11	12	7.8	8.4	9.4	10	29	256	346	68	21
2	17	12	12	7.6	8.6	9.3	9.7	29	343	342	62	22
3	15	12	12	8.2	8.0	9.3	9.3	35	401	342	62	21
4	15	12	12	8.8	8.2	9.8	9.3	36	445	327	66	20
5	16	12	12	8.8	8.4	10	9.9	42	545	312	60	20
6	16	12	12	9.0	8.4	10	12	50	707	332	56	20
7	16	12	11	9.2	8.6	7.2	15	72	791	361	56	20
8	16	12	10	9.2	8.4	7.3	20	74	798	366	58	20
9	16	12	8.2	9.2	8.2	8.3	24	70	683	341	52	22
10	15	13	7.8	9.4	8.2	7.6	25	80	563	346	52	20
11	15	12	8.6	9.4	7.6	7.9	25	92	544	321	52	18
12	15	13	9.6	9.0	7.6	8.2	24	110	683	285	52	17
13	14	12	11	8.8	8.4	8.2	23	120	822	250	52	16
14	14	12	11	8.8	8.4	8.0	23	110	948	209	45	15
15	14	10	10	8.8	7.6	7.9	24	160	1060	188	40	15
16	14	11	9.6	8.0	7.6	7.9	25	200	1130	176	38	15
17	14	12	10	7.4	8.0	8.1	25	280	1040	165	35	15
18	13	13	10	7.8	8.4	10	25	260	840	145	34	16
19	12	12	11	8.0	8.8	10	25	300	820	137	33	16
20	12	12	10	8.6	9.0	10	25	330	902	119	33	16
21	12	13	9.6	7.6	9.2	10	24	350	903	121	34	17
22	12	12	10	6.6	9.6	10	23	360	873	106	43	16
23	12	12	11	6.2	9.8	10	22	314	790	100	40	15
24	11	14	11	7.2	9.8	11	21	275	639	96	37	15
25	11	14	11	8.2	9.6	11	19	255	587	99	36	15
26	12	12	10	8.4	9.8	10	20	236	563	105	34	16
27	12	12	10	8.4	9.8	9.6	20	233	556	99	31	17
28	12	12	9.8	7.8	9.4	9.5	22	181	535	98	29	19
29	12	11	9.4	8.0	---	10	24	167	481	89	27	22
30	12	12	9.2	8.2	---	9.0	27	165	391	85	26	20
31	12	---	8.6	8.2	---	9.2	---	188	---	76	24	---
TOTAL	426	363	319.4	256.6	241.8	283.7	610.2	5203	20639	6484	1367	537
MEAN	13.7	12.1	10.3	8.28	8.64	9.15	20.3	168	688	209	44.1	17.9
MAX	17	14	12	9.4	9.8	11	27	360	1130	366	68	22
MIN	11	10	7.8	6.2	7.6	7.2	9.3	29	256	76	24	15
AC-FT	845	720	634	509	480	563	1210	10320	40940	12860	2710	1070

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995
MEAN	13.2	11.3	9.89	8.83	8.82
MAX	17.1	13.8	10.9	9.87	10.4
(WY)	1994	1994	1992	1992	1993
MIN	11.2	10.0	8.52	7.05	6.76
(WY)	1993	1993	1991	1991	1991

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1991 - 1995

ANNUAL TOTAL	15124.8	36730.7	75.5
ANNUAL MEAN	41.4	101	121
HIGHEST ANNUAL MEAN			41.9
LOWEST ANNUAL MEAN			1993
HIGHEST DAILY MEAN	452	1130	1130
LOWEST DAILY MEAN	7.8	6.2	5.8
ANNUAL SEVEN-DAY MINIMUM	8.9	7.4	6.2
INSTANTANEOUS PEAK FLOW		1180	1230
INSTANTANEOUS PEAK STAGE		7.28	7.26
INSTANTANEOUS LOW FLOW			5.8
ANNUAL RUNOFF (AC-FT)	30000	72860	54690
10 PERCENT EXCEEDS	91	342	257
50 PERCENT EXCEEDS	14	15	15
90 PERCENT EXCEEDS	9.6	8.2	8.6

a-Maximum gage height, 7.28 ft, 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 miles northeast of New Castle.

DRAINAGE AREA.--23.4 mi².

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

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

REMARKS.--Estimated daily discharges: Feb. 17 to Mar. 21. Records good except for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	6.5	4.7	3.7	4.7	6.0	7.0	16	81	287	40	14
2	8.4	6.0	4.7	4.1	4.7	5.8	7.2	17	104	274	38	14
3	8.1	5.6	4.7	4.1	4.7	5.8	6.7	14	137	283	35	13
4	11	5.5	4.7	4.1	4.7	6.0	7.3	13	162	250	33	13
5	9.1	5.1	4.7	4.1	4.7	6.0	8.7	14	262	227	31	12
6	9.5	5.6	5.0	4.1	4.7	5.6	10	14	282	258	30	12
7	8.9	5.6	5.0	4.1	4.8	5.4	13	13	278	333	28	12
8	8.6	5.7	4.4	4.5	4.7	5.8	15	14	281	336	27	12
9	8.5	5.7	3.6	4.8	4.7	6.6	14	14	250	316	25	12
10	8.9	5.5	4.0	5.0	4.7	6.2	12	15	199	413	24	11
11	8.8	5.8	4.1	5.0	4.7	6.6	12	17	222	410	25	11
12	8.8	5.9	4.1	5.0	4.7	6.8	12	19	295	368	26	10
13	8.5	5.9	4.4	4.7	4.7	6.6	12	19	371	337	23	10
14	8.4	4.8	4.9	4.7	4.7	6.6	14	20	524	293	21	9.6
15	8.5	5.6	4.8	4.7	4.4	6.6	13	37	624	241	21	9.7
16	8.6	6.8	4.7	4.9	4.4	7.4	12	44	369	202	20	9.7
17	7.6	7.0	4.7	4.7	4.6	8.0	12	48	391	194	19	9.2
18	8.3	7.3	4.7	4.7	4.9	8.4	12	48	314	183	17	9.2
19	8.4	7.3	4.7	4.7	5.2	8.6	12	58	292	166	17	9.7
20	9.1	6.8	4.7	5.0	5.6	8.8	11	64	378	157	16	9.2
21	9.2	6.8	4.7	5.1	5.9	8.9	11	70	457	144	18	8.6
22	8.8	7.0	4.8	5.1	5.7	9.4	11	105	433	124	20	8.6
23	8.6	6.3	5.0	4.9	5.7	8.8	11	101	364	109	21	8.6
24	8.0	5.6	5.0	4.7	6.0	9.0	10	85	276	97	19	8.6
25	7.9	5.6	5.0	4.7	6.2	8.3	10	82	276	83	19	8.6
26	7.7	5.2	5.0	4.8	6.3	8.0	12	71	296	71	17	8.6
27	8.0	4.8	4.5	5.0	6.3	7.6	12	63	381	62	16	8.6
28	7.2	5.0	4.4	5.0	6.2	7.4	11	57	476	55	16	8.3
29	7.0	4.8	4.3	4.9	---	7.0	10	53	347	50	15	13
30	7.0	4.7	4.1	4.8	---	6.4	14	55	286	46	15	11
31	5.8	---	4.3	4.9	---	6.6	---	60	---	43	14	---
TOTAL	259.7	175.8	142.4	144.6	143.3	221.0	334.9	1320	9408	6412	706	314.8
MEAN	8.38	5.86	4.59	4.66	5.12	7.13	11.2	42.6	314	207	22.8	10.5
MAX	11	7.3	5.0	5.1	6.3	9.4	15	105	624	413	40	14
MIN	5.8	4.7	3.6	3.7	4.4	5.4	6.7	13	81	43	14	8.3
AC-FT	515	349	282	287	284	438	664	2620	18660	12720	1400	624

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

	7.56	6.05	5.03	4.64	4.50	5.83	13.3	116	211	72.3	15.9	10.5
MEAN	7.56	6.05	5.03	4.64	4.50	5.83	13.3	116	211	72.3	15.9	10.5
MAX	9.46	7.72	5.49	5.10	5.12	7.13	21.6	157	354	207	22.8	13.7
(WY)	1994	1994	1992	1992	1995	1995	1992	1992	1993	1995	1995	1991
MIN	5.89	5.26	4.59	4.42	4.11	4.58	9.62	42.6	66.2	17.2	9.58	8.79
(WY)	1991	1991	1995	1991	1991	1991	1991	1995	1992	1994	1992	1992

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1991 - 1995

ANNUAL TOTAL	8493.5	19582.5	
ANNUAL MEAN	23.3	53.7	
HIGHEST ANNUAL MEAN			39.4
LOWEST ANNUAL MEAN			55.4
HIGHEST DAILY MEAN	214	624	23.6
LOWEST DAILY MEAN	3.6	3.6	2.7
ANNUAL SEVEN-DAY MINIMUM	4.0	4.0	4.0
INSTANTANEOUS PEAK FLOW		834	834
INSTANTANEOUS PEAK STAGE		5.74	a5.74
ANNUAL RUNOFF (AC-FT)	16850	38840	28540
10 PERCENT EXCEEDS	58	250	124
50 PERCENT EXCEEDS	7.9	8.8	8.5
90 PERCENT EXCEEDS	4.4	4.7	4.4

a-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 mi².

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. Elevation of gage is 7,050 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 1 to Mar. 10. Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by water imported from Thompson Creek (Roaring Fork basin), Muddy Creek (Muddy Creek basin), and Buzzard Creek (Plateau Creek basin). Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.5	2.6	1.7	3.1	3.2	7.8	80	469	156	36	5.7
2	2.2	2.6	2.5	2.0	3.1	3.1	8.8	126	484	188	31	5.4
3	1.9	2.6	2.5	2.8	3.0	3.0	11	139	483	180	29	5.9
4	2.0	2.6	2.5	2.6	2.9	3.1	16	114	452	187	27	5.6
5	2.0	2.5	2.5	2.7	3.0	3.0	25	147	546	156	25	4.8
6	3.1	2.4	2.5	2.8	3.1	2.9	38	156	605	143	23	4.7
7	3.4	2.6	2.4	2.7	3.0	2.8	42	156	564	136	22	4.6
8	2.9	2.6	2.3	2.7	3.0	2.8	53	145	527	124	20	5.5
9	2.7	2.6	2.0	2.8	3.0	3.1	51	142	430	114	19	5.9
10	2.6	2.6	1.8	2.7	3.1	4.2	32	160	332	108	18	4.9
11	2.4	2.7	2.2	2.6	2.9	5.2	25	191	356	101	19	4.5
12	2.3	2.7	2.4	2.6	3.1	7.4	24	280	434	91	19	3.8
13	2.3	2.6	2.7	2.6	2.8	7.7	35	207	478	83	26	3.4
14	2.3	2.5	2.8	2.6	2.5	9.5	47	251	548	80	19	3.2
15	2.3	2.5	2.6	2.5	3.0	11	37	412	582	68	18	2.9
16	2.5	2.6	2.7	2.6	3.2	13	32	312	567	59	16	2.8
17	2.8	2.7	2.7	2.4	3.2	16	37	370	498	54	14	2.7
18	3.0	2.8	2.7	2.4	3.1	19	31	385	451	54	12	3.7
19	3.1	2.9	2.5	2.6	3.1	21	36	418	361	53	11	4.6
20	2.9	2.9	2.4	2.6	3.2	18	32	484	380	53	12	3.7
21	2.9	2.8	2.4	2.5	3.2	17	30	485	328	57	17	3.3
22	2.8	2.5	2.4	2.2	3.3	18	28	527	269	53	14	3.3
23	2.8	2.2	2.5	2.5	3.5	15	28	530	229	46	14	3.5
24	2.7	2.4	2.7	2.8	3.6	17	26	467	207	42	18	3.3
25	2.6	2.6	2.4	3.0	3.6	11	28	430	197	40	16	3.4
26	2.6	2.5	2.4	3.0	3.5	12	40	379	186	38	11	3.5
27	2.6	2.4	2.3	2.9	3.5	12	46	403	195	36	9.3	3.6
28	2.6	2.3	2.3	2.8	3.4	10	56	308	184	34	8.5	3.7
29	2.6	2.5	2.3	2.5	---	8.6	67	288	169	33	7.6	12
30	2.6	2.6	2.3	2.8	---	8.8	91	398	166	32	6.9	17
31	2.6	---	2.0	3.1	---	8.1	---	430	---	34	6.3	---
TOTAL	80.0	77.3	75.3	81.1	88.0	296.5	1060.6	9320	11677	2633	544.6	144.9
MEAN	2.58	2.58	2.43	2.62	3.14	9.56	35.4	301	389	84.9	17.6	4.83
MAX	3.4	2.9	2.8	3.1	3.6	21	91	530	605	188	36	17
MIN	1.9	2.2	1.8	1.7	2.5	2.8	7.8	80	166	32	6.3	2.7
AC-FT	159	153	149	161	175	588	2100	18490	23160	5220	1080	287

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1995, BY WATER YEAR (WY)

	3.10	3.13	2.66	2.43	2.51	6.14	46.7	199	130	27.3	4.33	2.37
MEAN	3.10	3.13	2.66	2.43	2.51	6.14	46.7	199	130	27.3	4.33	2.37
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1956 - 1995

ANNUAL TOTAL	7989.84	26078.3	
ANNUAL MEAN	21.9	71.4	36.0
HIGHEST ANNUAL MEAN			76.2
LOWEST ANNUAL MEAN			3.38
HIGHEST DAILY MEAN	189	605	932
LOWEST DAILY MEAN	.18	1.7	a.00
ANNUAL SEVEN-DAY MINIMUM	.29	2.1	.00
INSTANTANEOUS PEAK FLOW		912	b.1410
INSTANTANEOUS PEAK STAGE		4.62	5.83
ANNUAL RUNOFF (AC-FT)	15850	51730	26050
10 PERCENT EXCEEDS	90	310	119
50 PERCENT EXCEEDS	2.9	4.9	3.8
90 PERCENT EXCEEDS	.42	2.5	.63

a-No flow at times in most years.

b-From rating curve extended above 670 ft³/s.

09093700 COLORADO RIVER NEAR DE BEQUE, CO

LOCATION.--Lat 39°21'45", long 108°09'07", in NE¹/4SW¹/4 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 DeBeque.

DRAINAGE AREA.--7,370 mi².

PERIOD OF RECORD.--Streamflow records, October 1966 to current year. Water-quality data available, August 1973 to September 1982. Sediment data available, October 1974 to September 1976.

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

REMARKS.--Estimated daily discharges: Nov. 7-11, 25, 26, 30, Dec. 3, 4, 17-20, and Mar. 13. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1870	1580	1460	1320	1260	1440	1590	2420	8810	20100	9070	3350
2	2020	1530	1350	1120	1300	1470	1570	2640	10000	20500	8530	3220
3	2040	1600	1520	1050	1330	1450	1590	3000	11700	19900	8030	3090
4	2050	1570	1480	1190	1310	1470	1590	2850	13000	20500	7610	3050
5	1970	1640	1440	1210	1290	1490	1600	2670	14600	18500	7290	2990
6	2010	1590	1490	1340	1300	1510	1780	2790	16800	16900	7090	2920
7	2090	1570	1590	1340	1300	1480	1950	2990	17600	17000	6780	2880
8	2010	1580	1610	1350	1310	1340	2110	3210	17400	17900	6480	2860
9	2010	1570	1550	1380	1320	1310	2290	3120	16700	19100	6300	3020
10	1990	1530	1380	1370	1330	1380	2340	2950	15300	20500	5880	3000
11	1970	1530	1140	1370	1330	1410	2260	2960	14200	21200	5790	2870
12	1950	1620	1290	1370	1380	1510	2020	3850	14600	22400	5970	2810
13	1870	1620	1390	1350	1320	1550	1940	4670	16900	23400	5770	2740
14	1880	1560	1470	1330	1350	1580	2010	4310	20200	22800	5600	2640
15	1890	1560	1400	1290	1410	1580	2120	4460	23600	21900	5350	2620
16	1890	1590	1430	1350	1260	1560	2210	5690	26600	19900	5040	2540
17	1880	1630	1400	1340	1220	1650	2160	7050	27900	18400	4790	2460
18	1890	1630	1400	1220	1280	1820	2130	7470	28800	17300	4580	2430
19	1910	1550	1420	1210	1300	1900	2100	7070	25800	16100	4350	2480
20	1880	1430	1410	1240	1330	2030	2190	7300	24100	15800	4250	2510
21	1890	1500	1310	1270	1310	2000	2140	7770	23900	15400	4170	2470
22	1870	1620	1300	1220	1340	1930	2060	8090	24000	14800	4170	2460
23	1840	1560	1300	1090	1370	1930	1980	9260	23600	14200	4360	2500
24	1810	1530	1310	1050	1370	1910	1960	9180	21900	13500	4410	2480
25	1810	1590	1380	1190	1380	1850	1930	8820	20600	12700	4570	2450
26	1810	1580	1420	1290	1400	1780	1930	8420	19800	11900	4500	2400
27	1780	1460	1390	1360	1420	1730	2040	8030	19800	11100	4290	2390
28	1790	1330	1340	1340	1430	1630	1990	7670	20500	10500	4270	2380
29	1800	1410	1310	1310	---	1640	2050	7010	20700	9930	4140	2650
30	1690	1540	1350	1290	---	1610	2200	8470	20100	9660	3860	3260
31	1640	---	1360	1210	---	1600	---	8320	---	9560	3510	---
TOTAL	58800	46600	43390	39360	37250	50540	59830	174510	579510	523350	170800	81920
MEAN	1897	1553	1400	1270	1330	1630	1994	5629	19320	16880	5510	2731
MAX	2090	1640	1610	1380	1430	2030	2340	9260	28800	23400	9070	3350
MIN	1640	1330	1140	1050	1220	1310	1570	2420	8810	9560	3510	2380
AC-FT	116600	92430	86060	78070	73890	100200	118700	346100	1149000	1038000	338800	162500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1995, BY WATER YEAR (WY)

	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	2164	1987	1718	1615	1614	1843	2936	8061	11820	6200	2904	2279																	
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	1978	1978	1977	1977	1977	1977	1977	1977	1977																	

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1967 - 1995
ANNUAL TOTAL	941090	1865860	
ANNUAL MEAN	2578	5112	3767
HIGHEST ANNUAL MEAN			7310
LOWEST ANNUAL MEAN			1785
HIGHEST DAILY MEAN	9430	28800	37400
LOWEST DAILY MEAN	1140	1050	914
ANNUAL SEVEN-DAY MINIMUM	1340	1180	1090
INSTANTANEOUS PEAK FLOW		29500	38200
INSTANTANEOUS PEAK STAGE		12.92	14.83
ANNUAL RUNOFF (AC-FT)	1867000	3701000	2729000
10 PERCENT EXCEEDS	5290	16900	8940
50 PERCENT EXCEEDS	1940	1970	2110
90 PERCENT EXCEEDS	1510	1310	1420

a-Also occurred Jan 24.

09095500 COLORADO RIVER NEAR CAMEO, CO

LOCATION.--Lat 39°14'20", long 108°16'00", in SW¹/4SW¹/4 sec.30, T.9 S., R.97 W., Mesa County, Hydrologic Unit 14010006, on left bank 100 ft north of Interstate 70, 0.5 mi upstream from Jackson Canyon, 5.9 mi upstream from Grand Valley project diversion dam, and 7 mi northeast of Cameo.

DRAINAGE AREA.--8,050 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1933 to current year.

REVISED RECORDS.--WRD Colo. 1973: 1970.

GAGE.--Water-stage recorder with satellite telemetry. 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.--Estimated daily discharges: Oct. 12 to Nov. 1, Dec. 6-8, May 9, 11, 12, 16-18, 23, 24. Records fair 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2010	1720	1640	1570	1480	1830	1860	2940	8150	20200	9110	3670
2	2180	1650	1670	1370	1540	1800	1500	3010	9530	20700	8540	3580
3	2240	1740	1590	1240	1570	1740	1530	3410	11500	20200	8040	3490
4	2240	1680	1580	1350	1570	1790	1590	2900	13100	20800	7610	3450
5	2160	1790	1630	1410	1540	1810	1640	2650	14800	18800	7270	3420
6	2170	1740	1630	1560	1530	2020	2040	3070	16900	17100	7080	3340
7	2260	1730	1640	1630	1490	1720	2410	3010	18000	17200	6800	3320
8	2180	1750	1650	1590	1500	1380	2730	2980	17900	18100	6510	3290
9	2160	1740	1660	1620	1560	1290	3100	3000	17200	19300	6330	3370
10	2140	1720	1370	1630	1570	1420	3650	2870	15900	20700	6010	3370
11	2080	1650	1340	1630	1550	1470	3500	3000	14600	21400	5880	3270
12	2040	1730	1430	1640	1690	1690	2960	4500	14900	22400	5990	3220
13	2000	1730	1480	1640	1670	1850	2730	5130	17300	23700	5860	3170
14	2010	1800	1610	1600	1900	1760	2490	4610	20800	23100	5700	3100
15	2020	1710	1770	1560	1860	1760	2550	4770	24000	22200	5470	3060
16	2020	1580	1740	1600	1410	1690	2610	7050	27000	20100	5180	3020
17	2010	1590	1670	1600	1200	1900	2420	8390	28500	18600	4980	2940
18	2020	1720	1680	1480	1380	2200	2330	7510	29100	17500	4990	2920
19	2050	1720	1680	1430	1440	2330	2160	5940	26500	16300	4820	2950
20	2020	1650	1670	1470	1500	2610	2300	6450	24000	15900	4720	2950
21	2030	1710	1560	1500	1480	2540	2220	7790	23900	15600	4620	2920
22	2010	1720	1520	1530	1540	2390	2080	8600	23900	15000	4590	2910
23	1990	1660	1510	1410	1590	2390	1920	9350	23500	14400	4740	2920
24	1970	1570	1500	1370	1580	2390	1880	8810	21900	13600	4740	2920
25	1970	1460	1590	1410	1600	2290	1890	8350	20700	12900	4790	2890
26	1960	1550	1640	1520	1650	2170	2060	7890	19900	12100	4700	2840
27	1930	1630	1650	1610	1690	2090	2570	7360	19900	11300	4510	2830
28	1940	1590	1580	1620	1720	1920	2230	6950	20500	10500	4430	2810
29	1950	1600	1550	1580	---	1950	2200	6140	20700	9920	4300	3070
30	1860	1550	1570	1530	---	1920	2480	7810	20300	9620	4030	3560
31	1800	---	1600	1450	---	1940	---	7700	---	9580	3820	---
TOTAL	63420	50180	49400	47150	43800	60050	69630	173940	584880	528820	176160	94570
MEAN	2046	1673	1594	1521	1564	1937	2321	5611	19500	17060	5683	3152
MAX	2260	1800	1770	1640	1900	2610	3650	9350	29100	23700	9110	3670
MIN	1800	1460	1340	1240	1200	1290	1500	2650	8150	9580	3820	2810
AC-FT	125800	99530	97980	93520	86880	119100	138100	345000	1160000	1049000	349400	187600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1995, BY WATER YEAR (WY)

	MEAN	2099	1920	1684	1566	1575	1775	3162	9139	12610	5942	2828	2169
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	1037	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1934 - 1995

ANNUAL TOTAL	1007990	1942000											
ANNUAL MEAN	2762	5321											
HIGHEST ANNUAL MEAN										3878			
LOWEST ANNUAL MEAN										7605			1984
HIGHEST DAILY MEAN	11000	Jun 2	29100	Jun 18	38000	May 26	1984			1937			1977
LOWEST DAILY MEAN	1340	Dec 11	1200	Feb 17	700	Dec 29	1939			852			1939
ANNUAL SEVEN-DAY MINIMUM	1510	Dec 8	1420	Feb 16	39300	May 26	1984			29600			1984
INSTANTANEOUS PEAK FLOW			29600	Jun 18	12.67	Jun 18	14.36			14.36			1984
INSTANTANEOUS PEAK STAGE													
ANNUAL RUNOFF (AC-FT)	1999000	3852000								2809000			
10 PERCENT EXCEEDS	5430	17200								9650			
50 PERCENT EXCEEDS	2100	2180								2100			
90 PERCENT EXCEEDS	1640	1530								1350			

09095500 COLORADO RIVER NEAR CAMEO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1933 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1935 to current year.

WATER TEMPERATURE: April 1949 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1982.

REMARKS.--Daily maximum and minimum specific conductance data are available in district office. Daily record of water temperature is good except for the period June to August which is fair. Daily record of specific conductance is fair. Missing daily data were due to sensor fouling or instrument malfunctions.

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, 1,560 microsiemens Jan. 4; minimum, not determined.

WATER TEMPERATURE: Maximum 22.0°C Sep. 3; minimum 0.0°C on many days Nov. to Jan.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT												
03...	1035	2160	1040	8.4	13.0	8.4	250	72	17	120	3	3.4
11...	1500	2150	1010	--	12.5	--	--	--	--	--	--	--
18...	1100	2020	1100	--	8.5	--	--	--	--	--	--	--
25...	1100	1970	1060	--	7.5	--	--	--	--	--	--	--
31...	1430	1800	1140	--	8.0	--	--	--	--	--	--	--
NOV												
21...	1230	1720	1190	8.7	2.5	11.8	280	81	19	140	4	3.9
DEC												
21...	0915	1470	1290	8.4	0.0	11.6	290	82	20	150	4	4.4
JAN												
13...	1130	1540	1250	--	2.5	--	250	70	18	130	4	4.2
FEB												
16...	1130	1440	1330	--	2.0	--	260	74	19	150	4	4.6
MAR												
15...	1400	1750	1160	8.2	9.5	9.0	260	74	19	140	4	3.9
APR												
19...	0945	2290	859	--	9.5	--	210	61	15	98	3	3.2
MAY												
11...	1515	3000	774	8.1	13.0	--	210	56	16	79	2	2.8
JUN												
05...	1320	14700	345	8.0	12.5	8.7	130	37	8.7	20	0.8	1.4
29...	1045	20500	268	8.2	11.5	8.8	96	29	5.8	14	0.6	1.1
JUL												
21...	1130	15500	288	8.2	14.0	8.3	98	30	5.6	17	0.7	1.2
AUG												
08...	0930	6330	465	8.0	16.5	--	130	40	7.5	38	1	1.6
SEP												
05...	1405	3420	823	8.2	20.5	--	220	63	14	81	2	2.7

09095500 COLORADO RIVER NEAR CAMEO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)
OCT												
03...	145	130	160	0.3	9.3	610	599	0.83	3560	--	--	<1
11...	--	--	--	--	--	594	--	--	--	--	--	--
18...	--	--	--	--	--	616	--	--	--	--	--	--
25...	--	--	--	--	--	622	--	--	--	--	--	--
31...	--	--	--	--	--	646	--	--	--	--	--	--
NOV												
21...	156	160	190	0.3	7.8	712	696	0.97	3310	15	5	1
DEC												
21...	168	170	210	0.3	8.7	778	746	1.06	3090	26	19	1
JAN												
13...	156	150	190	0.3	6.9	719	663	0.98	2990	--	--	1
FEB												
16...	160	170	210	0.3	8.3	764	732	1.04	2970	--	--	1
MAR												
15...	153	150	180	0.3	8.9	690	668	0.94	3260	11	22	--
APR												
19...	152	110	130	0.3	8.6	535	517	0.73	3310	--	--	1
MAY												
11...	145	95	98	0.3	9.2	--	443	0.60	3590	--	--	1
JUN												
05...	104	41	18	0.2	9.3	210	198	0.29	8330	74	15	<1
29...	76	29	15	0.1	6.9	153	147	0.21	8460	61	8	<1
JUL												
21...	71	33	20	0.2	6.9	165	157	0.22	6910	46	9	<1
AUG												
08...	87	59	49	0.2	6.6	--	254	0.35	4340	--	--	<1
SEP												
05...	128	110	110	0.2	8.1	--	466	0.63	4300	--	--	<1

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1080	---	1280	1230	1350	1110	1040	934	---	267	420	741
2	1070	---	1280	1240	1350	1110	1050	883	---	265	418	773
3	1050	---	1200	1410	1320	1100	1060	852	---	270	413	794
4	1050	---	1220	1490	1300	1110	1040	807	---	267	422	817
5	1030	---	1220	1460	1300	1130	1020	777	---	282	437	833
6	1040	---	1180	1400	1310	1090	1000	788	---	299	445	846
7	1020	---	1160	1320	1310	1110	942	776	---	306	456	858
8	994	---	1150	1260	1320	1130	879	765	---	304	470	868
9	1000	1200	1170	1240	1300	1190	846	745	---	302	477	869
10	995	1190	1180	1230	1290	1230	810	733	---	304	489	858
11	1010	1160	1290	1220	1270	1210	791	743	---	295	---	859
12	---	1210	1430	1230	1240	1220	787	711	---	283	---	880
13	---	1220	1450	1230	1200	1210	816	---	---	275	---	886
14	---	1220	1330	1270	1130	1200	839	---	---	294	---	923
15	---	1190	1240	1310	1170	1210	832	---	---	291	---	896
16	---	1220	1270	1320	1170	1170	808	---	---	281	---	922
17	---	1230	1320	1310	1190	1180	787	---	---	290	---	950
18	---	1210	1330	1310	1240	1080	796	---	---	299	---	986
19	---	1160	1320	1350	1220	1020	828	---	---	307	624	979
20	---	1160	1310	1390	1180	1000	872	---	283	321	652	967
21	---	1200	1260	1390	1170	974	891	---	277	337	661	974
22	---	1210	1270	1370	1160	990	904	---	272	354	674	977
23	---	1210	1330	1380	1150	1010	929	---	269	370	668	984
24	---	1230	1330	1440	1140	1020	950	---	273	386	648	989
25	---	1260	1300	1530	1130	1040	960	---	277	404	644	1000
26	---	1330	1270	1480	1130	1050	968	---	278	416	647	1020
27	---	1310	1240	1350	1120	1030	983	---	277	419	647	1040
28	---	1240	1240	1310	1120	1020	973	---	269	421	665	1050
29	---	1240	1270	1280	---	1040	969	---	265	420	670	1050
30	---	1270	1280	1280	---	1020	953	---	265	409	682	959
31	---	---	1270	1310	---	1020	---	---	405	712	---	---

09095500 COLORADO RIVER NEAR CAMEO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	13.6	12.2	---	---	1.0	.0	1.0	.0	4.1	2.0	8.6	7.0
2	13.9	11.6	---	---	1.6	.0	.0	.0	5.3	2.9	7.8	6.1
3	14.4	12.7	---	---	1.7	.0	.2	.0	5.5	3.1	7.9	6.3
4	14.4	12.7	---	---	---	---	.0	.0	5.1	3.0	9.0	6.6
5	13.8	12.1	---	---	---	---	.1	.0	5.0	2.7	7.9	6.4
6	12.1	11.2	---	---	---	---	.6	.0	5.1	2.6	7.6	5.4
7	12.3	10.6	---	---	---	---	.3	.0	5.2	3.0	6.9	3.9
8	13.1	10.2	---	---	---	---	.8	.0	4.9	3.4	6.4	3.6
9	13.3	10.1	---	---	---	---	2.0	.8	4.6	3.4	8.0	4.2
10	13.1	10.0	7.5	5.4	.1	.0	2.5	1.5	5.9	4.0	8.8	5.4
11	13.2	10.0	7.1	5.2	.0	.0	3.5	2.1	4.7	3.2	8.3	7.3
12	13.2	10.1	7.2	6.3	.1	.0	3.9	2.0	3.2	1.0	7.8	7.1
13	12.9	10.2	6.6	4.8	.1	.0	3.9	2.4	3.9	1.3	9.5	6.3
14	12.0	10.6	5.1	3.3	.5	.0	4.7	3.1	3.8	2.9	10.6	6.5
15	11.1	10.2	4.1	2.3	.1	.0	4.2	2.8	3.5	1.1	10.3	7.8
16	11.1	9.2	3.3	2.1	.2	.0	3.7	2.3	3.9	1.1	11.6	7.7
17	10.0	8.5	3.7	2.1	.1	.0	2.8	1.7	4.3	1.7	12.5	9.3
18	9.1	8.1	2.8	2.1	.0	.0	2.3	.5	5.1	2.5	12.3	9.4
19	10.1	8.0	3.7	2.1	.0	.0	1.5	.0	5.7	3.0	11.9	9.8
20	10.4	7.9	3.3	1.4	.0	.0	1.1	.0	6.4	3.3	10.6	8.3
21	10.3	7.5	3.4	2.1	.0	.0	.8	.0	6.9	4.1	9.7	8.6
22	10.5	7.8	3.9	2.1	.0	.0	.2	.0	7.4	4.4	10.1	7.5
23	10.5	7.7	2.6	.9	.0	.0	.0	.0	7.6	4.6	10.3	6.8
24	10.0	7.7	2.2	.3	.5	.0	.1	.0	8.0	4.8	9.1	7.0
25	10.0	7.3	2.5	.4	1.5	.2	.9	.0	7.9	5.2	7.9	6.1
26	9.8	7.1	2.2	1.1	2.7	1.3	1.6	.8	8.4	6.2	8.1	5.1
27	9.2	7.7	1.1	.0	2.5	.9	2.7	1.5	9.0	6.0	8.1	5.2
28	9.5	6.8	.9	.0	2.0	.4	3.8	1.7	9.1	6.9	9.1	5.1
29	9.6	7.1	.1	.0	1.6	.8	3.6	1.7	---	---	7.9	5.1
30	9.1	7.5	.5	.0	1.9	.8	2.7	.9	---	---	7.0	3.8
31	7.8	5.9	---	---	1.8	.7	3.1	1.4	---	---	8.8	4.2
MONTH	14.4	5.9	---	---	---	---	4.7	.0	9.1	1.0	12.5	3.6
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10.1	5.1	12.6	10.1	13.7	11.2	11.5	10.4	17.6	14.5	20.8	18.3
2	10.4	6.8	11.5	10.3	13.5	11.9	11.7	10.0	17.3	14.4	21.1	18.9
3	11.9	7.4	11.8	9.5	12.6	11.1	11.4	10.5	17.7	15.0	22.0	19.0
4	13.0	8.4	12.9	9.5	11.9	10.8	11.7	10.0	18.3	15.3	21.5	19.0
5	13.5	9.2	12.3	10.6	13.1	10.9	12.8	10.4	18.5	16.1	20.5	18.1
6	13.6	9.9	12.1	9.6	12.9	11.6	14.7	11.7	18.2	15.4	20.9	18.3
7	13.8	10.1	11.4	10.0	12.2	10.4	15.2	13.0	18.4	15.6	20.1	18.1
8	13.1	10.5	11.4	9.9	11.0	10.2	15.3	13.0	19.1	16.6	20.0	17.5
9	11.1	8.0	11.7	10.0	10.9	9.5	14.8	13.2	19.2	16.6	19.9	17.3
10	9.1	6.5	13.8	10.7	11.5	9.3	14.9	13.2	18.8	17.0	19.7	17.4
11	8.9	5.8	13.4	11.5	12.5	10.1	15.0	13.1	---	---	19.1	16.8
12	11.4	6.3	12.1	10.7	13.5	11.1	15.0	13.2	---	---	17.7	15.4
13	12.4	8.8	11.7	9.5	13.6	12.1	14.7	13.5	---	---	18.2	15.2
14	11.6	9.2	13.6	10.5	13.2	11.8	14.4	13.4	---	---	19.1	15.7
15	9.9	8.4	14.9	12.2	12.9	12.1	14.3	12.3	---	---	18.9	15.6
16	11.2	7.2	14.6	12.7	12.2	11.1	15.3	12.9	---	---	19.1	15.5
17	10.6	8.3	12.9	11.5	11.2	9.5	15.3	13.7	---	---	18.6	15.8
18	11.0	7.1	12.0	10.3	11.0	8.8	14.6	13.5	---	---	17.9	16.1
19	12.1	9.1	13.4	10.5	12.4	10.0	15.3	13.2	19.2	17.8	17.6	14.8
20	10.2	8.5	13.2	11.6	12.9	10.9	15.5	13.2	18.0	17.1	17.1	14.9
21	11.0	8.5	13.1	10.8	12.9	11.3	15.2	13.1	19.4	16.7	15.7	12.2
22	11.4	8.4	13.3	11.2	13.1	11.4	14.9	12.5	20.6	18.5	14.4	11.5
23	11.3	9.5	12.7	11.1	12.9	11.2	14.9	13.3	20.6	19.2	13.7	10.7
24	12.6	8.3	11.4	9.8	12.8	11.1	15.7	13.1	20.1	18.9	13.5	10.8
25	13.3	9.0	11.1	9.3	12.9	11.0	16.3	13.4	19.8	18.2	13.1	10.1
26	13.8	9.7	11.3	9.1	13.4	11.2	16.8	13.7	20.5	18.1	12.9	10.5
27	14.0	10.0	11.8	9.6	13.9	11.7	17.0	13.7	20.3	18.7	14.7	11.1
28	13.6	11.0	11.2	9.3	13.6	11.7	17.3	13.9	20.8	18.8	13.8	12.3
29	14.0	10.6	10.9	8.9	12.3	11.4	17.9	14.5	21.0	18.7	13.2	11.7
30	13.8	11.3	10.3	9.1	12.1	11.0	17.4	14.9	20.8	18.7	13.0	11.2
31	---	---	12.3	9.2	---	---	17.6	14.7	20.7	18.2	---	---
MONTH	14.0	5.1	14.9	8.9	13.9	8.8	17.9	10.0	---	---	22.0	10.1

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 mi².

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.--Estimated daily discharges: Nov.30 and Jan. 23-26. Records good except for estimated daily discharges, which are fair. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	159	91	95	67	85	139	108	381	1290	1810	143	122
2	129	89	93	70	90	113	110	425	1350	2020	138	122
3	107	96	92	86	90	149	113	626	1370	1920	131	117
4	121	96	92	90	86	131	125	428	1470	1820	131	116
5	132	93	94	95	87	113	161	423	1770	1450	126	114
6	128	93	112	94	87	208	221	462	2360	1260	124	116
7	117	93	105	86	88	110	268	416	2400	1310	121	119
8	112	95	103	83	87	99	304	466	2420	1240	117	130
9	109	96	74	86	90	98	326	474	1990	1170	112	132
10	106	92	74	86	89	102	219	394	1470	1180	109	140
11	105	93	96	94	90	112	179	421	1630	1000	116	141
12	104	94	93	92	92	145	161	893	2270	902	121	132
13	103	98	112	89	108	126	166	746	2720	864	144	130
14	101	89	101	89	142	111	238	522	3010	873	133	128
15	104	82	92	88	117	128	207	762	3610	708	129	123
16	107	91	91	92	89	134	176	1100	4080	573	123	124
17	104	104	90	88	91	157	196	1210	3920	491	126	125
18	106	97	85	80	93	185	191	1180	3340	472	117	132
19	107	104	86	87	91	224	211	1160	2660	501	115	138
20	101	98	84	94	92	232	194	1280	2820	448	123	139
21	100	100	82	83	96	206	192	1300	2870	379	125	133
22	96	100	89	76	99	236	172	1340	2740	354	132	141
23	95	84	98	66	102	177	167	1530	2620	317	137	147
24	96	91	96	70	103	181	162	1220	2370	282	142	147
25	95	98	86	78	105	149	175	1150	2200	243	149	148
26	95	100	87	85	107	142	194	972	2130	215	140	154
27	94	94	83	95	113	122	213	1010	2070	196	131	158
28	94	98	82	89	119	121	237	861	1850	185	132	157
29	93	91	84	83	---	118	273	726	1900	171	131	275
30	92	86	86	76	---	106	343	1360	1770	157	124	383
31	90	---	84	85	---	110	---	1430	---	151	121	---
TOTAL	3302	2826	2821	2622	2728	4484	6002	26668	70470	24662	3963	4383
MEAN	107	94.2	91.0	84.6	97.4	145	200	860	2349	796	128	146
MAX	159	104	112	95	142	236	343	1530	4080	2020	149	383
MIN	90	82	74	66	85	98	108	381	1290	151	109	114
AC-FT	6550	5610	5600	5200	5410	8890	11900	52900	139800	48920	7860	8690

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1995, BY WATER YEAR (WY)

MEAN	112	101	85.6	76.6	81.6	105	240	666	524	125	77.7	90.8
MAX	333	207	148	116	148	202	759	1825	2975	796	328	241
(WY)	1942	1987	1942	1972	1958	1986	1942	1942	1983	1995	1983	1986
MIN	25.2	37.3	42.1	41.4	42.7	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1936 - 1995

ANNUAL TOTAL	48172	154931										
ANNUAL MEAN	132	424										
HIGHEST ANNUAL MEAN												
LOWEST ANNUAL MEAN												
HIGHEST DAILY MEAN	610	May 17	4080	Jun 16	4100	Jun 25	1983					
LOWEST DAILY MEAN	45	Aug 7	66	Jan 23	8.2	Aug 15	1977					
ANNUAL SEVEN-DAY MINIMUM	47	Aug 2	79	Jan 20	9.1	Aug 10	1977					
INSTANTANEOUS PEAK FLOW			4900	Jun 16	5580	Jun 15	1973					
INSTANTANEOUS PEAK STAGE			8.73	Jun 16	a7.99	Jun 15	1973					
ANNUAL RUNOFF (AC-FT)	95550	307300			138700							
10 PERCENT EXCEEDS	296	1350			424							
50 PERCENT EXCEEDS	95	124			95							
90 PERCENT EXCEEDS	56	87			46							

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 maximum and minimum specific conductance data available in district office. Daily record of water temperature is good. Daily record of specific conductance is good. Interruptions in daily record are due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, not determined; minimum, 160 microsiemens several days in June 1995.

WATER TEMPERATURE: Maximum, 26.1°C, Aug. 11, 1995; minimum, 0.0°C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, not determined; minimum, 160 microsiemens several days in June.

WATER TEMPERATURE: Maximum, 26.1°C Aug. 11; minimum, 0.0°C on many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	
OCT 27...	1035	94	728	8.7	6.5	10.6	K19	K13	290	55	37	
NOV 21...	1015	135	697	8.7	3.0	11.6	--	--	280	58	34	
DEC 21...	1340	80	730	8.7	0.0	12.4	--	--	290	60	35	
FEB 23...	1245	96	709	8.7	5.0	11.2	--	--	250	55	28	
MAR 14...	1350	112	670	8.7	10.0	10.2	<1	<1	260	56	28	
APR 15...	1330	218	484	8.5	6.0	12.3	--	--	190	47	17	
15...	1340	218	484	8.5	6.0	12.3	--	--	190	47	17	
JUN 05...	1015	1830	262	8.1	9.5	9.9	270	170	120	31	9.3	
29...	1335	1800	187	8.2	11.5	8.9	--	--	77	20	6.5	
JUL 19...	1240	530	418	8.4	18.5	7.5	--	--	150	42	12	
AUG 25...	1300	155	644	8.6	19.0	9.0	140	K74	--	--	--	
DATE		SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 27...	57	1	5.0	327	75	6.6	0.6	27	--	459	0.62	
NOV 21...	55	1	4.7	318	77	6.6	0.5	25	443	451	0.60	
DEC 21...	56	1	4.5	311	81	6.8	0.5	28	436	461	0.59	
FEB 23...	54	1	4.1	291	93	7.0	0.5	22	459	438	0.62	
MAR 14...	54	1	3.5	266	86	7.1	0.4	22	430	417	0.58	
APR 15...	30	1	2.7	209	45	4.5	0.3	17	--	289	0.39	
15...	30	1	2.7	209	45	4.3	0.3	17	--	289	0.39	
JUN 05...	12	0.5	1.9	125	15	1.4	0.2	14	169	160	0.23	
29...	8.3	0.4	1.4	86	10	1.0	0.1	14	121	113	0.16	
JUL 19...	28	1	2.7	157	57	2.6	0.3	17	266	256	0.36	
Aug 25...	--	--	--	--	--	--	--	--	--	--	--	

K-Based on non-ideal colony count.

09105000 PLATEAU CREEK NEAR CAMEO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	CADMIUM DIS- SOLVED (UG/L AS CD)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 27...	117	<1	<1	300	<1	30	6	<0.1	<1	<0.2	<3
NOV 21...	161	--	--	--	--	--	10	--	--	--	--
DEC 21...	94.2	--	--	--	--	--	11	--	--	--	--
FEB 23...	119	--	--	--	--	--	10	--	--	--	--
MAR 14...	130	<1	<1	1500	<1	80	6	<0.1	1	<0.2	<10
APR 15...	170	--	--	--	--	--	--	--	--	--	--
15...	170	--	--	--	--	--	--	--	--	--	--
JUN 05...	835	2.0	2	9900	<1	400	10	<0.1	<1	<0.2	<10
29...	588	--	--	--	--	--	7	--	<1	--	--
JUL 19...	381	--	--	--	--	--	4	--	<1	--	--
AUG 25...	--	<1	4	570	<1	70	20	<0.1	<1	<0.2	<10

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 17...	1510	101	743	8.5	FEB 09...	1010	86	730	3.0

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	661	690	---	---	---	677	605	457	355	195	512	611
2	661	692	---	---	---	710	601	467	331	192	524	615
3	715	692	---	---	---	679	587	462	322	209	523	617
4	710	696	---	---	---	715	578	455	320	222	527	617
5	690	689	---	---	---	719	543	438	283	232	544	613
6	687	684	---	---	---	678	480	419	245	243	568	622
7	708	684	---	---	---	748	438	420	232	233	569	627
8	719	675	---	---	---	745	425	468	224	232	557	632
9	713	672	---	---	---	730	412	486	241	234	549	622
10	713	669	---	---	---	719	441	498	267	230	567	619
11	720	669	---	---	---	705	479	463	246	240	570	622
12	730	667	---	---	---	664	510	464	205	251	570	626
13	723	662	---	---	---	669	521	450	193	---	576	637
14	732	660	---	---	---	681	496	466	183	---	563	638
15	743	689	---	---	---	687	469	397	173	---	554	642
16	745	694	---	---	---	657	482	341	166	---	559	642
17	740	666	---	---	---	625	495	360	178	---	568	642
18	740	661	---	---	---	577	498	348	196	341	576	648
19	737	655	---	---	---	540	517	339	188	341	587	654
20	729	653	---	---	---	511	520	323	172	349	598	640
21	718	679	---	---	---	535	522	316	169	354	616	650
22	715	702	---	---	---	519	530	307	169	370	606	661
23	708	716	---	---	---	541	532	286	170	384	592	656
24	697	747	---	---	707	556	532	303	172	399	608	652
25	695	708	---	---	707	570	530	312	176	411	607	662
26	697	695	---	---	700	586	520	327	178	435	597	658
27	689	675	---	---	690	596	517	333	174	451	607	650
28	688	---	---	---	692	604	498	343	187	467	611	651
29	686	---	---	---	---	600	476	362	184	485	608	663
30	687	---	---	---	---	608	467	379	196	498	602	579
31	688	---	---	---	---	615	---	369	---	507	604	---

09105000 PLATEAU CREEK NEAR CAMEO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.5	10.3	6.0	3.3	---	---	---	---	---	---	7.6	5.3
2	14.0	10.0	7.1	5.0	---	---	---	---	---	---	7.9	4.7
3	13.7	11.1	7.2	6.1	---	---	---	---	---	---	8.0	4.7
4	14.2	11.2	7.0	4.2	---	---	---	---	---	---	8.6	5.2
5	13.8	10.8	7.0	4.2	---	---	---	---	---	---	6.6	4.3
6	12.8	9.5	6.9	3.3	---	---	---	---	---	---	6.7	3.3
7	12.9	8.7	8.3	4.1	---	---	---	---	---	---	6.4	.5
8	13.1	8.2	8.1	6.5	---	---	---	---	---	---	6.2	1.0
9	12.5	7.2	6.7	3.9	---	---	---	---	---	---	8.5	1.7
10	12.7	7.1	6.2	3.0	---	---	---	---	---	---	9.4	3.7
11	12.6	7.5	6.7	3.4	---	---	---	---	---	---	8.6	6.6
12	12.7	7.6	7.8	6.4	---	---	---	---	---	---	7.1	5.6
13	11.4	7.8	6.8	3.1	---	---	---	---	---	---	9.1	3.3
14	11.1	9.2	3.1	.0	---	---	---	---	---	---	10.7	4.0
15	10.4	8.9	1.9	.0	---	---	---	---	---	---	9.1	5.5
16	10.1	7.1	3.4	.2	---	---	---	---	---	---	12.1	5.3
17	8.7	6.3	3.8	1.3	---	---	---	---	---	---	12.1	7.0
18	9.7	7.2	3.9	1.8	---	---	---	---	---	---	10.9	5.7
19	11.8	7.6	4.7	2.3	---	---	---	---	---	---	9.4	7.4
20	10.1	6.8	3.2	1.0	---	---	---	---	---	---	8.4	3.5
21	10.2	5.4	4.4	2.6	---	---	---	---	---	---	8.1	6.7
22	10.3	5.7	3.8	1.8	---	---	---	---	---	---	9.3	5.2
23	10.1	5.5	2.1	.0	---	---	---	---	---	---	9.7	3.2
24	9.2	5.5	1.7	.0	---	---	---	---	7.9	2.5	8.3	5.1
25	9.4	4.7	3.2	.2	---	---	---	---	7.7	3.2	5.6	3.5
26	9.3	4.8	2.9	.3	---	---	---	---	9.1	4.5	7.6	2.5
27	8.4	6.1	.4	.0	---	---	---	---	8.9	3.8	9.3	2.0
28	9.7	5.2	---	---	---	---	---	---	9.0	5.5	9.4	3.3
29	9.6	5.2	---	---	---	---	---	---	---	---	7.1	3.4
30	8.8	6.5	---	---	---	---	---	---	---	---	8.4	1.7
31	7.1	3.0	---	---	---	---	---	---	---	---	10.2	2.2
MONTH	14.2	3.0	---	---	---	---	---	---	---	---	12.1	.5
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.5	3.5	10.9	5.6	14.0	9.3	14.4	10.4	23.3	16.2	22.8	16.5
2	11.2	5.0	10.0	7.8	13.4	10.4	15.2	10.3	23.1	15.8	22.9	17.4
3	13.0	5.4	11.5	5.8	11.1	8.6	14.2	11.0	23.4	17.0	24.2	18.0
4	13.3	5.8	12.0	6.6	11.5	9.1	14.4	9.5	24.4	17.9	22.8	17.3
5	13.0	6.3	11.2	8.7	14.5	8.2	16.5	10.1	24.9	17.9	21.2	16.8
6	12.0	6.5	10.5	6.5	13.4	9.1	18.2	11.6	24.4	17.6	22.9	17.2
7	11.7	6.4	9.8	7.4	11.8	7.1	19.1	12.8	24.2	17.8	20.7	16.7
8	10.7	7.2	8.8	7.0	10.7	8.3	19.9	13.4	25.0	19.1	21.8	16.6
9	8.3	4.1	10.8	7.1	10.7	6.1	19.4	14.6	24.8	18.1	21.4	16.0
10	8.0	2.6	12.7	7.0	12.9	7.0	19.6	14.9	23.0	18.2	20.5	15.9
11	8.9	2.9	11.7	8.6	13.7	7.5	20.6	15.2	26.1	19.2	19.8	14.6
12	12.5	4.3	9.9	7.5	13.7	8.1	---	---	23.9	18.4	19.5	13.4
13	12.3	7.3	10.4	5.5	13.8	8.2	---	---	24.9	18.4	19.0	13.1
14	10.9	7.0	14.1	7.9	13.6	8.0	---	---	22.7	17.8	20.0	14.7
15	7.7	5.2	14.0	9.4	12.4	8.9	---	---	23.8	16.7	20.0	14.0
16	11.9	4.9	12.2	7.3	11.9	7.5	---	---	21.6	16.7	19.7	13.6
17	9.8	6.1	9.5	7.3	9.6	7.4	---	---	23.5	17.0	18.7	13.9
18	10.3	4.7	12.1	6.6	12.2	5.8	---	---	24.0	17.1	18.1	14.8
19	10.4	7.7	13.2	7.8	13.5	7.5	21.4	15.9	21.6	16.8	18.3	13.0
20	9.0	6.0	12.3	8.3	13.5	7.6	21.2	14.9	21.2	17.1	16.8	13.0
21	10.1	5.7	12.7	7.6	12.9	8.1	20.3	15.2	23.8	17.6	15.6	10.1
22	11.0	4.8	12.4	8.4	13.6	8.1	20.9	15.1	24.6	18.3	13.6	8.1
23	9.9	6.7	11.6	7.9	13.8	7.8	20.6	15.7	23.3	19.2	13.1	7.9
24	12.6	5.0	10.0	7.3	14.1	8.4	21.7	15.3	22.4	18.0	14.0	9.3
25	12.6	6.3	10.0	7.7	14.5	8.7	22.1	15.4	22.3	16.9	12.9	7.9
26	14.2	7.5	10.1	6.9	15.5	9.3	22.3	15.5	24.0	17.1	14.2	9.3
27	13.0	7.7	11.5	8.9	15.5	10.1	22.6	15.3	22.5	17.7	15.9	10.6
28	11.9	8.5	9.9	7.2	15.7	10.8	23.5	15.9	23.0	18.1	14.8	11.8
29	12.8	8.7	9.7	7.2	14.5	10.8	24.1	17.3	23.7	17.6	14.1	11.7
30	11.7	9.0	9.1	6.8	13.8	11.3	22.5	18.0	23.1	16.9	13.9	10.0
31	---	---	12.3	7.5	---	---	23.8	16.9	23.0	16.3	---	---
MONTH	14.2	2.6	14.1	5.5	15.7	5.8	---	---	26.1	15.8	24.2	7.9

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 mile downstream of intake structure for Grand Valley Diversion Canal, and 0.25 mile south of Palisade.

DRAINAGE AREA.--8,753 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,670 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, power development, and diversion for irrigation of about 230,000 acres.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	843	682	1520	1440	1370	1620	1410	1320	8930	20700	7560	1800
2	926	606	1670	1150	1440	1600	1350	1590	10300	21200	7050	1670
3	960	736	1610	1100	1500	1640	1250	2260	12100	20100	6470	1550
4	942	689	1560	1190	1470	1630	910	1940	13400	20800	6040	1490
5	878	775	1450	1340	1440	1610	837	1730	15000	18700	5610	1420
6	889	870	1560	1510	1430	1840	962	1850	17500	16900	5430	1340
7	979	1170	1510	1530	1440	1610	1130	2000	18000	16900	5100	1330
8	917	1340	1440	1560	1440	1460	1240	2200	18900	17600	4800	1290
9	900	1370	1340	1600	1470	1380	1360	2280	17800	18400	4580	1430
10	898	1400	1120	1610	1470	1580	1330	1980	15900	19600	4250	1500
11	874	1510	1200	1590	1450	1510	1200	1950	14600	20200	4010	1390
12	858	1530	1220	1610	1480	1640	980	3370	15600	21000	4250	1340
13	797	1180	1470	1580	1480	1710	715	4630	17900	22200	4130	1310
14	756	1450	1580	1530	1530	1660	754	3840	21200	21800	3910	1240
15	798	1520	1610	1500	1640	1660	847	4180	24900	20900	3670	1200
16	873	1420	1530	1550	1410	1640	864	5580	27600	18800	3360	1190
17	815	1250	1440	1550	1280	1670	845	7340	29600	17300	3100	1110
18	798	1220	1440	1430	1320	2010	841	7510	29000	16200	2880	1100
19	826	1130	1440	1360	1360	2100	836	7640	27600	15000	2650	1150
20	813	1300	1420	1370	1400	2260	916	7640	25000	14400	2550	1210
21	817	1170	1320	1410	1400	2210	934	8190	25100	14100	2540	1170
22	806	1300	1300	1330	1420	2160	849	8350	25100	13500	2530	1160
23	774	1460	1390	1180	1460	2100	748	9620	24500	12800	2830	1230
24	733	1390	1480	1160	1470	2060	713	9920	22600	12100	2980	1210
25	780	1300	1530	1320	1460	1970	715	9300	21100	11300	3110	1160
26	863	1280	1600	1470	1470	1910	718	8860	20300	10500	3010	1140
27	846	1440	1580	1530	1530	1760	808	8270	20000	9710	2770	1120
28	841	1400	1480	1550	1540	1600	845	7890	20400	9040	2680	1080
29	850	1320	1450	1480	---	1580	883	6920	20900	8430	2610	1440
30	810	1380	1480	1420	---	1550	1070	8700	20400	8120	2340	2390
31	686	---	1510	1360	---	1480	---	9000	---	7990	2000	---
TOTAL	26146	36588	45250	44310	40570	54210	28860	167850	601230	496290	120800	40160
MEAN	843	1220	1460	1429	1449	1749	962	5415	20040	16010	3897	1339
MAX	979	1530	1670	1610	1640	2260	1410	9920	29600	22200	7560	2390
MIN	686	606	1120	1100	1280	1380	713	1320	8930	7990	2000	1080
AC-FT	51860	72570	89750	87890	80470	107500	57240	332900	1193000	984400	239600	79660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

	MEAN	828	1626	1493	1466	1533	1772	1645	6822	10420	5364	1572	1011
MAX	1279	1918	1873	1794	1903	2109	2540	14160	20040	16010	3897	1339	
(WY)	1994	1992	1994	1994	1994	1994	1993	1995	1995	1995	1995	1995	
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1991 - 1995

ANNUAL TOTAL	684817	1702264		
ANNUAL MEAN	1876	4664		
HIGHEST ANNUAL MEAN			2966	
LOWEST ANNUAL MEAN			4664	1995
HIGHEST DAILY MEAN	8930	Jun 2	29600	Jun 17
LOWEST DAILY MEAN	342	Aug 6	606	Nov 2
ANNUAL SEVEN-DAY MINIMUM	443	Aug 2	712	Oct 30
INSTANTANEOUS PEAK FLOW			30600	Jun 17
INSTANTANEOUS PEAK STAGE			12.41	Jun 17
ANNUAL RUNOFF (AC-FT)	1358000	3376000		2149000
10 PERCENT EXCEEDS	4190	17400		7150
50 PERCENT EXCEEDS	1450	1510		1510
90 PERCENT EXCEEDS	540	850		702

09106150 COLORADO RIVER BELOW GRAND VALLEY DIVERSION, NEAR PALISADE, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1993 to current.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
OCT											
04...	1405	915	1050	--	15.0	--	--	--	250	73	17
12...	1530	870	1050	--	13.5	--	--	--	--	--	--
19...	1645	820	1100	--	10.5	--	--	--	--	--	--
24...	1530	728	1090	--	10.5	--	--	--	--	--	--
27...	1325	859	1070	8.5	10.0	10.2	K5	K5	250	71	17
NOV											
01...	1350	767	1180	--	7.5	--	--	--	--	--	--
10...	1300	1520	1240	--	7.5	--	--	--	280	78	21
DEC											
21...	1200	1190	1310	--	1.0	--	--	--	290	81	21
JAN											
10...	1400	1540	1230	--	1.5	--	--	--	260	72	19
FEB											
14...	1100	1370	1220	--	5.5	--	--	--	230	64	16
MAR											
15...	1030	1680	1140	8.3	10.0	9.3	77	50	260	73	20
APR											
19...	1025	834	884	--	17.0	--	--	--	210	58	16
MAY											
11...	1300	1930	739	--	14.5	--	--	--	190	53	15
JUN											
06...	1125	17700	331	8.0	12.0	9.5	515	450	120	36	8.5
JUL											
17...	1415	17100	272	8.2	16.5	--	--	--	93	28	5.6
AUG											
08...	1020	4770	462	7.9	19.0	--	--	--	130	40	8.0
25...	0955	3120	661	8.2	19.0	7.3	520	520	180	52	13
SEP											
05...	1500	1410	816	8.0	21.5	--	--	--	220	63	14

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT											
04...	110	3	3.7	153	130	150	0.3	9.6	606	585	0.82
12...	--	--	--	--	--	--	--	--	588	--	--
19...	--	--	--	--	--	--	--	--	604	--	--
24...	--	--	--	--	--	--	--	--	618	--	--
27...	120	3	3.3	153	140	170	0.3	6.8	--	620	0.84
NOV											
01...	--	--	--	--	--	--	--	--	674	--	--
10...	130	3	4.5	166	160	180	0.3	7.7	698	681	0.95
DEC											
21...	150	4	4.5	170	160	200	0.3	9.4	758	728	1.03
JAN											
10...	140	4	4.3	162	150	190	0.3	7.8	703	681	0.96
FEB											
14...	150	4	4.1	158	160	190	0.4	7.6	702	687	0.95
MAR											
15...	130	3	3.9	169	150	170	0.3	10	690	659	0.94
APR											
19...	86	3	3.4	154	100	110	0.3	11	497	477	0.68
MAY											
11...	73	2	2.8	153	88	87	0.3	11	--	422	0.57
JUN											
06...	18	0.7	1.5	104	36	16	0.2	9.8	201	188	0.27
JUL											
17...	16	0.7	1.2	73	31	17	0.2	7.2	--	150	0.20
AUG											
08...	37	1	1.7	91	59	49	0.2	6.9	--	256	0.35
25...	59	2	2.8	120	96	72	0.3	8.2	385	375	0.52
SEP											
05...	79	2	2.8	137	100	100	0.3	8.4	--	450	0.61

K-Based on non-ideal colony count.

09106150 COLORADO RIVER BELOW GRAND VALLEY DIVERSION, NEAR PALISADE,CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	CADMIUM DIS- SOLVED (UG/L AS CD)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT											
04...	1500	--	--	--	--	--	--	--	<1	--	--
27...	1440	<1	<1	260	<1	20	4	0.1	<1	<0.2	<3
NOV											
10...	2860	--	--	--	--	--	--	--	<1	--	--
DEC											
21...	2440	--	--	--	--	--	--	--	1	--	--
JAN											
10...	2920	--	--	--	--	--	--	--	1	--	--
FEB											
14...	2600	--	--	--	--	--	--	--	1	--	--
MAR											
15...	3130	<1	<1	2500	<1	130	20	<0.1	1	<0.2	<10
APR											
19...	1120	--	--	--	--	--	--	--	1	--	--
MAY											
11...	2200	--	--	--	--	--	--	--	<1	--	--
JUN											
06...	9610	<1	<1	13000	<1	580	18	<0.1	<1	<0.2	<10
JUL											
17...	6920	--	--	--	--	--	--	--	<1	--	--
AUG											
08...	3300	--	--	--	--	--	--	--	<2	--	--
25...	3240	<1	2	25000	<1	700	1	<0.1	<1	<0.2	<10
SEP											
05...	1710	--	--	--	--	--	--	--	<1	--	--

K-Based on non-ideal colony count.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
MAY					JUL				
25...	1215	9320	411	10.0	18...	1643	15900	282	15.0
JUN									
17...	1455	29600	255	10.5					

09107000 TAYLOR RIVER AT TAYLOR PARK, CO

LOCATION.--Lat 38°51'37", long 108°33'58", 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 mi².

PERIOD OF RECORD.--June 1929 to September 1934, October 1987 to current year. Records for 1929-1934 provided by Colorado Division of Water Resources, published in WSP 1313. Statistical summary computed for 1988 to current year.

REVISED RECORDS.--WSP 1313: Drainage area.

GAGE.--Satellite data-collection platform. Elevation of gage is 9,340 ft above sea level, from topographic map. June 1929 to September 1934 water-stage recorder at different datum at site flooded by waters of Taylor Park Reservoir since 1937.

REMARKS.--Estimated daily discharges: Oct. 17, Nov. 16 to Feb. 8, Feb. 17-24, and Mar. 7-12. Records good except for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	56	50	39	40	34	36	46	386	865	373	152
2	81	57	50	30	42	34	34	56	445	847	341	146
3	68	56	49	27	41	33	35	53	474	820	318	142
4	64	53	49	39	40	33	36	58	557	753	306	135
5	64	50	48	39	40	34	38	69	624	665	303	130
6	72	57	48	41	40	33	41	71	722	691	282	125
7	74	57	49	41	40	35	42	77	649	774	262	151
8	67	60	43	41	40	33	45	70	629	852	256	175
9	64	54	42	36	34	30	47	68	589	913	246	155
10	63	51	38	41	34	30	40	80	528	938	228	141
11	61	54	35	38	33	31	34	105	561	953	225	133
12	61	60	30	36	31	32	41	111	696	997	220	124
13	59	55	35	35	29	34	42	90	811	980	208	116
14	57	49	40	37	30	33	47	113	898	963	212	115
15	65	41	45	36	35	34	41	205	972	865	201	111
16	66	45	44	35	40	37	40	246	1000	821	182	107
17	63	52	44	37	40	35	41	221	1120	830	177	104
18	63	54	45	36	41	36	38	204	1020	748	169	108
19	63	54	44	33	41	36	39	246	802	736	264	115
20	61	54	43	35	41	32	37	307	862	720	245	108
21	63	52	40	38	41	36	36	355	881	661	241	106
22	62	46	39	37	41	35	36	464	889	604	242	100
23	62	45	39	35	42	33	35	451	857	579	223	100
24	61	43	43	34	43	34	34	385	832	520	205	100
25	60	47	45	32	41	33	35	358	833	508	230	100
26	59	54	43	40	42	35	38	323	838	497	222	100
27	57	50	40	43	35	41	38	318	868	476	191	99
28	56	50	39	42	34	33	43	288	890	460	198	105
29	55	50	38	39	---	35	47	268	867	441	195	135
30	60	52	41	36	---	35	47	252	921	417	176	129
31	50	---	41	36	---	42	---	288	---	403	160	---
TOTAL	1973	1558	1319	1144	1071	1061	1183	6246	23021	22297	7301	3667
MEAN	63.6	51.9	42.5	36.9	38.2	34.2	39.4	201	767	719	236	122
MAX	92	60	50	43	43	42	47	464	1120	997	373	175
MIN	50	41	30	27	29	30	34	46	386	403	160	99
AC-FT	3910	3090	2620	2270	2120	2100	2350	12390	45660	44230	14480	7270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1995, BY WATER YEAR (WY)

	MEAN	51.9	43.1	38.1	34.2	33.5	38.0	70.7	234	406	209	90.9	64.5
MAX	66.4	51.9	42.5	39.0	38.2	47.0	117	351	767	719	236	122	
(WY)	1994	1995	1995	1988	1995	1988	1989	1993	1995	1995	1995	1995	
MIN	39.6	34.5	30.0	28.6	27.9	34.2	39.4	162	195	88.4	53.4	46.5	
(WY)	1989	1989	1989	1990	1994	1995	1995	1990	1992	1994	1994	1990	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1988 - 1995

ANNUAL TOTAL	36574	71841	
ANNUAL MEAN	100	197	110
HIGHEST ANNUAL MEAN			197
LOWEST ANNUAL MEAN			79.4
HIGHEST DAILY MEAN	690	Jun 1	1120
LOWEST DAILY MEAN	24	Feb 1	27
ANNUAL SEVEN-DAY MINIMUM	26	Feb 1	32
INSTANTANEOUS PEAK FLOW			1400
INSTANTANEOUS PEAK STAGE			4.08
ANNUAL RUNOFF (AC-FT)	72540	142500	79490
10 PERCENT EXCEEDS	290	721	276
50 PERCENT EXCEEDS	53	57	50
90 PERCENT EXCEEDS	31	35	33

a-Minimum daily discharge for period of record, 23 ft³/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, 16 mi northeast of Almont.

DRAINAGE AREA.--254 mi².

PERIOD OF RECORD.--October 1937 to current year. Prior to October 1938, published in WSP 1313.

REVISED RECORDS.--WSP 1089: 1940(M), 1942(M), 1945-46. WSP 1924: Drainage area.

GAGE.--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, 106,020 acre-ft, July 14, elevation, 9,329.90 ft; minimum contents, 42,260 acre-ft, May 31, elevation, 9,298.52 ft.

MONTHEND ELEVATION AND CONTENTS, AT 1800, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	9,311.50	72,300	-
Oct. 31.	9,309.60	69,260	-3,040
Nov. 30.	9,309.00	68,310	-950
Dec. 31.	-	-	-
CAL YR 1994.	-	-	-
Jan. 31.	-	-	-
Feb. 28.	-	-	-
Mar. 31.	-	-	-
Apr. 30.	-	-	-
May 31.	9,298.52	42,260	-
June 30.	9,325.40	97,100	+54,840
July 31.	9,326.90	100,020	+2,920
Aug. 31.	9,325.50	97,290	-2,730
Sept. 30.	9,316.80	81,230	-16,060
WTR YR 1995.	-	-	-

09109000 TAYLOR RIVER BELOW TAYLOR PARK RESERVOIR, CO

LOCATION.--Lat 38°49'06", long 106°36'31", Gunnison County, Hydrologic Unit 14020001, on bridge 1,000 ft downstream from Taylor Park Reservoir Dam, 3.4 mi upstream from Lottis Creek, and 17 mi northeast of Almont.

DRAINAGE AREA.--254 mi².

PERIOD OF RECORD.--June 1929 to September 1934 (monthly discharges only, published in WSP 1313), October 1938 to current year. Statistical summary computed for 1939 to current year.

REVISED RECORDS.--WSP 1924: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 9,169.67 ft above sea level, (levels by U.S. Bureau of Reclamation). Prior to Nov. 11, 1952, at site 1,600 ft downstream, at datum 1.00 ft, lower. Oct. 15, 1946, to May 4, 1952, supplementary nonrecording gage just downstream from reservoir outlet at different sites and datums used during winter months.

REMARKS.--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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	239	103	102	101	99	100	132	335	624	874	660	392
2	239	103	102	100	99	100	132	336	625	943	623	391
3	239	104	102	100	99	100	132	335	628	1080	586	388
4	238	103	102	100	99	100	132	334	632	1150	582	389
5	238	102	102	101	99	100	132	333	633	1190	584	411
6	241	102	103	100	99	100	132	334	551	1200	584	425
7	238	103	103	100	99	100	133	332	472	1200	585	479
8	239	104	103	100	98	100	133	346	570	1210	585	507
9	237	104	102	100	97	99	133	399	632	1220	586	507
10	238	103	102	100	97	99	133	446	632	1220	582	506
11	237	103	102	100	97	99	133	470	637	1250	545	505
12	237	103	103	100	97	99	132	468	592	1350	515	505
13	237	104	104	100	97	99	132	467	458	1440	512	506
14	237	102	102	100	97	99	133	465	396	1650	513	504
15	237	102	102	100	97	99	159	488	314	1820	511	502
16	214	103	104	100	97	99	179	536	267	1830	510	501
17	163	103	102	100	97	99	181	594	269	1670	510	501
18	116	103	102	100	99	97	205	653	268	1440	509	502
19	101	102	102	100	102	97	218	673	269	1380	510	501
20	101	103	102	100	102	97	218	673	300	1380	508	499
21	101	103	102	100	102	97	216	674	360	1280	487	499
22	101	102	102	100	102	98	216	672	436	1120	384	501
23	101	102	102	99	102	115	216	645	475	1070	347	499
24	101	102	103	99	102	131	216	626	476	1070	315	500
25	102	103	104	100	102	130	216	629	479	1020	353	499
26	102	103	104	100	102	130	277	628	520	948	351	498
27	102	102	103	100	101	131	336	631	622	825	349	498
28	103	102	100	100	100	132	338	626	700	774	348	497
29	103	102	100	100	---	132	337	628	743	777	347	463
30	103	102	100	99	---	132	337	627	792	782	348	442
31	103	---	100	99	---	132	---	626	---	740	366	---
TOTAL	5388	3082	3168	3098	2780	3342	5719	16029	15372	36903	15095	14317
MEAN	174	103	102	99.9	99.3	108	191	517	512	1190	487	477
MAX	241	104	104	101	102	132	338	674	792	1830	660	507
MIN	101	102	100	99	97	97	132	332	267	740	315	388
AC-FT	10690	6110	6280	6140	5510	6630	11340	31790	30490	73200	29940	28400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1995, BY WATER YEAR (WY)

	191	95.8	73.2	61.2	59.2	85.8	151	175	321	397	364	406
MEAN	191	95.8	73.2	61.2	59.2	85.8	151	175	321	397	364	406
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 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1939 - 1995
ANNUAL TOTAL	64103	124293	
ANNUAL MEAN	176	341	199
HIGHEST ANNUAL MEAN			341
LOWEST ANNUAL MEAN			94.8
HIGHEST DAILY MEAN	450	1830	2180
LOWEST DAILY MEAN	^a 94	^b 97	^c .00
ANNUAL SEVEN-DAY MINIMUM	94	97	.00
INSTANTANEOUS PEAK FLOW		1910	2270
INSTANTANEOUS PEAK STAGE		7.22	7.56
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (AC-FT)	127100	246500	144100
10 PERCENT EXCEEDS	308	673	488
50 PERCENT EXCEEDS	106	181	107
90 PERCENT EXCEEDS	97	100	15

a-Also occurred Apr 13, 15-18.

b-Also occurred Feb 10-17, Mar 18-21.

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 NW¹/4SE¹/4 sec.22, T.51 N., R.1 E., Gunnison County, Hydrologic Unit 14020001, on left bank at Almont, 15 ft downstream from bridge on State Highway 306, and 800 ft upstream from confluence with East River.

DRAINAGE AREA.--477 mi².

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.--Estimated daily discharges: Nov. 15 to Feb. 25. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	308	160	125	125	145	160	180	439	1100	1900	834	495
2	312	160	130	120	140	160	179	455	1120	1900	802	495
3	310	160	130	130	140	157	179	460	1130	1910	746	500
4	306	160	130	140	140	157	181	462	1230	1910	738	501
5	305	160	130	145	140	157	186	481	1330	1930	734	509
6	311	161	125	145	145	158	191	487	1400	1960	719	520
7	308	160	125	145	145	154	200	483	1320	2000	711	577
8	301	161	120	150	140	160	207	484	1360	2030	715	635
9	301	161	115	150	140	170	215	517	1410	2060	701	635
10	301	157	110	145	140	157	211	588	1330	2080	689	625
11	301	160	120	145	135	155	201	668	1330	2090	675	624
12	301	160	125	145	140	154	198	706	1440	2150	642	612
13	301	160	130	145	140	151	201	691	1480	2180	636	610
14	301	153	135	140	135	149	208	687	1580	2350	630	610
15	301	135	140	140	125	148	214	784	1650	2480	623	610
16	292	140	140	135	130	150	245	919	1610	2390	614	610
17	250	145	140	130	140	154	250	972	1890	2240	617	610
18	202	140	140	125	150	156	259	993	2000	1990	617	610
19	175	135	140	130	160	160	275	1030	1760	1860	634	610
20	170	125	140	140	160	157	275	1090	1850	1810	647	605
21	169	120	135	140	165	154	275	1160	1860	1710	647	603
22	165	120	135	135	165	154	275	1230	1800	1510	564	603
23	163	120	135	135	170	163	275	1210	1760	1400	522	603
24	163	120	135	140	165	193	272	1110	1670	1390	442	603
25	166	125	140	155	170	191	275	1090	1600	1330	484	603
26	166	125	135	155	173	186	309	1070	1580	1240	499	603
27	166	125	130	150	172	186	390	1060	1650	1080	489	603
28	166	120	130	140	165	182	400	1030	1720	1010	499	603
29	166	120	130	135	---	179	419	1020	1730	1000	515	587
30	166	120	135	130	---	181	444	1020	1880	989	487	570
31	163	---	135	140	---	181	---	1030	---	932	476	---
TOTAL	7476	4268	4065	4325	4175	5074	7589	25426	46570	54811	19348	17584
MEAN	241	142	131	140	149	164	253	820	1552	1768	624	586
MAX	312	161	140	155	173	193	444	1230	2000	2480	834	635
MIN	163	120	110	120	125	148	179	439	1100	932	442	495
AC-FT	14830	8470	8060	8580	8280	10060	15050	50430	92370	108700	38380	34880

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1995, BY WATER YEAR (WY)

	MEAN	244	156	121	109	108	133	248	600	927	574	416	395
MAX	699	518	424	240	288	456	784	1485	2419	1975	707	855	
(WY)	1969	1968	1966	1966	1971	1985	1970	1936	1914	1957	1960	1956	
MIN	60.3	53.3	39.8	40.8	35.2	34.6	55.8	129	109	168	83.2	91.6	
(WY)	1938	1938	1963	1941	1941	1938	1941	1940	1940	1931	1913	1937	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1910 - 1995

ANNUAL TOTAL	98867	200711										
ANNUAL MEAN	271	550										
HIGHEST ANNUAL MEAN												1995
LOWEST ANNUAL MEAN												1977
HIGHEST DAILY MEAN	766	Jun 2	2480	Jul 15	3600	Jun 9	1920					
LOWEST DAILY MEAN	^a 110	Feb 1	110	Dec 10	^b 24	Mar 12	1938					
ANNUAL SEVEN-DAY MINIMUM	117	Jan 29	120	Dec 6	^c 27	Feb 19	1941					
INSTANTANEOUS PEAK FLOW			2530	Jul 15	^c 3760	Jun 9	1920					
INSTANTANEOUS PEAK STAGE			4.92	Jul 15	^d 5.00	Jun 9	1920					
ANNUAL RUNOFF (AC-FT)	196100	398100	244100									
10 PERCENT EXCEEDS	542	1590	742									
50 PERCENT EXCEEDS	181	250	196									
90 PERCENT EXCEEDS	128	133	80									

a-Also occurred Dec 10.

b-Minimum discharge observed for period of record, before storage began in Taylor Park Reservoir, 50 ft³/s for several days in Aug 1913, gage height, 1.2 ft.

c-From rating curve extended above 2300 ft³/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 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)
OCT 28...	1325	166	140	8.4	6.5	9.6	<1	<1	<0.01
MAR 09...	1515	164	130	8.3	2.5	12.0	<1	<1	<0.01
JUN 13...	1815	1400	122	8.0	9.5	8.8	K5	K1	<0.01
AUG 10...	0830	686	104	8.2	9.5	8.3	K7	<1	<0.01

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CADMIUM DIS- SOLVED (UG/L AS CD)	COPPER, DIS- SOLVED (UG/L AS CU)
OCT 28...	<0.05	<0.015	<0.2	<0.01	<0.01	<1	<1
MAR 09...	0.07	<0.015	<0.2	<0.01	<0.01	<1	<1
JUN 13...	<0.05	0.020	<0.2	<0.01	<0.01	<1	<1
AUG 10...	<0.05	<0.015	<0.2	<0.01	<0.01	<1	<1

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 28...	90	<1	10	<10	<0.1	<1	<0.2	<10
MAR 09...	170	<1	20	<10	<0.1	<1	<0.2	<10
JUN 13...	440	<1	70	30	<0.1	<1	<0.2	<10
AUG 10...	150	<1	<10	<10	<0.1	<1	<0.2	<10

K-Based on non-ideal colony count

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 18...	1420	205	134	7.0	MAY 26...	1110	1060	113	4.0
DEC 20...	1530	147	150	0.5	JUN 14...	1255	1560	118	7.0
JAN 25...	1450	160	150	0.5	JUL 13...	1530	2110	94	11.0
MAR 22...	1355	155	124	5.5	AUG 29...	1505	505	110	13.5

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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1940 to September 1951, October 1993 to current year. Monthly discharges only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. 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.--Estimated daily discharges: Nov. 10 to Mar. 3, and June 4-14. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	29	21	13	15	20	35	95	430	1140	410	96
2	36	29	21	11	16	20	35	103	560	1060	374	91
3	30	28	21	12	16	20	38	96	660	1020	354	89
4	26	27	20	13	16	21	42	96	700	923	355	84
5	26	25	21	14	16	21	49	114	780	775	353	80
6	32	26	20	14	16	20	57	114	850	805	330	77
7	29	28	20	15	16	19	67	110	800	926	313	85
8	30	29	18	15	16	18	78	101	740	1010	317	98
9	32	27	15	15	16	18	87	93	650	1070	319	80
10	33	25	13	15	16	18	88	105	580	1080	288	73
11	35	25	12	15	16	20	81	134	540	1090	297	67
12	36	26	14	14	16	23	69	146	600	1090	295	61
13	36	26	14	15	15	26	76	120	800	1030	262	59
14	35	26	15	14	16	25	82	129	1000	1050	245	56
15	37	24	15	14	15	25	78	218	1330	887	212	54
16	37	23	15	14	13	26	73	309	1360	851	198	54
17	33	24	14	14	14	30	73	350	1390	821	177	52
18	34	25	14	13	16	34	72	361	1370	769	179	57
19	33	25	15	13	17	35	69	416	1220	751	188	53
20	31	24	16	14	17	34	65	506	1200	788	176	50
21	29	23	15	15	17	34	61	544	1220	741	173	45
22	30	20	15	14	17	35	60	600	1220	657	176	42
23	34	20	14	13	18	37	57	622	1180	602	181	41
24	34	20	15	13	18	35	56	576	1150	566	180	40
25	33	21	16	14	20	35	56	506	1110	542	156	39
26	33	22	15	15	21	36	59	427	1100	531	150	39
27	33	23	14	16	21	35	62	404	1120	505	161	38
28	32	23	15	16	21	34	73	333	1130	476	147	43
29	32	21	15	16	---	36	84	323	1120	475	137	76
30	32	20	15	15	---	36	98	321	1230	452	122	61
31	28	---	15	14	---	35	---	329	---	451	108	---
TOTAL	1010	734	498	438	467	861	1980	8701	29140	24934	7333	1880
MEAN	32.6	24.5	16.1	14.1	16.7	27.8	66.0	281	971	804	237	62.7
MAX	39	29	21	16	21	37	98	622	1390	1140	410	98
MIN	26	20	12	11	13	18	35	93	430	451	108	38
AC-FT	2000	1460	988	869	926	1710	3930	17260	57800	49460	14550	3730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

	MEAN	29.3	22.5	15.2	11.4	10.2	15.0	120	515	612	227	56.6	25.3
MAX	63.9	37.9	25.1	16.7	16.7	27.8	303	778	971	804	237	62.7	
(WY)	1942	1942	1994	1994	1995	1994	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1940 - 1995

ANNUAL TOTAL	42619	77976	
ANNUAL MEAN	117	214	142
HIGHEST ANNUAL MEAN			214
LOWEST ANNUAL MEAN			120
HIGHEST DAILY MEAN	896	Jun 1	1390
LOWEST DAILY MEAN	10	Feb 1	11
ANNUAL SEVEN-DAY MINIMUM	11	Feb 18	13
INSTANTANEOUS PEAK FLOW			1550
INSTANTANEOUS PEAK STAGE			5.84
ANNUAL RUNOFF (AC-FT)	84530	154700	103000
10 PERCENT EXCEEDS	454	793	525
50 PERCENT EXCEEDS	27	37	25
90 PERCENT EXCEEDS	14	15	10

09111500 SLATE RIVER NEAR CRESTED BUTTE CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD--March 1995 to September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
MAR 25...	0900	46	206	7.3	1.0	9.2	--	87	28	4.2	6.6
APR 18...	1200	76	177	7.7	4.0	9.2	<1	72	23	3.6	4.3
JUN 14...	0950	1150	72	7.6	4.5	9.7	K7	29	9.4	1.4	1.5
JUL 11...	0830	1080	60	7.7	4.0	9.2	K6	27	8.8	1.2	1.2
AUG 16...	1640	184	102	7.4	11.0	7.6	170	41	14	1.4	1.8
SEP 19...	1640	53	163	7.2	13.5	6.2	>2000	67	23	2.4	3.7

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
MAR 25...	0.3	0.9	56	34	3.1	0.3	7.2	122	120	0.17	15.2
APR 18...	0.2	0.7	54	26	1.8	0.2	6.5	108	100	0.15	22.2
JUN 14...	0.1	0.4	24	7.7	0.3	<0.1	5.4	51	41	0.07	158
JUL 11...	0.1	0.3	22	8.2	0.2	0.1	4.5	43	38	0.06	122
AUG 16...	0.1	0.4	27	17	0.3	0.2	4.3	56	56	0.08	27.9
SEP 19...	0.2	0.8	41	32	0.7	0.3	5.0	92	93	0.13	13.0

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
MAR 25...	<0.01	0.32	0.15	0.15	0.3	0.2	0.06	0.04	0.04	71	140
APR 18...	<0.01	0.18	0.05	--	<0.2	<0.2	0.04	0.01	0.01	69	130
JUN 14...	<0.01	0.08	0.02	--	<0.2	<0.2	0.02	<0.01	<0.01	72	27
JUL 11...	<0.01	0.07	0.02	--	<0.2	<0.2	0.02	<0.01	<0.01	63	15
AUG 16...	<0.01	0.07	0.03	--	<0.2	<0.2	<0.01	0.02	<0.01	45	21
SEP 19...	<0.01	0.08	0.06	--	<0.2	<0.2	0.02	0.01	0.02	55	30

K-Based on non-ideal colony count.

09111500 SLATE RIVER NEAR CRESTED BUTTE, CO.--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT					MAR				
19...	1110	32	170	5.0	23...	1005	36	212	--
NOV					APR				
28...	1505	24	189	0.5	12...	1015	71	180	2.0
DEC					MAY				
20...	1015	15	--	0.5	25...	1505	494	106	3.5
JAN					JUL				
26...	1020	15	230	0.5	12...	1230	979	63	8.5
FEB					AUG				
22...	1330	18	232	1.0	29...	1750	122	117	16.0

09112200 EAST RIVER BELOW CEMENT CREEK, NEAR CRESTED BUTTE, CO

LOCATION.--Lat 38°47'03", long 106°52'13", in NE¹/4NE¹/4 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 mi².

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.--Estimated daily discharges: Nov. 15 to Feb. 19, and Aug. 13-24. Records fair 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	100	59	40	44	79	74	254	1080	2440	1030	298
2	77	99	57	38	48	76	72	296	1300	2300	945	282
3	70	97	56	40	46	72	73	287	1470	2230	897	270
4	75	95	56	45	44	73	79	287	1640	2100	887	239
5	75	84	60	46	44	71	93	348	1830	1860	878	228
6	82	95	61	47	43	68	107	367	2080	1860	831	215
7	82	98	55	48	46	68	125	359	2010	2060	775	238
8	82	102	56	47	47	73	151	330	1990	2200	776	276
9	83	93	40	47	49	77	172	310	1760	2290	782	243
10	90	83	46	44	50	77	159	344	1510	2360	736	215
11	87	93	57	46	48	70	148	448	1590	2420	741	195
12	89	117	59	44	46	72	138	504	2070	2420	754	175
13	88	101	60	44	49	71	151	418	2610	2240	670	164
14	88	76	59	44	48	68	169	428	2880	2120	660	159
15	97	60	56	44	44	71	156	673	3070	1900	580	154
16	93	70	58	44	61	80	151	911	3140	1830	540	150
17	89	85	57	43	63	89	156	1040	3610	1770	490	143
18	90	76	60	38	61	94	154	1050	3530	1680	485	156
19	89	74	60	39	54	101	159	1130	3050	1630	480	156
20	83	75	59	43	50	93	146	1290	3160	1650	450	141
21	81	74	52	44	54	99	136	1360	3160	1610	440	129
22	80	74	46	43	53	95	127	1510	3050	1490	445	118
23	83	50	44	38	56	88	127	1510	3050	1420	450	116
24	83	60	46	36	61	98	124	1370	2870	1320	440	113
25	89	64	50	48	69	87	128	1260	2720	1300	420	107
26	103	58	50	50	75	86	141	1100	2640	1290	407	105
27	102	60	46	52	77	83	147	1100	2650	1240	418	104
28	100	56	43	50	79	83	177	946	2680	1200	408	117
29	98	58	40	46	---	79	217	935	2640	1190	382	202
30	101	60	46	40	---	67	261	938	2670	1130	349	186
31	91	---	44	41	---	73	---	892	---	1130	320	---
TOTAL	2700	2387	1638	1359	1509	2481	4218	23995	73510	55680	18866	5394
MEAN	87.1	79.6	52.8	43.8	53.9	80.0	141	774	2450	1796	609	180
MAX	103	117	61	52	79	101	261	1510	3610	2440	1030	298
MIN	70	50	40	36	43	67	72	254	1080	1130	320	104
AC-FT	5360	4730	3250	2700	2990	4920	8370	47590	145800	110400	37420	10700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1995, BY WATER YEAR (WY)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	112	85.5	70.5	60.8	57.6	66.1	224	956	1344	609	225	142																				
MAX	188	115	96.2	83.2	76.0	111	404	1432	2450	1796	609	271																				
(WY)	1966	1971	1966	1971	1971	1972	1971	1970	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	1964	1964	1964	1964	1981	1981	1981	1981	1994																				

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1964 - 1995

ANNUAL TOTAL	97664	193737	
ANNUAL MEAN	268	531	330
HIGHEST ANNUAL MEAN			531
LOWEST ANNUAL MEAN			162
HIGHEST DAILY MEAN	1800	Jun 1	3610
LOWEST DAILY MEAN	^c 40	Dec 9	36
ANNUAL SEVEN-DAY MINIMUM	46	Dec 23	40
INSTANTANEOUS PEAK FLOW			4350
INSTANTANEOUS PEAK STAGE			^a 5.06
ANNUAL RUNOFF (AC-FT)	193700	384300	239100
10 PERCENT EXCEEDS	1040	1860	1040
50 PERCENT EXCEEDS	80	101	104
90 PERCENT EXCEEDS	51	46	54

a-Maximum gage height, 5.31 ft, Jun 16, prior to channel scour during peak.

b-Maximum gage height for period of record, 8.30 ft, Jun 12, 1980, from floodmarks, site and datum then in use.

c-Also occurred Dec 29.

09112200 EAST RIVER BELOW CEMENT CREEK NEAR CRESTED BUTTE, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1993 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1995 to September 1995.

WATER TEMPERATURES: May 1995 to September 1995.

DISSOLVED OXYGEN: May 1995 to September 1995

INSTRUMENTATION.--Water-quality monitor with satellite telemetry since May 1995.

REMARKS.--Daily maximum and minimum specific conductance data available in district office. Daily specific conductance data are good. Daily water temperature data are good. Daily dissolved oxygen data are fair

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 299 microsiemens Sep. 28; minimum, 125 microsiemens June 22.

WATER TEMPERATURES: Maximum, 15.8°C, Aug. 26 (may have been higher during periods of missing record); minimum, 1.7°C May 25.

DISSOLVED OXYGEN: Maximum, 10.4 mg/L Sep. 23 (may have been higher during periods of missing record); minimum 7.1 mg/L June 20 (may have been lower during periods of missing record).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML)
OCT 28...	0805	102	278	8.3	2.5	--	10.7	--	K5	K6
MAR 10...	0920	120	296	8.6	0.5	--	12.0	--	<1	<1
25...	1235	85	276	8.9	3.0	--	9.9	--	--	--
APR 17...	1450	158	263	8.9	6.0	--	9.4	--	--	--
JUN 13...	1230	2570	153	8.0	8.5	18	8.8	--	55	66
16...	1210	3030	140	7.8	7.0	--	8.7	--	--	--
JUL 12...	1415	2360	145	8.2	11.5	7.2	8.3	0.6	K6	--
AUG 09...	1500	739	179	8.1	10.0	1.8	8.4	1.5	K8	K8
SEP 20...	1230	142	278	8.2	8.5	0.40	8.2	1.0	K6	--

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- ^a LIVITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- ^b LIVITY LAB (MG/L AS CACO3)
OCT 28...	--	--	--	--	--	--	--	--	--
MAR 10...	--	--	--	--	--	--	--	--	--
25...	140	45	7.6	5.1	0.2	1.2	--	--	110
APR 17...	120	39	6.5	4.1	0.2	0.8	--	--	102
JUN 13...	74	23	3.9	1.6	0.1	0.5	--	--	67
16...	66	21	3.3	1.4	0.1	0.6	65	54	--
JUL 12...	69	22	3.3	1.3	0.1	0.5	--	--	63
AUG 09...	83	27	3.9	1.6	0.1	0.5	--	--	72
SEP 20...	130	41	6.8	3.1	0.1	0.9	--	--	109

K-Based on non-ideal colony count.

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

b-Lab total dissolved alkalinity, determined by fixed end-point method.

09112200 EAST RIVER BELOW CEMENT CREEK NEAR CRESTED BUTTE, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

		SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)			
	DATE												
	OCT 28...	--	--	--	--	--	--	--	--	<0.01			
	MAR 10...	--	--	--	--	--	--	--	--	<0.01			
	25...	34	2.1	0.2	7.1	170	169	0.23	39.0	<0.01			
	APR 17...	30	1.4	0.1	6.7	153	150	0.21	65.3	--			
	JUN 13...	9.6	0.3	0.1	5.5	92	85	0.13	638	<0.01			
	16...	8.7	0.6	<0.1	5.2	80	73	0.11	654	<0.01			
	JUL 12...	10	0.3	<0.1	4.6	83	80	0.11	529	<0.01			
	AUG 09...	16	0.2	<0.1	4.7	101	97	0.14	202	<0.01			
	SEP 20...	32	0.7	<0.1	6.2	163	156	0.22	62.5	<0.01			
		NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)			
	DATE												
	OCT 28...	<0.05	<0.02	--	<0.20	--	<0.01	<0.01	--	--			
	MAR 10...	0.16	0.02	--	<0.20	--	0.02	<0.01	--	--			
	25...	0.06	<0.02	<0.20	<0.20	<0.01	0.01	<0.01	--	--			
	JUN 13...	0.09	0.02	<0.20	<0.20	0.01	<0.01	<0.01	--	--			
	16...	0.09	0.02	0.30	<0.20	0.09	0.01	<0.01	2.8	1.3			
	JUL 12...	<0.05	0.02	<0.20	<0.20	<0.01	<0.01	<0.01	--	--			
	AUG 09...	<0.05	<0.02	<0.20	<0.20	0.02	<0.01	<0.01	--	--			
	SEP 20...	0.06	<0.02	<0.20	<0.20	<0.01	<0.01	<0.01	--	--			
	DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	CADMIUM DIS- SOLVED (UG/L AS CD)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)
	OCT 28...	--	<1	<1	70	--	<1	<10	<10	<0.1	<1	<0.2	10
	MAR 10...	--	--	--	--	--	--	--	--	--	--	<0.2	--
	25...	--	--	--	--	<3	--	--	9	--	--	--	--
	APR 17...	--	--	--	--	29	--	--	26	--	--	--	--
	JUN 13...	60	<1	1	1600	41	<1	120	10	<0.1	<1	<0.2	<10
	16...	--	--	--	--	56	--	--	11	--	--	--	--
	JUL 12...	50	--	--	--	35	--	--	8	--	--	--	--
	AUG 09...	<10	<1	<1	290	14	<1	<10	10	<0.1	<1	<0.2	<10
	SEP 20...	--	--	--	--	14	--	--	5	--	--	--	--

09112200 EAST RIVER BELOW CEMENT CREEK NEAR CRESTED BUTTE, CO--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
JUN					JUL				
13...	1230	2570	33	229	12...	1415	2360	58	370
16...	1210	3030	241	1970					

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	208	149	166	---
2	---	---	---	---	---	---	---	---	191	154	172	---
3	---	---	---	---	---	---	---	---	183	156	176	---
4	---	---	---	---	---	---	---	---	176	162	177	---
5	---	---	---	---	---	---	---	---	171	170	177	---
6	---	---	---	---	---	---	---	---	163	166	181	---
7	---	---	---	---	---	---	---	---	165	155	188	---
8	---	---	---	---	---	---	---	---	164	148	188	---
9	---	---	---	---	---	---	---	---	171	143	185	---
10	---	---	---	---	---	---	---	---	179	142	194	---
11	---	---	---	---	---	---	---	---	176	141	195	---
12	---	---	---	---	---	---	---	---	166	141	187	---
13	---	---	---	---	---	---	---	---	153	142	196	---
14	---	---	---	---	---	---	---	---	148	142	194	267
15	---	---	---	---	---	---	---	---	143	149	194	269
16	---	---	---	---	---	---	---	---	139	149	194	269
17	---	---	---	---	---	---	---	---	142	150	---	272
18	---	---	---	---	---	---	---	---	142	156	---	269
19	---	---	---	---	---	---	---	---	148	154	---	269
20	---	---	---	---	---	---	---	---	148	150	---	276
21	---	---	---	---	---	---	---	---	146	151	---	280
22	---	---	---	---	---	---	---	---	141	155	---	287
23	---	---	---	---	---	---	---	---	143	156	---	289
24	---	---	---	---	---	---	---	---	183	147	---	290
25	---	---	---	---	---	---	---	---	187	149	207	292
26	---	---	---	---	---	---	---	201	150	158	208	294
27	---	---	---	---	---	---	---	203	147	160	207	294
28	---	---	---	---	---	---	---	213	145	162	206	294
29	---	---	---	---	---	---	---	216	146	162	---	272
30	---	---	---	---	---	---	---	216	147	164	---	264
31	---	---	---	---	---	---	---	221	---	163	---	---

09112200 EAST RIVER BELOW CEMENT CREEK NEAR CRESTED BUTTE, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	11.7	3.1	8.9	4.7	13.1	6.2	---	---
2	---	---	---	---	8.7	3.2	10.0	4.3	13.0	6.3	---	---
3	---	---	---	---	9.6	2.4	7.4	4.7	13.0	6.5	---	---
4	---	---	---	---	8.2	3.4	9.0	4.3	13.0	7.9	---	---
5	---	---	---	---	11.2	3.1	12.2	3.9	13.7	7.4	---	---
6	---	---	---	---	9.0	2.6	12.4	4.8	13.0	6.9	---	---
7	---	---	---	---	10.1	2.2	11.8	5.0	12.4	7.7	---	---
8	---	---	---	---	8.0	3.0	12.7	4.9	14.0	7.9	---	---
9	---	---	---	---	8.9	2.3	12.6	5.1	12.5	7.7	---	---
10	---	---	---	---	10.2	2.9	12.6	5.2	13.0	7.3	---	---
11	---	---	---	---	11.6	2.7	12.6	5.1	14.6	9.1	---	---
12	---	---	---	---	12.1	3.1	12.6	5.2	13.0	8.5	---	---
13	---	---	---	---	11.2	3.2	11.6	5.2	14.2	8.9	---	---
14	---	---	---	---	11.6	3.2	9.3	5.6	12.6	8.6	13.1	7.9
15	---	---	---	---	9.6	4.2	12.9	5.2	14.2	7.6	14.4	7.2
16	---	---	---	---	9.3	3.5	12.9	5.2	12.4	8.2	14.2	7.3
17	---	---	---	---	7.9	4.4	10.7	6.1	---	---	13.2	7.4
18	---	---	---	---	11.3	2.5	8.7	6.4	---	---	12.6	8.2
19	---	---	---	---	11.6	3.0	11.8	5.4	---	---	12.7	6.9
20	---	---	---	---	12.1	3.3	12.0	5.5	---	---	10.7	7.0
21	---	---	---	---	11.9	3.4	10.6	5.2	---	---	11.6	6.2
22	---	---	---	---	11.9	3.4	12.0	5.2	---	---	10.2	3.7
23	---	---	---	---	11.0	3.5	11.9	5.5	---	---	10.3	3.3
24	---	---	7.4	1.8	11.7	3.6	12.5	5.5	---	---	9.5	6.1
25	---	---	5.5	1.7	11.6	3.6	12.9	5.5	14.1	9.7	10.3	3.6
26	---	---	7.6	1.9	12.3	3.9	13.0	5.6	15.8	8.8	9.9	4.4
27	---	---	7.7	2.4	11.1	4.0	13.1	5.4	13.8	10.3	11.8	5.9
28	---	---	6.4	1.9	9.8	4.4	13.5	6.0	14.9	9.7	9.5	7.3
29	---	---	5.2	2.9	9.3	4.5	12.0	6.6	---	---	8.3	6.2
30	---	---	7.0	2.5	7.5	5.1	11.9	6.7	---	---	8.8	4.9
31	---	---	10.8	3.6	---	---	13.1	6.8	---	---	---	---
MONTH	---	---	---	---	12.3	2.2	13.5	3.9	---	---	---	---

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	9.3	7.3	9.4	8.1	9.9	7.8	---	---
2	---	---	---	---	9.2	7.9	9.6	7.9	9.9	7.8	---	---
3	---	---	---	---	9.4	7.7	9.5	8.5	10.0	7.9	---	---
4	---	---	---	---	9.1	8.0	9.6	8.0	9.7	7.9	---	---
5	---	---	---	---	9.2	7.3	9.9	7.3	9.8	7.9	---	---
6	---	---	---	---	9.2	7.7	9.6	7.2	10.0	7.7	---	---
7	---	---	---	---	9.4	7.5	9.5	7.4	9.7	7.9	---	---
8	---	---	---	---	9.1	7.9	9.7	7.5	9.6	7.6	---	---
9	---	---	---	---	9.4	7.8	9.6	7.5	9.7	7.8	---	---
10	---	---	---	---	9.2	7.6	9.7	7.5	9.4	7.5	---	---
11	---	---	---	---	9.3	7.3	9.7	7.4	9.0	7.4	---	---
12	---	---	---	---	9.2	7.2	9.7	7.5	9.2	7.7	---	---
13	---	---	---	---	9.1	7.8	9.7	7.7	8.9	7.3	---	---
14	---	---	---	---	9.9	7.8	9.5	8.4	8.9	7.7	9.1	7.7
15	---	---	---	---	9.6	8.1	10.0	7.9	9.2	7.5	9.2	7.5
16	---	---	---	---	9.7	8.1	10.0	8.0	9.2	7.9	9.2	7.4
17	---	---	---	---	9.1	8.3	9.7	8.5	---	---	9.2	7.5
18	---	---	---	---	10.0	7.5	9.6	8.9	---	---	8.9	7.9
19	---	---	---	---	9.8	7.4	9.8	8.0	---	---	9.3	7.8
20	---	---	---	---	9.7	7.1	9.9	8.0	---	---	9.2	8.1
21	---	---	---	---	9.7	7.3	9.9	8.3	---	---	9.4	8.0
22	---	---	---	---	9.7	7.3	9.9	7.9	---	---	10.3	8.4
23	---	---	---	---	9.7	7.6	9.8	7.9	---	---	10.4	8.5
24	---	---	9.8	8.3	9.7	7.5	9.8	7.7	---	---	9.5	8.6
25	---	---	9.8	8.8	9.7	7.4	9.8	7.7	8.7	7.8	10.3	8.3
26	---	---	9.7	8.2	9.6	7.3	9.8	7.9	9.0	7.6	10.0	8.4
27	---	---	9.6	8.2	9.7	7.5	10.3	8.0	8.7	7.8	9.5	8.0
28	---	---	9.7	8.5	9.4	7.8	10.1	8.0	8.8	7.7	9.1	8.4
29	---	---	9.4	8.7	9.5	8.0	9.9	8.3	---	---	9.3	8.7
30	---	---	9.5	8.3	9.3	8.5	9.8	8.2	---	---	9.9	8.6
31	---	---	9.2	7.6	---	---	9.8	7.9	---	---	---	---
MONTH	---	---	---	---	10.0	7.1	10.3	7.2	---	---	---	---

LOCATION.--Lat 38°39'52", long 106°50'51", in NW¹/4SE¹/4 sec.22, T.51 N., R.1 E., Gunnison County, Hydrologic Unit 14020001, on left bank at Almont, 200 ft upstream from bridge on State Highway 135, and 400 ft upstream from confluence with Taylor River.

WATER-DISCHARGE RECORDS

REVISED RECORDS.--WSP 1313: 1911. WSP 1733: 1952. WSP 1924: Drainage area.

REMARKS.--Estimated daily discharges: Nov. 17 to Feb. 7, June 10-14, and Aug. 31 to Sept. 14. Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 7,400 acres upstream from station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	100	63	42	51	81	81	285	1090	2900	1030	330
2	102	105	60	40	54	78	85	320	1330	2660	956	310
3	92	100	59	42	51	74	86	314	1510	2540	917	290
4	95	98	59	48	50	74	93	306	1720	2340	930	270
5	95	86	64	49	51	72	108	361	1940	1940	942	240
6	102	93	65	50	53	72	123	384	2380	1870	900	260
7	104	99	59	51	55	69	137	383	2280	2100	839	280
8	101	102	60	50	56	72	164	356	2280	2320	828	300
9	100	94	41	50	59	75	187	336	1980	2530	834	280
10	108	81	50	47	60	73	169	361	1630	2590	775	250
11	109	87	60	48	57	71	157	467	1800	2650	768	233
12	112	115	63	47	54	75	152	551	2400	2650	790	224
13	109	104	64	46	48	75	166	461	2700	2520	712	215
14	107	80	63	47	47	72	187	440	3000	2560	707	205
15	116	65	59	48	39	74	173	674	3320	2220	626	202
16	114	78	62	47	57	82	167	926	3520	2090	596	194
17	109	90	61	46	65	91	173	1070	3680	2000	550	183
18	108	80	63	40	63	97	168	1090	4020	1840	533	186
19	107	78	64	41	53	104	176	1160	3390	1770	549	195
20	102	77	63	47	54	99	163	1350	3250	1770	547	178
21	106	78	56	48	54	103	153	1440	3310	1700	512	170
22	104	79	50	47	54	104	142	1640	3270	1550	501	155
23	104	52	47	42	56	95	143	1630	3110	1480	503	149
24	107	63	50	40	60	104	138	1470	2980	1350	507	149
25	105	68	53	51	67	94	145	1360	2850	1300	506	146
26	116	63	54	43	76	92	163	1180	2750	1280	465	142
27	115	62	50	55	77	86	168	1170	2810	1240	471	141
28	114	60	47	54	80	90	195	1020	2850	1180	460	143
29	108	62	43	50	---	89	232	978	2860	1170	431	196
30	106	64	49	44	---	74	295	993	3070	1120	397	209
31	100	---	47	47	---	76	---	926	---	1100	355	---
TOTAL	3276	2463	1748	1447	1601	2587	4689	25402	79080	60330	20437	6425
MEAN	106	82.1	56.4	46.7	57.2	83.5	156	819	2636	1946	659	214
MAX	116	115	65	55	80	104	295	1640	4020	2900	1030	330
MIN	92	52	41	40	39	69	81	285	1090	1100	355	141
AC-FT	6500	4890	3470	2870	3180	5130	9300	50380	156900	119700	40540	12740

MEAN	116	95.0	73.4	62.1	59.3	67.4	247	1017	1384	574	237	130
MAX	279	172	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

ANNUAL TOTAL	101562		209485				
ANNUAL MEAN	278		574		339		
HIGHEST ANNUAL MEAN					574		1995
LOWEST ANNUAL MEAN					104		1977
HIGHEST DAILY MEAN	1770	Jun 1	4020	Jun 18	5000		Jun 12 1918
LOWEST DAILY MEAN	41	Dec 9	39	Feb 15	19		Aug 13 1913
ANNUAL SEVEN-DAY MINIMUM	49	Dec 25	44	Jan 18	21		Jan 15 1940
INSTANTANEOUS PEAK FLOW			4430	Jun 18	a 6500		Jun 15 1921
INSTANTANEOUS PEAK STAGE			8.41	Jun 18	6.60		Jun 15 1921
ANNUAL RUNOFF (AC-FT)	201400		415500		245800		
10 PERCENT EXCEEDS	1050		2040		1060		
50 PERCENT EXCEEDS	99		114		107		
90 PERCENT EXCEEDS	55		50		55		

a-Site and datum then in use, from rating curve extended above 3000 ft³/s.

GUNNISON RIVER BASIN

09112500 EAST RIVER AT ALMONT, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD--October 1990 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 28...	1045	118	294	8.6	5.0	--	10.0	--	K2
MAR 09...	1255	93	306	8.6	2.5	--	12.0	--	<1
25...	1330	93	285	8.9	2.5	--	11.0	--	--
APR 17...	1500	171	272	8.4	5.5	--	10.4	--	--
JUN 13...	1520	1970	171	8.2	11.0	15	8.0	--	130
JUL 13...	0900	2710	161	8.1	7.5	12	9.9	0.8	K30
AUG 10...	1045	815	199	8.4	11.0	1.6	8.1	2.3	K28
SEP 20...	1410	178	290	7.8	11.0	0.40	8.3	0.2	<1

DATE	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)
OCT 28...	K1	--	--	--	--	--	--	--
MAR 09...	<1	--	--	--	--	--	--	--
25...	--	150	46	7.9	4.7	0.2	1.0	117
APR 17...	--	140	43	7.1	4.2	0.2	0.9	111
JUN 13...	56	83	26	4.3	1.9	0.1	0.6	75
JUL 13...	--	75	24	3.6	1.4	0.1	0.8	70
AUG 10...	K28	93	30	4.5	1.8	0.1	0.5	82
SEP 20...	--	140	45	7.3	3.3	0.1	0.9	118

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT 28...	--	--	--	--	--	--	--	--
MAR 09...	--	--	--	--	--	--	--	--
25...	31	2.0	0.2	6.9	158	170	0.21	39.7
APR 17...	32	1.5	0.2	6.6	172	162	0.23	79.4
JUN 13...	11	0.4	0.1	6.0	102	96	0.14	543
JUL 13...	10	0.4	<0.1	4.9	93	87	0.13	680
AUG 10...	17	0.3	<0.1	4.9	110	108	0.15	242
SEP 20...	30	0.8	0.1	6.6	164	165	0.22	78.8

K-Based on non-ideal colony count.

09112500 EAST RIVER AT ALMONT, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT 28...	<0.01	<0.05	0.02	--	<0.2	--	<0.01	<0.01
MAR 09...	<0.01	0.06	0.02	--	<0.2	--	<0.01	<0.01
MAR 25...	<0.01	<0.05	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01
JUN 13...	<0.01	0.08	0.02	0.2	<0.2	0.02	<0.01	<0.01
JUL 13...	<0.01	0.05	0.03	<0.2	<0.2	0.02	<0.01	<0.01
AUG 10...	<0.01	<0.05	<0.02	<0.2	<0.2	0.03	<0.01	<0.01
SEP 20...	<0.01	0.07	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	CADMIUM DIS- SOLVED (UG/L AS CD)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 28...	--	<1	<1	30	--	<1	<10	<10	<0.1	<1	<0.2	<10
MAR 09...	--	<1	<1	90	--	<1	<10	<10	<0.1	<1	<0.2	<10
MAR 25...	--	--	--	--	<3	--	--	3	--	--	--	--
APR 17...	--	--	--	--	10	--	--	10	--	--	--	--
JUN 13...	50	<1	1	680	39	<1	40	9	<0.1	<1	<0.2	<10
JUL 13...	40	--	--	--	40	--	--	11	--	--	--	--
AUG 10...	10	<1	<1	170	9	<1	<10	9	<0.1	<1	<0.2	<10
SEP 20...	--	--	--	--	11	--	--	5	--	--	--	--

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 19...	1505	106	309	9.0	MAY 23...	1525	1530	203	7.0
DEC 20...	1350	77	330	0.5	JUL 14...	1015	2630	165	7.0
FEB 22...	0955	48	346	1.0	AUG 28...	1805	440	237	16.0
APR 12...	1515	129	276	9.5					

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
JUN 13...	1520	1970	120	638	AUG 10...	1045	815	6	13
JUL 13...	0900	2710	75	549					

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 mi².

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.--Estimated daily discharges: Nov. 4 to Apr. 11, and July 14 to Sept. 21. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	6.3	5.4	3.5	4.8	5.5	6.4	18	95	241	92	34
2	15	6.2	5.4	3.0	4.8	5.5	6.3	18	113	219	88	31
3	11	6.8	5.3	3.6	4.7	5.4	6.3	17	120	212	85	25
4	9.5	6.6	5.3	4.0	4.6	5.2	6.4	17	124	180	82	21
5	9.2	6.6	5.2	4.4	4.6	5.1	6.5	20	162	147	77	19
6	12	6.5	5.4	4.5	4.6	4.8	6.7	20	154	160	72	17
7	10	6.5	5.5	4.6	4.6	4.8	7.0	19	148	189	72	21
8	11	6.6	5.1	4.5	4.6	4.9	8.0	17	142	231	71	28
9	11	6.6	4.0	4.6	4.6	5.0	8.6	16	130	270	66	24
10	10	6.8	3.3	4.6	4.6	5.2	9.4	17	124	277	61	21
11	9.3	6.8	3.5	4.3	4.6	5.6	9.0	21	133	282	58	20
12	8.5	6.9	4.4	4.2	4.6	5.4	8.0	22	162	267	54	17
13	8.0	6.9	4.5	4.1	4.5	5.5	9.0	19	195	255	48	16
14	7.9	6.7	5.0	4.3	4.6	5.7	9.9	22	253	210	46	15
15	8.8	6.6	5.1	4.2	4.2	5.8	9.1	37	287	200	45	13
16	8.4	6.4	5.0	4.2	3.7	5.7	8.8	46	222	190	41	12
17	8.0	6.5	4.9	4.2	4.0	5.5	9.1	52	378	180	36	11
18	7.9	7.2	4.7	4.0	4.5	5.3	8.7	58	414	170	34	13
19	7.9	7.2	4.7	3.8	4.8	5.5	8.9	65	241	160	63	14
20	7.8	6.9	4.8	4.4	5.0	5.8	8.5	79	253	150	80	13
21	7.5	6.6	4.8	4.5	5.0	5.8	8.3	90	264	140	78	13
22	7.5	6.1	4.6	4.4	5.1	5.8	8.0	106	255	130	72	13
23	7.6	5.6	4.4	3.8	5.2	5.7	7.7	107	242	125	68	13
24	7.3	4.8	4.8	3.8	5.3	6.0	7.9	100	232	120	63	13
25	7.0	5.0	4.9	4.5	5.4	6.4	8.1	88	222	115	60	12
26	6.9	5.5	4.8	5.2	5.5	6.9	8.5	69	230	110	53	12
27	6.7	5.6	4.5	5.0	5.6	6.3	9.5	67	246	105	51	12
28	6.7	5.2	4.3	4.7	5.6	6.4	12	62	249	100	50	12
29	6.5	5.1	4.3	4.7	---	6.6	14	57	224	100	47	17
30	6.8	5.1	4.7	4.6	---	6.5	17	54	288	97	43	7.9
31	6.1	---	4.6	4.0	---	6.4	---	62	---	95	38	---
TOTAL	272.8	188.2	147.2	132.2	133.7	176.0	261.6	1462	6302	5427	1894	509.9
MEAN	8.80	6.27	4.75	4.26	4.77	5.68	8.72	47.2	210	175	61.1	17.0
MAX	15	7.2	5.5	5.2	5.6	6.9	17	107	414	282	92	34
MIN	6.1	4.8	3.3	3.0	3.7	4.8	6.3	16	95	95	34	7.9
AC-FT	541	373	292	262	265	349	519	2900	12500	10760	3760	1010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1995, BY WATER YEAR (WY)

	MEAN	8.53	6.31	5.51	5.13	5.27	6.19	12.6	78.0	169	100	37.8	13.0
MAX	11.1	7.19	6.30	5.95	5.74	7.42	20.6	103	210	175	61.1	17.0	
(WY)	1994	1994	1994	1994	1994	1994	1994	1993	1995	1995	1995	1995	1995
MIN	5.66	5.47	4.75	4.26	4.77	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	1994

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1993 - 1995

ANNUAL TOTAL	8845.0	16906.6	
ANNUAL MEAN	24.2	46.3	37.4
HIGHEST ANNUAL MEAN			46.3
LOWEST ANNUAL MEAN			24.6
HIGHEST DAILY MEAN	168	414	414
LOWEST DAILY MEAN	3.3	3.0	3.0
ANNUAL SEVEN-DAY MINIMUM	4.3	3.9	3.9
INSTANTANEOUS PEAK FLOW		982	982
INSTANTANEOUS PEAK STAGE		6.45	6.45
ANNUAL RUNOFF (AC-FT)	17540	33530	27110
10 PERCENT EXCEEDS	86	161	124
50 PERCENT EXCEEDS	7.7	8.3	7.8
90 PERCENT EXCEEDS	5.4	4.5	5.0

09114500 GUNNISON RIVER NEAR GUNNISON, CO

LOCATION.--Lat 38°32'31", long 106°56'57", in NW¹/4NW¹/4 sec.2, T.49 N., R.1 W., Gunnison County, Hydrologic Unit 14020002, on right bank 0.7 mi downstream from Antelope Creek and 1.2 mi west of Gunnison.

DRAINAGE AREA.--1,012 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1910 to December 1928, October 1944 to current year. Monthly discharges only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1313: 1911, 1916.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,655 ft above sea level, from topographic map. Nov. 25, 1910 to Dec. 31, 1928, nonrecording gages (supplementary water-stage recorder Apr. 28, 1916 to June 17, 1918) at bridge about 0.6 mi downstream at various datums. Oct. 1, 1944 to July 28, 1970, water-stage recorder at sites 0.4 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Nov. 16 to Feb. 22. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	440	272	225	198	218	285	324	1070	2260	5840	2350	982
2	489	276	220	190	218	285	331	1090	2640	5230	2200	946
3	517	279	220	195	215	277	342	1080	2910	5140	2050	924
4	506	279	220	210	210	266	381	1040	3160	4960	2020	882
5	508	275	225	218	208	256	414	1130	3500	4500	2030	873
6	505	271	233	210	205	244	459	1150	4030	4280	1940	871
7	505	278	218	215	205	201	513	1120	3820	4580	1810	907
8	502	289	200	210	200	203	555	1040	4020	4840	1760	1020
9	490	294	188	210	200	217	595	1050	3860	5170	1750	996
10	490	264	170	208	200	221	508	1140	3470	5240	1670	914
11	490	261	180	200	198	244	468	1320	3390	5280	1680	862
12	488	303	195	200	200	245	446	1490	3760	5340	1680	844
13	475	310	200	197	200	237	463	1340	4070	5320	1580	816
14	475	274	208	195	205	235	520	1280	4560	5600	1510	800
15	478	246	210	195	180	243	502	1670	5070	5300	1410	798
16	480	255	210	190	190	258	516	2140	5300	5080	1340	785
17	445	268	200	186	200	302	536	2370	5700	4950	1310	769
18	388	268	200	175	230	348	535	2450	6720	4640	1260	767
19	342	262	196	180	230	399	568	2580	5720	4540	1300	790
20	329	258	196	198	238	386	559	2910	5280	4270	1370	783
21	319	245	185	200	240	405	536	3080	5410	4060	1310	766
22	319	235	190	195	240	430	510	3350	5580	3680	1210	744
23	319	220	190	188	255	392	505	3260	5570	3490	1170	744
24	319	235	198	185	257	445	495	2850	5390	3290	1120	744
25	316	240	210	212	263	411	510	2660	5240	3180	1130	744
26	305	225	205	210	283	391	586	2340	5120	3040	1090	744
27	305	215	200	208	282	361	721	2290	5180	2860	1100	754
28	305	210	198	200	285	378	788	2090	5410	2710	1080	771
29	303	217	195	190	---	361	882	2020	5490	2650	1040	821
30	298	225	205	180	---	302	1100	2110	6130	2610	989	842
31	289	---	212	210	---	314	---	2000	---	2560	972	---
TOTAL	12739	7749	6302	6158	6255	9542	16168	58510	137760	134230	46231	25003
MEAN	411	258	203	199	223	308	539	1887	4592	4330	1491	833
MAX	517	310	233	218	285	445	1100	3350	6720	5840	2350	1020
MIN	289	210	170	175	180	201	324	1040	2260	2560	972	744
AC-FT	25270	15370	12500	12210	12410	18930	32070	116100	273200	266200	91700	49590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1995, BY WATER YEAR (WY)

	MEAN	400	299	235	209	201	250	609	1831	2529	1300	744	549
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1911 - 1995

ANNUAL TOTAL	213014	466647	
ANNUAL MEAN	584	1278	765
HIGHEST ANNUAL MEAN			1278
LOWEST ANNUAL MEAN			256
HIGHEST DAILY MEAN	a 2610	Jun 1	6720
LOWEST DAILY MEAN	b 170	Jan 31	170
ANNUAL SEVEN-DAY MINIMUM	182	Jan 28	188
INSTANTANEOUS PEAK FLOW			7620
INSTANTANEOUS PEAK STAGE			5.56
ANNUAL RUNOFF (AC-FT)	422500	925600	554000
10 PERCENT EXCEEDS	1600	4270	1920
50 PERCENT EXCEEDS	342	490	392
90 PERCENT EXCEEDS	200	200	177

a-Also occurred Jun 2.

b-Also occurred Dec 10.

c-Site and datum then in use, from rating curve extended above 5000 ft³/s, gage height, 4.05 ft.

d-Site and datum then in use.

09114500 GUNNISON RIVER NEAR GUNNISON, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD--April to September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
APR 19...	1440	431	197	8.3	5.5	12.6	2.0	<1	91	27
JUN 19...	1500	5580	156	8.0	10.0	8.3	--	K54	76	23
JUL 14...	0815	5580	137	8.0	8.5	8.8	0.3	K40	65	20
AUG 11...	1130	1720	161	8.1	12.5	7.8	1.2	67	75	23
SEP 21...	1545	762	176	8.1	12.0	8.3	2.6	K9	83	25

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
APR 19...	5.8	3.9	0.2	0.9	83	17	0.9	0.1	9.5	120
JUN 19...	4.4	2.2	0.1	0.9	71	7.9	0.6	<0.1	8.7	99
JUL 14...	3.6	1.7	0.1	0.6	62	7.3	0.4	<0.1	7.4	82
AUG 11...	4.2	2.0	0.1	0.7	70	11	0.2	<0.1	7.4	91
SEP 21...	5.1	2.4	0.1	0.8	78	11	0.4	<0.1	7.7	99

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
APR 19...	115	0.16	140	<0.01	0.05	0.04	--	<0.2	<0.2	<0.01
JUN 19...	91	0.13	1490	<0.01	0.07	0.02	0.28	0.3	<0.2	0.12
JUL 14...	78	0.11	1240	<0.01	<0.05	0.02	--	<0.2	<0.2	0.03
AUG 11...	91	0.12	423	<0.01	<0.05	<0.02	--	<0.2	<0.2	0.02
SEP 21...	100	0.13	204	<0.01	0.06	<0.02	--	<0.2	<0.2	0.04

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CADMIUM DIS- SOLVED (UG/L AS CD)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 19...	0.02	<0.01	--	--	--	43	--	--	13	--
JUN 19...	0.02	<0.01	<1	<1	2300	76	<1	150	15	<10
JUL 14...	<0.01	<0.01	<1	<1	950	68	<1	80	15	<10
AUG 11...	<0.01	<0.01	<1	<1	220	48	<1	20	21	<10
SEP 21...	0.03	0.03	<1	<1	140	51	<1	30	20	<10

K-Based on non-ideal colony count.

09114500 GUNNISON RIVER NEAR GUNNISON, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT					JUN				
21...	1025	321	202	4.0	15...	1615	5260	147	7.5
DEC					22...	1555	5570	145	10.5
22...	1035	189	232	0.5	JUL				
FEB					11...	1840	4820	139	13.5
22...	1620	231	202	3.5	AUG				
APR					30...	1430	1000	178	15.5
13...	0940	451	185	4.0					
MAY									
22...	1315	3180	156	6.5					

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)
JUN					JUL				
19...	1500	5580	144	2170	14...	0815	5580	81	1220

09115500 TOMICHI CREEK AT SARGENTS, CO

LOCATION.--Lat 38°24'42", long 106°25'20", in SW¹/4SW¹/4 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 mi².

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.--Estimated daily discharges: Nov. 6 to Apr. 11. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	28	18	11	16	19	26	72	238	471	97	43
2	34	27	18	15	16	19	26	83	292	418	88	43
3	30	27	18	15	16	19	28	85	343	394	88	43
4	29	26	18	16	16	18	33	82	405	369	85	41
5	29	26	18	16	16	17	38	91	452	323	82	40
6	33	25	18	15	16	16	50	89	518	308	80	40
7	31	25	16	16	16	16	58	83	559	304	77	44
8	31	25	12	16	16	17	50	87	559	293	75	55
9	30	25	11	15	16	18	45	85	534	283	68	49
10	30	25	14	14	16	19	39	82	502	276	69	54
11	29	27	15	15	16	24	40	98	475	271	68	46
12	29	27	17	15	16	23	54	116	518	262	67	42
13	28	26	17	14	15	24	62	113	586	245	66	45
14	27	22	17	14	12	26	65	105	668	249	65	46
15	31	23	16	14	14	28	56	136	702	235	64	46
16	29	25	16	14	15	33	56	184	710	209	60	44
17	28	25	16	12	16	38	58	214	785	211	63	44
18	28	25	16	15	17	40	53	198	838	205	60	44
19	29	23	15	15	17	38	55	192	732	188	62	44
20	28	21	15	15	18	39	52	214	700	178	64	43
21	28	18	15	14	18	38	51	251	671	165	58	46
22	27	21	16	13	19	36	48	292	643	155	53	45
23	27	22	17	15	20	33	48	298	606	146	52	45
24	27	19	16	17	20	30	47	275	558	136	50	45
25	27	17	15	18	20	28	50	262	512	131	57	45
26	27	17	14	17	20	27	60	255	488	122	59	44
27	26	17	14	16	20	26	60	245	471	113	51	43
28	26	17	16	15	19	25	65	225	444	108	49	42
29	26	18	15	15	---	24	68	232	438	103	57	51
30	26	18	12	17	---	25	83	250	507	101	48	51
31	26	---	10	16	---	25	---	223	---	98	44	---
TOTAL	894	687	481	465	472	808	1524	5217	16454	7070	2026	1353
MEAN	28.8	22.9	15.5	15.0	16.9	26.1	50.8	168	548	228	65.4	45.1
MAX	38	28	18	18	20	40	83	298	838	471	97	55
MIN	26	17	10	11	12	16	26	72	238	98	44	40
AC-FT	1770	1360	954	922	936	1600	3020	10350	32640	14020	4020	2680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 1995, BY WATER YEAR (WY)

MEAN	31.3	27.5	23.3	21.4	21.8	27.3	67.9	199	205	67.0	40.0	29.4
MAX	48.9	38.0	30.7	34.0	34.9	50.3	139	382	588	255	128	59.5
(WY)	1971	1994	1962	1962	1962	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 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1917 - 1995

ANNUAL TOTAL	18043	37451	
ANNUAL MEAN	49.4	103	63.4
HIGHEST ANNUAL MEAN			122
LOWEST ANNUAL MEAN			26.8
HIGHEST DAILY MEAN	257	May 18	838
LOWEST DAILY MEAN	10	Dec 31	10
ANNUAL SEVEN-DAY MINIMUM	14	Dec 25	13
INSTANTANEOUS PEAK FLOW			964
INSTANTANEOUS PEAK STAGE		4.03	Jun 18
ANNUAL RUNOFF (AC-FT)	35790	74280	45960
10 PERCENT EXCEEDS	117	295	156
50 PERCENT EXCEEDS	29	38	30
90 PERCENT EXCEEDS	18	15	18

a-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 SW¹/4NE¹/4 sec.17, T.47 N., R.2 E. Saguache County, Hydrologic Unit 14020003, on left bank 0.75 mi downstream from Rock Creek and 12 mi southeast of Parlin.

DRAINAGE AREA.--334 mi².

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

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,470 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 15 to Jan. 20, and Feb. 20 to Mar. 24. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	26	18	17	14	23	30	54	67	240	63	91
2	27	28	19	15	15	23	30	53	71	217	61	89
3	23	28	19	11	15	23	30	53	79	180	67	86
4	22	29	19	15	15	23	34	49	80	201	78	81
5	21	26	19	16	14	23	42	53	95	181	91	75
6	23	29	19	16	15	22	48	53	97	155	87	75
7	23	31	19	17	16	22	53	50	98	140	87	85
8	22	30	19	17	15	20	60	48	98	139	87	97
9	21	28	18	17	16	19	59	47	96	140	98	88
10	20	25	15	17	16	20	44	47	88	153	117	86
11	19	27	12	16	16	22	36	52	85	161	115	77
12	19	29	13	16	16	25	40	58	90	153	123	70
13	19	26	16	15	16	27	49	60	113	149	122	67
14	19	27	18	15	17	27	52	58	139	149	114	66
15	21	23	19	15	17	29	48	68	172	149	106	63
16	22	22	18	15	16	32	44	103	205	134	98	58
17	21	22	18	16	15	38	43	110	224	127	98	57
18	20	23	18	16	14	42	40	108	283	128	93	57
19	19	24	18	13	14	42	40	82	240	129	100	67
20	20	23	18	15	19	43	37	75	209	120	110	60
21	21	22	18	17	19	43	38	73	219	114	109	56
22	21	21	17	16	20	42	37	86	200	105	105	46
23	21	19	17	15	21	38	38	100	192	101	103	45
24	22	17	18	14	22	34	37	97	187	88	112	44
25	21	17	18	15	23	34	37	96	164	80	117	50
26	21	18	18	15	24	31	41	91	161	71	144	53
27	20	19	18	15	24	29	42	83	154	67	138	55
28	20	19	17	15	23	29	42	76	153	66	130	51
29	20	18	17	15	---	30	45	74	173	66	127	58
30	23	18	17	14	---	31	57	88	238	67	113	57
31	25	---	17	13	---	30	---	78	---	65	99	---
TOTAL	663	714	544	474	487	916	1273	2223	4470	4035	3212	2010
MEAN	21.4	23.8	17.5	15.3	17.4	29.5	42.4	71.7	149	130	104	67.0
MAX	27	31	19	17	24	43	60	110	283	240	144	97
MIN	19	17	12	11	14	19	30	47	67	65	61	44
AC-FT	1320	1420	1080	940	966	1820	2520	4410	8870	8000	6370	3990

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1995, BY WATER YEAR (WY)

	MEAN	36.5	30.6	23.3	20.7	21.4	32.2	55.3	88.8	99.8	58.7	66.5	46.0
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	21.0	22.1	16.8	
(WY)	1990	1993	1982	1982	1982	1982	1990	1989	1989	1994	1994	1981	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1981 - 1995

ANNUAL TOTAL	9079	21021	
ANNUAL MEAN	24.9	57.6	48.6
HIGHEST ANNUAL MEAN			106
LOWEST ANNUAL MEAN			24.8
HIGHEST DAILY MEAN	57	Apr 24	283
LOWEST DAILY MEAN	12	Dec 11	11
ANNUAL SEVEN-DAY MINIMUM	15	Feb 13	14
INSTANTANEOUS PEAK FLOW			342
INSTANTANEOUS PEAK STAGE			3.49
INSTANTANEOUS LOW FLOW			Jun 18
ANNUAL RUNOFF (AC-FT)	18010	41700	35200
10 PERCENT EXCEEDS	36	129	95
50 PERCENT EXCEEDS	23	37	34
90 PERCENT EXCEEDS	17	16	16

GUNNISON RIVER BASIN

09119000 TOMICHI CREEK AT GUNNISON, CO

LOCATION.--Lat 38°31'18", long 106°56'25", in NE¹/4SW¹/4 sec.11, T.49 N., R.1 W., Gunnison County, Hydrologic Unit 14020003, on right bank 300 ft downstream from highway bridge, 1.8 mi southwest of Post Office in Gunnison, and 2.0 mi upstream from mouth.

DRAINAGE AREA.--1,061 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November and December 1910 (gage heights and discharge measurements only), October 1937 to current year. Monthly discharges only for some periods, published in WSP 1313. Published as "near Gunnison" 1910.

REVISED RECORDS.--WSP 2124: Drainage area. WDR CO-86-2: 1985.

GAGE.--Satellite data-collection platform. 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.--Estimated daily discharges: Nov. 3 to Mar. 22, and June 23 to July 12. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	86	73	50	62	77	136	267	577	1200	303	188
2	92	90	72	35	61	76	136	250	501	1120	289	171
3	76	88	72	45	59	76	136	282	566	1150	276	163
4	71	90	72	56	57	75	139	280	662	1175	278	158
5	64	92	72	55	56	77	151	273	833	1150	276	135
6	75	93	72	56	56	74	164	302	942	940	270	135
7	78	93	71	59	56	72	173	285	1060	860	258	141
8	73	100	63	59	56	70	188	270	1110	690	252	182
9	69	103	56	59	56	68	212	273	1140	720	243	190
10	66	104	50	59	56	68	205	273	1120	760	254	183
11	65	102	41	58	60	72	163	265	1070	820	250	177
12	64	102	45	58	61	82	158	296	1040	860	234	164
13	64	105	54	57	61	105	177	357	1060	878	246	153
14	67	105	64	56	60	100	199	321	1180	866	241	150
15	71	100	66	55	58	92	193	280	1370	879	232	148
16	78	89	61	55	48	99	175	283	1580	792	220	143
17	81	93	62	55	52	110	171	410	1750	700	206	138
18	79	96	62	56	56	125	168	535	2220	717	193	135
19	78	97	62	48	60	145	164	503	2340	698	197	142
20	76	95	62	50	64	170	175	425	2060	649	225	140
21	84	89	60	55	66	170	174	433	1840	608	217	133
22	89	82	56	55	68	185	162	474	1750	555	211	130
23	84	74	60	54	70	210	156	541	1660	496	206	125
24	85	62	62	47	76	192	156	600	1500	483	203	125
25	87	73	63	62	78	163	152	601	1450	431	211	127
26	86	76	60	65	76	150	166	575	1300	399	228	129
27	85	74	58	66	78	142	182	526	1225	361	255	135
28	83	70	56	66	79	141	179	506	1200	338	245	138
29	81	69	54	64	---	139	183	512	1300	336	235	147
30	85	68	58	64	---	138	210	587	1350	326	222	161
31	88	---	60	63	---	137	---	639	---	325	204	---
TOTAL	2409	2660	1899	1742	1746	3600	5103	12424	38756	22282	7380	4486
MEAN	77.7	88.7	61.3	56.2	62.4	116	170	401	1292	719	238	150
MAX	92	105	73	66	79	210	212	639	2340	1200	303	190
MIN	64	62	41	35	48	68	136	250	501	325	193	125
AC-FT	4780	5280	3770	3460	3460	7140	10120	24640	76870	44200	14640	8900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1995, BY WATER YEAR (WY)

MEAN	93.2	102	76.8	66.0	68.8	111	245	401	485	200	160	92.1
MAX	209	158	117	116	98.0	279	564	2073	1481	859	440	318
(WY)	1970	1971	1987	1971	1986	1939	1942	1984	1984	1957	1957	1970
MIN	33.5	62.4	45.8	37.1	36.2	59.8	56.5	22.4	51.8	42.5	51.5	99.2
(WY)	1964	1951	1964	1979	1979	1981	1967	1977	1977	1955	1977	1956

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1938 - 1995

ANNUAL TOTAL	38557			104487					
ANNUAL MEAN	106			286				175	
HIGHEST ANNUAL MEAN								478	1984
LOWEST ANNUAL MEAN								60.4	1977
HIGHEST DAILY MEAN	427	Jun	3	2340	Jun	19		4040	May 26 1984
LOWEST DAILY MEAN	17	Jul	8	35	Jan	2		2.6	Sep 30 1977
ANNUAL SEVEN-DAY MINIMUM	36	Jul	6	51	Jan	1		7.6	May 4 1967
INSTANTANEOUS PEAK FLOW				2420	Jun	18		4620	May 23 1984
INSTANTANEOUS PEAK STAGE				5.14	Jun	18		5.49	May 23 1984
ANNUAL RUNOFF (AC-FT)	76480			207200				126900	
10 PERCENT EXCEEDS	181			844				393	
50 PERCENT EXCEEDS	78			137				98	
90 PERCENT EXCEEDS	56			58				54	

09119000 TOMICHI CREEK AT GUNNISON, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD--October 1990 to September 1993, April to September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

		DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	
APR 19...	1145	165	243	8.1	5.5	9.4	2.6	K2	100	29	
JUN 19...	1300	2370	233	8.0	16.0	6.8	--	150	100	28	
JUL 13...	1455	888	205	8.1	16.5	6.0	0.8	K40	95	27	
AUG 11...	0835	260	218	8.3	16.0	7.5	1.4	93	97	28	
SEP 21...	1315	133	247	8.4	12.5	9.3	2.5	230	110	32	
DATE		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
APR 19...	7.4	7.7	0.3	1.9	105	17	1.7	1.7	0.4	18	154
JUN 19...	8.2	8.2	0.4	2.6	103	13	1.4	1.4	0.3	21	170
JUL 13...	6.7	4.4	0.2	1.1	97	8.0	1.0	1.0	0.3	16	131
AUG 11...	6.5	5.2	0.2	1.6	99	9.2	0.8	0.8	0.2	19	131
SEP 21...	8.0	6.4	0.3	2.0	116	11	1.4	1.4	0.2	18	146
DATE		SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)
APR 19...	146	0.21	68.6	<0.01	<0.05	<0.02	0.20	0.20	0.2	<0.2	0.04
JUN 19...	145	0.23	1090	<0.01	<0.05	<0.02	0.40	0.40	0.4	0.5	0.05
JUL 13...	123	0.18	314	<0.01	<0.05	0.02	0.28	0.28	0.3	0.2	0.04
AUG 11...	130	0.18	92.0	<0.01	<0.05	<0.02	0.30	0.30	0.3	<0.2	0.06
SEP 21...	149	0.20	52.4	<0.01	<0.05	<0.02	--	--	<0.2	<0.2	0.03
DATE		PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	CADMIUM DIS-SOLVED (UG/L AS CD)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	ZINC, DIS-SOLVED (UG/L AS ZN)
APR 19...	0.02	0.02	--	--	--	160	160	--	--	38	--
JUN 19...	0.04	0.03	<1	2	550	190	<1	<1	30	15	<10
JUL 13...	0.02	<0.01	<1	1	570	180	<1	<1	70	35	<10
AUG 11...	0.03	0.03	<1	<1	650	110	<1	<1	70	16	<10
SEP 21...	0.02	0.03	<1	<1	270	110	<1	<1	30	21	<10

K-Based on non-ideal colony count.

09119000 TOMICHI CREEK AT GUNNISON, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT					JUN				
21...	0845	90	350	3.0	16...	0840	1580	237	12.0
NOV					23...	1010	1700	205	14.5
30...	0910	75	--	0.5	JUL				
JAN					12...	1050	887	206	15.5
24...	1645	64	274	0.5	AUG				
MAR					30...	1320	222	210	18.0
23...	1200	232	253	5.0					
MAY									
24...	1755	607	224	12.5					

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)
JUN					AUG				
19...	1300	2370	15	96	11...	0835	260	13	9.1

09124500 LAKE FORK AT GATEVIEW, CO

LOCATION.--Lat 38°17'56", long 107°13'46", in SE¹/4NE¹/4 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 mi².

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.--Estimated daily discharges: Nov.26 to Mar.22. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143	87	42	38	37	45	62	108	311	1580	617	296
2	140	81	44	27	39	45	61	114	524	1350	585	281
3	135	83	46	27	39	43	58	122	713	1320	557	270
4	134	80	47	37	38	46	61	122	798	1130	519	251
5	137	73	47	38	38	45	65	130	848	926	482	238
6	140	81	47	38	37	42	73	132	1110	930	470	233
7	138	80	46	39	37	40	76	130	1130	1160	450	234
8	135	78	43	39	37	43	81	133	1020	1340	434	238
9	132	75	40	39	38	47	93	133	949	1460	423	241
10	130	72	35	39	39	54	91	131	882	1660	356	235
11	127	74	30	38	39	66	83	152	949	1670	398	227
12	126	84	32	38	39	68	80	211	1280	1630	424	219
13	122	74	37	39	38	60	85	180	1580	1520	470	205
14	121	66	39	39	37	66	90	159	1790	1350	435	202
15	125	53	40	40	35	70	92	175	1910	1240	403	183
16	121	87	42	40	30	76	90	244	2100	1270	371	172
17	119	79	42	40	28	82	89	274	2130	1210	344	167
18	120	73	41	38	30	86	85	258	1780	1060	329	163
19	116	78	41	35	32	90	84	278	1390	1050	317	155
20	114	72	40	37	35	90	81	329	1530	1090	357	146
21	112	73	39	38	36	90	78	436	1710	1030	371	145
22	109	73	38	37	40	88	79	594	1750	945	409	138
23	106	60	38	35	45	84	79	723	1730	844	420	133
24	105	55	40	39	45	81	75	697	1730	771	401	129
25	101	60	40	41	45	76	74	623	1760	768	384	125
26	100	58	41	42	46	72	81	511	1730	758	373	127
27	98	56	38	41	45	65	80	425	1720	731	378	127
28	96	50	37	40	45	69	85	370	1600	712	387	121
29	94	47	37	37	---	65	89	340	1680	709	376	132
30	92	45	38	32	---	60	108	312	1650	689	348	137
31	84	---	39	30	---	58	---	281	---	646	322	---
TOTAL	3672	2107	1246	1157	1069	2012	2408	8827	41784	34549	12910	5670
MEAN	118	70.2	40.2	37.3	38.2	64.9	80.3	285	1393	1114	416	189
MAX	143	87	47	42	46	90	108	723	2130	1670	617	296
MIN	84	45	30	27	28	40	58	108	311	646	317	121
AC-FT	7280	4180	2470	2290	2120	3990	4780	17510	82880	68530	25610	11250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1995, BY WATER YEAR (WY)

	MEAN	93.1	67.9	52.1	45.9	43.4	55.8	132	532	990	490	206	129
MAX	242	143	75.7	66.5	71.0	102	339	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1938 - 1995

ANNUAL TOTAL	67705	117411		
ANNUAL MEAN	185	322		
HIGHEST ANNUAL MEAN			237	
LOWEST ANNUAL MEAN			413	1984
HIGHEST DAILY MEAN	1510	Jun 4	2130	Jun 17
LOWEST DAILY MEAN	30	Dec 11	b27	Jan 2
ANNUAL SEVEN-DAY MINIMUM	36	Dec 9	32	Feb 15
INSTANTANEOUS PEAK FLOW			2270	Jun 16
INSTANTANEOUS PEAK STAGE			4.77	Jun 16
ANNUAL RUNOFF (AC-FT)	134300	232900		
10 PERCENT EXCEEDS	627	1100		
50 PERCENT EXCEEDS	91	94		
90 PERCENT EXCEEDS	42	38		

a-Datum then in use, gage height, 4.18 ft.

b-Also occurred Jan 3.

09125800 SILVER JACK RESERVOIR NEAR CIMARRON, CO

LOCATION.--Lat 38°13'58", long 107°32'28", in T.46 N., R. 6 W., Gunnison County, Hydrologic Unit 14020002, in gate house of Silver Jack Dam on Cimarron River, 14.5 mi south of Cimarron.

DRAINAGE AREA.--59 mi².

PERIOD OF RECORD.--October 1987 to current year.

REVISED RECORDS.--WDR CO-92-2: 1991 minimum contents.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8925.60 ft. above sea level, (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations above sea level.

REMARKS.--Reservoir is formed by an earthfill dam. Storage began in December 1970; dam completed December 1971. Capacity, 13,520 acre-ft, 1971 survey, between elevation 8,800.0 ft, streambed at dam, and 8,925.6 ft, crest of spillway. Dead storage below elevation 8,836.0, 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 and 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, 13,550 acre-ft, June 15 and 16, elevation, 8,927.45 ft; minimum contents, 1,880 acre-ft, Oct. 25, elevation, 8,865.35 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	8,865.52	1,900	-
Oct. 31.	8,866.70	2,010	+110
Nov. 30.	8,871.06	2,470	+460
Dec. 31.	8,872.82	2,670	+200
CAL YR 1994.	-	-	-3,490
Jan. 31.	8,873.15	2,710	+40
Feb. 28.	8,873.61	2,760	+50
Mar. 31.	8,876.55	3,110	+350
Apr. 30.	8,883.40	4,020	+910
May 31.	8,912.85	9,610	+5,590
June 30.	8,926.91	13,390	+3,780
July 31.	8,926.10	13,150	-240
Aug. 31.	8,925.37	12,940	-210
Sept. 30.	8,905.87	8,030	-4,910
WTR YR 1995.	-	-	+6,090

09126000 CIMARRON RIVER NEAR CIMARRON, CO

LOCATION.--Lat 38°15'36", long 107°32'43", in NW¹/4NE¹/4 sec.8, T.46 N., R.6 W., Gunnison County, Hydrologic Unit 14020002, on right bank 100 ft upstream from Forest Service bridge, 0.6 mi upstream from headgate on Cimarron ditch, 2.1 mi downstream from Silver Jack Dam, and 13 mi south of Cimarron.

DRAINAGE AREA.--66.6 mi².

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 8,631.48 ft above sea level. Prior to Oct. 12, 1972, at site 0.2 mi downstream, at different datum.

REMARKS.--Estimated daily discharges: Oct. 18 to Apr. 10. Records good except those 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, 2.1 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	24	17	13	15	18	17	26	108	920	296	124
2	45	23	17	12	15	17	18	29	119	788	267	121
3	38	23	17	13	16	17	18	29	118	769	251	118
4	38	23	17	13	15	17	19	28	135	684	237	130
5	38	23	17	14	16	17	19	29	161	591	230	141
6	39	23	17	14	16	17	20	30	149	607	225	140
7	40	23	17	15	15	16	21	29	478	703	210	139
8	41	23	17	14	15	15	22	29	683	789	205	139
9	40	23	16	14	15	14	23	27	604	924	208	137
10	40	22	14	14	16	15	23	28	511	1050	184	136
11	39	23	14	15	16	16	20	30	549	993	207	135
12	39	22	14	15	15	18	22	32	968	955	207	134
13	39	21	15	14	16	17	24	30	1120	872	227	134
14	40	20	15	15	15	16	24	32	1000	786	198	134
15	41	20	15	14	15	17	21	39	1160	814	176	133
16	40	20	15	14	14	18	21	44	1330	772	154	133
17	41	21	15	14	15	20	21	40	1250	689	143	133
18	42	22	15	14	16	20	20	42	1030	627	133	135
19	42	22	14	13	16	20	20	46	900	605	136	134
20	41	21	14	13	16	21	20	53	996	564	190	134
21	39	20	14	14	16	21	20	60	1030	521	230	135
22	39	19	14	14	17	21	19	66	1000	468	252	134
23	38	18	15	14	17	21	20	61	912	420	217	134
24	36	16	15	13	17	22	20	55	936	394	161	133
25	35	16	16	14	18	21	20	51	937	395	161	132
26	25	17	15	15	18	20	21	46	938	388	192	132
27	25	16	14	17	18	20	23	57	938	371	182	132
28	25	15	14	16	18	19	24	92	819	360	223	83
29	24	15	15	16	---	19	25	92	981	358	170	48
30	24	15	15	15	---	18	27	93	977	336	146	45
31	23	---	14	14	---	18	---	96	---	321	132	---
TOTAL	1143	609	473	439	447	566	632	1441	22837	19834	6150	3772
MEAN	36.9	20.3	15.3	14.2	16.0	18.3	21.1	46.5	761	640	198	126
MAX	47	24	17	17	18	22	27	96	1330	1050	296	141
MIN	23	15	14	12	14	14	17	26	108	321	132	45
AC-FT	2270	1210	938	871	887	1120	1250	2860	45300	39340	12200	7480

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1995, BY WATER YEAR (WY)

	MEAN	50.0	23.1	16.7	14.9	14.9	16.4	23.5	157	436	231	117	73.0
MAX	135	46.9	31.7	30.0	29.4	35.3	46.5	421	799	640	239	126	
(WY)	1983	1986	1974	1974	1986	1986	1987	1984	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1971 - 1995

ANNUAL TOTAL	29385.4	58343	a97.9	
ANNUAL MEAN	80.5	160	180	1984
HIGHEST ANNUAL MEAN			40.2	1977
LOWEST ANNUAL MEAN				
HIGHEST DAILY MEAN	593	Jun 1	1330	Jun 16 1995
LOWEST DAILY MEAN	9.4	Jan 31	12	Jan 2
ANNUAL SEVEN-DAY MINIMUM	10	Jan 27	13	Dec 31
INSTANTANEOUS PEAK FLOW			1530	Jun 16
INSTANTANEOUS PEAK STAGE			5.45	Jun 16
ANNUAL RUNOFF (AC-FT)	58290	115700	70940	
10 PERCENT EXCEEDS	259	615	265	
50 PERCENT EXCEEDS	24	25	30	
90 PERCENT EXCEEDS	11	15	10	

a-Average discharge for 16 years (water years 1955-70), 88.6 ft³/s; 64190 acre-ft/yr, prior to completion of Silver Jack Dam.

b-Also occurred Dec 25-31, 1970, and Jan 1-9, 1971. Result of storage in Silver Jack Dam.

c-Minimum daily discharge prior to construction of Silver Jack Dam, 8.0 ft³/s, Dec 27, 28, 1962, and Jan 13, 1963.

d-Maximum discharge and stage for period of record, 1790 ft³/s, Jun 28, 1957, gage height, 8.32 ft, site and datum then in use.

e-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 mi².

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.--Estimated daily discharges: Jan. 20-25. Records good except for estimated daily discharges, which are poor. 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 Uncompahgre Valley Water Users Association.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	604	570	883	777	658	595	1480	3170	4570	6890	3760	1090
2	610	574	881	778	658	662	1480	3180	4680	6990	3290	1090
3	607	578	880	782	658	660	1650	3220	4830	8650	3130	1150
4	632	577	881	782	662	663	1690	3290	4840	8960	3130	698
5	616	575	881	782	662	667	1680	3340	5090	8850	3150	412
6	566	576	882	782	653	672	1700	3380	5020	9210	3230	827
7	536	581	881	782	626	671	1740	3410	4640	8880	3070	1190
8	542	585	869	782	651	672	1720	3410	4820	7930	2590	1250
9	557	582	795	781	654	819	1640	3440	4710	7930	2320	1230
10	564	581	675	777	659	945	1610	3490	4260	8430	2350	1250
11	565	584	635	758	652	1030	1630	3500	4320	8870	2080	1240
12	566	584	632	702	654	1230	1630	3570	4560	8930	1790	1320
13	560	582	630	686	651	1290	1630	3600	4700	9160	1720	1030
14	559	580	718	678	616	1290	1570	3600	4170	8990	1690	328
15	564	581	768	671	591	1260	1530	3600	4250	8890	1620	1010
16	564	625	767	667	650	1240	1510	3600	4040	8780	1250	1180
17	565	766	771	619	648	1280	1740	3590	3590	8600	1090	1180
18	568	881	777	602	652	1290	2180	3720	3450	8460	1060	1190
19	559	877	777	678	653	1300	2350	4300	3460	8420	1040	1170
20	560	876	777	676	675	1300	2520	4470	3620	8110	1030	921
21	556	876	777	674	674	1310	2720	4810	5240	7120	996	306
22	557	874	783	671	670	1440	2880	4880	5520	6180	1000	333
23	561	876	779	668	669	1480	3050	4850	5390	6040	1010	609
24	562	873	781	665	662	1520	3170	4730	5350	5850	1020	608
25	566	874	776	662	662	1500	2570	4690	5340	4980	1040	602
26	565	876	775	660	662	1490	2400	4620	5300	4330	1050	604
27	563	878	775	659	662	1490	2960	4640	5320	4210	1100	603
28	571	878	766	656	613	1500	3200	4620	5100	4110	1060	779
29	575	878	754	656	---	1480	3170	4590	5540	4070	1050	1480
30	566	884	778	658	---	1480	3170	4610	7030	4050	1050	1560
31	575	---	776	658	---	1510	---	4550	---	4000	1050	---
TOTAL	17681	21482	24280	21829	18257	35736	63970	122470	142750	224870	55816	28240
MEAN	570	716	783	704	652	1153	2132	3951	4758	7254	1801	941
MAX	632	884	883	782	675	1520	3200	4880	7030	9210	3760	1560
MIN	536	570	630	602	591	595	1480	3170	3450	4000	996	306
AC-FT	35070	42610	48160	43300	36210	70880	126900	242900	283100	446000	110700	56010
a	25050	0	0	0	0	0	31550	42960	32150	37400	60740	54820

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1995, BY WATER YEAR (WY)

	MEAN	528	729	771	763	757	849	1305	3241	4137	1553	666	476
MAX	2114	1888	2165	2732	3153	3278	3282	8611	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1911 - 1995

ANNUAL TOTAL	282842	777381	
ANNUAL MEAN	775	2130	1315
HIGHEST ANNUAL MEAN			2936
LOWEST ANNUAL MEAN			261
HIGHEST DAILY MEAN	3160	May 24	18600
LOWEST DAILY MEAN	302	Jul 31	b,00
ANNUAL SEVEN-DAY MINIMUM	338	Jul 28	.30
INSTANTANEOUS PEAK FLOW			c,19000
INSTANTANEOUS PEAK STAGE			15.80
ANNUAL RUNOFF (AC-FT)	561000	1542000	952700
10 PERCENT EXCEEDS	1120	5000	3200
50 PERCENT EXCEEDS	690	1040	580
90 PERCENT EXCEEDS	470	579	183

a-Diversions, in acre-feet, through Gunnison tunnel, provided by Uncompahgre Valley Water Users Association.

b-Also occurred Sep 26, 1936, Oct 8, 1949, Sep 5, 6, 15, 16, 1950.

c-Present datum, from rating curve extended above 14000 ft³/s.

09128000 GUNNISON RIVER BELOW GUNNISON TUNNEL, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1994 to September 1995.

REMARKS.--Upper Colorado River Basin National Water Quality Assessment Program station (NAWQA).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
DEC 13...	1250	555	198	8.3	3.0	10.2	86	25	5.7	4.7	0.2	1.6
JAN 18...	1150	544	190	8.2	2.0	11.4	87	26	5.4	4.5	0.2	1.3
FEB 21...	1515	663	204	8.3	3.0	11.4	90	27	5.6	4.6	0.2	1.5
MAR 15...	1415	1280	227	8.2	3.5	12.6	100	29	6.7	6.3	0.3	1.5
APR 20...	1245	2510	209	8.1	5.0	10.4	98	29	6.1	5.1	0.2	1.1
MAY 10...	1220	3390	222	8.0	6.0	9.8	95	28	6.2	5.6	0.2	1.5
24...	1300	4610	193	8.2	7.5	11.0	82	24	5.3	4.9	0.2	1.6
JUN 29...	1245	5360	142	8.0	10.0	9.8	60	18	3.7	3.9	0.2	1.4
JUL 10...	1025	8150	152	8.1	10.0	10.4	63	19	3.8	3.6	0.2	1.3
AUG 23...	1100	1050	170	8.1	12.5	8.2	75	22	4.9	3.8	0.2	1.2
SEP 19...	1120	1180	172	7.9	13.0	8.1	76	22	5.0	4.0	0.2	1.2

DATE	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)
DEC 13...	96	79	14	0.9	0.1	13	122	112	0.17	183	<0.01
JAN 18...	98	80	17	1.1	0.1	12	123	116	0.17	181	<0.01
FEB 21...	95	78	18	1.0	0.2	12	123	117	0.17	220	<0.01
MAR 15...	103	84	25	1.1	0.2	12	138	133	0.19	477	<0.01
APR 20...	100	82	20	1.1	0.1	11	134	123	0.18	908	<0.01
MAY 10...	104	85	21	1.1	0.2	12	121	127	0.16	1110	<0.01
24...	90	74	16	1.0	0.2	14	122	112	0.17	1520	<0.01
JUN 29...	65	53	13	0.7	0.1	16	90	89	0.12	1300	<0.01
JUL 10...	69	57	13	3.2	0.1	14	103	92	0.14	2270	<0.01
AUG 23...	84	69	13	0.7	0.1	13	95	100	0.13	269	<0.01
SEP 19...	85	70	13	0.8	<0.1	12	110	100	0.15	350	<0.01

09128000 GUNNISON RIVER BELOW GUNNISON TUNNEL, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
DEC 13...	0.06	<0.015	<0.2	<0.2	0.02	0.01	0.01	2.2	0.2	<10	<10
JAN 18...	0.08	<0.015	0.2	<0.2	<0.01	<0.01	0.01	2.1	0.1	9	<1
FEB 21...	0.06	<0.015	<0.2	<0.2	0.02	<0.01	0.01	2.0	0.2	8	4
MAR 15...	0.06	<0.015	<0.2	<0.2	0.02	<0.01	<0.01	2.1	0.4	11	12
APR 20...	<0.05	<0.015	<0.2	<0.2	0.01	0.01	0.01	2.1	0.2	5	2
MAY 10...	0.08	<0.015	<0.2	<0.2	0.03	0.02	0.01	2.6	0.3	16	2
JUN 24...	0.09	0.020	<0.2	<0.2	0.06	<0.01	0.02	3.1	0.7	37	2
JUL 29...	<0.05	<0.015	0.2	<0.2	0.05	<0.01	<0.01	3.4	0.2	52	3
AUG 10...	0.06	0.020	<0.2	<0.2	0.03	<0.01	0.02	3.2	0.3	51	5
SEP 23...	<0.05	<0.015	<0.2	<0.2	0.04	0.03	0.01	3.4	0.2	38	2
SEP 19...	<0.05	<0.015	0.2	<0.2	0.02	0.02	0.01	3.1	0.3	14	2

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ANTI- MONY, DIS- SOLVED (UG/L AS SB)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)
SEP 19...	5	<1	<1	33	<1	<1	<1	<1	1

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
SEP 19...	<1	2	<1	<1	<1	<1	1	<1

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 18...	1035	557	201	9.5	JUL 05...	1600	8740	166	9.0
JAN 25...	1120	627	207	2.0	AUG 31...	1000	1050	171	13.0
MAR 16...	1350	1350	232	4.0	SEP 21...	1200	316	228	14.0
APR 26...	1600	2000	216	5.0					

09128000 GUNNISON RIVER BELOW GUNNISON TUNNEL, CO--Continued
(National Water-Quality Assessment Program station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)
DEC					MAY				
13...	1250	555	1	1.5	10...	1220	3390	24	220
JAN					24...	1300	4610	70	871
18...	1150	544	1	1.5	JUN				
FEB					29...	1245	5360	28	405
21...	1515	663	2	3.6	AUG				
MAR					23...	1100	1050	5	14
15...	1415	1280	5	17					
APR									
20...	1245	2510	8	54					

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 mi².

PERIOD OF RECORD.--December 1961 to current year. Monthend active contents provided by U.S. Bureau of Reclamation from December 1961 to September 1987. Extremes for period of record are subsequent to 1987.

REVISED RECORD.--WDR CO-92-2; 1988-91.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,447.50 ft above sea level (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations above sea level.

REMARKS.--Reservoir is formed by an earthfill dam. Storage began in December 1961; dam completed January 1962. Capacity 20,950 acre-ft, 1966 survey, between elevation 6,290.0 ft streambed at dam, and 6,447.5 ft, crest of spillway. Dead storage below elevation 6,358.0 ft, 2,440 acre-ft. Inactive storage below elevation 6360.0 ft, 2,620 acre-ft. Figures published prior to 1988 water year are active contents; figures given beginning 1988 water year are live contents.

COOPERATION.--Capacity tables provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 17,460 acre-ft, June 6, 1995, elevation 6,449.76 ft; minimum contents, 433 acre-ft, Sept. 4, 1990, elevation 6,367.17 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 17,460 acre-ft, June 6, elevation, 6,449.76 ft; minimum contents, 765 acre-ft, Apr. 23, elevation, 6,372.89 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	6,372.75	760	-
Oct. 31.	6,386.90	2,060	+1,300
Nov. 30.	6,395.25	3,310	+1,250
Dec. 31.	6,400.89	4,280	+970
CAL YR 1994.	-	-	-660
Jan. 31.	6,397.26	3,640	-640
Feb. 28.	6,410.57	6,270	+2,630
Mar. 31.	6,386.07	1,960	-4,310
Apr. 30.	6,387.71	2,170	+210
May 31.	6,449.27	17,290	+15,120
June 30.	6,448.70	17,100	-190
July 31.	6,448.02	16,880	-220
Aug. 31.	6,441.95	14,910	-1,970
Sept. 30.	6,414.91	7,290	-7,620
WTR YR 1995.	-	-	+6,530

LOCATION.--Lat 38°55'33", long 107°26'01", in SE¹/4SW¹/4 sec.10, T.13 S., R.90 W., Gunnison County, Hydrologic Unit 14020004, on left bank 2.3 mi east of Somerset and 4.8 mi upstream from Hubbard Creek.

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.

GAGE.--Satellite data-collection platform. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1995, BY WATER YEAR (WY)

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1934 - 1995	
ANNUAL TOTAL	133230		295179			
ANNUAL MEAN	365		809		462	
HIGHEST ANNUAL MEAN					829	1984
LOWEST ANNUAL MEAN					114	1977
HIGHEST DAILY MEAN	2580	May 13	4600	Jun 6	7080	May 24 1984
LOWEST DAILY MEAN	37	Dec 10	35	Jan 1	17	Nov 10 1950
ANNUAL SEVEN-DAY MINIMUM	50	Jan 26	49	Dec 27	25	Feb 17 1978
INSTANTANEOUS PEAK FLOW			5660	Jun 17	9220	May 24 1984
INSTANTANEOUS PEAK STAGE			a 6.56	Jun 17	b 8.20	May 24 1984
ANNUAL RUNOFF (AC-FT)	264300		585500		334600	
10 PERCENT EXCEEDS	1270		2810		1520	
50 PERCENT EXCEEDS	100		283		130	
90 PERCENT EXCEEDS	55		56		52	

a-May have been higher during period of no gage-height record, Jun 12-17.
b-From outside high-water mark.

09134000 MINNESOTA CREEK NEAR PAONIA, CO

LOCATION.--Lat 38°52'12", long 107°30'13", in SE¹/4NE¹/4 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 mi².

PERIOD OF RECORD.--April 1936 to September 1947, October 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,200 ft above sea level, from topographic map. April 1936 to October 1941, staff gages at different datums. October 1941 to September 1947, water-stage recorder at different datum. December 1985 to present, water-stage recorder, at datum 2.0 ft, lower.

REMARKS.--Estimated daily discharges: Nov. 15 to Mar. 9, and July 14 and 15. Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by two small storage reservoirs, one of which obtains water from the East Muddy Creek Basin. Small trans-basin diversion from Coal Creek into Minnesota Creek. Diversions upstream from station for irrigation of about 100 acres. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	3.2	2.7	2.8	4.2	8.0	11	59	121	166	33	22
2	4.4	2.8	2.6	3.4	4.4	7.8	12	69	138	155	31	22
3	3.2	3.1	2.6	3.5	4.6	7.6	12	64	142	152	30	21
4	2.7	3.2	2.5	3.6	4.8	7.5	14	54	148	140	30	21
5	2.5	2.9	2.5	3.6	5	7.4	19	62	151	131	33	20
6	3.5	2.9	2.6	3.5	5.1	7.2	21	62	174	125	35	20
7	3.2	3.1	2.7	3.4	5.1	8.0	20	59	183	125	34	20
8	3.0	3.5	2.8	3.3	5.0	9.0	29	68	171	123	33	20
9	3.0	3.2	2.5	3.3	5.0	10	30	57	167	125	34	19
10	2.9	3.0	2.4	3.3	5.0	11	23	56	141	127	32	19
11	2.9	3.1	2.4	3.2	4.9	17	22	65	133	125	31	18
12	2.9	4.5	2.9	3.2	4.8	14	22	100	144	117	30	17
13	2.9	4.4	3.0	3.2	4.7	8.3	24	77	167	113	29	17
14	2.8	3.8	3.0	3.1	4.2	8.2	26	71	192	110	29	18
15	3.1	2.5	3.1	3.0	4.6	11	23	81	218	106	26	17
16	3.3	2.6	3.0	2.9	5.2	13	21	92	216	97	26	17
17	3.4	2.8	3.0	2.8	6.0	15	21	104	218	92	25	16
18	3.5	2.8	3.1	3.0	6.2	16	21	100	194	86	24	14
19	3.4	2.9	3.0	3.4	6.3	20	21	102	180	85	24	13
20	3.5	2.7	3.0	3.6	6.2	18	21	124	181	62	24	12
21	3.4	2.6	2.9	3.4	6.4	20	21	144	183	51	24	11
22	3.4	2.5	2.9	3.5	6.6	17	21	164	171	47	23	10
23	3.3	2.4	3.0	3.8	7	14	21	157	170	45	22	9.4
24	3.4	2.5	3.3	4.2	7.5	14	21	142	164	36	21	8.6
25	3.3	2.6	3.6	4.5	8.0	14	21	139	158	31	21	7.8
26	3.2	2.7	3.5	4.4	8.2	18	22	131	151	29	22	7.1
27	3.2	2.6	3.4	4.4	8.4	19	24	125	151	28	23	6.0
28	3.2	2.6	3.6	4.3	8.3	19	31	116	150	27	22	7.0
29	3.2	2.7	3.5	4.0	---	19	38	116	148	26	22	13
30	3.3	2.7	3.0	3.7	---	20	62	121	162	25	21	8.0
31	3.0	---	2.0	3.9	---	17	---	115	---	26	22	---
TOTAL	101.7	88.9	90.1	109.2	161.7	415.0	695	2996	4987	2733	836	450.9
MEAN	3.28	2.96	2.91	3.52	5.77	13.4	23.2	96.6	166	88.2	27.0	15.0
MAX	5.7	4.5	3.6	4.5	8.4	20	62	164	218	166	35	22
MIN	2.5	2.4	2.0	2.8	4.2	7.2	11	54	121	25	21	6.0
AC-FT	202	176	179	217	321	823	1380	5940	9890	5420	1660	894

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1995, BY WATER YEAR (WY)

	MEAN	5.99	5.42	4.50	3.56	4.07	7.44	29.5	98.0	78.2	29.7	15.4	8.11
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 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1937 - 1995
ANNUAL TOTAL	5829.2	13664.5	
ANNUAL MEAN	16.0	37.4	24.2
HIGHEST ANNUAL MEAN			46.9
LOWEST ANNUAL MEAN			7.97
HIGHEST DAILY MEAN	97	May 20	340
LOWEST DAILY MEAN	a1.7	Sep 18	1.0
ANNUAL SEVEN-DAY MINIMUM	1.8	Sep 17	1.4
INSTANTANEOUS PEAK FLOW		238	359
INSTANTANEOUS PEAK STAGE		2.50	b3.24
ANNUAL RUNOFF (AC-FT)	11560	27100	17570
10 PERCENT EXCEEDS	38	138	73
50 PERCENT EXCEEDS	6.0	14	7.0
90 PERCENT EXCEEDS	2.7	2.9	3.0

a-Also occurred Sep 19 and 20.

b-Maximum gage height, 3.70 ft, May 22, 1942, site and datum then in use.

c-Also occurred June 17.

09135900 LEROUX CREEK AT HOTCHKISS, CO

LOCATION.--Lat 38°47'53", long 107°43'53", in NW¹/4NE¹/4 sec.36, T.14 S., R.93 W., Delta County, Hydrologic Unit 14020004, on left bank at upstream side of culvert, 0.3 mi west of Hotchkiss city limits, and 0.5 mi upstream from mouth.

DRAINAGE AREA.--66.7 mi².

PERIOD OF RECORD.--June 1976 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 5,315 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharge: May 23 to June 21, and July 12 to Sept. 27. Records good except those for estimated daily discharge, which are poor. Natural flow of stream is affected by diversions upstream from station for irrigation and by return flow from irrigated area upstream from station. Mostly return flow after June. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	11	7.2	5.0	4.0	4.7	5.3	15	200	166	14	7.8
2	7.6	11	7.3	5.0	4.0	4.8	5.4	13	280	163	13	7.5
3	7.9	11	7.2	5.1	4.2	4.8	4.9	8.7	260	143	13	7.2
4	7.4	11	7.2	5.0	4.2	4.5	4.8	1.3	350	133	14	7.0
5	8.6	10	7.2	5.1	4.1	4.5	7.4	2.8	410	84	15	6.8
6	9.0	9.9	8.1	5.0	4.1	5.8	15	2.0	400	80	15	6.9
7	9.2	9.7	7.3	4.9	4.2	4.7	20	1.9	390	84	15	7.5
8	9.2	9.7	6.9	5.0	4.3	4.7	23	2.5	380	78	14	7.4
9	12	9.4	6.5	5.0	4.4	4.5	22	2.6	380	67	14	7.3
10	11	9.0	6.3	4.8	4.2	4.4	11	2.4	390	64	13	7.2
11	9.9	8.9	6.3	4.7	4.2	4.2	8.2	3.6	410	60	12	7.4
12	9.6	9.1	6.2	4.8	4.1	4.5	12	41	500	40	11	7.6
13	9.2	8.8	6.3	4.7	4.2	4.2	32	43	600	18	11	7.5
14	9.0	8.6	6.3	4.7	4.4	4.2	33	30	650	17	10	7.4
15	8.0	8.5	6.3	4.6	4.3	4.2	21	95	720	17	11	7.2
16	7.4	8.4	6.1	4.6	4.1	4.3	16	211	700	16	11	7.4
17	8.7	8.2	5.9	4.5	4.1	5.9	20	195	480	16	12	7.6
18	12	8.0	5.9	4.4	4.1	13	17	140	390	15	12	7.8
19	11	8.1	5.8	4.3	4.0	16	6.2	122	360	14	11	8.0
20	11	8.0	5.6	4.3	4.1	15	3.5	157	330	14	11	8.5
21	11	8.1	5.4	4.2	4.0	14	4.0	211	300	13	11	8.7
22	12	8.0	5.3	4.1	4.1	15	3.4	314	289	13	10	8.9
23	12	7.9	5.4	3.9	4.1	13	3.1	290	248	13	10	9.0
24	12	7.8	5.3	3.9	4.3	13	3.1	245	188	12	9.7	9.5
25	12	7.7	5.4	3.9	4.2	9.4	3.4	200	192	13	9.4	10
26	11	7.7	5.3	3.9	4.3	7.5	3.4	150	195	13	9.2	9.2
27	11	7.4	5.3	4.1	4.1	7.2	3.3	110	191	13	9.0	9.0
28	11	7.5	5.3	3.9	4.3	6.5	3.3	50	165	14	8.5	8.3
29	11	7.3	5.3	3.9	---	6.1	4.0	14	148	15	8.4	11
30	11	7.3	5.4	3.9	---	5.8	12	9.0	179	15	8.2	11
31	11	---	5.2	3.9	---	5.8	---	45	---	14	8.0	---
TOTAL	310.6	263.0	190.5	139.1	116.7	226.2	330.7	2727.8	10675	1437	353.4	243.6
MEAN	10.0	8.77	6.15	4.49	4.17	7.30	11.0	88.0	356	46.4	11.4	8.12
MAX	12	11	8.1	5.1	4.4	16	33	314	720	166	15	11
MIN	7.4	7.3	5.2	3.9	4.0	4.2	3.1	1.3	148	12	8.0	6.8
AC-FT	616	522	378	276	231	449	656	5410	21170	2850	701	483

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1995, BY WATER YEAR (WY)

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	19.5	15.6	12.1	10.1	9.48	10.9	43.6	115	91.5	8.05	6.41	9.09								
MAX	84.2	51.6	25.2	21.2	28.3	47.7	165	340	356	46.4	11.4	35.9								
(WY)	1987	1987	1987	1987	1987	1986	1987	1993	1995	1995	1995	1982								
MIN	1.95	2.85	3.35	2.77	2.80	2.74	2.44	.96	.89	.85	1.32	1.10								
(WY)	1978	1978	1978	1978	1978	1990	1990	1977	1977	1977	1977	1977								

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1976 - 1995

ANNUAL TOTAL	3508.5	17013.6	
ANNUAL MEAN	9.61	46.6	29.7
HIGHEST ANNUAL MEAN			55.1
LOWEST ANNUAL MEAN			4.95
HIGHEST DAILY MEAN	61	May 18	a 720
LOWEST DAILY MEAN	2.9	Aug 21	1.3
ANNUAL SEVEN-DAY MINIMUM	3.2	Sep 1	2.2
INSTANTANEOUS PEAK FLOW			b 723
INSTANTANEOUS PEAK STAGE			b 9.35
ANNUAL RUNOFF (AC-FT)	6960	33750	21520
10 PERCENT EXCEEDS	13	165	61
50 PERCENT EXCEEDS	7.6	8.5	8.6
90 PERCENT EXCEEDS	3.7	4.1	3.2

a-Estimated during period of no gage-height record, Jun 8-15.

b-From discharge measurement. May have been higher during period of no gage-height record and indefinite stage-discharge relationship, Jun 8-21.

09143000 SURFACE CREEK NEAR CEDAREGE, CO

LOCATION.--Lat 38°59'05", long 107°51'13", in NW¹/4NW¹/4 sec.25, T.12 S., R.94 W., Delta County, Hydrologic Unit 14020005, on left bank 5 ft downstream from private bridge, 1.4 mi downstream from Caesar Creek, and 7.0 mi northeast of Cedaredge.

DRAINAGE AREA.--27.4 mi².

PERIOD OF RECORD.--July 1939 to 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.--Estimated daily discharges: Nov. 1, 2, 4-7, Nov. 9 to Mar. 9, Mar. 12-14, 23, and Mar. 26 to Apr. 2. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	3.8	3.2	1.9	2.8	3.6	6.6	43	153	422	53	84
2	21	3.6	3.3	2.2	2.9	3.7	7.8	47	170	405	52	83
3	19	3.5	3.4	2.5	2.9	3.8	6.8	41	176	407	52	80
4	41	3.7	3.5	2.5	2.8	3.7	8.1	64	235	369	71	69
5	24	3.5	4.0	2.7	2.8	3.5	11	59	221	309	71	69
6	24	3.6	4.4	2.8	2.8	3.3	15	41	230	307	67	82
7	18	3.7	4.3	2.8	2.7	3.0	19	32	218	312	59	80
8	18	3.8	4.0	2.7	2.8	2.7	22	27	193	303	58	65
9	17	3.8	3.6	2.8	2.9	2.5	18	29	161	306	64	63
10	9.8	3.8	3.4	2.8	3.1	2.2	14	49	156	284	66	69
11	9.1	4.1	3.3	2.7	2.8	2.3	12	66	191	269	98	41
12	13	4.0	3.5	2.7	2.9	2.5	11	78	231	231	89	33
13	12	4.1	3.7	2.6	2.8	3.2	18	50	253	198	88	27
14	6.1	4.0	3.8	2.7	2.4	3.5	22	76	293	188	81	26
15	8.8	3.5	3.5	2.7	2.3	4.8	15	143	561	153	85	26
16	9.3	3.4	3.2	2.7	2.3	6.5	15	163	695	132	71	25
17	9.7	3.7	3.0	2.4	2.3	8.0	17	156	481	117	70	25
18	9.6	4.1	2.9	2.6	2.5	8.0	14	136	409	122	65	23
19	12	4.3	2.9	2.7	2.5	8.6	13	140	381	114	65	23
20	12	4.0	2.8	3.0	2.6	8.4	12	166	441	94	65	27
21	13	3.8	2.6	3.0	2.8	8.4	11	198	407	82	59	29
22	12	3.8	2.8	2.9	2.9	8.5	11	203	392	78	57	36
23	12	3.7	2.9	2.8	2.8	9.0	9.8	187	391	72	48	35
24	9.7	3.5	2.8	3.0	3.0	8.9	9.5	167	402	67	50	33
25	9.7	3.4	2.8	3.3	3.4	8.6	11	141	404	65	61	31
26	11	3.7	2.6	3.5	3.3	8.4	13	118	392	77	57	39
27	11	3.6	2.5	3.6	3.3	7.6	15	111	400	75	58	73
28	4.6	3.2	2.7	3.3	3.4	6.8	18	87	374	71	64	72
29	4.6	2.9	2.8	3.1	---	6.6	22	81	377	68	61	82
30	4.9	3.2	2.6	2.9	---	6.2	37	99	412	65	64	75
31	4.4	---	2.5	2.8	---	6.2	---	103	---	54	65	---
TOTAL	416.3	110.8	99.3	86.7	78.8	173.0	434.6	3101	9800	5816	2034	1525
MEAN	13.4	3.69	3.20	2.80	2.81	5.58	14.5	100	327	188	65.6	50.8
MAX	41	4.3	4.4	3.6	3.4	9.0	37	203	695	422	98	84
MIN	4.4	2.9	2.5	1.9	2.3	2.2	6.6	27	153	54	48	23
AC-FT	826	220	197	172	156	343	862	6150	19440	11540	4030	3020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1995, BY WATER YEAR (WY)

	MEAN	16.9	7.70	5.45	5.08	5.11	6.78	33.9	126	139	78.3	55.2	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 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1939 - 1995

	ANNUAL TOTAL	12949.1	23675.5	
ANNUAL MEAN	35.5	64.9	43.1	
HIGHEST ANNUAL MEAN			75.7	1983
LOWEST ANNUAL MEAN			10.6	1977
HIGHEST DAILY MEAN	176	May 30	695	Jun 16 1995
LOWEST DAILY MEAN	^a 2.5	Dec 27	1.9	Jan 1 1977
ANNUAL SEVEN-DAY MINIMUM	2.6	Dec 25	2.4	Dec 30 1977
INSTANTANEOUS PEAK FLOW			892	Jun 15 1995
INSTANTANEOUS PEAK STAGE			^b 3.79	Jun 15 1995
ANNUAL RUNOFF (AC-FT)	25680	46960	31220	
10 PERCENT EXCEEDS	95	200	115	
50 PERCENT EXCEEDS	9.8	12	16	
90 PERCENT EXCEEDS	3.4	2.8	3.7	

a-Also occurred Dec 31.

b-Maximum gage height, 5.10 ft, Apr 13, 1958, ice jam.

09143500 SURFACE CREEK AT CEDAREDDGE, CO

LOCATION.--Lat 38°54'06", long 107°55'14", in SW¹/4SE¹/4 sec.20, T.13 S., R.94 W., Delta County, Hydrologic Unit 14020005, on left bank at Cedaredge, 700 ft east of State Highway 65, and 8.5 mi upstream from mouth.

DRAINAGE AREA.--39.0 mi².

PERIOD OF RECORD.--October 1916 to 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.--Estimated daily discharges: Nov. 5-8, 10-13, 15-20, Nov. 23 to Dec. 16, 18-21, Dec. 28 to Jan. 5, 17-20, Feb. 15-17, Mar. 17-22, Mar. 28 to Apr 3, 9, 10, and May 3, 4. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	4.2	2.8	2.3	3.0	3.6	5.6	68	99	206	34	35
2	15	3.7	2.9	2.0	3.1	3.4	6.8	74	123	188	39	31
3	14	3.1	3.0	2.2	3.2	3.4	9.6	76	123	186	36	29
4	32	3.3	3.3	2.4	3.0	3.3	11	72	204	171	46	25
5	24	3.1	3.5	2.5	3.0	3.4	20	71	208	147	45	24
6	25	3.0	3.9	2.6	3.0	3.6	30	43	234	141	42	26
7	19	3.2	3.8	2.6	2.9	3.0	39	31	204	139	37	25
8	19	3.1	3.5	2.7	3.1	3.7	47	25	155	130	34	29
9	17	3.2	3.3	2.7	3.3	3.6	32	26	113	117	38	29
10	13	3.3	3.1	2.7	3.2	3.5	23	51	95	110	37	35
11	12	3.5	3.1	2.7	3.2	4.5	20	68	120	103	57	24
12	12	3.5	3.2	2.8	3.1	5.6	18	104	156	91	53	15
13	11	3.3	3.4	2.8	2.8	4.4	37	60	189	75	53	11
14	7.9	2.8	3.6	3.0	3.1	4.5	46	75	207	72	44	10
15	9.7	3.0	3.7	2.9	3.6	6.1	30	152	390	57	40	7.5
16	9.1	3.2	3.4	3.0	4.0	6.1	27	164	508	54	28	5.0
17	7.4	3.5	3.5	2.7	3.5	8.8	33	165	455	59	28	4.4
18	7.6	3.6	3.2	2.6	2.6	9.0	25	133	358	67	34	6.2
19	10	3.6	3.1	2.7	2.2	8.8	23	117	309	63	36	7.8
20	11	3.5	3.2	2.8	2.4	8.6	19	125	338	57	38	12
21	13	3.6	3.4	3.1	3.0	8.8	17	142	349	55	39	13
22	15	3.4	3.6	3.0	3.2	9.6	16	208	333	53	38	11
23	15	3.3	3.6	3.0	3.4	11	14	180	287	53	30	8.4
24	11	3.1	3.6	3.0	3.4	12	12	136	248	54	28	7.0
25	9.3	2.8	3.6	2.9	3.6	9.2	13	107	235	52	35	8.2
26	11	3.2	3.5	2.7	3.9	7.5	21	77	224	51	33	10
27	11	3.0	2.8	2.9	3.5	7.4	28	71	216	45	31	55
28	6.7	2.7	2.7	3.0	3.4	6.2	33	54	185	44	39	59
29	5.3	2.6	2.7	3.1	---	6.2	40	48	188	43	36	69
30	5.5	2.8	2.8	3.2	---	6.0	65	73	209	42	32	60
31	4.0	---	2.5	3.0	---	5.6	---	73	---	36	32	---
TOTAL	403.5	97.2	101.3	85.6	88.7	190.4	761.0	2869	7062	2761	1172	691.5
MEAN	13.0	3.24	3.27	2.76	3.17	6.14	25.4	92.5	235	89.1	37.8	23.0
MAX	32	4.2	3.9	3.2	4.0	12	65	208	508	206	57	69
MIN	4.0	2.6	2.5	2.0	2.2	3.0	5.6	25	95	36	28	4.4
AC-FT	800	193	201	170	176	378	1510	5690	14010	5480	2320	1370

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 1995, BY WATER YEAR (WY)

	MEAN	10.4	5.23	3.41	3.20	3.31	4.72	34.0	109	84.5	36.1	22.7	15.2
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1918 - 1995	
ANNUAL TOTAL	7935.6		16283.2			
ANNUAL MEAN	21.7		44.6		27.8	
HIGHEST ANNUAL MEAN					62.5	
LOWEST ANNUAL MEAN					7.87	
HIGHEST DAILY MEAN	103	May 6	508	Jun 16	640	May 30 1920
LOWEST DAILY MEAN	2.5	Dec 31	2.0	Jan 2	a.00	Sep 25 1939
ANNUAL SEVEN-DAY MINIMUM	2.8	Nov 27	2.4	Dec 31	.11	Mar 12 1954
INSTANTANEOUS PEAK FLOW			764	Jun 15	b.1190	May 13 1941
INSTANTANEOUS PEAK STAGE			3.06	Jun 15	3.10	May 21 1993
ANNUAL RUNOFF (AC-FT)	15740		32300		20110	
10 PERCENT EXCEEDS	59		140		73	
50 PERCENT EXCEEDS	11		12		9.4	
90 PERCENT EXCEEDS	3.3		2.9		2.0	

a-No flow at times some years.

b-From rating curve extended above 640 ft³/s.

09144250 GUNNISON RIVER AT DELTA, CO

LOCATION.--Lat 38°45'01", long 108°04'06", in SE¹/4NE¹/4 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 mi².

PERIOD OF RECORD.--May 1976 to current year. Gage-height records collected at this site 1912-77 (flood seasons only) are in reports of the National Weather Service.

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.--Estimated daily discharges: May 23-26. Records good except for estimated daily discharges, which are fair. 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 during the year and are published elsewhere in 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	874	824	1090	911	836	924	2030	5450	8200	11700	5100	1390
2	905	823	1090	888	835	1000	2010	5550	9040	11500	4350	1440
3	917	828	1080	916	834	1020	2100	6000	9690	13000	3970	1480
4	955	787	1090	943	834	999	2250	5580	10400	14100	3920	1380
5	964	747	1100	952	835	993	2380	5720	11900	12800	3960	731
6	904	724	1190	957	834	1190	2580	5800	12800	12900	4060	667
7	880	716	1160	945	766	1040	2760	5590	11800	12800	4100	1420
8	881	720	1120	945	810	951	2970	5470	11500	11600	3300	1670
9	861	728	1030	939	886	986	3470	5480	10100	11500	2820	1750
10	877	719	882	937	866	1180	3140	5440	8570	11800	2820	1700
11	893	716	782	924	857	1290	2930	5650	8220	12400	2810	1690
12	895	722	795	840	853	1580	2610	7030	9360	12300	2240	1700
13	888	740	837	827	853	1750	2650	7110	10800	12500	2230	1680
14	880	750	890	821	865	1790	2880	6390	10800	12400	2190	1050
15	916	742	910	832	823	1800	2680	7060	11800	12000	2170	899
16	912	732	951	834	808	1840	2500	8480	12200	11500	1820	1600
17	912	910	951	829	838	2000	2620	8640	11300	11000	1560	1610
18	918	1090	951	727	852	2080	3110	8120	11700	10800	1510	1680
19	923	1120	951	746	865	2200	3310	8700	9670	11000	1470	1700
20	916	1120	934	795	864	2280	3440	9530	9250	10600	1600	1680
21	904	1110	928	803	879	2160	3640	10500	11200	9420	1570	1060
22	887	1110	940	810	882	2270	3730	10600	11300	8000	1490	796
23	880	1080	961	792	913	2460	3870	11900	10500	7670	1480	882
24	875	1040	952	780	911	2520	3940	11500	9840	7430	1480	981
25	867	1050	952	822	929	2420	3420	11000	9460	6900	1510	980
26	874	1070	949	837	946	2290	2840	9000	9140	6030	1490	962
27	861	1070	945	840	944	2050	3410	8020	9120	5890	1540	950
28	848	1060	928	823	934	2070	4160	7690	8930	5640	1560	932
29	857	1040	863	806	---	2090	4350	7290	8710	5490	1430	2100
30	867	1060	914	802	---	1990	4850	7870	11200	5440	1380	2350
31	866	---	949	822	---	2000	---	8160	---	5350	1350	---
TOTAL	27657	26948	30065	26445	24152	53213	92630	236320	308500	313460	74280	40910
MEAN	892	898	970	853	863	1717	3088	7623	10280	10110	2396	1364
MAX	964	1120	1190	957	946	2520	4850	11900	12800	14100	5100	2350
MIN	848	716	782	727	766	924	2010	5440	8200	5350	1350	667
AC-FT	54860	53450	59630	52450	47910	105500	183700	468700	611900	621700	147300	81140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1995, BY WATER YEAR (WY)

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	1329	1487	1591	1643	1718	1938	2502	4695	4339	2349	1172	1183								
MAX	2833	3156	3103	3349	3381	3696	6641	11090	13520	10110	2752	2496								
(WY)	1987	1987	1987	1985	1985	1985	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 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1976 - 1995
ANNUAL TOTAL	448218	1254580	
ANNUAL MEAN	1228	3437	
HIGHEST ANNUAL MEAN			2191
LOWEST ANNUAL MEAN			4670
HIGHEST DAILY MEAN	5000	May 23	14100
LOWEST DAILY MEAN	^a 373	Jul 29	667
ANNUAL SEVEN-DAY MINIMUM	389	Jul 28	721
INSTANTANEOUS PEAK FLOW			14600
INSTANTANEOUS PEAK STAGE			10.59
ANNUAL RUNOFF (AC-FT)	889000	2488000	1587000
10 PERCENT EXCEEDS	2270	10600	4240
50 PERCENT EXCEEDS	928	1480	1500
90 PERCENT EXCEEDS	712	824	500

a-Also occurred Jul 30.

09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO

LOCATION.--Lat 38°11'02", long 107°44'43", in SW¹/₄NE¹/₄ sec.4, T.45 N., R.8 W., Ouray County, Hydrologic Unit 14020006, on right bank 15 ft downstream from bridge, 0.2 mi downstream from Dry Creek, 0.5 mi upstream from Dallas Creek, and 2.3 mi north of Ridgway.

DRAINAGE AREA.--149 mi².

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.--Estimated daily discharge: Dec. 10. Records good. Diversions for irrigation upstream from station. Water is imported upstream from station in some years by Red Mountain ditch from Mineral Creek in San Juan River basin. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	173	67	55	52	55	71	71	115	255	1110	412	214
2	131	65	58	48	58	72	73	128	393	948	379	205
3	119	69	56	54	58	72	70	135	474	926	354	199
4	127	69	56	50	57	74	73	125	485	739	331	187
5	125	69	54	50	58	70	83	140	543	603	337	178
6	129	68	59	52	59	75	91	131	679	664	331	188
7	121	67	57	51	61	68	102	127	602	823	318	190
8	121	72	56	52	61	64	122	137	519	893	313	209
9	114	69	51	53	60	66	141	142	510	1070	334	206
10	108	68	46	54	58	81	121	132	489	1140	307	198
11	104	66	44	54	58	100	109	142	574	1070	327	189
12	102	75	43	55	56	101	113	156	743	1050	346	172
13	102	72	49	54	55	79	127	147	882	972	372	164
14	97	63	50	55	60	78	128	140	1080	947	333	158
15	97	59	47	56	57	88	119	207	1240	879	298	152
16	93	63	51	56	53	93	109	269	1420	844	266	145
17	95	62	49	55	54	99	106	264	1410	755	242	144
18	96	61	50	53	54	89	100	228	1030	704	245	153
19	91	62	50	61	55	95	97	234	848	720	245	147
20	87	61	52	59	57	88	93	267	992	706	341	136
21	85	64	50	53	67	87	88	327	1100	636	313	136
22	82	64	50	54	70	91	88	427	1070	610	321	129
23	79	57	50	58	73	89	88	436	1090	568	327	124
24	76	55	52	56	75	86	93	378	1090	516	305	122
25	76	57	52	54	77	82	93	329	1150	510	280	119
26	74	58	52	55	75	78	97	260	1160	500	262	120
27	73	56	51	55	71	73	103	255	1110	483	367	112
28	72	54	50	55	70	74	104	235	981	478	337	110
29	72	56	52	55	---	73	109	229	1080	486	287	162
30	74	54	52	54	---	73	122	213	1130	468	256	172
31	68	---	51	53	---	71	---	201	---	437	230	---
TOTAL	3063	1902	1595	1676	1722	2500	3033	6656	26129	23255	9716	4840
MEAN	98.8	63.4	51.5	54.1	61.5	80.6	101	215	871	750	313	161
MAX	173	75	59	61	77	101	141	436	1420	1140	412	214
MIN	68	54	43	48	53	64	70	115	255	437	230	110
AC-FT	6080	3770	3160	3320	3420	4960	6020	13200	51830	46130	19270	9600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1995, BY WATER YEAR (WY)

MEAN	86.8	67.0	51.2	43.8	44.8	58.8	111	321	597	343	159	107
MAX	153	94.4	67.3	54.1	61.5	81.0	188	765	914	848	313	250
(WY)	1985	1971	1971	1995	1995	1974	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1959 - 1995

ANNUAL TOTAL	51796	86087	
ANNUAL MEAN	142	236	166
HIGHEST ANNUAL MEAN			270
LOWEST ANNUAL MEAN			72.6
HIGHEST DAILY MEAN	772	Jun 4	1740
LOWEST DAILY MEAN	30	Jan 31	26
ANNUAL SEVEN-DAY MINIMUM	37	Jan 27	47
INSTANTANEOUS PEAK FLOW			1830
INSTANTANEOUS PEAK STAGE		5.59	Jun 15
ANNUAL RUNOFF (AC-FT)	102700	170800	2100
10 PERCENT EXCEEDS	400	705	435
50 PERCENT EXCEEDS	83	100	78
90 PERCENT EXCEEDS	43	54	42

a-From rating curve extended above 1800 ft³/s.

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 mi².

PERIOD OF RECORD.--March 1922 to October 1927, October 1955 to September 1971, October 1979 to current year.

REVISED RECORDS.--WSP 1924: 1960. WDR CO-88-2: Drainage area.

GAGE.--Water stage recorder with satellite telemetry and 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.--Estimated daily discharges: Oct. 17 to Jan. 26, Jan. 30 to Feb. 5, and Feb. 17-20. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	20	16	15	15	19	28	154	64	215	131	74
2	46	19	17	14	17	20	30	191	68	201	124	78
3	40	21	16	16	17	21	31	189	72	205	116	82
4	39	20	16	16	17	24	33	170	80	188	122	71
5	39	20	15	15	17	24	39	192	94	131	130	65
6	44	20	17	15	18	31	44	129	96	125	119	70
7	41	21	16	16	17	27	55	112	90	147	111	71
8	38	21	16	17	16	28	72	110	79	155	105	91
9	39	21	15	17	16	25	87	132	72	204	115	95
10	38	20	13	17	15	36	55	130	67	247	103	94
11	37	21	13	17	16	42	52	152	61	245	104	83
12	35	22	12	18	15	43	61	224	69	274	110	73
13	31	21	14	18	15	27	71	154	85	292	108	66
14	31	19	14	18	17	25	69	155	88	290	102	62
15	30	18	13	19	19	28	59	187	109	265	90	60
16	31	19	14	18	16	32	49	160	129	233	82	59
17	30	18	14	17	15	32	55	175	185	217	76	56
18	29	18	14	17	15	32	45	230	152	211	78	61
19	28	18	14	19	15	41	45	166	104	200	81	59
20	27	18	15	19	16	36	41	153	104	201	140	54
21	26	19	14	17	17	38	40	155	120	190	143	53
22	26	18	14	18	18	42	38	152	112	186	136	52
23	25	17	14	20	17	34	40	135	111	170	135	51
24	24	17	15	19	17	34	44	112	121	143	124	48
25	23	17	15	16	17	31	45	93	138	147	113	46
26	23	17	15	15	18	30	63	82	153	137	105	45
27	22	17	15	15	17	29	84	86	157	138	101	43
28	22	16	14	15	18	27	109	76	149	141	101	42
29	22	17	15	14	---	26	121	91	185	144	92	56
30	23	16	15	14	---	26	159	95	210	144	88	52
31	20	---	15	14	---	26	---	72	---	141	80	---
TOTAL	985	566	455	515	463	936	1764	4414	3324	5927	3365	1912
MEAN	31.8	18.9	14.7	16.6	16.5	30.2	58.8	142	111	191	109	63.7
MAX	56	22	17	20	19	43	159	230	210	292	143	95
MIN	20	16	12	14	15	19	28	72	61	125	76	42
AC-FT	1950	1120	902	1020	918	1860	3500	8760	6590	11760	6670	3790

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1995, BY WATER YEAR (WY)

	MEAN	24.2	24.1	20.0	17.7	18.7	25.1	59.1	54.3	62.9	77.4	60.2	38.9
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1922 - 1995

ANNUAL TOTAL	9930.9	24626	
ANNUAL MEAN	27.2	67.5	40.1
HIGHEST ANNUAL MEAN			86.4
LOWEST ANNUAL MEAN			13.8
HIGHEST DAILY MEAN	104	Jun 22	740
LOWEST DAILY MEAN	2.7	May 27	.21
ANNUAL SEVEN-DAY MINIMUM	5.4	May 24	.38
INSTANTANEOUS PEAK FLOW			a 1120
INSTANTANEOUS PEAK STAGE		5.02	b 4.40
ANNUAL RUNOFF (AC-FT)	19700	48850	29030
10 PERCENT EXCEEDS	46	155	93
50 PERCENT EXCEEDS	24	41	24
90 PERCENT EXCEEDS	12	15	11

a-Maximum discharge observed, datum then in use, from rating curve extended above 160 ft³/s.

b-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 Uncompagre River, 0.5 mi upstream from Fisher Creek, and 5.3 mi north of Ridgway.

DRAINAGE AREA.--265 mi².

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

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is above sea level, (levels by U.S. Bureau of Reclamation); gage readings published are to datum.

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, maximum water surface. Dead storage below elevation 6,720.0 ft, 1,430 acre-ft. Figures given are live contents.

COOPERATION.--Capacity tables provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 84,900 acre-ft, June 11, 1990, elevation, 6,872.93 ft; minimum contents, 49,810 acre-ft, June 2, 1995, elevation, 6,834.93 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 81,140 acre-ft, July 19, elevation, 6,869.39 ft; minimum contents, 49,810 acre-ft, June 2, elevation, 6,834.93 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400 WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	6,852.15	64,330	-
Oct. 31.	6,852.47	64,620	+290
Nov. 30.	6,854.25	66,260	+1,640
Dec. 31.	6,856.38	68,250	+1,990
CAL YR 1994.	-	-	-5,640
Jan. 31.	6,857.73	69,530	+1,280
Feb. 28.	6,859.61	71,340	+1,810
Mar. 31.	6,855.19	67,140	-4,200
Apr. 30.	6,842.91	56,260	-10,880
May 31.	6,835.39	50,170	-6,090
June 30.	6,861.81	73,480	+23,310
July 31.	6,868.57	80,280	+6,800
Aug. 31.	6,864.57	76,210	-4,070
Sept. 30.	6,855.43	67,360	-8,850
WTR YR 1995	-	-	+3030

09147025 UNCOMPAHGRE RIVER BELOW RIDGWAY RESERVOIR, CO

LOCATION.--Lat 38°14'17", long 107°45'31", in NE¹/4SE¹/4 sec.17, T.46 N., R.8 W., Ouray County, Hydrologic Unit 14020006, on right bank 1,600 ft upstream from Fisher Creek, 800 ft downstream from Ridgway Reservoir gate house, and 5.4 mi north of Ridgway.

DRAINAGE AREA.--265 mi².

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

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,650 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation by means of numerous canals downstream from station. Flow regulated by Ridgway Reservoir, capacity 84,591 acre-ft. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	128	50	49	49	50	292	358	497	790	591	457
2	122	128	50	49	49	74	292	362	466	791	580	460
3	122	128	50	49	49	137	326	361	469	808	558	464
4	122	128	50	49	49	152	346	361	476	828	547	463
5	122	128	50	47	49	150	354	363	544	837	561	460
6	122	128	50	47	49	147	356	363	576	849	584	451
7	119	128	50	47	49	142	367	364	587	865	541	455
8	118	128	50	47	49	142	382	362	580	871	556	454
9	119	82	47	47	49	144	375	398	572	882	558	478
10	123	49	46	47	49	145	369	418	561	981	552	498
11	125	49	47	48	49	145	367	415	561	1080	550	495
12	125	49	47	49	49	145	371	444	579	1050	551	468
13	125	49	47	49	50	145	374	460	596	1050	558	461
14	125	49	48	49	50	145	368	461	617	1060	551	462
15	125	44	49	49	50	145	368	538	643	1050	562	447
16	125	46	49	49	50	142	371	651	604	1050	585	460
17	125	47	49	49	50	142	374	652	594	1000	557	459
18	125	47	49	49	49	142	365	586	584	944	501	456
19	125	47	49	47	49	142	345	569	586	913	459	445
20	125	47	49	47	49	194	351	579	584	912	459	429
21	125	47	49	47	46	227	335	575	586	911	453	357
22	125	47	49	47	49	223	325	591	581	896	452	325
23	125	47	49	47	49	218	334	575	574	889	456	339
24	125	48	49	47	50	221	341	573	570	771	452	334
25	125	49	49	48	50	219	345	570	576	666	451	249
26	125	49	49	49	50	226	348	567	644	617	452	200
27	125	49	49	49	50	279	354	560	699	576	452	205
28	126	49	49	49	50	289	355	553	706	557	459	204
29	128	49	49	49	---	291	358	550	709	567	455	204
30	128	49	49	49	---	291	358	553	754	582	448	204
31	128	---	49	49	---	289	---	546	---	587	455	---
TOTAL	3847	2112	1515	1493	1379	5543	10566	15278	17675	26230	15946	11843
MEAN	124	70.4	48.9	48.2	49.2	179	352	493	589	846	514	395
MAX	128	128	50	49	50	291	382	652	754	1080	591	498
MIN	118	44	46	47	46	50	292	358	466	557	448	200
AC-FT	7630	4190	3010	2960	2740	10990	20960	30300	35060	52030	31630	23490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1995, BY WATER YEAR (WY)

	MEAN	89.0	80.5	76.3	58.6	59.1	101	247	312	403	426	335	172
MAX	124	108	105	76.2	77.4	179	381	493	589	846	535	395	395
(WY)	1995	1993	1993	1991	1991	1995	1991	1995	1995	1995	1992	1995	1995
MIN	55.4	43.1	41.9	41.3	40.5	39.3	36.8	159	199	186	188	68.1	68.1
(WY)	1991	1990	1990	1992	1990	1990	1990	1989	1989	1989	1989	1993	1993

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1989 - 1995

ANNUAL TOTAL	68793	113427		
ANNUAL MEAN	188	311		
HIGHEST ANNUAL MEAN			197	
LOWEST ANNUAL MEAN			311	1995
HIGHEST DAILY MEAN	602	Jul 30	1080	Jul 11 1995
LOWEST DAILY MEAN	44	Nov 15	44	Nov 15
ANNUAL SEVEN-DAY MINIMUM	46	Nov 15	46	Nov 15
INSTANTANEOUS PEAK FLOW			1120	Jul 10
INSTANTANEOUS PEAK STAGE			3.63	Jul 10
ANNUAL RUNOFF (AC-FT)	136500	225000	142900	Jun 13 1990
10 PERCENT EXCEEDS	439	599	454	
50 PERCENT EXCEEDS	122	249	109	
90 PERCENT EXCEEDS	49	49	46	

a-Also occurred Apr 22-24, 1990.

09147500 UNCOMPAHGRE RIVER AT COLONA, CO

LOCATION.--Lat 38°19'53", long 107°46'44", in NW¹/4NW¹/4 sec.17, T.47 N., R.8 W., Ouray County, Hydrologic Unit 14020006, on right bank 75 ft downstream from county highway crossing, 0.2 mi north of Colona, and 1.0 mi upstream from Beaton Creek.

DRAINAGE AREA.--448 mi².

PERIOD OF RECORD.--April 1903 to November 1905, April to June 1906 (gage heights and discharge measurements only), October 1912 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "near Colona" 1904-6, 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.--Estimated daily discharges: Dec. 10, 12, and Jan. 1-3. Records good except for estimated daily discharges, which are fair. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	139	68	50	56	72	281	335	691	1390	562	414
2	98	144	70	49	57	83	286	348	775	1270	556	412
3	96	144	71	50	58	139	308	363	850	1320	547	406
4	97	142	68	53	58	155	331	336	872	1280	545	403
5	98	143	61	53	59	156	339	347	1120	1190	543	400
6	108	145	60	53	59	154	340	333	1200	1190	535	396
7	111	147	58	52	60	148	334	316	1110	1300	527	404
8	115	149	58	54	62	153	338	324	1030	1400	529	409
9	120	116	56	54	62	157	354	365	992	1560	543	402
10	122	81	54	54	60	165	333	375	896	1740	539	403
11	125	80	53	53	60	175	329	389	909	1900	547	397
12	123	81	53	53	60	177	335	436	1030	1860	546	384
13	123	80	53	54	60	164	356	419	1140	1710	563	380
14	126	74	51	55	61	163	364	404	1220	1680	531	380
15	124	68	53	55	62	176	353	532	1270	1640	516	366
16	124	75	54	55	62	180	347	718	1430	1600	505	377
17	128	76	52	55	62	183	356	933	1500	1490	496	375
18	132	73	52	57	65	172	352	837	1280	1380	440	379
19	132	74	50	56	66	178	348	1010	1060	1320	397	374
20	124	73	55	58	65	206	340	1310	1040	1250	425	372
21	126	73	54	57	66	246	337	1260	1060	1170	439	322
22	126	73	52	56	72	252	335	954	1040	1090	437	289
23	128	70	51	56	74	244	328	955	985	1030	447	290
24	133	69	51	58	77	241	322	910	999	872	435	289
25	133	73	51	58	78	237	321	887	974	753	426	238
26	133	73	52	57	77	231	332	830	1020	690	427	192
27	135	73	53	56	73	263	339	832	1050	607	446	189
28	137	71	53	56	72	292	327	796	994	581	448	185
29	141	71	54	55	---	287	327	758	1130	592	424	206
30	140	68	54	54	---	284	343	770	1320	587	414	217
31	136	---	52	56	---	280	---	732	---	576	416	---
TOTAL	3803	2818	1727	1692	1803	6013	10035	20114	31987	38018	15151	10250
MEAN	123	93.9	55.7	54.6	64.4	194	334	649	1066	1226	489	342
MAX	141	149	71	58	78	292	364	1310	1500	1900	563	414
MIN	96	68	50	49	56	72	281	316	691	576	397	185
AC-FT	7540	5590	3430	3360	3580	11930	19900	39900	63450	75410	30050	20330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1995, BY WATER YEAR (WY)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	126	105	94.5	81.3	79.9	123	294	511	637	467
MAX	224	137	132	105	102	194	542	926	1066	1226
(WY)	1988	1986	1993	1986	1986	1995	1992	1987	1995	1995
MIN	51.6	50.2	53.0	51.4	51.0	58.2	62.6	160	229	207
(WY)	1990	1990	1990	1990	1990	1990	1990	1988	1989	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1986 - 1995
ANNUAL TOTAL	72637	143411	
ANNUAL MEAN	199	393	a249
HIGHEST ANNUAL MEAN			393
LOWEST ANNUAL MEAN			129
HIGHEST DAILY MEAN	816	May 23	1900
LOWEST DAILY MEAN	50	Dec 19	49
ANNUAL SEVEN-DAY MINIMUM	52	Dec 22	51
INSTANTANEOUS PEAK FLOW			2230
INSTANTANEOUS PEAK STAGE			4.76
ANNUAL RUNOFF (AC-FT)	144100	284500	180200
10 PERCENT EXCEEDS	457	1060	594
50 PERCENT EXCEEDS	125	252	126
90 PERCENT EXCEEDS	71	55	61

a-Average discharge for 76 years (water years 1904-1905, 1913-1986), 271 ft³/s, 196,300 acre-ft/yr, prior to completion of Ridgway Reservoir.

b-Minimum daily discharge for period of record, 12 ft³/s, Sep 19, 1956, and May 7, 1967.

c-Maximum discharge for period of record, 4080 ft³/s, June 13, 14, 1921, gage height unknown.

GUNNISON RIVER BASIN

09149500 UNCOMPAHGRE RIVER AT DELTA, CO

LOCATION.--Lat 38°44'31", long 108°04'49", in SW¹/4SW¹/4 sec.13, T.15 S., R.96 W., Delta County, Hydrologic Unit 14020006, on right bank 525 ft downstream from 5th Street Bridge at west edge of Delta and 1.1 mi upstream from mouth.

DRAINAGE AREA.--1,115 mi².

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. 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.--Estimated daily discharges: May 23-26, and June 30 to July 5. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	416	229	208	151	177	181	327	516	654	590	333	332
2	404	199	204	149	175	215	342	484	686	650	316	333
3	418	233	200	158	175	226	349	751	877	720	293	325
4	476	326	200	166	174	274	309	543	904	790	268	312
5	353	321	202	171	169	308	270	487	1200	850	272	276
6	229	311	232	174	169	399	265	559	1500	897	300	290
7	359	305	212	172	170	367	250	529	1380	869	275	364
8	384	300	207	174	182	280	248	543	1160	791	255	451
9	382	340	178	174	185	269	319	541	970	822	232	554
10	379	276	176	174	177	285	412	525	733	895	242	576
11	360	254	198	172	177	297	372	525	664	1020	317	673
12	349	253	182	179	174	317	311	739	713	925	299	647
13	365	255	196	183	166	303	272	872	817	805	329	579
14	368	241	193	179	169	288	267	708	862	1080	324	528
15	411	227	183	180	181	291	287	795	967	1060	324	501
16	389	224	178	178	167	296	292	1200	1070	1080	287	538
17	399	232	185	175	159	296	281	1460	1400	1040	310	550
18	412	230	190	167	164	295	290	1470	1810	874	324	603
19	410	225	204	157	165	293	288	1350	1190	920	324	668
20	423	221	184	162	164	297	329	1340	1020	882	452	680
21	443	222	189	167	163	296	310	1360	933	888	426	670
22	434	225	168	163	163	502	284	1260	830	810	433	645
23	421	206	172	142	166	616	223	1100	693	761	434	667
24	416	201	170	169	165	542	214	1000	594	682	491	673
25	411	204	168	184	170	516	165	900	538	434	493	665
26	412	203	169	182	172	547	183	800	494	327	465	604
27	404	201	170	174	167	512	225	728	478	296	452	581
28	402	197	166	174	166	533	221	633	391	253	466	585
29	397	187	166	170	---	551	195	649	401	306	426	674
30	393	212	174	163	---	464	312	712	530	309	402	628
31	291	---	173	175	---	367	---	700	---	299	355	---
TOTAL	12110	7260	5797	5258	4771	11223	8412	25779	26459	22925	10919	16172
MEAN	391	242	187	170	170	362	280	832	882	740	352	539
MAX	476	340	232	184	185	616	412	1470	1810	1080	493	680
MIN	229	187	166	142	159	181	165	484	391	253	232	276
AC-FT	24020	14400	11500	10430	9460	22260	16690	51130	52480	45470	21660	32080

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1995, BY WATER YEAR (WY)

	MEAN	394	246	160	134	129	158	306	515	576	326	284	372
MAX	831	373	269	220	208	362	1107	2542	1763	1170	808	944	
(WY)	1942	1959	1994	1982	1948	1995	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 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1939 - 1995			
ANNUAL TOTAL	89142				157085							
ANNUAL MEAN	244				430				300			
HIGHEST ANNUAL MEAN									688			
LOWEST ANNUAL MEAN									155			
HIGHEST DAILY MEAN	a561				May 16				1810			
LOWEST DAILY MEAN	97				Apr 15				142			
ANNUAL SEVEN-DAY MINIMUM	105				Jul 20				161			
INSTANTANEOUS PEAK FLOW									2170			
INSTANTANEOUS PEAK STAGE									6.48			
ANNUAL RUNOFF (AC-FT)	176800				311600				217700			
10 PERCENT EXCEEDS	406				873				600			
50 PERCENT EXCEEDS	204				319				199			
90 PERCENT EXCEEDS	132				170				106			

a-Also occurred May 17.

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 ft³/s, Jul 10-15, 17, 21, 24-28, 1910.

c-From rating curve extended above 3400 ft³/s.

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO

LOCATION.--Lat 38°59'00", long 108°27'00", in NE¹/4SW¹/4 of sec.14, T.2 S., R.1 E., Ute Meridian, Mesa County, Hydrologic Unit 14020005, on right bank 180 ft upstream from bridge on State Highway 141, 0.4 mi downstream from Whitewater Creek, 0.5 mi south of Whitewater, and 8 mi southeast of Grand Junction.

DRAINAGE AREA.--7,928 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1894 to December 1895 (gage heights only), October 1896 to September 1899, October 1901 to October 1906, October 1916 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "at Whitewater" 1901-6.

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.--Estimated daily discharges: Dec. 12, and Jan. 3-4. Records good. Records show flow that enters Colorado River from Gunnison River basin except for about 60 ft³/s diverted downstream from gage during irrigation season. Natural flow of river affected by diversions for irrigation of about 233,000 acres upstream from station, storage reservoirs, and return flow from irrigated lands.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1900	1510	1530	1280	1180	1250	2820	6850	10300	14200	5630	2180
2	1880	1400	1530	1210	1180	1340	2810	6710	11100	14100	5030	2230
3	1900	1360	1520	1200	1180	1410	2830	7680	12200	14700	4570	2250
4	1940	1510	1520	1200	1180	1400	3020	7120	12800	17100	4420	2330
5	1940	1450	1540	1280	1170	1440	3040	6910	14500	15800	4460	1840
6	1640	1400	1670	1310	1180	1690	3270	7220	15800	15200	4520	1490
7	1600	1380	1700	1280	1150	1740	3510	6890	15600	15300	4690	1900
8	1700	1370	1590	1270	1110	1470	3760	6740	14400	14000	4150	2500
9	1680	1410	1510	1280	1240	1450	4160	6680	13200	13500	3570	2750
10	1700	1380	1320	1290	1220	1630	4310	6620	11400	13700	3430	2780
11	1690	1300	1250	1280	1200	1790	3930	6830	10400	14300	3530	2880
12	1660	1290	1100	1230	1200	2020	3600	7670	11400	14300	3120	2890
13	1680	1320	1230	1210	1190	2400	3400	8490	12900	14400	3030	2800
14	1660	1310	1230	1170	1200	2390	3670	8560	13700	14400	2970	2470
15	1760	1280	1310	1170	1240	2420	3640	8770	14600	14400	2990	1770
16	1760	1230	1320	1180	1150	2470	3430	10600	16000	13700	2750	2370
17	1730	1310	1320	1170	1170	2590	3310	11300	15500	13200	2390	2550
18	1820	1500	1330	1110	1180	2770	3780	11300	17300	12700	2210	2680
19	1810	1620	1330	1040	1200	2830	3970	11000	13900	13100	2120	2770
20	1810	1600	1320	1110	1200	3010	4180	12000	12700	12700	2300	2730
21	1820	1610	1290	1130	1200	2940	4370	12700	13400	11800	2470	2510
22	1810	1620	1290	1130	1210	3100	4440	13800	14100	10300	2350	1920
23	1770	1570	1320	1110	1220	3490	4460	14000	13400	9560	2360	1920
24	1760	1520	1320	1080	1240	3500	4540	12700	12400	9230	2360	2220
25	1750	1530	1330	1170	1240	3390	4410	11700	11900	8260	2450	2200
26	1760	1580	1340	1190	1270	3280	3750	10800	11400	6700	2430	2170
27	1730	1560	1330	1190	1270	3090	3890	10300	11300	6290	2400	2080
28	1710	1540	1320	1190	1260	3000	4780	9880	11000	6010	2500	2020
29	1710	1500	1250	1160	---	3080	5080	9460	10400	5870	2360	2900
30	1720	1480	1230	1140	---	2960	5600	9770	12400	5870	2270	3880
31	1660	---	1320	1150	---	2830	---	10500	---	5790	2190	---
TOTAL	54460	43440	42510	36910	33630	74170	115760	291550	391400	370480	98020	71980
MEAN	1757	1448	1371	1191	1201	2393	3859	9405	13050	11950	3162	2399
MAX	1940	1620	1700	1310	1270	3500	5600	14000	17300	17100	5630	3880
MIN	1600	1230	1100	1040	1110	1250	2810	6620	10300	5790	2120	1490
AC-FT	108000	86160	84320	73210	66710	147100	229600	578300	776300	734800	194400	142800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1897 - 1995, BY WATER YEAR (WY)

MEAN	1408	1405	1310	1236	1242	1416	3098	7578	7232	2572	1360	1323
MAX	3479	3303	3225	3515	3844	3887	9184	18870	19630	11950	3639	4959
(WY)	1987	1987	1987	1974	1974	1971	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 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1897 - 1995
ANNUAL TOTAL	678725	1624310	
ANNUAL MEAN	1860	4450	2601
HIGHEST ANNUAL MEAN			5187
LOWEST ANNUAL MEAN			838
HIGHEST DAILY MEAN	6040	May 23	17300
LOWEST DAILY MEAN	838	Jul 29	1040
ANNUAL SEVEN-DAY MINIMUM	959	Jul 27	1100
INSTANTANEOUS PEAK FLOW			18000
INSTANTANEOUS PEAK STAGE		11.92	Jun 18
ANNUAL RUNOFF (AC-FT)	1346000	3222000	1885000
10 PERCENT EXCEEDS	3150		6280
50 PERCENT EXCEEDS	1520		2330
90 PERCENT EXCEEDS	1080		1200

a-Site and datum then in use, from rating curve extended above 22000 ft³/s.

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO--Continued
(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 TEMPERATURES: April 1949 to September 1974, September 1975 to current year.

INSTRUMENTATION.--Water-quality monitor since September 1975, November, 1991 water-quality monitor with satellite telemetry.

REMARKS.--Daily maximum and minimum specific conductance data available in district office. Daily water temperature data are good. Daily specific conductance data are fair.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 3,000 microsiemens several days during July and September 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, 1,290 microsiemens Oct. 1; minimum, 289 microsiemens July 13, may have been lower during period of missing record June 8-27.

WATER TEMPERATURES: Maximum, 22.8°C, Sep 3; minimum, 0.0°C on several days December and January.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)
OCT										
27...	1210	1730	1060	8.3	9.5	--	9.8	--	--	410
DEC										
19...	1300	1400	920	8.5	1.5	--	12.0	--	--	360
JAN										
24...	1015	1080	860	8.5	0.5	3.6	11.1	K2	22	350
FEB										
23...	0925	1210	849	8.5	6.5	--	10.4	--	--	320
MAR										
20...	1455	3070	569	8.0	9.0	--	9.2	--	--	220
MAY										
17...	1033	11400	350	7.8	10.0	150	7.8	250	K540	140
JUN										
19...	1400	13900	348	8.0	13.0	--	8.9	--	--	140
JUL										
21...	0900	11500	352	8.9	14.5	--	8.2	--	--	140

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- ^a BONATE WATER DIS IT FIELD MG/L AS HCO3	CAR- ^b BONATE WATER DIS IT FIELD MG/L AS CO3	ALKA- ^c LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LAB (MG/L AS CACO3)
OCT									
27...	110	34	58	1	3.4	--	--	--	156
DEC									
19...	90	33	54	1	3.2	--	--	--	153
JAN									
24...	86	32	52	1	3.1	166	10	152	--
FEB									
23...	80	30	50	1	3.4	--	--	--	144
MAR									
20...	56	19	30	0.9	2.3	--	--	--	117
MAY									
17...	38	10	15	0.6	1.9	88	--	72	--
JUN									
19...	38	10	15	0.6	1.9	87	--	72	--
JUL									
21...	40	10	13	0.5	1.6	--	--	--	81

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.

K-Based on non-ideal colony count.

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO.--continued
(Irrigation network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

				SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)
DATE												
OCT 27...				370	8.0	0.5	14	--	691	0.94	3230	--
DEC 19...				300	7.7	0.3	12	636	592	0.86	2400	--
JAN 24...				300	7.8	0.4	12	617	590	0.84	1800	0.01
FEB 23...				280	7.7	0.3	12	597	550	0.81	1950	--
MAR 20...				150	5.0	0.3	12	370	347	0.50	3070	<0.01
MAY 17...				76	2.2	0.2	11	224	199	0.30	6890	<0.01
JUN 19...				88	2.0	0.2	13	223	212	0.30	8370	<0.01
JUL 21...				82	2.2	0.2	13	230	211	0.31	7140	--
DATE				NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
JAN 24...				0.91	<0.02	0.30	--	0.08	0.01	<0.01	--	--
MAR 20...				0.38	0.05	0.90	0.20	0.26	<0.01	<0.01	--	--
MAY 17...				0.16	0.03	0.30	--	0.06	0.03	0.01	--	--
JUN 19...				0.28	0.04	1.0	0.20	0.60	0.03	0.02	4.2	3.8
DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
DEC 19...	--	--	--	15	--	33	--	--	6	--	--	--
JAN 24...	20	40	<3	16	48	40	<10	<1	6	<1	900	<6
FEB 23...	--	--	--	9	--	49	--	--	--	--	--	--
MAR 20...	--	--	--	9	--	26	--	--	--	--	--	--
MAY 17...	50	49	<3	48	22	9	<10	<1	2	<1	340	<6
JUN 19...	--	--	--	62	--	9	--	--	2	--	--	--
JUL 21...	--	--	--	44	--	9	--	--	<2	--	--	--

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO--Continued
(Irrigation network station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC 19...	1300	1400	17	64	96
JAN 24...	1015	1080	14	41	--
FEB 23...	0925	1210	38	124	--
MAR 31...	1220	3020	168	1370	87
APR 28...	1115	5600	239	3610	62
MAY 17...	1033	11400	581	17900	74
MAY 17...	1034	11400	559	17200	80
JUN 13...	1330	13500	499	18200	72
JUN 19...	1400	13900	699	26200	--
JUL 21...	0900	11500	208	6460	--

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1160	1070	922	854	850	821	604	402	376	322	457	957
2	1200	1070	920	838	853	871	600	401	366	348	478	960
3	1180	1090	915	830	845	1020	595	412	357	358	515	952
4	1140	1100	913	835	836	1060	577	408	354	380	531	946
5	1140	1120	917	843	827	1070	559	401	363	355	529	---
6	1160	1120	922	835	826	1080	551	397	369	339	537	---
7	1210	1130	1000	841	827	1100	532	398	366	324	526	---
8	1230	1120	1050	842	845	1170	510	408	---	322	535	---
9	1170	1120	985	833	865	1080	499	420	---	317	584	---
10	1160	1130	942	831	862	990	492	417	---	314	609	---
11	1150	1180	942	836	875	880	492	406	---	302	618	---
12	1140	1190	1010	842	861	815	492	415	---	301	668	---
13	1130	1190	1040	879	860	771	497	438	---	297	728	---
14	1130	1200	1030	908	856	713	502	414	---	319	744	---
15	1140	1170	1020	902	861	676	501	393	---	334	757	---
16	1150	1160	971	900	896	664	499	369	---	332	763	---
17	1140	1180	945	899	909	655	498	366	---	334	817	---
18	1120	1160	928	900	849	636	500	372	---	337	895	---
19	1100	1030	913	900	833	612	499	379	---	363	898	---
20	1100	997	905	888	825	598	497	382	---	361	913	---
21	1090	985	893	853	816	583	493	376	---	373	940	---
22	1070	968	878	855	825	597	486	368	---	395	939	---
23	1060	980	871	856	844	589	471	361	---	401	921	---
24	1060	961	877	836	841	553	457	357	---	403	933	---
25	1050	952	877	834	824	542	446	356	---	406	949	---
26	1050	967	877	876	820	581	439	354	---	440	968	1020
27	1060	958	880	883	820	567	443	354	---	453	941	1040
28	1060	946	873	885	818	587	435	357	---	449	926	1040
29	1070	940	871	895	---	586	419	353	---	455	912	1070
30	1070	925	887	887	---	629	408	355	---	462	934	1160
31	1070	---	890	862	---	632	---	368	---	457	946	---

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO--Continued
(Irrigation network station)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	14.6	12.5	8.5	6.9	2.7	.9	1.8	.5	4.3	2.5	9.1	8.1
2	14.9	12.5	8.4	7.0	3.0	1.3	.9	.0	5.5	3.6	8.5	7.4
3	14.4	13.1	8.2	7.7	3.1	1.7	.2	.0	5.7	4.0	8.4	7.2
4	15.0	13.0	8.4	7.0	4.1	2.6	1.2	.0	5.3	3.8	9.1	7.1
5	14.9	13.8	8.2	6.7	4.5	3.8	1.9	1.2	5.0	3.4	8.5	7.2
6	13.8	12.7	8.2	6.6	4.9	4.2	2.6	1.7	5.1	3.4	8.1	6.7
7	13.9	11.8	8.9	6.7	5.2	4.4	2.5	1.5	5.2	3.6	8.0	5.4
8	14.1	11.5	9.1	8.4	4.7	2.5	2.2	1.9	4.7	4.1	6.1	4.0
9	13.7	11.3	8.8	7.7	2.5	.9	3.8	2.1	4.4	3.5	7.2	4.3
10	13.6	11.1	8.0	6.5	1.2	.0	4.3	3.0	5.5	3.6	8.6	5.8
11	13.6	11.2	7.9	6.6	.7	.0	4.4	3.6	4.7	4.2	8.9	7.2
12	13.8	11.4	8.4	7.6	1.0	.0	4.6	3.9	4.7	4.1	8.7	7.1
13	13.6	11.5	8.0	6.7	2.2	.9	5.0	3.5	5.3	3.6	8.9	6.8
14	12.7	11.8	6.7	4.7	2.7	2.0	5.3	4.0	6.4	5.1	9.3	6.4
15	12.3	11.1	4.7	3.3	2.3	1.5	5.2	4.5	5.7	3.8	8.9	7.3
16	11.1	10.1	4.2	3.1	1.5	.7	4.8	3.9	5.4	3.2	10.3	7.3
17	10.6	9.6	5.0	3.5	1.4	.3	3.9	2.9	5.3	3.5	10.9	8.9
18	10.1	9.3	4.7	3.8	1.5	.4	2.9	1.5	5.8	3.7	10.4	8.8
19	11.6	9.6	4.9	3.7	1.7	.5	1.9	.8	6.2	4.2	10.3	9.0
20	11.5	9.9	4.8	3.5	1.5	.5	1.5	.5	6.9	4.7	9.6	8.3
21	11.5	9.4	5.2	4.3	1.2	.2	1.6	.7	7.3	5.4	9.4	7.7
22	11.6	9.3	5.4	4.0	1.2	.2	1.5	.2	8.1	5.7	9.7	8.3
23	11.5	9.3	4.6	3.0	1.8	.8	1.0	.2	8.3	6.2	9.2	7.9
24	11.0	9.4	3.8	2.6	2.6	1.7	1.2	.2	8.3	6.3	9.3	7.7
25	10.8	8.7	4.4	2.6	4.1	2.5	2.4	.7	8.0	6.6	8.3	6.2
26	10.9	8.7	4.4	3.1	5.0	3.7	3.9	2.1	9.2	7.1	7.0	5.8
27	10.3	9.0	3.1	1.5	4.6	3.6	3.9	3.7	9.5	7.7	7.3	5.5
28	10.8	8.6	2.7	1.3	4.0	3.3	4.6	3.2	9.5	7.8	7.8	5.8
29	10.9	8.8	2.0	.7	3.4	2.4	3.8	2.5	---	---	6.9	5.4
30	10.6	9.3	1.9	.5	2.6	2.2	3.1	1.6	---	---	7.3	4.7
31	9.6	7.9	---	---	2.9	1.8	3.1	1.9	---	---	7.9	6.2
MONTH	15.0	7.9	9.1	.5	5.2	.0	5.3	.0	9.5	2.5	10.9	4.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.7	6.1	10.1	8.2	12.2	11.6	12.5	11.8	17.4	16.3	21.7	19.2
2	9.3	7.1	8.9	8.2	12.6	10.6	13.0	12.0	17.8	16.1	22.2	19.0
3	9.9	7.6	9.0	7.9	11.0	10.3	13.2	11.6	18.2	16.8	22.8	19.6
4	10.3	8.0	9.4	8.9	11.2	10.5	12.8	10.9	18.7	17.0	22.3	19.6
5	10.7	8.5	9.9	9.0	12.4	10.9	13.3	11.7	18.5	17.1	21.5	19.2
6	10.3	8.8	9.2	8.1	12.8	11.2	14.0	12.6	18.4	16.8	21.9	19.6
7	10.3	8.6	9.3	8.3	11.6	10.6	14.3	13.1	18.7	17.3	21.5	19.5
8	10.7	9.2	8.9	8.1	11.6	10.7	14.8	13.7	19.5	17.5	20.3	18.6
9	10.0	6.4	10.1	8.9	10.9	10.0	15.0	14.3	20.1	17.9	20.0	18.0
10	6.4	4.7	10.0	9.3	12.0	10.7	15.3	14.4	19.7	18.1	19.3	17.9
11	7.8	5.6	10.0	9.3	12.3	12.0	15.5	14.4	19.8	18.4	19.0	17.2
12	9.3	6.7	9.5	9.0	12.9	12.3	15.4	14.3	20.9	18.8	19.2	17.1
13	10.7	8.4	9.0	7.7	13.3	12.3	15.2	13.9	20.8	18.6	19.0	16.7
14	10.2	8.9	10.8	8.6	13.0	12.4	14.3	13.5	20.5	18.9	19.2	16.8
15	8.9	7.8	11.7	10.8	13.2	12.2	14.9	13.4	20.0	17.7	18.9	16.5
16	8.2	6.8	11.7	9.6	12.7	11.6	15.1	14.0	19.4	17.9	19.1	16.2
17	8.9	7.8	10.1	9.3	12.8	9.6	15.2	13.9	20.4	17.4	17.9	16.2
18	8.3	7.0	10.1	9.0	11.3	9.1	14.3	13.5	21.6	18.1	17.4	15.9
19	9.2	7.7	11.0	10.1	12.3	11.3	15.3	13.3	20.1	18.2	17.2	15.4
20	8.6	7.3	11.5	11.0	12.8	12.3	15.4	14.2	18.8	17.1	16.9	15.0
21	8.7	7.0	11.9	9.8	13.1	12.7	15.3	14.3	21.3	18.3	15.0	13.0
22	8.8	7.4	11.4	10.6	13.1	12.7	15.3	14.2	22.3	19.6	14.4	11.5
23	8.9	8.0	11.3	9.4	13.1	12.7	15.4	14.8	22.3	20.6	13.9	11.3
24	8.9	7.4	10.0	9.3	13.3	12.8	15.8	14.9	21.2	20.0	13.7	11.6
25	9.3	8.2	10.0	9.2	13.4	13.0	16.0	15.3	21.6	19.2	---	---
26	10.6	8.5	9.4	8.7	13.8	13.2	16.7	15.6	22.1	19.0	---	---
27	10.5	9.5	10.7	9.2	14.0	13.0	16.7	15.6	22.2	19.6	15.6	12.6
28	9.6	8.7	10.7	8.9	13.7	13.1	17.3	16.0	21.5	19.4	15.8	14.5
29	10.2	8.6	9.7	8.7	14.0	13.5	17.7	16.5	22.2	19.6	15.3	13.8
30	10.8	9.3	10.7	9.7	13.7	12.5	17.2	16.4	22.4	19.5	13.8	12.6
31	---	---	11.6	9.5	---	---	17.5	16.5	22.5	19.1	---	---
MONTH	10.8	4.7	11.9	7.7	14.0	9.1	17.7	10.9	22.5	16.1	---	---

09153290 REED WASH NEAR MACK, CO

LOCATION.--Lat 39°12'41", long 108°48'11", in SE¹/4SW¹/4 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 mi².

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,505 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: June 6-15. Records good except for estimated daily discharges, which are fair. Flow is mostly return flow and waste water from irrigated lands under Government Highline and Grand Valley Canals. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	89	9.3	5.8	4.4	4.1	2.7	56	68	64	65	70
2	49	84	9.3	5.8	4.4	4.1	3.1	71	70	67	59	70
3	50	83	9.3	5.6	4.2	4.1	3.8	57	71	69	65	70
4	61	77	9.3	5.6	4.2	4.1	6.5	54	70	67	68	68
5	68	71	9.8	5.6	4.2	4.0	36	63	71	65	70	67
6	70	77	83	5.6	4.2	3.9	86	60	67	57	73	62
7	70	64	74	5.6	4.2	3.3	78	57	68	59	70	62
8	73	38	63	5.6	4.2	3.5	71	50	67	63	69	67
9	76	16	60	5.6	4.2	3.7	58	48	71	66	74	68
10	72	15	27	5.6	4.0	3.7	54	48	66	63	82	63
11	65	15	8.9	5.6	3.8	3.5	55	52	65	64	89	65
12	66	14	8.4	5.6	3.9	3.5	51	63	63	66	83	66
13	73	12	8.1	5.6	4.0	3.3	48	49	63	69	83	60
14	77	12	7.8	5.6	4.0	3.3	53	58	60	73	83	69
15	85	12	7.7	5.6	3.7	3.3	55	62	53	73	79	68
16	82	12	7.7	5.3	3.3	3.1	51	65	53	67	79	63
17	79	11	7.7	4.9	3.7	3.1	46	68	75	70	84	60
18	87	11	7.7	4.9	4.4	3.1	39	58	54	67	81	63
19	79	11	7.6	4.9	4.2	3.3	35	61	62	60	83	65
20	78	11	7.4	4.9	4.2	2.9	31	63	49	65	77	61
21	89	11	7.2	4.9	4.2	3.1	34	64	46	67	79	65
22	87	11	7.1	4.9	4.2	3.1	34	66	35	65	71	63
23	88	10	7.1	4.9	4.2	2.9	32	65	35	65	71	62
24	87	10	6.9	4.9	4.2	2.9	35	69	38	69	68	58
25	84	10	6.9	4.9	4.2	2.9	34	71	55	66	62	55
26	82	10	6.9	5.0	4.2	2.9	38	69	56	68	62	54
27	82	10	6.9	4.9	4.0	2.9	37	66	55	69	67	58
28	81	9.4	6.9	4.7	4.0	2.7	41	65	57	67	65	59
29	84	9.3	6.9	4.4	---	2.8	45	66	59	71	63	63
30	88	9.3	6.3	4.4	---	2.7	57	68	63	67	68	55
31	86	---	6.0	4.4	---	2.5	---	66	---	67	68	---
TOTAL	2350	835.0	508.1	161.6	114.6	102.3	1250.1	1898	1785	2055	2260	1899
MEAN	75.8	27.8	16.4	5.21	4.09	3.30	41.7	61.2	59.5	66.3	72.9	63.3
MAX	89	89	83	5.8	4.4	4.1	86	71	75	73	89	70
MIN	49	9.3	6.0	4.4	3.3	2.5	2.7	48	35	57	59	54
AC-FT	4660	1660	1010	321	227	203	2480	3760	3540	4080	4480	3770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1995, BY WATER YEAR (WY)

	MEAN	78.5	20.7	13.8	6.01	4.60	7.75	45.9	67.8	67.7	73.0	77.8	78.6
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	1978
MIN	61.3	11.5	6.63	3.41	3.29	2.85	18.5	43.1	47.6	58.4	60.0	61.1	
(WY)	1992	1976	1977	1982	1983	1983	1979	1992	1992	1991	1991	1989	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1976 - 1995

ANNUAL TOTAL	15234.4	15218.7	
ANNUAL MEAN	41.7	41.7	45.4
HIGHEST ANNUAL MEAN			54.0
LOWEST ANNUAL MEAN			35.2
HIGHEST DAILY MEAN	d ₈₉	e ₈₉	150
LOWEST DAILY MEAN	a _{3.1}	2.5	2.0
ANNUAL SEVEN-DAY MINIMUM	3.2	2.7	2.5
INSTANTANEOUS PEAK FLOW		126	b ₃₉₀
INSTANTANEOUS PEAK STAGE		5.08	c _{6.21}
ANNUAL RUNOFF (AC-FT)	30220	30190	32890
10 PERCENT EXCEEDS	78	77	88
50 PERCENT EXCEEDS	52	55	56
90 PERCENT EXCEEDS	3.8	4.0	4.1

a-Also occurred Feb 25, Mar 2, 24, 27-29.

b-Gage height unknown.

c-Maximum recorded gage height.

d-Also occurred Oct 21 and Nov 1.

e-Also occurred Nov 1 and Aug 11.

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 39°07'58", long 109°01'35", in SE¹/4NW¹/4 sec.5, T.11 S., R.104 W., Mesa County, Hydrologic Unit 14010005, on right bank 0.5 mi downstream from McDonald Creek, 1.7 mi upstream from Colorado-Utah State line, and 12 mi southwest of Mack.

DRAINAGE AREA.--17,843 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WRD Colo. 1974: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. 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 fair, Oct. 1 to Apr. 21. Records good, Apr. 22 to Sept. 30. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4050	3420	3300	2960	2550	3040	4570	8280	19000	35000	14700	4970
2	4250	3340	3520	2740	2590	3120	4550	8790	20500	35900	13800	4850
3	4250	3210	3590	2530	2650	3270	4460	10000	23200	36100	12600	4700
4	4100	3360	3490	2520	2670	3250	4390	10100	25500	38500	11800	4680
5	4160	3330	3450	2750	2660	3220	4360	9430	28300	37700	11300	4490
6	3940	3380	3570	2870	2640	3470	4620	9630	31200	34000	11200	3920
7	3750	3470	3830	2960	2610	3760	5060	9610	34300	33000	11000	3790
8	3820	3580	3750	2960	2590	3300	5520	9560	33700	33100	10500	4610
9	3770	3520	3590	2990	2650	2980	5780	9740	32400	33100	9580	4980
10	3740	3570	3300	3060	2750	2950	6430	9440	29700	34100	9040	5330
11	3720	3310	3020	3000	2740	3380	6190	9350	26500	35500	8850	5290
12	3680	3510	2760	3010	2760	3490	5800	10600	26600	36300	8830	5280
13	3630	3480	2820	2910	2810	3920	5180	14100	29700	37400	8580	5120
14	3570	3400	3070	2880	2770	4170	5020	13000	34000	38600	8380	4960
15	3640	3380	3140	2780	3040	4090	5350	12700	37400	37600	8160	4190
16	3880	3230	3180	2790	2830	4100	5350	14800	42300	35000	7760	4070
17	3810	3140	3120	2840	2540	4160	5310	17900	45700	32800	7060	4560
18	3830	3200	3060	2770	2540	4460	5320	19400	48100	31200	6450	4650
19	3920	3580	3080	2510	2610	4780	5650	18700	46600	30000	6090	4930
20	3870	3420	3080	2460	2680	5020	5840	19200	40000	29000	5890	5000
21	3870	3450	3030	2570	2730	5130	6130	20400	39200	28300	6260	4960
22	3870	3500	2930	2590	2710	5040	6320	21600	40000	26200	6110	4360
23	3790	3490	2940	2430	2750	5310	6320	23100	39500	24500	6150	4170
24	3840	3350	3060	2240	2800	5410	6320	23200	37100	23500	6310	4390
25	3650	3230	3110	2330	2840	5350	6170	21500	34500	22000	6470	4480
26	3740	3190	3170	2580	2880	5180	5430	20400	33000	19700	6570	4480
27	3720	3310	3170	2720	2930	4960	5190	18900	32200	17900	6320	4370
28	3690	3410	3070	2810	2960	4550	6090	18500	32400	16800	6160	4350
29	3670	3430	2980	2720	---	4580	6530	17100	32400	15900	6130	4530
30	3670	3300	2900	2600	---	4660	6940	17300	32800	15400	5780	7480
31	3600	---	2940	2600	---	4520	---	20000	---	15100	5320	---
TOTAL	118490	101490	99020	84480	76280	128620	166190	466330	1007800	919200	259150	141940
MEAN	3822	3383	3194	2725	2724	4149	5540	15040	33590	29650	8360	4731
MAX	4250	3580	3830	3060	3040	5410	6940	23200	48100	38600	14700	7480
MIN	3570	3140	2760	2240	2540	2950	4360	8280	19000	15100	5320	3790
AC-FT	235000	201300	196400	167600	151300	255100	329600	925000	1999000	1823000	514000	281500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1995, BY WATER YEAR (WY)

	MEAN	3865	3943	3554	3332	3417	3825	5840	14150	17530	8003	3857	3566
MAX	7672	6925	5993	6129	5996	7486	15600	37960	43830	29650	10190	6767	
(WY)	1987	1987	1986	1985	1985	1986	1985	1984	1957	1995	1983	1984	
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 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1951 - 1995
ANNUAL TOTAL	1590690	3568990	
ANNUAL MEAN	4358	9778	6275
HIGHEST ANNUAL MEAN			13470
LOWEST ANNUAL MEAN			2559
HIGHEST DAILY MEAN	13100	Jun 2	68300
LOWEST DAILY MEAN	2020	Jul 30	960
ANNUAL SEVEN-DAY MINIMUM	2250	Jul 28	1110
INSTANTANEOUS PEAK FLOW			a 69800
INSTANTANEOUS PEAK STAGE		15.32	b 16.12
ANNUAL RUNOFF (AC-FT)	3155000	7079000	4546000
10 PERCENT EXCEEDS	7610	32300	14000
50 PERCENT EXCEEDS	3490	4480	3890
90 PERCENT EXCEEDS	2850	2770	2230

a-At site 0.2 mi downstream, at present datum.

b-From high-water mark.

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued

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.--October 1979, water-quality data collection was moved 5.5 miles 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. Maximum and minimum specific conductance data available in district office. Daily records of water temperature are good. Daily records of specific conductance are good except May-July, which are poor. Interruptions in data are due to instrument malfunctions.

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, 0.0°C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,390 microsiemens Oct. 3, Dec. 14,15; minimum, 286 microsiemens July 11.

WATER TEMPERATURE: Maximum, 23.2°C Sep. 3; minimum, 0.0°C on several days in December and January.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL AS CACO3)
OCT										
04...	1340	3960	1340	8.3	14.5	--	8.3	--	--	460
NOV										
07...	1140	3530	1360	8.4	7.0	26	10.6	K11	30	460
DEC										
20...	1325	3130	1210	8.4	0.5	--	12.1	--	--	390
JAN										
12...	1315	3070	1180	--	4.5	--	--	--	--	340
FEB										
17...	1030	2580	1260	8.3	4.0	460	11.8	K75	160	340
MAR										
16...	1255	4390	983	--	11.0	--	--	--	--	290
21...	0910	5180	849	8.0	10.0	--	9.6	--	--	260
APR										
18...	1200	5290	738	--	9.5	--	--	--	--	240
MAY										
11...	1030	9240	606	--	11.5	--	--	--	--	210
16...	1030	13700	530	8.1	12.5	180	890	260	280	180
JUN										
06...	1300	30200	--	--	--	--	--	--	--	140
20...	1150	40000	322	8.1	13.0	--	8.9	--	--	120
JUL										
20...	1110	29100	378	8.1	15.5	--	8.4	--	--	140
AUG										
04...	0954	12000	520	8.2	18.0	--	7.4	--	--	180
SEP										
06...	1125	3950	1050	8.2	21.5	--	--	--	--	370

K-Based on non-ideal colony count.

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- ^a BONATE WATER DIS IT FIELD MG/L AS HCO3	CAR- ^b BONATE WATER DIS IT FIELD MG/L AS CO3	ALKA- ^c LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LINITY LAB (MG/L AS CACO3)
OCT 04...	120	38	110	2	4.0	--	--	--	178
NOV 07...	120	38	120	2	4.1	200	4	173	174
DEC 20...	99	34	110	2	4.0	--	--	--	169
JAN 12...	86	30	110	3	3.8	--	--	--	161
FEB 17...	87	29	120	3	4.1	208	--	170	164
MAR 16...	75	25	86	2	3.3	--	--	--	147
21...	67	22	70	2	3.0	--	--	--	139
APR 18...	64	19	55	2	3.2	--	--	--	126
MAY 11...	55	17	40	1	2.4	--	--	--	123
16...	50	14	34	1	2.3	127	--	104	117
JUN 06...	40	10	19	0.7	1.5	--	--	--	98
20...	35	8.6	15	0.6	1.7	103	--	84	83
JUL 20...	42	9.0	19	0.7	1.4	--	--	--	81
AUG 04...	50	13	33	1	1.9	--	--	--	95
SEP 06...	99	29	76	2	3.3	--	--	--	150

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)
OCT 04...	380	93	0.5	13	884	865	1.20	9450	--
NOV 07...	370	110	0.4	10	918	880	1.25	8750	<0.01
DEC 20...	300	110	0.3	9.9	806	769	1.10	6810	--
JAN 12...	280	110	0.3	7.4	769	724	1.05	6370	--
FEB 17...	280	120	0.4	9.4	784	756	1.07	5460	0.02
MAR 16...	210	82	0.3	12	613	582	0.83	7270	--
21...	180	67	0.3	11	523	506	0.71	7310	0.01
APR 18...	170	50	0.3	11	468	448	0.64	6680	--
MAY 11...	130	29	0.2	11	--	358	0.49	8940	--
16...	110	26	0.2	11	331	312	0.45	12200	<0.01
JUN 06...	65	11	0.2	10	--	215	0.29	17600	--
20...	58	9.7	0.2	10	198	190	0.27	21400	<0.01
JUL 20...	80	14	0.2	10	238	224	0.32	18700	--
AUG 04...	110	30	0.2	9.9	320	305	0.44	10400	--
SEP 06...	290	70	0.3	9.7	--	667	0.91	7120	--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
NOV 07...	0.73	<0.015	<0.20	--	0.05	<0.01	<0.01	--	--
FEB 17...	0.61	0.06	1.0	--	0.43	0.01	0.01	--	--
21...	0.41	0.08	0.90	0.30	0.25	<0.01	0.01	--	--
MAY 16...	0.24	0.04	0.50	--	0.09	0.03	0.01	--	--
JUN 20...	0.20	0.03	0.60	<0.20	0.29	<0.01	0.02	3.8	2.5

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
NOV 07...	<10	54	<3	12	54	13	<10	2	5	<1	1300	<6
DEC 20...	--	--	--	11	--	25	--	--	6	--	--	--
FEB 17...	20	80	<3	6	40	19	<10	<1	5	<1	920	<6
MAR 21...	--	--	--	5	--	5	--	--	--	--	--	--
MAY 16...	30	60	<3	36	22	4	<10	<1	2	<1	470	<6
JUN 20...	--	--	--	74	--	11	--	--	1	--	--	--
JUL 20...	--	--	--	28	--	4	--	--	1	--	--	--
AUG 04...	--	--	--	22	--	5	--	--	2	--	--	--

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 07...	1140	3530	120	91
FEB 17...	1030	2580	731	100
MAY 16...	1030	13700	702	66
16...	1540	150000	657	85
JUN 20...	1150	40000	480	--

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1330	1230	1210	1220	1220	---	867	615	426	384	481	986
2	1320	1250	1210	1210	1210	---	857	601	426	384	491	1020
3	1350	1280	1230	1210	1230	---	853	608	430	382	503	1040
4	1310	1320	1200	1220	1230	---	850	611	433	376	522	1050
5	1270	1330	1170	1240	1210	---	842	608	417	365	536	1050
6	1270	1340	1190	1310	1190	---	---	602	418	354	546	1070
7	1280	1340	1180	1280	1190	---	---	604	404	345	555	1120
8	1280	1330	1170	1250	1200	---	---	613	375	332	562	1190
9	1300	1310	1210	1210	1210	---	---	624	355	317	580	1140
10	1280	1310	1190	1180	1210	---	---	634	348	305	610	1080
11	1280	1300	1190	1170	1210	---	---	635	339	295	632	1060
12	1280	1300	1210	1170	1220	---	---	624	337	298	652	1050
13	1280	1300	1280	1180	1220	---	---	615	329	311	667	1050
14	1290	1330	1370	1200	1200	---	---	603	310	323	685	1060
15	1290	1330	1360	1220	1200	---	---	580	303	331	706	1080
16	1300	1320	1290	1220	1160	---	---	536	298	338	724	1140
17	1290	1330	1220	1230	1220	---	---	463	295	345	748	1220
18	1300	1330	1190	1230	---	---	---	450	295	353	786	1120
19	1270	1320	1200	1230	---	---	716	446	299	361	829	1110
20	1260	1260	1220	1240	---	---	705	430	308	370	865	1100
21	1260	1200	1240	1260	---	---	698	423	323	376	889	1110
22	1250	1210	1250	1260	---	---	691	412	330	379	912	1110
23	1240	1200	1240	1250	---	---	685	402	335	380	940	1160
24	1240	1200	1240	1260	---	---	680	409	341	392	932	1230
25	1240	1200	1250	1260	---	---	673	414	346	402	928	1240
26	1240	1200	1240	1260	---	---	685	418	351	412	919	1190
27	1240	1220	1210	1310	---	---	729	415	358	426	929	1180
28	1240	1240	1200	1280	---	---	713	412	364	442	925	1190
29	1240	1230	1190	1230	---	---	648	412	373	454	927	1210
30	1230	1200	1200	1230	---	830	630	420	379	465	930	1210
31	1230	---	1220	1220	---	875	---	424	---	475	955	---
MEAN	1270	1280	1220	1230	---	---	---	518	355	370	738	1120
MAX	1350	1340	1370	1310	---	---	---	635	433	475	955	1240
MIN	1230	1200	1170	1170	---	---	---	402	295	295	481	986

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	15.7	14.5	8.7	7.8	1.4	.2	1.8	.6	4.4	2.5	---	---
2	15.1	13.8	8.0	7.3	1.6	.4	.6	.0	5.4	3.6	---	---
3	15.1	14.1	7.8	7.5	2.2	.9	.1	.0	5.7	4.0	---	---
4	14.9	14.0	8.0	6.9	2.7	1.8	.2	.0	5.8	4.3	---	---
5	14.5	13.8	8.1	7.0	3.3	2.6	1.0	.1	5.8	4.3	---	---
6	14.4	13.0	7.8	6.6	4.1	3.3	1.9	.7	5.9	4.1	---	---
7	14.3	13.1	8.2	6.7	4.0	3.7	1.4	1.0	5.9	4.3	---	---
8	14.3	12.4	8.8	7.5	3.7	2.8	1.7	1.0	5.3	4.7	---	---
9	14.0	12.5	8.3	7.2	2.8	1.1	2.8	1.7	5.1	4.5	---	---
10	14.0	12.2	8.0	6.9	1.1	.0	3.4	2.3	5.8	4.1	---	---
11	13.9	12.2	7.9	6.8	.6	.0	3.6	2.6	5.3	4.8	---	---
12	14.1	12.4	7.9	7.4	.8	.0	4.5	3.1	5.0	4.4	---	---
13	13.9	12.4	7.5	5.7	1.1	.5	4.6	3.6	5.4	4.0	---	---
14	13.6	12.7	5.7	4.7	1.9	1.0	5.7	4.2	5.5	4.4	---	---
15	12.7	11.5	4.7	3.7	1.5	.7	5.3	4.7	5.1	3.7	---	---
16	11.5	10.6	3.7	3.4	1.0	.2	5.0	4.1	4.8	3.4	---	---
17	10.6	9.7	4.2	3.2	1.1	.0	4.5	3.6	---	---	---	---
18	11.2	9.7	3.9	3.5	1.1	.0	3.6	2.6	---	---	---	---
19	11.5	9.7	4.6	3.5	1.1	.1	2.6	1.6	---	---	---	---
20	11.4	9.9	4.0	2.9	1.1	.3	2.1	.9	---	---	---	---
21	11.4	9.8	4.2	3.6	.9	.0	1.9	1.0	---	---	---	---
22	11.6	10.0	4.5	3.4	.9	.0	1.5	.4	---	---	---	---
23	11.6	10.1	3.9	3.0	1.3	.5	.7	.0	---	---	---	---
24	11.1	10.1	3.3	2.4	2.1	1.2	.8	.0	---	---	---	---
25	10.9	9.3	3.7	2.5	2.8	1.9	2.2	.7	---	---	---	---
26	10.9	9.5	3.0	1.8	3.4	2.5	2.6	1.8	---	---	---	---
27	10.3	9.7	2.1	1.4	3.2	2.6	3.5	2.2	---	---	---	---
28	10.7	9.1	2.2	1.1	2.9	2.4	3.7	2.4	---	---	---	---
29	10.6	9.4	1.3	.2	3.1	2.5	4.0	2.6	---	---	---	---
30	10.7	9.5	1.3	.2	2.9	2.5	3.7	2.4	---	---	---	---
31	9.5	8.4	---	---	2.6	1.8	3.5	2.4	---	---	8.5	6.0
MONTH	15.7	8.4	8.8	.2	4.1	.0	5.7	.0	---	---	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.8	7.2	12.5	11.0	14.7	11.5	13.8	12.8	19.2	16.9	22.1	20.8
2	10.5	8.3	12.4	10.3	14.4	13.0	13.7	12.3	19.1	17.1	22.9	20.8
3	11.7	9.0	11.6	9.8	13.7	12.1	13.3	12.6	19.2	17.7	23.2	21.3
4	12.1	9.8	12.0	9.5	12.8	11.5	12.9	11.8	19.9	18.0	22.9	21.4
5	---	---	11.9	10.3	13.8	11.8	13.9	12.3	20.3	18.5	22.3	21.0
6	---	---	11.4	10.1	14.0	12.5	15.2	13.1	20.4	18.9	22.5	20.4
7	---	---	11.1	9.8	13.2	11.8	16.2	14.5	19.9	18.5	22.4	21.1
8	---	---	11.4	9.4	12.4	11.3	16.4	14.9	20.6	19.0	21.6	19.8
9	---	---	12.3	9.9	11.9	10.6	16.6	15.4	20.8	19.4	21.1	19.5
10	---	---	12.6	10.6	12.7	10.8	16.4	15.2	21.2	19.9	20.7	19.1
11	---	---	12.4	10.7	13.8	11.7	16.5	15.4	21.4	20.0	20.0	18.8
12	---	---	12.0	10.7	14.6	12.6	16.4	15.4	21.2	20.3	19.8	18.1
13	---	---	11.2	9.5	15.1	13.4	16.3	15.3	21.8	20.6	19.4	17.8
14	---	---	12.7	9.7	14.8	13.3	15.6	14.8	22.0	20.8	19.7	17.7
15	---	---	14.6	11.6	14.5	13.5	15.6	14.5	21.7	20.0	19.9	17.6
16	---	---	14.3	12.3	14.2	12.7	16.3	14.8	21.1	20.0	20.0	18.0
17	---	---	13.1	11.3	12.9	11.4	16.3	15.5	21.0	19.3	20.0	18.2
18	---	---	12.7	10.6	11.4	9.9	16.1	15.3	21.4	20.1	19.1	17.6
19	10.6	9.4	13.8	11.0	13.1	11.1	16.3	14.8	21.3	20.2	18.6	16.8
20	10.8	9.5	14.1	11.8	13.9	12.4	16.6	15.3	20.2	19.2	18.0	17.0
21	10.7	9.0	14.1	12.0	13.9	12.9	16.6	15.5	21.4	18.9	17.1	15.3
22	10.9	9.4	13.8	11.6	14.1	12.9	16.6	15.0	22.3	20.4	15.6	13.6
23	10.8	9.7	13.2	11.6	14.2	13.0	16.9	15.1	23.0	21.8	14.4	12.9
24	11.1	9.2	11.9	11.0	14.3	12.9	17.2	15.3	22.6	21.4	15.0	13.4
25	11.4	9.7	11.5	10.3	14.4	13.1	17.6	15.8	22.5	20.7	14.2	12.3
26	12.6	10.3	11.0	10.0	14.8	13.2	17.9	16.1	22.2	20.9	14.4	12.8
27	13.0	11.3	12.5	9.8	15.3	13.8	18.2	16.5	22.0	21.0	15.4	13.4
28	12.4	11.7	12.4	10.7	15.3	14.0	18.6	16.7	22.5	20.5	15.3	14.4
29	12.4	10.9	11.6	10.0	14.9	13.9	19.1	17.2	22.3	20.7	15.2	14.5
30	12.7	12.0	12.5	9.8	14.1	13.1	19.0	17.9	22.4	21.2	14.7	13.5
31	---	---	12.6	10.5	---	---	19.3	17.3	22.5	20.8	---	---
MONTH	---	---	14.6	9.4	15.3	9.9	19.3	11.8	23.0	16.9	23.2	12.3

09165000 DOLORES RIVER BELOW RICO, CO

LOCATION.--Lat 37°38'20", long 108°03'35", Dolores County, Hydrologic Unit 14030002, on left bank at upstream side of Montelores bridge northwest of State Highway 145 (relocated), at Dolores-Montezuma County line, 0.5 mi upstream from Ryman Creek, and 4.0 mi southwest of Rico.

DRAINAGE AREA.--105 mi².

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

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,422.23 ft above sea level.

REMARKS.--Estimated daily discharges: Nov. 3-6, 8, Nov. 15 to Mar. 15, Apr. 22-26 and Sept. 22-30. 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 elsewhere in this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since at least 1885 occurred Oct. 5, 1911.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	33	22	16	15	48	42	126	342	1160	149	96
2	62	33	21	16	15	45	47	127	517	1020	141	92
3	55	30	22	16	15	43	45	124	588	886	131	87
4	59	27	23	17	16	43	52	127	611	715	108	80
5	61	30	23	17	16	45	67	146	775	670	120	75
6	59	32	22	16	17	42	83	135	925	767	115	75
7	55	33	21	16	17	36	105	124	923	829	109	79
8	51	33	20	16	18	35	123	110	825	810	106	94
9	50	32	20	16	18	36	135	106	733	877	111	95
10	46	30	19	16	18	38	108	123	762	868	109	90
11	45	33	19	16	18	44	93	133	849	791	103	76
12	42	35	20	16	18	48	87	139	1060	741	103	70
13	40	33	20	15	18	48	101	129	1210	700	103	63
14	42	29	19	15	17	50	118	131	1330	738	103	60
15	45	30	18	15	18	54	120	216	1470	585	86	58
16	39	31	18	15	18	58	106	314	1350	517	83	56
17	40	32	19	14	19	61	101	303	1510	482	80	55
18	43	32	19	13	20	60	90	277	1420	468	77	57
19	41	33	19	14	22	66	84	308	1150	436	73	54
20	39	32	19	15	25	68	79	363	1210	397	119	50
21	39	29	19	14	32	73	72	465	1200	355	148	50
22	38	24	19	14	35	81	70	603	1190	317	141	49
23	39	23	19	14	40	75	66	600	1130	283	129	48
24	40	24	19	14	42	72	63	468	1090	244	120	47
25	37	24	18	15	45	65	65	402	1110	232	136	46
26	37	23	17	15	45	60	68	324	1100	217	159	45
27	35	22	17	14	45	52	84	300	1020	205	168	44
28	36	21	17	14	47	51	93	280	900	193	166	48
29	35	21	18	14	---	49	111	247	1010	180	170	60
30	36	22	17	14	---	41	136	227	1070	169	128	78
31	28	---	16	14	---	40	---	240	---	160	108	---
TOTAL	1396	866	599	466	689	1627	2614	7717	30380	17012	3702	1977
MEAN	45.0	28.9	19.3	15.0	24.6	52.5	87.1	249	1013	549	119	65.9
MAX	82	35	23	17	47	81	136	603	1510	1160	170	96
MIN	28	21	16	13	15	35	42	106	342	160	73	44
AC-FT	2770	1720	1190	924	1370	3230	5180	15310	60260	33740	7340	3920

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1995, BY WATER YEAR (WY)

	MEAN	44.6	29.5	21.8	18.8	18.6	30.9	127	454	574	176	80.9	61.6
MAX	133	65.9	42.6	37.7	33.7	72.2	242	1015	1288	646	255	224	
(WY)	1973	1987	1958	1958	1984	1972	1962	1958	1957	1957	1957	1982	
MIN	14.5	12.1	7.81	7.74	7.49	11.0	42.9	98.9	70.7	37.1	31.0	17.1	
(WY)	1957	1957	1990	1990	1994	1964	1975	1977	1977	1959	1972	1956	

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1952 - 1995			
ANNUAL TOTAL	36852.5				69045							
ANNUAL MEAN	101				189				137			
HIGHEST ANNUAL MEAN									230			
LOWEST ANNUAL MEAN									40.1			
HIGHEST DAILY MEAN	835				1510				1810			
LOWEST DAILY MEAN	5.9				13				4.8			
ANNUAL SEVEN-DAY MINIMUM	7.1				14				6.3			
INSTANTANEOUS PEAK FLOW					2140				a 2170			
INSTANTANEOUS PEAK STAGE					5.87				b 5.95			
ANNUAL RUNOFF (AC-FT)	73100				137000				98960			
10 PERCENT EXCEEDS	317				735				408			
50 PERCENT EXCEEDS	35				57				40			
90 PERCENT EXCEEDS	8.0				17				15			

a-From rating curve extended above 1620 ft³/s.
b-Maximum gage height, 6.15 ft, Jun 10, 1952.

09166500 DOLORES RIVER AT DOLORES, CO

LOCATION.--Lat 37°28'21", long 108°29'49", in SW¹/4SW¹/4 sec.10, T.37 N., R.15 W., Montezuma County, Hydrologic Unit 14030002, on left bank 0.25 mi upstream from bridge on State Highway 184 in Dolores and 0.8 mi upstream from Lost Canyon Creek.

DRAINAGE AREA.--504 mi².

PERIOD OF RECORD.--June 1895 to October 1903, August 1910 to November 1912, October 1921 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 859: 1937. WRD Colo. 1972: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,940 ft above sea level, from topographic map. See WSP 1713 or 1733 for history of changes prior to Oct. 7, 1952. Oct. 7, 1952 to Nov. 16, 1983, at site 0.4 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Nov. 14, 15, 17, 20, 21, and Nov. 24 to Feb. 22. 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 elsewhere in 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	194	64	58	47	42	156	252	1130	1760	2470	346	232
2	172	67	58	44	46	162	269	1120	2400	2220	328	224
3	149	77	56	46	47	147	251	1150	2710	1910	309	214
4	145	71	58	46	48	145	314	1130	2890	1610	300	202
5	147	60	60	47	49	140	443	1400	3320	1320	289	187
6	122	76	62	49	50	159	585	1250	3690	1440	280	184
7	110	76	60	47	52	122	683	1030	3560	1610	273	194
8	105	90	58	46	54	117	797	903	3150	1550	264	216
9	99	88	54	47	56	120	879	850	2890	1570	261	271
10	93	76	53	47	58	129	650	945	2880	1660	256	229
11	87	79	52	47	56	185	528	1050	3090	1460	256	206
12	84	108	52	47	56	267	473	1150	3590	1370	252	190
13	81	115	54	47	58	223	589	1060	4020	1250	251	177
14	82	105	55	46	58	228	750	1060	4020	1430	241	168
15	95	90	53	46	56	295	729	1570	4210	1120	230	171
16	97	76	50	46	56	370	603	2200	4200	999	214	161
17	91	78	50	45	58	433	627	2140	4010	926	209	155
18	90	81	53	42	60	440	535	1750	4150	885	204	155
19	92	84	53	39	64	499	495	1910	3270	868	196	155
20	88	84	53	40	68	508	454	2130	3240	779	282	149
21	83	82	53	44	82	559	427	2490	3080	708	300	143
22	82	81	53	46	100	660	407	2870	2870	647	360	141
23	82	59	52	43	125	545	394	2850	2780	601	321	114
24	83	60	53	41	136	523	418	2350	2640	522	291	102
25	85	60	53	42	152	429	492	2090	2600	491	287	101
26	79	62	52	45	155	365	622	1730	2570	447	422	96
27	77	60	50	47	148	304	680	1630	2480	398	368	99
28	76	57	48	45	154	306	741	1590	2060	386	335	108
29	77	54	48	43	---	289	902	1460	2190	364	348	202
30	74	54	50	42	---	238	1150	1370	2300	345	285	240
31	71	---	51	41	---	242	---	1450	---	339	256	---
TOTAL	3092	2274	1665	1390	2144	9305	17139	48808	92620	33695	8814	5186
MEAN	99.7	75.8	53.7	44.8	76.6	300	571	1574	3087	1087	284	173
MAX	194	115	62	49	155	660	1150	2870	4210	2470	422	271
MIN	71	54	48	39	42	117	251	850	1760	339	196	96
AC-FT	6130	4510	3300	2760	4250	18460	34000	96810	183700	66830	17480	10290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1896 - 1995, BY WATER YEAR (WY)

	MEAN	134	84.0	58.7	52.3	56.6	126	753	1742	1394	418	236	181
MAX	1247	453	199	151	140	436	1955	3625	3470	1490	637	1354	
(WY)	1942	1942	1987	1987	1987	1989	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1896 - 1995

ANNUAL TOTAL	118558	226132	
ANNUAL MEAN	325	620	
HIGHEST ANNUAL MEAN			437
LOWEST ANNUAL MEAN			790
HIGHEST DAILY MEAN	2320	4210	6950
LOWEST DAILY MEAN	28	39	8.0
ANNUAL SEVEN-DAY MINIMUM	33	42	12
INSTANTANEOUS PEAK FLOW		5340	10000
INSTANTANEOUS PEAK STAGE		6.67	10.20
ANNUAL RUNOFF (AC-FT)	235200	448500	316800
10 PERCENT EXCEEDS	1090	2130	1410
50 PERCENT EXCEEDS	114	196	121
90 PERCENT EXCEEDS	36	49	40

a-Site and datum then in use, from rating curve extended above 2800 ft³/s.

09166950 LOST CANYON CREEK NEAR DOLORES, CO

LOCATION.--Lat 37°26'46", long 108°28'07", in SE¹/4SE¹/4 sec.23, T.37N., R.15W., Montezuma County, Hydrologic Unit 14030002, on right bank 2.5 mi southeast of Dolores and 3.0 mi upstream from mouth.

DRAINAGE AREA.--71.3 mi².

PERIOD OF RECORD.--April 1984 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,030 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 27, Dec. 1, 2, 10-22, 26-28 and Jan. 5 to Feb. 22. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.02	.00	.68	8.1	37	240	93	.81	.38	1.4
2	.00	.00	.07	.00	.75	8.5	43	242	142	.82	.25	1.0
3	.00	.00	.06	.00	.86	8.5	40	278	142	.65	.32	1.2
4	.00	.00	.00	.00	1.3	9.7	61	244	206	.76	.31	1.1
5	.00	.00	.00	.03	1.3	12	111	308	221	.66	.32	.97
6	.00	.00	.00	.02	1.2	27	173	262	228	.46	.31	.59
7	.00	.00	.00	.01	1.2	37	202	164	189	.31	.44	.65
8	.00	.00	.00	.01	1.1	29	230	126	148	.23	.68	.60
9	.00	.00	.02	.01	1.0	21	255	113	112	.19	.77	.56
10	.00	.00	.02	.01	.96	23	147	155	103	.18	.66	.38
11	.00	.00	.04	.02	.92	37	102	168	103	.18	.69	.23
12	.00	.00	.11	.02	.88	77	73	178	113	.16	.79	.19
13	.00	.00	.25	.04	.86	67	119	118	120	.27	.82	.14
14	.00	.00	.19	.08	.86	75	194	110	111	.33	1.1	.12
15	.00	.00	.10	.26	1.2	102	173	262	104	.21	1.1	.11
16	.00	.00	.13	.15	1.7	124	98	365	94	.18	1.2	.09
17	.00	.00	.26	.10	2.2	139	97	312	159	.23	1.2	.08
18	.00	.00	.48	.09	1.9	143	70	195	196	.25	1.0	.06
19	.00	.00	.43	.08	1.8	158	60	227	88	.17	1.1	.04
20	.00	.00	.38	.09	2.0	153	55	265	43	.33	1.5	.01
21	.00	.00	.17	.10	2.3	173	53	295	5.9	.29	1.4	.00
22	.00	.00	.04	.14	2.4	210	63	319	3.6	.29	2.8	.00
23	.00	.00	.00	.18	3.1	149	73	274	2.6	.33	1.5	.00
24	.00	.00	.00	.24	3.3	131	80	161	2.0	.39	1.7	.00
25	.00	.00	.01	.34	4.1	96	85	140	1.5	.45	1.2	.00
26	.00	.00	.02	.45	4.8	72	132	102	1.2	.38	1.1	.00
27	.00	.00	.04	.54	5.3	55	165	90	1.1	.37	1.2	.00
28	.00	.02	.02	.56	5.5	49	181	100	1.0	.45	1.1	.07
29	.00	.00	.00	.58	---	43	184	75	.86	.56	1.2	.07
30	.00	.00	.00	.60	---	38	251	54	.77	.47	1.3	.04
31	.00	---	.00	.64	---	36	---	53	---	.49	1.3	---
TOTAL	0.00	0.02	2.86	5.39	55.47	2310.8	3607	5995	2735.53	11.85	30.74	9.70
MEAN	.000	.001	.092	.17	1.98	74.5	120	193	91.2	.38	.99	.32
MAX	.00	.02	.48	.64	5.5	210	255	365	228	.82	2.8	1.4
MIN	.00	.00	.00	.00	.68	8.1	37	53	.77	.16	.25	.00
AC-FT	.00	.04	5.7	11	110	4580	7150	11890	5430	24	61	19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1995, BY WATER YEAR (WY)

	MEAN	2.46	5.62	2.23	1.27	2.00	37.1	136	123	13.4	.27	1.12
MAX	17.7	45.2	14.8	5.00	5.11	74.5	265	293	91.2	.87	1.62	5.16
(WY)	1987	1987	1987	1987	1987	1995	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 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1984 - 1995

	ANNUAL TOTAL	6740.92	14764.36	
ANNUAL MEAN		18.5	40.5	26.8
HIGHEST ANNUAL MEAN				49.9
LOWEST ANNUAL MEAN				.43
HIGHEST DAILY MEAN	269	Apr 19	365	May 16
LOWEST DAILY MEAN	a .00	Aug 12	a .00	Oct 1
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 12	.00	Oct 1
INSTANTANEOUS PEAK FLOW			526	May 16
INSTANTANEOUS PEAK STAGE			6.08	May 16
ANNUAL RUNOFF (AC-FT)	13370		29290	19400
10 PERCENT EXCEEDS	62		160	96
50 PERCENT EXCEEDS	.14		.66	.90
90 PERCENT EXCEEDS	.00		.00	.00

a-No flow many days each year.

09169500 DOLORES RIVER AT BEDROCK, CO

LOCATION.--Lat 38°18'37", long 108°53'05", in NW¹/4SW¹/4 sec.20, T.47 N., R.18 W., Montrose County, Hydrologic Unit 14030002, on right bank at upstream side of bridge, 0.4 mi southeast of Bedrock, and 3.1 mi upstream from East Paradox Creek.

DRAINAGE AREA.--2,024 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1917 to September 1922 (monthly discharge only for some periods, published in WSP 1313), August 1971 to current year. Statistical summary computed for 1985 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,940 ft above sea level, from topographic map. Prior to Aug. 1, 1971, nonrecording gage at different datum.

REMARKS.--Estimated daily discharges: Nov. 27 to Dec. 1, Dec. 8-11, 14-16, and Jan. 1-3, 24, 25. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	45	45	38	44	63	148	1500	2240	1530	140	102
2	99	45	53	40	43	70	145	1470	1820	1960	139	100
3	66	46	58	42	49	97	151	1580	1550	2180	118	95
4	60	50	61	43	49	95	167	1530	1540	1520	106	82
5	53	51	61	52	48	91	195	1550	1560	1320	106	75
6	44	53	65	52	47	131	366	1870	1560	931	103	77
7	43	56	60	53	47	171	567	1920	1550	788	103	79
8	92	51	50	53	49	159	614	2000	1570	810	100	80
9	102	51	45	49	51	106	672	2000	1630	879	97	84
10	61	51	42	49	49	95	611	1890	1540	815	98	90
11	48	53	45	51	49	98	376	1920	1310	907	98	81
12	42	53	48	51	49	119	321	2140	1290	752	97	74
13	40	53	48	48	48	430	441	2230	1290	635	98	73
14	40	58	50	49	48	286	755	2210	1310	570	101	72
15	41	67	50	49	51	229	939	2180	1300	472	102	72
16	42	61	50	50	61	311	877	2240	1150	414	101	71
17	49	56	50	47	72	389	912	2550	1610	346	99	72
18	57	56	47	44	62	513	1010	2620	1990	265	97	73
19	50	59	48	43	53	564	1030	2580	2710	241	98	75
20	45	61	46	42	52	687	1050	2620	2940	227	109	74
21	44	59	47	43	52	668	1060	2810	3100	218	190	71
22	44	58	44	42	55	918	1020	2920	3110	210	166	69
23	44	57	50	42	56	851	1030	2940	3020	202	142	68
24	44	57	54	42	56	563	1040	2850	2480	177	176	69
25	44	55	55	45	58	492	1130	2720	1800	162	148	69
26	45	54	54	45	56	386	1310	2700	1530	156	112	71
27	45	50	52	52	57	277	1380	2690	1290	150	107	72
28	45	50	49	53	60	219	1360	2670	1400	147	105	71
29	45	45	48	50	---	198	1420	2710	1380	145	107	193
30	45	42	46	48	---	187	1460	2810	1260	141	104	181
31	45	---	44	47	---	161	---	2670	---	141	104	---
TOTAL	1646	1603	1565	1454	1471	9624	23557	71090	53830	19411	3571	2535
MEAN	53.1	53.4	50.5	46.9	52.5	310	785	2293	1794	626	115	84.5
MAX	102	67	65	53	72	918	1460	2940	3110	2180	190	193
MIN	40	42	42	38	43	63	145	1470	1150	141	97	68
AC-FT	3260	3180	3100	2880	2920	19090	46730	141000	106800	38500	7080	5030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1995, BY WATER YEAR (WY)

MEAN	92.7	101	78.8	77.2	89.9	293	1064	1412	819	179	98.7	87.9
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1985 - 1995

ANNUAL TOTAL	77112	191357	
ANNUAL MEAN	211	524	
HIGHEST ANNUAL MEAN			a 367
LOWEST ANNUAL MEAN			724
HIGHEST DAILY MEAN	b 2060	May 20	3110
LOWEST DAILY MEAN	33	Feb 2	38
ANNUAL SEVEN-DAY MINIMUM	37	Jan 8	43
INSTANTANEOUS PEAK FLOW			3140
INSTANTANEOUS PEAK STAGE			7.56
ANNUAL RUNOFF (AC-FT)	153000	379600	265700
10 PERCENT EXCEEDS	782	1840	1220
50 PERCENT EXCEEDS	62	97	84
90 PERCENT EXCEEDS	41	45	38

a-Average discharge for 17 years (water years 1918-22, 1972-83), 497 ft³/s; 360100 acre-ft/yr, prior to completion of McPhee Reservoir.

b-Also occurred May 21-22.

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 ft³/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 TEMPERATURES: November 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since November 1979.

REMARKS.--Daily maximum and minimum specific conductance data available in district office. Specific conductance record is fair. Water temperature record is fair.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 6,970 microsiemens Aug. 14, 1987; minimum, 140 microsiemens May 25, 1983.

WATER TEMPERATURES: Maximum, 33.5°C Aug. 7, 1981; minimum, -0.5°C Dec. 3-8, 1982.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,790 microsiemens Feb. 23; minimum recorded, 247 microsiemens Jul. 3.

WATER TEMPERATURES: Maximum recorded, 28.0°C Aug. 11; minimum recorded, 0.0°C many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO
OCT										
11...	1540	48	820	8.4	14.0	220	61	17	75	2
NOV										
15...	1545	71	600	8.3	3.0	160	46	11	60	2
FEB										
22...	1355	57	805	8.4	6.5	190	51	14	86	3
APR										
06...	1020	425	603	8.3	11.0	210	54	18	41	1
25...	1320	1060	374	8.2	10.5	150	41	11	16	0.6
MAY										
22...	1515	2940	307	8.2	12.5	130	39	8.0	10	0.4
JUN										
15...	1010	1330	310	8.2	16.5	120	36	7.5	13	0.5
28...	0820	1370	301	8.3	15.5	120	35	7.2	13	0.5
JUL										
12...	0805	752	287	8.2	18.0	110	35	6.6	13	0.5
25...	1245	160	547	8.4	23.0	160	47	11	46	2
AUG										
17...	0810	101	498	8.4	21.0	130	37	8.2	48	2
29...	0925	101	629	8.3	22.0	190	56	12	49	2

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT									
11...	4.0	124	140	89	0.1	3.4	464	0.63	60.1
NOV									
15...	3.2	125	36	93	0.1	2.2	326	0.44	62.6
FEB									
22...	4.2	137	68	120	0.1	3.6	429	0.58	66.5
APR									
06...	2.7	110	150	25	0.1	6.0	363	0.49	416
25...	0.7	105	68	10	0.1	4.7	214	0.29	614
MAY									
22...	1.7	103	40	7.7	0.1	3.8	172	0.23	1370
JUN									
15...	1.6	98	41	11	<0.1	4.4	173	0.24	622
28...	1.6	94	37	12	<0.1	4.7	167	0.23	617
JUL									
12...	1.5	90	29	14	<0.1	4.7	158	0.21	320
25...	2.5	111	67	56	0.1	4.6	301	0.41	130
AUG									
17...	2.9	105	25	67	0.1	2.0	253	0.34	69.0
29...	3.4	104	120	58	0.2	4.4	365	0.50	99.6

09169500 DOLORES RIVER AT BEDROCK, CO--Continued

SPECIFIC CONDUCTANCE, MICROSEIMENS/CM @ 25 DEG. C, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	762	638	769	839	821	1010	---	319	311	277	521	511
2	667	648	752	855	858	1210	---	315	321	256	509	508
3	486	653	732	857	869	1240	---	315	330	251	509	505
4	532	---	745	917	897	1360	---	316	327	268	543	492
5	573	---	732	869	891	1130	---	317	320	297	528	515
6	571	---	706	873	856	974	594	317	341	295	527	515
7	557	---	757	911	862	983	423	317	336	320	523	511
8	640	---	730	867	846	838	344	317	324	321	520	526
9	463	---	721	856	836	970	328	318	311	299	520	504
10	515	---	738	851	901	1250	328	317	308	294	515	475
11	751	---	718	867	894	1020	358	315	316	280	521	491
12	685	---	768	837	857	902	420	314	318	283	530	491
13	626	---	765	822	848	978	464	313	319	289	512	492
14	608	---	754	834	861	980	402	313	318	308	504	494
15	602	---	789	819	844	956	397	311	314	326	511	495
16	625	---	755	798	889	895	392	307	311	462	488	495
17	614	668	811	792	908	825	387	306	311	521	488	493
18	603	642	808	843	896	764	384	304	320	457	483	563
19	620	630	800	827	819	717	383	305	305	468	475	531
20	626	655	830	781	787	662	381	304	277	502	480	500
21	627	1070	874	819	759	599	380	301	265	524	467	490
22	627	961	910	824	796	578	378	297	256	517	400	485
23	632	767	880	856	1400	544	378	293	255	508	427	493
24	642	693	860	871	1320	537	377	296	258	528	548	500
25	631	678	843	905	1120	461	365	294	274	553	634	495
26	621	689	821	864	1040	425	344	292	283	555	981	492
27	624	704	813	886	974	418	315	293	288	572	1300	491
28	629	710	792	905	954	417	322	292	291	569	842	487
29	639	688	792	848	---	---	330	290	276	565	678	486
30	644	780	803	843	---	---	333	305	285	551	565	423
31	646	---	815	833	---	---	---	310	---	541	530	---
MEAN	616	---	787	851	914	---	---	307	302	412	567	498
MAX	762	---	910	917	1400	---	---	319	341	572	1300	563
MIN	463	---	706	781	759	---	---	290	255	251	400	423

09169500 DOLORES RIVER AT BEDROCK, CO--Continued

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	16.4	14.6	8.2	5.3	1.0	.3	.8	.0	3.9	.6	8.7	7.7
2	17.1	13.5	7.7	6.7	1.0	.0	.6	.0	5.0	1.7	9.6	7.3
3	15.6	13.8	7.5	6.5	.9	.0	.8	.0	4.7	1.8	9.1	7.4
4	16.1	13.4	---	---	1.5	.1	.3	.0	4.6	1.6	10.3	7.5
5	14.8	12.5	---	---	.8	.3	.4	.0	4.8	1.5	8.8	6.8
6	14.2	11.1	---	---	2.6	.7	.9	.0	6.7	1.7	9.6	6.7
7	14.2	11.9	---	---	1.9	.6	.4	.0	5.0	1.8	8.2	5.0
8	15.0	11.1	---	---	2.0	.2	.5	.0	3.9	2.1	8.0	4.9
9	15.0	10.9	---	---	.9	.0	1.9	.2	4.0	2.2	9.4	5.0
10	14.9	10.8	---	---	.8	.0	1.4	.6	5.5	2.3	10.4	5.7
11	14.7	11.3	---	---	1.0	.0	2.8	1.1	4.4	3.3	9.5	7.6
12	14.5	10.8	---	---	.9	.0	2.9	1.6	5.5	3.1	10.4	7.2
13	13.6	10.8	---	---	.5	.0	2.9	.9	5.3	3.9	10.2	7.6
14	13.3	11.9	---	---	.9	.0	3.6	1.5	6.3	4.9	10.7	7.0
15	12.3	9.7	---	---	.4	.0	3.5	2.3	6.9	3.3	10.9	7.9
16	9.7	8.2	---	---	.6	.0	3.2	2.0	6.2	2.8	12.2	8.6
17	9.0	7.8	3.5	1.6	.7	.0	2.6	1.0	6.4	2.4	12.1	9.8
18	10.1	7.7	3.4	2.1	.6	.0	1.8	.0	6.8	2.8	11.7	9.3
19	12.0	8.3	3.2	1.6	.7	.0	1.3	.0	6.8	3.4	11.9	9.3
20	11.6	8.5	2.5	.3	.7	.0	1.0	.0	7.7	3.6	11.1	8.4
21	12.0	8.4	2.5	.7	.7	.0	1.4	.0	7.9	4.6	10.6	8.9
22	11.8	8.1	4.0	1.6	.5	.0	1.4	.0	9.2	5.2	10.6	8.0
23	11.7	8.1	2.1	.3	.4	.0	1.1	.0	9.4	5.4	9.6	7.2
24	10.5	8.4	1.6	.3	.5	.1	.6	.0	9.5	5.5	9.6	6.8
25	10.8	6.8	2.4	.3	1.0	.1	1.5	.3	9.7	6.4	7.6	6.3
26	10.9	7.5	1.7	1.0	1.8	.0	3.4	.9	10.0	6.3	7.9	5.4
27	10.6	7.8	1.6	.3	2.1	.3	3.3	1.5	9.4	6.1	8.9	5.1
28	11.5	7.7	1.4	.3	1.8	.1	3.5	.7	9.1	7.1	8.9	6.1
29	11.3	8.0	.9	.3	1.2	.0	3.0	.3	---	---	---	---
30	11.5	9.2	1.0	.3	2.0	.5	2.5	.0	---	---	---	---
31	9.2	6.3	---	---	2.3	.2	2.9	.1	---	---	---	---
MONTH	17.1	6.3	---	---	2.6	.0	3.6	.0	10.0	.6	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	11.8	10.5	14.5	11.2	16.6	14.3	25.8	21.0	25.6	21.5
2	---	---	10.6	9.3	14.2	12.2	15.2	13.9	25.8	21.0	26.3	21.9
3	---	---	11.3	9.0	13.8	12.4	15.0	13.1	25.4	21.5	26.5	21.9
4	---	---	11.5	10.1	13.7	12.0	14.2	11.9	26.6	22.3	25.6	21.6
5	---	---	11.5	10.7	14.8	12.8	16.5	13.1	26.7	22.0	24.7	20.9
6	14.2	11.0	10.8	9.6	15.5	13.2	19.3	14.6	26.0	21.8	24.8	21.6
7	13.6	10.6	9.6	8.5	14.7	13.3	20.5	16.2	25.8	21.8	24.6	21.8
8	13.2	10.3	9.9	8.4	14.3	12.5	21.6	17.4	27.2	22.4	22.6	20.5
9	12.0	8.1	10.9	9.3	13.4	11.2	21.4	17.6	25.4	22.6	23.0	19.5
10	9.9	7.0	10.9	10.0	14.4	11.4	21.6	17.6	26.0	21.9	22.6	19.3
11	11.0	6.5	11.2	9.8	16.3	13.3	21.5	18.0	28.0	23.0	22.5	18.2
12	12.4	7.9	11.2	10.0	17.6	14.2	21.2	17.9	26.3	23.5	22.5	17.5
13	13.0	9.9	10.7	8.7	17.7	15.1	20.9	18.2	27.0	22.4	22.2	17.5
14	11.7	9.2	11.9	9.7	18.0	15.4	21.4	18.1	26.1	23.2	21.8	18.0
15	10.4	9.2	13.1	10.5	17.8	15.7	22.8	18.2	26.4	21.2	22.5	17.4
16	11.1	7.6	12.7	11.2	16.2	14.1	22.6	19.0	24.0	21.9	22.9	17.6
17	9.8	7.9	11.5	9.8	14.1	11.1	21.9	19.9	26.4	21.1	20.7	18.3
18	9.8	7.6	11.0	8.7	13.0	10.3	21.9	19.9	26.6	21.4	21.1	18.2
19	9.5	7.1	13.0	9.9	14.4	11.4	22.7	19.5	24.3	21.6	21.3	16.5
20	8.8	7.3	13.2	10.2	14.7	11.9	23.5	19.7	24.2	20.8	20.4	16.4
21	8.9	6.5	12.9	10.4	14.6	11.9	23.0	20.5	24.2	21.4	19.5	15.3
22	9.5	6.6	12.5	10.4	14.5	11.8	23.1	18.9	26.8	22.4	17.3	13.0
23	9.7	7.9	11.7	10.3	14.6	11.7	23.5	18.9	25.8	23.3	17.1	12.4
24	10.3	6.8	11.7	9.6	15.4	11.9	24.8	19.9	24.4	22.5	16.0	14.2
25	11.6	8.6	11.0	9.5	16.2	12.7	25.3	20.6	24.4	21.2	15.7	11.9
26	12.7	9.2	10.7	9.6	16.8	14.6	25.5	21.0	26.5	21.8	16.8	13.1
27	12.0	10.2	12.0	9.1	17.7	15.5	26.1	20.9	25.9	22.9	17.9	13.4
28	12.0	10.3	11.2	9.9	18.2	15.6	26.7	21.7	25.9	21.9	16.7	15.2
29	12.3	10.0	10.4	8.7	17.3	15.8	26.5	22.7	26.2	21.9	16.0	13.3
30	13.2	10.8	11.0	9.2	16.2	14.9	26.0	22.7	26.0	21.7	16.9	13.3
31	---	---	12.7	10.5	---	---	26.4	22.0	26.4	21.4	---	---
MONTH	---	---	13.2	8.4	18.2	10.3	26.7	11.9	28.0	20.8	26.5	11.9

09170800 WEST PARADOX CREEK ABOVE BEDROCK, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°19'54", long 108°53'59", in NE¹/₄NW¹/₄ sec.18, T.47 N, R.18 W, Montrose County. Site is 1,000 ft downstream from former surface water station, 1.3 mi northwest of Bedrock, and 2.6 mi upstream from mouth.

DRAINAGE AREA.-- 53.3 mi².

PERIOD OF RECORD.--Chemical analyses: August 1987 to current year.

REMARKS.--Natural flow affected by water imported from Rock Creek through Buckeye Reservoir. Diversion for irrigation of about 2,500 acres.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO
OCT									
11...	1430	1380	8.3	12.0	720	160	78	40	0.6
NOV									
15...	1330	1510	8.3	2.0	800	170	92	46	0.7
FEB									
22...	1130	1100	8.4	7.0	550	110	66	29	0.5
APR									
06...	0920	619	8.2	8.5	300	69	30	13	0.3
25...	0845	1140	8.4	8.0	550	110	66	30	0.6
MAY									
22...	1230	1080	8.4	18.0	550	120	61	29	0.5
JUN									
15...	0930	500	8.1	16.0	230	54	23	11	0.3
28...	1045	620	8.2	16.5	290	67	29	14	0.4
JUL									
12...	0715	767	8.1	17.0	350	82	36	23	0.5
25...	1130	1200	8.2	17.5	580	130	62	37	0.7
AUG									
17...	0725	1310	8.2	17.0	650	140	73	37	0.6
29...	0845	1370	8.2	18.0	710	150	82	36	0.6

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT								
11...	3.2	203	510	39	0.4	11	963	1.31
NOV								
15...	4.1	241	560	42	0.4	13	1070	1.46
FEB								
22...	2.8	214	350	25	0.4	12	724	0.98
APR								
06...	2.4	163	150	9.6	0.2	9.6	382	0.52
25...	--	215	320	25	0.3	8.6	--	--
MAY								
22...	3.0	210	350	23	0.3	8.1	720	0.98
JUN								
15...	1.9	121	120	8.5	0.2	6.5	298	0.40
28...	2.1	137	170	11	0.2	7.3	383	0.52
JUL								
12...	2.7	153	210	23	0.2	9.7	478	0.65
25...	4.6	203	390	39	0.3	12	797	1.08
AUG								
17...	4.5	232	440	35	0.4	8.3	877	1.19
29...	4.0	242	500	31	0.4	9.5	958	1.30

09171100 DOLORES RIVER NEAR BEDROCK, CO

LOCATION.--Lat 38°21'29", long 108°49'54", in SW¹/4NW¹/4 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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1971 to current year. Statistical summary computed for 1985 to current year.

REVISED RECORDS.--WDR CO-90-2: 1989.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,910 ft above sea level, from topographic map. Prior to Feb. 1, 1972, at site 400 ft upstream at datum 1.02 ft, higher.

REMARKS.--Estimated daily discharges: Nov. 27 to Dec. 2, Dec. 9-12, 15, 16, 18, 20-21, Jan. 1-3, 21, and 24-26. 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 ft³/s), by slope-area measurement at site 1,400 ft upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	54	47	40	51	74	178	1410	2150	1490	145	113
2	88	54	50	45	49	86	177	1370	1750	1900	141	111
3	78	54	64	45	54	109	179	1480	1490	2250	132	110
4	66	55	63	48	57	122	196	1460	1470	1610	114	101
5	61	57	67	51	56	116	214	1440	1500	1340	114	85
6	55	58	72	59	55	156	367	1700	1510	1040	110	83
7	51	60	69	57	55	185	550	1790	1500	927	111	84
8	66	59	68	61	57	206	622	1830	1510	950	109	89
9	106	57	55	59	60	135	667	1860	1590	1070	107	85
10	75	58	50	57	60	120	692	1760	1530	952	107	100
11	57	59	44	58	59	117	437	1760	1290	1010	107	91
12	51	60	50	61	58	136	363	1950	1260	827	106	80
13	48	60	53	58	58	410	432	2060	1270	721	104	76
14	48	60	56	58	57	340	705	2070	1280	627	111	75
15	49	67	55	57	60	268	940	2020	1280	561	109	75
16	49	67	55	60	68	321	916	2050	1140	452	110	74
17	52	59	51	57	78	391	922	2360	1480	404	108	74
18	60	60	52	49	70	510	1010	2490	1850	308	109	74
19	62	60	51	46	60	569	1020	2450	2620	281	108	76
20	56	65	50	45	60	671	1030	2500	2960	264	115	78
21	52	63	50	45	60	699	1040	2730	3170	250	198	76
22	52	62	52	44	61	833	1010	2820	3160	239	213	72
23	53	62	52	44	61	918	1020	2860	3130	228	174	71
24	53	62	57	47	60	599	1020	2780	2510	203	165	73
25	53	60	60	47	63	521	1080	2630	1780	171	218	73
26	53	60	59	50	63	421	1240	2610	1510	164	130	73
27	53	55	61	59	65	320	1310	2580	1270	159	121	74
28	54	55	58	60	68	264	1260	2550	1370	153	119	74
29	54	50	53	59	---	234	1330	2590	1400	152	118	187
30	54	47	53	53	---	227	1360	2730	1260	148	118	222
31	53	---	49	54	---	199	---	2610	---	147	116	---
TOTAL	1843	1759	1726	1633	1683	10277	23287	67300	52990	20998	3967	2729
MEAN	59.5	58.6	55.7	52.7	60.1	332	776	2171	1766	677	128	91.0
MAX	106	67	72	61	78	918	1360	2860	3170	2250	218	222
MIN	48	47	44	40	49	74	177	1370	1140	147	104	71
AC-FT	3660	3490	3420	3240	3340	20380	46190	133500	105100	41650	7870	5410

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1995, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	101	110	84.1	85.3	102	308	1099	1414	825	189	95.8
MAX	269	430	262	208	207	811	2552	3219	1766	677	203
(WY)	1987	1987	1987	1985	1987	1985	1985	1993	1995	1987	1986
MIN	33.3	38.8	33.1	34.5	48.2	46.6	27.3	30.4	16.0	44.9	53.0
(WY)	1992	1991	1991	1991	1991	1990	1990	1990	1990	1990	1991

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1985 - 1995

ANNUAL TOTAL	79503	190192	
ANNUAL MEAN	218	521	a 377
HIGHEST ANNUAL MEAN			711 1993
LOWEST ANNUAL MEAN			55.3 1990
HIGHEST DAILY MEAN	2060	May 20	3170 Jun 21 4550 May 6 1986
LOWEST DAILY MEAN	42	Jan 8	40 Jan 1 7.1 Jun 21 1990
ANNUAL SEVEN-DAY MINIMUM	44	Jan 7	45 Jan 19 10 Jun 16 1990
INSTANTANEOUS PEAK FLOW			c 3240 Jun 21 d 5260 May 6 1986
INSTANTANEOUS PEAK STAGE			c 9.00 Jun 21 10.82 May 6 1986
ANNUAL RUNOFF (AC-FT)	157700	377200	273100
10 PERCENT EXCEEDS	820	1750	1260
50 PERCENT EXCEEDS	65	107	92
90 PERCENT EXCEEDS	50	52	40

a-Average discharge for 12 years (water years 1972-83), 502 ft³/s; 363700 acre-ft/yr, prior to completion of McPhee Dam.

b-Minimum daily discharge for period of record, 0.12 ft³/s, Jul 17, 18, 1977.

c-Also occurred Jun 22.

d-Maximum discharge and stage for period of record, 9500 ft³/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 maximum and minimum specific conductance data available in district office. Interruptions in daily record are the result of severe probe fouling or instrument malfunctions. Daily specific conductance record is fair. Daily water temperature record is good.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 57,700 microsiemens, June 22, 1990 (may have been higher June 19-22 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, 0.0°C, many days during winter months.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum 18,200 microsiemens, Jan. 1; minimum recorded, 256 microsiemens, June 23.

WATER TEMPERATURE: Maximum, 29.3°C, Aug. 11; minimum, 0.0°C, many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO
OCT										
12...	0915	51	3310	8.4	8.0	300	71	31	530	13
NOV										
16...	1430	63	2680	8.2	3.0	220	52	21	440	13
FEB										
22...	1015	60	4810	8.3	3.5	330	72	36	860	21
APR										
06...	1330	445	925	8.2	13.0	220	57	20	93	3
24...	1630	992	448	8.3	10.5	150	41	11	28	1
MAY										
23...	0950	2870	320	8.2	11.0	130	39	7.9	13	0.5
JUN										
14...	1345	1300	352	8.2	18.0	130	38	8.1	19	0.7
27...	1545	1270	349	8.2	17.5	120	37	7.7	20	0.8
JUL										
12...	1415	827	449	8.2	21.0	120	36	7.5	40	2
25...	1040	169	3150	8.2	21.0	250	58	25	540	15
AUG										
16...	1735	108	2950	8.3	24.0	200	47	19	490	15
29...	1120	120	2450	8.2	22.5	250	66	21	350	10

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT									
12...	26	131	160	860	0.1	3.3	1760	2.39	242
NOV									
16...	21	129	74	710	0.1	2.3	1400	1.90	238
FEB									
22...	41	150	140	1300	0.2	4.3	2540	3.46	414
APR									
06...	5.2	114	170	110	0.1	5.8	529	0.72	636
24...	1.5	108	69	31	0.1	4.8	251	0.34	673
MAY									
23...	1.9	102	38	12	0.1	3.7	177	0.24	1370
JUN									
14...	2.1	100	43	20	0.1	4.3	195	0.26	683
27...	2.0	97	40	23	<0.1	4.8	193	0.26	661
JUL									
12...	2.8	91	34	58	<0.1	4.8	238	0.32	531
25...	24	117	110	820	0.1	5.0	1650	2.25	754
AUG									
16...	26	111	62	790	0.1	2.0	1500	2.04	438
29...	20	108	160	590	0.2	4.7	1280	1.74	414

09171100 DOLORES RIVER NEAR BEDROCK, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1920	3150	4600	6690	5140	4020	---	359	322	338	2660	2390
2	1700	3240	3900	4680	5470	3590	---	374	332	303	2690	2320
3	2070	3230	3710	5760	4840	2890	2010	370	348	282	3070	2430
4	2400	2880	3040	5750	4390	2660	1830	366	350	303	4180	2630
5	2780	2730	2840	5490	4710	2900	1790	370	344	346	3890	3150
6	3060	2620	2830	4050	4810	2220	1010	367	365	392	3840	3340
7	3160	2550	2850	4400	4840	1830	623	350	359	487	3710	3550
8	2610	2850	2900	3750	4850	1470	489	348	330	491	3640	3200
9	1110	2830	3540	4440	4210	2230	460	344	301	419	3660	3140
10	1840	3000	3460	4460	4560	2960	459	338	296	436	3530	2500
11	2920	2890	4650	4550	4700	2900	616	338	320	390	3500	2580
12	3270	3010	4790	4360	4850	2350	806	341	353	443	3440	3090
13	3280	2770	4340	4810	4840	1450	778	343	358	551	3330	3270
14	3340	2430	4330	4850	5460	1140	544	339	355	726	3080	3280
15	3270	2100	3420	5150	4590	1130	---	333	352	797	2900	3430
16	2920	2490	3990	4830	3750	1060	---	332	366	956	2940	3460
17	2680	2930	4960	4910	2840	903	---	337	373	1170	2990	3310
18	2180	3000	4850	5860	3110	783	---	335	350	1460	2970	3340
19	2310	2870	5470	6250	3920	675	---	333	340	1630	2810	3190
20	2700	2580	5400	6130	4350	630	---	329	291	1830	2620	3210
21	2860	2850	5220	5720	4640	558	---	325	278	2020	1980	3270
22	2910	3050	5460	6540	4480	481	---	325	265	2130	1430	3510
23	2730	2910	5020	6200	4230	407	---	319	262	2250	1570	3850
24	2690	3030	4440	3940	4640	492	---	303	269	2580	1990	3870
25	2800	3060	3950	4150	4130	---	418	287	291	3090	1490	3850
26	2830	3440	4010	5220	4130	---	402	287	310	3060	2010	3890
27	2870	3070	4250	4140	4020	---	370	294	341	3040	2550	3830
28	2990	3330	4600	3790	3940	---	360	310	339	2980	2630	3930
29	3010	3780	5150	4250	---	---	366	311	321	2840	2520	2510
30	3010	3820	4970	5140	---	---	366	317	347	2810	2480	887
31	2920	---	5740	4810	---	---	---	327	---	2750	2460	---
MEAN	2680	2950	4280	5000	4440	---	---	334	328	1400	2860	3140

09171100 DOLORES RIVER NEAR BEDROCK, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	17.5	13.0	10.2	2.7	.0	.0	.0	.0	7.2	.0	9.7	6.7
2	19.0	11.5	7.5	5.3	.0	.0	.0	.0	8.1	.1	10.4	6.1
3	15.2	12.1	7.3	5.6	.3	.0	.0	.0	7.7	.0	9.8	6.4
4	17.6	11.9	10.6	4.3	3.3	.0	.0	.0	7.7	.0	12.5	6.5
5	13.9	11.0	10.3	3.2	1.4	.6	.0	.0	8.0	.0	8.4	5.9
6	15.1	9.3	7.7	2.8	4.4	.7	2.7	.0	8.2	.0	10.6	5.5
7	16.0	9.7	9.2	2.0	3.4	.2	.0	.0	8.0	.0	10.2	3.1
8	17.5	8.2	9.5	5.5	2.7	.0	1.3	.0	3.8	1.2	9.0	3.5
9	16.7	8.7	9.9	3.0	.0	.0	3.7	.0	5.2	1.6	11.6	3.2
10	17.5	8.3	8.7	2.2	.0	.0	2.3	.0	7.8	1.0	11.3	4.2
11	16.8	8.2	8.2	2.7	.0	.0	5.3	.4	5.1	1.5	9.7	6.8
12	16.9	7.9	7.9	5.5	.0	.0	4.5	1.0	6.2	1.8	11.6	6.3
13	15.2	7.9	7.3	2.3	.9	.0	5.1	.0	6.0	2.5	10.6	6.4
14	13.2	10.7	6.1	.0	.5	.0	5.8	.1	7.2	3.6	11.5	6.0
15	11.5	8.8	5.0	.0	.0	.0	4.3	1.1	9.1	.9	11.2	6.8
16	9.4	6.9	3.5	.1	.0	.0	6.0	.8	8.9	.5	13.1	7.4
17	9.3	6.6	5.0	.4	.0	.0	4.1	.0	9.1	.7	13.1	9.0
18	10.9	6.2	4.3	.9	.0	.0	1.5	.0	9.5	1.1	12.1	8.5
19	14.4	6.4	3.6	.5	.0	.0	1.9	.0	9.8	1.1	11.7	8.7
20	14.1	6.0	3.7	.0	.0	.0	.9	.0	11.4	1.4	10.7	7.9
21	14.7	5.6	3.9	.0	.0	.0	2.6	.0	11.3	2.4	10.7	8.5
22	14.7	5.6	5.1	.0	.0	.0	1.9	.0	12.4	2.7	10.6	7.4
23	14.4	5.5	3.1	.0	.0	.0	.0	.0	12.7	2.8	9.6	6.6
24	10.6	6.0	2.7	.0	1.0	.0	1.3	.0	13.0	3.1	9.6	6.3
25	12.7	4.1	4.2	.0	3.1	.0	3.1	.1	12.3	4.9	7.4	5.4
26	13.7	4.9	1.6	.0	4.4	.0	4.2	.6	13.1	4.5	8.8	4.7
27	12.9	5.6	1.9	.0	4.0	.2	4.9	1.1	12.3	4.2	9.6	4.1
28	13.7	5.3	1.3	.0	2.3	.0	5.3	.0	10.3	5.6	9.7	5.4
29	13.5	5.3	.0	.0	2.1	.0	5.0	.0	---	---	8.4	5.6
30	13.4	7.0	.0	.0	3.4	.0	4.0	.0	---	---	9.9	4.0
31	11.0	3.1	---	---	3.8	.0	5.9	.0	---	---	11.7	4.6
MONTH	19.0	3.1	10.6	.0	4.4	.0	6.0	.0	13.1	.0	13.1	3.1
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	13.8	5.3	11.8	9.6	14.2	10.5	16.3	13.8	26.8	18.6	27.1	19.0
2	14.1	6.7	10.7	8.9	13.8	12.6	15.2	14.0	27.6	18.5	27.8	19.9
3	15.5	7.0	11.0	8.0	13.1	11.9	14.5	12.7	27.0	19.0	28.3	19.3
4	16.2	7.8	11.9	9.3	13.7	11.2	14.4	11.7	27.6	19.7	26.5	19.0
5	16.0	8.7	11.6	10.0	15.0	12.1	16.6	12.4	29.2	19.3	25.8	18.4
6	14.0	9.8	10.6	9.0	15.2	12.8	19.1	14.1	26.8	19.2	26.2	19.4
7	14.0	9.9	9.3	7.9	14.4	12.5	20.3	15.8	26.4	19.5	26.0	20.1
8	13.6	9.7	9.7	7.8	14.5	12.2	21.5	17.3	27.9	20.3	23.8	18.6
9	11.2	6.9	11.2	8.9	13.5	10.6	21.3	17.7	27.4	20.0	25.2	17.9
10	9.7	6.3	10.9	9.6	14.2	10.7	21.1	17.5	27.3	19.7	22.9	17.5
11	11.7	5.6	10.4	9.7	16.3	12.5	21.2	17.9	29.3	21.4	24.3	15.8
12	13.5	7.0	10.5	9.8	17.6	13.4	21.3	17.6	27.5	21.5	24.3	14.6
13	13.1	9.0	10.3	8.2	17.8	14.4	21.0	18.1	28.1	20.6	24.5	14.5
14	11.3	8.9	11.7	9.3	18.2	14.6	21.9	17.8	26.2	20.9	23.8	15.3
15	10.1	8.7	12.9	10.2	18.0	15.1	23.1	17.4	28.8	19.2	24.7	14.6
16	10.6	7.0	12.0	10.8	16.0	13.8	23.4	18.4	25.3	19.7	25.2	14.7
17	9.9	7.7	10.9	9.5	13.8	10.9	22.0	19.2	27.9	19.4	21.7	15.4
18	9.2	6.9	10.8	8.2	12.8	9.9	22.0	19.2	28.6	19.1	22.4	16.6
19	9.1	6.7	12.6	9.2	14.0	11.0	24.3	18.7	23.4	19.2	23.6	14.0
20	8.5	6.6	12.6	10.3	14.4	11.3	25.0	18.8	26.1	19.0	21.4	13.9
21	8.7	5.9	12.4	10.1	14.3	11.4	23.9	19.4	27.7	20.0	20.2	12.5
22	9.2	5.7	12.1	10.1	14.1	11.2	23.8	17.7	28.7	21.3	20.0	10.1
23	9.6	7.6	11.5	9.9	14.2	11.1	25.0	17.8	27.3	22.4	18.7	9.4
24	10.3	6.2	11.2	9.0	15.0	11.4	26.3	18.3	25.2	21.3	15.9	12.3
25	11.2	7.6	10.6	9.0	15.8	12.8	27.1	18.6	26.2	20.8	17.4	8.9
26	12.4	8.5	10.4	9.0	17.0	14.2	26.4	18.6	28.5	19.7	17.9	11.3
27	12.0	9.3	11.3	8.6	17.7	14.8	28.0	18.2	26.8	20.7	19.1	11.0
28	11.9	9.4	11.0	9.6	18.0	14.9	28.9	19.3	27.9	20.1	17.3	13.5
29	11.9	9.2	10.3	8.4	17.6	15.5	27.8	20.1	27.4	19.9	16.5	13.0
30	12.7	10.0	10.9	8.7	16.3	14.6	26.0	20.9	26.8	19.3	18.2	11.7
31	---	---	12.5	9.9	---	---	27.8	20.2	28.2	18.8	---	---
MONTH	16.2	5.3	12.9	7.8	18.2	9.9	28.9	11.7	29.3	18.5	28.3	8.9

09172500 SAN MIGUEL RIVER NEAR PLACERVILLE, CO

LOCATION.--Lat 38°02'33", long 108°07'54", in NW¹/4NE¹/4 sec.25, T.44 N., R.12 W., San Miguel County, Hydrologic Unit 14030003, on right bank 1.5 mi downstream from Specie Creek in vicinity of mile marker 88.68 on State Highway 145 and 4.5 mi northwest of Placerville, CO.

DRAINAGE AREA.--310 mi².

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.--Estimated daily discharges: Nov. 24 to Jan. 12 and Jan. 17 to Feb. 21. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184	106	88	76	78	89	110	450	505	1620	615	276
2	145	96	90	74	82	85	111	534	614	1390	576	264
3	127	82	88	80	82	85	109	528	736	1350	530	263
4	124	79	88	75	80	84	118	526	833	1120	507	248
5	124	95	84	75	82	82	146	581	935	939	517	234
6	131	86	90	76	84	90	176	496	1070	1050	491	234
7	123	83	88	75	86	63	215	435	1070	1190	452	241
8	120	87	86	75	86	70	261	421	985	1230	442	273
9	149	98	77	78	84	80	296	474	930	1370	447	287
10	151	120	68	80	82	85	219	495	948	1490	411	270
11	148	108	62	80	80	96	195	562	1070	1440	436	245
12	139	121	68	78	78	109	188	663	1280	1480	435	219
13	124	102	74	71	80	98	226	569	1460	1340	444	201
14	124	95	76	76	84	95	276	617	1530	1480	403	194
15	131	82	72	78	78	101	258	801	1630	1250	362	187
16	126	82	76	80	75	111	226	779	1730	1350	342	179
17	127	102	74	80	75	124	236	765	1740	1250	326	179
18	126	98	74	78	76	123	208	745	1650	1170	332	187
19	127	100	76	88	78	136	206	687	1380	1100	314	174
20	123	100	78	86	80	139	194	692	1460	1120	442	162
21	104	100	76	78	85	152	183	751	1560	1030	425	156
22	100	101	76	78	88	173	174	851	1560	978	421	149
23	99	88	76	82	86	155	173	845	1680	932	417	132
24	114	88	78	82	90	151	178	739	1640	816	382	132
25	115	90	78	78	92	137	181	682	1660	830	365	129
26	116	90	78	80	92	129	226	597	1650	783	376	128
27	111	88	76	80	90	115	282	580	1560	775	398	127
28	110	86	76	80	92	122	345	543	1310	756	357	131
29	109	88	76	80	---	116	404	551	1420	733	351	183
30	109	86	78	78	---	109	510	539	1440	693	321	186
31	101	---	78	76	---	109	---	494	---	647	294	---
TOTAL	3861	2827	2423	2431	2325	3413	6630	18992	39036	34702	12931	5970
MEAN	125	94.2	78.2	78.4	83.0	110	221	613	1301	1119	417	199
MAX	184	121	90	88	92	173	510	851	1740	1620	615	287
MIN	99	79	62	71	75	63	109	421	505	647	294	127
AC-FT	7660	5610	4810	4820	4610	6770	13150	37670	77430	68830	25650	11840

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1995, BY WATER YEAR (WY)

	MEAN	110	82.8	67.9	62.2	62.2	74.8	230	564	800	451	214	139
MAX	399	138	104	92.1	94.2	129	593	1515	1528	1197	484	342	
(WY)	1912	1985	1987	1943	1987	1971	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 1994 CALENDAR YEAR			FOR 1995 WATER YEAR			WATER YEARS 1911 - 1995		
ANNUAL TOTAL	74329			135541					
ANNUAL MEAN	204			371					
HIGHEST ANNUAL MEAN							237		
LOWEST ANNUAL MEAN							414		
HIGHEST DAILY MEAN	1160			1740			88.8		
LOWEST DAILY MEAN	a58			62			2740		
ANNUAL SEVEN-DAY MINIMUM	59			71			26		
INSTANTANEOUS PEAK FLOW				2110			31		
INSTANTANEOUS PEAK STAGE				5.28			b3830		
ANNUAL RUNOFF (AC-FT)	147400			268800			c6.20		
10 PERCENT EXCEEDS	573			1110			171500		
50 PERCENT EXCEEDS	103			139			648		
90 PERCENT EXCEEDS	62			78			104		
							55		

a-Also occurred Feb 14, 23-27.

b-Maximum discharge for period of record, 10000 ft³/s, Sep 5, 1909, gage height not determined; result of failure of Trout and Middle Reservoir Dams.

c-Maximum gage height for statistical period, and period of record, 8.06 ft, Jun 6, 1985.

09174600 SAN MIGUEL RIVER AT BROOKS BRIDGE, NEAR NUCLA, CO

LOCATION.--Lat 38°14'39", long 108°30'05", in NE¹/4NE¹/4 sec.15, T.46 N., R.15 W., Montrose County, Hydrologic Unit 14030003, on right bank at downstream side of Brooks Bridge, 0.5 mi upstream from Tri-State Power Plant, 3 mi upstream from Naturita Creek and 4.4 mi northeast of Naturita.

DRAINAGE AREA.--736 mi².

PERIOD OF RECORD.--March 30, 1995 to September 30, 1995.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,570 ft above sea level, from topographic map.

REMARKS.--Records good. 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 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	240	1410	805	1580	481	191
2	---	---	---	---	---	---	284	1650	958	1510	449	196
3	---	---	---	---	---	---	308	1670	1140	1430	409	179
4	---	---	---	---	---	---	407	1350	1330	1290	378	164
5	---	---	---	---	---	---	591	1450	1520	1010	386	149
6	---	---	---	---	---	---	759	1310	1740	1040	375	140
7	---	---	---	---	---	---	930	1010	1760	1220	343	155
8	---	---	---	---	---	---	1100	1080	1500	1220	326	171
9	---	---	---	---	---	---	1220	1270	1310	1430	348	210
10	---	---	---	---	---	---	717	1190	1280	1570	306	193
11	---	---	---	---	---	---	584	1220	1330	1500	341	177
12	---	---	---	---	---	---	561	1560	1520	1460	327	145
13	---	---	---	---	---	---	772	1320	1750	1380	351	126
14	---	---	---	---	---	---	968	1070	1910	1480	319	115
15	---	---	---	---	---	---	792	1540	2010	1270	289	104
16	---	---	---	---	---	---	602	1730	2310	1180	256	87
17	---	---	---	---	---	---	703	1600	2370	1050	230	81
18	---	---	---	---	---	---	561	1610	2370	995	234	86
19	---	---	---	---	---	---	584	1450	1680	972	204	93
20	---	---	---	---	---	---	528	1420	1690	972	324	76
21	---	---	---	---	---	---	502	1450	1880	864	355	68
22	---	---	---	---	---	---	479	1570	1800	812	346	63
23	---	---	---	---	---	---	465	1540	1800	782	354	51
24	---	---	---	---	---	---	498	1300	1750	646	327	44
25	---	---	---	---	---	---	514	1190	1730	654	300	48
26	---	---	---	---	---	---	651	1030	1730	642	310	43
27	---	---	---	---	---	---	855	985	1650	618	315	47
28	---	---	---	---	---	---	1050	895	1390	601	286	39
29	---	---	---	---	---	---	1190	991	1400	578	283	122
30	---	---	---	---	---	---	1570	1110	1520	558	246	154
31	---	---	---	---	---	216	---	861	---	519	216	---
TOTAL	---	---	---	---	---	---	20985	40832	48933	32833	10014	3517
MEAN	---	---	---	---	---	---	699	1317	1631	1059	323	117
MAX	---	---	---	---	---	---	1570	1730	2370	1580	481	210
MIN	---	---	---	---	---	---	240	861	805	519	204	39
AC-FT	---	---	---	---	---	---	41620	80990	97060	65120	19860	6980

09235490 VERMILLION CREEK BELOW DOUGLAS DRAW, NEAR LODORE, CO

LOCATION.--Lat 40°43'20", long 108°45'26", in NW¹/4SW¹/4 sec.21, T.9 N., R.101 W., Moffat County, Hydrologic Unit 14040109, on right bank 0.5 mi downstream from Douglas Draw and 7.0 mi east of Lodore Ranger Station.

DRAINAGE AREA.--918 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1994 to September 1995.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,610 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1-14, Nov. 2 to Dec. 9, Dec. 11, Dec. 13-14, Jan. 1-28, Feb. 1-17, 20-22, 24-28, and May 30 to June 8. Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	2.4	2.4	2.5	3.0	18	2.1	3.8	50	8.3	2.2	.96
2	1.6	2.3	2.4	2.3	2.8	6.7	2.1	6.6	45	8.8	1.2	1.2
3	1.5	2.3	2.4	2.2	2.9	5.2	2.2	13	45	10	1.1	1.2
4	1.5	2.4	2.4	2.3	3.0	26	2.1	5.5	43	9.3	1.4	1.1
5	10	2.3	2.4	2.4	3.1	13	2.1	3.6	40	8.3	1.4	1.1
6	63	2.2	2.3	2.3	3.5	6.9	2.3	2.3	40	6.7	1.2	1.2
7	44	2.4	2.4	2.3	4.0	6.9	1.8	2.2	40	5.8	.82	1.4
8	20	2.5	2.3	2.3	4.8	3.6	2.1	4.4	50	5.0	.67	13
9	3.0	2.4	2.3	2.2	4.8	4.3	2.4	6.0	63	4.3	.73	8.3
10	2.9	2.2	2.2	2.3	6.0	5.1	1.9	8.0	64	5.0	.84	3.2
11	2.8	2.0	2.2	2.4	8.0	21	1.7	8.6	52	4.3	1.1	2.1
12	2.7	2.2	2.1	2.5	8.0	29	1.6	8.3	59	3.6	1.4	1.8
13	2.5	2.4	2.3	2.3	8.0	8.4	1.3	11	53	3.8	1.1	1.6
14	2.4	2.4	2.4	2.3	8.0	5.4	1.4	7.3	52	4.4	.84	1.6
15	2.7	2.4	2.5	2.4	8.0	3.9	1.5	3.8	55	4.3	.78	1.6
16	3.9	2.4	2.5	2.3	10	4.1	1.5	2.6	48	4.1	.77	1.6
17	3.4	2.3	2.6	2.2	10	3.8	1.8	2.4	56	3.9	.83	1.6
18	3.1	2.2	2.8	2.4	8.2	3.1	2.1	3.1	26	15	.78	2.9
19	3.4	2.3	2.9	2.5	13	9.4	2.8	3.3	61	12	.88	6.4
20	3.1	2.4	2.2	2.5	15	3.2	3.3	3.3	39	16	.98	1.6
21	2.8	2.3	1.9	2.6	10	2.0	3.2	3.2	27	19	.81	1.7
22	2.6	2.5	2.2	2.6	8.0	2.3	2.8	3.3	19	14	.75	1.7
23	2.5	2.3	2.9	2.6	3.4	2.4	2.4	4.8	15	14	.71	1.7
24	2.3	2.2	2.9	2.6	5.0	2.1	2.1	6.3	14	15	1.0	1.7
25	2.3	2.2	3.0	2.5	10	2.1	2.2	10	13	12	19	1.7
26	2.2	2.3	3.0	2.4	15	2.0	3.7	13	12	9.6	4.0	1.7
27	2.2	2.4	3.0	2.3	16	1.6	2.7	10	10	7.8	1.6	1.7
28	2.3	2.5	3.0	2.4	17	3.0	2.8	10	9.4	5.5	1.2	1.8
29	2.2	2.4	3.3	2.5	---	2.0	3.0	11	8.9	4.1	1.0	2.4
30	2.0	2.5	3.3	2.9	---	4.7	3.3	25	8.4	3.1	.88	2.4
31	2.0	---	2.5	2.9	---	1.8	---	55	---	2.4	.88	---
TOTAL	204.4	70.0	79.0	75.2	218.5	213.0	68.3	260.7	1117.7	249.4	52.85	73.96
MEAN	6.59	2.33	2.55	2.43	7.80	6.87	2.28	8.41	37.3	8.05	1.70	2.47
MAX	63	2.5	3.3	2.9	17	29	3.7	55	64	19	19	13
MIN	1.5	2.0	1.9	2.2	2.8	1.6	1.3	2.2	8.4	2.4	.67	.96
AC-FT	405	139	157	149	433	422	135	517	2220	495	105	147

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

	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MEAN	6.59	2.33	2.55	2.43	7.80	6.87	2.28	8.41	37.3	8.05	1.70	2.47
MAX	6.59	2.33	2.55	2.43	7.80	6.87	2.28	8.41	37.3	8.05	1.70	2.47
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MIN	6.59	2.33	2.55	2.43	7.80	6.87	2.28	8.41	37.3	8.05	1.70	2.47
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995

SUMMARY STATISTICS

FOR 1995 WATER YEAR

ANNUAL TOTAL	2683.01
ANNUAL MEAN	7.35
HIGHEST DAILY MEAN	64 Jun 10
LOWEST DAILY MEAN	.67 Aug 8
ANNUAL SEVEN-DAY MINIMUM	.82 Aug 17
INSTANTANEOUS PEAK FLOW	a,b 87 Jun 10
INSTANTANEOUS PEAK STAGE	c,d 1.72 Jun 10
INSTANTANEOUS LOW FLOW	.67 Aug 8
ANNUAL RUNOFF (AC-FT)	5320
10 PERCENT EXCEEDS	15
50 PERCENT EXCEEDS	2.6
90 PERCENT EXCEEDS	1.5

a-May have been higher during estimated period.

b-From rating extended above 64 ft³/s.

c-Maximum gage height, 5.04 ft, Dec 8, 1994, backwater from ice.

d-May have been higher during estimated period.

09235490 VERMILLION CREEK BELOW DOUGLAS DRAW, NEAR LODORE, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1994 to September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

		DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	
OCT 06...	1430	64	881	7.6	8.0	11.2	280	89	14	78	2	
JAN 30...	1245	3.7	1320	--	0.0	11.9	380	92	36	110	2	
FEB 28...	1530	18	1170	8.2	6.0	10.1	350	100	24	110	3	
SEP 29...	1000	2.3	1030	8.0	10.5	9.2	290	69	28	96	2	
DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)	
OCT 06...	3.8	147	300	13	0.4	9.0	--	598	0.81	103	--	
JAN 30...	6.8	218	270	130	0.4	12	846	789	1.15	8.36	<1	
FEB 28...	5.0	187	360	28	0.4	8.8	822	748	1.12	39.9	1	
SEP 29...	7.7	192	120	130	0.2	10	601	577	0.82	3.68	<1	
DATE				NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)			
OCT 06...				<0.01	0.6	<0.02	0.4	0.03	0.02			
DATE				BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)
JAN 30...	50			<0.5	<1	<5	<3	<10	<3	10	100	
FEB 28...	--			--	--	--	--	--	<3	--	--	
SEP 29...	53			<0.5	<1	<5	<3	<10	7	<10	120	
DATE				MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)	
JAN 30...	110			10	<10	--	<1	870	<6	<3		
FEB 28...	30			--	--	--	--	--	--	--		
SEP 29...	20			<10	<10	1	<1	600	<6	<3		

09235490 VERMILLION CREEK BELOW DOUGLAS DRAW, NEAR LODORE, CO--Continued
 MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT					MAY				
07...	1246	44	1020	8.0	31...	1325	57	1070	18.0
NOV					JUN				
08...	1200	--	973	--	08...	0941	45	1520	13.5
DEC					AUG				
20...	1355	2.6	1370	0.0	31...	1046	1.3	1090	17.0
APR					SEP				
13...	0846	4.9	2020	--	29...	0905	2.3	1030	10.5

09237450 YAMPA RIVER ABOVE STAGECOACH RESERVOIR, CO

LOCATION.--Lat 40°16'09", long 106°52'49", in SW¹/4SW¹/4 sec.36, T.4 N., R.85 W., Routt County, Hydrologic Unit 14050001, on left bank 1.4 mi downstream from Jack Creek and 4.0 mi east of Oak Creek, CO.

DRAINAGE AREA.--257 mi².

PERIOD OF RECORD.--October 1988 to current year. Water-quality data available, July 1984 to September 1992.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,240 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 15 to Feb. 27 and Mar. 4-12. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	33	32	31	29	37	24	109	130	162	123	63
2	33	32	31	30	28	38	25	96	122	142	120	79
3	34	33	32	30	28	41	31	101	122	165	112	76
4	32	32	30	30	29	46	44	75	131	206	113	74
5	33	33	28	31	28	46	51	67	150	181	117	73
6	37	36	27	32	28	40	53	69	143	152	114	79
7	36	35	28	31	28	40	57	63	133	151	110	84
8	35	34	30	31	29	42	55	76	130	146	101	105
9	32	35	32	30	28	46	52	101	135	138	98	101
10	32	34	32	30	27	54	41	84	136	146	96	94
11	32	33	32	30	30	54	36	79	125	130	96	98
12	32	33	32	30	30	52	39	87	121	116	96	95
13	32	33	31	30	29	52	36	90	132	142	86	89
14	33	30	31	30	28	42	38	85	125	244	84	74
15	33	30	30	30	29	56	37	89	127	250	82	73
16	35	31	31	31	30	86	36	95	138	212	78	68
17	35	30	31	31	31	104	43	102	175	205	75	63
18	35	31	32	30	32	111	48	98	255	203	72	65
19	33	30	32	30	31	102	56	91	151	208	68	71
20	33	30	32	30	30	64	52	99	134	204	73	65
21	30	30	32	30	30	81	48	104	111	195	76	66
22	29	30	32	31	30	81	43	103	106	175	98	65
23	29	31	32	31	32	54	39	104	96	172	81	65
24	29	31	32	30	34	24	38	105	90	164	92	68
25	28	31	31	29	36	24	43	112	93	172	92	65
26	28	31	31	29	38	25	56	100	91	145	99	64
27	30	31	31	29	40	26	66	95	96	139	84	65
28	30	32	32	29	44	26	73	85	114	133	77	66
29	30	32	32	29	---	25	69	89	142	133	69	85
30	30	32	32	30	---	26	131	135	141	132	66	100
31	32	---	31	29	---	26	---	121	---	129	63	---
TOTAL	991	959	964	934	866	1571	1460	2909	3895	5192	2811	2298
MEAN	32.0	32.0	31.1	30.1	30.9	50.7	48.7	93.8	130	167	90.7	76.6
MAX	37	36	32	32	44	111	131	135	255	250	123	105
MIN	28	30	27	29	27	24	24	63	90	116	63	63
AC-FT	1970	1900	1910	1850	1720	3120	2900	5770	7730	10300	5580	4560

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1995, BY WATER YEAR (WY)

	MEAN	39.0	42.5	35.8	32.0	34.2	53.3	85.8	78.4	85.3	96.8	66.4	43.8
MAX	48.0	48.1	44.7	38.0	38.0	79.7	136	148	130	167	90.7	76.6	
(WY)	1989	1989	1989	1992	1989	1989	1989	1993	1995	1995	1995	1995	
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1989 - 1995

ANNUAL TOTAL	15333	24850	
ANNUAL MEAN	42.0	68.1	57.9
HIGHEST ANNUAL MEAN			68.1
LOWEST ANNUAL MEAN			44.6
HIGHEST DAILY MEAN	a 158	Apr 24	255 Jun 18 1995
LOWEST DAILY MEAN	16	Sep 11	c 14 Jan 24 1990
ANNUAL SEVEN-DAY MINIMUM	23	Sep 10	25 Mar 24 1990
INSTANTANEOUS PEAK FLOW			377 Jun 18 1995
INSTANTANEOUS PEAK STAGE		d, e 4.85	f 4.85 Jun 18 1995
ANNUAL RUNOFF (AC-FT)	30410	49290	41930
10 PERCENT EXCEEDS	59	134	104
50 PERCENT EXCEEDS	37	46	44
90 PERCENT EXCEEDS	28	29	30

a-Also occurred Apr 25.

b-Also occurred Mar 25 and Apr 1.

c-Also occurred Jan 25, 26, 1990.

d-May have been higher during period of no gage height, backwater from ice.

e-At site and datum now in use.

f-Maximum gage height 6.61 ft, Nov 20, 1993, backwater from ice.

GREEN RIVER BASIN

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09237500 YAMPA RIVER BELOW STAGECOACH RESERVOIR, CO

LOCATION.--Lat 40°17'15", long 106°49'33", in SE¹/4NE¹/4 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 mi².

PERIOD OF RECORD.--September 1939 to September 1944, monthly discharge only for some periods, published in WSP 1313; October 1956 to September 1972; October 1984 to current year. Water-quality data available, July 1984 to September 1992. Prior to October 1990, published as Yampa River near Oak Creek. Statistical summary computed for 1989 to current year.

REVISED RECORDS.--WDR CO-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 Nov. 15, 1939, nonrecording gage, Nov. 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 except those for periods of moss growth, which are fair. Flow regulated since Dec. 20 1988, by Stagecoach Reservoir (capacity 33,275 acre-ft), 0.3 mi upstream. Diversions for irrigation of about 12,000 acres upstream from station. Natural flow of stream affected by 2 diversions for irrigation to Egeria Creek into Colorado River basin and by storage in Stillwater, Yampa and YamColo Reservoirs (total capacity, 15,820 acre-ft). Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	69	54	46	53	48	40	42	92	142	120	88
2	53	66	54	46	52	48	40	42	79	149	130	88
3	58	67	53	46	53	48	40	42	91	155	125	90
4	58	69	57	46	54	48	40	42	89	177	120	90
5	58	61	54	50	49	48	42	42	88	190	118	89
6	51	59	48	49	50	48	42	42	88	183	116	88
7	50	63	48	52	49	48	43	42	88	173	116	88
8	54	66	48	50	50	47	43	42	91	166	113	92
9	72	66	48	49	50	47	43	42	94	157	107	99
10	65	70	48	48	50	49	42	42	100	145	104	98
11	33	69	48	48	48	49	47	41	104	140	80	112
12	31	67	48	47	48	49	42	50	113	140	65	116
13	49	59	48	47	46	49	42	46	121	132	95	80
14	68	60	48	47	47	49	42	45	129	161	106	106
15	62	59	48	47	46	48	41	54	128	270	100	117
16	61	55	50	47	47	47	40	54	133	211	96	106
17	70	55	49	47	47	48	40	57	144	206	91	108
18	65	55	49	45	49	48	40	56	200	205	90	102
19	70	55	49	46	47	47	40	57	205	196	90	87
20	68	55	48	46	47	44	40	47	182	211	89	93
21	68	54	47	46	48	41	41	48	164	215	88	99
22	65	54	47	46	49	41	41	63	148	201	83	98
23	48	54	47	48	48	40	40	66	138	190	59	87
24	57	54	47	48	48	43	40	66	126	178	79	81
25	71	54	47	48	48	40	40	67	121	175	87	88
26	71	54	47	49	48	37	39	69	117	166	87	89
27	70	54	47	49	48	39	40	62	109	153	87	84
28	67	54	47	49	48	40	43	58	107	144	87	88
29	61	54	47	50	---	40	45	55	125	141	88	85
30	61	54	47	48	---	40	42	74	131	136	88	81
31	63	---	47	51	---	40	---	84	---	133	87	---
TOTAL	1851	1785	1514	1481	1367	1398	1240	1639	3645	5341	2991	2817
MEAN	59.7	59.5	48.8	47.8	48.8	45.1	41.3	52.9	121	172	96.5	93.9
MAX	72	70	57	52	54	49	47	84	205	270	130	117
MIN	31	54	47	45	46	37	39	41	79	132	59	80
AC-FT	3670	3540	3000	2940	2710	2770	2460	3250	7230	10590	5930	5590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1995, BY WATER YEAR (WY)

	MEAN	51.6	53.7	53.9	53.8	51.9	46.9	49.0	62.1	74.4	80.4	66.6	62.3
MAX	69.8	66.9	69.7	69.2	70.9	64.6	70.9	122	122	172	97.1	93.9	
(WY)	1994	1992	1994	1993	1994	1994	1993	1993	1993	1995	1993	1995	
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1989 - 1995

ANNUAL TOTAL	20204	27069	
ANNUAL MEAN	55.4	74.2	a 58.9
HIGHEST ANNUAL MEAN			79.1
LOWEST ANNUAL MEAN			32.1
HIGHEST DAILY MEAN	85	Feb 22	b 270
LOWEST DAILY MEAN	31	Oct 12	c, d 9.4
ANNUAL SEVEN-DAY MINIMUM	43	May 28	e 10
INSTANTANEOUS PEAK FLOW			f 416
INSTANTANEOUS PEAK STAGE		3.48	Jul 15
ANNUAL RUNOFF (AC-FT)	40070	53690	42690
10 PERCENT EXCEEDS	70	134	91
50 PERCENT EXCEEDS	53	54	52
90 PERCENT EXCEEDS	45	42	32

a-Average discharge for 25 years (water years 1940-44, 1957-72, 1985-88), 89.4 ft³/s; 64770 acre-ft/yr, prior to completion of Stagecoach Reservoir.

b-Maximum daily discharge for period of record, 1020 ft³/s, Apr 16, 1962.

c-Also occurred Jun 2 and Jun 3, 1989

d-Minimum daily discharge for period of record, 8.9 ft³/s, May 22, 1963.

e-Maximum discharge and stage for period of record, 1400 ft³/s, Apr 16, 1962, gage height, 7.56 ft, from rating curve extended above 570 ft³/s, site and datum then in use

f-Maximum gage height, 8.08 ft, Mar 8, 1987, backwater from ice.

09238705 LONG LAKE INLET NEAR BUFFALO PASS, CO

LOCATION.--Lat 40°28'25", Long 106°40'46", in SE¹/4NW¹/4 sec.23, T.6 N., R.83 W., Routt County, Hydrologic Unit 14050001, on right bank 0.1 mi above Long Lake and 7.5 mi east of Steamboat Springs.

DRAINAGE AREA.--0.71 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 9,875 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharge: Dec. 24-26, Jan. 10, Feb. 8 to Apr. 6, June 5-8 and June 11-16. Records good except for estimated daily discharges, which are fair. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.06	.05	.06	.08	.07	.05	.05	.97	15	1.9	.13
2	.08	.05	.05	.05	.10	.07	.06	.06	1.3	15	1.7	.13
3	.10	.07	.05	.07	.09	.08	.06	.05	1.6	16	1.6	.13
4	.06	.07	.05	.09	.08	.08	.06	.06	2.7	14	1.5	.13
5	.06	.05	.06	.08	.06	.08	.07	.08	3.0	21	1.6	.11
6	.06	.05	.06	.10	.08	.09	.07	.10	4.0	27	1.1	.13
7	.08	.05	.05	.10	.08	.09	.07	.09	5.0	39	1.1	.07
8	.06	.06	.06	.10	.06	.09	.09	.08	6.0	46	1.0	.10
9	.06	.06	.05	.08	.06	.08	.09	.08	7.7	51	.97	.09
10	.07	.08	.05	.07	.06	.08	.07	.07	5.5	47	1.1	.08
11	.07	.07	.06	.07	.06	.08	.06	.13	7.0	46	.89	.13
12	.09	.10	.07	.11	.06	.07	.05	.13	10	34	.89	.08
13	.09	.09	.07	.10	.07	.07	.06	.11	12	31	.90	.07
14	.11	.06	.06	.09	.06	.07	.09	.13	14	20	.87	.06
15	.10	.05	.06	.09	.06	.07	.08	.32	16	13	.44	.08
16	.06	.05	.06	.09	.06	.06	.07	.57	16	15	.37	.07
17	.07	.05	.07	.09	.06	.06	.06	.41	15	13	.32	.06
18	.06	.05	.07	.07	.06	.06	.06	.31	11	11	.80	.09
19	.06	.05	.05	.07	.06	.06	.06	.49	13	11	.27	.15
20	.07	.04	.06	.07	.06	.06	.05	.68	17	8.8	.26	.34
21	.08	.05	.08	.09	.06	.06	.05	.71	21	7.8	.22	.36
22	.10	.05	.06	.08	.06	.06	.05	1.0	23	5.9	.20	.27
23	.10	.05	.07	.08	.06	.05	.05	1.2	20	5.4	.18	.17
24	.08	.05	.07	.08	.06	.05	.05	.84	17	8.8	.18	.14
25	.06	.06	.07	.08	.06	.05	.05	.61	15	4.1	.17	.12
26	.08	.05	.08	.08	.06	.05	.05	.55	18	3.9	.17	.10
27	.09	.04	.08	.09	.06	.05	.05	.49	21	3.4	.15	.09
28	.11	.04	.06	.10	.07	.05	.06	.40	23	2.8	.14	.24
29	.10	.04	.07	.09	---	.05	.05	.40	22	2.9	.13	1.6
30	.07	.03	.08	.09	---	.05	.05	.51	17	3.2	.13	.59
31	.05	---	.07	.09	---	.05	---	.56	---	2.5	.12	---
TOTAL	2.39	1.67	1.95	2.60	1.85	2.04	1.84	11.27	365.77	544.5	21.37	5.91
MEAN	.077	.056	.063	.084	.066	.066	.061	.36	12.2	17.6	.69	.20
MAX	.11	.10	.08	.11	.10	.09	.09	1.2	23	51	1.9	1.6
MIN	.05	.03	.05	.05	.06	.05	.05	.05	.97	2.5	.12	.06
AC-FT	4.7	3.3	3.9	5.2	3.7	4.0	3.6	22	726	1080	42	12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1995, BY WATER YEAR (WY)

	MEAN	.13	.089	.082	.067	.063	.057	.39	3.89	10.7	3.07	.19	.11
MAX	.36	.15	.21	.13	.10	.11	1.37	8.67	19.3	17.6	.69	.20	
(WY)	1987	1987	1987	1987	1993	1989	1987	1992	1988	1995	1995	1995	
MIN	.060	.044	.026	.016	.010	.014	.048	.36	3.13	.28	.046	.044	
(WY)	1992	1990	1990	1990	1990	1990	1988	1995	1987	1994	1994	1994	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1987 - 1995

ANNUAL TOTAL	379.93	963.16	
ANNUAL MEAN	1.04	2.64	1.56
HIGHEST ANNUAL MEAN			2.64
LOWEST ANNUAL MEAN			1.05
HIGHEST DAILY MEAN	a ₂₁	51	58
LOWEST DAILY MEAN	b ₀₀	.03	c ₀₀
ANNUAL SEVEN-DAY MINIMUM	.03	.04	.00
INSTANTANEOUS PEAK FLOW		d ₉₅	156
INSTANTANEOUS PEAK STAGE		d _{2.96}	3.57
ANNUAL RUNOFF (AC-FT)	754	1910	1130
10 PERCENT EXCEEDS	3.1	11	4.5
50 PERCENT EXCEEDS	.06	.08	.09
90 PERCENT EXCEEDS	.03	.05	.04

a-Also occurred Jun 4.

b-Also occurred Jul 31.

c-Also occurred Jan 25-29, Mar 14-19, 26-30, 1988.

d-Maximum gage height 8.20 ft, Jun 11, backwater from ice.

09238710 FISH CREEK TRIBUTARY BELOW LONG LAKE, NEAR BUFFALO PASS, CO.

LOCATION.--Lat 40°28'36", Long 106°41'13", in NE¹/4SE¹/4 Sec.22, T.6 N., R.83 W., Routt county, Hydrologic Unit 14050001, on right bank 0.1 mi below Long Lake Spillway and 7.5 mi east of Steamboat Springs.

DRAINAGE AREA.--1.03 mi².

PERIOD OF RECORD.--August 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 9,860 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 21-27, Dec. 30, Jan. 4-6, 15-20, Jan. 30 to Feb. 3 and June 19-23. Records good except for estimated daily discharges, which are poor. Flow regulated by Long Lake Reservoir, capacity 397 acre-ft, 0.1 mi upstream. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.02	.05	.01	.04	.02	.04	.02	.05	19	1.3	.01
2	.00	.02	.04	.00	.04	.02	.04	.02	.06	18	1.1	.01
3	.00	.02	.04	.02	.04	.02	.04	.02	.06	22	.97	.01
4	.00	.02	.03	.02	.05	.02	.04	.02	.07	20	.91	.00
5	.00	.02	.04	.02	.04	.02	.04	.02	.12	20	.84	.00
6	.00	.02	.05	.02	.06	.03	.03	.02	.13	28	.72	.00
7	.02	.02	.05	.02	.05	.02	.02	.02	.13	35	.66	.01
8	.03	.02	.06	.03	.04	.02	.02	.02	.13	34	.56	.01
9	.03	.03	.03	.02	.08	.02	.02	.02	.12	38	.45	.01
10	.03	.03	.04	.00	.08	.02	.02	.02	.13	43	.42	.01
11	.02	.02	.05	.00	.07	.02	.02	.02	.18	39	.41	.01
12	.02	.02	.04	.00	.06	.02	.02	.02	.25	29	.42	.01
13	.03	.03	.05	.00	.05	.02	.02	.02	.35	30	.38	.01
14	.02	.04	.06	.03	.05	.02	.02	.02	.44	30	.35	.01
15	.03	.03	.04	.03	.05	.02	.02	.02	.53	13	.32	.01
16	.04	.03	.06	.04	.04	.02	.02	.02	.87	10	.26	.01
17	.05	.04	.05	.03	.04	.02	.02	.02	1.6	8.9	.24	.00
18	.12	.05	.03	.03	.04	.03	.02	.02	4.3	8.4	.19	.00
19	.08	.04	.03	.02	.04	.06	.02	.02	5.0	7.6	.16	.00
20	.06	.02	.02	.03	.04	.06	.02	.02	10	7.2	.15	.01
21	.05	.02	.05	.04	.04	.05	.02	.03	14	6.6	.13	.01
22	.04	.04	.05	.03	.03	.05	.02	.03	16	5.0	.14	.00
23	.03	.03	.03	.02	.03	.04	.02	.04	18	4.0	.12	.00
24	.03	.03	.06	.02	.03	.04	.02	.04	19	3.4	.11	.00
25	.02	.03	.06	.03	.02	.04	.02	.04	13	3.1	.12	.00
26	.02	.02	.04	.04	.02	.04	.02	.04	12	2.6	.08	.00
27	.02	.02	.03	.05	.02	.04	.02	.04	18	2.1	.07	.00
28	.02	.04	.00	.06	.02	.04	.02	.03	31	1.8	.05	.00
29	.02	.05	.03	.05	---	.04	.02	.03	27	1.7	.04	.03
30	.02	.08	.03	.04	---	.04	.02	.04	21	1.6	.02	.02
31	.02	---	.03	.04	---	.04	---	.04	---	1.4	.02	---
TOTAL	0.87	0.90	1.27	0.79	1.21	0.96	0.71	0.80	213.52	493.4	11.71	0.20
MEAN	.028	.030	.041	.025	.043	.031	.024	.026	7.12	15.9	.38	.007
MAX	.12	.08	.06	.06	.08	.06	.04	.04	31	43	1.3	.03
MIN	.00	.02	.00	.00	.02	.02	.02	.02	.05	1.4	.02	.00
AC-FT	1.7	1.8	2.5	1.6	2.4	1.9	1.4	1.6	424	979	23	.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1995, BY WATER YEAR (WY)

	MEAN	.024	.031	.045	.030	.033	.023	.074	2.91	13.8	3.06	.13	.039
MAX	.061	.14	.34	.26	.29	.18	.68	9.23	31.2	15.9	.48	.20	
(WY)	1985	1986	1986	1986	1986	1986	1986	1992	1986	1995	1993	1993	
MIN	.000	.000	.000	.000	.000	.000	.000	.000	4.30	.038	.000	.000	
(WY)	1988	1988	1988	1985	1985	1985	1988	1988	1987	1994	1987	1987	

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1984 - 1995
ANNUAL TOTAL	410.75	726.34	
ANNUAL MEAN	1.13	1.99	1.67
HIGHEST ANNUAL MEAN			3.69
LOWEST ANNUAL MEAN			.85
HIGHEST DAILY MEAN	36 Jun 1	43 Jul 10	52 May 27 1992
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	a .00 Jan 1 1985
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 8	.00 Sep 22	b .00 Jan 1 1985
INSTANTANEOUS PEAK FLOW		73 Jul 10	c 81 Jun 14 1991
INSTANTANEOUS PEAK STAGE		c 2.35 Jul 10	d 2.35 Jul 10 1995
ANNUAL RUNOFF (AC-FT)	815	1440	1210
10 PERCENT EXCEEDS	.74	3.6	3.5
50 PERCENT EXCEEDS	.00	.03	.02
90 PERCENT EXCEEDS	.00	.01	.00

a-No flow many days each year.

b-From rating curve extended above 33 ft³/s.

c-Maximum gage height, 5.43 ft, Jan 17, backwater from ice.

d-Maximum gage height 5.70 ft, May 30, 1991, backwater from ice.

09238750 MIDDLE FORK FISH CREEK NEAR BUFFALO PASS, CO

LOCATION.--Lat 40°26'54", Long 106°41'30", in NE¹/4SE¹/4 sec.10, T.6 N., R.83 W., Routt County, Hydrologic Unit 14050001, 30 ft downstream from culvert on Forest Service Road 310, on right bank 0.25 mi upstream from Fish Creek Reservoir, and 7.5 mi east of Steamboat Springs.

DRAINAGE AREA.--1.37 mi².

PERIOD OF RECORD.--August 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 9,955 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Apr. 6 and Aug. 26 to Sept. 7. Records good except for estimated daily discharges, which are fair. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	.32	.31	.21	.18	.16	.18	.29	5.5	32	2.1	.24
2	.36	.31	.30	.21	.18	.16	.19	.29	7.6	36	2.2	.22
3	.33	.32	.30	.21	.17	.16	.19	.29	9.0	37	2.0	.21
4	.33	.32	.30	.21	.18	.16	.20	.29	10	31	2.1	.20
5	.22	.33	.30	.21	.17	.17	.23	.33	12	35	1.8	.20
6	.49	.35	.31	.20	.18	.17	.24	.37	14	46	1.6	.22
7	.48	.38	.30	.19	.17	.17	.31	.37	19	56	1.5	.26
8	.34	.37	.30	.19	.17	.16	.38	.34	23	57	1.3	.34
9	.37	.39	.30	.19	.17	.16	.34	.33	23	60	1.2	.32
10	.50	.35	.29	.19	.18	.16	.32	.37	13	65	1.2	.26
11	.74	.35	.30	.18	.18	.18	.29	.66	9.6	58	1.5	.37
12	.72	.35	.29	.18	.18	.17	.28	.58	16	50	.83	.25
13	.88	.37	.30	.18	.18	.17	.31	.53	26	51	.50	.24
14	.87	.35	.29	.18	.18	.17	.44	.54	32	33	.43	.24
15	.66	.35	.28	.19	.17	.17	.37	1.0	37	26	.40	.23
16	.53	.34	.28	.18	.16	.18	.34	1.8	40	21	.35	.21
17	.40	.36	.27	.19	.16	.21	.33	2.1	40	18	.35	.21
18	.54	.36	.27	.18	.16	.20	.33	1.6	28	14	.30	.26
19	.51	.35	.27	.19	.16	.20	.32	1.9	31	14	.30	.48
20	.43	.34	.26	.19	.15	.19	.31	2.6	38	12	.34	.84
21	.41	.34	.26	.19	.16	.19	.30	3.0	42	9.7	.31	.78
22	.41	.33	.26	.18	.16	.19	.29	3.3	46	7.8	.44	.76
23	.43	.32	.26	.18	.16	.19	.29	3.6	43	6.5	.28	.62
24	.42	.33	.26	.18	.16	.19	.29	3.7	36	5.5	.30	.51
25	.40	.33	.26	.18	.17	.18	.29	3.9	33	4.6	.48	.39
26	.40	.33	.24	.19	.17	.18	.29	4.1	38	3.8	.26	.34
27	.39	.32	.23	.18	.17	.19	.28	4.2	43	3.2	.25	.31
28	.42	.32	.23	.18	.17	.19	.30	4.0	45	2.9	.24	.42
29	.47	.31	.23	.18	---	.19	.29	3.2	37	2.5	.26	2.9
30	.38	.32	.23	.17	---	.19	.30	3.1	32	2.3	.25	1.6
31	.33	---	.21	.18	---	.18	---	3.2	---	2.2	.26	---
TOTAL	14.32	10.21	8.49	5.84	4.75	5.53	8.82	55.88	828.7	803.0	25.63	14.43
MEAN	.46	.34	.27	.19	.17	.18	.29	1.80	27.6	25.9	.83	.48
MAX	.88	.39	.31	.21	.18	.21	.44	4.2	46	65	2.2	2.9
MIN	.16	.31	.21	.17	.15	.16	.18	.29	5.5	2.2	.24	.20
AC-FT	28	20	17	12	9.4	11	17	111	1640	1590	51	29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1995, BY WATER YEAR (WY)

MEAN	.56	.44	.31	.20	.19	.23	1.55	11.8	25.7	5.06	.49	.38
MAX	1.38	.73	.45	.43	.45	.47	8.56	24.4	42.1	25.9	.83	.58
(WY)	1987	1987	1987	1987	1987	1985	1987	1992	1991	1995	1995	1985
MIN	.17	.20	.19	.062	.054	.075	.26	1.80	6.42	.30	.13	.11
(WY)	1989	1989	1989	1994	1988	1989	1986	1995	1987	1994	1994	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1985 - 1995
ANNUAL TOTAL	907.48	1785.60	
ANNUAL MEAN	2.49	4.89	3.90
HIGHEST ANNUAL MEAN			4.94
LOWEST ANNUAL MEAN			2.55
HIGHEST DAILY MEAN	36 Jun 3	65 Jul 10	97 Jun 14 1991
LOWEST DAILY MEAN	a .00 Jan 1	.15 Feb 20	b .00 Feb 18 1988
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.16 Feb 16	d .00 Dec 31 1993
INSTANTANEOUS PEAK FLOW		c 143 Jul 13	d 178 Jul 15 1991
INSTANTANEOUS PEAK STAGE		3.50 Jul 13	e 3.50 Jul 13 1995
ANNUAL RUNOFF (AC-FT)	1800	3540	2830
10 PERCENT EXCEEDS	5.9	20	13
50 PERCENT EXCEEDS	.29	.32	.35
90 PERCENT EXCEEDS	.08	.18	.15

a-Also occurred Jan 2-9, 12-15, 17-20, Feb 1-2.

b-Also occurred Feb 19-20, 1988, Dec 31, 1993, Jan 1-9, 12-15, 17-20, and Feb 1-2, 1994.

c-From rating extended above 34 ft³/s.

d-From rating curve extended above 60 ft³/s.

e-Maximum gage height, 4.56 ft, Jun 6, 1986.

09238770 GRANITE CREEK NEAR BUFFALO PASS, CO

LOCATION.--Lat 40°29'35", Long 106°41'31", NE¹/4NE¹/4 sec.15, T.6 N., R.83 W., Routt County, Hydrologic Unit 14050001, on left bank 0.1 mi upstream from Fish Creek Reservoir and 7.5 mi east of Steamboat Springs.

DRAINAGE AREA.--2.82 mi².

PERIOD OF RECORD.--August 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 9,875 ft above sea level, from topographic map. Prior to Sept. 30, 1992, at site 300 ft downstream, at differant datum.

REMARKS.--Estimated daily discharges: May 11 to Aug. 1, and Sept. 17-30. Records good except for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report. At times it is not possible to determine peak flows at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.51	.67	.75	.46	.46	.48	.49	.56	8.5	35	7.0	.99
2	.82	.66	.70	.47	.45	.55	.49	.57	9.0	40	6.7	1.0
3	.73	.68	.71	.48	.43	.56	.48	.56	9.5	41	6.1	1.1
4	.70	.72	.71	.49	.46	.50	.45	.56	10	35	6.3	.98
5	.60	.83	.70	.52	.47	.52	.48	.61	12	39	5.6	1.0
6	.99	.80	.67	.49	.47	.50	.49	.71	16	50	4.9	1.1
7	1.2	.75	.64	.49	.48	.50	.60	.68	24	60	4.2	.98
8	.91	.77	.63	.51	.49	.53	.66	.65	25	61	3.6	1.1
9	.86	.92	.56	.55	.50	.50	.59	.61	25	64	3.3	1.1
10	.95	.94	.59	.50	.49	.48	.51	.85	16	69	3.1	1.0
11	1.1	.97	.58	.47	.50	.51	.48	1.7	12	62	3.4	1.3
12	1.2	.82	.56	.46	.52	.48	.52	.60	20	54	4.8	.90
13	1.5	.82	.59	.45	.52	.47	.56	1.5	30	56	2.5	.84
14	1.5	.90	.60	.43	.49	.49	.78	1.5	36	42	2.3	.86
15	1.3	.84	.59	.45	.44	.46	.62	3.0	40	36	2.1	.83
16	.99	.81	.61	.43	.42	.49	.58	5.0	43	30	1.7	.78
17	.86	.88	.62	.43	.45	.53	.57	6.0	43	30	1.7	.78
18	1.6	.81	.58	.43	.46	.49	.54	4.5	31	25	1.4	.82
19	1.6	.86	.60	.44	.46	.46	.54	5.5	33	25	1.4	1.1
20	1.2	.80	.59	.46	.47	.47	.51	7.0	44	23	1.7	1.3
21	.91	.81	.56	.45	.46	.50	.52	7.5	48	20	1.5	1.2
22	.85	.79	.57	.45	.46	.48	.52	7.8	51	17	2.5	1.2
23	.86	.71	.62	.45	.48	.44	.50	8.0	47	16	1.7	1.0
24	.88	.81	.63	.44	.48	.48	.49	8.2	41	15	2.0	.90
25	.83	.75	.63	.49	.50	.45	.49	8.5	37	14	2.3	.80
26	.79	.74	.62	.48	.47	.46	.51	8.8	47	13	1.5	.75
27	.75	.71	.61	.46	.45	.47	.51	9.0	47	12	1.4	.75
28	.89	.76	.60	.46	.46	.47	.56	8.5	49	11	1.4	.85
29	.88	.76	.61	.48	---	.47	.56	8.2	40	10	1.2	3.2
30	.73	.78	.61	.43	---	.47	.56	8.0	35	9.0	1.1	2.5
31	.72	---	.50	.43	---	.47	---	8.2	---	8.0	1.0	---
TOTAL	30.21	23.87	19.14	14.43	13.19	15.13	16.16	133.36	929.0	1022.0	91.4	33.01
MEAN	.97	.80	.62	.47	.47	.49	.54	4.30	31.0	33.0	2.95	1.10
MAX	1.6	.97	.75	.55	.52	.56	.78	9.0	51	69	7.0	3.2
MIN	.51	.66	.50	.43	.42	.44	.45	.56	8.5	8.0	1.0	.75
AC-FT	60	47	38	29	26	30	32	265	1840	2030	181	65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1995, BY WATER YEAR (WY)

MEAN	1.19	.90	.64	.47	.47	.56	2.13	17.7	42.3	9.64	1.55	1.06
MAX	2.50	1.47	1.15	.73	.71	1.16	10.2	34.3	71.4	33.0	2.95	2.05
(WY)	1987	1987	1986	1994	1993	1986	1987	1989	1988	1995	1995	1993
MIN	.42	.39	.21	.20	.18	.19	.33	2.40	17.2	2.07	.75	.52
(WY)	1989	1991	1991	1985	1991	1991	1991	1991	1987	1994	1988	1994

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1985 - 1995

ANNUAL TOTAL	1826.58	2340.90	
ANNUAL MEAN	5.00	6.41	6.54
HIGHEST ANNUAL MEAN			8.21
LOWEST ANNUAL MEAN			5.01
HIGHEST DAILY MEAN	71 Jun 1	69 Jul 10	126 Jun 11 1990
LOWEST DAILY MEAN	.41 Sep 29	.42 Feb 16	.13 Mar 21 1988
ANNUAL SEVEN-DAY MINIMUM	.44 Sep 23	.44 Jan 13	.14 Mar 18 1988
INSTANTANEOUS PEAK FLOW		a ₆₉ Jul 10	b ₁₂₆ Jun 11 1990
INSTANTANEOUS PEAK STAGE		c _{11.05} Jun 6	d _{11.05} Jun 6 1995
ANNUAL RUNOFF (AC-FT)	3620	4640	4740
10 PERCENT EXCEEDS	17	25	24
50 PERCENT EXCEEDS	.74	.78	.80
90 PERCENT EXCEEDS	.57	.46	.36

a-Estimated maximum daily discharge.

b-Maximum daily discharge.

c-Backwater from ice.

d-Maximum gage height, backwater from ice.

09238900 FISH CREEK AT UPPER STATION, NEAR STEAMBOAT SPRINGS, CO

LOCATION.--Lat 40°28'30", long 106°47'11", in SE¹/4SE¹/4 sec.15, T.6 N., R.84 W., Routt County, Hydrologic Unit 14050001, on right bank 2.6 mi upstream from mouth and 2.5 mi east of Steamboat Springs.

DRAINAGE AREA.--24.8 mi².

PERIOD OF RECORD.--October 1966 to September 1972, May 1982 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 7,150 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Jan. 21, 22. Records good. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	5.7	4.8	7.9	2.9	7.1	9.6	22	199	495	36	2.3
2	3.2	5.0	4.5	2.6	3.1	6.7	8.8	25	240	491	31	3.2
3	3.4	4.0	4.3	2.4	2.9	6.4	10	25	256	503	26	2.4
4	3.4	3.8	4.3	2.5	2.8	6.2	13	24	289	515	25	1.8
5	3.0	4.5	4.0	2.7	2.8	6.1	17	30	437	459	24	2.7
6	4.1	4.6	4.2	2.8	3.1	6.2	20	32	465	506	20	3.2
7	5.0	4.6	4.4	2.5	2.9	5.8	26	30	431	540	17	1.9
8	4.7	4.8	4.6	2.7	2.8	6.0	31	28	419	560	15	2.3
9	4.3	5.2	5.0	3.6	2.9	5.5	28	29	371	562	12	2.4
10	4.2	6.4	5.6	4.0	3.3	6.1	24	34	241	570	10	1.7
11	4.3	5.2	6.2	3.9	3.0	7.7	22	43	212	565	12	3.6
12	5.3	4.9	5.5	3.7	3.1	7.7	20	49	322	526	21	1.6
13	4.8	4.6	4.4	4.0	3.1	7.2	22	43	491	511	14	1.1
14	6.1	3.8	3.6	3.8	3.2	8.2	25	48	564	505	11	1.4
15	5.7	4.8	3.5	3.5	3.5	10	22	81	587	404	7.5	1.1
16	4.6	6.5	3.7	3.3	3.4	14	22	100	620	342	3.6	.77
17	2.9	5.9	3.7	3.9	3.3	16	23	108	577	302	2.7	.92
18	3.1	6.0	3.5	4.2	3.1	16	22	101	488	262	8.9	1.3
19	4.4	5.3	3.2	4.2	3.2	17	21	131	509	244	6.0	3.5
20	3.0	4.7	3.0	4.0	3.2	15	20	142	567	217	4.9	5.0
21	3.5	4.6	2.8	4.0	3.6	14	19	157	575	193	5.1	7.5
22	3.7	4.6	2.7	4.2	4.0	13	18	184	579	167	5.5	5.9
23	3.8	4.9	2.9	4.4	4.6	14	18	196	576	148	4.3	5.5
24	4.5	4.8	3.2	3.8	4.9	13	17	152	537	133	4.8	5.1
25	4.4	4.5	3.1	3.3	5.7	13	17	138	514	119	6.1	4.0
26	4.3	4.3	3.0	3.2	6.9	11	16	135	523	105	3.9	3.4
27	4.5	4.2	2.8	3.3	7.0	11	16	125	556	92	1.9	3.0
28	4.0	4.1	2.8	3.5	7.2	12	17	106	576	81	1.8	3.3
29	6.0	4.3	2.7	3.5	---	14	19	102	556	68	1.6	25
30	5.7	4.7	2.9	3.4	---	11	22	116	520	46	1.3	22
31	4.3	---	6.6	2.7	---	11	---	144	---	42	1.2	---
TOTAL	129.5	145.3	121.5	111.5	105.5	317.9	585.4	2680	13797	10273	345.1	128.89
MEAN	4.18	4.84	3.92	3.60	3.77	10.3	19.5	86.5	460	331	11.1	4.30
MAX	6.1	6.5	6.6	7.9	7.2	17	31	196	620	570	36	25
MIN	1.3	3.8	2.7	2.4	2.8	5.5	8.8	22	199	42	1.2	.77
AC-FT	257	288	241	221	209	631	1160	5320	27370	20380	685	256
a	79.5	123	161	181	165	183	139	126	189	308	323	205

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1995, BY WATER YEAR (WY)

	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	10.2	9.77	7.33	5.93	5.72	9.02	35.6	206	370	90.9	9.06	6.86																	
MAX	27.7	19.5	12.0	10.7	9.37	16.1	59.0	358	570	331	19.5	18.0																	
(WY)	1983	1983	1970	1970	1970	1986	1987	1969	1984	1995	1983	1992																	
MIN	2.52	3.07	2.55	2.46	3.42	5.02	8.21	85.5	124	9.82	.86	.73																	
(WY)	1993	1989	1989	1989	1989	1984	1983	1983	1987	1987	1994	1994																	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1967 - 1995

ANNUAL TOTAL	15502.78	28740.59	
ANNUAL MEAN	42.5	78.7	
HIGHEST ANNUAL MEAN			98.6 1984
LOWEST ANNUAL MEAN			41.6 1989
HIGHEST DAILY MEAN	513 Jun 1	620 Jun 16	814 Jun 21 1968
LOWEST DAILY MEAN	.08 Aug 27	.77 Sep 16	.01 Aug 7 1972
ANNUAL SEVEN-DAY MINIMUM	.13 Aug 22	1.2 Sep 12	.11 Aug 7 1972
INSTANTANEOUS PEAK FLOW		861	1110 Jun 20 1968
INSTANTANEOUS PEAK STAGE		2.94	3.14 Jun 20 1968
ANNUAL RUNOFF (AC-FT)	30750	57010	
10 PERCENT EXCEEDS	128	410237	
50 PERCENT EXCEEDS	6.0		9.6
90 PERCENT EXCEEDS	.60	2.8	3.7

a-Diversions, in acre-feet, by Mount Werner Water and Sanitation District, and City of Steamboat Springs.

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.

PERIOD OF RECORD.--May 1904 to October 1906, October 1909 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder 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.--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.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	80	85	85	86	93	110	649	1600	1820	249	117
2	71	82	95	114	84	91	123	591	1810	1750	227	111
3	74	92	86	94	82	93	141	716	1980	1830	224	109
4	73	88	83	102	79	94	167	589	2140	2020	215	106
5	69	86	87	97	77	91	208	500	2540	1900	208	106
6	75	86	86	92	80	91	242	510	2900	1760	198	106
7	78	86	84	88	87	92	244	479	2870	1730	188	106
8	77	91	84	87	81	88	236	569	2740	1670	178	107
9	74	98	79	89	82	88	225	574	2630	1590	167	115
10	76	93	95	92	82	90	226	512	2120	1540	161	112
11	78	94	102	85	79	94	214	535	1900	1440	162	109
12	79	95	112	85	78	102	210	756	2240	1310	171	110
13	78	99	100	82	81	101	214	761	2740	1240	148	111
14	75	89	98	84	87	110	235	636	2990	1360	137	104
15	75	81	99	83	76	113	233	690	3350	1130	148	103
16	75	104	88	83	78	124	223	864	3410	991	142	102
17	74	110	88	84	84	140	252	904	3380	888	135	101
18	84	122	93	76	81	139	266	905	3100	810	133	102
19	86	134	92	79	80	151	245	938	2950	764	129	124
20	90	141	91	81	84	142	233	1060	3040	735	128	129
21	89	144	88	77	89	147	222	1140	3070	724	128	146
22	90	152	89	79	85	160	205	1250	3030	630	134	143
23	88	157	99	89	88	142	197	1410	2880	568	127	143
24	81	162	96	99	89	155	193	1360	2620	520	121	140
25	79	160	90	88	90	137	194	1240	2390	474	155	135
26	84	153	88	84	91	125	242	1160	2340	432	140	122
27	86	126	89	84	95	120	253	1120	2310	385	127	120
28	90	98	85	81	101	120	237	1020	2250	352	120	117
29	89	85	105	79	---	112	316	951	2190	318	118	169
30	87	82	99	78	---	111	772	1120	1990	280	115	196
31	77	---	85	84	---	111	---	1440	---	267	114	---
TOTAL	2469	3270	2840	2684	2356	3567	7078	26949	77500	33228	4847	3621
MEAN	79.6	109	91.6	86.6	84.1	115	236	869	2583	1072	156	121
MAX	90	162	112	114	101	160	772	1440	3410	2020	249	196
MIN	68	80	79	76	76	88	110	479	1600	267	114	101
AC-FT	4900	6490	5630	5320	4670	7080	14040	53450	153700	65910	9610	7180

MEAN	133	125	103	98.5	101	165	652	1716	1802	369	151	106
MAX	357	195	161	160	165	433	1675	3350	3771	1684	387	238
(WY)	1962	1947	1938	1938	1921	1910	1962	1984	1917	1957	1984	1961
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

ANNUAL TOTAL	99269		170409				
ANNUAL MEAN	272		467			461	
HIGHEST ANNUAL MEAN						821	1984
LOWEST ANNUAL MEAN						169	1977
HIGHEST DAILY MEAN	1980	May 18	3410	Jun 16		5870	Jun 14 1921
LOWEST DAILY MEAN	^a 53	Aug 16	68	Oct 1		^b 4.0	Sep 8 1934
ANNUAL SEVEN-DAY MINIMUM	55	Aug 21	73	Oct 1		^c 4.9	Sep 9 1944
INSTANTANEOUS PEAK FLOW			3720	Jun 16		^d 6820	Jun 14 1921
INSTANTANEOUS PEAK STAGE			6.63	Jun 16		^e 7.08	Jun 14 1921
ANNUAL RUNOFF (AC-FT)	196900		338000			334000	
10 PERCENT EXCEEDS	769		1690			1500	
50 PERCENT EXCEEDS	119		20			135	
90 PERCENT EXCEEDS	67		81			74	

d-Maximum gage height, 7.12 ft, Jun 25, 1984.

09242500 ELK RIVER NEAR MILNER, CO

LOCATION.--Lat 40°30'53", long 106°57'12", in NW¹/4NW¹/4 sec.5, T.6 N., R.85 W., Routt County, Hydrologic Unit 14050001, on left bank 30 ft downstream from bridge on County Road 44, 2.5 mi upstream from mouth, and 3.2 mi east of Milner.

DRAINAGE AREA.--415 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1904 to September 1909, October 1920 to September 1927, (published as " near Trull"). April 1990 to current year. 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.--Estimated daily discharges: Nov. 24 to Mar. 16. Records good except for estimated daily discharges, which are poor. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	56	92	55	50	52	146	684	2430	2350	700	136
2	66	62	93	54	51	48	172	970	2690	2190	656	130
3	84	61	92	58	50	50	181	1040	2950	2590	595	118
4	88	56	90	59	48	48	192	829	3100	2510	568	110
5	98	50	88	60	48	46	250	749	3690	1960	554	106
6	108	63	86	61	48	48	312	768	4110	2090	503	109
7	118	70	84	62	48	50	361	701	3990	2510	481	113
8	106	80	82	61	49	50	468	729	3300	2740	461	158
9	97	83	80	60	47	60	442	767	3200	2600	460	205
10	94	61	78	58	46	70	347	789	2470	2930	412	153
11	96	58	78	55	45	80	331	953	2110	2970	385	138
12	96	69	78	53	45	90	317	1360	2520	2910	415	127
13	91	74	78	51	45	100	334	1200	3160	2670	335	115
14	87	55	76	52	46	115	430	1120	3690	2710	300	105
15	86	47	76	54	45	125	366	1300	4060	2090	271	95
16	92	83	76	54	44	175	353	1780	3940	1890	247	90
17	87	83	74	56	45	219	426	1740	3870	1770	231	87
18	93	91	74	56	46	226	425	1720	3400	1650	223	86
19	100	87	76	54	47	301	404	1820	2970	1670	205	123
20	99	82	78	52	48	276	404	2290	3250	1760	206	125
21	94	82	78	52	46	278	469	2280	3310	1570	196	154
22	91	78	76	50	47	326	450	2720	3230	1450	191	133
23	90	91	74	50	48	231	437	2680	2890	1320	181	121
24	86	91	72	52	48	266	435	2270	2600	1230	181	122
25	72	92	70	50	48	199	431	2250	2520	1140	226	119
26	72	93	68	50	50	184	455	2100	2570	1130	191	112
27	75	92	64	50	52	167	435	1840	2830	1080	169	111
28	82	93	62	50	53	149	428	1610	3070	990	178	112
29	73	94	60	50	---	155	469	1610	2940	901	166	214
30	69	92	61	48	---	144	652	1840	2520	867	153	261
31	53	---	62	46	---	127	---	2120	---	799	143	---
TOTAL	2698	2269	2376	1673	1333	4455	11322	46629	93380	59037	10183	3888
MEAN	87.0	75.6	76.6	54.0	47.6	144	377	1504	3113	1904	328	130
MAX	118	94	93	62	53	326	652	2720	4110	2970	700	261
MIN	53	47	60	46	44	46	146	684	2110	799	143	86
AC-FT	5350	4500	4710	3320	2640	8840	22460	92490	185200	117100	20200	7710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 1995, BY WATER YEAR (WY)

	MEAN	142	109	89.2	86.6	88.4	172	712	2071	2213	704	171	103
MAX	424	234	125	120	145	320	1214	3977	3824	1940	445	173	
(WY)	1919	1919	1926	1921	1921	1916	1919	1920	1917	1917	1912	1916	
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1905 - 1995

ANNUAL TOTAL	126455	239243											
ANNUAL MEAN	346	655								563			
HIGHEST ANNUAL MEAN										886			1917
LOWEST ANNUAL MEAN										282			1992
HIGHEST DAILY MEAN	2380	May 18	4110	Jun 6	5350	Jun 15	1921						
LOWEST DAILY MEAN	17	Sep 12	44	Feb 16	a17	Sep 12	1994						
ANNUAL SEVEN-DAY MINIMUM	21	Sep 7	45	Feb 11	21	Sep 7	1994						
INSTANTANEOUS PEAK FLOW			4490	Jun 15	b5530	Jun 15	1921						
INSTANTANEOUS PEAK STAGE			6.67	Jun 15	6.67	Jun 15	1995						
ANNUAL RUNOFF (AC-FT)	250800	474500	408100										
10 PERCENT EXCEEDS	1470	2520	1900										
50 PERCENT EXCEEDS	86	123	133										
90 PERCENT EXCEEDS	45	50	64										

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.

09242500 ELK RIVER NEAR MILNER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1975 to September 1976 and April 1990 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO
DEC 21...	1400	78	153	8.1	0.0	10.8	60	18	3.7	4.0	0.2
MAR 22...	1430	286	252	8.0	4.5	10.5	100	27	8.8	8.7	0.4
JUN 06...	0930	4280	65	7.6	6.0	10.3	27	8.2	1.7	1.7	0.1
SEP 06...	1330	108	93	7.8	18.0	9.1	39	12	2.1	2.5	0.2

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINIT LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
DEC 21...	1.0	54	14	1.5	0.2	10	86	85	0.12	18.2
MAR 22...	2.2	65	50	2.5	0.2	10	170	151	0.23	131
JUN 06...	0.9	27	4.1	0.4	0.2	8.0	52	42	0.07	601
SEP 06...	1.1	39	6.6	0.8	0.1	5.6	59	54	0.08	17.2

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
DEC 21...	<0.01	0.09	<0.02	<0.20	<0.01	<0.01
MAR 22...	0.01	0.42	0.02	0.30	0.02	0.02
JUN 06...	<0.01	0.07	<0.02	0.30	<0.01	<0.01

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC 21...	<1	<1	130	70	<1	20	9	<0.1	<1	<1	<10
MAR 22...	<1	1	1200	220	<1	50	26	<0.1	2	<0.2	<10
JUN 06...	<1	2	--	140	<1	--	11	<0.1	<1	<0.2	<10
SEP 06...	<1	<1	80	110	<1	20	4	<0.1	<2	<0.2	<10

09242500 ELK RIVER NEAR MILNER, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT					MAY				
03...	1620	87	139	11.0	03...	1305	1000	211	5.0
NOV					24...	1030	2300	89	4.5
30...	1215	92	135	0.0	JUN				
FEB					13...	1525	2900	55	10.5
07...	0950	49	147	0.0	JUL				
MAR					05...	1515	1900	49	11.5
15...	1205	126	154	1.0	SEP				
					26...	1205	116	99	8.0

09243700 MIDDLE CREEK NEAR OAK CREEK, CO

LOCATION.--Lat 40°23'08", long 106°59'33", in SW¹/4SW¹/4 sec.13, T.5 N., R.86 W., Routt County, Hydrologic Unit 14050001, on left bank 1.1 mi upstream from mouth of Foidel Creek and 13.5 mi northwest of Oak Creek.

DRAINAGE AREA.--23.5 mi².

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.

REMARKS.--Estimated daily discharges: Nov. 29 to Mar. 5. Records good except for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	.13	.20	.33	.35	.34	.65	21	29	5.3	5.4	.65
2	3.1	.12	.18	.32	.35	.36	.69	20	26	6.7	7.9	.53
3	4.1	.19	.20	.32	.35	.38	.74	23	25	6.9	7.6	.47
4	3.8	.18	.15	.33	.35	.40	.78	19	25	7.7	8.3	.42
5	1.9	.16	.14	.34	.35	.42	.93	17	27	6.5	9.3	.41
6	.80	.17	.14	.36	.34	.44	1.0	16	22	5.4	9.4	.44
7	.43	.16	.16	.36	.34	.47	1.0	16	20	4.7	9.6	.40
8	.28	.17	.19	.37	.34	.47	1.1	18	19	3.6	7.9	.45
9	.27	.22	.18	.36	.34	.47	1.7	19	21	4.5	8.1	.50
10	.29	.26	.18	.37	.34	.45	1.9	18	19	4.8	8.3	.42
11	.22	.12	.18	.36	.32	.33	1.6	19	17	3.9	8.4	.48
12	.17	.10	.22	.36	.32	.16	1.6	24	15	3.4	8.6	.41
13	.16	.14	.22	.37	.32	.11	1.4	27	14	3.4	11	.30
14	.14	.14	.20	.36	.32	.09	1.3	25	13	4.0	19	.27
15	.16	.09	.22	.37	.32	.13	1.4	26	11	4.7	20	.19
16	.32	.09	.30	.37	.31	.52	1.7	29	11	4.1	20	.11
17	.19	.09	.28	.38	.31	.73	2.7	31	11	4.8	20	.08
18	.31	.10	.26	.38	.31	.83	3.0	29	14	5.7	19	.11
19	.31	.14	.28	.38	.31	1.4	2.8	29	10	5.6	18	.54
20	.27	.12	.26	.38	.31	1.2	2.8	29	8.8	5.5	19	.51
21	.23	.14	.28	.37	.31	1.9	2.8	29	7.9	4.6	13	.64
22	.20	.14	.30	.37	.31	3.0	2.7	27	7.3	4.5	4.7	.50
23	.17	.15	.30	.37	.30	1.7	2.5	25	6.8	4.6	4.5	.41
24	.16	.18	.28	.37	.30	1.6	2.5	24	6.1	3.8	4.1	.35
25	.15	.15	.30	.37	.30	1.1	2.6	28	5.8	3.4	2.5	.26
26	.15	.12	.32	.36	.30	.98	5.0	24	5.5	3.0	1.4	.23
27	.15	.13	.26	.36	.30	.89	5.4	25	5.5	2.3	1.0	.22
28	.16	.16	.34	.36	.32	.83	5.2	22	5.6	2.0	1.7	.28
29	.14	.18	.34	.36	---	.69	6.6	22	5.4	1.8	1.1	1.1
30	.12	.20	.36	.36	---	.71	17	26	5.3	1.9	1.1	2.3
31	.12	---	.36	.36	---	.66	---	27	---	1.8	1.1	---
TOTAL	21.27	4.44	7.58	11.18	9.04	23.76	83.09	734	419.0	134.9	281.0	13.98
MEAN	.69	.15	.24	.36	.32	.77	2.77	23.7	14.0	4.35	9.06	.47
MAX	4.1	.26	.36	.38	.35	3.0	17	31	29	7.7	20	2.3
MIN	.12	.09	.14	.32	.30	.09	.65	16	5.3	1.8	1.0	.08
AC-FT	42	8.8	15	22	18	47	165	1460	831	268	557	28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1995, BY WATER YEAR (WY)

MEAN	.40	.58	.54	.52	.74	1.92	10.5	22.2	5.31	1.67	1.03	.28
MAX	1.36	1.98	1.83	1.85	2.46	7.90	36.3	98.2	26.1	5.89	9.06	1.21
(WY)	1986	1985	1985	1985	1986	1986	1985	1984	1984	1984	1995	1985
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1976 - 1995	
ANNUAL TOTAL	397.78		1743.24			
ANNUAL MEAN	1.09		4.78		3.82	
HIGHEST ANNUAL MEAN					13.2	
LOWEST ANNUAL MEAN					.50	
HIGHEST DAILY MEAN	5.5 Mar 13		31 May 17		297 May 14 1984	
LOWEST DAILY MEAN	a .00 Aug 23		.08 Sep 17		a .00 Oct 1 1975	
ANNUAL SEVEN-DAY MINIMUM	.00 Aug 23		.11 Nov 12		.00 Oct 1 1975	
INSTANTANEOUS PEAK FLOW			32 May 17		b 329 May 14 1984	
INSTANTANEOUS PEAK STAGE			2.73 May 17		4.08 May 14 1984	
ANNUAL RUNOFF (AC-FT)	789		3460		2770	
10 PERCENT EXCEEDS	2.9		19		9.3	
50 PERCENT EXCEEDS	.54		.50		.70	
90 PERCENT EXCEEDS	.00		.16		.00	

a-No flow many days most years.

b-From rating curve extended above 77 ft³/s.

09243800 FOIDEL CREEK NEAR OAK CREEK, CO

LOCATION.--Lat 40°20'45", long 107°05'04", in NW¹/4SW¹/4 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 mi².

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.--Estimated daily discharges: Nov. 17, 18, 23-27, Dec. 9-15, 19-25, Jan. 1-9, Feb. 2, 9, 14 and Mar. 13, 14. Records good except for estimated daily discharge, which are fair. Natural flow of stream effected by Reservoir No. 1, which is 2.3 mi upstream of the gage. Several measurements of specific conductance, water temperature and pH were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.29	.31	.57	.50	.36	.17	.99	14	10	3.1	.92	.68
2	.37	.32	.53	.52	.38	.17	.74	18	6.9	3.0	.90	.68
3	.37	.32	.56	.54	.44	.18	.60	16	6.5	3.0	.90	.68
4	.36	.34	.46	.56	.39	.17	.76	7.9	7.1	3.2	.92	.69
5	.32	.40	.42	.58	.42	.16	1.1	5.5	8.9	2.9	.92	.70
6	.38	.43	.41	.62	.46	.15	.99	5.1	6.3	2.6	.89	.71
7	.39	.45	.44	.60	.40	.13	.93	4.5	5.6	2.3	.89	.70
8	.35	.42	.47	.60	.37	.14	.80	4.9	5.4	2.3	.87	.74
9	.34	.44	.48	.62	.37	.16	.93	6.9	6.1	2.2	.86	.77
10	.34	.42	.47	.61	.37	.17	.60	5.2	6.1	2.3	.86	.75
11	.34	.41	.46	.55	.20	.17	.42	5.0	5.6	2.2	.89	.76
12	.34	.45	.58	.52	.11	.19	.43	9.5	6.1	2.1	.90	.71
13	.32	.38	.58	.53	.44	.22	.41	9.0	5.4	2.2	.92	.70
14	.31	.43	.56	.51	.34	.26	.46	5.6	5.2	2.6	.90	.70
15	.29	.41	.54	.48	.28	.28	.43	4.9	5.2	2.6	.88	.67
16	.31	.49	.64	.51	.24	.66	.84	4.7	5.1	2.3	.83	.65
17	.31	.46	.57	.49	.35	.41	.93	5.4	5.2	2.2	.84	.67
18	.35	.46	.54	.47	.27	.47	1.3	5.4	6.1	2.2	.84	.69
19	.38	.48	.54	.37	.20	.72	1.4	5.6	5.2	2.2	.80	.78
20	.36	.49	.54	.29	.18	.77	1.5	5.7	4.9	2.1	.87	.80
21	.38	.44	.56	.18	.17	3.2	1.3	5.6	4.5	1.9	.84	.80
22	.37	.58	.57	.12	.17	1.5	1.2	5.2	4.2	1.7	.87	.72
23	.34	.60	.57	.07	.17	2.7	.95	4.9	4.0	1.6	.86	.69
24	.33	.60	.56	.05	.17	1.2	.92	5.1	3.8	1.5	.89	.68
25	.33	.60	.58	.10	.17	1.6	.96	8.5	3.6	1.4	.83	.69
26	.33	.60	.60	.88	.17	.84	3.9	5.9	3.4	1.4	.83	.66
27	.32	.58	.53	.11	.17	1.3	6.2	5.9	3.3	1.3	.83	.66
28	.33	.55	.66	.19	.21	1.1	3.9	6.2	3.3	1.2	.84	.66
29	.30	.58	.67	.23	---	.53	6.3	6.5	3.2	1.2	.80	.72
30	.29	.56	.62	.16	---	.75	29	8.1	3.1	1.1	.72	.85
31	.30	---	.51	.23	---	.59	---	7.6	---	.98	.68	---
TOTAL	10.44	14.00	16.79	12.79	7.97	21.06	71.19	218.3	159.3	64.88	26.59	21.36
MEAN	.34	.47	.54	.41	.28	.68	2.37	7.04	5.31	2.09	.86	.71
MAX	.39	.60	.67	.88	.46	3.2	29	18	10	3.2	.92	.85
MIN	.29	.31	.41	.05	.11	.13	.41	4.5	3.1	.98	.68	.65
AC-FT	21	28	33	25	16	42	141	433	316	129	53	42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1995, BY WATER YEAR (WY)

	MEAN	.50	.50	.41	.42	.76	1.73	5.66	4.19	1.56	.73	.40	.28
MAX	3.37	2.24	1.11	1.13	6.34	7.90	14.7	13.0	5.31	2.09	1.43	.80	
(WY)	1986	1986	1986	1986	1986	1986	1985	1985	1995	1995	1985	1986	
MIN	.000	.000	.000	.000	.000	.000	.11	.077	.024	.000	.000	.000	
(WY)	1976	1976	1976	1976	1976	1977	1978	1977	1977	1977	1976	1976	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1976 - 1995

ANNUAL TOTAL	297.38	644.67		
ANNUAL MEAN	.81	1.77	1.43	
HIGHEST ANNUAL MEAN			3.69	1986
LOWEST ANNUAL MEAN			.022	1977
HIGHEST DAILY MEAN	3.2 Mar 20	29 Apr 30	33 ^a	Apr 22 1980
LOWEST DAILY MEAN	.22 Sep 10	.05 Jan 24	.00	Oct 1 1975
ANNUAL SEVEN-DAY MINIMUM	.23 Sep 7	.15 Mar 4	.00	Oct 1 1975
INSTANTANEOUS PEAK FLOW		37 Apr 30	55	Apr 21 1980
INSTANTANEOUS PEAK STAGE		3.00 Apr 30	3.38	Apr 21 1980
ANNUAL RUNOFF (AC-FT)	590	1280	1030	
10 PERCENT EXCEEDS	1.6	5.4	3.9	
50 PERCENT EXCEEDS	.60	.67	.53	
90 PERCENT EXCEEDS	.29	.25	.00	

a-No flow many days most years.

09243900 FOIDEL CREEK AT MOUTH, NEAR OAK CREEK, CO

LOCATION.--Lat 40°23'25", long 106°59'39", in SE¹/4SE¹/4 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 mi².

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.--Estimated daily discharges: Dec. 1 to Feb. 17. Records good those for estimated daily discharges, which are poor. Several measurements of specific conductance, water temperature and pH were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.56	.34	.53	.64	.78	.95	1.3	27	9.9	3.9	1.1	.31
2	.50	.38	.52	.64	.78	.94	1.3	20	7.8	3.9	1.1	.29
3	.45	.39	.53	.64	.78	1.1	1.2	25	6.4	3.4	1.0	.25
4	.41	.44	.43	.63	.78	1.1	1.1	16	7.6	5.2	1.0	.24
5	.27	.40	.39	.62	.80	.90	1.2	11	13	3.2	1.0	.31
6	.32	.49	.38	.64	.80	1.0	1.3	8.0	11	3.9	.98	.36
7	.32	.53	.40	.64	.80	1.1	1.3	6.2	8.4	3.7	.90	.70
8	.32	.55	.44	.64	.82	1.1	2.3	7.5	7.8	2.9	.83	.97
9	.31	.62	.42	.64	.84	1.2	2.5	7.8	11	2.7	.80	.86
10	.31	.54	.42	.64	.86	1.3	2.3	7.0	9.9	2.7	.81	.76
11	.31	.50	.42	.66	.88	1.2	1.6	5.8	6.6	3.0	.89	.70
12	.30	.52	.46	.66	.90	1.1	1.2	14	6.7	2.5	1.1	.65
13	.34	.55	.46	.66	.92	1.1	1.0	17	5.9	2.7	.98	.47
14	.37	.41	.44	.66	.94	1.2	1.0	9.9	6.2	3.6	.97	.44
15	.36	.30	.46	.67	.96	1.4	1.1	7.2	5.7	3.9	.95	.42
16	.38	.40	.60	.67	.96	1.8	1.2	6.0	5.5	2.7	.85	.30
17	.39	.38	.53	.68	1.0	3.6	1.9	6.5	7.3	2.8	.80	.25
18	.48	.25	.50	.68	.97	4.4	2.2	6.2	12	2.7	.69	.34
19	.46	.58	.52	.68	1.0	4.8	2.1	5.7	7.5	2.6	.67	1.0
20	.44	.62	.50	.68	1.0	3.7	2.7	6.9	6.0	1.9	.72	1.0
21	.42	.55	.52	.70	1.0	6.9	2.6	7.2	5.3	2.4	.75	1.1
22	.42	.50	.54	.70	1.0	6.3	2.6	5.8	4.8	2.8	.81	.87
23	.40	.40	.54	.70	1.0	3.8	2.3	5.4	4.7	2.5	.89	.85
24	.37	.48	.52	.72	.99	3.2	1.9	6.1	4.4	2.3	.92	.85
25	.34	.35	.54	.72	.96	2.4	2.0	11	4.2	2.0	.91	.86
26	.35	.40	.56	.72	.97	2.1	4.3	8.4	4.1	1.9	.79	1.2
27	.36	.46	.52	.74	.96	1.7	6.8	8.4	4.2	1.8	.70	1.1
28	.36	.51	.66	.74	.93	1.8	5.4	7.2	4.1	1.3	.65	1.2
29	.37	.51	.68	.76	---	1.6	8.5	6.6	3.6	1.3	.52	1.7
30	.36	.51	.62	.76	---	1.3	28	9.3	3.4	1.2	.40	2.0
31	.31	---	.52	.76	---	1.2	---	10	---	1.2	.36	---
MEAN	.38	.46	.50	.68	.91	2.17	3.21	9.87	6.83	2.73	.83	.74
MAX	.56	.62	.68	.76	1.0	6.9	28	27	13	5.2	1.1	2.0
MIN	.27	.25	.38	.62	.78	.90	1.0	5.4	3.4	1.2	.36	.24
AC-FT	23	27	31	42	50	133	191	607	407	168	51	44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1995, BY WATER YEAR (WY)

MEAN	.77	.98	.90	.93	1.48	4.92	12.8	8.30	2.92	1.39	.69	.42
MAX	4.05	5.03	5.96	6.01	10.4	17.0	33.6	34.9	10.8	3.68	2.84	1.77
(WY)	1986	1986	1986	1986	1986	1986	1985	1984	1984	1984	1983	1984
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 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1976 - 1995
ANNUAL MEAN	.98	2.45	3.04
HIGHEST ANNUAL MEAN			7.63
LOWEST ANNUAL MEAN			.070
HIGHEST DAILY MEAN	4.0 Apr 9	28 Apr 30	79 Apr 25 1984
LOWEST DAILY MEAN	a.00 Jul 22	.24 Sep 4	b.00 Oct 1 1975
ANNUAL SEVEN-DAY MINIMUM	.00 Aug 2	.30 Aug 31	.00 Oct 1 1975
INSTANTANEOUS PEAK FLOW		41 Apr 30	90 Apr 22 1980
INSTANTANEOUS PEAK STAGE		5.25 Apr 30	5.25 Apr 30 1995
ANNUAL RUNOFF (AC-FT)	708	1780	2200
10 PERCENT EXCEEDS	2.5	6.8	7.8
50 PERCENT EXCEEDS	.56	.95	.91
90 PERCENT EXCEEDS	.02	.38	.00

a-No flow many days.

b-No flow many days, most years.

09243900 FOIDEL CREEK AT MOUTH, NEAR OAK CREEK, CO--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--July 19, 1978 to current year.

INSTRUMENTATION.--Belfort weighing bucket rain-gage.

REMARKS.--Unpublished rainfall data for water years 1978-86 are available in district office. Record missing July 7 to July 30.

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.01	.02	.00	.16	.00	.00
2	.00	.01	.00	.00	.00	.05	.00	.54	.00	.40	.00	.00
3	.07	.39	.00	.02	.00	.01	.00	.14	.00	.00	.00	.00
4	.00	.00	.00	.02	.00	.04	.00	.02	.08	.00	.09	.00
5	.05	.00	.04	.07	.00	.29	.00	.00	.05	.00	.00	.11
6	.07	.00	.23	.07	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.13	.05	.04	.00	.00	.00	.00	---	.00	.05
8	.01	.11	.01	.00	.18	.00	.00	.14	.29	---	.00	.04
9	.00	.04	.02	.00	.05	.00	.00	.01	.12	---	.00	.00
10	.00	.00	.00	.00	.15	.00	.00	.00	.00	---	.00	.09
11	.00	.00	.00	.04	.00	.05	.00	.00	.00	---	.18	.06
12	.00	.08	.00	.10	.13	.03	.00	.88	.00	---	.00	.00
13	.00	.22	.10	.04	.07	.00	.00	.00	.00	---	.00	.00
14	.00	.04	.00	.00	.00	.00	.00	.04	.00	---	.00	.00
15	.00	.00	.02	.02	.00	.00	.03	.00	.00	---	.00	.00
16	.05	.04	.00	.08	.00	.00	.14	.00	.00	---	.00	.00
17	.23	.10	.00	.02	.00	.00	.47	.15	.69	---	.00	.00
18	.09	.01	.01	.02	.00	.00	.00	.00	.00	---	.00	.34
19	.00	.02	.00	.06	.00	.24	.06	.00	.00	---	.00	.00
20	.00	.11	.00	.01	.00	.00	.06	.45	.00	---	.00	.22
21	.00	.08	.00	.00	.00	.00	.03	.00	.00	---	.11	.05
22	.00	.02	.00	.00	.00	.03	.05	.00	.00	---	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.02	.00	---	.14	.00
24	.00	.00	.00	.00	.00	.00	.00	.28	.00	---	.06	.00
25	.00	.00	.00	.08	.00	.03	.37	.02	.00	---	.00	.00
26	.00	.04	.00	.04	.00	.00	.23	.39	.00	---	.00	.00
27	.00	.05	.00	.07	.02	.00	.02	.12	.00	---	.00	.00
28	.00	.15	.00	.00	.00	.00	.30	.00	.00	---	.00	.19
29	.00	.02	.02	.00	---	.00	.50	.30	.00	---	.00	1.06
30	.00	.22	.00	.06	---	.00	.83	.33	.00	---	.00	.25
31	.00	---	.00	.01	---	.00	---	.00	---	.00	.00	---
TOTAL	0.57	1.75	0.58	0.88	0.64	0.77	3.10	3.85	1.23	---	0.58	2.46

09245000 ELKHEAD CREEK NEAR ELKHEAD, CO

LOCATION.--Lat 40°40'11", long 107°17'04", in NW¹/4NE¹/4 sec.8, T.8 N., R.88 W., Routt County, Hydrologic Unit 14050001, on right bank 0.2 mi upstream from North Fork Elkhead Creek, 4.5 mi northwest of Elkhead, and 12 mi north of Hayden.

DRAINAGE AREA.--67.7 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January to November 1910 and May to November 1920 (monthly discharge only, published in WSP 1313; published as "at Hayes Ranch"), April 1953 to current year.

REVISED RECORDS.--WDR CO-94-2: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,845 ft above sea level, from topographic map. Prior to Nov. 30, 1920, nonrecording gage or water-stage recorder 675 ft upstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 1 to Oct. 23, Nov. 12 to Mar. 22. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	4.0	4.8	5.5	6.8	11.9	24	117	634	97	22	3.7
2	2.2	4.5	4.6	5.6	6.6	13	25	201	629	96	20	3.7
3	2.4	4.8	4.7	5.3	6.7	13	26	202	595	95	19	3.7
4	2.6	4.9	4.3	5.2	6.3	14	33	169	579	99	18	3.7
5	2.7	4.1	4.1	5.3	6.2	16	61	250	650	99	17	3.7
6	2.6	4.5	4.4	5.5	6.5	18	117	260	636	93	16	3.5
7	3.1	4.6	4.6	5.1	6.1	19	166	226	544	88	15	3.3
8	3	4.9	4.9	5.3	5.7	20	195	244	480	84	14	3.3
9	3.4	4.9	4.8	5	5.5	21	134	251	470	80	13	3.3
10	3.6	4.5	5.4	4.7	5.4	22	85	304	400	76	12	3.3
11	3.8	4.3	5.7	4.3	5.5	22	61	453	341	72	11	3.3
12	3.7	4.9	5.8	4	5.2	23	57	623	347	69	11	3.3
13	4.2	5.8	5.6	3.9	5	24	108	470	376	65	10	3.3
14	4.3	4	5.9	3.7	4.7	24	172	487	366	62	9.4	3.3
15	4.5	5.6	5.7	3.3	4.6	25	100	656	355	60	8.7	3.3
16	4.8	6.6	5.6	3	4.4	25	79	759	335	57	8.0	3.3
17	4.7	6.4	6.1	2.8	5.1	26	99	713	312	54	7.3	3.3
18	5	6	6.2	2.5	5.5	27	77	688	344	52	6.6	3.3
19	5.2	5.8	6	3.8	6	28	89	695	264	49	6.0	3.3
20	5.4	5.9	6.3	4.5	6.2	27	78	731	230	47	5.3	3.5
21	5.6	5.7	6.2	6.1	7.2	26	68	764	209	45	4.9	3.5
22	5.7	5.5	6	6.2	7.5	27	59	836	190	43	4.5	3.5
23	5.8	5.1	6.1	6.1	8.1	29	60	740	167	41	4.0	3.5
24	5.7	5.4	5.7	6	9	29	55	627	148	38	3.8	3.5
25	5.3	5	5.8	6.4	9.1	25	58	631	135	36	3.6	3.5
26	5.2	4.7	5.4	6.5	10.1	24	54	578	123	33	3.5	3.5
27	5.3	4.6	5.5	6.4	10.7	20	51	575	114	31	3.6	3.5
28	5.1	4	5.7	6.7	11.3	19	71	533	111	29	3.7	3.5
29	5.0	4	5.3	6.8	---	18	74	577	109	26	3.7	4.3
30	5.2	4.3	5.4	6.6	---	21	146	680	103	24	3.7	7.8
31	4.4	---	5.1	6.9	---	25	---	662	---	23	3.7	---
TOTAL	131.4	149.3	167.7	159.0	187.0	681.9	2482	15702	10296	1863	292.0	108.5
MEAN	4.24	4.98	5.41	5.13	6.68	22.0	82.7	507	343	60.1	9.42	3.62
MAX	5.8	6.6	6.3	6.9	11	29	195	836	650	99	22	7.8
MIN	1.9	4.0	4.1	2.5	4.4	12	24	117	103	23	3.5	3.3
AC-FT	261	296	333	315	371	1350	4920	31140	20420	3700	579	215

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1995, BY WATER YEAR (WY)

MEAN	6.51	6.72	5.83	5.33	5.64	11.1	113	360	120	14.9	4.61	3.58
MAX	25.6	21.9	14.8	13.3	13.4	40.8	316	830	357	60.1	14.4	15.5
(WY)	1987	1987	1987	1987	1974	1986	1962	1984	1957	1995	1984	1984
MIN	1.71	1.45	1.95	1.78	2.20	3.50	16.0	64.4	11.3	.94	.30	.22
(WY)	1978	1961	1992	1977	1959	1955	1970	1977	1977	1977	1961	1955

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1953 - 1995
ANNUAL TOTAL	12354.14	32219.8	
ANNUAL MEAN	33.8	88.3	55.4
HIGHEST ANNUAL MEAN			113
LOWEST ANNUAL MEAN			16.6
HIGHEST DAILY MEAN	515	836	1890
LOWEST DAILY MEAN	.77	1.9	a .00
ANNUAL SEVEN-DAY MINIMUM	.86	2.5	.00
INSTANTANEOUS PEAK FLOW		1080	b 2850
INSTANTANEOUS PEAK STAGE		5.71	7.58
ANNUAL RUNOFF (AC-FT)	24500	63910	40160
10 PERCENT EXCEEDS	106	342	175
50 PERCENT EXCEEDS	5.7	6.7	6.7
90 PERCENT EXCEEDS	1.8	3.5	2.2

a-Also occurred Sep 12-19, 24, 1955, Aug 27-29, 1961, Aug 14-19, 1977.

b-From rating curve extended above 1500 ft³/s, on basis of slope-area determination of peak flow.

09245000 ELKHEAD CREEK NEAR ELKHEAD, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)
DEC 21...	1000	6.1	305	8.0	0.0	11.2	K6	K9	<0.01	<0.05	<0.02	<0.20
MAR 22...	1130	28	362	8.0	1.0	10.9	35	29	0.01	0.21	0.03	0.20
JUN 01...	1330	601	134	7.9	8.0	10.5	160	110	<0.01	0.13	0.02	0.30
SEP 06...	1600	3.6	226	8.7	22.0	8.4	70	60	<0.01	<0.05	<0.02	0.20

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CADMIUM DIS- SOLVED (UG/L AS CD)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC 21...	<0.01	<0.01	<1	1	290	<1	<10	10	<0.1	<1	<1	<10
MAR 22...	<0.01	<0.01	<1	2	--	<1	--	60	<0.1	1	<0.2	<10
JUN 01...	<0.01	<0.01	<1	2	1700	<1	60	<10	--	<1	<0.2	<10
SEP 06...	<0.01	<0.01	<1	2	30	<1	10	<10	<0.1	<2	<0.2	<10

K-Based on non-ideal colony count.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 24...	1059	5.8	301	5.0	JUN 23...	1133	166	116	10.5
APR 26...	1202	51	267	3.0	AUG 31...	1635	3.6	222	23.5

09246200 ELKHEAD CREEK ABOVE LONG GULCH, NEAR HAYDEN, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July to September 1995

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: August to September 1995.

SPECIFIC CONDUCTANCE: September 1995

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--No previous water-quality at this site.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Not determined.

WATER TEMPERATURE: Not determined.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Not determined

WATER TEMPERATURE: Not determined.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
JUL 11...	1415	62	200	8.6	25.0	7.5	7.8	84	22	7.0	8.5
AUG 08...	1345	7.2	280	8.2	23.5	2.6	6.8	120	30	9.8	13
SEP 12...	1345	9.3	274	8.2	18.5	13	8.0	110	27	9.5	13

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
JUL 11...	0.4	1.1	80	20	1.0	<0.1	13	131	121	0.18	22.0
AUG 08...	0.5	1.5	117	27	1.6	0.1	7.2	169	161	0.23	3.29
SEP 12...	0.5	2.3	113	25	1.8	0.2	5.6	146	152	0.20	3.67

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)
JUL 11...	<0.01	<0.05	<0.02	0.2	0.2	0.01	<0.01	<0.01	5.6	5.1
AUG 08...	<0.01	<0.05	<0.02	0.3	<0.2	0.02	<0.01	<0.01	4.8	3.8
SEP 12...	<0.01	<0.05	<0.02	0.3	0.2	0.02	<0.01	<0.01	--	--

DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
AUG 08...	110	<1	<1	<100	52	<10	20	<1	<1	<1	<1

09246200 ELKHEAD CREEK ABOVE LONG GULCH, NEAR HAYDEN, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
JUL 11...	--	--	--	--	93	--	--	--	--	11	--
AUG 08...	<1	2	2	190	32	<1	<1	<10	10	7	<0.1
SEP 12...	--	--	--	--	16	--	--	--	--	10	--

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
AUG 08...	<0.1	1	2	<1	<1	<2	<1	270	<10	3

MISCELLANEOUS FIELD MEASUREMENTS WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
JUN 05...	1055	1070	127	8.0	AUG 25...	0940	7.1	318	19.0
14...	0900	684	103	10.0					
JUL 06...	1310	113	188	18.5	SEP 20...	1200	3.9	398	14.5
26...	1510	21	--	23.0	26...	1410	2.7	372	12.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
JUL 11...	1415	62	15	2.5	AUG 08...	1345	7.2	8	0.16

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible][illegible]

09246400 ELKHEAD CREEK BELOW MAYNARD GULCH, NEAR CRAIG, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July to September 1995.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: August to September 1995.

SPECIFIC CONDUCTANCE: August to September 1995.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--No previous water-quality at this site.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Not determined.

WATER TEMPERATURE: Not determined.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Not determined

WATER TEMPERATURE: Not determined.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
JUL 13...	0925	53	170	7.4	18.5	8.8	8.2	65	17	5.4	6.7
AUG 10...	0900	5.9	214	7.8	20.0	7.8	6.2	84	22	7.0	10
SEP 14...	0900	2.2	232	8.2	17.0	8.8	7.2	93	24	8.1	12

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
JUL 13...	0.4	0.9	61	17	1.1	<0.1	12	110	97	0.15	15.7
AUG 10...	0.5	1.2	80	23	1.6	0.1	11	136	124	0.18	2.17
SEP 14...	0.5	1.4	91	27	1.9	0.2	8.8	148	138	0.20	0.88

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)
JUL 13...	<0.01	<0.05	0.02	0.2	0.2	<0.01	<0.01	<0.01	--	--
AUG 10...	<0.01	<0.05	<0.02	0.4	0.2	0.03	<0.01	<0.01	6.8	5.3
SEP 14...	<0.01	0.05	<0.02	0.3	0.2	0.02	<0.01	<0.01	--	--

DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
AUG 10...	260	<1	<1	<100	41	<10	<10	<1	<1	<1	<1

09246400 ELKHEAD CREEK BELOW MAYNARD GULCH, NEAR CRAIG, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
JUL 13...	--	--	--	--	110	--	--	--	--	4	--
AUG 10...	<1	3	3	450	97	<1	<1	<10	20	11	<0.10
SEP 14...	--	--	--	--	56	--	--	--	--	6	--

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL SOLVED (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
AUG 10...	<0.1	<1	2	2	<1	<2	<1	200	<10	<3

MISCELLANEOUS FIELD MEASUREMENTS WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
JUN 05...	0850	1170	156	10.5	AUG 25...	1125	3.5	240	22.0
14...	1310	682	138	15.5	SEP 20	1015	2.8	248	15.5
JUL 06...	1425	127	215	21.0					
26...	1100	22	--	19.0					

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
JUL 13...	0925	53	12	1.7	AUG 10...	0900	5.9	13	0.21

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]

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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1975 to September 1978 (discharge measurements only). October 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,100 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 18 to Dec. 10, Dec. 12 to Feb. 28, Mar 19 to Apr 5, and Apr 30 to May 4. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	158	187	167	201	323	485	2900	6980	5580	1070	224
2	83	133	191	159	197	358	450	3150	7370	5130	972	239
3	106	161	186	157	192	292	461	3940	7820	5210	905	215
4	121	184	189	160	195	292	555	4200	8130	5730	815	210
5	140	185	185	158	194	296	592	2700	9130	5580	784	203
6	146	167	175	161	197	275	847	2760	10200	4870	762	200
7	172	176	169	160	202	251	1020	2500	10800	5120	705	185
8	199	172	167	157	201	257	1140	2640	10200	5520	677	208
9	186	174	170	166	210	220	1250	3940	9520	5340	650	242
10	184	200	167	169	209	229	1080	3080	8600	5520	621	298
11	168	193	164	171	212	311	895	3020	6650	5620	603	248
12	171	196	170	164	219	362	812	4660	6660	5410	651	232
13	167	196	175	171	222	400	786	7590	7860	4990	683	222
14	176	214	160	177	219	380	892	7470	9010	5020	584	206
15	177	171	155	176	225	433	1070	6350	9870	4270	528	201
16	162	132	151	182	223	475	960	5500	10800	3610	491	191
17	176	146	149	179	230	597	924	5720	10900	3230	452	183
18	180	140	152	182	224	648	1130	5740	11300	2950	433	199
19	174	137	148	184	226	696	1070	5590	9720	2730	408	214
20	196	141	146	188	230	1080	1050	6210	8640	2880	379	255
21	209	140	145	185	240	1220	1080	6670	8940	2680	363	286
22	190	143	147	188	248	944	1040	7290	8930	2460	362	337
23	189	149	148	189	240	1180	961	7610	8720	2210	350	321
24	191	155	140	191	248	1070	930	7100	7850	2010	339	294
25	167	161	143	194	262	905	913	6480	6920	1830	352	294
26	170	160	151	189	286	838	967	6140	6380	1740	394	286
27	170	163	154	193	295	675	1060	5560	6440	1630	332	268
28	166	169	159	195	315	536	1020	5110	6670	1500	301	259
29	181	171	162	192	---	535	1080	4690	6830	1360	304	313
30	179	168	165	195	---	528	1410	5660	6280	1260	307	480
31	175	---	169	198	---	499	---	6660	---	1190	264	---
TOTAL	5148	4955	5039	5497	6362	17105	27930	158630	254120	114180	16841	7513
MEAN	166	165	163	177	227	552	931	5117	8471	3683	543	250
MAX	209	214	191	198	315	1220	1410	7610	11300	5730	1070	480
MIN	77	132	140	157	192	220	450	2500	6280	1190	264	183
AC-FT	10210	9830	9990	10900	12620	33930	55400	314600	504000	226500	33400	14900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1995, BY WATER YEAR (WY)

MEAN	301	294	231	214	290	732	2190	4514	3942	1055	254	192
MAX	607	505	407	336	841	1718	4835	7524	8471	3683	543	384
(WY)	1987	1985	1985	1985	1986	1986	1985	1985	1995	1995	1995	1986
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 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1985 - 1995
ANNUAL TOTAL	281660	623320	
ANNUAL MEAN	772	1708	1186
HIGHEST ANNUAL MEAN			1910
LOWEST ANNUAL MEAN			734
HIGHEST DAILY MEAN	4910	May 17	11300
LOWEST DAILY MEAN	a10	Aug 29	77
ANNUAL SEVEN-DAY MINIMUM	16	Aug 26	121
INSTANTANEOUS PEAK FLOW			11800
INSTANTANEOUS PEAK STAGE		9.46	Jun 18
ANNUAL RUNOFF (AC-FT)	558700	1236000	859100
10 PERCENT EXCEEDS	3020	6400	3830
50 PERCENT EXCEEDS	217	295	335
90 PERCENT EXCEEDS	50	160	145

a-Also occurred Aug 30.

b-Maximum gage height, 9.68 ft, May 6, 1985

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 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
DEC 13...	1100	174	431	8.1	0.0	11.0	K7	K6	160	41	14	27
MAR 10...	1230	226	505	8.4	1.0	11.6	100	110	170	42	17	39
JUN 06...	1200	9790	152	7.6	11.0	9.9	590	870	55	14	4.9	7.0
AUG 28...	1630	306	269	8.7	24.0	8.2	K15	K9	100	26	9.5	15

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
DEC 13...	0.9	2.3	133	66	12	0.3	6.3	258	249	0.35	121
MAR 10...	1	2.5	126	100	14	0.3	6.0	318	296	0.43	194
JUN 06...	0.4	1.2	44	23	1.5	<0.1	9.1	98	87	0.13	2590
AUG 28...	0.6	1.9	86	38	5.1	0.2	4.1	144	151	0.20	119

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHOPHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHOPHOS- PHORUS DIS- SOLVED (MG/L AS P)
DEC 13...	0.01	0.12	<0.02	<0.20	0.02	<0.01

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC 13...	<1	<1	150	55	<1	20	12	<0.1	<1	<1	<10
MAR 10...	<1	1	350	66	<1	90	70	<0.1	3	<1	<10
JUN 06...	<1	3	4700	140	<1	130	20	<0.1	<1	<0.2	20
AUG 28...	<1	1	130	61	<1	30	11	<0.1	<1	<0.2	<10

K-Based on non-ideal colony count.

09247600 YAMPA RIVER BELOW CRAIG, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT					SEP				
03...	1140	101	476	11.5	05...	0945	206	308	19.0
FEB					07...	1200	152	316	19.5
17...	1415	230	433	0.0	11...	1125	253	293	16.0
MAY					13...	1135	211	316	17.0
04...	1050	4090	332	7.0	15...	1134	198	331	16.0
JUN					19...	0940	206	389	15.0
16...	1445	10900	145	13.0					

09249750 WILLIAMS FORK RIVER AT MOUTH, NEAR HAMILTON, CO

LOCATION.--Lat 40°26'14", Long 107°38'50", in SE¹/4NW¹/4 sec.31, T.6 N., R.91 W., Moffat County, Hydrologic Unit 14050001, on left bank at coal mine service road crossing, 2,300 ft upstream from confluence with Yampa River, 6.1 mi north-northeast of Hamilton, and 8 mi south-southwest of Craig.

DRAINAGE AREA.--419 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1984 to current year. Sediment data available June 1975 to September 1980, and April 1987 to September 1991.

GAGE.--Water stage recorder. Elevation of gage is 6,170 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 18-22, 25-28, Nov. 30 to Jan. 21. Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	27	33	47	37	53	48	349	1650	782	138	58
2	29	37	34	46	41	45	51	270	1670	786	125	56
3	37	40	39	48	41	49	53	335	1800	779	111	54
4	39	40	33	45	41	54	54	341	1750	893	104	54
5	36	38	37	44	44	48	61	256	1930	743	100	53
6	43	38	36	45	37	51	78	280	2150	690	99	52
7	52	45	37	44	37	42	97	293	1820	671	97	51
8	48	46	34	42	37	37	115	300	1660	687	88	53
9	42	46	28	44	37	46	138	384	1480	646	88	65
10	40	39	31	43	38	52	124	377	1230	668	88	57
11	44	39	35	42	38	56	95	419	1070	656	87	55
12	44	42	36	41	36	76	84	513	1270	618	90	53
13	43	48	34	40	36	74	82	768	1550	557	91	51
14	41	42	37	42	38	66	99	609	1710	630	84	50
15	41	19	38	40	35	67	124	605	1820	578	84	47
16	43	25	36	42	34	71	111	850	1890	454	80	45
17	42	29	38	45	32	76	104	1030	1840	399	76	44
18	40	27	39	44	36	80	126	1030	1510	366	75	47
19	44	30	40	41	41	88	114	1020	1240	367	73	58
20	40	29	38	40	41	107	120	1200	1290	354	89	63
21	36	31	40	39	59	85	114	1410	1300	335	85	57
22	36	28	41	35	43	85	106	1390	1270	303	91	52
23	36	27	43	31	48	87	99	1650	1150	284	101	51
24	38	28	44	30	47	74	101	1330	1020	258	95	50
25	36	30	42	32	50	74	97	1210	941	233	90	49
26	35	33	43	35	55	62	102	1150	904	213	84	48
27	34	31	42	36	56	63	115	1110	908	191	78	51
28	38	32	44	36	55	59	120	930	904	176	75	51
29	36	34	43	36	---	56	137	844	939	163	71	73
30	34	31	45	36	---	55	166	1010	827	149	65	157
31	33	---	46	33	---	48	---	1330	---	145	61	---
TOTAL	1202	1031	1186	1244	1170	1986	3035	24593	42493	14774	2763	1705
MEAN	38.8	34.4	38.3	40.1	41.8	64.1	101	793	1416	477	89.1	56.8
MAX	52	48	46	48	59	107	166	1650	2150	893	138	157
MIN	22	19	28	30	32	37	48	256	827	145	61	44
AC-FT	2380	2040	2350	2470	2320	3940	6020	48780	84280	29300	5480	3380

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1995, BY WATER YEAR (WY)

	MEAN	64.4	62.1	56.4	54.3	58.1	94.2	308	991	675	180	72.5	51.4
MAX	140	117	106	79.5	108	165	680	2228	1720	494	220	113	
(WY)	1985	1985	1985	1985	1986	1986	1985	1984	1984	1984	1984	1984	
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1984 - 1995

ANNUAL TOTAL	37462	97182		
ANNUAL MEAN	103	266		
HIGHEST ANNUAL MEAN			202	
LOWEST ANNUAL MEAN			357	1985
HIGHEST DAILY MEAN	803	May 12	2150	Jun 6
LOWEST DAILY MEAN	13	Sep 13	19	Nov 15
ANNUAL SEVEN-DAY MINIMUM	15	Sep 9	27	Nov 15
INSTANTANEOUS PEAK FLOW			2540	Jun 6
INSTANTANEOUS PEAK STAGE			7.45	Jun 6
ANNUAL RUNOFF (AC-FT)	74310	192800		146500
10 PERCENT EXCEEDS	268	1010		646
50 PERCENT EXCEEDS	47	55		73
90 PERCENT EXCEEDS	22	35		36

09249750 WILLIAMS FORK AT MOUTH, NEAR HAMILTON, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1975 to September 1980, December 1985 to September 1992, October 1993 to current year. 1994 water year data was not published in the 1994 report, but is published below.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML)
DEC 20...	1500	46	590	8.0	0.0	11.4	K2	K3
APR 22...	1500	366	336	8.0	13.0	8.0	930	1100
JUN 01...	1500	500	195	8.0	15.0	9.1	440	150
AUG 31...	1415	28	632	8.2	21.0	7.9	K10	K5

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)
AUG 31...	<0.01	<0.05	0.03	0.97	1.0	0.06	<0.01

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, DIS-SOLVED (UG/L AS ZN)
DEC 20...	<1	1	140	<1	20	10	<0.1	<1	<0.2	<10
APR 22...	<1	<1	1500	<1	60	20	<0.1	1	<0.2	<10
JUN 01...	<1	3	8400	<1	180	<10	<0.1	<1	<0.2	<10
AUG 31...	<1	3	240	<1	20	10	<0.1	<1	<0.2	<10

K-Based on non-ideal colony count.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)
OCT 13...	1059	72	484	9.0	JUL 14...	1055	28	775	18.5
DEC 15...	1115	44	596	0.0	DEC 26...	1059	28	735	20.0
FEB 15...	1536	49	603	0.0	AUG 04...	0945	30	677	20.0
MAR 23...	0922	97	665	4.5	AUG 11...	1416	34	673	25.0
APR 01...	1629	74	662	8.5	AUG 22...	1049	34	586	17.0
MAY 21...	0915	555	215	9.5	AUG 30...	1209	29	632	19.5
					SEP 09...	1247	15	673	10.5

09249750 WILLIAMS FORK AT MOUTH, NEAR HAMILTON, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1975 to September 1980, December 1985 to September 1992,
October 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	E. COLI WATER TOTAL UREASE (COL / 100 ML)	CADMIUM DIS- SOLVED (UG/L AS CD)
DEC 13...	1230	40	541	7.4	0.0	11.5	K15	K6	<1
MAR 10...	1030	51	580	8.4	2.0	11.1	59	96	<1
JUN 05...	1030	2100	226	8.0	7.5	10.5	410	200	<1
AUG 28...	1200	76	356	8.4	20.5	8.4	72	130	<1

DATE	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC 13...	<1	--	<1	--	10	<0.1	<1	<1	20
MAR 10...	1	400	<1	40	30	0.1	1	<0.2	<10
JUN 05...	2	18000	<1	370	<10	<0.1	<1	<0.2	<10
AUG 28...	2	260	<1	20	<10	<0.1	<1	<0.2	<10

K-Based on non-ideal colony count.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 03...	1003	38	609	10.0	SEP 05...	1230	51	369	18.5
DEC 02...	1042	33	585	0.5	07...	0945	51	458	16.0
FEB 10...	1336	39	548	0.0	11...	1335	52	452	17.0
MAY 18...	1451	948	305	8.5	13...	0945	51	422	13.0
					19...	1133	63	452	14.0

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 mi², 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.--Estimated daily discharges: Nov. 19-22, and Nov. 25 to Feb. 24. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	185	217	194	231	442	483	3300	9110	6910	1570	261
2	45	173	220	189	227	457	457	3940	9400	6500	1390	219
3	58	165	216	186	222	408	472	4640	9880	6080	1260	219
4	72	170	219	190	225	396	558	5490	10300	6700	1160	208
5	87	189	215	189	222	405	603	3730	10700	6920	1040	244
6	120	195	210	193	219	403	730	3090	11700	6160	975	248
7	130	189	205	190	218	389	991	3240	12600	5860	939	198
8	149	194	197	187	220	334	1190	3010	12400	6230	841	176
9	174	211	204	195	215	337	1390	4040	11700	6580	791	212
10	174	206	192	198	211	344	1450	4390	11200	6320	760	235
11	162	216	195	200	209	371	1240	3710	9530	6600	731	296
12	153	224	190	197	207	457	1040	4150	8130	6590	679	269
13	153	227	187	203	204	565	952	7280	8790	6280	686	219
14	153	237	182	210	201	603	910	6270	10300	5990	727	218
15	155	215	180	209	200	563	1090	5010	11300	6420	612	189
16	158	194	175	211	212	602	1250	5460	12100	5310	539	191
17	163	181	171	209	226	636	1120	7240	12700	4690	515	176
18	148	166	173	212	240	798	1140	6990	12900	4310	470	153
19	184	173	165	215	248	897	1340	6890	12300	4010	442	171
20	162	176	160	217	259	1210	1270	6870	10500	3800	429	198
21	180	179	162	215	273	1300	1270	7970	10200	3930	431	241
22	187	185	168	217	284	1000	1310	8360	10200	3640	420	282
23	181	191	177	219	299	1240	1260	9230	10000	3320	403	312
24	176	228	165	220	310	1120	1180	9440	9420	3020	412	317
25	181	209	175	221	395	974	1110	8370	8420	2730	410	297
26	173	210	190	219	396	892	1130	7940	7630	2460	396	297
27	154	208	194	223	431	713	1190	7490	7250	2320	423	284
28	159	212	199	225	430	622	1290	7080	7500	2160	379	426
29	163	215	204	222	---	550	1280	6390	7750	1980	316	325
30	166	219	200	225	---	545	1480	6170	7720	1790	349	415
31	178	---	202	228	---	514	---	7750	---	1660	303	---
TOTAL	4533	5942	5909	6428	7234	20087	32176	184930	303630	147270	20798	7496
MEAN	146	198	191	207	258	648	1073	5965	10120	4751	671	250
MAX	187	237	220	228	431	1300	1480	9440	12900	6920	1570	426
MIN	35	165	160	186	200	334	457	3010	7250	1660	303	153
AC-FT	8990	11790	11720	12750	14350	39840	63820	366800	602200	292100	41250	14870

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1995, BY WATER YEAR (WY)

	MEAN	343	347	294	272	330	691	2567	6200	5521	1416	385	238
MAX	1001	729	624	610	1071	2063	6496	14000	12810	5819	1052	972	
(WY)	1962	1987	1948	1948	1986	1986	1962	1984	1917	1957	1957	1929	
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1916 - 1995

ANNUAL TOTAL	309963.9	746433	
ANNUAL MEAN	849	2045	1552
HIGHEST ANNUAL MEAN			3025
LOWEST ANNUAL MEAN			477
HIGHEST DAILY MEAN	5650	May 18	12900
LOWEST DAILY MEAN	7.9	Sep 12	35
ANNUAL SEVEN-DAY MINIMUM	14	Aug 29	78
INSTANTANEOUS PEAK FLOW			13300
INSTANTANEOUS PEAK STAGE			9.13
ANNUAL RUNOFF (AC-FT)	614800	1481000	1124000
10 PERCENT EXCEEDS	3340	7490	5280
50 PERCENT EXCEEDS	250	379	400
90 PERCENT EXCEEDS	35	174	175

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 TEMPERATURES: 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:--Unpublished maximum and minimum specific conductance data for period of daily record available in district office. Temperature record rated good. Specific conductance record is good. Periods of missing record are due to sensor fouling or instrument malfunction.

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 December 1975 to February 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, 747 microsiemens Oct. 1-2; minimum recorded, 100 microsiemens June 23-25, June 28 to July 1 and July 9-11, but may have been lower during period of missing data July 12-14.

WATER TEMPERATURES: Maximum recorded, 24.1°C September 2; minimum recorded, 0.0°C, during the winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO
OCT											
03...	1530	60	712	--	13.5	9.4	240	51	27	66	2
NOV											
25...	1300	209	529	--	1.5	10.9	190	45	20	40	1
DEC											
20...	1130	151	558	8.1	0.0	11.1	200	47	21	39	1
JAN											
31...	1130	228	584	8.2	0.0	11.4	200	44	21	44	1
FEB											
15...	1500	200	619	8.7	0.0	11.4	210	45	24	50	1
MAR											
20...	1500	1220	615	8.7	9.0	10.9	190	41	22	41	1
APR											
06...	1200	765	575	8.8	10.5	10.4	200	42	23	39	1
MAY											
01...	1400	3730	534	8.0	8.0	9.7	190	41	22	31	1
JUN											
27...	1415	7170	121	7.7	13.5	9.9	47	12	4.2	4.9	0.3
JUL											
17...	1500	4390	134	7.4	18.0	8.8	51	13	4.5	5.7	0.3
AUG											
30...	1630	341	362	8.2	23.0	8.3	140	32	14	23	0.9
SEP											
14...	1115	234	416	8.7	18.5	9.3	140	32	14	29	1

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SELE- NIUM DIS- SOLVED (UG/L AS SE)
OCT											
03...	3.6	195	140	25	0.3	4.0	--	434	0.59	70.3	<1
NOV											
25...	2.5	163	96	14	0.3	8.6	334	324	0.45	188	--
DEC											
20...	2.6	163	110	15	0.2	5.2	344	338	0.47	140	--
JAN											
31...	2.6	171	110	15	0.3	7.0	360	346	0.49	222	--
FEB											
15...	2.6	163	130	18	0.3	5.1	385	373	0.52	208	--
MAR											
20...	2.1	127	170	11	0.2	4.0	414	368	0.56	1360	7
APR											
06...	2.3	126	150	11	0.2	0.4	371	344	0.50	766	--
MA											
01...	2.2	118	140	8.5	0.2	7.6	347	323	0.47	3490	--
JUN											
27...	0.70	41	16	1.3	<0.1	7.6	75	71	0.10	1450	--
JUL											
17...	0.80	46	18	1.7	0.1	7.2	89	79	0.12	1050	--
AUG											
30...	1.9	112	63	9.4	0.2	3.2	207	214	0.28	191	2
SEP											
14...	2.1	125	66	12	0.2	0.4	247	231	0.34	156	--

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
MAY 10...	1520	3880	526	10.0

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG.C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	743	490	524	---	---	---	---	532	369	111	192	372
2	740	---	519	---	---	---	---	542	346	118	197	381
3	709	---	526	---	---	---	---	554	327	122	207	386
4	699	---	527	---	---	---	---	509	319	123	217	391
5	679	511	531	---	---	---	---	502	316	126	229	394
6	635	512	---	---	---	---	---	494	---	132	241	392
7	607	509	---	---	---	---	540	475	---	128	249	394
8	609	493	---	---	---	---	497	491	---	116	253	402
9	560	499	---	553	---	---	456	580	---	109	260	411
10	538	506	---	539	---	---	437	527	144	109	263	419
11	520	513	---	524	---	---	444	486	156	106	269	415
12	496	506	---	503	---	---	456	473	162	---	273	416
13	486	501	---	533	---	---	464	487	148	---	274	407
14	479	479	586	544	---	---	462	477	132	---	278	400
15	487	489	---	542	---	---	451	457	125	113	277	406
16	486	498	---	571	---	---	431	410	121	126	280	408
17	479	---	---	589	---	---	426	359	119	128	290	420
18	475	---	554	593	---	---	429	361	124	128	308	432
19	481	---	549	580	---	---	438	351	133	134	326	430
20	502	---	545	622	---	---	455	344	132	144	340	429
21	478	---	544	616	---	---	472	328	120	142	337	437
22	479	---	540	614	---	---	488	318	115	142	348	463
23	469	---	544	---	---	---	492	300	111	149	353	454
24	453	---	541	---	---	---	482	297	109	153	356	445
25	449	---	532	---	---	---	469	306	113	159	358	426
26	451	---	525	---	---	---	459	313	116	160	364	424
27	461	---	---	---	---	---	490	325	115	168	376	421
28	479	---	---	---	---	---	489	354	110	168	380	424
29	500	---	---	---	---	---	522	359	109	172	377	426
30	495	---	---	---	---	---	516	352	105	179	372	422
31	492	---	---	---	---	---	---	371	---	183	362	---
MEAN	536	---	---	---	---	---	---	420	---	---	297	415
MAX	743	---	---	---	---	---	---	580	---	---	380	463
MIN	449	---	---	---	---	---	---	297	---	---	192	372

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	13.8	9.8	5.8	3.3	---	---	---	---	---	---	---	---
2	14.9	10.1	---	---	---	---	---	---	---	---	---	---
3	14.2	10.4	---	---	---	---	---	---	---	---	---	---
4	14.8	10.1	---	---	---	---	---	---	---	---	---	---
5	12.1	9.9	---	---	---	---	---	---	---	---	---	---
6	10.1	8.8	---	---	---	---	---	---	---	---	---	---
7	11.1	8.2	---	---	---	---	---	---	---	---	---	---
8	12.6	7.9	---	---	---	---	---	---	---	---	---	---
9	13.0	8.1	---	---	---	---	---	---	---	---	---	---
10	12.9	8.8	---	---	---	---	---	---	---	---	---	---
11	13.5	9.1	---	---	---	---	---	---	---	---	---	---
12	14.0	9.5	---	---	---	---	---	---	---	---	---	---
13	13.0	9.5	---	---	---	---	---	---	---	---	---	---
14	11.9	9.2	---	---	---	---	---	---	---	---	---	---
15	11.3	9.5	---	---	---	---	---	---	---	---	---	---
16	11.9	8.6	---	---	---	---	---	---	---	---	---	---
17	8.6	6.7	---	---	---	---	---	---	---	---	---	---
18	8.2	6.2	---	---	---	---	---	---	---	---	---	---
19	9.4	6.7	---	---	---	---	---	---	---	---	---	---
20	10.2	6.6	---	---	---	---	---	---	---	---	---	---
21	10.5	6.7	---	---	---	---	---	---	---	---	---	---
22	10.8	7.1	---	---	---	---	---	---	---	---	---	---
23	10.0	6.8	---	---	---	---	---	---	---	---	---	---
24	9.8	6.7	---	---	---	---	---	---	---	---	---	---
25	9.2	6.2	---	---	---	---	---	---	---	---	---	---
26	9.3	5.7	---	---	---	---	---	---	---	---	---	---
27	8.4	6.5	---	---	---	---	---	---	---	---	---	---
28	9.5	5.5	---	---	---	---	---	---	---	---	---	---
29	9.4	6.0	---	---	---	---	---	---	---	---	---	---
30	8.1	4.3	---	---	---	---	---	---	---	---	---	---
31	6.3	3.1	---	---	---	---	---	---	---	---	---	---
MONTH	14.9	3.1	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	9.0	6.8	11.4	9.2	13.1	11.9	20.5	17.1	23.1	18.7
2	---	---	7.7	6.8	11.3	10.7	13.9	12.3	21.2	17.5	24.1	19.3
3	---	---	8.0	6.7	11.3	10.2	13.6	11.8	21.4	18.0	24.0	19.5
4	---	---	8.5	6.7	11.1	10.3	11.8	10.7	21.2	18.5	22.4	18.9
5	---	---	8.9	7.7	11.7	10.5	13.2	10.5	21.8	18.2	21.0	18.7
6	---	---	10.2	7.6	12.3	11.1	15.5	12.4	21.4	18.1	21.7	17.0
7	12.2	9.5	9.2	7.9	11.4	10.3	16.4	14.5	22.0	18.5	21.5	17.4
8	11.4	8.3	8.5	7.2	10.7	10.2	16.3	14.9	21.7	19.1	20.7	16.8
9	8.3	6.4	8.1	7.0	10.4	9.5	15.9	14.7	22.2	18.1	21.1	16.4
10	6.4	4.7	10.1	6.9	10.0	8.7	16.9	15.0	21.9	18.8	19.5	16.0
11	7.1	4.1	10.9	9.3	11.8	9.1	17.2	15.6	22.5	19.8	18.9	15.8
12	9.8	5.2	10.0	7.9	13.7	10.9	16.8	15.6	21.0	18.6	19.3	14.6
13	10.8	7.9	8.9	7.4	13.9	12.9	16.6	15.2	21.9	18.6	20.3	15.0
14	10.2	8.3	11.0	8.3	13.4	12.3	15.4	14.5	22.4	19.0	20.6	16.6
15	8.7	6.8	13.4	10.5	13.4	12.5	15.4	13.4	20.7	18.0	20.9	15.5
16	9.7	6.3	13.4	11.1	12.9	11.7	17.3	14.2	22.0	18.0	20.7	15.3
17	9.0	7.7	11.1	9.1	12.0	10.1	18.2	16.1	21.7	18.7	20.1	15.7
18	9.0	6.6	10.9	9.0	10.1	8.8	17.9	16.4	22.7	19.2	18.1	15.4
19	9.9	7.8	11.8	10.0	12.7	10.0	17.5	15.9	22.1	18.7	18.9	14.2
20	8.7	7.3	12.4	11.2	13.4	11.5	18.1	15.4	22.2	18.4	16.9	13.4
21	9.1	6.9	11.5	10.2	13.5	12.0	18.2	16.1	21.8	19.5	14.5	11.3
22	9.6	6.7	11.6	10.0	13.6	12.0	17.9	15.6	22.2	19.0	13.9	10.0
23	9.2	7.6	10.4	9.2	13.6	11.9	18.2	15.5	23.8	19.9	13.5	10.5
24	10.3	6.7	9.2	8.1	14.1	12.0	19.1	16.2	23.3	20.5	13.7	10.3
25	9.2	7.7	9.3	7.9	14.0	11.7	19.8	16.3	23.7	20.2	13.6	9.6
26	10.0	5.8	9.0	8.5	14.4	12.1	19.8	17.1	22.7	19.2	13.2	10.2
27	10.8	7.4	9.1	8.3	14.9	13.0	19.9	16.6	23.5	20.0	15.0	11.0
28	10.1	8.5	9.2	8.1	14.6	13.3	20.4	17.4	23.4	20.3	13.6	11.4
29	10.2	7.8	10.3	8.7	14.4	12.9	21.3	18.5	23.7	20.1	12.9	10.8
30	9.8	8.3	10.8	9.7	13.7	12.0	21.5	18.8	23.0	19.5	11.5	10.3
31	---	---	10.6	9.2	---	---	20.3	16.8	23.1	18.9	---	---
MONTH	---	---	13.4	6.7	14.9	8.7	21.5	10.5	23.8	17.1	24.1	9.6

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO

LOCATION.--Lat 40°59'58", long 107°08'34", in SW¹/4NW¹/4 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 mi².

PERIOD OF RECORD.--October 1942 to September 1947, October 1950 to current year.

REVISED RECORDS.--WSP 1733: 1960.

GAGE.--Water-stage recorder . Datum of gage is 6,831.00 ft above sea level.

REMARKS.--Estimated daily discharges: Nov. 1 to Mar. 31 and June 21 to July 18. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	23	24	25	32	40	86	187	1880	390	157	35
2	23	23	24	25	32	40	99	328	1940	400	100	34
3	28	23	24	26	31	41	102	365	2050	400	93	37
4	28	23	24	26	30	41	112	290	2230	400	93	36
5	26	23	24	27	31	40	128	339	2800	410	91	34
6	31	24	24	27	31	44	156	348	2760	400	84	34
7	33	24	24	27	31	41	188	328	2340	400	80	34
8	26	24	24	27	30	40	212	361	2230	390	77	49
9	24	24	24	28	31	41	179	381	2510	380	72	56
10	24	23	25	29	28	41	144	450	1780	390	68	44
11	23	23	25	29	28	45	130	569	1610	380	74	43
12	23	24	25	28	31	46	124	812	1850	380	80	41
13	21	24	25	27	33	46	154	641	2190	380	78	37
14	20	23	25	27	32	46	193	677	2350	390	49	34
15	20	23	25	27	30	46	155	960	1670	400	44	32
16	21	24	25	27	35	47	145	1190	1520	395	42	30
17	21	24	25	26	35	47	176	1140	1270	400	41	29
18	22	24	25	27	36	46	156	1090	911	393	38	30
19	27	24	25	28	36	48	146	1270	756	436	36	67
20	26	23	25	28	38	48	140	1400	521	435	36	53
21	26	23	26	26	38	48	131	1450	500	381	38	47
22	26	23	26	27	41	50	130	1650	450	361	39	41
23	25	22	27	29	43	50	125	1690	425	321	38	40
24	24	23	28	29	44	50	123	1400	410	274	39	40
25	23	23	28	29	43	55	125	1350	400	248	56	39
26	23	24	28	29	42	45	122	1270	390	230	47	39
27	25	24	27	29	41	50	119	1340	380	209	42	39
28	23	24	26	29	40	55	141	1260	370	194	40	38
29	24	24	26	29	---	60	138	1310	380	182	41	69
30	25	24	26	29	---	70	209	1480	380	172	39	90
31	22	---	25	31	---	80	---	1740	---	169	37	---
TOTAL	752	704	784	857	973	1487	4288	29066	41253	10690	1889	1271
MEAN	24.3	23.5	25.3	27.6	34.7	48.0	143	938	1375	345	60.9	42.4
MAX	33	24	28	31	44	80	212	1740	2800	436	157	90
MIN	19	22	24	25	28	40	86	187	370	169	36	29
AC-FT	1490	1400	1560	1700	1930	2950	8510	57650	81830	21200	3750	2520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1995, BY WATER YEAR (WY)

	MEAN	37.6	35.2	31.5	31.2	32.2	49.1	259	1069	945	162	38.6	28.3
MAX	91.8	77.8	59.4	74.5	59.5	139	842	2122	2231	519	97.3	79.9	
(WY)	1962	1962	1983	1983	1962	1989	1974	1984	1983	1983	1945	1984	
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1944 - 1995

ANNUAL TOTAL	48179	94014										
ANNUAL MEAN	132	258										
HIGHEST ANNUAL MEAN										227		
LOWEST ANNUAL MEAN										86.6		1984
HIGHEST DAILY MEAN	1190	May 12				2800	Jun 5		3960	May 24		1984
LOWEST DAILY MEAN	13	Aug 27				19	Oct 1		4.2	Sep 9		1988
ANNUAL SEVEN-DAY MINIMUM	14	Sep 21				21	Oct 12		6.2	Sep 4		1988
INSTANTANEOUS PEAK FLOW						3670	Jun 5		4780	May 23		1984
INSTANTANEOUS PEAK STAGE						7.86	Jun 5		a8.78	May 23		1994
ANNUAL RUNOFF (AC-FT)	95560	186500							164500			
10 PERCENT EXCEEDS	502	778							815			
50 PERCENT EXCEEDS	29	41							40			
90 PERCENT EXCEEDS	16	24							20			

a-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 SW¹/4NE¹/4 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 mi².

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. 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.--Estimated daily discharges: Oct. 1 to May 3, and June 13-15. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	18	16	15	14	23	26	140	811	235	24	6.9
2	8.9	17	16	14	15	20	31	137	801	236	20	7.1
3	10	17	16	14	16	27	33	200	788	272	18	7.8
4	11	16	16	14	17	26	42	240	771	308	18	7.0
5	12	17	16	14	17	27	59	217	1020	236	16	6.6
6	13	20	17	13	17	26	73	243	1090	219	14	6.2
7	15	19	17	14	18	22	89	206	900	223	14	6.4
8	13	19	15	14	17	28	96	199	728	214	13	11
9	12	18	14	15	18	27	81	215	657	193	11	15
10	12	16	16	15	18	28	71	257	486	193	11	15
11	12	17	17	15	16	23	58	328	518	188	14	15
12	13	17	16	16	17	31	65	470	713	173	17	14
13	13	18	16	16	17	20	70	452	775	161	16	13
14	14	15	17	16	18	21	97	368	835	191	12	11
15	15	11	17	16	16	27	81	438	890	142	13	9.9
16	16	19	16	16	17	27	80	657	956	116	10	9.3
17	16	18	16	16	18	28	87	661	876	101	8.7	8.7
18	18	17	16	16	18	29	81	621	803	90	8.4	9.3
19	19	18	16	17	17	30	79	606	587	99	8.4	15
20	17	14	16	17	19	28	75	698	617	113	9.1	17
21	17	18	16	16	18	29	70	754	602	88	9.9	17
22	15	16	17	15	18	30	65	865	557	79	10	16
23	13	14	17	15	18	28	65	949	473	69	11	16
24	13	16	17	15	18	27	63	802	416	61	10	16
25	13	16	17	15	19	27	63	601	380	54	29	15
26	14	16	17	14	20	27	65	657	351	46	21	15
27	16	16	16	14	22	27	62	622	361	39	13	15
28	15	16	15	13	22	24	67	532	401	37	12	15
29	16	16	15	13	---	27	78	572	355	34	12	30
30	15	16	16	13	---	25	91	816	286	31	10	54
31	12	---	15	13	---	29	---	799	---	27	8.7	---
TOTAL	427.2	501	500	459	495	818	2063	15322	19804	4268	422.2	420.2
MEAN	13.8	16.7	16.1	14.8	17.7	26.4	68.8	494	660	138	13.6	14.0
MAX	19	20	17	17	22	31	97	949	1090	308	29	54
MIN	8.3	11	14	13	14	20	26	137	286	27	8.4	6.2
AC-FT	847	994	992	910	982	1620	4090	30390	39280	8470	837	833

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1995, BY WATER YEAR (WY)

	MEAN	19.7	18.9	17.2	16.9	18.4	27.6	116	371	253	39.0	9.85	11.4
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1932 - 1995

ANNUAL TOTAL	17772.63	45499.6	
ANNUAL MEAN	48.7	125	76.8
HIGHEST ANNUAL MEAN			157
LOWEST ANNUAL MEAN			20.5
HIGHEST DAILY MEAN	452	Apr 24	1500
LOWEST DAILY MEAN	.33	Aug 8	a.00
ANNUAL SEVEN-DAY MINIMUM	.71	Jul 26	b.00
INSTANTANEOUS PEAK FLOW			2250
INSTANTANEOUS PEAK STAGE			c.11.78
ANNUAL RUNOFF (AC-FT)	35250	90250	55650
10 PERCENT EXCEEDS	145	524	250
50 PERCENT EXCEEDS	18	18	19
90 PERCENT EXCEEDS	1.8	12	7.0

a-Also occurred several days years 1936, 1954, and 1977.

b-From rating curve extended above 1000 ft³/s.

c-From floodmark.

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY

LOCATION.--Lat 41°01'42", long 107°32'55", in SE¹/4 NW¹/4 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 mi².

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.--Estimated daily discharges: May 4-8. Records 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.

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 ft³/s and maximum (*) during period of operation:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 12	0630	4,320	9.16	June 16	1130	5,000	9.85
June 6	1200	*5,720	*10.41				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	176	698	4340	2080	150	2.3
2	---	---	---	---	---	---	198	753	4270	1920	128	2.2
3	---	---	---	---	---	---	210	1780	4380	2040	112	2.3
4	---	---	---	---	---	---	253	1500	4380	2240	102	2.2
5	---	---	---	---	---	---	350	1280	4910	1910	99	2.3
6	---	---	---	---	---	---	455	1170	5260	1800	90	2.3
7	---	---	---	---	---	---	570	1300	4620	1830	78	2.5
8	---	---	---	---	---	---	732	1530	4110	1860	48	5.0
9	---	---	---	---	---	---	712	1900	4600	1730	25	24
10	---	---	---	---	---	---	594	2090	3660	1710	19	19
11	---	---	---	---	---	---	415	2360	2990	1640	21	3.5
12	---	---	---	---	---	---	429	3420	3230	1530	34	2.7
13	---	---	---	---	---	---	410	2850	3890	1410	24	2.5
14	---	---	---	---	---	---	601	2360	4200	1420	14	2.5
15	---	---	---	---	---	---	513	2870	4570	1200	11	2.3
16	---	---	---	---	---	---	465	3870	4630	996	6.0	2.3
17	---	---	---	---	---	---	535	3620	4490	837	5.6	2.2
18	---	---	---	---	---	---	553	3400	4210	731	7.3	2.5
19	---	---	---	---	---	---	519	3610	3200	726	7.0	5.8
20	---	---	---	---	---	---	475	3860	3090	817	5.6	40
21	---	---	---	---	---	---	470	3800	3040	690	3.3	20
22	---	---	---	---	---	---	400	4280	3040	636	3.1	14
23	---	---	---	---	---	---	359	4680	3090	567	4.0	9.2
24	---	---	---	---	---	---	309	4090	2850	476	4.5	9.2
25	---	---	---	---	---	---	301	3680	2590	416	18	8.8
26	---	---	---	---	---	---	333	3520	2440	356	25	8.8
27	---	---	---	---	---	---	309	3650	2480	277	7.0	5.6
28	---	---	---	---	---	---	346	3770	2640	236	3.3	5.0
29	---	---	---	---	---	---	377	3710	2670	201	2.7	27
30	---	---	---	---	---	---	550	3970	2450	178	2.5	126
31	---	---	---	---	---	---	---	4290	---	168	2.3	---
TOTAL	---	---	---	---	---	---	12919	89661	110320	34628	1062.2	364.0
MEAN	---	---	---	---	---	---	431	2892	3677	1117	34.3	12.1
MAX	---	---	---	---	---	---	732	4680	5260	2240	150	126
MIN	---	---	---	---	---	---	176	698	2440	168	2.3	2.2
AC-FT	---	---	---	---	---	---	25620	177800	218800	68680	2110	722

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1971, BY WATER YEAR (WY)

	MEAN	79.5	94.3	88.8	85.4	101	215	879	2559	1827	175	27.6	27.5
MAX	282	245	160	130	433	744	1991	5698	4035	1160	198	105	
(WY)	1917	1921	1921	1917	1962	1919	1962	1920	1917	1917	1916	1965	
MIN	6.18	36.3	45.0	37.1	47.8	82.8	298	1065	217	5.17	1.58	.78	
(WY)	1961	1956	1923	1963	1967	1965	1961	1954	1954	1966	1966	1962	

SUMMARY STATISTICS

FOR 1995 WATER YEAR*

WATER YEARS 1911 - 1971

ANNUAL MEAN	--									514			
HIGHEST ANNUAL MEAN	--									930			1920
LOWEST ANNUAL MEAN	--									212			1961
HIGHEST DAILY MEAN	5260									8960			May 23 1920
LOWEST DAILY MEAN	2.2	Sep 4,17								.00			Several days, 1977,1982,1992#
ANNUAL SEVEN-DAY MINIMUM	--									.35			Sep 3 1969
INSTANTANEOUS PEAK FLOW	5720	Jun 6								a13000			May 16 1984#
INSTANTANEOUS PEAK STAGE	10.41	Jun 6								b13.56			May 16 1984#
INSTANTANEOUS LOW FLOW	--									.00			Sep 17 1992
ANNUAL RUNOFF (AC-FT)										372600			
10 PERCENT EXCEEDS										1850			
50 PERCENT EXCEEDS										100			
90 PERCENT EXCEEDS										8.0			

* During period of operation.

For period of record through 1995.

a From rating curve extended above 10,000 ft³/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 SE¹/₄ NW¹/₄ 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 1994 TO SEPTEMBER 1995

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)
MAR 22...	1130	698	382	8.2	6.0	8.0	601	9.4	96
MAY 24...	1445	4050	162	7.9	6.5	12.0	605	9.1	93
JUN 29...	1315	2830	87	7.6	12.0	25.0	612	8.8	102
SEP 01...	1710	2.8	489	8.6	24.5	24.5	614	9.5	143

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)
MAR 22...	140	38	11	22	0.8	2.5	121	70
MAY 24...	63	18	4.4	6.1	0.3	1.2	64	15
SEP 01...	180	45	17	41	1	3.5	197	58

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, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
MAR 22...	5.6	0.2	15	279	74	44	715	1350
MAY 24...	1.6	0.1	14	111	360	14	852	9320
JUN 29...	--	--	--	--	--	--	162	1240
SEP 01...	8.2	0.4	7.4	314	58	16	7	0.05

09260000 LITTLE SNAKE RIVER NEAR LILY, CO

LOCATION.--Lat 40°32'50", long 108°25'25", in NW¹/4NE¹/4 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 mi², approximately.

PERIOD OF RECORD.--June to August 1904 (published as "near Maybell"), October 1921 to current year. Monthly discharge only for some periods, published in WSP 1313.

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.--Estimated daily discharges: Nov. 21 to Feb. 16, Feb. 19-25, and Mar. 23, 24. Records good except those 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	81	95	109	126	366	222	512	5060	2590	317	44
2	7.1	82	93	105	127	290	209	919	4660	2270	311	38
3	48	96	89	103	131	259	207	968	4680	2050	297	35
4	297	57	90	107	127	232	212	2470	4810	2030	272	30
5	621	89	89	109	133	231	231	2180	4870	2280	232	28
6	284	106	87	108	137	231	243	1580	5060	2180	203	28
7	111	99	77	104	133	200	313	1600	5750	1910	183	32
8	54	80	82	107	138	200	437	1770	5830	1880	164	460
9	101	79	94	105	140	198	562	2050	4700	1900	147	145
10	112	93	98	100	145	170	685	2440	4810	1860	134	53
11	103	103	100	104	141	167	630	2440	4380	1800	131	146
12	77	106	97	100	140	183	555	2380	3310	1780	121	79
13	72	110	103	98	147	217	436	3310	3370	1690	87	51
14	71	79	100	97	150	369	393	3690	3870	1630	77	56
15	70	48	101	100	155	343	396	2620	4500	1590	75	47
16	77	175	105	101	152	278	554	2800	4890	1560	87	42
17	78	145	104	99	121	305	567	3760	5200	1340	81	42
18	77	170	100	103	85	335	503	3700	5220	1120	75	43
19	87	129	103	107	146	385	516	3530	4980	1010	72	147
20	92	112	99	103	260	419	562	3550	3660	1120	65	75
21	97	107	105	106	365	576	529	3870	3290	1070	61	40
22	100	99	109	110	490	508	487	3890	3210	1060	59	49
23	108	101	111	108	600	456	487	4200	3170	969	58	54
24	105	94	109	105	712	1300	444	5020	3210	884	53	94
25	95	90	107	110	620	404	427	4580	3050	788	73	106
26	85	93	109	109	578	409	415	3850	2780	678	61	114
27	87	91	106	112	500	346	373	3780	2570	580	47	114
28	80	95	104	115	449	292	402	3900	2550	501	41	112
29	81	97	109	114	---	286	389	4980	2660	424	41	138
30	75	92	112	116	---	210	490	4440	2780	374	40	168
31	76	---	111	119	---	226	---	4630	---	339	39	---
TOTAL	3434.4	2998	3098	3293	7148	10391	12876	95409	122880	43257	3704	2610
MEAN	111	99.9	99.9	106	255	335	429	3078	4096	1395	119	87.0
MAX	621	175	112	119	712	1300	685	5020	5830	2590	317	460
MIN	6.3	48	77	97	85	167	207	512	2550	339	39	28
AC-FT	6810	5950	6140	6530	14180	20610	25540	189200	243700	85800	7350	5180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1995, BY WATER YEAR (WY)

	MEAN	111	117	97.1	87.9	121	373	1079	2561	1887	305	69.6	53.8
MAX	385	363	244	205	595	1260	3259	5967	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 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1922 - 1995
ANNUAL TOTAL	103760.06	311098.4	
ANNUAL MEAN	284	852	573
HIGHEST ANNUAL MEAN			1252
LOWEST ANNUAL MEAN			110
HIGHEST DAILY MEAN	2400	5830	13400
LOWEST DAILY MEAN	a.00	6.3	b.00
ANNUAL SEVEN-DAY MINIMUM	.00	34	.00
INSTANTANEOUS PEAK FLOW		c.6220	16700
INSTANTANEOUS PEAK STAGE		d.6.44	e.9.85
ANNUAL RUNOFF (AC-FT)	205800	617500	415200
10 PERCENT EXCEEDS	1020	3310	1950
50 PERCENT EXCEEDS	88	146	122
90 PERCENT EXCEEDS	.53	69	12

a-Also occurred Aug 26 to Sep 13, and Sep 28-29.

b-Also occurred, Jul 31 to Sep 11, Sep 13-20, 1924, Aug 26-29, Aug 31 to Sep 13, and Sep 28-29, 1994.

c-Also occurred, Jun 8.

d-Also occurred, Jun 8.

e-Maximum gage height, 11.10 ft, Feb 13, 1962, backwater from ice.

09303000 NORTH FORK WHITE RIVER AT BUFORD, CO

LOCATION.--Lat 39°59'15", long 107°36'50", in NW¹/4NW¹/4 sec.9, T.1 S., R.91 W., Rio Blanco County, Hydrologic Unit 14050005, on right bank 600 ft east of Buford and 1.2 mi upstream from South Fork White River.

DRAINAGE AREA.--259 mi².

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.--Estimated daily discharges: Nov. 24, 25, 27-29, Dec. 13, 16-26, 28, 29 and Jan.4-9. Records good except those for estimated daily discharges, which are fair. Diversions upstream from station for irrigation of about 900 acres, and 300 acres downstream from station. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	148	161	126	147	143	141	222	1000	1030	402	261
2	157	147	155	128	147	140	142	242	1060	1010	395	252
3	153	153	156	164	144	140	142	249	1080	1120	386	253
4	153	149	149	160	143	140	145	227	1130	1060	376	250
5	152	147	151	160	143	140	152	250	1230	964	377	246
6	170	150	153	158	143	142	166	257	1330	940	372	245
7	165	152	151	156	142	136	192	251	1180	940	361	248
8	160	158	147	160	142	138	215	263	1120	947	350	274
9	157	153	131	158	144	139	201	256	1000	962	341	251
10	159	150	144	158	143	141	174	278	859	1020	337	244
11	158	149	157	149	144	148	163	357	864	1080	347	249
12	153	152	149	148	145	157	160	456	1030	1130	339	240
13	152	153	150	147	144	146	172	404	1170	1110	327	234
14	154	141	155	148	144	143	191	419	1300	1060	326	231
15	153	133	152	147	136	146	174	618	1420	941	320	229
16	155	161	150	150	139	150	172	785	1510	896	312	226
17	151	151	152	146	144	155	183	769	1500	831	312	226
18	156	156	150	142	144	154	171	746	1260	789	302	232
19	154	148	150	147	141	166	171	805	1230	758	310	242
20	152	149	148	151	141	152	170	914	1280	713	309	232
21	151	149	145	137	142	151	164	928	1280	663	300	227
22	150	145	148	129	142	152	162	1040	1260	652	320	226
23	151	136	150	130	142	149	161	1120	1200	604	319	226
24	151	150	145	161	141	150	161	878	1120	558	304	224
25	149	150	140	187	143	146	162	817	1060	530	290	222
26	149	157	145	156	144	146	168	740	1060	508	285	224
27	149	155	147	148	143	144	167	712	1080	485	279	222
28	147	160	144	146	143	143	179	598	1120	461	276	223
29	147	158	145	143	---	143	185	587	1080	441	271	318
30	148	200	149	140	---	141	248	693	1050	426	264	284
31	142	---	142	152	---	141	---	876	---	413	261	---
TOTAL	4752	4560	4611	4632	4000	4522	5154	17757	34863	25042	10070	7261
MEAN	153	152	149	149	143	146	172	573	1162	808	325	242
MAX	170	200	161	187	147	166	248	1120	1510	1130	402	318
MIN	142	133	131	126	136	136	141	222	859	413	261	222
AC-FT	9430	9040	9150	9190	7930	8970	10220	35220	69150	49670	19970	14400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1995, BY WATER YEAR (WY)

	198	183	168	161	156	159	275	767	847	398	245	205
MEAN	198	183	168	161	156	159	275	767	847	398	245	205
MAX	323	273	257	234	240	237	584	1749	1618	1131	447	357
(WY)	1985	1985	1985	1985	1985	1985	1985	1985	1984	1957	1984	1984
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1910 - 1995

ANNUAL TOTAL	73560	127224	
ANNUAL MEAN	202	349	
HIGHEST ANNUAL MEAN			314
LOWEST ANNUAL MEAN			523
HIGHEST DAILY MEAN	642	May 17	157
LOWEST DAILY MEAN	131	Dec 9	157
ANNUAL SEVEN-DAY MINIMUM	137	Sep 7	3150
INSTANTANEOUS PEAK FLOW			90
INSTANTANEOUS PEAK STAGE			106
ANNUAL RUNOFF (AC-FT)	145900	252300	106
10 PERCENT EXCEEDS	394	1010	3550
50 PERCENT EXCEEDS	156	161	3550
90 PERCENT EXCEEDS	143	142	3550

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 September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
MAR 21...	1200	151	360	8.1	4.0	9.8	0.8	K1	180	56	9.9	3.1
APR 20...	0900	171	327	8.0	1.0	11.3	1.5	K6	160	50	9.0	3.0
JUN 29...	1345	1010	161	7.8	11.0	10.2	--	K20	71	21	4.6	1.8
JUL 21...	0900	689	193	8.2	10.0	9.3	--	1500	91	27	5.7	2.1
AUG 17...	0930	316	275	8.1	11.0	9.2	1.8	K15	130	39	7.6	2.5
SEP 22...	0900	227	299	8.0	3.0	10.3	0.4	K25	140	44	8.4	2.7

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
MAR 21...	0.1	1.0	95	81	0.5	0.1	18	240	227	0.33	97.8
APR 20...	0.1	0.9	93	71	0.5	<0.1	16	207	207	0.28	95.6
JUN 29...	0.1	0.7	57	19	0.4	<0.1	14	106	96	0.14	289
JUL 21...	0.1	0.7	66	27	0.4	<0.1	16	129	119	0.18	240
AUG 17...	0.1	0.8	83	50	0.4	<0.1	19	177	169	0.24	151
SEP 22...	0.1	0.9	89	62	0.3	<0.1	17	198	189	0.27	121

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
MAR 21...	<0.01	0.06	<0.02	<0.2	<0.2	<0.01	<0.01	0.01
APR 20...	<0.01	0.08	<0.02	<0.2	<0.2	<0.01	0.01	0.01
JUN 29...	<0.01	<0.05	<0.02	<0.2	<0.2	0.04	0.02	<0.01
JUL 21...	<0.01	<0.05	0.03	<0.2	<0.2	0.04	<0.01	<0.01
AUG 17...	<0.01	<0.05	0.03	<0.2	<0.2	<0.01	<0.01	0.01
SEP 22...	<0.01	<0.05	<0.02	<0.2	<0.2	0.01	0.02	0.01

K-Based on non-ideal colony count.

09303000 NORTH FORK WHITE RIVER AT BUFORD, CO--Continued
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
MAR 21...	60	<10	<1	<100	<10	10	<1	<1	<1	<1	100
APR 20...	140	20	<1	<100	<10	<10	<1	<1	<1	<1	180
JUN 29...	320	20	<1	<100	<10	<10	<1	<1	<1	<1	350
JUL 21...	--	<10	<1	<100	<10	20	<1	<1	<1	<1	270
AUG 17...	--	20	<1	<100	<10	<10	<1	<1	<1	<1	90
SEP 22...	20	<10	<1	<100	<10	10	<1	<1	<1	<1	50

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
MAR 21...	4	<1	<10	10	3	1	<1	<1	550	<10
APR 20...	20	<1	<10	<10	3	1	<1	<1	440	<10
JUN 29...	42	<1	20	40	5	<1	<1	<1	190	<10
JUL 21...	19	<1	<10	20	5	<1	<1	<1	250	<10
AUG 17...	14	<1	<10	<10	4	2	<1	<1	380	<10
SEP 22...	10	<1	<10	<10	4	1	<1	<1	470	<10

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 11...	1505	155	343	9.0	MAY 23...	0950	1060	190	4.5
DEC 02...	1230	172	354	0.0	JUN 17...	0655	1460	145	5.5
JAN 12...	1155	162	357	0.0	SEP 01...	1330	263	286	13.5
FEB 24...	1110	137	365	2.0	27...	1225	218	304	8.5

09303300 SOUTH FORK WHITE RIVER AT BUDGE'S RESORT, CO

LOCATION.--Lat 39°50'36", long 107°20'03", in NW¹/4NW¹/4 sec.36, T.2 S., R.89 W., Garfield County, Hydrologic Unit 14050005, on right bank 20 ft upstream from Forest Service trail bridge, 0.2 mi upstream from Wagonwheel Creek, and 0.3 mi northeast of Budge's Resort.

DRAINAGE AREA.--52.3 mi².

PERIOD OF RECORD.--July 1975 to September 1995 (Discontinued).

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 8,980 ft above sea level, from topographic map. June 1, 1975, to July 7, 1976, at site on left bank 50 ft upstream at datum 1.3 ft, lower.

REMARKS.--Estimated daily discharges: Nov. 14 to Feb. 26, Mar. 7-10, Mar. 23 to Apr. 1, and Aug. 18 to Sept. 30. Records good except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	42	32	23	32	38	38	38	128	526	102	47
2	47	42	31	26	31	40	39	41	156	506	97	48
3	45	43	30	29	31	38	39	40	198	568	94	47
4	51	41	32	30	33	39	38	39	231	446	95	46
5	48	41	33	33	32	38	40	42	296	382	93	45
6	49	44	32	33	32	38	42	42	360	469	89	43
7	47	44	29	34	32	34	45	42	363	571	87	45
8	48	44	26	34	32	35	47	43	345	607	85	43
9	48	42	29	33	31	37	45	41	308	629	84	42
10	47	41	30	34	32	38	42	43	261	715	84	44
11	47	42	33	34	32	40	41	46	273	749	83	43
12	46	44	32	33	33	41	41	48	352	686	85	42
13	44	42	31	30	32	39	43	45	471	547	85	41
14	44	35	31	28	30	41	45	50	601	431	82	39
15	45	37	31	29	28	40	42	66	697	370	78	39
16	45	39	31	30	33	41	42	77	831	335	75	40
17	43	38	31	30	37	42	43	78	819	297	76	41
18	45	37	29	30	39	41	41	78	599	255	70	44
19	44	37	27	30	40	41	42	85	544	248	68	42
20	44	36	29	27	37	41	41	95	614	232	68	41
21	45	34	29	25	38	39	39	102	681	217	66	42
22	45	31	30	29	38	39	40	118	712	197	68	41
23	45	29	31	31	38	37	38	139	671	172	67	42
24	44	32	30	34	38	36	37	136	604	159	64	41
25	44	35	28	34	37	36	37	128	582	149	62	41
26	43	33	27	33	38	35	38	119	595	139	59	41
27	44	32	28	31	38	35	38	112	608	129	57	42
28	43	31	30	29	38	35	39	99	590	123	57	44
29	44	31	32	28	---	35	39	95	569	115	52	56
30	42	30	30	32	---	35	40	97	532	112	49	50
31	38	---	27	34	---	37	---	110	---	107	48	---
TOTAL	1400	1129	931	950	962	1181	1221	2334	14591	11188	2329	1302
MEAN	45.2	37.6	30.0	30.6	34.4	38.1	40.7	75.3	486	361	75.1	43.4
MAX	51	44	33	34	40	42	47	139	831	749	102	56
MIN	38	29	26	23	28	34	37	38	128	107	48	39
AC-FT	2780	2240	1850	1880	1910	2340	2420	4630	28940	22190	4620	2580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1995, BY WATER YEAR (WY)

	MEAN	56.5	52.6	48.4	46.1	44.3	45.0	60.1	188	409	153	69.1	57.2
MAX	101	81.8	71.7	69.8	63.6	67.8	91.6	327	1047	361	125	104	
(WY)	1985	1985	1987	1986	1985	1986	1989	1978	1978	1995	1984	1984	
MIN	45.0	37.6	30.0	30.6	33.0	31.0	39.4	75.3	68.3	48.5	40.0	26.4	
(WY)	1977	1995	1995	1995	1981	1981	1993	1995	1977	1994	1977	1977	

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1975 - 1995

	ANNUAL TOTAL	23312	39518	
ANNUAL MEAN	63.9	108	102	
HIGHEST ANNUAL MEAN			172	1978
LOWEST ANNUAL MEAN			49.4	1977
HIGHEST DAILY MEAN	479	Jun 1	831	Jun 16
LOWEST DAILY MEAN	26	Dec 8	23	Jan 1
ANNUAL SEVEN-DAY MINIMUM	29	Dec 25	28	Dec 27
INSTANTANEOUS PEAK FLOW			1090	Jul 11
INSTANTANEOUS PEAK STAGE			5.88	Jul 11
ANNUAL RUNOFF (AC-FT)	46240		78380	
10 PERCENT EXCEEDS	102		348	
50 PERCENT EXCEEDS	44		42	
90 PERCENT EXCEEDS	33		30	

a-Also occurred Sep 30, 1977.

b-From rating curve extended above 850 ft³/s.

09303400 SOUTH FORK WHITE RIVER NEAR BUDGE'S RESORT, CO

LOCATION.--Lat 39°52'00", long 107°32'10", in NW¹/4SE¹/4 sec.19, T.2 S., R.90 W., Rio Blanco County, Hydrologic Unit 14050005, on right bank on downstream end of the South Fork Campground, 10 mi above mouth, and about 10.5 mi southeast of Buford.

DRAINAGE AREA.--128 mi².

PERIOD OF RECORD.--May 1976 to current year. Water-quality data available November 1983 to May 1989.

REVISED RECORDS.--WDR CO-79-3: 1976 (M), 1977, 1978 (P), 1978.

GAGE.--Water-stage recorder. Elevation of gage is 7,600 ft above sea level, from topographic map. Prior to Feb. 7,1994, at site 0.25 mi upstream at different datum.

REMARKS.--Records good. No regulation or diversions upstream from station. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	70	69	39	68	68	71	94	373	1180	251	122
2	70	68	67	56	65	69	72	100	444	1140	238	121
3	69	72	70	58	61	69	71	99	551	1300	228	120
4	79	67	75	59	60	69	73	97	617	1090	224	119
5	77	68	75	67	64	69	77	106	806	980	216	118
6	80	70	75	69	64	67	80	106	967	1120	207	120
7	75	70	70	67	64	59	88	107	911	1300	202	118
8	74	73	62	68	63	67	96	113	887	1330	196	121
9	73	69	38	71	64	72	95	109	809	1330	186	114
10	73	68	55	71	64	72	88	112	677	1430	186	111
11	72	70	62	70	62	74	86	125	696	1500	190	114
12	72	74	63	63	62	76	85	139	948	1360	189	108
13	70	71	70	67	64	71	88	135	1300	1230	182	104
14	70	54	70	64	60	71	92	141	1430	1010	176	102
15	70	57	65	62	43	73	90	179	1270	860	167	100
16	72	77	68	59	60	74	89	227	1390	767	160	100
17	68	71	71	54	71	77	92	235	1700	699	156	99
18	73	68	68	50	75	76	90	232	1150	625	151	109
19	71	73	70	58	72	82	90	255	1000	613	150	111
20	70	69	63	59	72	76	90	297	1310	575	150	105
21	70	71	64	46	74	77	86	314	1370	540	148	101
22	71	64	66	45	74	77	85	357	1480	497	152	100
23	70	50	69	52	71	74	84	397	1440	440	151	100
24	69	64	75	61	71	77	83	380	1380	404	151	99
25	68	71	74	69	71	73	84	373	1340	373	148	98
26	68	71	70	69	71	73	86	348	1310	348	144	99
27	68	59	61	66	70	71	85	336	1400	322	144	98
28	67	62	65	63	69	73	88	301	1460	303	142	101
29	67	60	69	58	---	72	91	298	1370	286	132	133
30	68	65	70	53	---	69	98	307	1210	275	129	121
31	63	---	62	69	---	70	---	333	---	263	126	---
TOTAL	2195	2016	2071	1882	1849	2237	2573	6752	32996	25490	5372	3286
MEAN	70.8	67.2	66.8	60.7	66.0	72.2	85.8	218	1100	822	173	110
MAX	80	77	75	71	75	82	98	397	1700	1500	251	133
MIN	63	50	38	39	43	59	71	94	373	263	126	98
AC-FT	4350	4000	4110	3730	3670	4440	5100	13390	65450	50560	10660	6520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1995, BY WATER YEAR (WY)

	MEAN	70.8	67.2	66.8	60.7	66.0	72.2	85.8	218	1100	822	173	110
MAX	172	131	113	101	106	116	221	704	1536	822	218	161	
(WY)	1985	1985	1985	1986	1985	1985	1985	1985	1978	1995	1984	1984	
MIN	58.6	48.4	52.1	45.8	40.0	43.7	75.5	218	202	68.8	58.8	60.5	
(WY)	1978	1978	1981	1980	1980	1980	1991	1995	1977	1977	1977	1977	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1976 - 1995

ANNUAL TOTAL	47746	88719	
ANNUAL MEAN	131	243	
HIGHEST ANNUAL MEAN			198
LOWEST ANNUAL MEAN			301
HIGHEST DAILY MEAN	1040	Jun 1	1700
LOWEST DAILY MEAN	38	Dec 9	38
ANNUAL SEVEN-DAY MINIMUM	55	Jan 1	52
INSTANTANEOUS PEAK FLOW			1950
INSTANTANEOUS PEAK STAGE			3.28
ANNUAL RUNOFF (AC-FT)	94700	176000	143400
10 PERCENT EXCEEDS	261	871	539
50 PERCENT EXCEEDS	72	77	89
90 PERCENT EXCEEDS	62	63	59

a-Site and datum then in use.

09304000 SOUTH FORK WHITE RIVER AT BUFORD, CO

LOCATION.--Lat 39°58'28", long 107°37'30", in NW¹/4NE¹/4 sec.17, T.1 S., R.91 W., Rio Blanco County, Hydrologic Unit 14050005, on right bank 30 ft downstream from highway bridge, 0.8 mi upstream from mouth, and 1.0 mi south of Buford.

DRAINAGE AREA.--177 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1919 to December 1920 (monthly discharge only, published in WSP 1313), October 1951 to current year.

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.--Estimated daily discharges: Nov. 24-27, Nov. 29 to Dec. 3, Dec. 10-13, 15-29, Jan. 2-6, 12-13, Jan. 22 to Feb. 2, and Apr. 11-19. Records good except those for estimated daily discharges, which are fair. Diversions upstream for irrigation of about 1,100 acres. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	86	89	67	83	94	95	142	510	1440	305	151
2	98	85	92	88	80	94	98	158	564	1370	289	146
3	98	87	90	90	80	97	96	173	691	1500	277	145
4	102	87	95	92	85	95	100	172	780	1390	281	143
5	102	82	94	94	87	93	104	191	870	1220	285	142
6	105	90	95	96	84	93	105	206	899	1230	269	144
7	95	90	94	96	81	78	111	214	1030	1390	259	142
8	92	92	84	89	85	84	120	239	1070	1460	248	155
9	91	91	67	88	87	101	127	252	1030	1410	239	152
10	91	85	88	89	85	97	119	267	867	1480	235	146
11	91	90	90	84	82	99	120	296	799	1480	237	148
12	90	91	90	78	80	108	122	340	965	1450	243	142
13	90	90	92	81	87	95	121	343	1210	1340	237	138
14	90	74	94	80	86	90	120	351	1510	1130	231	135
15	90	64	92	78	58	97	121	397	1660	903	222	132
16	92	94	90	77	76	100	121	439	1880	839	214	134
17	89	93	90	70	98	103	120	454	2140	778	199	135
18	89	89	92	64	97	102	121	478	1770	745	184	138
19	89	90	94	88	89	117	122	484	1520	697	180	150
20	90	87	94	86	93	107	122	496	1610	674	181	141
21	89	88	96	78	90	107	115	513	1710	640	180	137
22	88	84	96	77	96	110	112	526	1820	607	183	134
23	88	66	94	80	91	100	113	533	1770	546	185	132
24	88	85	84	82	92	112	113	525	1630	509	183	131
25	87	91	82	88	94	99	113	494	1580	474	179	130
26	87	91	80	80	97	103	120	487	1580	436	176	130
27	86	80	82	78	94	91	117	486	1610	401	171	129
28	86	78	84	75	94	92	121	439	1620	376	175	129
29	86	81	90	73	---	101	123	417	1580	353	165	170
30	86	86	94	70	---	88	142	457	1490	336	160	168
31	76	---	84	84	---	88	---	473	---	325	156	---
TOTAL	2820	2567	2772	2540	2431	3035	3474	11442	39765	28929	6728	4249
MEAN	91.0	85.6	89.4	81.9	86.8	97.9	116	369	1325	933	217	142
MAX	105	94	96	96	98	117	142	533	2140	1500	305	170
MIN	76	64	67	64	58	78	95	142	510	325	156	129
AC-FT	5590	5090	5500	5040	4820	6020	6890	22700	78870	57380	13340	8430

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919 - 1995, BY WATER YEAR (WY)

	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
MEAN	128	117	109	104	105	106	157	610	1009	316	160	131
MAX	240	209	170	150	150	167	287	1072	1889	1119	276	215
(WY)	1985	1985	1921	1987	1984	1986	1962	1969	1978	1957	1920	1984
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1919 - 1995

ANNUAL TOTAL	55615	110752	
ANNUAL MEAN	152	303	254
HIGHEST ANNUAL MEAN			363
LOWEST ANNUAL MEAN			129
HIGHEST DAILY MEAN	899	Jun 1	2970
LOWEST DAILY MEAN	64	Nov 15	47
ANNUAL SEVEN-DAY MINIMUM	72	Jan 1	62
INSTANTANEOUS PEAK FLOW			3150
INSTANTANEOUS PEAK STAGE		5.78	6.27
ANNUAL RUNOFF (AC-FT)	110300	219700	184300
10 PERCENT EXCEEDS	283	928	625
50 PERCENT EXCEEDS	91	107	127
90 PERCENT EXCEEDS	80	82	90

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 September 1995.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
MAR 21...	1030	103	278	8.1	4.0	11.0	1.3	K8	150	44	9.6
APR 20...	1130	122	268	8.3	3.5	10.3	1.8	<1	140	40	9.1
JUN 29...	1300	1570	179	7.9	11.5	10.4	--	66	92	27	6.0
JUL 21...	1045	644	199	8.2	10.0	9.5	--	800	100	29	6.6
AUG 17...	1045	167	258	8.3	12.0	9.3	1.7	K7	130	38	8.7
SEP 22...	1000	134	266	8.2	4.0	10.5	0.5	K7	140	40	9.1

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
MAR 21...	2.2	0.1	0.9	119	28	0.6	<0.1	16	180	173
APR 20...	2.0	0.1	0.8	117	24	0.5	<0.1	14	150	161
JUN 29...	0.8	0.0	0.5	92	5.3	0.2	<0.1	7.1	107	103
JUL 21...	1.3	0.1	0.5	93	10	0.2	<0.1	10	123	114
AUG 17...	1.9	0.1	0.7	116	18	0.4	<0.1	15	153	153
SEP 22...	2.0	0.1	0.8	118	24	0.5	0.1	14	164	161

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
MAR 21...	0.24	50.1	<0.01	<0.05	<0.02	<0.20	<0.20	0.01	<0.01	<0.01
APR 20...	0.20	49.4	<0.01	<0.05	<0.02	<0.20	<0.20	<0.01	<0.01	<0.01
JUN 29...	0.15	454	<0.01	0.10	<0.02	<0.20	<0.20	0.02	0.01	<0.01
JUL 21...	0.17	214	<0.01	0.05	0.02	<0.20	<0.20	0.01	<0.01	<0.01
AUG 17...	0.21	69.0	<0.01	0.05	0.03	<0.20	<0.20	<0.01	<0.01	<0.01
SEP 22...	0.22	59.3	<0.01	<0.05	<0.02	<0.20	<0.20	0.01	<0.01	0.02

K-Based on non-ideal colony count.

DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
MAR 21...	<10	<10	<1	<100	<10	<10	<1	<1	<1	<1	70
APR 20...	40	10	<1	<100	<10	<10	<1	<1	<1	1	80

09304000 SOUTH FORK WHITE RIVER AT BUFORD, CO--Continued

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
MAR 21...	7	<1	<10	<10	4	<1	<1	<1	260	<10
APR 20...	10	<1	<10	<10	3	<1	<1	<1	190	<10
JUN 29...	16	--	--	--	3	--	--	--	--	--
JUL 21...	14	--	--	--	4	--	--	--	--	--
AUG 17...	8	--	--	--	3	--	--	--	--	--
SEP 22...	14	--	--	--	3	--	--	--	--	--

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 11...	1410	93	285	10.5	MAY 23...	0830	561	233	5.5
DEC 02...	1110	106	288	0.0	JUN 08...	1210	1070	223	6.5
JAN 12...	1115	65	283	0.0	SEP 01...	1220	150	222	15.0
FEB 21...	1150	46	292	4.0	27...	1100	134	275	8.5
24...	1015	54	277	2.5					

09304200 WHITE RIVER ABOVE COAL CREEK NEAR MEEKER, CO

LOCATION.--Lat 40°00'18", long 107°49'29", in NW¹/4NW¹/4 sec.3, T.1 S., R.93 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 15 ft downstream from county road bridge, 2.3 mi upstream from Coal Creek, and 5.0 mi southeast of Meeker.

DRAINAGE AREA.--648 mi².

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.--Estimated daily discharge: Dec. 8 to Mar. 3. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	255	292	214	252	262	268	462	2080	2840	775	281
2	161	250	296	221	256	240	275	482	2290	2660	717	273
3	151	267	276	220	254	246	269	521	2620	2610	639	268
4	151	263	295	222	255	250	275	480	2800	3040	621	265
5	179	248	277	219	254	249	295	497	3120	2560	614	256
6	195	262	285	216	257	256	318	536	3630	2440	549	242
7	249	265	276	221	250	226	356	542	3550	2490	517	243
8	281	277	291	218	255	233	391	627	3410	2630	499	273
9	296	276	245	216	254	253	383	642	3130	2560	474	244
10	294	252	240	219	255	262	349	659	2510	2660	458	229
11	287	247	243	220	252	287	329	799	2270	2610	476	263
12	277	252	238	214	254	314	324	985	2610	2840	462	262
13	265	264	241	210	262	280	328	977	3040	2700	444	259
14	268	241	238	216	265	270	360	940	3510	2470	436	277
15	267	218	244	218	221	281	349	1070	4000	2120	423	285
16	277	267	237	214	210	288	349	1440	4610	1880	413	291
17	269	294	236	213	259	307	366	1470	4860	1680	408	293
18	273	269	230	217	270	308	361	1480	4250	1590	377	300
19	282	274	238	214	247	348	360	1540	3450	1490	379	330
20	276	261	235	210	254	321	365	1780	3470	1430	407	316
21	270	271	237	213	250	312	350	1890	3620	1430	405	314
22	270	262	233	211	263	319	343	1890	3690	1520	423	317
23	272	291	238	222	250	296	343	2270	3570	1390	423	326
24	272	302	230	228	255	312	342	1990	3240	1270	412	323
25	268	310	227	240	262	289	342	1880	3040	1170	383	321
26	268	277	230	253	272	293	367	1730	2920	1070	352	323
27	264	265	232	258	266	272	357	1700	2870	1000	338	328
28	265	248	226	254	268	270	374	1470	3040	938	339	342
29	261	240	229	247	---	286	384	1360	3090	889	316	496
30	262	240	228	232	---	263	468	1550	2900	850	296	521
31	245	---	225	253	---	262	---	1750	---	824	280	---
TOTAL	7770	7908	7688	6943	7122	8655	10340	37409	97190	59651	14055	9061
MEAN	251	264	248	224	254	279	345	1207	3240	1924	453	302
MAX	296	310	296	258	272	348	468	2270	4860	3040	775	521
MIN	151	218	225	210	210	226	268	462	2080	824	280	229
AC-FT	15410	15690	15250	13770	14130	17170	20510	74200	192800	118300	27880	17970

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1995, BY WATER YEAR (WY)

	MEAN	345	333	299	286	280	298	503	1478	1762	592	295	256
MAX	585	488	424	404	387	448	1034	2785	3526	1924	759	547	
(WY)	1985	1987	1986	1986	1986	1986	1985	1985	1984	1995	1984	1984	
MIN	141	229	184	181	208	225	319	397	194	29.3	42.4	71.7	
(WY)	1978	1978	1977	1977	1978	1977	1991	1977	1977	1977	1994	1977	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1962 - 1995

ANNUAL TOTAL	110017	273792	
ANNUAL MEAN	301	750	561
HIGHEST ANNUAL MEAN			966
LOWEST ANNUAL MEAN			208
HIGHEST DAILY MEAN	1280	Jun 1	5360
LOWEST DAILY MEAN	^a 17	Aug 31	^c 6.5
ANNUAL SEVEN-DAY MINIMUM	19	Aug 26	8.8
INSTANTANEOUS PEAK FLOW			5740
INSTANTANEOUS PEAK STAGE			7.07
ANNUAL RUNOFF (AC-FT)	218200	543100	406500
10 PERCENT EXCEEDS	652	2560	1370
50 PERCENT EXCEEDS	273	291	320
90 PERCENT EXCEEDS	53	228	213

a-Also occurred Sep 1.

b-Also occurred Oct 4.

c-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 September 1995.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1978 to September 1984.

WATER TEMPERATURES: 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 TEMPERATURES: 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 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CA CO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
NOV												
16...	1350	265	429	8.3	1.0	--	--	--	220	69	12	4.0
FEB												
09...	1200	254	408	8.2	2.0	--	--	--	200	62	11	3.7
MAR												
07...	1930	186	457	8.3	4.0	--	--	--	230	72	12	4.2
23...	1500	313	416	8.0	5.5	10.2	1.5	K8	200	63	11	3.7
APR												
20...	1315	362	400	8.4	6.5	9.9	1.4	K12	200	61	11	3.7
JUN												
20...	2000	3400	214	8.2	11.0	10.1	--	70	110	33	6.2	1.7
JUL												
21...	1230	1490	245	8.1	12.5	9.6	--	1300	120	35	6.8	2.2
AUG												
17...	1145	404	360	8.1	14.5	9.7	1.7	K19	170	53	9.7	3.6
SEP												
22...	1100	309	393	8.2	--	10.5	2.7	32	190	59	11	3.9

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CA CO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI O2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
NOV											
16...	0.1	1.0	123	100	1.4	0.1	16	--	277	0.38	198
FEB											
09...	0.1	1.0	112	92	1.4	0.1	16	--	254	0.35	174
MAR											
07...	0.1	1.0	117	110	2.0	0.1	17	--	288	0.39	145
23...	0.1	0.9	116	91	1.6	0.1	16	274	257	0.37	232
APR											
20...	0.1	0.9	113	85	1.5	<0.1	15	246	246	0.33	240
JUN											
20...	0.1	0.7	88	18	0.5	<0.1	11	126	125	0.17	1160
JUL											
21...	0.1	0.6	90	32	0.7	<0.1	13	157	144	0.21	629
AUG											
17...	0.1	0.9	113	64	1.6	<0.1	16	229	217	0.31	250
SEP											
22...	0.1	0.9	120	80	1.4	<0.1	14	250	242	0.34	209

K-Based on non-ideal colony count.

09304200 WHITE RIVER ABOVE COAL CREEK NEAR MEEKER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
MAR 23...	<0.01	<0.05	0.02	<0.2	<0.2	<0.01	0.01	<0.01
APR 20...	<0.01	<0.05	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01
JUN 20...	<0.01	0.12	<0.02	<0.2	<0.2	0.03	0.02	<0.01
JUL 21...	<0.01	<0.05	0.02	<0.2	<0.2	0.01	<0.01	<0.01
AUG 17...	<0.01	<0.05	0.03	<0.2	<0.2	<0.01	0.01	<0.01
SEP 22...	<0.01	<0.05	<0.02	<0.2	<0.2	0.01	0.01	0.02

DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
MAR 23...	50	<10	<1	<100	<10	10	<1	<1	<1	<1	80
APR 20...	100	<10	<1	<100	<10	<10	<1	<1	<1	<1	160
JUN 20...	680	60	<1	<100	<10	10	<1	1	<1	1	740
JUL 21...	--	<10	<1	<100	<10	10	<1	<1	<1	<1	310
AUG 17...	--	<10	<1	<100	<10	20	<1	<1	<1	<1	50
SEP 22...	30	<10	<1	<100	<10	10	<1	<1	<1	<1	60

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
MAR 23...	5	<1	<10	<10	3	<1	<1	<1	580	<10
APR 20...	8	<1	<10	10	3	1	<1	<1	500	<10
JUN 20...	34	<1	10	20	6	<1	2	<1	180	<10
JUL 21...	15	<1	<10	20	8	<1	<1	<1	280	<10
AUG 17...	12	<1	<10	20	7	2	<1	<1	440	<10
SEP 22...	<3	<1	<10	<10	7	1	<1	<1	560	<10

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 24...	1405	266	412	7.0	MAY 15...	1605	965	320	12.5
JAN 31...	1350	253	424	2.0	AUG 07...	1102	531	329	14.5
MAR 03...	1135	246	426	5.5	SEP 27...	0942	326	393	8.0

09304500 WHITE RIVER NEAR MEEKER, CO

LOCATION.--Lat 40°02'01", long 107°51'42", in NE¹/4NE¹/4 sec.30, T.1 N., R.93 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 1.0 mi upstream from Curtis Creek and 2.5 mi east of Meeker.

DRAINAGE AREA.--755 mi².

PERIOD OF RECORD.--June 1901 to December 1906, October 1909 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "at Meeker" 1901-13.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,300 ft above sea level, from topographic map. Prior to Oct. 31, 1906, and May 7 to Aug. 13, 1910, nonrecording gage, and Aug. 14, 1910, to Oct. 19, 1913, water-stage recorder, at site 2.5 mi downstream, at different datum. Oct. 20, 1913, to Sept. 30, 1971, water-stage recorder at present site, at datum 3.00 ft, higher, prior to Oct. 1, 1933, and at datum 2.00 ft, higher, thereafter.

REMARKS.--Estimated daily discharges: Nov. 24, 25, Dec. 10-31, Jan. 3-21, 23-26. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	253	287	323	238	292	289	280	504	2360	2920	837	363
2	249	285	311	248	292	273	288	550	2550	2780	762	362
3	239	301	311	246	280	277	281	621	2830	3150	660	355
4	243	302	320	249	270	282	285	536	3070	3180	643	353
5	249	292	317	245	282	271	301	534	3340	2730	630	343
6	282	306	331	241	281	275	320	565	3890	2650	591	330
7	317	307	323	248	277	233	358	549	3700	2730	568	330
8	332	319	301	244	278	240	391	659	3500	2850	560	367
9	335	324	273	243	283	265	386	699	3250	2780	533	343
10	333	303	271	245	284	267	363	693	2710	2890	515	328
11	324	298	268	243	282	286	339	820	2470	3050	531	355
12	312	300	270	240	283	322	335	1090	2820	3160	537	355
13	304	318	268	238	289	295	333	1080	3240	2990	524	350
14	303	299	264	240	290	278	366	924	3710	2850	523	365
15	298	270	265	243	255	285	363	1150	4240	2520	510	369
16	311	330	266	239	250	293	366	1550	4780	2290	495	362
17	299	344	260	237	287	306	378	1610	5030	2110	483	370
18	302	320	261	240	296	305	386	1600	4180	2020	452	377
19	307	322	264	238	278	347	385	1670	3450	1880	434	408
20	302	307	258	235	283	327	388	1910	3520	1810	472	396
21	294	317	255	237	282	313	381	2030	3710	1730	464	384
22	290	307	257	236	290	321	368	2090	3770	1690	488	375
23	290	313	255	249	282	306	365	2430	3660	1550	483	387
24	286	296	252	257	284	320	362	2120	3370	1420	474	378
25	282	312	248	271	289	301	362	2000	3170	1330	451	380
26	281	334	251	288	297	302	396	1840	3080	1230	417	385
27	282	323	250	298	292	282	380	1870	3100	1140	411	391
28	284	323	247	290	294	279	387	1640	3180	1070	413	405
29	282	323	244	281	---	296	404	1540	3180	993	398	589
30	286	329	246	261	---	271	513	1830	2980	931	379	598
31	279	---	245	288	---	272	---	2050	---	901	366	---
TOTAL	9030	9311	8475	7796	7922	8979	10810	40754	101840	67325	16004	11453
MEAN	291	310	273	251	283	290	360	1315	3395	2172	516	382
MAX	335	344	331	298	297	347	513	2430	5030	3180	837	598
MIN	239	270	244	235	250	233	280	504	2360	901	366	328
AC-FT	17910	18470	16810	15460	15710	17810	21440	80840	202000	133500	31740	22720

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1995, BY WATER YEAR (WY)

	MEAN	388	367	331	311	307	340	544	1544	1904	691	389	356
MAX	652	648	460	410	420	522	1094	2829	4091	2524	866	716	
(WY)	1985	1929	1929	1929	1930	1986	1962	1985	1921	1957	1984	1929	
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 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1910 - 1995
ANNUAL TOTAL	132157	299699	
ANNUAL MEAN	362	821	623
HIGHEST ANNUAL MEAN			1044
LOWEST ANNUAL MEAN			274
HIGHEST DAILY MEAN	1450	5030	6320
LOWEST DAILY MEAN	93	233	78
ANNUAL SEVEN-DAY MINIMUM	111	237	86
INSTANTANEOUS PEAK FLOW		5280	6950
INSTANTANEOUS PEAK STAGE		5.61	6.12
ANNUAL RUNOFF (AC-FT)	262100	594500	451400
10 PERCENT EXCEEDS	675	2780	1470
50 PERCENT EXCEEDS	307	330	369
90 PERCENT EXCEEDS	182	251	269

a-Maximum gage height, 7.60 ft, Jun 16, 1921, present datum.

09304800 WHITE RIVER BELOW MEEKER, CO

LOCATION.--Lat 40°00'48", long 108°05'33", in 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 mi².

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. Elevation of gage is 5,928 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 25 to Feb. 1. Records good except those for estimated daily discharges, which are poor. Diversion upstream from station for irrigation of about 22,000 acres and a few small hay meadows downstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	342	304	270	250	300	345	276	695	2070	2970	900	396
2	361	305	280	230	328	325	274	788	2220	2850	846	415
3	321	325	280	240	305	324	286	633	2480	3130	710	419
4	303	331	290	250	285	337	309	613	2710	3170	679	414
5	319	312	290	260	305	324	340	649	2940	2710	688	399
6	375	326	290	280	298	338	385	622	3330	2590	644	398
7	418	329	290	280	297	296	421	874	3360	2640	615	388
8	396	330	290	280	298	273	390	947	3200	2760	565	471
9	389	346	290	300	306	301	362	829	3020	2690	523	446
10	373	316	240	290	303	315	346	943	2610	2780	512	439
11	365	309	240	290	307	326	336	980	2360	2890	553	486
12	356	317	250	310	297	383	349	1220	2610	2980	587	457
13	341	340	270	310	306	353	388	1320	2940	2880	565	442
14	342	314	290	320	326	319	384	1030	3330	2800	565	463
15	340	245	300	320	310	316	381	1060	3730	2470	547	463
16	364	317	290	310	252	327	429	1390	4140	2230	517	430
17	346	377	290	290	296	339	424	1490	4490	2070	502	432
18	350	328	290	280	337	342	421	1500	4160	2000	472	456
19	363	338	300	280	315	384	447	1490	3370	1890	448	503
20	350	302	300	270	322	382	421	1630	3300	1830	510	485
21	343	322	270	250	328	340	395	1750	3420	1760	514	467
22	343	303	270	250	332	343	394	1740	3420	1730	551	460
23	337	240	290	250	331	321	387	1970	3450	1600	550	474
24	335	254	310	260	326	312	401	1840	3250	1470	562	458
25	331	280	320	290	336	292	447	1720	3100	1380	546	460
26	328	280	320	290	346	286	416	1610	3020	1280	492	465
27	323	270	310	280	348	289	438	1640	3040	1200	480	467
28	320	260	290	280	349	282	456	1520	3130	1120	484	469
29	314	240	270	270	---	272	621	1380	3130	1020	464	742
30	317	250	260	270	---	274	583	1600	3000	958	423	854
31	309	---	260	290	---	274	---	1850	---	957	408	---
TOTAL	10714	9110	8800	8620	8789	9934	11907	39323	94330	66805	17422	14118
MEAN	346	304	284	278	314	320	397	1268	3144	2155	562	471
MAX	418	377	320	320	349	384	621	1970	4490	3170	900	854
MIN	303	240	240	230	252	272	274	613	2070	957	408	388
AC-FT	21250	18070	17450	17100	17430	19700	23620	78000	187100	132500	34560	28000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1995, BY WATER YEAR (WY)

	MEAN	446	408	364	335	335	387	584	1539	1892	767	423	389
MAX	793	637	536	493	457	586	1141	2979	3904	2155	837	712	
(WY)	1985	1985	1985	1986	1986	1986	1985	1985	1983	1995	1984	1984	
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1962 - 1995

ANNUAL TOTAL	142158	299872	
ANNUAL MEAN	389	822	656
HIGHEST ANNUAL MEAN			1069
LOWEST ANNUAL MEAN			290
HIGHEST DAILY MEAN	1360	Jun 1	6060
LOWEST DAILY MEAN	95	Aug 6	85
ANNUAL SEVEN-DAY MINIMUM	122	Aug 3	90
INSTANTANEOUS PEAK FLOW			6590
INSTANTANEOUS PEAK STAGE		4.44	4.97
INSTANTANEOUS LOW FLOW			85
ANNUAL RUNOFF (AC-FT)	282000	594800	475600
10 PERCENT EXCEEDS	731	2660	1480
50 PERCENT EXCEEDS	335	373	410
90 PERCENT EXCEEDS	223	278	280

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 September 1995.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1978 to September 1983.

WATER TEMPERATURES: 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 TEMPERATURES: 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 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CAO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
NOV												
16...	0935	279	630	8.3	0.0	--	--	--	310	86	22	19
FEB												
09...	0840	297	568	8.0	2.0	--	--	--	260	71	19	19
MAR												
07...	1500	291	629	8.3	5.5	--	--	--	280	77	22	20
24...	1130	358	565	8.4	5.5	11.2	1.5	K3	250	72	18	16
APR												
20...	1600	426	542	8.4	7.0	9.9	1.8	K14	250	69	18	16
JUN												
28...	1700	3110	279	8.0	12.5	10.1	--	120	130	38	9	4.8
JUL												
20...	1530	1730	325	8.3	16.5	9.2	--	K21	150	44	10	6.2
AUG												
18...	1240	493	533	8.2	18.0	8.7	1.7	45	--	--	--	--
SEP												
21...	1100	465	572	8.4	9.5	9.8	0.7	44	270	75	20	16

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CAO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
NOV											
16...	0.5	1.4	163	170	8.0	0.2	16	--	420	0.57	317
FEB											
09...	0.5	1.3	142	140	8.0	0.2	15	--	359	0.49	288
MAR											
07...	0.5	1.3	142	160	8.3	0.2	16	--	390	0.53	306
24...	0.4	1.2	138	140	7.5	0.2	15	373	353	0.51	361
APR											
20...	0.4	1.2	132	130	6.7	<0.1	14	345	334	0.47	397
JUN											
28...	0.2	0.8	104	35	1.5	0.1	11	169	163	0.23	1420
JUL											
20...	0.2	0.8	112	50	2.2	0.1	13	202	194	0.27	945
AUG											
18...	--	--	165	110	5.8	0.2	--	346	--	--	--
SEP											
21...	0.4	1.4	169	130	5.8	0.1	14	376	364	0.51	472

K-Based on non-ideal colony count.

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
MAR 24...	0.01	<0.05	0.02	<0.2	<0.2	<0.01	<0.01	<0.01
APR 20...	<0.01	<0.05	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01
JUN 28...	0.02	0.09	0.02	0.2	<0.2	0.05	0.01	0.01
JUL 20...	<0.01	<0.05	0.02	<0.2	<0.2	0.01	<0.01	<0.01
AUG 18...	<0.01	<0.05	<0.02	0.3	0.2	0.05	0.02	0.01
SEP 21...	<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)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
MAR 24...	90	<10	<1	<100	<10	20	<1	<1	<1	<1	160
APR 20...	150	<10	<1	<100	<10	20	<1	<1	<1	<1	270
JUN 28...	690	30	<1	<100	<10	<10	<1	2	1	4	900
AUG 18...	160	<10	1	<100	<10	--	<1	<1	<1	<1	80
SEP 21...	80	<10	<1	<100	<10	30	<1	<1	<1	2	120

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
MAR 24...	14	<1	<10	30	19	<1	<1	1	700	<10
APR 20...	10	<1	<10	30	14	<1	<1	1	610	<10
JUN 28...	29	1	20	<10	10	<1	2	<1	240	<10
JUL 20...	18	--	--	--	8	--	--	--	--	--
AUG 18...	--	<1	10	30	--	2	1	<1	540	<10
SEP 21...	21	<1	10	20	14	1	<1	<1	720	<10

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 04...	1650	313	640	10.0	JUN 19...	2045	3080	297	12.5
JAN 05...	1140	317	379	0.0	JUL 13...	1020	2930	262	12.0
MAY 11...	1130	947	552	9.5	AUG 31...	1010	425	590	15.0
24...	1435	1820	327	9.0					

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO

LOCATION.--Lat 39°49'34", long 108°10'57", in SE¹/4SE¹/4 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 mi².

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.--Estimated daily discharges: Nov. 18 to Jan. 6, Jan. 14-25, 30, and May 8 and 9. Records good except those 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	5.8	5.9	5.9	6.7	6.1	7.9	4.1	210	35	26	17
2	4.4	6.9	6.3	5.8	7.8	6.0	7.9	6.9	205	39	27	18
3	3.6	9.2	6.7	5.9	6.2	6.3	8.2	23	166	41	26	17
4	2.8	8.8	6.8	6.0	6.3	6.7	7.8	28	146	51	27	17
5	3.1	9.0	7.0	5.7	6.3	6.5	7.9	24	134	46	30	16
6	4.1	9.0	6.7	5.6	6.1	7.4	6.3	28	110	46	31	16
7	4.5	9.2	6.3	5.7	6.5	7.2	6.9	32	90	45	31	17
8	4.4	9.8	5.7	5.7	6.3	6.5	7.6	51	84	43	28	17
9	4.2	9.0	5.3	6.3	6.8	6.4	7.8	99	83	41	26	19
10	4.5	6.9	4.8	5.8	6.7	6.2	7.9	75	75	39	26	18
11	5.7	4.4	5.0	5.7	6.8	6.4	7.9	85	65	36	26	16
12	6.6	5.6	5.8	5.4	6.7	46	6.8	117	57	34	25	15
13	6.6	6.4	5.9	5.4	7.1	15	4.4	120	47	32	25	14
14	6.1	6.6	6.0	5.4	7.7	9.7	2.0	102	43	32	25	13
15	6.4	6.1	5.8	5.8	10	6.9	1.7	93	39	28	25	14
16	6.7	6.4	5.7	5.7	9.8	5.0	2.1	93	38	26	25	14
17	6.0	6.5	6.0	5.4	6.9	4.6	2.3	100	43	26	24	14
18	5.2	6.0	6.2	5.2	6.6	4.3	3.2	97	48	28	23	15
19	4.8	5.6	6.3	5.1	6.6	5.2	2.1	83	42	29	23	13
20	5.4	5.8	6.8	5.0	6.6	3.7	4.6	78	37	28	23	11
21	5.7	5.8	6.2	4.8	6.9	5.7	3.5	80	36	28	23	11
22	5.7	5.8	6.0	4.6	6.9	7.8	1.8	78	33	28	21	11
23	5.7	5.6	5.8	4.6	6.8	4.7	1.6	76	31	27	20	12
24	5.7	5.8	6.0	4.8	6.9	5.3	1.7	76	30	27	21	12
25	6.4	6.0	6.4	5.0	7.3	4.5	1.4	75	32	26	23	12
26	6.4	6.2	6.8	5.2	7.2	4.8	1.9	71	31	27	21	12
27	6.4	5.7	6.6	5.1	6.8	3.6	1.6	72	29	26	20	12
28	6.4	5.2	6.4	5.1	6.8	3.3	1.6	80	30	25	20	12
29	6.4	5.4	6.2	5.2	---	5.5	1.7	85	30	25	19	20
30	6.3	5.6	6.2	5.2	---	9.1	3.2	131	33	26	18	23
31	6.0	---	6.0	5.2	---	8.4	---	186	---	26	17	---
TOTAL	166.2	200.1	189.6	167.3	196.1	234.8	133.3	2349.0	2077	1016	745	448
MEAN	5.36	6.67	6.12	5.40	7.00	7.57	4.44	75.8	69.2	32.8	24.0	14.9
MAX	6.7	9.8	7.0	6.3	10	46	8.2	186	210	51	31	23
MIN	2.8	4.4	4.8	4.6	6.1	3.3	1.4	4.1	29	25	17	11
AC-FT	330	397	376	332	389	466	264	4660	4120	2020	1480	889

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1995, BY WATER YEAR (WY)

	MEAN	9.23	10.6	9.37	8.52	9.13	15.5	38.9	65.4	29.1	16.9	15.9	10.1
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 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1975 - 1995

ANNUAL TOTAL	2594.9	7922.4	
ANNUAL MEAN	7.11	21.7	19.9
HIGHEST ANNUAL MEAN			55.0
LOWEST ANNUAL MEAN			5.02
HIGHEST DAILY MEAN	20	Mar 14	410
LOWEST DAILY MEAN	a1.0	May 15	.06
ANNUAL SEVEN-DAY MINIMUM	1.1	Aug 20	.06
INSTANTANEOUS PEAK FLOW			b520
INSTANTANEOUS PEAK STAGE			c7.01
ANNUAL RUNOFF (AC-FT)	5150	15710	14450
10 PERCENT EXCEEDS	13	51	41
50 PERCENT EXCEEDS	6.4	7.0	9.5
90 PERCENT EXCEEDS	2.0	4.6	3.5

a-Also occurred Aug 17, 24-26

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 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
NOV 15...	1050	4.9	1370	8.4	3.5	14.5	480	90	61	140
MAR 27...	1215	3.6	1190	8.5	11.5	11.8	410	78	52	120
MAY 09...	0915	109	753	8.0	6.5	9.0	230	49	27	78
AUG 29...	1125	20	1110	8.2	15.5	8.2	370	75	44	99

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
NOV 15...	3	2.7	398	290	20	0.7	15	862	1.17	11.3
MAR 27...	3	2.5	365	240	19	0.9	13	748	1.02	7.25
MAY 09...	2	3.3	247	150	12	0.4	10	481	0.65	142
AUG 29...	2	2.1	315	230	14	0.7	15	676	0.92	37.0

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHOPHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHOPHOS- PHORUS DIS- SOLVED (MG/L AS P)
NOV 15...	0.01	0.45	<0.02	0.2	0.02	<0.01
MAR 27...	0.01	0.46	0.03	0.3	<0.01	0.01
MAY 09...	<0.01	0.41	0.11	0.5	0.04	0.04
AUG 29...	0.01	1.20	<0.02	0.3	<0.01	0.02

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BORON, DIS- SOLVED (UG/L AS B)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 15...	--	--	190	--	--	--	--	--	--	2000	--
MAR 27...	--	--	190	--	--	--	--	--	--	1700	--
MAY 09...	2	70	90	<1	38	12	120	4	<1	730	<3
AUG 29...	2	97	170	<1	3	11	35	6	<1	1400	<3

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 04...	1355	3.5	1320	14.0	JUN 02...	1200	219	831	10.5
JAN 03...	1115	6.2	1280	0.5	JUL 12...	1000	36	1150	12.0
FEB 07...	1045	6.0	1240	5.5					

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 15...	1050	4.9	131	1.7	--
MAR 27...	1215	3.6	123	1.2	--
MAY 09...	0915	109	4160	1220	81
AUG 29...	1125	20	94	5.2	96

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°49'09", long 108°11'08", in SE¹/4NE¹/4 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 mi².

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 TEMPERATURES: 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 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
NOV 15...	0930	1.5	1440	8.1	5.0	11.4	560	96	76	120
MAR 27...	1100	1.9	1410	8.2	10.5	10.9	540	94	74	120
MAY 09...	1055	2.5	1390	8.3	11.5	9.2	540	94	74	130
AUG 29...	1305	0.1	1420	8.2	15.5	8.7	560	97	77	130

DATE	TIME	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
NOV 15...	2		1.3	304	390	9.3	0.2	15	900	1.22	3.64
MAR 27...	2		1.3	341	380	9.9	0.3	16	909	1.24	4.74
MAY 09...	2		1.4	377	390	9.2	0.3	15	948	1.29	6.27
AUG 29...	2		1.0	367	390	9.5	0.3	15	947	1.29	0.28

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)
NOV 15...	<0.01	1.50	<0.02	--	<0.2	0.01	<0.01	90	2900
MAR 27...	0.01	1.40	0.02	0.19	0.2	0.01	0.01	90	2900
MAY 09...	<0.01	1.20	0.02	--	<0.2	0.02	0.02	90	2900
AUG 29...	<0.01	0.95	<0.02	--	<0.2	<0.01	<0.01	100	2900

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO-Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAY 09...	1055	2.5	103	0.68	--
AUG 29...	1305	0.1	19	0.01	49

09306058 WILLOW CREEK NEAR RIO BLANCO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°50'14", long 108°14'37", in NW¹/4NE¹/4 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 mi².

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 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
NOV 15...	1230	0.45	1480	8.2	8.0	11.1	570	95	80	120
MAR 27...	1420	1.8	1440	8.5	11.5	8.7	570	100	77	120
MAY 09...	1300	0.92	1450	8.3	12.0	9.9	590	100	81	130
AUG 29...	1515	2.6	1370	8.3	19.5	9.9	560	98	75	120

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
NOV 15...	2	1.5	322	380	13	0.3	17	904	1.23	1.09
MAR 27...	2	2.5	317	360	11	0.4	17	882	1.20	4.24
MAY 09...	2	2.0	420	390	13	0.4	16	989	1.34	2.46
AUG 29...	2	1.5	362	370	12	0.4	17	914	1.24	6.47

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)
NOV 15...	<0.01	0.13	<0.02	--	<0.2	<0.01	<0.01	130	3600
MAR 27...	<0.01	0.11	0.02	0.48	0.5	<0.01	0.01	130	3200
MAY 09...	<0.01	0.17	0.02	0.18	0.2	0.02	0.02	130	3500
AUG 29...	<0.01	0.07	<0.02	--	<0.2	0.01	<0.01	130	3100

09306058 WILLOW CREEK NEAR RIO BLANCO CO--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
MAR 27...	1420	1.8	307	1.5	AUG 29...	1515	2.6	34	0.24
MAY 09...	1300	0.92	206	0.51					

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°5'16", long 108°7'49", in SE¹/₄NE¹/₄, sec.32, T.1 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank at downstream side of bridge, 40 ft downstream from Ryan Gulch, and 23 mi northwest of Rio Blanco.

DRAINAGE AREA.--506 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR CO-79-3: 1977 (M).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,070 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 22 to Jan. 29, and Aug. 10-30. Records good except for estimated daily discharges, which are poor. Diversions for irrigation upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	11	15	15	23	19	19	8.9	220	55	42	25
2	8.6	12	16	16	29	18	18	14	237	63	40	24
3	8.6	13	16	16	25	19	18	20	223	67	38	24
4	8.5	14	17	15	22	19	16	28	206	87	41	25
5	9.1	14	16	15	22	18	16	27	197	84	39	23
6	10	18	16	15	21	19	16	25	174	76	35	24
7	12	17	15	17	21	18	13	28	148	69	33	24
8	11	16	14	18	20	18	11	48	132	66	35	24
9	11	16	14	17	19	19	11	121	125	60	36	24
10	10	16	14	17	19	18	11	85	121	61	36	25
11	10	14	15	18	19	18	11	84	115	56	36	26
12	10	14	16	18	19	30	10	108	108	55	36	25
13	10	15	16	19	20	27	9.9	151	85	59	36	25
14	10	15	16	19	21	21	9.7	125	68	54	36	24
15	10	16	16	18	20	19	9.5	114	56	52	36	23
16	12	16	16	18	20	17	10	103	52	49	34	24
17	11	16	15	18	20	16	11	106	60	58	33	24
18	10	15	15	18	20	16	10	118	85	59	32	28
19	10	16	14	18	20	17	9.9	108	72	56	32	30
20	10	16	14	18	20	17	9.6	98	65	57	32	26
21	10	16	14	18	21	16	9.5	92	58	59	31	24
22	10	15	14	18	21	18	9.2	93	55	57	29	26
23	10	15	14	17	20	17	9.4	92	54	52	29	30
24	10	14	14	17	19	17	9.7	94	52	49	31	29
25	9.9	14	14	17	20	16	9.1	91	53	49	31	29
26	11	15	14	17	20	17	11	91	53	47	29	29
27	12	16	14	17	19	17	9.0	87	49	46	27	29
28	11	15	15	18	19	16	8.4	89	48	46	25	27
29	10	14	15	18	---	17	9.3	102	50	46	25	31
30	10	14	15	19	---	18	9.3	112	51	45	25	38
31	11	---	15	21	---	19	---	196	---	43	25	---
TOTAL	314.9	448	464	540	579	571	343.5	2658.9	3072	1782	1025	789
MEAN	10.2	14.9	15.0	17.4	20.7	18.4	11.4	85.8	102	57.5	33.1	26.3
MAX	12	18	17	21	29	30	19	196	237	87	42	38
MIN	8.2	11	14	15	19	16	8.4	8.9	48	43	25	23
AC-FT	625	889	920	1070	1150	1130	681	5270	6090	3530	2030	1560

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1995, BY WATER YEAR (WY)

	MEAN	21.5	26.3	24.3	21.9	24.9	33.6	43.1	64.4	32.7	23.9	30.1	21.2
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1965 - 1995

ANNUAL TOTAL	5881.6	12587.3		
ANNUAL MEAN	16.1	34.5		
HIGHEST ANNUAL MEAN			30.7	
LOWEST ANNUAL MEAN			96.5	1985
HIGHEST DAILY MEAN	65	Feb 26	237	Jun 2
LOWEST DAILY MEAN	2.0	Aug 12	8.2	Oct 1
ANNUAL SEVEN-DAY MINIMUM	2.2	Aug 10	9.3	Oct 1
INSTANTANEOUS PEAK FLOW			239	Jun 2
INSTANTANEOUS PEAK STAGE			6.46	Jun 2
ANNUAL RUNOFF (AC-FT)	11670	24970		
10 PERCENT EXCEEDS	32	85		
50 PERCENT EXCEEDS	14	19		
90 PERCENT EXCEEDS	4.0	10		

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 September 1982, November 1985 to current year.

REMARKS.--Unpublished maximum and minimum specific conductance data for the periods of daily record are available in the district office. Daily specific conductance records rated fair. Periods of missing or deleted record are due to instrument malfunction or sensor fouling. Daily water temperatures rated fair.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum 2,920 microsiemens, July 18, 1981; minimum, 450 microsiemens, July 15, 1992.

WATER TEMPERATURES: Maximum 28.0°C Sept. 4, 1990, minimum, 0.0°C many days during the winter period.

SEDIMENT CONCENTRATIONS: 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 recorded(more than 24 percent missing record), 1,900 microsiemens, Oct. 4, 5; minimum, 521 microsiemens, June 2.

WATER TEMPERATURES: Maximum recorded(more than 15 percent missing record)20.5°C, July 29, Aug. 8; minimum, 0.0°C, many days during the winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CAO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
NOV 14...	1300	13	1780	8.3	4.0	12.8	620	90	95	200
MAR 29...	1205	17	1480	8.6	3.0	10.8	550	87	80	150
MAY 09...	1430	126	872	8.2	10.5	9.3	270	47	37	96
AUG 30...	1115	24	1500	8.3	16.0	9.8	470	77	66	150

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CAO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
NOV 14...	4	3.2	489	470	20	0.6	17	1190	1.62	43.2
MAR 29...	3	2.3	422	390	16	0.6	16	998	1.36	45.8
MAY 09...	3	3.3	273	200	13	0.5	11	575	0.78	196
AUG 30...	3	2.5	396	340	16	0.7	17	912	1.24	61.8

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)
NOV 14...	<0.01	0.31	0.04	0.3	0.02	0.02	--
MAY 09...	0.02	0.43	0.18	0.7	0.02	0.02	6.8
AUG 30...	<0.01	0.64	<0.02	0.3	0.03	0.03	4.4

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BORON, DIS- SOLVED (UG/L AS B)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 14...	--	--	210	--	--	--	--	--	--	3400	--
MAR 29...	--	--	160	--	--	--	--	--	--	3200	--
MAY 09...	2	60	100	1	28	7	91	7	1	1300	5
AUG 30...	2	80	220	<1	4	13	40	6	<1	2400	<3

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 04...	1110	8.6	1840	10.0	FEB 08...	1300	19	1450	4.0
JAN 03...	1345	17	1520	0.0	JUL 12...	1100	53	1530	16.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
NOV 14...	1300	13	146	5.3	MAY 09...	1430	126	4400	1500
MAR 29..	1205	17	271	12	AUG 30...	1115	24	117	7.5

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1820	1600	1310	1470	---	1350	1430	1760	542	1540	1400	---
2	1810	1620	1310	1550	---	1350	1430	1660	535	1540	1400	---
3	1820	1610	1300	1520	---	1350	1430	1610	548	1550	1410	---
4	1850	1610	1310	1510	---	1350	1440	1640	565	1470	1430	---
5	1880	1620	1320	1420	---	1350	1430	1650	576	1460	1430	---
6	1820	1630	1310	1380	---	1350	1430	1650	596	1500	1410	---
7	1790	1620	1300	1410	---	1340	1500	1650	633	1500	1420	---
8	1790	1610	1310	---	---	1350	1550	1570	669	1510	1430	---
9	1790	1600	1360	---	1540	1350	1570	---	710	1520	1400	---
10	1770	1620	1420	---	1530	1350	1570	---	748	1530	1370	---
11	1770	1640	1400	---	1510	1370	1580	---	770	1530	---	---
12	1720	1650	1370	---	1490	1300	1600	---	796	1540	---	---
13	1700	1630	1340	---	1480	1130	1620	---	853	1540	---	---
14	1680	1680	1330	---	1490	1310	1640	---	903	1510	---	---
15	1650	1680	1360	---	1430	1400	1630	---	979	1530	---	---
16	1600	1590	1380	---	1460	1430	1600	---	1010	1540	---	---
17	1630	1540	1380	---	1410	1460	1620	1030	1000	1540	---	---
18	1630	1540	1380	---	1360	1460	1620	680	993	1520	---	---
19	1640	1500	1380	---	1340	1460	1650	646	1050	1460	---	---
20	1640	1510	1400	---	1340	1460	1630	646	1100	1490	---	---
21	1640	1460	1420	---	1340	1390	1640	637	1160	1480	---	---
22	1630	1420	1420	---	1330	1350	1630	630	1420	1460	---	---
23	1630	1390	1390	---	1340	1330	1630	628	1520	1450	---	---
24	1620	1360	1380	---	1350	1340	1610	620	1520	1440	---	---
25	1590	1330	1380	---	1350	1360	1670	624	1430	1450	---	---
26	1590	1320	1380	---	1350	1420	1630	644	1500	1420	---	---
27	1570	1340	1400	---	1350	1470	1710	651	1530	1410	---	---
28	1580	1330	1410	---	1360	1490	1730	638	1540	1420	---	---
29	1590	1340	1420	---	---	1500	1710	609	1590	1420	---	---
30	1590	1320	1420	---	---	1470	1720	602	1560	1400	---	---
31	1620	---	1420	---	---	1450	---	544	---	1390	---	---

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
1	11.5	8.2	6.5	3.1	5.3	.0	.0	.0	7.1	2.0	6.7	2.7
2	12.6	8.0	6.4	4.9	4.8	.0	.0	.0	7.1	2.6	5.7	.5
3	11.7	9.1	5.4	2.8	4.8	.7	.0	.0	6.0	.5	7.2	1.8
4	13.5	8.0	5.4	.9	5.5	3.0	.0	.0	6.7	.5	9.2	2.1
5	10.7	8.3	6.1	3.0	5.0	3.8	.0	.0	5.6	.9	6.8	2.4
6	9.0	7.6	8.2	3.2	5.3	2.6	.0	.0	6.5	.9	7.7	.4
7	12.3	7.8	8.6	4.2	3.4	1.1	.0	.0	7.1	1.5	6.2	.0
8	13.7	7.4	7.8	5.4	2.5	.0	3.0	.0	4.7	2.3	6.4	.0
9	13.4	5.8	7.5	3.7	.0	.0	5.3	2.5	5.6	2.9	8.7	.0
10	13.4	5.9	7.1	2.5	.0	.0	5.3	1.4	6.5	2.0	10.5	1.5
11	13.2	6.0	7.3	3.2	.0	.0	3.9	2.0	3.1	.1	9.1	4.8
12	13.5	6.2	7.4	6.1	.0	.0	4.2	.1	1.4	.0	6.1	3.2
13	12.1	6.2	6.5	3.2	2.1	.0	5.3	1.3	4.4	.0	7.1	.3
14	10.3	6.7	3.7	.0	3.1	.0	6.6	3.3	5.8	.3	10.8	1.0
15	10.8	7.9	2.9	.0	1.0	.0	5.4	2.2	2.4	.0	10.3	3.0
16	9.6	6.2	5.6	.9	.7	.0	3.5	.3	4.0	.0	12.2	3.4
17	6.8	4.2	5.3	1.6	1.8	.0	2.0	.0	6.0	.0	11.4	4.3
18	7.9	5.6	5.5	.6	1.8	.0	.3	.0	7.0	.7	10.5	3.2
19	9.5	4.9	4.7	1.0	2.6	.0	.8	.0	7.3	.0	10.3	4.2
20	7.9	4.3	3.7	.0	.4	.0	2.9	.0	8.3	.2	9.3	2.1
21	10.8	4.0	4.8	2.1	.3	.0	1.0	.0	8.2	.6	8.2	5.0
22	10.9	4.5	5.0	.1	.1	.0	.1	.0	8.5	.7	8.7	3.2
23	10.5	4.2	1.4	.0	1.6	.0	.0	.0	8.4	.4	9.7	.3
24	10.0	3.8	4.3	.0	4.3	1.3	.0	.0	8.9	.6	6.3	1.3
25	9.6	3.3	5.4	.6	5.6	2.7	.0	.0	7.3	.9	4.2	.7
26	9.4	3.2	3.0	.1	4.8	3.5	2.5	.0	8.8	2.1	7.1	.0
27	8.5	6.0	1.2	.0	4.4	2.9	4.8	2.2	7.6	2.0	8.4	.9
28	10.7	4.9	2.5	.0	4.4	2.0	4.6	.9	8.4	3.1	6.7	.0
29	8.6	5.1	.1	.0	3.3	1.4	2.7	.0	---	---	---	---
30	7.8	3.9	4.7	.0	3.4	1.9	1.2	.0	---	---	8.1	.0
31	6.8	1.1	---	---	2.2	.0	5.0	.0	---	---	10.1	.0
MONTH	13.7	1.1	8.6	.0	5.6	.0	6.6	.0	8.9	.0	---	---

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
1	13.0	1.3	12.5	3.5	13.9	9.8	14.4	11.0	19.5	10.6	---	---
2	12.2	3.0	9.3	6.3	13.4	10.0	14.5	10.6	18.4	10.8	---	---
3	13.7	2.3	14.4	4.9	12.9	9.7	13.7	10.8	18.3	11.9	---	---
4	14.8	3.2	13.9	4.8	12.7	9.8	15.3	9.7	18.0	12.6	---	---
5	15.1	4.5	11.0	7.0	15.5	9.8	18.3	10.4	19.5	11.9	---	---
6	13.9	4.5	13.0	5.1	14.9	11.0	19.3	11.5	19.7	12.0	---	---
7	15.2	4.7	8.8	6.1	13.7	9.1	19.3	11.9	18.2	12.3	---	---
8	12.9	5.9	8.5	5.9	13.9	10.1	18.0	12.1	20.5	12.7	---	---
9	8.3	3.3	10.8	6.3	11.9	8.7	19.7	11.9	19.1	11.9	---	---
10	8.4	.6	12.1	7.4	14.3	7.8	19.4	12.9	18.6	13.5	---	---
11	12.2	2.0	10.7	8.1	17.1	9.2	20.2	12.4	---	---	---	---
12	16.9	4.3	---	---	17.9	10.8	19.2	12.1	---	---	---	---
13	14.2	5.0	---	---	18.6	11.8	17.1	12.2	---	---	---	---
14	9.0	4.3	---	---	18.7	11.2	16.8	12.3	---	---	---	---
15	11.1	2.8	---	---	18.4	12.7	18.6	10.5	---	---	---	---
16	13.9	.3	---	---	16.8	11.1	19.7	11.2	---	---	---	---
17	9.6	3.4	12.0	9.2	13.7	9.7	16.5	11.6	---	---	---	---
18	12.4	.9	12.4	7.3	16.1	8.2	15.7	12.1	---	---	---	---
19	12.4	5.5	14.7	8.6	17.3	9.7	18.6	12.1	---	---	---	---
20	11.4	4.6	14.4	10.4	17.6	9.8	18.4	12.2	---	---	---	---
21	9.4	3.5	13.2	9.3	17.3	10.1	17.5	11.0	---	---	---	---
22	12.2	4.0	15.2	9.5	17.7	9.8	17.6	11.0	---	---	---	---
23	9.3	4.2	13.9	10.2	17.9	9.8	18.4	11.0	---	---	---	---
24	14.5	2.3	11.6	8.6	18.1	10.2	19.2	11.1	---	---	---	---
25	11.2	4.3	12.5	8.3	18.7	10.1	19.9	11.2	---	---	---	---
26	16.2	2.7	12.9	8.0	19.2	10.5	19.6	11.5	---	---	---	---
27	14.5	4.6	14.0	8.6	17.0	10.8	20.0	11.1	---	---	---	---
28	11.2	5.2	11.8	7.6	17.5	11.9	19.3	11.6	---	---	---	---
29	11.9	4.4	11.6	7.6	19.1	11.3	20.5	11.9	---	---	---	---
30	12.5	6.7	10.7	8.6	15.1	11.6	18.6	14.4	---	---	---	---
31	---	---	13.8	8.0	---	---	19.6	11.8	---	---	---	---
MONTH	16.9	.3	---	---	19.2	7.8	20.5	9.7	---	---	---	---

09306222 PICEANCE CREEK AT WHITE RIVER, CO

LOCATION.--Lat 40°04'14", long 108°14'09", in SE¹/₄SE¹/₄ sec.2, T.1 N., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on downstream side of box culvert on county highway, 1.0 mi southwest of White River City, 1.3 mi upstream from mouth, and 17 mi west of Meeker.

DRAINAGE AREA.--652 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1964 to September 1966, October 1970 to current year.

REVISED RECORDS.--WDR CO-82-3: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,730 ft above sea level, from topographic map. Oct. 1, 1964 to Sept. 30, 1966, Oct. 1, 1970 to July 12, 1974, at several sites 0.1 mi upstream at different datums, and Oct. 1, 1987 to Nov. 18, 1994, at site 1.0 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Nov. 23 to Feb. 7, and May 25 to July 12. Records good except those 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	11	19	19	33	23	15	8.5	240	86	51	29
2	5.2	11	20	20	38	23	14	9.7	260	92	49	28
3	4.3	12	21	20	35	23	14	14	245	97	48	27
4	5.4	14	20	20	30	23	14	23	220	86	45	26
5	5.9	13	20	19	33	23	14	27	190	79	44	26
6	7.2	14	19	20	32	24	14	24	180	69	47	28
7	9.6	16	19	22	26	22	12	24	175	65	43	28
8	9.2	17	19	21	25	22	12	49	170	61	39	28
9	9.0	18	19	21	24	18	11	100	160	60	39	29
10	9.0	20	20	21	24	18	11	87	150	58	41	30
11	9.9	19	21	22	24	19	9.3	88	135	56	46	30
12	11	17	21	22	25	29	8.8	117	120	56	47	32
13	11	17	21	23	24	35	6.1	141	105	56	44	29
14	11	16	21	22	27	25	5.8	128	97	59	42	30
15	11	12	20	21	25	23	6.0	119	88	61	44	29
16	13	23	20	21	26	21	6.9	111	100	61	43	29
17	13	21	19	22	27	19	7.0	114	115	60	42	27
18	14	21	19	22	25	16	7.4	121	105	60	40	31
19	14	22	19	22	25	17	6.9	113	96	61	40	33
20	13	24	18	22	25	17	7.1	104	88	60	40	30
21	13	25	18	22	25	16	6.6	99	81	60	42	28
22	13	22	18	22	26	17	6.6	101	78	60	38	29
23	13	19	18	22	25	17	6.2	105	77	60	34	33
24	13	18	19	22	24	17	6.6	109	74	60	35	32
25	12	18	19	22	24	17	6.6	105	74	60	34	31
26	12	20	20	23	24	16	8.0	100	71	60	36	31
27	13	19	20	23	24	15	7.6	98	68	60	33	31
28	13	18	20	24	23	14	7.4	100	64	59	31	31
29	12	18	19	24	---	14	7.4	115	66	54	26	41
30	12	18	19	25	---	14	9.1	150	75	52	25	44
31	12	---	19	28	---	15	---	215	---	53	27	---
TOTAL	327.7	533	604	679	748	612	274.4	2819.2	3767	1981	1235	910
MEAN	10.6	17.8	19.5	21.9	26.7	19.7	9.15	90.9	126	63.9	39.8	30.3
MAX	14	25	21	28	38	35	15	215	260	97	51	44
MIN	4.0	11	18	19	23	14	5.8	8.5	64	52	25	26
AC-FT	650	1060	1200	1350	1480	1210	544	5590	7470	3930	2450	1800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1995, BY WATER YEAR (WY)

MEAN	27.8	33.6	29.3	26.6	30.7	45.5	55.8	77.2	40.5	28.7	33.7	24.6
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1965 - 1995

ANNUAL TOTAL	6334.20	14490.3	
ANNUAL MEAN	17.4	39.7	37.9
HIGHEST ANNUAL MEAN			109
LOWEST ANNUAL MEAN			12.5
HIGHEST DAILY MEAN	a78	Feb 26	b260 Jun 2
LOWEST DAILY MEAN	.80	May 16	c.50 Oct 1
ANNUAL SEVEN-DAY MINIMUM	1.1	May 14	d5.9 Oct 1
INSTANTANEOUS PEAK FLOW			e271 Jun 2
INSTANTANEOUS PEAK STAGE			d5.09 Jun 2
ANNUAL RUNOFF (AC-FT)	12560	28740	e628 Sep 7 1978
10 PERCENT EXCEEDS	39	98	7.04 Sep 7 1978
50 PERCENT EXCEEDS	13	24	
90 PERCENT EXCEEDS	1.5	11	3.8

a-Estimated during period of backwater from ice.

b-Estimated during period of no gage-height record.

c-Also occurred Jul 22, 1966.

d-Based on partial record, Jun 2. May have been higher during period of no gage-height record, May 25 to Jul 12.

e-On basis of slope-area measurement of peak flow.

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1970 to July 1986, March 1987, March 1990 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1971 to June 1974, May 1975 to September 1983.

WATER TEMPERATURES: 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 TEMPERATURES: Maximum, 32.0°C, July 14, 1978; minimum, 0.0°C, many days during winter months.

SEDIMENT CONCENTRATIONS: 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 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
NOV 18...	1300	22	2260	8.5	1.0	12.1	620	81	100	360
MAR 28...	1445	14	2360	8.6	9.0	9.6	500	62	83	420
MAY 10...	0855	82	1410	8.3	9.0	8.6	370	55	57	200
AUG 30...	1300	24	1900	8.6	21.5	9.7	410	53	67	270

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
NOV 18...	6	3.3	736	470	48	1.1	14	1520	2.07	88.8
MAR 28...	8	3.0	809	440	58	1.2	16	1570	2.14	58.1
MAY 10...	5	3.7	488	300	26	0.8	13	952	1.30	212
AUG 30...	6	2.9	599	390	36	1.0	16	1200	1.63	78.4

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)
MAY 10...	0.03	0.40	0.15	0.6	0.04	0.03	8.4
AUG 30...	<0.01	0.44	<0.02	0.3	0.03	0.03	5.2

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

WATER-QUALITY DATA, OCTOBER 1994 TO SEPTEMBER 1995

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BORON, DIS- SOLVED (UG/L AS B)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 18...	--	--	290	--	--	--	--	--	--	3200	--
MAR 28...	--	--	310	--	--	--	--	--	--	3000	--
MAY 10...	2	75	190	1	15	17	18	7	2	1800	<3
AUG 30...	3	83	280	<1	4	25	3	8	<1	2200	5

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 03...	1630	4.7	3450	10.0	JUN 02...	1450	258	1080	14.5
JAN 04...	1300	20	2270	0.0	JUL 12...	1445	56	1770	21.0
FEB 08...	0925	27	2060	2.0					
24...	1200	23	2130	6.5					

SUSPENDED SEDIMENT DISCHARGE, WATER YEARS OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 28...	1445	14	254	9.4	--
MAY 10...	0855	82	2300	511	84
AUG 30...	1300	24	121	7.9	92

09306242 CORRAL GULCH NEAR RANGELY, CO

LOCATION.--Lat 39°55'13", long 108°28'20", in SE¹/4NW¹/4 sec.35, T.1 S., R.99 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 5 ft downstream from Boxelder Creek, and 3.5 mi upstream from confluence with Stake Springs Draw, and 21 mi southeast of Rangely.

DRAINAGE AREA.--31.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1974 to current year.

GAGE.--Water-stage recorder. Concrete control since July 20, 1974. Elevation of gage is 6,580 ft above sea level, from topographic map.

REMARKS.-- Estimated daily discharges, Nov. 17 to Jan. 3, Feb. 10-18, and June 22 to July 11. Records good except those for estimated daily discharges, which are poor. No diversions upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.52	.52	.43	.35	.45	.41	.45	.50	13	2.9	1.6	1.6
2	.52	.53	.45	.35	.48	.41	.43	.54	14	2.8	1.6	1.6
3	.50	.54	.47	.35	.48	.41	.45	.53	14	2.7	1.6	1.6
4	.48	.53	.47	.39	.46	.43	.43	.50	14	2.7	1.7	1.5
5	.51	.53	.47	.41	.43	.44	.43	.65	13	2.5	1.6	1.6
6	.58	.54	.46	.42	.44	.44	.43	1.5	13	2.3	1.6	1.5
7	.53	.53	.45	.44	.41	.44	.43	2.2	12	2.3	1.6	1.6
8	.54	.52	.41	.42	.37	.43	.45	3.1	12	2.3	1.6	1.6
9	.54	.51	.39	.38	.38	.43	.43	3.2	11	2.2	1.6	1.6
10	.55	.51	.35	.38	.34	.43	.43	3.8	10	2.2	1.6	1.7
11	.56	.51	.35	.36	.33	.43	.43	5.0	9.4	2.2	1.8	1.6
12	.56	.54	.37	.35	.32	.41	.43	8.1	8.8	2.3	1.7	1.6
13	.56	.51	.39	.33	.28	.41	.43	11	8.2	2.4	1.7	1.5
14	.58	.50	.38	.34	.29	.41	.45	12	7.9	2.5	1.7	1.5
15	.58	.50	.37	.36	.30	.41	.43	12	7.4	2.4	1.6	1.5
16	.61	.50	.36	.36	.32	.41	.44	12	7.0	2.2	1.6	1.5
17	.54	.45	.36	.37	.34	.41	.47	13	8.5	2.2	1.5	1.5
18	.53	.48	.36	.37	.35	.41	.47	11	6.9	2.2	1.5	1.6
19	.52	.47	.39	.36	.35	.42	.45	11	6.3	2.1	1.5	1.4
20	.51	.45	.37	.36	.39	.41	.46	11	6.1	2.0	1.5	1.4
21	.52	.45	.35	.38	.43	.43	.48	11	5.7	2.0	5.0	1.4
22	.52	.43	.35	.38	.43	.43	.48	9.9	5.0	1.9	2.8	1.4
23	.53	.42	.34	.38	.41	.43	.46	9.8	4.7	1.9	2.1	1.4
24	.54	.42	.33	.38	.41	.43	.48	9.5	4.2	1.9	2.0	1.4
25	.51	.44	.33	.38	.41	.43	.49	9.6	3.5	1.9	1.9	1.3
26	.52	.47	.34	.40	.41	.43	.48	9.1	3.3	1.8	1.9	1.3
27	.53	.45	.35	.41	.41	.41	.48	9.2	3.1	1.8	1.9	1.3
28	.54	.42	.37	.43	.41	.39	.48	8.9	3.0	1.8	1.7	1.3
29	.54	.42	.37	.43	---	.41	.48	9.2	2.9	1.6	1.7	2.6
30	.54	.42	.37	.42	---	.45	.51	11	3.0	1.6	1.6	1.6
31	.51	---	.37	.41	---	.44	---	11	---	1.6	1.6	---
TOTAL	16.62	14.51	11.92	11.85	10.83	13.08	13.64	230.82	240.9	67.2	56.4	46.0
MEAN	.54	.48	.38	.38	.39	.42	.45	7.45	8.03	2.17	1.82	1.53
MAX	.61	.54	.47	.44	.48	.45	.51	13	14	2.9	5.0	2.6
MIN	.48	.42	.33	.33	.28	.39	.43	.50	2.9	1.6	1.5	1.3
AC-FT	33	29	24	24	21	26	27	458	478	133	112	91

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1995, BY WATER YEAR (WY)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
MEAN	1.07	.87	.80	.77	.83	1.18	2.48	7.56	4.77	2.00	1.54	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 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1974 - 1995

ANNUAL TOTAL	186.32	733.77	
ANNUAL MEAN	.51	2.01	2.17
HIGHEST ANNUAL MEAN			7.75
LOWEST ANNUAL MEAN			.27
HIGHEST DAILY MEAN	b.79	Feb 26	a.14
LOWEST DAILY MEAN	.25	Sep 3	.28
ANNUAL SEVEN-DAY MINIMUM	.27	Sep 2	.31
INSTANTANEOUS PEAK FLOW			111
INSTANTANEOUS PEAK STAGE			3.40
ANNUAL RUNOFF (AC-FT)	370	1460	1570
10 PERCENT EXCEEDS	.67	7.2	4.1
50 PERCENT EXCEEDS	.53	.52	.80
90 PERCENT EXCEEDS	.33	.37	.30

a-Also occurred Jun 3, 4.

b-Also occurred Sep 4.

c-Also occurred Apr 11-14, 1974.

d-From rating curve extended above 70 ft³/s, on basis of slope-area measurements at gage heights, 3.89 ft, 4.08 ft, and 6.12 ft.

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1975 to September 1989.

WATER TEMPERATURE: January 1975 to September 1989.

SUSPENDED-SEDIMENT DISCHARGE: October 1974 to September 1985.

INSTRUMENTATION.--Water-quality monitor October 1974 to August 1989. Pumping sediment sampler October 1974 to September 1985.

REMARKS.--Unpublished maximum and minimum specific conductance data for period of daily record available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 3,000 microsiemens, July 17, 1976; minimum, 271 microsiemens, Feb. 18, 1980.

WATER TEMPERATURES: 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, August 18, 1984; minimum daily, 0.00 ton, on many days during 1981.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
NOV 14...	1505	0.51	1580	7.6	6.5	7.3	610	110	81	120
MAR 29...	0905	0.39	1480	7.9	8.0	9.0	610	110	81	130
MAY 08...	1230	3.2	1060	8.1	9.5	8.2	460	89	57	74

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINIT LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
NOV 14...	2	1.3	395	400	13	0.4	23	988	1.34	1.35
MAR 29...	2	1.2	395	400	15	0.4	23	1000	1.36	1.0
MAY 08...	2	1.3	341	250	8.6	0.3	20	711	0.97	6.05

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	BORON, DIS- SOLVED (UG/L AS B)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)
NOV 14...	--	--	--	--	--	--	--	120	2700
MAR 29...	<0.01	0.11	<0.02	<0.2	<0.01	0.02	4.6	130	2700
MAY 08...	<0.01	1.10	<0.02	0.4	0.02	0.01	8.3	70	1600

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 04...	0930	0.52	1520	9.0	JUL 11...	1650	2.2	1310	20.5
JAN 03...	1535	0.36	1550	7.5	AUG 08...	1150	1.6	1380	17.0
FEB 07...	1415	0.41	1540	9.0	29...	1710	1.6	1340	19.5

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 29...	0905	0.37	142	0.14	--
MAY 08...	1230	3.2	522	4.4	95

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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to September 1982, May 1988 to current year.

GAGE.--Water-stage recorder and v-notch concrete control. Elevation of gage is 5,535 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 4 to Jan. 23. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	1.6	1.4	2.1	2.4	2.2	1.6	2.2	2.7	2.4	1.4	1.4
2	2.0	1.5	1.5	2.0	4.0	2.2	1.8	3.1	2.6	2.6	1.5	1.6
3	1.8	1.4	1.7	2.0	6.1	2.1	1.8	2.5	2.6	2.8	1.4	1.4
4	1.7	1.4	1.8	2.0	3.6	2.1	1.8	2.2	3.5	2.9	1.5	1.4
5	1.7	1.4	1.8	2.0	3.0	2.1	1.8	2.1	2.9	2.4	1.4	1.4
6	1.6	1.6	2.0	1.9	2.8	2.1	1.8	1.6	2.6	2.2	1.4	1.7
7	1.5	1.7	1.8	2.0	2.7	1.7	1.7	1.6	2.5	2.1	1.3	1.5
8	1.5	1.6	1.8	2.0	2.5	1.9	1.8	3.8	2.6	2.0	1.2	1.6
9	1.5	1.5	1.7	2.2	2.7	2.1	1.9	2.5	2.7	1.9	1.2	1.7
10	1.6	1.6	1.5	2.1	2.3	2.1	1.8	2.0	2.7	1.7	1.4	2.9
11	1.7	1.6	1.7	2.1	2.1	2.1	1.8	2.3	2.5	1.5	1.8	2.0
12	1.7	1.5	1.8	2.1	2.0	2.0	1.8	4.2	2.4	1.4	2.1	1.7
13	1.7	1.3	1.8	2.2	2.6	2.0	1.7	2.5	2.4	2.1	1.7	1.6
14	1.8	1.3	1.8	2.3	3.1	2.0	1.7	2.4	2.4	2.6	1.6	1.5
15	2.0	1.3	1.7	2.2	2.5	2.0	1.7	1.9	2.3	2.1	1.6	1.6
16	1.9	1.3	1.6	2.2	3.6	2.0	1.7	2.0	2.3	2.0	1.5	1.4
17	2.0	1.4	1.7	2.2	6.9	2.0	2.0	1.9	3.8	2.1	1.5	1.5
18	1.9	1.4	1.8	2.4	2.4	1.9	2.0	2.0	3.8	2.2	1.5	1.7
19	1.8	1.4	1.9	2.6	2.7	2.0	1.8	2.1	2.9	2.3	1.6	3.0
20	1.7	1.4	2.0	2.4	2.9	2.1	2.1	2.1	2.7	2.3	1.7	1.8
21	1.7	1.5	1.9	2.3	2.8	1.9	1.8	2.0	2.6	2.2	1.8	1.7
22	1.7	1.4	1.8	2.2	2.7	1.9	1.9	2.1	2.5	2.1	2.4	1.8
23	1.7	1.4	1.8	2.1	2.5	1.8	2.0	2.1	2.5	2.1	2.2	1.7
24	1.8	1.4	2.1	2.1	2.5	1.7	2.1	2.3	2.6	1.9	2.1	1.7
25	1.7	1.4	2.3	2.3	2.5	1.7	2.3	2.4	2.6	1.7	1.8	1.7
26	1.7	1.4	2.3	2.4	2.5	1.8	2.8	3.2	2.5	1.7	1.7	1.8
27	1.7	1.5	2.3	2.3	2.4	3.2	2.2	3.1	2.5	1.6	1.7	1.8
28	1.7	1.6	2.3	2.2	2.3	8.3	2.1	2.5	2.5	1.5	1.7	2.0
29	1.8	1.4	2.3	2.1	---	1.9	2.0	2.3	2.5	1.6	1.6	8.2
30	1.7	1.3	2.2	2.2	---	2.0	3.0	3.3	2.3	1.6	1.6	3.2
31	1.6	---	2.2	2.3	---	1.5	---	3.1	---	1.6	1.4	---
TOTAL	53.9	43.5	58.3	67.5	83.1	68.4	58.3	75.4	80.0	63.2	50.3	60.0
MEAN	1.74	1.45	1.88	2.18	2.97	2.21	1.94	2.43	2.67	2.04	1.62	2.00
MAX	2.0	1.7	2.3	2.6	6.9	8.3	3.0	4.2	3.8	2.9	2.4	8.2
MIN	1.5	1.3	1.4	1.9	2.0	1.5	1.6	1.6	2.3	1.4	1.2	1.4
AC-FT	107	86	116	134	165	136	116	150	159	125	100	119

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1995, BY WATER YEAR (WY)

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	1.99	2.30	2.02	1.91	4.08	3.67	2.61	4.17	3.14	2.84	1.96	2.81											
MAX	5.30	5.94	4.76	4.63	12.7	8.92	5.24	24.1	19.9	18.5	6.16	17.1											
(WY)	1989	1989	1989	1990	1980	1993	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1973 - 1995

ANNUAL TOTAL	993.98	761.9	
ANNUAL MEAN	2.72	2.09	2.42
HIGHEST ANNUAL MEAN			4.80
LOWEST ANNUAL MEAN			1.28
HIGHEST DAILY MEAN	116	Feb 27	500
LOWEST DAILY MEAN	.98	Aug 7	b .00
ANNUAL SEVEN-DAY MINIMUM	1.1	Jul 26	.00
INSTANTANEOUS PEAK FLOW			c 6800
INSTANTANEOUS PEAK STAGE			12.97
ANNUAL RUNOFF (AC-FT)	1970	1510	1750
10 PERCENT EXCEEDS	3.0	2.7	4.5
50 PERCENT EXCEEDS	1.8	2.0	2.0
90 PERCENT EXCEEDS	1.2	1.5	.80

a-Also occurred Aug 9.

b-Also occurred Sep 12-16, 1978, and Dec 15, 1978 to Jan 14, 1979.

c-On basis of contracted-opening, and flow-over-road measurement of peak flow.

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 TEMPERATURES: 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. 07, 1978; minimum daily, no flow several days during Sept. 1978, many days during 1979.

SEDIMENT LOADS: Maximum daily, 290,000 tons, Sept. 07, 1978; minimum daily, no flow several days during Sept. 1978, many days during 1979.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
NOV 15...	1430	1.3	3740	8.5	0.0	14.2	800	53	160	730
MAR 28...	1250	2.1	3530	8.7	8.5	12.3	830	50	170	680
MAY 10...	1125	2.1	3770	8.5	16.0	10.8	820	48	170	710
AUG 30...	1530	1.5	3480	8.8	26.0	12.1	680	23	150	680

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
NOV 15...	11	3.7	1170	860	100	1.7	13	2630	3.57	8.94
MAR 28...	10	3.5	1110	880	99	1.6	13	2570	3.49	14.4
MAY 10...	11	3.9	1210	920	100	1.7	12	2700	3.67	15.0
AUG 30...	11	3.2	1200	700	110	1.9	9.9	2410	3.28	9.57

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
MAY 10...	0.04	0.7	0.03	0.6	0.02	0.01	10
AUG 30...	0.11	2.2	<0.02	0.4	0.02	0.02	9.2

09306255 YELLOW CREEK NEAR WHITE RIVER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BORON, DIS- SOLVED (UG/L AS B)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 15...	--	--	590	--	--	--	--	--	--	4500	--
MAR 28...	--	--	590	--	--	--	--	--	--	5000	--
MAY 10...	5	<100	620	1	20	120	10	25	1	4200	<10
AUG 30...	6	100	620	<1	<10	140	<10	26	1	3700	<10

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 03...	1515	1.9	3750	13.0	MAY 08...	1450	2.9	3610	10.0
JAN 04...	1215	2.1	3650	0.0	JUN 20...	1300	2.8	3970	20.0
FEB 08...	0825	2.3	3400	2.0	JUL 11...	1430	1.5	3860	26.5
24...	1055	2.5	3640	4.5					

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
MAR 28...	1250	2.1	155	0.87	AUG 30...	1530	1.5	87	0.35
MAY 10...	1125	2.1	153	0.85					

09306290 WHITE RIVER BELOW BOISE CREEK, NEAR RANGELY, CO

LOCATION.--Lat 40°10'47", long 108°33'53", in SW¹/4SE¹/4 sec.36, T.3 N., R.100 W., Rio Blanco County, Hydrologic Unit 14050007, on left bank at bridge on County Road 73, 0.5 mi downstream from Boise Creek, and 16.4 mi east of Rangely.

DRAINAGE AREA.--2,530 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1982 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,395 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 24 to Feb. 28. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	344	361	310	250	280	339	280	616	2310	3000	899	429
2	384	379	300	300	280	321	285	557	2510	2900	840	439
3	374	384	290	310	290	309	288	794	2800	2930	738	442
4	353	398	290	310	300	313	280	610	2870	3380	662	435
5	353	387	310	310	300	307	285	539	2990	2950	665	429
6	388	390	310	310	310	315	303	569	3140	2600	642	444
7	450	404	300	300	290	307	324	559	3380	2570	611	408
8	456	401	290	280	290	267	364	893	3260	2700	575	484
9	440	418	280	280	290	273	398	1180	3170	2690	532	486
10	450	408	270	290	300	299	374	830	2860	2680	517	457
11	438	382	290	290	290	312	347	836	2470	2820	546	478
12	426	393	300	290	290	350	331	1340	2430	2920	613	479
13	411	401	310	280	310	395	324	1490	2720	2960	599	452
14	401	408	330	280	320	342	325	1130	3100	2870	565	461
15	404	360	340	270	310	321	369	1070	3450	2580	555	475
16	424	341	330	260	280	330	368	1300	3720	2260	526	454
17	424	469	320	270	310	339	384	1470	4170	2020	518	436
18	419	444	310	280	320	344	432	1540	4520	1940	493	459
19	435	386	300	280	320	360	425	1520	3600	1940	459	501
20	425	374	300	280	320	399	428	1700	3110	1890	485	503
21	411	399	310	270	320	344	434	1850	3230	1800	518	483
22	418	416	320	270	320	344	405	1860	3360	1780	544	462
23	413	371	320	280	330	350	386	2100	3380	1680	554	485
24	411	350	320	280	330	327	383	2140	3280	1550	561	479
25	401	330	320	280	340	337	374	2020	3050	1430	555	472
26	394	310	310	270	350	316	421	1920	2950	1320	515	475
27	392	300	300	260	350	318	428	1910	2940	1220	497	482
28	391	290	300	270	345	294	402	1850	3060	1140	495	480
29	383	290	300	280	---	292	435	1630	3150	1030	488	747
30	382	310	290	290	---	302	517	1880	3040	945	455	1020
31	379	---	280	290	---	285	---	2230	---	932	438	---
TOTAL	12574	11254	9450	8760	8685	10051	11099	41933	94020	67427	17660	14736
MEAN	406	375	305	283	310	324	370	1353	3134	2175	570	491
MAX	456	469	340	310	350	399	517	2230	4520	3380	899	1020
MIN	344	290	270	250	280	267	280	539	2310	932	438	408
AC-FT	24940	22320	18740	17380	17230	19940	22010	83170	186500	133700	35030	29230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1995, BY WATER YEAR (WY)

	MEAN	537	516	442	391	392	531	786	1789	2141	1001	532	454
MAX	858	710	663	572	531	752	1511	3434	4572	2175	1117	849	
(WY)	1985	1986	1986	1986	1986	1986	1986	1985	1984	1995	1984	1984	
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1983 - 1995

ANNUAL TOTAL	150737	307649	
ANNUAL MEAN	413	843	794
HIGHEST ANNUAL MEAN			1345
LOWEST ANNUAL MEAN			428
HIGHEST DAILY MEAN	1320	4520	6170
LOWEST DAILY MEAN	109	250	109
ANNUAL SEVEN-DAY MINIMUM	147	273	147
INSTANTANEOUS PEAK FLOW		4750	6440
INSTANTANEOUS PEAK STAGE		7.15	8.45
ANNUAL RUNOFF (AC-FT)	299000	610200	575200
10 PERCENT EXCEEDS	702	2690	1680
50 PERCENT EXCEEDS	370	408	509
90 PERCENT EXCEEDS	235	290	310

09306290 WHITE RIVER BELOW BOISE CREEK, NEAR RANGELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1982 to September 1993. October 1994 to September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
MAR												
28...	0930	286	685	8.4	3.5	11.6	1.3	K8	270	72	23	43
APR												
21...	0900	441	702	8.3	7.0	10.3	0.7	52	260	68	22	43
JUN												
28...	1523	3110	335	8.0	14.5	10.1	--	380	150	40	11	12
JUL												
19...	1830	1980	382	8.2	16.5	9.3	--	97	160	43	13	16
AUG												
18...	1130	486	640	8.3	19.0	8.7	1.8	31	--	--	--	--
SEP												
21...	0915	491	677	8.3	11.0	9.1	0.9	K26	280	71	24	39

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
MAR											
28...	1	1.2	178	160	12	0.2	14	455	432	0.62	351
APR											
21...	1	1.5	165	170	11	0.1	13	414	428	0.56	493
JUN											
28...	0.4	0.9	120	48	2.4	0.1	11	204	198	0.28	1710
JUL											
19...	0.5	0.9	128	62	3.4	0.2	13	240	228	0.33	1280
AUG											
18...	--	--	197	130	9.1	0.2	--	425	--	--	--
SEP											
21...	1	1.6	201	150	9.7	0.2	13	444	429	0.60	589

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
MAR								
28...	<0.01	<0.05	<0.02	0.2	<0.2	0.01	0.02	<0.01
APR								
21...	<0.01	<0.05	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01
JUN								
28...	0.02	0.10	0.03	<0.2	0.2	0.08	0.03	0.01
JUL								
19...	<0.01	<0.05	0.02	0.6	<0.2	0.14	<0.01	<0.01
AUG								
18...	<0.01	<0.05	<0.02	0.3	0.2	0.01	0.01	<0.01
SEP								
21...	<0.01	<0.05	<0.02	<0.2	0.2	0.01	<0.01	0.02

K-Based on non-ideal colony count.

09306290 WHITE RIVER BELOW BOISE CREEK, NEAR RANGELY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
MAR 28...	280	<10	<1	<100	<10	30	<1	3	<1	1	420
APR 21...	4900	<10	1	<100	<10	40	<1	5	3	9	4300
JUN 28...	3000	20	1	100	<10	20	<1	4	3	5	4100
JUL 19...	--	<10	1	<100	<10	40	<1	2	1	3	1800
AUG 18...	160	10	2	<100	<10	--	<1	<1	<1	<1	180
SEP 21...	160	<10	<1	<100	<10	60	<1	<1	<1	1	210

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
MAR 28...	11	<1	10	40	12	2	2	1	810	<10
APR 21...	6	6	20	150	9	<1	8	1	670	30
JUN 28...	24	5	<10	130	10	<1	6	<2	350	20
JUL 19...	9	2	10	70	8	1	4	<1	430	<10
AUG 18...	--	<1	10	30	--	3	1	<2	660	<10
SEP 21...	14	<1	10	10	4	1	1	<1	820	<10

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 03...	1350	351	735	11.0	JUN 19...	1600	3760	303	13.0
NOV 22...	1305	416	730	0.0	JUL 12...	1730	2820	319	16.5
FEB 22...	1200	311	819	3.5	AUG 30...	1700	438	653	22.5
MAY 10...	1230	838	820	11.0					

09306305 WHITE RIVER BELOW TAYLOR DRAW RESERVOIR, ABOVE RANGELY, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°06'12", long 108°42'56" in NW¹/4NE¹/4 sec.34, T.2 N., R.101 W., Rio Blanco County, Hydrologic Unit 14050007, on left bank 0.2 mi downstream from Taylor Draw Dam, and 4.7 mi east of Rangely.

DRAINAGE AREA.--2,773 mi².

PERIOD OF RECORD.--October 1994 to September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
APR 21...	1130	612	682	8.5	9.5	9.5	2.0	K3	260	68	21	40
JUN 20...	1200	3180	345	7.9	12.5	10.9	--	390	140	39	11	13
JUL 20...	1000	1990	354	8.1	15.5	9.2	--	K35	150	41	12	16
AUG 18...	1030	548	599	8.2	20.5	7.8	1.5	K10	--	--	--	--
SEP 21...	0830	440	676	8.0	17.0	9.1	1.2	K13	280	70	25	39

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
APR 21...	1	1.3	169	150	14	0.1	13	418	409	0.57	691
JUN 20...	0.5	1.3	119	50	3.1	<0.1	11	208	201	0.28	1790
JUL 20...	0.6	0.9	120	56	3.1	0.2	12	222	213	0.30	1190
AUG 18...	--	--	180	120	8.8	0.2	--	385	--	--	--
SEP 21...	1	1.7	198	150	10	0.2	13	438	428	0.60	520

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)
APR 21...	<0.01	<0.05	0.02	<0.20	<0.20	<0.01	<0.01	<0.01
JUN 20...	<0.01	0.17	<0.02	<0.20	0.20	0.04	0.02	0.01
JUL 20...	<0.01	<0.05	0.03	<0.20	<0.20	0.01	<0.01	<0.01
AUG 18...	<0.01	<0.05	<0.02	0.20	0.30	<0.01	0.01	<0.01
SEP 21...	<0.01	<0.05	<0.02	0.20	<0.20	0.02	0.01	0.02

K-Based on non-ideal colony count.

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)
APR 21...	120	20	<1	<100	<10	40	<1	<1	<1	<1	180
JUN 20...	1400	30	1	<100	<10	30	<1	2	1	4	1800
JUL 20...	--	<10	<1	<100	<10	20	<1	2	<1	5	270
AUG 18...	70	<10	2	<100	<10	--	<1	<1	<1	1	120
SEP 21...	140	<10	1	<100	<10	60	<1	<1	<1	3	170

09306305 WHITE RIVER BELOW TAYLOR DRAW RESERVOIR, ABOVE RANGELY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 to SEPTEMBER 1995

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
APR 21...	7	<1	<10	20	<1	1	<1	1	690	<10
JUN 20...	49	2	30	60	8	<1	3	<1	320	<10
JUL 20...	13	<1	10	20	1	1	20	<1	360	<10
AUG 18...	--	<1	<10	20	--	2	<1	<1	590	<10
SEP 21...	<3	<1	10	20	5	2	1	<1	820	<10

09306380 DOUGLAS CREEK AT RANGELY, CO

LOCATION.--Lat 40°05'17", long 108°46'31", in SE¹/4NW¹/4 sec.6, T.1 N., R.101 W., Rio Blanco County, Hydrologic Unit 14050007, on left bank 200 ft upstream from Colorado Highway 64 bridge, 0.4 mi upstream from confluence with White River, and 1.0 mi east of Rangely.

DRAINAGE AREA.--425 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to September 1978. March 1994 to September 1995 (Discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 5,235 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Diversions upstream from station for irrigation of hay meadows.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	.00	.00	.00	17	9.2	9.9	34	113	32	2.8	.00
2	.91	.00	.00	.00	14	8.9	9.8	42	118	29	2.9	4.9
3	.00	.00	.00	.00	3.8	8.8	9.7	61	117	33	2.4	6.3
4	.06	.00	.00	.00	9.3	8.2	9.2	57	118	36	2.3	1.5
5	.00	.00	.00	.00	22	8.1	9.1	59	119	27	2.0	5.7
6	5.6	.00	.00	.00	21	9.1	9.3	68	111	22	2.7	37
7	4.3	.00	.00	.00	18	8.2	11	76	105	19	2.2	11
8	.51	.00	.00	.00	16	7.3	15	88	98	17	.55	45
9	.08	.00	.00	.00	16	6.9	17	102	93	16	.06	21
10	.00	.00	.00	.00	13	6.4	18	93	85	15	.02	22
11	.00	.00	.00	.00	9.9	6.4	17	96	77	14	.08	20
12	.00	.00	.00	.00	7.9	7.0	17	114	69	13	14	12
13	.00	.00	.00	.00	6.6	15	17	119	64	73	24	7.0
14	.00	.00	.00	.00	8.1	12	17	118	59	77	12	5.1
15	.00	.00	.00	.00	8.2	9.5	19	117	54	28	8.4	4.0
16	14	.00	.00	.00	12	8.8	21	122	52	25	5.6	2.8
17	1.0	.00	.00	.00	26	9.2	24	143	61	23	3.9	1.7
18	.02	.00	.00	.00	19	9.3	26	165	92	25	2.1	1.8
19	.00	.00	.00	2.1	16	9.9	26	158	64	38	.82	1.6
20	.00	.00	.00	2.7	14	11	25	155	51	22	.21	5.1
21	.00	.00	.00	1.1	12	12	23	157	44	19	.17	6.2
22	.00	.00	.00	.62	14	12	22	162	41	18	.15	4.6
23	.00	.00	.00	.47	14	13	21	165	39	16	5.8	3.2
24	.00	.00	.00	.96	13	13	19	165	35	15	15	2.9
25	.00	.00	.00	.23	11	11	20	165	32	15	3.4	1.5
26	.00	.00	.00	.00	11	11	22	152	30	15	1.6	2.7
27	.00	.00	.00	3.2	10	10	23	141	28	9.7	6.4	3.7
28	.00	.00	.00	1.1	9.6	11	21	130	27	7.5	6.9	4.1
29	.00	.00	.00	1.1	---	11	23	123	25	5.8	2.3	181
30	.00	.00	.00	1.1	---	10	32	120	26	4.5	.59	100
31	.00	---	.00	27	---	9.8	---	117	---	3.6	.06	---
TOTAL	35.98	0.00	0.00	41.68	372.4	303.0	553.0	3584	2047	713.1	131.41	525.40
MEAN	1.16	.000	.000	1.34	13.3	9.77	18.4	116	68.2	23.0	4.24	17.5
MAX	14	.00	.00	27	26	15	32	165	119	77	24	181
MIN	.00	.00	.00	.00	3.8	6.4	9.1	34	25	3.6	.02	.00
AC-FT	71	.00	.00	83	739	601	1100	7110	4060	1410	261	1040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1995, BY WATER YEAR (WY)

	MEAN	.76	.19	.000	.45	5.17	5.97	13.1	47.3	21.3	12.3	6.83	10.6
MAX	1.16	.49	.000	1.34	13.3	9.77	18.4	116	68.2	25.6	20.5	24.3	
(WY)	1995	1978	1977	1995	1995	1995	1995	1995	1995	1977	1977	1977	
MIN	.002	.000	.000	.000	.000	3.36	3.88	.16	.099	.000	.58	.13	
(WY)	1977	1995	1977	1978	1978	1978	1977	1977	1977	1994	1978	1978	

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1977 - 1995

ANNUAL TOTAL	8306.97		
ANNUAL MEAN	22.8		
HIGHEST ANNUAL MEAN		12.4	
LOWEST ANNUAL MEAN		22.8	1995
HIGHEST DAILY MEAN	181	6.84	1977
LOWEST DAILY MEAN	a .00	448	Sep 12 1977
ANNUAL SEVEN-DAY MINIMUM	.00	b .00	Oct 1 1976
INSTANTANEOUS PEAK FLOW	541	c 3250	Oct 5 1976
INSTANTANEOUS PEAK STAGE	9.46		Jul 24 1977
ANNUAL RUNOFF (AC-FT)	16480	9000	Jul 24 1977
10 PERCENT EXCEEDS	86	29	
50 PERCENT EXCEEDS	8.2	.02	
90 PERCENT EXCEEDS	.00	.00	

a-No flow many days.

b-No flow at times most years.

c-From rating curve extended above 60 ft³/s, on basis of slope-area measurements at gage heights 7.70 ft, and 9.87 ft.

09306380 DOUGLAS CREEK AT RANGELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1977 to September 1978, March 1994 to September 1995 (Discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO
APR 24...	1245	20	1500	8.4	10.0	10.0	520	79	79	150	3
MAY 04...	1130	56	1130	8.2	9.5	8.1	390	65	55	110	2

DATE	TIME	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
APR 24...	3.0	301	480	17	0.4	11	1040	1000	1.41	56.4	<1	
MAY 04...	4.1	268	350	11	0.4	11	802	768	1.09	121	<1	

DATE	TIME	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)
APR 24...		36	<0.5	<1	<5	<3	<10	<3	<10	39
MAY 04...		37	<0.5	<1	<5	4	<10	18	<10	30

DATE	TIME	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 24...		7	<10	<10	1	<1	1100	<6	<3
MAY 04...		11	<10	<10	3	<1	820	<6	<3

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 06...	1230	6.3	4750	10.0	JUN 07...	1445	110	909	14.5
FEB 09...	1015	15	1470	0.0	19...	1248	60	1150	17.5
22...	1003	5.7	1940	1.0	JUL 11...	1215	16	1480	24.5
MAR 28...	1025	11	2130	2.0	AUG 31...	1210	0.02	1380	25.5
MAY 10...	1445	85	1250	13.0					

09306380 DOUGLAS CREEK AT RANGELY, CO--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT					JUN				
06...	1230	6.3	15800	268	07...	1445	110	5590	1660
MAR					19...	1248	60	5220	846
28...	1025	11	439	13	JUL				
MAY					11...	1215	16	355	15
04...	1130	56	8370	1260	AUG				
10...	1445	85	7170	1650	31...	1210	0.02	101	0.01

09339900 EAST FORK SAN JUAN RIVER ABOVE SAND CREEK, NEAR PAGOSA SPRINGS, CO

LOCATION.--Lat 37°23'23", long 106°50'26", in NE¹/₄ sec.4, T.36 N., R.1 E., Archuleta County, Hydrologic Unit 14080101, on right bank 0.3 mi upstream from Sand Creek, 4.0 mi upstream from West Fork San Juan River, and 13 mi northeast of Pagosa Springs.

DRAINAGE AREA.--64.1 mi².

PERIOD OF RECORD.--October 1956 to current year. Prior to October 1959, published as San Juan River above Sand Creek, near Pagosa Springs.

REVISED RECORDS.--WSP 1713: 1957.

GAGE.--Water-stage recorder. Elevation of gage is 7,940 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 5-11, 15, 16, Nov. 19 to Jan. 12, 14, 15, Jan. 17 to Feb. 21, Mar. 6-11, 13, 14. Records good except those for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 500 acres of hay meadows upstream from station. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since at least 1885 occurred Oct. 5, 1911.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	26	21	15	16	41	44	165	319	621	121	61
2	28	26	20	16	16	38	46	197	472	561	111	53
3	26	27	20	17	16	37	49	202	514	531	100	46
4	29	26	21	17	16	35	55	181	520	476	99	46
5	39	25	22	17	17	35	68	202	520	411	93	43
6	48	25	23	17	18	35	86	202	626	449	89	42
7	35	26	23	16	19	33	105	181	597	494	85	47
8	33	26	21	16	21	31	130	153	567	495	83	60
9	32	26	19	16	20	32	133	140	550	499	79	59
10	30	26	18	16	18	34	103	147	521	506	75	58
11	29	28	18	16	16	39	88	171	520	488	77	53
12	27	32	18	16	16	42	83	217	589	474	93	48
13	26	30	18	16	16	40	100	173	710	441	100	44
14	27	26	18	16	17	47	119	178	830	371	82	44
15	29	25	16	16	19	56	113	303	893	323	74	41
16	30	26	15	15	19	60	99	467	836	413	66	37
17	32	26	15	14	20	59	97	465	957	371	66	36
18	30	25	14	13	22	60	89	352	946	323	56	41
19	33	25	14	14	23	69	83	326	695	320	65	39
20	33	24	14	16	26	68	75	354	686	301	75	35
21	33	24	14	16	31	76	70	463	692	275	79	34
22	36	23	16	15	35	89	64	548	668	247	112	33
23	36	22	17	15	36	82	60	558	633	224	124	30
24	36	22	18	15	41	76	59	481	603	191	114	33
25	33	22	17	17	43	67	63	407	596	181	97	33
26	33	22	16	17	45	60	64	351	567	174	88	32
27	32	21	14	16	43	54	75	330	541	162	80	31
28	32	20	14	15	43	53	81	320	530	148	89	34
29	32	20	14	15	---	50	102	295	571	144	86	67
30	32	20	15	15	---	47	137	259	611	136	76	57
31	28	---	16	15	---	45	---	254	---	129	72	---
TOTAL	996	742	539	486	688	1590	2540	9042	18880	10879	2706	1317
MEAN	32.1	24.7	17.4	15.7	24.6	51.3	84.7	292	629	351	87.3	43.9
MAX	48	32	23	17	45	89	137	558	957	621	124	67
MIN	26	20	14	13	16	31	44	140	319	129	56	30
AC-FT	1980	1470	1070	964	1360	3150	5040	17930	37450	21580	5370	2610

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1995, BY WATER YEAR (WY)

	MEAN	35.1	22.5	14.3	12.0	12.9	26.6	106	301	347	120	54.7	43.6
MAX	107	74.9	30.3	21.7	24.6	62.9	248	520	788	395	143	207	
(WY)	1987	1987	1987	1973	1995	1986	1985	1984	1957	1957	1957	1970	
MIN	8.39	8.31	4.68	5.00	5.66	8.86	29.2	70.4	60.2	23.9	15.6	10.6	
(WY)	1957	1961	1959	1959	1990	1977	1977	1977	1977	1959	1972	1978	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1957 - 1995

ANNUAL TOTAL	33325.5	50405	
ANNUAL MEAN	91.3	138	91.4
HIGHEST ANNUAL MEAN			155
LOWEST ANNUAL MEAN			31.5
HIGHEST DAILY MEAN	622	Jun 4	1180
LOWEST DAILY MEAN	9.0	Feb 23	3.4
ANNUAL SEVEN-DAY MINIMUM	11	Feb 19	3.7
INSTANTANEOUS PEAK FLOW			2260
INSTANTANEOUS PEAK STAGE		5.93	6.75
ANNUAL RUNOFF (AC-FT)	66100	99980	66240
10 PERCENT EXCEEDS	341	494	278
50 PERCENT EXCEEDS	32	45	30
90 PERCENT EXCEEDS	12	16	10

a-From rating curve extended above 460 ft³/s, on basis of slope-area measurement at gage height, 6.13 ft.

09342500 SAN JUAN RIVER AT PAGOSA SPRINGS, CO

LOCATION.--Lat 37°15'58", long 107°00'37", in NE¹/4SW¹/4 sec.13, T.35 N., R.2 W., Archuleta County, Hydrologic Unit 14080101, on right bank at former bridge site in Pagosa Springs, 0.2 mi upstream from McCabe Creek, 0.6 mi downstream from bridge on U.S. Highway 160, and 2.0 mi upstream from Mill Creek.

DRAINAGE AREA.--298 mi².

PERIOD OF RECORD.--October 1910 to December 1914, May 1935 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1313: 1914(M).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,052.04 ft above sea level. Jan 29 to Mar. 6, 1911, nonrecording gage at site 0.5 mi upstream, at different datum. Mar. 7 to Oct. 4, 1911, nonrecording gage at present site, at different datum. Nov. 23, 1911, to Nov. 14, 1914, nonrecording gage at site 300 ft downstream, at different datum.

REMARKS.--Estimated daily discharges: July 6-9. 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 elsewhere in this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1885, that of Oct. 5, 1911. Flood of June 29, 1927, reached a stage of 13.5 ft, discharge about 16,000 ft³/s, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	162	144	111	61	64	275	347	939	1230	2740	440	231
2	118	138	111	58	68	254	366	1070	1680	2390	410	196
3	100	146	107	75	75	232	366	1080	1900	2150	351	180
4	108	138	125	64	78	244	428	974	2030	1910	326	162
5	136	134	116	69	85	230	566	1090	2070	1710	306	151
6	227	143	124	72	93	302	682	1070	2530	1900	271	140
7	161	158	120	56	105	252	795	953	2250	2080	270	163
8	149	183	108	72	108	210	896	842	2100	2200	207	179
9	137	171	73	67	104	204	921	776	2040	2290	195	183
10	127	156	63	63	89	227	729	803	1950	2100	195	198
11	119	169	89	65	83	327	617	882	1970	2070	195	183
12	108	277	92	69	84	494	603	912	2390	1940	205	161
13	102	271	102	64	83	325	708	882	2950	1760	299	143
14	104	219	88	52	89	341	817	878	3190	1550	218	135
15	138	227	66	71	100	454	769	1360	3470	1400	189	132
16	126	302	72	64	98	549	675	1860	3180	1520	162	123
17	147	312	63	62	105	570	667	1840	4080	1430	179	113
18	131	280	76	24	110	611	594	1460	3970	1320	151	120
19	145	272	75	38	117	672	581	1350	3130	1310	150	125
20	155	275	73	58	137	638	523	1420	3080	1190	194	109
21	153	285	78	69	179	693	501	1760	3090	1070	174	107
22	168	240	83	55	208	845	479	2170	2950	1000	359	103
23	184	171	95	39	227	718	430	2210	2750	908	567	101
24	191	164	96	59	269	662	410	1820	2580	824	455	102
25	167	171	89	67	309	550	473	1540	2520	769	438	107
26	163	137	80	63	311	463	504	1360	2400	727	435	101
27	160	84	72	62	304	408	568	1250	2310	685	352	105
28	162	76	68	42	285	385	597	1230	2220	631	378	107
29	175	64	80	58	---	353	708	1170	2210	595	468	299
30	176	85	85	38	---	337	829	1080	2570	553	333	250
31	153	---	79	56	---	348	---	1040	---	540	284	---
TOTAL	4552	5592	2759	1832	3967	13173	18149	39071	76790	45262	9156	4509
MEAN	147	186	89.0	59.1	142	425	605	1260	2560	1460	295	150
MAX	227	312	125	75	311	845	921	2210	4080	2740	567	299
MIN	100	64	63	24	64	204	347	776	1230	540	150	101
AC-FT	9030	11090	5470	3630	7870	26130	36000	77500	152300	89780	18160	8940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1995, BY WATER YEAR (WY)

MEAN	146	93.8	64.2	55.3	62.3	146	570	1292	1369	407	177	149
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1936 - 1995	
ANNUAL TOTAL	137383		224812			
ANNUAL MEAN	376		616		378	
HIGHEST ANNUAL MEAN					730	
LOWEST ANNUAL MEAN					115	
HIGHEST DAILY MEAN	2310	Jun 4	4080	Jun 17	4640	May 13 1941
LOWEST DAILY MEAN	37	Aug 29	24	Jan 18	a 9.7	Oct 5 1956
ANNUAL SEVEN-DAY MINIMUM	42	Aug 25	49	Jan 18	11	Oct 4 1956
INSTANTANEOUS PEAK FLOW			5250	Jun 17	25000	Oct 5 1911
INSTANTANEOUS PEAK STAGE			8.06	Jun 17	b 17.80	Oct 5 1911
ANNUAL RUNOFF (AC-FT)	272500		445900		274000	
10 PERCENT EXCEEDS	1290		1960		1180	
50 PERCENT EXCEEDS	141		232		109	
90 PERCENT EXCEEDS	53		72		43	

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 NE¹/4NW¹/4 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 mi².

PERIOD OF RECORD.--March 1971 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,858.04 ft above sea level, (levels by U. S. Bureau of Reclamation).

REMARKS.--Estimated daily discharges: Oct. 1 to Nov. 14, 24-25, Nov. 28 to Dec. 1, Dec. 3, 9-10, 15-16, 27-29, Jan. 2, 4, 7, 9-11, 14, 17-19, 23, 28, 30, and June 13 to Sept. 30. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	23	28	22	19	59	60	41	41	592	133	48
2	28	25	31	22	30	52	69	42	45	544	120	42
3	24	30	30	21	31	46	70	39	50	483	107	38
4	23	29	28	20	31	44	94	43	43	408	105	32
5	46	28	27	21	34	41	136	42	134	381	103	26
6	41	37	31	22	36	46	155	41	217	436	93	28
7	19	36	28	22	37	45	174	42	121	477	80	36
8	18	35	26	21	35	41	197	42	81	487	73	49
9	24	30	24	20	30	40	178	41	53	492	78	48
10	24	28	24	20	27	45	86	42	49	489	78	51
11	24	27	26	20	26	59	25	43	66	463	99	38
12	24	81	25	20	24	68	26	43	332	423	155	32
13	24	45	25	19	26	54	27	43	535	376	145	26
14	25	28	23	20	25	63	29	43	695	327	88	36
15	30	27	22	21	23	91	31	54	620	308	71	28
16	27	32	22	19	27	105	30	44	327	424	59	27
17	41	30	23	18	25	100	30	42	794	355	58	26
18	47	27	24	20	27	107	30	41	692	312	52	31
19	58	24	25	20	30	119	30	41	300	303	64	27
20	55	24	25	20	39	114	30	42	739	273	128	24
21	66	23	26	21	53	135	30	73	808	248	92	25
22	77	26	27	19	53	141	29	112	734	227	142	23
23	59	28	26	20	60	126	29	65	642	203	175	23
24	46	26	25	20	76	117	29	42	597	182	202	25
25	36	26	24	19	82	100	31	42	571	170	101	25
26	34	28	23	18	75	90	33	41	542	160	97	23
27	32	26	22	18	71	77	32	41	549	149	91	21
28	33	24	22	18	69	71	36	41	533	144	109	30
29	35	26	22	19	---	63	40	43	576	138	78	65
30	28	26	24	18	---	58	41	42	660	136	62	53
31	22	---	24	20	---	55	---	42	---	133	57	---
TOTAL	1112	905	782	618	1121	2372	1837	1435	12146	10243	3095	1006
MEAN	35.9	30.2	25.2	19.9	40.0	76.5	61.2	46.3	405	330	99.8	33.5
MAX	77	81	31	22	82	141	197	112	808	592	202	65
MIN	18	23	22	18	19	40	25	39	41	133	52	21
AC-FT	2210	1800	1550	1230	2220	4700	3640	2850	24090	20320	6140	2000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1995, BY WATER YEAR (WY)

	MEAN	40.3	30.4	20.2	16.8	19.0	39.0	50.2	113	144	72.8	39.5	39.0
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	1990	1977	1972	1972	1974	

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR			FOR 1995 WATER YEAR			WATER YEARS 1971 - 1995		
ANNUAL TOTAL	26751			36672					
ANNUAL MEAN	73.3			100			53.2		
HIGHEST ANNUAL MEAN							135		
LOWEST ANNUAL MEAN							19.5		
HIGHEST DAILY MEAN	739	Jun 22		808	Jun 21		1330	Jun 8	1985
LOWEST DAILY MEAN	10	Feb 1		18	Oct 8		1.0	Jan 28	1981
ANNUAL SEVEN-DAY MINIMUM	12	Jan 31		19	Jan 24		6.8	Dec 31	1989
INSTANTANEOUS PEAK FLOW				1750	Jun 17		3130	Aug 24	1992
INSTANTANEOUS PEAK STAGE				4.68	Jun 17		5.14	Aug 24	1992
ANNUAL RUNOFF (AC-FT)	53060			72740			38530		
10 PERCENT EXCEEDS	174			305			110		
50 PERCENT EXCEEDS	31			41			23		
90 PERCENT EXCEEDS	17			22			15		

a-Also occurred Jan 17, 26-28, 30.

09344000 NAVAJO RIVER AT BANDED PEAK RANCH, NEAR CHROMO, CO

LOCATION (REVISED).--Lat 37°05'07", long 106°41'20", in SE¹/4NW¹/4 sec.24, T.33 N., R.2 E., Archuleta County, Hydrologic Unit 14080101, on right bank at downstream side of private bridge on Banded Peak Ranch, 0.5 mi downstream from Cutthroat Creek, 2.8 mi downstream from East Fork, and 11.2 mi northeast of Chromo.

DRAINAGE AREA.--69.8 mi².

PERIOD OF RECORD.--October 1936 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,938.0 ft above sea level, (river-profile survey). Prior to Oct. 1, 1949, at datum 3.00 ft, higher. Oct. 1, 1949 to Oct. 7, 1952, at site 40 ft upstream, at same datum. Oct. 8, 1952 to Aug. 31, 1957, at about the same site, at same datum. Sept. 20, 1957 to Sept. 30, 1974, station moved below bridge, at datum 0.4 ft, lower. Nov. 1, 1974 to Oct. 12, 1994, at site 50 ft downstream, at datum 0.9 ft lower. Oct. 13, 1994 to present, at same site on right bank, at datum 1.3 ft lower.

REMARKS.--Estimated daily discharges: Oct. 11-13, Nov. 29 to Feb. 13, 21, Mar. 7-9, Aug. 21-29, and Sept. 10-12. Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of about 430 acres upstream from station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred Oct. 5, 1911.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	45	44	34	34	65	66	207	320	641	144	100
2	41	44	44	34	36	59	71	238	393	617	134	91
3	41	52	46	36	36	57	77	213	432	578	123	82
4	42	49	44	36	36	57	94	211	425	539	122	76
5	52	49	46	36	38	55	119	233	474	502	119	70
6	53	51	50	38	40	64	140	213	553	518	111	67
7	47	53	48	34	40	50	162	197	616	539	102	72
8	45	56	48	36	40	50	184	178	614	551	103	86
9	44	53	38	34	38	50	181	163	585	561	102	82
10	44	51	38	34	36	57	144	182	586	540	99	90
11	42	52	40	36	36	67	126	210	603	524	98	80
12	42	65	42	36	30	73	129	217	661	498	134	70
13	42	56	42	36	36	62	155	202	710	464	124	66
14	42	51	42	34	36	69	172	233	747	416	124	65
15	44	48	38	36	30	83	151	360	816	389	106	62
16	42	47	40	34	31	89	141	419	817	404	98	59
17	44	48	40	34	33	90	142	421	874	383	95	59
18	45	49	42	32	34	97	129	379	1010	355	85	59
19	46	48	42	32	36	103	124	377	1000	342	87	57
20	47	48	42	30	40	103	111	377	999	320	117	57
21	48	48	42	34	46	125	104	429	998	300	100	57
22	53	47	44	34	52	132	96	481	930	280	130	57
23	55	45	44	34	57	120	91	464	889	251	160	57
24	56	47	42	34	64	110	90	430	802	222	140	57
25	54	45	42	34	67	97	104	376	742	207	140	57
26	52	44	40	34	67	88	124	352	715	195	130	57
27	50	44	40	34	68	77	133	328	667	183	140	55
28	49	45	38	32	68	75	150	294	644	174	180	57
29	49	44	38	32	---	71	179	279	648	171	150	78
30	48	44	40	30	---	63	206	271	668	165	119	71
31	46	---	38	32	---	63	---	276	---	160	109	---
TOTAL	1450	1468	1304	1056	1205	2421	3895	9210	20938	11989	3725	2053
MEAN	46.8	48.9	42.1	34.1	43.0	78.1	130	297	698	387	120	68.4
MAX	56	65	50	38	68	132	206	481	1010	641	180	100
MIN	41	44	38	30	30	50	66	163	320	160	85	55
AC-FT	2880	2910	2590	2090	2390	4800	7730	18270	41530	23780	7390	4070

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1995, BY WATER YEAR (WY)

	MEAN	50.0	37.7	30.8	28.2	29.4	43.6	139	331	380	139	69.8	53.5
MAX	188	106	62.2	54.0	45.0	104	303	741	768	432	170	185	
(WY)	1942	1987	1942	1942	1942	1989	1985	1941	1973	1941	1957	1970	
MIN	21.4	17.8	18.2	17.4	16.4	23.7	58.1	113	60.6	40.4	25.7	20.6	
(WY)	1956	1956	1955	1960	1949	1964	1977	1977	1977	1977	1950	1953	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1937 - 1995

ANNUAL TOTAL	46121	60714											
ANNUAL MEAN	126	166											
HIGHEST ANNUAL MEAN										111			
LOWEST ANNUAL MEAN										195		1941	
HIGHEST DAILY MEAN	676	Jun 2	1010	Jun 18	1180	May 13	1941			44.8		1977	
LOWEST DAILY MEAN	20	Feb 1	30	Jan 20	12	Sep 29	1960			8.4			
ANNUAL SEVEN-DAY MINIMUM	23	Feb 6	33	Jan 25	12	Feb 5	1949						
INSTANTANEOUS PEAK FLOW			1120	Jun 21	1480	Jun 9	1980						
INSTANTANEOUS PEAK STAGE			3.82	Jun 21	4	Jun 9	1980			4.55			
ANNUAL RUNOFF (AC-FT)	91480	120400								80530			
10 PERCENT EXCEEDS	439	500								307			
50 PERCENT EXCEEDS	48	68								45			
90 PERCENT EXCEEDS	29	36								24			

a-Also occurred Jan 30, Feb 12 and 15.

b-Result of temporary blockage by channel alteration upstream.

c-From rating curve extended above 840 ft³/s, on basis of float-area measurement at gage height, 4.44 ft.

d-Maximum gage height, 7.02 ft, May 13, 1941, present datum.

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 mi².

PERIOD OF RECORD.--March 1971 to current year.

GAGE.--Water-stage recorder with satellite telemetry, and Parshall flume. Datum of gage is 7,665.30 ft above sea level, (levels by U. S. Bureau of Reclamation). Prior to Sept. 5, 1979, at same site, at different datum.

REMARKS.--Estimated daily discharges: Nov. 29-30, Dec. 16-17, 19-22, and Jan. 19. Records good except for 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	33	44	39	38	87	99	90	112	743	171	110
2	42	47	45	41	40	78	108	91	101	665	151	98
3	41	56	45	42	41	73	114	90	130	619	141	92
4	42	52	47	43	41	71	138	90	126	523	139	86
5	44	51	48	43	42	69	177	90	175	440	136	81
6	50	54	53	44	44	115	209	89	304	475	127	78
7	40	57	50	41	45	88	237	90	323	538	117	86
8	48	60	49	43	46	72	273	90	234	553	111	111
9	46	57	38	42	44	71	270	89	192	589	111	96
10	46	53	38	42	41	82	111	89	132	597	106	111
11	44	55	42	43	41	105	43	89	162	575	105	100
12	43	74	43	43	35	135	40	89	274	561	137	87
13	42	64	44	42	39	101	40	89	373	488	141	78
14	43	55	45	39	39	110	39	89	368	421	137	81
15	51	48	42	42	36	137	39	109	394	390	121	78
16	48	49	42	39	36	162	39	178	445	403	109	71
17	51	50	44	40	38	168	39	151	474	376	113	68
18	51	51	45	37	39	184	39	87	450	343	94	67
19	55	50	44	36	41	202	38	87	408	371	89	59
20	58	50	44	35	46	192	38	86	512	367	131	58
21	69	49	44	38	57	239	39	145	918	340	113	57
22	62	49	46	38	62	254	39	290	832	319	138	56
23	56	45	47	38	68	208	39	240	766	282	180	56
24	75	45	45	38	81	185	39	95	711	242	116	57
25	63	45	45	38	92	156	38	88	673	218	82	59
26	61	46	45	38	94	136	38	87	655	210	83	57
27	45	45	43	38	97	120	37	87	684	199	84	54
28	56	44	42	36	95	116	56	87	654	189	82	55
29	52	44	43	36	---	108	90	97	635	190	123	96
30	52	44	45	33	---	94	89	90	734	183	135	88
31	51	---	44	35	---	94	---	92	---	180	122	---
TOTAL	1574	1522	1381	1222	1458	4012	2634	3350	12951	12589	3745	2331
MEAN	50.8	50.7	44.5	39.4	52.1	129	87.8	108	432	406	121	77.7
MAX	75	74	53	44	97	254	273	290	918	743	180	111
MIN	40	33	38	33	35	69	37	86	101	180	82	54
AC-FT	3120	3020	2740	2420	2890	7960	5220	6640	25690	24970	7430	4620

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1995, BY WATER YEAR (WY)

	MEAN	54.6	46.9	39.0	35.4	37.0	61.7	59.3	134	164	96.8	66.4	60.4
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	87.8	44.7	40.2	28.1	28.4	
(WY)	1981	1990	1977	1990	1990	1977	1973	1988	1977	1972	1972	1978	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1971 - 1995

ANNUAL TOTAL	30334	48769	
ANNUAL MEAN	83.1	134	72.2
HIGHEST ANNUAL MEAN			158
LOWEST ANNUAL MEAN			41.5
HIGHEST DAILY MEAN	795	Jun 22	1160
LOWEST DAILY MEAN	22	Feb 1	10
ANNUAL SEVEN-DAY MINIMUM	25	Feb 6	13
INSTANTANEOUS PEAK FLOW			1080
INSTANTANEOUS PEAK STAGE		4.80	Jun 21
ANNUAL RUNOFF (AC-FT)	60170	96730	52320
10 PERCENT EXCEEDS	136	367	128
50 PERCENT EXCEEDS	50	78	48
90 PERCENT EXCEEDS	34	39	31

a-Also occurred Jan 30.

b-Also occurred Oct 11, 1981.

c-Maximum gage height, 5.07 ft, Feb 13, 1994, backwater from ice.

09345200 LITTLE NAVAJO RIVER BELOW LITTLE OSO DIVERSION DAM, NEAR CHROMO, CO

LOCATION.--Lat 37°04'32", long 106°48'38", in SW¹/₄ sec.23, T.33 N., R.1 E., Archuleta County, Hydrologic Unit 14080101, on right bank at Little Oso Diversion Dam, 3.5 mi northeast of Chromo, and 4.0 mi upstream from confluence with Navajo River.

DRAINAGE AREA.--14.2 mi².

PERIOD OF RECORD.--June 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7,756.10 ft above sea level, (levels by U.S. Bureau of Reclamation).

REMARKS.--Flows controlled by diversion dam upstream. Streamflow data for water year 1994 (not published last year), will be published in a subsequent report.

COOPERATION.--Records collected and computed by U.S. Bureau of Reclamation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	1.7	1.7	1.6	8.4	12	39	29	49	6.3	3.6
2	.00	.00	1.9	1.6	1.9	7.2	14	33	30	46	6.1	3.5
3	.00	.00	1.9	1.6	2.0	6.7	15	28	35	43	5.8	3.0
4	.00	2.6	1.9	1.7	2.1	6.1	18	28	40	37	5.4	3.0
5	.00	1.9	1.7	1.9	2.2	5.8	20	28	42	32	5.2	2.9
6	.00	2.4	2.4	2.0	2.2	12	20	28	52	32	5.1	2.8
7	.00	2.6	2.1	1.7	2.5	9.0	20	28	50	33	5.2	3.0
8	.00	2.6	2.0	1.7	2.6	7.0	20	28	45	34	4.9	5.1
9	.00	2.4	1.7	1.6	2.5	6.9	20	27	41	34	4.8	4.1
10	.00	2.1	1.7	1.6	2.5	8.8	4.4	29	37	32	4.4	5.1
11	.00	2.4	1.7	1.9	2.4	13	12	29	37	31	4.3	3.9
12	.00	4.3	1.7	1.9	2.4	18	8.4	28	45	28	4.8	3.3
13	.00	2.6	1.7	1.9	2.5	12	8.4	27	50	26	3.5	2.9
14	.00	2.4	1.7	1.7	2.5	14	9.9	26	54	24	4.1	3.0
15	.00	1.7	1.7	1.7	2.6	19	7.8	28	53	21	3.8	2.9
16	.00	3.0	1.7	1.7	2.4	24	3.8	27	50	20	3.5	2.8
17	.00	2.6	1.7	1.7	2.5	25	6.0	27	55	20	3.8	2.5
18	.00	2.4	1.7	1.9	2.5	27	6.9	27	53	18	3.0	2.6
19	.00	2.5	1.7	1.9	2.8	32	7.0	27	45	17	3.0	2.2
20	.00	2.4	1.7	1.9	3.2	30	7.2	24	52	15	4.1	2.2
21	.00	2.2	1.7	1.9	4.8	35	8.0	23	62	14	3.3	2.2
22	.00	2.2	1.7	1.7	4.9	39	7.4	36	60	13	4.4	2.2
23	.00	2.1	1.7	1.6	6.1	32	8.2	39	57	12	6.3	2.2
24	.00	2.0	1.7	1.5	8.4	27	11	28	55	10	4.3	2.2
25	.00	2.1	1.7	1.7	10	20	11	28	52	9.9	4.3	2.2
26	.00	2.0	1.7	1.7	11	17	7.8	30	51	8.8	6.5	2.2
27	.00	2.0	1.7	1.7	11	14	8.0	29	50	8.4	7.0	2.1
28	.00	1.9	1.7	1.6	10	14	28	29	47	7.8	13	2.2
29	.00	1.7	1.7	1.6	---	12	22	29	47	7.4	9.6	4.6
30	.00	1.7	1.7	1.5	---	11	30	29	50	7.0	5.2	4.8
31	.00	---	1.7	1.6	---	11	---	29	---	6.7	4.1	---
TOTAL	0.00	62.80	54.7	53.4	114.1	523.9	382.2	895	1426	697.0	159.1	91.3
MEAN	.000	2.09	1.76	1.72	4.07	16.9	12.7	28.9	47.5	22.5	5.13	3.04
MAX	.00	4.3	2.4	2.0	11	39	30	39	62	49	13	5.1
MIN	.00	.00	1.7	1.5	1.6	5.8	3.8	23	29	6.7	3.0	2.1
AC-FT	.00	125	108	106	226	1040	758	1780	2830	1380	316	181

^aSTATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1995, BY WATER YEAR (WY)

	MEAN	6.55	5.23	2.79	2.46	2.64	8.87	14.1	25.0	20.1	8.08	4.14	3.99
MAX	49.9	46.4	8.82	5.82	6.53	32.0	45.7	66.3	47.5	22.5	9.25	17.3	
(WY)	1987	1987	1987	1987	1986	1985	1989	1973	1995	1995	1986	1982	
MIN	.000	1.00	.47	1.02	1.03	1.95	4.19	4.86	1.87	.87	.47	1.02	
(WY)	1995	1990	1990	1990	1990	1977	1976	1977	1977	1984	1972	1972	

SUMMARY STATISTICS

FOR 1995 WATER YEAR

^aWATER YEARS 1971 - 1995

ANNUAL TOTAL	4459.50		
ANNUAL MEAN	12.2	^a 8.75	
HIGHEST ANNUAL MEAN		18.6	1987
LOWEST ANNUAL MEAN		2.34	1977
HIGHEST DAILY MEAN	62	202	May 18 1973
LOWEST DAILY MEAN	^b .00	^c .00	Apr 14 1974
ANNUAL SEVEN-DAY MINIMUM	.00	^d .00	Oct 1 1994
INSTANTANEOUS PEAK FLOW	Not determined	235	May 30 1979
ANNUAL RUNOFF (AC-FT)	8850	^a 6340	
10 PERCENT EXCEEDS	35	27	
50 PERCENT EXCEEDS	4.3	3.6	
90 PERCENT EXCEEDS	1.6	1.4	

a-Does not include water year 1994 data. See REMARKS paragraph above.

b-Also occurred Oct 2 to Nov 3.

c-Also occurred Oct 21, 1988 and Oct 1 to Nov 3, 1994.

d-Gage height not determined.

09346000 NAVAJO RIVER AT EDITH, CO

LOCATION.--Lat 37°00'10", long 106°54'25", in NW¹/4NW¹/4 sec.24, T.32 N., R.1 W., Archuleta County, Hydrologic Unit 14080101, on right bank 290 ft downstream from highway bridge, 0.2 mi southeast of Edith, 0.5 mi upstream from Colorado-New Mexico State line, and 1.3 mi upstream from Coyote Creek.

DRAINAGE AREA.--172 mi².

PERIOD OF RECORD.--September 1912 to current year. Monthly or yearly discharge only for some periods, published in WSP 1313. Water-quality data available, October 1969 to September 1974. Sediment data available October 1970 to September 1974. Statistical summary computed for 1971 to current year.

REVISED RECORDS.--WSP 1243: 1943, 1945. WSP 1633: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 7,033.00 ft above sea level, (levels by U.S. Bureau of Reclamation). Prior to Jan. 1, 1929, nonrecording gage at site 240 ft upstream, at different datum. June 2, 1935, to June 27, 1941, water-stage recorder at sites 200 and 240 ft upstream, at datum 2.0 ft, higher. June 28, 1941, to June 20, 1961, at site 50 ft downstream at present datum.

REMARKS.--Estimated daily discharges: Nov. 12-14, 17, 19, 20, Nov. 25 to Dec. 4, Dec. 6-8, 11, 13, 14 and Dec. 18-22 and Dec. 24 to Feb. 5. Records good except those for flow over 650 ft³/s, which are fair, and estimated daily discharges, which are poor. Diversions for irrigation of about 1,700 acres upstream from station. Highwater diversions upstream from station into Heron Reservoir through Azotea tunnel began in March 1971. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 5, 1911, exceeded all other observed floods at this location.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	57	40	42	40	165	138	177	159	895	162	118
2	41	45	42	42	40	141	156	189	150	771	153	105
3	44	64	46	42	42	120	162	174	173	687	147	100
4	47	66	52	44	44	118	194	171	189	582	147	94
5	49	62	58	44	48	110	265	165	204	458	138	89
6	59	61	54	44	52	491	319	159	361	495	135	89
7	57	65	56	44	53	229	347	159	377	572	120	95
8	51	66	50	44	55	146	394	165	282	580	108	131
9	52	66	45	44	54	132	395	159	225	621	110	118
10	52	62	38	44	48	154	208	156	172	643	105	126
11	52	61	42	45	49	256	93	156	156	581	102	120
12	49	74	45	45	45	352	81	153	279	571	128	102
13	48	70	46	42	44	205	85	153	424	522	135	93
14	49	66	46	42	55	213	87	147	440	447	123	95
15	64	62	45	42	56	275	85	156	455	381	110	93
16	66	63	42	42	49	319	74	219	530	385	95	85
17	66	63	40	40	50	332	75	265	573	400	107	81
18	63	62	40	38	53	359	75	199	544	341	88	79
19	68	62	42	36	56	394	81	180	522	352	85	73
20	70	60	42	38	66	365	83	165	558	356	128	70
21	79	61	42	40	85	432	100	165	1240	329	115	70
22	73	61	42	40	97	423	115	368	1100	308	152	70
23	67	55	44	40	117	326	108	346	982	274	192	67
24	85	54	44	40	143	281	119	182	894	246	136	63
25	74	54	44	42	165	232	121	156	818	228	93	70
26	75	50	44	42	180	196	110	153	757	221	93	68
27	67	42	42	42	183	174	100	147	760	207	93	68
28	58	35	38	42	171	171	115	144	749	198	107	70
29	63	32	40	40	---	156	155	156	687	195	140	112
30	63	35	42	38	---	138	171	154	845	186	153	112
31	61	---	44	38	---	135	---	147	---	186	132	---
TOTAL	1867	1736	1377	1288	2140	7540	4611	5585	15605	13218	3832	2726
MEAN	60.2	57.9	44.4	41.5	76.4	243	154	180	520	426	124	90.9
MAX	85	74	58	45	183	491	395	368	1240	895	192	131
MIN	41	32	38	36	40	110	74	144	150	186	85	63
AC-FT	3700	3440	2730	2550	4240	14960	9150	11080	30950	26220	7600	5410

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1995, BY WATER YEAR (WY)

	1971	1972	1973	1974	1975	1976	1977	1978	1979
MEAN	64.4	54.8	40.9	36.1	41.8	101	133	176	177
MAX	204	179	81.7	59.5	76.4	243	319	419	648
(WY)	1987	1987	1987	1985	1995	1995	1993	1973	1985
MIN	33.4	29.8	18.1	17.8	21.6	31.1	38.3	78.9	42.7
(WY)	1979	1977	1977	1977	1977	1977	1977	1977	1972

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1971 - 1995
ANNUAL TOTAL	36326	61525	
ANNUAL MEAN	99.5	169	^a 89.0
HIGHEST ANNUAL MEAN			184
LOWEST ANNUAL MEAN			39.4
HIGHEST DAILY MEAN	843	Jun 22	^b 1250
LOWEST DAILY MEAN	23	Aug 30	^c 8.0
ANNUAL SEVEN-DAY MINIMUM	30	Feb 20	^d 12
INSTANTANEOUS PEAK FLOW			^e 1800
INSTANTANEOUS PEAK STAGE			^f 5.29
ANNUAL RUNOFF (AC-FT)	72050	122000	64440
10 PERCENT EXCEEDS	191	397	185
50 PERCENT EXCEEDS	62	100	57
90 PERCENT EXCEEDS	34	42	32

a-Average discharge for 58 years (water years 1913-70), 155 ft³/s; 112300 acre-ft/yr, prior to diversions through Azotea tunnel.

b-Maximum daily discharge for period of record, 2830 ft³/s, Jun 15, 1921.

c-Also occurred Sep 25, 1953.

d-From rating curve extended above 1620 ft³/s.

e-Maximum discharge and stage for period of record, 2840 ft³/s, Apr 23, 1942, gage height, 6.55 ft, from rating curve extended above 1100 ft³/s.

f-Maximum gage height for statistical period, 5.76 ft, Dec 4, 1978, backwater from ice.

09346400 SAN JUAN RIVER NEAR CARRACAS, CO

LOCATION.--Lat 37°00'49", long 107°18'42", in SE¹/4SW¹/4 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 mi², 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 and crest-stage gage. Elevation of gage is 6,090 ft above sea level, from river-profile map.

REMARKS.--Estimated daily discharges: Nov. 15 to Feb. 6, Apr. 9-12, and June 18 to Aug. 9. 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 elsewhere in 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	246	279	240	220	210	821	760	1280	1550	4000	810	458
2	269	254	260	210	220	917	756	1330	1930	4000	680	405
3	205	268	250	230	220	790	777	1440	2160	3650	620	362
4	196	320	280	220	220	917	805	1330	2360	3300	570	333
5	225	289	300	230	230	1100	976	1350	2270	3000	530	308
6	344	278	310	230	230	5810	1200	1410	2920	3000	480	289
7	317	299	300	220	239	2520	1360	1290	2810	3300	460	299
8	264	315	280	220	253	1170	1490	1220	2490	3500	440	354
9	258	349	270	220	251	816	1500	1130	2420	3750	400	428
10	244	311	260	220	231	851	1300	1100	2290	3600	380	420
11	235	294	250	220	200	1040	1000	1150	2180	3400	410	417
12	226	774	250	220	196	1910	780	1190	2590	3150	429	368
13	204	723	260	220	183	1220	851	1210	3490	2850	577	317
14	204	458	270	220	377	1090	977	1140	4460	2700	485	310
15	282	500	250	220	748	1250	970	1400	4210	2400	437	311
16	337	630	240	210	523	1440	873	1970	3710	2450	369	284
17	295	720	240	210	419	1520	852	2160	4210	2400	373	263
18	294	670	250	190	408	1530	833	1920	5200	2250	356	249
19	294	640	250	180	423	1570	815	1820	4900	2200	311	263
20	321	640	260	200	489	1600	814	1760	4300	2050	390	249
21	321	660	260	210	580	1510	805	1930	4200	1900	429	226
22	349	590	260	210	626	1800	879	2360	4100	1700	594	221
23	367	480	250	200	681	1510	871	2660	4000	1550	941	217
24	379	390	250	190	750	1390	871	2130	3800	1400	778	208
25	368	390	260	210	760	1200	928	1890	3700	1350	644	208
26	333	310	260	230	734	1020	988	1760	3500	1250	657	217
27	327	240	240	220	742	874	1020	1670	3400	1200	579	213
28	300	210	230	210	717	871	961	1670	3300	1100	608	212
29	321	200	240	200	---	834	1040	1630	3200	1000	714	286
30	316	220	250	190	---	762	1140	1560	3500	940	627	592
31	310	---	250	190	---	778	---	1500	---	900	528	---
TOTAL	8951	12701	8020	6570	11860	42431	29192	49360	99150	75240	16606	9287
MEAN	289	423	259	212	424	1369	973	1592	3305	2427	536	310
MAX	379	774	310	230	760	5810	1500	2660	5200	4000	941	592
MIN	196	200	230	180	183	762	756	1100	1550	900	311	208
AC-FT	17750	25190	15910	13030	23520	84160	57900	97910	196700	149200	32940	18420

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1995, BY WATER YEAR (WY)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	318	252	178	161	202	632	1150	1792	1935	710	338	293													
MAX	932	983	406	296	481	1369	2524	3195	4080	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1971 - 1995

ANNUAL TOTAL	252580	369368	
ANNUAL MEAN	692	1012	a 664
HIGHEST ANNUAL MEAN			1201
LOWEST ANNUAL MEAN			200
HIGHEST DAILY MEAN	3240	5810	b 6700
LOWEST DAILY MEAN	94	180	c 28
ANNUAL SEVEN-DAY MINIMUM	104	197	d 39
INSTANTANEOUS PEAK FLOW		8590	e 8590
INSTANTANEOUS PEAK STAGE		8.10	f 8.10
INSTANTANEOUS LOW FLOW			28
ANNUAL RUNOFF (AC-FT)	501000	732600	481200
10 PERCENT EXCEEDS	2040	2620	1790
50 PERCENT EXCEEDS	294	580	294
90 PERCENT EXCEEDS	183	220	110

a-Average discharge for 9 years (water years 1962-70), 632 ft³/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 ft³/s, Dec 10, 1961, result of freezeup.

d-Maximum discharge and stage for period of record, 9730 ft³/s, Sep 6, 1970, gage height, 8.34 ft, from rating curve extended above 6000 ft³/s, on basis of slope-area measurement of peak flow.

e-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 NE¹/4SW¹/4 sec.21, T.33 N., R.5 W., Archuleta County, Hydrologic Unit 14080102, on left bank 2.5 mi upstream from Navajo Reservoir, 3.0 mi downstream from Ignacio Creek, and 4.6 mi northeast of Arboles Post Office.

DRAINAGE AREA.--629 mi².

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. Datum of gage is 6,147.52 ft above sea level, Colorado State Highway Department benchmark.

REMARKS.--Estimated daily discharges: Nov. 16 to Dec. 8, Jan. 5, 6, 9, 12-18, 20-22, 29, Feb.1 and July 29 to Aug. 9. Records fair except those 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 elsewhere in 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	191	110	106	98	588	464	1160	1010	2130	300	201
2	162	184	135	104	102	630	469	1230	1270	1940	265	178
3	140	204	135	111	108	573	486	1300	1440	1630	240	168
4	131	215	130	111	113	671	583	1220	1510	1420	220	155
5	183	201	150	110	116	632	692	1280	1510	1210	210	143
6	204	194	145	110	120	2250	844	1270	1880	1260	185	134
7	185	201	155	107	126	919	963	1120	1780	1390	180	138
8	172	218	140	106	131	612	1060	1020	1540	1420	160	153
9	159	240	114	110	136	473	1140	924	1470	1370	145	187
10	153	208	87	111	129	464	918	947	1440	1370	139	221
11	145	208	108	111	118	576	749	1050	1460	1330	131	222
12	134	496	116	110	123	1170	683	1060	1710	1250	128	187
13	129	354	118	105	123	919	729	1060	2040	1130	159	166
14	123	262	121	105	250	825	857	959	2140	1010	162	148
15	164	202	107	105	311	891	863	1200	2370	907	153	139
16	165	250	106	105	196	1020	770	1690	2370	856	142	126
17	162	365	102	100	178	1040	724	1660	2700	808	139	121
18	159	380	102	96	175	1250	657	1410	3290	807	134	116
19	159	345	104	89	178	1280	625	1350	2510	777	129	121
20	168	340	104	95	190	1410	605	1390	2370	682	142	109
21	171	345	104	100	236	1320	624	1690	2320	606	156	104
22	187	345	103	100	285	1540	651	1990	2220	548	252	97
23	204	290	104	97	329	1270	638	2000	2060	499	303	93
24	218	210	111	99	382	1170	645	1700	1870	443	281	91
25	208	205	111	106	435	894	652	1390	1780	410	306	91
26	198	210	109	106	441	734	665	1240	1730	379	311	93
27	191	160	104	106	436	588	701	1100	1740	364	278	93
28	187	100	95	99	452	566	730	1100	1530	358	281	101
29	204	88	99	96	---	547	837	1070	1480	355	311	196
30	211	80	111	91	---	465	1010	1060	1760	350	278	296
31	208	---	113	93	---	469	---	993	---	330	230	---
TOTAL	5342	7291	3553	3200	6017	27756	22034	39633	56300	29339	6450	4388
MEAN	172	243	115	103	215	895	734	1278	1877	946	208	146
MAX	218	496	155	111	452	2250	1140	2000	3290	2130	311	296
MIN	123	80	87	89	98	464	464	924	1010	330	128	91
AC-FT	10600	14460	7050	6350	11930	55050	43700	78610	111700	58190	12790	8700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1995, BY WATER YEAR (WY)

	MEAN	178	128	92.0	76.5	95.9	327	908	1322	1090	359	211	209
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	125	168	121	69.8	37.0	35.3	
(WY)	1979	1968	1990	1990	1964	1964	1977	1977	1977	1972	1972	1978	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1963 - 1995

ANNUAL TOTAL	134931	211303	
ANNUAL MEAN	370	579	417
HIGHEST ANNUAL MEAN			822
LOWEST ANNUAL MEAN			94.0
HIGHEST DAILY MEAN	1630	3290	5360
LOWEST DAILY MEAN	50	80	19
ANNUAL SEVEN-DAY MINIMUM	54	94	26
INSTANTANEOUS PEAK FLOW		3780	a 8370
INSTANTANEOUS PEAK STAGE		4.87	b 6.38
ANNUAL RUNOFF (AC-FT)	267600	419100	302100
10 PERCENT EXCEEDS	1150	1460	1230
50 PERCENT EXCEEDS	165	252	154
90 PERCENT EXCEEDS	65	104	55

a-From rating curve extended above 4,400 ft³/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 bench-mark 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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 7,906.08 ft above sea level.

REMARKS.--Estimated daily discharges: Oct. 1 to Nov. 10, Nov. 30 to Dec. 3, Dec. 10-12, 16, 17, 28, 29, Jan. 1-3, 14, 17-20, 23, 24, 29, 31, Feb. 1, 5-9, 11, 17 and Feb. 18. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	68	50	32	27	47	57	122	359	1050	281	121
2	105	68	50	31	28	46	58	127	540	837	264	111
3	96	70	51	34	28	44	57	133	575	730	237	114
4	96	70	52	35	30	45	61	140	631	595	233	103
5	105	66	50	34	30	43	74	156	764	600	227	96
6	105	67	50	33	32	36	88	144	894	788	212	94
7	105	68	50	34	33	38	107	131	738	862	202	101
8	100	69	49	34	34	40	124	122	603	840	206	144
9	94	68	44	32	34	42	133	124	545	932	213	153
10	88	66	44	32	34	45	117	139	630	940	221	143
11	85	72	44	30	34	53	105	147	804	899	227	127
12	84	80	45	30	34	56	100	150	1040	857	270	114
13	80	80	45	29	34	54	109	137	1210	746	278	104
14	85	74	43	30	27	56	122	134	1290	634	210	96
15	90	71	43	30	16	70	122	200	1350	593	180	92
16	87	71	42	29	21	80	113	327	1180	631	161	83
17	90	68	42	28	21	89	107	314	1120	569	147	81
18	88	68	41	25	22	84	100	286	973	505	149	79
19	86	65	41	26	23	92	94	308	899	535	155	73
20	86	65	41	28	27	94	86	373	1040	475	270	67
21	86	62	41	29	33	100	82	533	1050	449	208	65
22	85	60	40	27	38	105	77	669	989	395	344	59
23	85	56	38	27	40	100	72	625	1010	329	329	55
24	85	57	38	27	46	96	69	506	936	309	227	52
25	83	58	38	27	49	88	71	383	987	339	189	52
26	80	58	37	28	45	81	72	297	1030	348	188	54
27	77	53	35	27	46	73	77	265	940	347	228	55
28	73	50	35	26	47	68	84	285	732	346	187	78
29	72	41	36	25	---	66	98	256	798	337	183	143
30	71	48	37	24	---	61	117	231	831	332	149	132
31	70	---	36	26	---	58	---	240	---	316	128	---
TOTAL	2722	1937	1328	909	913	2050	2753	8004	26488	18465	6703	2841
MEAN	87.8	64.6	42.8	29.3	32.6	66.1	91.8	258	883	596	216	94.7
MAX	105	80	52	35	49	105	133	669	1350	1050	344	153
MIN	70	41	35	24	16	36	57	122	359	309	128	52
AC-FT	5400	3840	2630	1800	1810	4070	5460	15880	52540	36630	13300	5640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1995, BY WATER YEAR (WY)

MEAN	79.6	44.6	27.7	21.4	20.2	33.9	112	398	538	252	134	116
MAX	280	104	52.0	42.5	44.5	80.8	226	629	927	596	233	455
(WY)	1973	1987	1986	1986	1986	1989	1989	1993	1980	1995	1968	1970
MIN	22.3	16.7	9.89	9.51	8.42	9.11	40.3	138	152	80.5	45.4	25.1
(WY)	1979	1976	1977	1977	1977	1977	1964	1977	1977	1972	1978	1978

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1963 - 1995

ANNUAL TOTAL	44125	75113	
ANNUAL MEAN	121	206	
HIGHEST ANNUAL MEAN			148
LOWEST ANNUAL MEAN			226
HIGHEST DAILY MEAN	740	Jun 4	63.3
LOWEST DAILY MEAN	21	Feb 23	6.7
ANNUAL SEVEN-DAY MINIMUM	23	Feb 9	7.4
INSTANTANEOUS PEAK FLOW		1630	Jun 15
INSTANTANEOUS PEAK STAGE		3.16	Jun 15
ANNUAL RUNOFF (AC-FT)	87520	149000	107600
10 PERCENT EXCEEDS	380	632	423
50 PERCENT EXCEEDS	62	85	62
90 PERCENT EXCEEDS	26	32	18

a-From rating curve extended above 1400 ft³/s, on basis of slope-area measurement of peak flow.
b-Maximum gage height, 6.51 ft, from water-stage recorder, 6.76 ft, from floodmarks.

09352900 VALLECITO CREEK NEAR BAYFIELD, CO--Continued
(Hydrologic Bench-Mark Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1968; October 1969 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1962 to September 1982.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 20.0°C July 10, 1974; minimum, 0.0°C on many days during winter months each year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

		DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	
NOV 10...	1130	66	65	7.7	2.0	0.4	11.0	<1	<1	29	8.6	
MAR 22...	1330	103	74	7.8	4.5	1.2	--	<1	<1	33	10	
MAY 30...	1145	217	75	7.7	4.5	0.6	11.4	<1	<1	33	10	
SEP 05...	1440	96	51	7.1	11.5	0.2	8.0	K1	11	20	5.9	
DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- ^A BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- ^B LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	
NOV 10...	1.8	0.8	0.1	0.5	35	28	26	6.0	0.3	0.2	3.6	
MAR 22...	2.0	1.0	0.1	0.5	36	26	28	5.3	0.3	0.2	4.6	
MAY 30...	1.9	0.7	0.0	0.5	41	34	30	5.6	0.2	0.2	3.9	
SEP 05...	1.3	0.6	0.1	0.3	16	14	16	5.8	0.1	0.2	3.0	
DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	
NOV 10...	39	40	0.05	6.95	<0.01	0.09	<0.01	<0.20	<0.01	<0.01	<0.01	
MAR 22...	45	42	0.06	12.5	<0.01	0.09	<0.01	<0.20	0.01	<0.01	<0.01	
MAY 30...	54	43	0.07	31.6	<0.01	0.12	<0.01	<0.20	0.06	<0.01	<0.01	
SEP 05...	29	25	0.04	7.52	<0.01	0.07	<0.01	<0.20	<0.01	<0.01	<0.01	
DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
NOV 10...	40	13	<3	16	<4	5	<10	1	<1	<1	23	<6
MAR 22...	80	13	<3	51	<4	3	<10	<1	<1	<1	26	<6
MAY 30...	70	13	<3	27	<4	13	20	<1	<1	<1	23	<6
SEP 05...	70	9	<3	3	<4	4	<10	<1	<1	<1	16	<6

A-Field dissolved bicarbonate, determined by incremental titration method.

B-Field total dissolved alkalinity, determined by incremental titration method.

K-Based on non-ideal colony count.

SAN JUAN RIVER BASIN

09352900 VALLECITO CREEK NEAR BAYFIELD, CO--Continued

RADIOCHEMICAL ANALYSIS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
NOV 10...	1130	0.03	0.40
MAY 30...	1145	0.03	0.42

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
MAY 10...	1520	141	81	5.5	JUL 27...	1130	328	34	6.5
JUN 16...	1255	1170	46	5.5					

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
NOV 10...	1130	66	3	0.53
MAR 22...	1330	103	4	1.1
MAY 30...	1145	217	2	1.2

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 m², 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, 3,395 acre-ft. Figures given are usable contents. Reservoir is used to store water for irrigation in Los Pinos (Pine) River basin and provide hydroelectric power.

COOPERATION.--Records provided by Pine River Irrigation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 128,200 acre-ft, July 27, 1957, elevation, 7,665.72 ft; minimum, 1,520 acre-ft, Oct. 24-25, 1944, elevation, 7,584.10 ft. No usable storage prior to April 1941.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 122,890 acre-ft, July 11, elevation, 7,663.99 ft; minimum, 41,310 acre-ft, May 14, elevation, 7,627.91 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0900, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	7,635.29	54,820	
Oct. 31.	7,637.44	59,120	+4,300
Nov. 30.	7,641.69	68,100	+8,980
Dec. 31.	7,643.58	72,270	+4,170
CAL YR 1994.			-1,880
Jan. 31.	7,644.94	75,320	+3,050
Feb. 28.	7,645.99	77,720	+2,400
Mar. 31.	7,640.07	64,610	-13,110
Apr. 30.	7,630.31	45,490	-19,120
May 31.	7,635.70	55,620	+10,130
June 30.	7,657.98	107,030	+51,410
July 31.	7,662.90	119,950	+12,920
Aug. 31.	7,655.62	101,020	-18,930
Sept. 30.	7,646.51	78,930	-22,090
WTR YR 1995.			+24,110

09354500 LOS PINOS RIVER AT LA BOCA, CO

LOCATION.--Lat 37°00'34", long 107°35'56", in NE¹/4NW¹/4 sec.22, T.32 N., R.7 W., La Plata County, Hydrologic Unit 14080101, on downstream end of right abutment of the Denver & Rio Grande Western Railroad Co. bridge, at southeast edge of La Boca, 0.5 mi upstream from Spring Creek, and 2 mi upstream from maximum elevation of Navajo Reservoir.

DRAINAGE AREA.--510 mi², 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.--Estimated daily discharges: Nov. 10 to Dec. 19, Dec. 22-24, Jan. 1-4, 7, 8, 18-31 and Sept. 11-30. Records good except those 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood on Oct. 5, 1911 has not yet been exceeded.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	67	96	92	57	340	782	803	219	1260	133	217
2	138	67	98	90	59	455	775	782	202	746	123	206
3	137	92	100	86	67	416	700	768	213	405	125	206
4	130	129	105	90	75	638	582	734	199	355	127	189
5	137	115	115	112	87	703	562	733	209	296	132	173
6	135	99	165	110	111	2510	521	747	183	268	142	161
7	115	93	255	110	140	1100	549	740	167	315	142	188
8	110	93	150	98	147	812	609	726	164	751	142	195
9	108	97	83	89	128	409	785	595	164	909	147	213
10	107	100	88	89	132	372	755	574	164	1050	152	220
11	107	98	98	110	118	390	727	550	155	1190	155	230
12	107	140	105	119	88	705	699	515	148	1200	161	230
13	107	245	110	95	117	822	712	469	150	1170	164	210
14	122	165	96	87	283	788	801	426	256	941	170	190
15	296	135	85	83	466	810	941	401	949	881	153	180
16	268	120	83	81	204	837	928	359	1010	702	158	170
17	187	115	82	93	134	824	912	305	1080	746	164	160
18	159	110	85	90	120	755	912	246	1680	754	155	150
19	145	110	86	77	113	802	951	205	1780	768	164	150
20	147	115	95	50	110	817	921	171	1750	713	243	140
21	140	115	93	55	183	762	936	153	1640	600	241	130
22	133	115	96	62	247	788	955	257	1640	533	320	125
23	130	110	100	57	271	734	905	224	1620	459	292	120
24	130	110	90	50	294	712	920	206	1760	391	279	115
25	130	115	93	45	326	665	912	209	1740	285	317	115
26	128	110	93	48	331	617	912	177	1720	214	348	115
27	127	105	91	50	327	642	853	173	1680	186	349	120
28	125	92	93	50	322	800	797	167	1690	170	331	125
29	125	90	93	53	---	803	789	229	1650	153	309	160
30	120	94	95	54	---	789	803	282	1340	148	295	300
31	86	---	92	55	---	775	---	249	---	143	235	---
TOTAL	4290	3361	3209	2430	5057	23392	23906	13175	27322	18702	6368	5203
MEAN	138	112	104	78.4	181	755	797	425	911	603	205	173
MAX	296	245	255	119	466	2510	955	803	1780	1260	349	300
MIN	86	67	82	45	57	340	521	153	148	143	123	115
AC-FT	8510	6670	6370	4820	10030	46400	47420	26130	54190	37100	12630	10320

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1995, BY WATER YEAR (WY)

MEAN	196	140	105	76.7	101	218	357	451	513	311	217	205
MAX	672	709	396	182	362	972	1339	1719	1555	1381	878	706
(WY)	1987	1987	1983	1985	1993	1993	1979	1958	1979	1957	1957	1970
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 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1951 - 1995
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ANNUAL TOTAL	76354		136415				
ANNUAL MEAN	209		374			245	
HIGHEST ANNUAL MEAN						582	1973
LOWEST ANNUAL MEAN						77.4	1959
HIGHEST DAILY MEAN	1520	Jun 23	2510	Mar 6		4560	Jul 27 1957
LOWEST DAILY MEAN	44	Feb 1	45	Jan 25		6.1	May 1 1977
ANNUAL SEVEN-DAY MINIMUM	50	Jan 31	50	Jan 24		8.3	Apr 30 1977
INSTANTANEOUS PEAK FLOW			3590	Mar 6		a 6400	Jul 27 1957
INSTANTANEOUS PEAK STAGE			7.61	Mar 6		b 8.95	Jul 27 1957
ANNUAL RUNOFF (AC-FT)	151400		270600			177500	
10 PERCENT EXCEEDS	321		907			550	
50 PERCENT EXCEEDS	148		171			134	
90 PERCENT EXCEEDS	85		90			50	

a-From rating curve extended above 5100 ft³/s.

b-Maximum gage height, 9.00 ft, backwater from ice, sometime during period, Dec 23, 1990 to Jan 17, 1991.

09355000 SPRING CREEK AT LA BOCA, CO

LOCATION.--Lat 37°00'40", long 107°35'47", in SE¹/4SW¹/4 sec.15, T.32 N., R.7 W., La Plata County, Hydrologic Unit 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 mi², 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.--Estimated daily discharges: Oct. 17 to Nov. 3, Nov. 6-11, Nov. 14 to Dec. 23, Dec. 26-29, Jan. 1 to Feb. 6, Feb. 17-28 and June 9-20. Records fair except those 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	12	8.2	5.5	22	26	5.5	9.9	51	76	68	69
2	44	13	8.4	7.5	25	74	5.3	17	44	74	60	68
3	41	15	10	8.0	30	44	5.1	18	48	75	59	65
4	44	21	12	9.5	30	140	4.7	20	49	76	63	58
5	45	18	16	12	28	176	4.7	24	59	72	60	59
6	39	16	22	12	25	918	5.8	28	58	69	65	67
7	32	15	9.0	12	30	71	6.3	29	53	69	64	76
8	28	14	7.0	13	22	19	6.7	23	55	73	62	75
9	27	15	7.0	15	26	14	7.1	25	54	71	60	82
10	24	14	8.0	17	25	15	7.5	28	52	75	61	79
11	24	16	9.0	18	16	19	6.3	31	52	68	59	82
12	24	288	8.0	16	9.5	29	5.5	23	55	67	61	75
13	25	45	7.0	15	13	16	4.7	34	50	62	65	72
14	27	30	6.4	15	67	12	4.7	39	45	65	68	75
15	93	18	6.4	13	73	13	4.7	35	42	73	67	78
16	52	14	6.6	10	18	15	4.7	27	50	71	68	72
17	19	14	6.0	8.5	16	15	4.4	46	60	94	71	68
18	18	13	5.4	9.0	15	17	4.3	47	110	110	68	63
19	18	14	5.0	10	14	15	6.6	53	84	128	73	59
20	17	14	6.0	9.0	14	15	7.5	53	75	95	94	58
21	16	14	7.0	8.0	16	13	11	51	63	88	84	57
22	15	14	7.0	10	16	15	11	46	59	90	110	55
23	15	13	7.5	11	15	12	9.0	41	60	79	80	59
24	15	13	7.9	13	15	11	9.8	42	61	74	86	57
25	16	13	6.2	19	14	9.4	9.9	46	62	74	120	60
26	15	11	6.2	14	14	7.6	11	45	65	71	114	61
27	14	10	6.2	12	15	7.1	11	45	63	68	130	62
28	13	9.2	6.0	12	16	6.3	9.9	47	59	72	91	80
29	13	8.0	6.0	13	---	6.3	24	68	67	72	109	107
30	13	7.6	5.9	15	---	5.9	11	72	72	75	81	81
31	13	---	5.5	20	---	5.5	---	57	---	73	74	---
TOTAL	861	731.8	244.8	382.0	639.5	1762.1	229.7	1169.9	1777	2399	2395	2079
MEAN	27.8	24.4	7.90	12.3	22.8	56.8	7.66	37.7	59.2	77.4	77.3	69.3
MAX	93	288	22	20	73	918	24	72	110	128	130	107
MIN	13	7.6	5.0	5.5	9.5	5.5	4.3	9.9	42	62	59	55
AC-FT	1710	1450	486	758	1270	3500	456	2320	3520	4760	4750	4120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1995, BY WATER YEAR (WY)

	MEAN	35.3	10.9	5.56	4.75	10.5	19.4	13.8	39.6	57.6	66.2	66.1	58.9
MAX	87.9	29.6	20.4	19.3	54.8	89.7	41.1	64.5	79.3	90.1	105	92.0	
(WY)	1973	1956	1985	1980	1980	1979	1979	1992	1986	1987	1987	1983	
MIN	5.25	3.68	1.74	2.04	2.55	3.03	3.77	15.7	24.4	21.2	32.1	26.5	
(WY)	1978	1978	1960	1973	1960	1972	1978	1978	1977	1977	1977	1951	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1951 - 1995

ANNUAL TOTAL	11888.8	14670.8	
ANNUAL MEAN	32.6	40.2	32.8
HIGHEST ANNUAL MEAN			47.7
LOWEST ANNUAL MEAN			15.6
HIGHEST DAILY MEAN	288	Nov 12	918
LOWEST DAILY MEAN	2.2	Feb 1	4.3
ANNUAL SEVEN-DAY MINIMUM	2.5	Jan 30	4.7
INSTANTANEOUS PEAK FLOW			^a 1740
INSTANTANEOUS PEAK STAGE			5.28
ANNUAL RUNOFF (AC-FT)	23580	29100	^b 1980
10 PERCENT EXCEEDS	73	75	71
50 PERCENT EXCEEDS	18	24	24
90 PERCENT EXCEEDS	3.7	6.9	3.4

a-Discharge determined on the basis of slope-area measurement of peak flow.

b-From rating curve extended above 160 ft³/s, on the basis of field estimate of peak flow.

c-Maximum gage height, 5.98 ft, Mar 9, 1960, backwater from ice.

09358000 ANIMAS RIVER AT SILVERTON, CO

LOCATION.--Lat 37°48'40", long 107°39'31", in SE¹/4NW¹/4 sec.17, T.41 N., R.7 W., San Juan County, Hydrologic Unit 14080104, on right bank at southeast end of 14th Street, 800 feet upstream from Cement Creek, in the city of Silverton.

DRAINAGE AREA.--70.6 mi².

PERIOD OF RECORD.--June to October 1903 (staff gage) monthly discharge only. Published in WSP 1313. October 1991 to September 1993. October 1994 to current year.

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

GAGE.--Water-stage recorder. Elevation of gage is 9,290 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1 to Nov.8, Nov. 13 to Apr. 12, and Sept. 5-7. Records fair except those 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 elsewhere in 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	51	41	34	34	41	35	56	232	820	436	136
2	97	51	41	32	35	41	35	60	375	695	399	129
3	88	50	40	34	35	41	35	58	439	656	353	121
4	88	47	43	33	35	41	37	60	431	466	320	113
5	92	46	42	33	35	41	41	67	497	388	325	110
6	94	48	42	33	35	41	48	61	647	533	307	110
7	90	49	41	33	36	40	56	61	560	729	280	110
8	86	48	40	33	36	37	63	57	454	804	290	120
9	84	49	38	34	36	37	72	56	435	990	281	122
10	80	45	35	35	35	41	68	60	426	1080	291	113
11	78	46	31	35	35	47	60	64	562	1100	317	104
12	78	48	32	35	34	53	52	71	909	1170	297	97
13	74	48	33	35	33	48	55	65	1020	1050	278	91
14	73	47	34	35	35	44	61	70	1090	898	245	86
15	72	44	33	35	34	44	60	108	1100	856	219	81
16	72	44	34	34	32	47	56	149	946	939	194	77
17	71	45	34	33	32	53	54	144	988	834	184	74
18	70	45	34	32	32	50	50	138	754	759	187	73
19	69	45	34	34	32	50	50	163	706	865	193	68
20	68	45	35	36	33	48	47	233	916	866	265	66
21	66	45	34	34	36	46	44	306	1050	763	221	65
22	65	42	33	34	39	46	42	393	1090	647	216	60
23	64	40	34	36	41	47	41	403	1070	583	209	57
24	64	40	34	34	42	45	40	336	1060	555	190	56
25	63	39	34	34	43	44	40	263	1110	571	187	53
26	60	40	34	33	43	41	43	213	1100	585	207	55
27	59	40	34	34	42	40	46	188	995	552	239	53
28	57	39	33	34	41	39	50	176	803	538	214	63
29	57	38	33	33	---	37	57	168	859	532	184	81
30	56	39	34	33	---	37	63	151	872	490	163	78
31	53	---	34	32	---	36	---	154	---	455	147	---
TOTAL	2288	1343	1108	1049	1011	1343	1501	4552	23496	22769	7838	2622
MEAN	73.8	44.8	35.7	33.8	36.1	43.3	50.0	147	783	734	253	87.4
MAX	100	51	43	36	43	53	72	403	1110	1170	436	136
MIN	53	38	31	32	32	36	35	56	232	388	147	53
AC-FT	4540	2660	2200	2080	2010	2660	2980	9030	46600	45160	15550	5200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	46.9	32.9	24.6	21.3	22.7	27.8	52.0	278	601	420	154	77.7
MAX	73.8	44.8	35.7	33.8	36.1	43.3	66.4	383	783	734	253	89.8
(WY)	1995	1995	1995	1995	1995	1995	1992	1993	1995	1995	1995	1993
MIN	33.4	27.0	18.9	13.8	15.7	18.6	39.6	147	403	196	84.5	55.8
(WY)	1993	1993	1992	1992	1992	1992	1993	1995	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1992 - 1995

ANNUAL TOTAL	70920	
ANNUAL MEAN	194	147
HIGHEST ANNUAL MEAN		194
LOWEST ANNUAL MEAN		103
HIGHEST DAILY MEAN	1170	1170
LOWEST DAILY MEAN	31	12
ANNUAL SEVEN-DAY MINIMUM	33	13
INSTANTANEOUS PEAK FLOW	a ¹ 1450	a ¹ 1450
INSTANTANEOUS PEAK STAGE	a ¹ 3.34	b ² 3.34
ANNUAL RUNOFF (AC-FT)	140700	106500
10 PERCENT EXCEEDS	672	437
50 PERCENT EXCEEDS	57	47
90 PERCENT EXCEEDS	34	17

a-Also occurred July 12, 1995.

b-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 SW¹/4SW¹/4 sec.8, T.41 N., R.7 W., San Juan County, Hydrologic Unit 14080104, on left bank, at abandoned railroad, crossing Cement Creek, 0.1 mile north of Silverton, and 0.8 mile upstream from mouth.

DRAINAGE AREA.--20.1 mi².

PERIOD OF RECORD.--October 1991 to September 1993, October 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 9,380 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1-11, and Nov. 14 to Apr. 7. 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 elsewhere in 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	18	17	15	16	21	19	26	111	254	69	29
2	27	18	17	15	17	21	19	25	169	225	63	29
3	24	18	17	16	17	21	19	24	189	201	57	27
4	25	18	18	15	17	21	20	25	177	152	54	26
5	26	18	18	15	17	21	23	27	208	143	54	25
6	26	18	18	15	17	21	27	25	239	176	51	26
7	25	18	18	15	18	20	30	25	195	199	48	27
8	24	19	17	15	18	19	38	24	165	211	52	31
9	23	18	16	16	17	19	38	23	160	243	53	30
10	22	18	15	16	17	20	29	23	166	238	51	28
11	21	18	14	16	17	24	25	24	203	218	52	27
12	21	18	13	16	17	28	24	25	280	203	53	26
13	20	18	15	16	16	25	26	24	320	189	51	25
14	21	18	15	16	17	23	29	28	376	160	47	24
15	21	18	15	16	17	24	29	50	383	151	43	24
16	20	18	15	16	16	26	26	67	385	148	40	23
17	20	18	15	15	16	28	25	57	372	132	39	23
18	20	19	15	15	16	26	23	50	269	123	38	22
19	20	19	15	16	16	26	23	71	231	125	41	22
20	20	19	15	17	16	26	22	93	280	125	49	21
21	21	18	15	16	17	24	19	115	329	116	42	21
22	21	18	15	16	19	25	20	158	342	108	42	20
23	21	17	15	17	20	25	19	161	324	97	43	20
24	20	17	15	16	21	25	17	123	321	90	39	20
25	20	17	15	16	22	23	15	92	320	92	41	19
26	20	17	15	16	22	22	17	73	324	91	40	21
27	19	17	15	16	22	21	22	70	292	87	39	20
28	19	16	15	16	21	20	23	66	251	83	37	23
29	19	16	15	16	---	20	27	62	249	81	34	27
30	19	17	16	16	---	20	30	56	259	78	32	26
31	18	---	16	16	---	20	---	62	---	72	30	---
TOTAL	672	534	485	489	499	705	723	1774	7889	4611	1424	732
MEAN	21.7	17.8	15.6	15.8	17.8	22.7	24.1	57.2	263	149	45.9	24.4
MAX	29	19	18	17	22	28	38	161	385	254	69	31
MIN	18	16	13	15	16	19	15	23	111	72	30	19
MED	21	18	15	16	17	22	23	50	264	143	43	24
AC-FT	1330	1060	962	970	990	1400	1430	3520	15650	9150	2820	1450

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

	1992	1993	1994	1995	1992	1993	1994	1995	1992	1993	1994	1995
MEAN	17.1	15.1	12.4	11.3	12.6	16.6	28.3	94.8	183	86.8	31.9	22.2
MAX	21.7	17.8	15.6	15.8	17.8	22.7	35.2	133	263	149	45.9	24.4
(WY)	1995	1995	1995	1995	1995	1995	1992	1993	1995	1995	1995	1995
MIN	14.0	13.3	10.6	8.63	9.91	13.4	24.1	57.2	95.1	46.8	23.0	20.5
(WY)	1992	1992	1992	1992	1993	1993	1995	1995	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1992 - 1995

ANNUAL TOTAL	20537			
ANNUAL MEAN	56.3			
HIGHEST ANNUAL MEAN			44.4	
LOWEST ANNUAL MEAN			56.3	1995
HIGHEST DAILY MEAN	385	Jun 16	32.1	1992
LOWEST DAILY MEAN	13	Dec 12	7.5	Jun 2 1992
ANNUAL SEVEN-DAY MINIMUM	15	Dec 10	8.4	Dec 30 1991
INSTANTANEOUS PEAK FLOW	471	Jun 14	471	Jun 14 1995
INSTANTANEOUS PEAK STAGE	2.85	Jun 14	2.85	Jun 14 1995
ANNUAL RUNOFF (AC-FT)	40740		32130	
10 PERCENT EXCEEDS	172		113	
50 PERCENT EXCEEDS	23		20	
90 PERCENT EXCEEDS	16		10	

09359010 MINERAL CREEK AT SILVERTON, CO

LOCATION.--Lat 37°48'10", long 107°40'20", in NW1/4NE1/4 sec.19, T.41 N., R.7 W., San Juan County, Hydrologic Unit 14080104, on right bank at southwest end of Greene Street at abandoned bridge crossing Mineral Creek, 300 feet downstream from U. S. Highway 550, crossing Mineral Creek, 1,400 feet upstream from mouth, and 0.5 mile southwest of Silverton.

DRAINAGE AREA.--52.5 mi².

PERIOD OF RECORD.--October 1991 to September 1993, October 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is 9,245.982 ft above sea level, from San Juan County bench mark.

REMARKS.--Estimated daily discharges: Oct. 1-11, Nov. 5 and Nov. 13 to Apr. 7. Records fair above 750 ft³/s and good below, except for estimated daily discharges, which are poor. Natural regulation by many lakes upstream from station. Diversions upstream from Mineral Creek drainage to Uncompahgre River drainage consists of 100 to 200 acre-feet per year through Red Mountain Ditch and 400 to 500 acre-feet per year through Carbon Lake Ditch. City of Silverton diverts some water from Bear Creek (tributary) for municipal use. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in 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, 3,070 ft³/s, gage height not determined.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	38	32	25	27	33	30	43	146	682	316	113
2	66	38	32	26	28	33	30	46	212	584	298	108
3	60	38	31	28	28	33	30	43	248	534	275	101
4	62	35	32	26	28	34	32	45	255	396	274	92
5	66	35	33	26	28	33	36	48	315	380	275	88
6	66	38	33	27	29	34	42	44	381	518	257	93
7	63	37	32	27	29	31	48	43	317	636	246	99
8	61	39	31	27	29	30	57	40	261	721	257	118
9	58	36	29	27	29	32	61	40	255	918	258	120
10	56	35	26	28	28	36	51	41	286	898	249	102
11	54	35	23	28	28	42	46	43	361	840	270	91
12	53	36	24	28	27	45	42	46	493	797	259	82
13	51	36	26	28	27	40	45	43	620	691	249	77
14	54	35	26	28	28	36	51	49	718	631	216	74
15	54	33	26	28	27	39	51	82	898	583	187	69
16	50	34	26	27	26	41	48	119	945	581	162	65
17	51	35	26	26	26	43	46	111	774	509	167	63
18	51	35	26	25	26	40	43	101	596	485	162	63
19	50	35	27	29	27	41	40	119	559	540	165	59
20	47	34	27	29	28	39	39	147	703	527	245	56
21	47	34	26	27	31	38	37	182	770	471	179	57
22	47	33	26	27	33	40	33	226	763	439	207	53
23	48	31	26	28	34	39	32	240	774	397	216	50
24	47	30	27	27	36	38	32	201	789	363	183	50
25	45	30	27	27	36	37	32	161	831	393	184	48
26	44	31	27	27	35	34	34	134	864	396	206	51
27	44	30	27	27	34	33	37	127	701	387	212	50
28	43	30	26	27	33	32	39	119	529	385	178	61
29	40	30	27	27	---	31	44	108	609	384	162	81
30	41	30	27	27	---	31	48	99	651	351	142	77
31	38	---	27	26	---	30	---	103	---	329	124	---
TOTAL	1629	1026	861	840	825	1118	1236	2993	16624	16746	6780	2311
MEAN	52.5	34.2	27.8	27.1	29.5	36.1	41.2	96.5	554	540	219	77.0
MAX	72	39	33	29	36	45	61	240	945	918	316	120
MIN	38	30	23	25	26	30	30	40	146	329	124	48
MED	51	35	27	27	28	36	41	99	602	518	216	75
AC-FT	3230	2040	1710	1670	1640	2220	2450	5940	32970	33220	13450	4580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	37.7	28.7	22.1	19.2	20.5	25.8	51.3	215	476	326	139	65.7
MAX	52.5	34.2	27.8	27.1	29.5	36.1	64.2	303	554	540	219	77.0
(WY)	1995	1995	1995	1995	1995	1995	1992	1993	1995	1995	1995	1995
MIN	28.3	24.7	18.3	13.4	14.7	18.4	41.2	96.5	323	180	90.3	55.9
(WY)	1992	1992	1992	1992	1992	1992	1995	1995	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1992 - 1995

ANNUAL TOTAL	52989		
ANNUAL MEAN	145	119	
HIGHEST ANNUAL MEAN		145	1995
LOWEST ANNUAL MEAN		89.7	1992
HIGHEST DAILY MEAN	945	945	Jun 16 1995
LOWEST DAILY MEAN	23	12	Jan 2 1992
ANNUAL SEVEN-DAY MINIMUM	25	13	Jan 12 1992
INSTANTANEOUS PEAK FLOW	1670	1670	Jun 15 1995
INSTANTANEOUS PEAK STAGE	3.41	3.41	Jun 15 1995
ANNUAL RUNOFF (AC-FT)	105100	86330	
10 PERCENT EXCEEDS	488	345	
50 PERCENT EXCEEDS	44	39	
90 PERCENT EXCEEDS	27	17	

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 feet upstream from Durango-Silverton Railroad, crossing Animas River, 0.7 mile downstream from Mineral Creek, and 1.1 miles south of Silverton.

DRAINAGE AREA.--146 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,200 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 15-18, 20, Nov. 23 to Dec. 3, Dec. 9 to Mar. 21 and June 18-20. Records good except those 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	219	111	91	77	79	97	86	143	458	1910	776	301
2	196	110	90	73	82	97	86	148	655	1610	735	288
3	180	109	88	80	82	97	85	142	736	1480	676	274
4	193	101	96	75	81	99	91	148	749	1120	643	254
5	202	103	93	75	82	97	107	163	861	1030	645	240
6	198	107	93	77	84	98	126	149	1090	1320	615	248
7	191	108	90	76	86	92	145	146	959	1660	583	260
8	183	112	89	77	85	87	168	138	828	1770	590	288
9	174	107	84	78	84	89	180	135	785	2110	588	292
10	171	101	74	80	82	104	154	139	811	2350	577	268
11	167	103	68	81	81	124	136	147	1010	2240	608	246
12	162	109	69	82	79	132	129	157	1400	2140	588	227
13	158	103	76	81	78	112	139	149	1640	1850	568	213
14	159	102	76	82	83	103	153	163	1880	1600	518	205
15	158	96	75	80	80	111	153	253	2070	1470	471	197
16	154	97	77	78	75	120	139	345	2040	1520	429	185
17	153	100	76	76	74	130	135	323	2000	1330	419	178
18	151	100	76	74	75	120	126	295	2000	1230	419	178
19	149	101	77	84	77	120	123	356	1800	1350	422	174
20	142	99	79	85	79	118	115	449	2000	1380	539	163
21	141	98	76	78	90	110	108	560	2120	1240	455	160
22	137	93	76	79	96	116	104	702	2140	1120	471	151
23	138	90	77	84	98	113	101	715	2180	1010	470	145
24	137	87	78	81	102	111	99	619	2210	935	428	144
25	132	88	78	78	104	104	101	509	2270	972	425	136
26	129	89	78	78	103	98	106	419	2300	968	454	141
27	126	88	77	79	100	96	115	386	2120	939	480	139
28	125	85	76	78	97	91	125	363	1760	925	434	166
29	122	88	78	78	---	89	140	343	1850	922	397	213
30	123	87	78	77	---	90	160	316	1920	858	360	205
31	109	---	78	75	---	87	---	323	---	809	324	---
TOTAL	4879	2972	2487	2436	2398	3252	3735	9343	46642	43168	16107	6279
MEAN	157	99.1	80.2	78.6	85.6	105	124	301	1555	1393	520	209
MAX	219	112	96	85	104	132	180	715	2300	2350	776	301
MIN	109	85	68	73	74	87	85	135	458	809	324	136
AC-FT	9680	5890	4930	4830	4760	6450	7410	18530	92510	85620	31950	12450

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

	1992	1993	1994	1995
MEAN	106	82.1	63.8	58.5
MAX	157	99.1	80.2	78.6
(WY)	1995	1995	1995	1995
MIN	82.0	70.9	52.5	40.2
(WY)	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1992 - 1995

ANNUAL TOTAL	92450	143698		
ANNUAL MEAN	253	394		
HIGHEST ANNUAL MEAN			301	
LOWEST ANNUAL MEAN			394	1995
HIGHEST DAILY MEAN	1900	Jun 4	2350	Jul 10 1995
LOWEST DAILY MEAN	^a 52	Feb 13	68	Dec 11
ANNUAL SEVEN-DAY MINIMUM	54	Feb 10	74	Dec 10
INSTANTANEOUS PEAK FLOW			2970	Jul 9
INSTANTANEOUS PEAK STAGE			^b 4.89	Jul 9
ANNUAL RUNOFF (AC-FT)	183400	285000	218000	
10 PERCENT EXCEEDS	735	1270	866	
50 PERCENT EXCEEDS	118	138	108	
90 PERCENT EXCEEDS	62	78	52	

a-Also occurred Feb 14, 23.

b-Also occurred Jun 25, 1995.

09359020 ANIMAS RIVER BELOW SILVERTON, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: October 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO
NOV 09...	1130	106	478	7.1	2.5	9.1	230	84	4.6	3.2	0.1
APR 12...	1037	127	478	6.6	1.0	11.2	210	76	4.4	3.0	0.1
JUN 21...	0600	1950	121	7.1	2.0	9.8	50	18	1.3	0.9	0.1
SEP 06...	1115	239	328	6.7	8.0	8.0	140	51	3.0	2.0	0.1

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
NOV 09...	0.8	8.1	220	0.9	0.7	13	--	334	0.45	95.5
APR 12...	0.8	2.6	210	0.9	0.6	14	340	315	0.46	117
JUN 21...	0.4	13	35	0.3	0.2	5.8	80	70	0.11	421
SEP 06...	0.6	17	130	0.4	0.4	9.0	217	209	0.30	140

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)
NOV 09...	30	<1	2.0	<1	10	3300	--
APR 12...	--	--	3.0	--	15	--	2000
JUN 21...	90	<1	1.0	<1	8	4400	130
SEP 06...	30	<1	1.0	<1	3	1200	1200

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 09...	<1	1000	1000	<0.1	<1	<0.2	580
APR 12...	<1	--	1000	0.1	<1	<1	780
JUN 21...	1	720	270	<0.1	<1	<0.2	300
SEP 06...	<1	550	550	<0.1	<1	<0.2	300

09359020 ANIMAS RIVER BELOW SILVERTON, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT					JUL				
04...	1235	193	372	7.5	11...	0800	2030	117	3.5
JAN					AUG				
18...	1315	71	653	0.0	09...	1000	568	192	7.0
JUN									
27...	0650	2150	114	2.5					

LOCATION.--Lat 37°16'45", long 107°52'47", in SW¹/4SW¹/4 sec.20, T.35 N., R.9 W., La Plata County, Hydrologic Unit 14080104, on left bank at abandoned power plant at Durango, 0.8 mi upstream from Lightner Creek.

PERIOD OF RECORD.--June to December 1895, April 1896 to December 1898, April 1899 to December 1900, March to May 1901, April to November 1902, March to April 1903 (gage heights only, erroneously stated as discredited in WSP 1563), May to October 1903, July 1904 to December 1905, January to December 1910 (gage heights only), January to September 1911, January 1912 to current year. Monthly or yearly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder 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.--Estimated daily discharges: Dec. 10 and Jan. 18, 19. 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1898 - 1995, BY WATER YEAR (WY)

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1898 - 1995	
ANNUAL TOTAL	248554		423832			
ANNUAL MEAN	681		1161		826	1917
HIGHEST ANNUAL MEAN					1366	1917
LOWEST ANNUAL MEAN					302	1977
HIGHEST DAILY MEAN	4160	Jun 4	6900	Jun 16	10700	Jun 19 1949
LOWEST DAILY MEAN	150	Feb 1	195	Jan 19	94	Mar 2 1913
ANNUAL SEVEN-DAY MINIMUM	167	Feb 10	217	Jan 18	100	Dec 19 1917
INSTANTANEOUS PEAK FLOW			7310	Jun 16	a 25000	Oct 5 1911
INSTANTANEOUS PEAK STAGE			7.08	Jun 16	11.00	Oct 5 1911
ANNUAL RUNOFF (AC-FT)	493000		840700		598700	
10 PERCENT EXCEEDS	2080		3330		2240	
50 PERCENT EXCEEDS	339		530		341	
90 PERCENT EXCEEDS	191		254		180	

a-Present site and datum, from rating curve extended above 13000 ft³/s.

09362800 LEMON RESERVOIR NEAR DURANGO, CO

LOCATION.--Lat 37°22'57", long 107°39'44", in SE¹/4SW¹/4 sec.17, T.36 N., R.7 W., LaPlata County, Hydrologic Unit 14080104, in gatehouse at Lemon Dam on Florida River, 2.3 mi upstream from True Creek, and 15 mi northeast of Durango.

DRAINAGE AREA.--68.3 mi².

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

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,948.00 ft above sea level, (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations above sea level.

REMARKS.--Reservoir is formed by an earthfill dam. Dam was completed in 1963. Capacity, 40,100 acre-ft, between elevations 7,948.00 ft, sill of outlet gate, and 8,148.00 ft, normal reservoir water surface elevation. Dead storage below elevation 8,005.00 ft, 354 acre-ft. Figures given are total contents.

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 40,160 acre-ft, July 1, elevation, 8,148.03 ft; minimum contents, 14,860 acre-ft, Oct. 1, elevation, 8,096.56

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	8,096.66	14,900	-
Oct. 31.	8,103.08	17,240	+2,340
Nov. 30.	8,106.36	18,520	+1,280
Dec. 31.	8,108.14	19,240	+720
CAL YR 1994.			-5,010
Jan. 31.	8,108.89	19,550	+310
Feb. 28.	8,110.11	20,060	+510
Mar. 31.	8,114.54	22,000	+1,940
Apr. 30.	8,121.81	25,440	+3,440
May 31.	8,101.25	16,550	-8,890
June 30.	8,147.94	40,110	+23,560
July 31.	8,144.99	38,290	-1,820
Aug. 31.	8,130.96	30,230	-8,060
Sept. 30.	8,116.25	22,780	-7,450
WTR YR 1995.			+7,880

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 mi², 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. 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). Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred in October 1911 at this location.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	521	409	e320	286	256	722	e580	1280	2690	5390	1550	842
2	628	411	e325	254	277	799	e570	1220	3420	5460	1480	781
3	571	464	328	286	284	704	e560	1310	4020	4930	1370	735
4	535	484	332	289	297	857	e580	1270	4120	4190	1260	694
5	556	417	348	311	314	1230	639	1410	4390	3490	1230	655
6	581	402	661	313	336	3800	762	1570	4620	3670	1170	597
7	568	410	484	288	374	1080	906	1580	4380	4400	1100	582
8	550	419	385	287	391	616	1060	1650	3670	4580	1060	608
9	510	435	344	290	374	550	1220	1760	3490	4770	1090	733
10	460	417	e300	287	383	547	1200	1880	3700	5060	1080	751
11	449	425	e300	295	361	589	1020	1830	4070	4800	1110	716
12	438	1510	e310	314	353	819	926	1810	5180	4590	1160	670
13	426	738	319	303	356	801	914	1710	6440	4280	1160	627
14	457	501	339	281	530	756	1010	1640	6970	3800	1070	598
15	698	413	316	293	713	824	1100	1780	7280	3310	1000	586
16	611	399	e300	290	409	928	1060	2300	7700	3170	928	564
17	563	428	e290	266	389	1030	977	2560	6540	3110	859	543
18	553	429	324	e230	392	1030	934	2380	7150	2790	812	525
19	516	412	324	e220	408	1050	914	2430	5670	2850	801	512
20	501	404	315	e240	435	1090	868	2610	5750	2980	961	503
21	493	411	318	e270	472	1080	875	2990	6100	2700	1120	487
22	485	416	317	279	551	1170	865	3550	6030	2440	1060	482
23	488	388	319	259	613	1150	825	3860	5430	2250	1090	486
24	493	356	319	237	652	1100	779	3350	5190	2020	1060	471
25	487	366	323	271	696	e1000	752	2860	5550	1900	1040	462
26	472	372	322	303	677	e910	782	2770	5610	1880	1050	454
27	454	361	306	310	617	e830	837	2760	5660	1850	1170	450
28	438	e350	289	275	597	e760	920	2780	4820	1770	1220	478
29	435	e335	288	264	---	e700	993	2800	4630	1730	1160	583
30	433	e320	304	238	---	e650	1150	2740	4880	1710	1040	743
31	435	---	319	228	---	e620	---	2560	---	1610	931	---
TOTAL	15805	13602	10388	8557	12507	29792	26578	69000	155150	103480	34192	17918
MEAN	510	453	335	276	447	961	886	2226	5172	3338	1103	597
MAX	698	1510	661	314	713	3800	1220	3860	7700	5460	1550	842
MIN	426	320	288	220	256	547	560	1220	2690	1610	801	450
AC-FT	31350	26980	20600	16970	24810	59090	52720	136900	307700	205300	67820	35540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1995, BY WATER YEAR (WY)

MEAN	464	341	267	245	260	425	1092	2521	3047	1276	619	523
MAX	2479	1068	555	388	467	1043	2191	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	232	155
(WY)	1957	1934	1957	1954	1964	1977	1977	1977	1934	1934	1934	1956

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1934 - 1995
ANNUAL TOTAL	279474	496969	
ANNUAL MEAN	766	1362	933
HIGHEST ANNUAL MEAN			1713
LOWEST ANNUAL MEAN			340
HIGHEST DAILY MEAN	3640	7700	11800
LOWEST DAILY MEAN	185	220	.00
ANNUAL SEVEN-DAY MINIMUM	217	248	.00
INSTANTANEOUS PEAK FLOW		8380	13100
INSTANTANEOUS PEAK STAGE		10.01	11.45
INSTANTANEOUS LOW FLOW		202	63
ANNUAL RUNOFF (AC-FT)	554300	985700	676000
10 PERCENT EXCEEDS	2200	3920	2440
50 PERCENT EXCEEDS	409	700	409
90 PERCENT EXCEEDS	271	303	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 mi², 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.--Estimated daily discharges: Nov. 20-21, 23-24, Nov. 27 to Dec. 6, Dec. 8-22, 26-29, Dec. 31 to Jan. 7, Jan. 10, 13-14, 16-24, 27-31, Feb. 1-7, 9-11, 13-19, and Mar. 7-9. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	13	7.5	6.0	7.0	29	33	81	117	244	30	20
2	11	14	7.0	6.0	7.0	31	33	85	185	221	29	19
3	12	16	6.5	6.0	7.0	28	34	88	200	187	28	18
4	12	15	6.0	6.5	7.0	31	39	88	216	137	27	17
5	12	14	6.0	7.0	7.5	30	47	98	250	121	27	17
6	12	14	6.0	8.0	7.5	30	57	88	334	151	27	16
7	12	13	6.0	7.0	7.5	26	73	83	323	162	25	16
8	12	14	6.0	9.0	7.6	22	91	79	246	160	29	18
9	12	13	5.5	8.7	7.5	18	95	73	204	169	28	22
10	12	13	5.0	8.5	7.5	18	80	76	240	163	20	19
11	11	14	5.0	8.6	7.5	18	70	78	314	141	20	18
12	11	21	5.5	8.7	8.0	17	68	81	434	131	21	17
13	11	16	6.0	8.5	8.0	15	73	77	500	119	21	16
14	13	14	6.0	8.0	9.0	16	79	73	485	115	21	15
15	13	12	5.5	8.4	10	19	79	88	523	84	20	15
16	12	12	5.0	8.0	7.0	23	73	129	379	79	20	14
17	11	12	5.0	7.0	8.0	34	70	139	362	79	20	13
18	11	11	5.5	6.5	9.0	40	64	124	309	72	18	13
19	11	11	5.5	6.0	10	54	60	127	332	71	19	12
20	12	11	6.0	6.0	10	64	55	153	334	67	20	12
21	12	11	6.0	6.0	11	68	52	207	350	60	21	11
22	11	12	6.0	6.5	11	69	50	248	334	54	23	11
23	11	11	6.4	6.5	11	65	45	247	328	49	25	10
24	11	11	6.4	7.0	13	63	44	191	311	44	23	10
25	11	11	6.4	8.2	18	56	49	147	295	43	41	9.9
26	12	11	6.0	8.2	21	48	52	129	288	40	49	9.6
27	12	10	6.0	8.0	24	44	54	117	285	38	43	9.3
28	12	9.0	6.0	7.0	28	43	57	126	259	37	40	11
29	12	8.0	6.0	7.0	---	41	65	119	285	35	33	11
30	13	8.0	6.2	6.5	---	41	79	103	264	35	25	12
31	13	---	6.0	7.0	---	38	---	97	---	33	22	---
TOTAL	365	375.0	183.9	226.3	296.6	1139	1820	3639	9286	3141	815	431.8
MEAN	11.8	12.5	5.93	7.30	10.6	36.7	60.7	117	310	101	26.3	14.4
MAX	13	21	7.5	9.0	28	69	95	248	523	244	49	22
MIN	11	8.0	5.0	6.0	7.0	15	33	73	117	33	18	9.3
AC-FT	724	744	365	449	588	2260	3610	7220	18420	6230	1620	856

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 1995, BY WATER YEAR (WY)

	MEAN	15.2	10.6	8.22	7.04	7.43	15.1	83.2	173	136	38.9	23.5	20.2
MAX	148	54.3	20.4	15.0	18.0	50.7	203	384	421	154	75.4	124	
(WY)	1942	1942	1987	1926	1971	1989	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	1938	1977	1977	1977	1934	1939	1939	1956	

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1918 - 1995

ANNUAL TOTAL	12581.8	21718.6	
ANNUAL MEAN	34.5	59.5	44.9
HIGHEST ANNUAL MEAN			90.5
LOWEST ANNUAL MEAN			9.94
HIGHEST DAILY MEAN	^a 252	May 30	523 Jun 15
LOWEST DAILY MEAN	^b 5.0	Jan 31	^c 5.0 Dec 10
ANNUAL SEVEN-DAY MINIMUM	5.4	Jan 27	5.4 Dec 10
INSTANTANEOUS PEAK FLOW			^d 1880 Jun 14
INSTANTANEOUS PEAK STAGE			^e 4.30 Jun 14
ANNUAL RUNOFF (AC-FT)	24960	43080	32540
10 PERCENT EXCEEDS	115	175	128
50 PERCENT EXCEEDS	12	19	13
90 PERCENT EXCEEDS	6.0	6.5	5.2

a-Also occurred May 31.

b-Also occurred Feb 1-2, and Dec 10-11, 16-17.

c-Also occurred Dec 11, 16-17.

d-Present datum, from rating curve extended above 620 ft³/s, on basis of slope-area measurement of peak flow.

e-Maximum gage height, 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 NW¹/4SE¹/4 sec.10, T.32 N., R.13 W., La Plata County, CO, Hydrologic Unit 14080105, on right bank at Colorado-New Mexico State line, 0.5 mi downstream from Johnny Pond Arroyo, and 4.9 mi north of La Plata, NM.

DRAINAGE AREA.--331 mi².

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 5,975.15 ft above sea level. See WSP 1713 or 1733 for history of changes prior to Mar. 17, 1934.

REMARKS.--Estimated daily discharges: Nov. 27 to Dec. 3, 9-12, 15-22, 28, Jan. 1-3, 7-8, and Jan. 18-22. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	9.9	12	12	17	31	84	54	37	133	13	11
2	6.4	9.6	14	14	18	41	77	51	66	129	15	7.7
3	6.9	14	14	14	19	44	70	56	90	107	18	5.0
4	6.4	14	15	15	19	70	71	49	98	85	15	5.1
5	7.0	13	16	18	19	87	79	49	96	57	15	5.9
6	7.7	13	31	19	19	220	87	54	139	65	16	5.7
7	7.0	11	27	12	20	165	73	50	170	76	16	5.4
8	6.6	11	20	16	22	102	67	57	118	63	15	21
9	6.5	11	14	17	22	77	80	57	69	65	14	12
10	7.0	11	12	17	20	69	70	45	68	81	11	9.9
11	7.8	12	12	18	20	77	52	47	79	66	10	9.3
12	7.4	29	14	19	20	120	48	48	107	63	10	8.4
13	6.5	28	15	18	18	96	47	46	199	68	11	6.3
14	15	17	15	18	21	91	49	41	243	94	11	5.1
15	17	14	14	18	24	110	50	41	257	70	10	4.6
16	13	12	12	18	23	107	46	49	343	62	8.5	3.8
17	12	18	14	17	23	119	42	70	221	74	8.1	5.4
18	11	19	14	10	21	132	41	68	289	70	7.3	5.3
19	10	20	14	12	22	142	44	50	194	48	6.5	5.0
20	8.9	22	14	14	25	153	41	48	183	40	8.2	3.6
21	8.6	16	14	16	31	151	44	62	204	36	6.6	4.1
22	8.6	13	14	16	39	164	52	88	191	34	8.3	4.4
23	8.6	13	16	16	35	148	47	92	172	30	7.1	4.1
24	8.8	13	15	16	35	142	42	66	165	30	6.2	3.5
25	9.5	12	16	17	33	128	43	57	151	28	77	3.2
26	9.6	13	15	20	30	113	47	46	145	22	19	3.6
27	9.2	12	15	19	29	102	48	44	167	18	27	3.8
28	9.9	12	14	18	27	99	43	44	126	15	26	6.3
29	10	12	15	18	---	98	42	51	132	13	26	7.5
30	10	12	15	17	---	88	48	49	133	13	23	7.6
31	11	---	14	18	---	84	---	39	---	13	16	---
TOTAL	281.0	436.5	476	507	671	3370	1674	1668	4652	1768	480.8	193.6
MEAN	9.06	14.5	15.4	16.4	24.0	109	55.8	53.8	155	57.0	15.5	6.45
MAX	17	29	31	20	39	220	87	92	343	133	77	21
MIN	6.4	9.6	12	10	17	31	41	39	37	13	6.2	3.2
AC-FT	557	866	944	1010	1330	6680	3320	3310	9230	3510	954	384

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1995, BY WATER YEAR (WY)

	MEAN	13.9	11.9	12.1	11.6	17.0	36.6	108	111	68.0	20.6	11.9	11.3
MAX	260	99.2	53.9	38.3	53.9	130	363	506	306	99.4	65.1	126	
(WY)	1942	1942	1987	1942	1924	1993	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1921 - 1995

ANNUAL TOTAL	7999.3	16177.9	
ANNUAL MEAN	21.9	44.3	36.2
HIGHEST ANNUAL MEAN			109
LOWEST ANNUAL MEAN			4.44
HIGHEST DAILY MEAN	85	May 17	1120
LOWEST DAILY MEAN	a 2.2	Aug 5	b .00
ANNUAL SEVEN-DAY MINIMUM	2.9	Jul 30	c .00
INSTANTANEOUS PEAK FLOW			4750
INSTANTANEOUS PEAK STAGE			11.36
ANNUAL RUNOFF (AC-FT)	15870	32090	26230
10 PERCENT EXCEEDS	56	111	87
50 PERCENT EXCEEDS	14	20	12
90 PERCENT EXCEEDS	4.0	7.4	1.6

a-Also occurred Aug 13.

b-No flow at times in many years.

c-Present datum, from rating curve extended above 750 ft³/s, on basis of slope-area measurement of peak flow.

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 mi².

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. 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.--Estimated daily discharges: Oct. 1-19, Nov. 14-27, 22, 23, 25-27, Nov. 30 to Dec. 5, Dec. 11 to Jan. 1, Jan. 3-11, 19, 21-30, July 6 to Aug. 25 and Sept. 9-25. Records 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 elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	14	12	10	22	41	42	148	75	229	26	18
2	20	14	13	8.3	24	86	40	122	107	226	23	18
3	18	14	14	11	36	100	40	143	161	186	21	15
4	16	16	15	12	43	80	39	118	182	174	19	12
5	28	20	18	13	42	146	44	122	232	135	17	11
6	32	18	22	13	42	495	72	135	271	110	16	9.7
7	30	17	57	12	46	265	89	110	277	110	15	8.2
8	27	17	34	13	39	112	100	111	233	115	13	9.2
9	25	20	21	14	33	83	113	103	190	120	12	13
10	24	19	15	15	27	74	106	95	157	120	11	15
11	23	18	13	17	26	87	68	94	162	110	11	16
12	21	46	15	20	24	157	50	93	209	100	11	15
13	20	63	16	19	23	137	51	94	268	94	13	13
14	21	29	14	18	24	95	82	87	316	86	14	11
15	25	20	13	18	49	103	100	84	376	76	13	11
16	26	18	12	21	50	112	85	167	441	72	12	10
17	26	17	12	19	35	125	66	230	403	70	11	9.0
18	25	17	13	12	28	133	70	220	679	67	11	8.8
19	24	17	13	11	25	133	67	144	409	64	11	8.8
20	23	16	12	13	25	130	64	126	338	58	12	8.2
21	21	14	13	12	27	117	75	170	313	52	14	7.9
22	20	14	13	11	33	137	94	236	279	47	18	7.4
23	18	14	14	10	41	116	120	264	259	42	25	7.2
24	17	14	14	10	41	94	94	227	248	38	24	7.0
25	17	14	14	11	42	82	91	179	230	35	30	6.8
26	17	13	13	11	45	69	95	134	217	32	32	7.3
27	17	12	12	11	44	59	100	100	210	30	42	7.3
28	17	11	11	11	41	51	108	83	193	30	44	8.6
29	14	8.8	12	12	---	48	114	87	202	29	35	26
30	14	11	11	12	---	47	128	84	222	28	28	46
31	14	---	11	12	---	45	---	83	---	27	27	---
TOTAL	660	555.8	492	412.3	977	3559	2407	4193	7859	2712	611	371.4
MEAN	21.3	18.5	15.9	13.3	34.9	115	80.2	135	262	87.5	19.7	12.4
MAX	32	63	57	21	50	495	128	264	679	229	44	46
MIN	14	8.8	11	8.3	22	41	39	83	75	27	11	6.8
AC-FT	1310	1100	976	818	1940	7060	4770	8320	15590	5380	1210	737

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1995, BY WATER YEAR (WY)

	MEAN	26.5	19.5	14.5	13.5	26.0	59.5	128	180	87.0	29.8	28.9	26.3
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1921 - 1995

ANNUAL TOTAL	14788.28	24809.5	
ANNUAL MEAN	40.5	68.0	52.5
HIGHEST ANNUAL MEAN			138
LOWEST ANNUAL MEAN			4.28
HIGHEST DAILY MEAN	280	679	3050
LOWEST DAILY MEAN	a.00	6.8	a.00
ANNUAL SEVEN-DAY MINIMUM	.00	7.3	.00
INSTANTANEOUS PEAK FLOW		848	b5300
INSTANTANEOUS PEAK STAGE		4.66	c7.30
ANNUAL RUNOFF (AC-FT)	29330	49210	38010
10 PERCENT EXCEEDS	131	176	147
50 PERCENT EXCEEDS	16	28	16
90 PERCENT EXCEEDS	.00	11	.10

a-No flow at times in most years.

b-Present site and datum, from rating curve extended above 200 ft³/s, on basis of slope-area measurement of peak flow.

c-Maximum gage height, 8.50 ft, Sep 6, 1970.

SAN JUAN RIVER BASIN

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 mi², approximately.

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,900 ft above sea level, from topographic map.

REMARKS.--Water-discharge records good. Flow partly regulated by Navajo Reservoir (09355100).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1450	1070	863	1000	895	1180	2460	4540	6550	8540	1890	1600
2	1180	1020	831	975	901	1490	2410	4730	6680	9070	1750	1390
3	1110	991	842	940	947	1890	2370	4690	7200	8940	1670	1250
4	930	1070	846	867	937	1940	2670	4870	7470	8440	1570	1160
5	864	1160	846	919	969	2420	2910	4970	7650	7530	1460	1050
6	871	1080	967	1010	1010	4240	2940	5220	7830	6540	1480	948
7	899	1030	1550	953	1040	5950	3080	5410	8940	6600	1390	951
8	896	975	1270	915	1070	2390	3200	5570	8950	7020	1340	901
9	840	974	1150	945	1060	1440	3340	5590	8450	6820	1240	2320
10	872	975	983	937	988	2290	3650	5710	8130	7060	1210	2490
11	890	952	905	906	992	2480	3510	5900	7980	7210	1220	2080
12	828	1040	891	911	949	2530	3270	6030	8210	6690	1290	1440
13	761	2820	931	949	889	2750	3090	6020	8870	6280	1340	1300
14	760	1810	942	941	924	2770	3000	5920	9650	5880	1450	1220
15	1240	1250	917	866	1020	2790	3200	5750	10300	5270	1370	1100
16	1870	1170	942	872	2020	2890	3360	5870	11100	4420	1220	1140
17	1470	1110	877	866	1500	3050	3330	6490	11500	4370	1140	1140
18	1800	986	876	843	1190	3190	3330	6660	11900	4420	1130	1040
19	1540	982	882	897	1070	3180	3340	6530	12100	4000	1080	947
20	1250	933	909	857	1060	3240	3460	6580	11400	4120	1190	884
21	1100	932	898	839	1060	3200	3870	6720	10700	4200	1410	902
22	1230	963	887	872	1070	3160	4370	6970	10800	3790	1600	879
23	1230	882	916	877	1060	3290	4340	7270	10700	3440	1700	880
24	1130	896	976	854	1090	3140	4050	7510	10400	3180	1780	890
25	1050	977	932	816	1120	3070	4100	7240	10100	2780	1970	923
26	1110	878	977	905	1150	2930	4270	7040	10000	2580	1820	912
27	1060	853	975	1010	1190	2820	4260	6790	9870	2430	1830	897
28	1040	846	963	1020	1170	2690	4320	6640	9690	2370	2100	939
29	1020	808	953	973	---	2650	4300	6670	8770	2260	2480	1050
30	991	835	992	939	---	2550	4370	6740	8640	2140	2470	1160
31	1030	---	1010	927	---	2500	---	6720	---	2120	1810	---
TOTAL	34312	32268	29699	28401	30341	86100	104170	189360	280530	160510	48400	35783
MEAN	1107	1076	958	916	1084	2777	3472	6108	9351	5178	1561	1193
MAX	1870	2820	1550	1020	2020	5950	4370	7510	12100	9070	2480	2490
MIN	760	808	831	816	889	1180	2370	4540	6550	2120	1080	879
AC-FT	68060	64000	58910	56330	60180	170800	206600	375600	556400	318400	96000	70980

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1995, BY WATER YEAR (WY)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	1284	1434	1482	1589	1711	2266	3287	4874	5447	2621	1409	1352						
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	799	760	739	707	613	1030	1236	743	259	467						
(WY)	1978	1980	1990	1990	1990	1990	1990	1981	1989	1989	1978	1989						

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1978 - 1995
ANNUAL TOTAL	707951	1059874	
ANNUAL MEAN	1940	2904	2396
HIGHEST ANNUAL MEAN			4180
LOWEST ANNUAL MEAN			991
HIGHEST DAILY MEAN	9090	Jun 5	12100
LOWEST DAILY MEAN	289	Aug 3	760
ANNUAL SEVEN-DAY MINIMUM	334	Jul 31	835
INSTANTANEOUS PEAK FLOW			12900
INSTANTANEOUS PEAK STAGE			5.70
INSTANTANEOUS LOW FLOW			700
ANNUAL RUNOFF (AC-FT)	1404000	2102000	1736000
10 PERCENT EXCEEDS	6370	7200	5740
50 PERCENT EXCEEDS	991	1440	1540
90 PERCENT EXCEEDS	657	888	736

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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1981 to September 1986, August 1993 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,765 ft above sea level, from topographic map. Prior to Aug. 25, 1993, gage at present site and datum.

REMARKS.--Estimated daily discharges: Nov. 27-30, Dec. 2, 3, 8-11, 15-21, 24, 25, 27-29, Jan. 1-3, 17-20, and Jan. 26, 27. Records good except those 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	5.5	1.5	1.5	2.3	5.5	2.5	8.2	15	13	10	11
2	11	5.6	1.5	1.5	2.2	8.1	2.4	7.9	14	13	11	9.9
3	10	6.2	1.6	1.5	2.0	3.5	2.3	11	13	13	12	9.1
4	11	8.7	1.8	1.4	1.9	5.4	2.2	6.9	15	16	11	9.2
5	10	6.9	1.8	1.7	1.8	6.8	2.2	7.4	17	13	11	8.3
6	9.2	5.4	6.7	1.7	2.0	75	2.2	3.4	15	13	11	9.1
7	7.5	4.9	3.1	2.9	1.9	7.7	2.1	6.0	13	14	11	11
8	6.7	5.3	2.0	1.6	2.0	4.3	1.8	8.1	13	14	11	16
9	6.3	5.6	1.7	2.1	2.1	3.5	2.7	5.6	14	13	12	15
10	7.4	4.8	1.5	2.2	2.0	3.1	3.3	4.5	14	14	10	12
11	9.8	4.3	1.5	2.4	2.0	3.1	2.5	4.5	13	13	11	12
12	10	6.6	1.6	5.8	2.0	3.8	2.1	5.2	12	11	13	11
13	9.8	8.2	1.7	4.4	2.0	2.8	2.0	5.4	12	12	14	11
14	8.4	5.4	1.7	3.1	2.4	2.6	1.9	5.0	13	23	12	10
15	11	4.4	1.5	3.0	2.7	2.4	1.9	4.3	13	14	11	11
16	11	4.3	1.3	3.0	2.0	2.4	2.0	4.6	13	12	12	9.6
17	8.2	4.5	1.4	3.0	1.8	2.3	2.2	6.2	14	12	13	5.6
18	6.2	4.6	1.4	2.3	1.7	2.2	2.5	7.2	13	14	12	2.2
19	2.8	4.6	1.4	1.6	1.7	2.3	2.5	6.2	13	14	11	2.6
20	2.2	4.5	1.4	1.6	1.7	2.2	3.1	5.8	12	14	14	2.7
21	2.3	4.9	1.5	2.0	1.8	2.2	3.8	5.6	12	13	11	2.7
22	5.3	5.0	1.7	3.5	1.9	2.2	3.1	8.0	12	12	16	3.5
23	5.9	4.3	1.4	9.6	1.8	2.0	2.8	13	12	12	12	4.0
24	4.5	3.6	1.4	1.9	1.7	1.9	2.5	13	13	11	11	7.4
25	3.7	1.9	1.4	3.1	1.7	2.1	2.2	15	11	12	12	12
26	4.5	1.9	1.4	3.0	2.1	2.1	2.2	14	11	11	13	12
27	5.1	1.9	1.5	5.0	2.5	1.9	2.1	14	11	12	13	11
28	5.2	1.5	1.5	3.2	2.1	2.1	2.0	14	9.8	12	12	13
29	4.6	1.5	1.6	4.6	---	2.3	2.8	20	12	12	12	16
30	5.0	1.5	1.6	4.2	---	2.5	5.6	21	14	10	11	16
31	5.2	---	1.6	3.3	---	2.4	---	14	---	11	11	---
TOTAL	226.8	138.3	54.7	91.7	55.8	172.7	75.5	275.0	388.8	403	367	285.9
MEAN	7.32	4.61	1.76	2.96	1.99	5.57	2.52	8.87	13.0	13.0	11.8	9.53
MAX	17	8.7	6.7	9.6	2.7	75	5.6	21	17	23	16	16
MIN	2.2	1.5	1.3	1.4	1.7	1.9	1.8	3.4	9.8	10	10	2.2
AC-FT	450	274	108	182	111	343	150	545	771	799	728	567

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1995, BY WATER YEAR (WY)

	MEAN	9.36	4.21	3.65	2.73	3.64	4.85	3.91	10.1	14.3	15.5	16.2	13.0
MAX	17.5	5.94	6.00	3.47	7.99	10.3	5.60	13.1	18.1	18.0	21.5	17.6	
(WY)	1994	1994	1985	1985	1983	1983	1994	1982	1985	1986	1983	1986	
MIN	6.17	2.72	1.76	1.61	1.99	2.85	2.52	7.48	10.5	12.3	11.8	9.53	
(WY)	1986	1982	1995	1982	1995	1994	1995	1986	1994	1994	1995	1995	

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1982 - 1995

ANNUAL TOTAL	2722.6	2535.2	
ANNUAL MEAN	7.46	6.95	8.56
HIGHEST ANNUAL MEAN			9.47
LOWEST ANNUAL MEAN			6.95
HIGHEST DAILY MEAN	27 May 25	75 Mar 6	75 Mar 6
LOWEST DAILY MEAN	1.3 Dec 16	1.3 Dec 16	1.2 Feb 13
ANNUAL SEVEN-DAY MINIMUM	1.4 Dec 15	1.4 Dec 15	1.4 Feb 8
INSTANTANEOUS PEAK FLOW		188 Mar 6	598 Aug 24
INSTANTANEOUS PEAK STAGE		4.74 Mar 6	8.53 Aug 24
ANNUAL RUNOFF (AC-FT)	5400	5030	6200
10 PERCENT EXCEEDS	15	13	17
50 PERCENT EXCEEDS	6.2	5.2	6.4
90 PERCENT EXCEEDS	1.7	1.7	2.3

a-Also occurred Feb 14, 1982.

b-From rating curve extended above 26 ft³/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 TEMPERATURES: September 1993 to current year.

INSTRUMENTATION.--Water-quality monitor since September 1993.

REMARKS.--Daily maximum and minimum specific conductance data available in district office. Daily water temperature data are good. Daily specific conductance data are fair.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 7,120 microsiemens, Jan. 16, 1995; minimum, 1,220 microsiemens, July 16, 1994.
WATER TEMPERATURE: Maximum, 24.9°C, June 25, 1994; minimum, -0.4°C many days during winter months.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 7,120 microsiemens, Jan. 16; minimum recorded, 1,380 microsiemens, Mar. 6.
WATER TEMPERATURE: Maximum, 24.3°C, Aug. 8, ; minimum, -0.4°C many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO
OCT										
27...	1500	5.2	3230	8.3	8.5	1600	340	190	210	2
DEC										
22...	0950	1.7	5170	8.2	0.0	2600	450	350	470	4
JAN										
27...	1405	4.8	4940	8.4	3.0	2200	320	330	460	4
FEB										
15...	1330	2.7	5660	8.3	5.0	2700	420	410	520	4
MAR										
09...	1100	3.5	5650	8.2	3.0	2700	410	400	540	5
MAY										
03...	1045	14	2250	8.2	11.5	1100	230	120	140	2
JUL										
07...	1305	13	1820	8.2	21.0	900	210	91	88	1
20...	1305	14	1720	8.2	21.0	820	190	84	85	1
28...	1240	12	1780	8.2	21.0	920	220	90	81	1
AUG										
04...	1315	11	1940	8.2	20.5	950	220	97	100	1
10...	1325	11	1960	8.2	23.0	960	220	99	100	1
25...	1205	13	1960	8.2	22.0	980	210	110	110	2

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT									
27...	4.4	233	1700	37	0.4	9.3	2630	3.58	36.9
DEC									
22...	6.0	330	2900	74	0.5	12	4460	6.07	20.5
JAN									
27...	10	343	2700	89	0.6	11	4130	5.61	53.5
FEB									
15...	9.5	360	3200	110	0.6	11	4900	6.66	36.0
MAR									
09...	8.6	321	3200	98	0.6	10	4860	6.61	46.2
MAY									
03...	4.2	201	1000	27	0.4	6.5	1650	2.24	60.5
JUL									
07...	4.0	222	790	18	0.3	9.1	1340	1.83	47.2
20...	4.3	231	740	19	0.3	12	1270	1.73	48.1
28...	3.5	222	780	17	0.3	9.2	1330	1.81	43.2
AUG									
04...	4.0	231	860	20	0.3	9.9	1450	1.97	43.1
10...	4.1	233	890	18	0.3	11	1480	2.02	44.0
25...	6.3	256	880	21	0.4	13	1500	2.05	51.2

09371492 MUD CREEK AT HIGHWAY 32, NEAR CORTEZ, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2040	3100	5360	5240	4840	5970	5400	3020	2210	1840	1840	1850
2	2090	3110	5350	5150	4950	4990	5430	2790	1830	1820	1880	1850
3	2130	3070	5280	5110	4930	4820	5420	2460	1720	1820	1790	1950
4	2110	2920	5110	5070	4910	4940	5350	2870	1570	1800	1870	1890
5	2170	2950	5050	4930	4940	4450	5440	2790	1720	1760	1830	1870
6	2250	3130	4890	4830	4960	2100	5490	3260	1840	1770	1800	1820
7	2460	3290	4650	4950	4990	3990	5490	3760	1860	1740	1760	1660
8	2580	3360	5130	4920	5010	5250	5560	3690	1990	1730	1740	1530
9	2720	3250	5350	4870	5070	5490	5720	3410	2020	1650	1640	1900
10	2660	3340	5320	5530	5110	5570	5700	3700	2000	1580	1870	2060
11	2480	3380	5200	5400	5100	5600	5480	3660	2020	1480	1830	2060
12	2460	3340	5160	5190	5130	5690	5440	3440	2000	1480	1770	2040
13	2510	3100	5140	5190	5090	5560	5440	3350	1960	1520	1700	2070
14	2700	3380	5190	5160	5260	5500	5530	3680	1960	1830	1760	2020
15	2670	3370	5320	5220	5600	5420	5530	3870	1940	1700	1860	2140
16	2600	3470	5360	5270	5270	5510	5460	3550	1840	1720	1920	2090
17	2690	3510	5350	5360	5200	5540	5460	3370	1870	1780	1830	2450
18	2840	3470	5330	5290	5180	5500	5300	2910	1940	1790	1850	3340
19	3260	3410	5220	5220	5140	5480	5330	2940	1850	1830	1840	3070
20	3430	3460	5210	5110	5130	5470	5480	2970	1780	1680	2050	3110
21	3470	3510	5200	5060	5150	5450	5630	2910	1770	1730	1890	2930
22	3020	3610	5170	5050	5160	5530	5530	2520	1760	1800	1960	2820
23	2930	3810	5000	5160	5130	5450	5420	2290	1770	1790	1860	2520
24	3210	3980	5010	5090	5120	5400	5340	2270	1740	1830	1910	2110
25	3350	4820	5130	5200	5160	5390	5370	2110	1810	1810	1970	1870
26	3180	4960	5110	4630	5190	5370	5390	2170	1810	1810	1880	1920
27	3090	5060	5150	4620	5630	5290	5340	2060	1780	1800	1790	1980
28	3150	5120	5170	4910	5360	5380	5330	2120	1820	1760	1800	1970
29	3310	5230	5110	4930	---	5490	5310	2130	1800	1800	1740	2020
30	3250	5320	5060	4970	---	5460	3720	2010	1790	1860	1820	1840
31	3140	---	5190	4900	---	5470	---	2020	---	1820	1850	---
MEAN	2770	3690	5170	5080	5130	5240	5390	2910	1860	1750	1840	2160
MAX	3470	5320	5360	5530	5630	5970	5720	3870	2210	1860	2050	3340
MIN	2040	2920	4650	4620	4840	2100	3720	2010	1570	1480	1640	1530

09371492 MUD CREEK AT HIGHWAY 32, NEAR CORTEZ, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	15.9	11.1	7.8	2.7	.0	-.4	.1	-.4	3.9	.5	6.9	4.7
2	15.6	11.3	8.5	4.7	-.3	-.4	.3	-.4	4.6	.6	7.3	4.1
3	14.8	10.8	7.2	6.1	-.1	-.4	.2	-.4	4.4	.7	6.6	4.1
4	15.6	12.5	7.3	5.0	1.4	-.1	.8	-.4	4.1	.2	7.3	4.9
5	14.0	11.4	7.1	3.7	1.4	.0	.7	-.3	4.2	.1	6.7	3.9
6	12.9	10.0	7.8	3.4	2.0	.7	1.1	-.2	4.5	.2	7.8	3.8
7	12.7	8.0	8.4	4.1	2.9	1.2	.4	-.4	4.5	.3	7.1	1.3
8	13.0	7.6	8.4	6.1	2.2	-.2	2.1	.4	3.7	1.8	6.5	1.4
9	13.0	7.1	7.5	4.0	-.2	-.4	2.7	.8	3.5	.2	7.8	1.8
10	13.3	7.1	7.5	3.8	-.2	-.4	1.9	-.2	3.7	-.2	8.8	2.8
11	12.8	8.0	7.3	5.0	-.1	-.4	2.7	.5	2.5	.9	7.6	5.5
12	12.5	7.8	8.0	5.9	.5	-.4	2.1	.1	4.7	1.7	7.9	4.7
13	12.6	8.5	6.2	4.1	1.5	.3	2.4	.0	4.8	1.8	8.4	3.2
14	10.6	9.0	4.1	1.5	1.8	-.1	2.1	-.4	5.8	4.1	9.9	4.1
15	9.0	7.2	3.2	.1	.7	-.4	2.5	.7	5.7	2.4	9.6	5.0
16	8.6	6.2	5.0	2.0	-.3	-.4	2.0	.3	5.0	.6	10.7	5.7
17	8.1	6.9	4.1	2.4	-.3	-.4	1.2	-.4	5.2	.3	11.7	7.1
18	9.9	5.9	4.1	1.7	.0	-.4	-.3	-.4	5.3	.2	11.8	6.5
19	9.6	5.5	3.5	1.0	.0	-.4	-.3	-.4	5.3	.6	11.4	7.2
20	8.5	4.2	2.3	.3	.1	-.4	-.3	-.4	6.4	.9	10.3	5.2
21	8.9	3.8	4.5	1.2	.0	-.4	.2	-.4	7.5	2.1	11.5	7.2
22	10.8	5.4	3.6	1.3	.0	-.4	.5	-.4	8.2	3.2	11.3	6.6
23	10.5	5.4	2.1	-.4	1.1	.0	.4	-.4	8.2	2.8	10.3	4.5
24	9.2	6.0	1.7	-.4	1.8	.8	1.7	.1	9.0	3.8	10.3	5.6
25	9.4	4.3	2.6	-.3	2.2	.9	1.7	.0	8.8	4.6	7.0	4.1
26	10.4	5.4	1.7	.2	1.6	-.4	1.7	.2	8.6	4.9	7.0	2.8
27	10.3	5.6	.6	-.4	.9	-.4	3.1	.7	7.4	2.3	8.4	1.5
28	10.4	5.5	.0	-.4	.3	-.4	2.1	-.4	6.5	4.4	10.0	3.7
29	9.4	5.1	-.2	-.4	.8	-.4	1.8	-.4	---	---	8.9	5.0
30	9.2	5.4	-.2	-.4	1.1	.2	1.2	-.4	---	---	8.0	2.4
31	7.2	2.8	---	---	1.5	.1	2.8	-.4	---	---	8.8	1.7
MONTH	15.9	2.8	8.5	-.4	2.9	-.4	3.1	-.4	9.0	-.2	11.8	1.3
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10.1	2.8	14.3	7.8	20.1	12.1	21.0	16.1	23.3	16.5	22.7	16.5
2	8.8	4.3	14.2	10.6	17.5	14.8	20.6	15.3	22.3	16.0	23.6	17.9
3	10.8	3.1	15.5	8.8	16.6	11.3	18.3	15.2	21.7	16.2	23.2	16.9
4	12.2	4.5	17.1	8.5	16.6	13.4	18.7	12.9	21.8	16.6	22.5	16.4
5	12.4	5.3	14.9	10.8	19.2	12.0	20.6	13.4	22.7	16.4	22.3	16.0
6	11.7	5.8	13.0	7.5	19.8	14.4	22.3	14.8	23.3	16.7	21.8	17.3
7	13.0	5.5	11.5	5.9	16.7	12.4	22.9	16.1	23.3	17.4	21.0	17.6
8	13.8	7.3	14.1	7.1	15.3	11.8	23.3	16.6	24.3	19.1	18.7	16.3
9	11.0	5.8	15.4	7.5	17.3	10.1	23.9	17.9	23.5	19.1	19.6	14.6
10	9.3	4.3	14.4	8.2	18.7	11.9	23.4	17.6	23.6	19.6	20.0	15.7
11	10.5	3.6	16.1	7.9	19.9	12.2	23.8	17.9	23.7	19.4	19.7	14.8
12	12.7	4.2	13.1	9.9	21.3	13.5	23.4	17.4	24.1	19.8	19.1	14.0
13	13.3	6.3	15.0	8.0	21.6	14.6	22.8	17.4	23.7	18.7	18.7	13.2
14	12.8	7.4	17.0	8.3	21.4	15.9	22.2	16.3	22.8	18.6	17.7	12.9
15	10.0	6.6	20.0	10.1	21.1	16.1	22.9	16.9	22.7	16.7	17.8	12.7
16	11.7	3.2	16.4	10.8	17.7	13.9	22.7	17.5	20.2	17.5	18.5	12.9
17	8.9	5.5	13.3	9.8	15.6	12.7	20.0	18.1	22.1	17.2	19.0	14.2
18	8.4	4.8	18.7	8.4	18.1	10.5	20.6	17.3	22.2	16.4	17.5	14.5
19	8.8	5.2	18.1	9.9	19.8	12.7	22.7	17.3	20.3	17.8	16.9	11.1
20	7.2	4.7	20.5	11.2	20.4	13.4	22.8	17.0	22.2	17.2	15.7	10.5
21	8.7	4.7	19.4	11.0	20.7	14.4	21.5	17.1	23.0	18.8	16.0	12.7
22	8.4	5.5	18.8	12.9	20.4	13.8	22.2	16.2	23.6	18.1	14.7	7.6
23	11.6	5.6	16.5	11.3	20.7	13.9	21.1	15.1	23.0	18.6	14.4	7.5
24	13.0	5.1	13.9	11.0	20.8	14.4	22.1	15.3	23.0	18.9	15.0	10.0
25	13.5	5.6	13.9	9.6	21.4	14.4	22.3	15.6	23.8	18.7	13.1	8.1
26	15.2	7.7	14.9	9.4	21.2	14.9	22.0	15.6	23.4	17.3	14.4	10.6
27	13.2	7.5	16.5	10.9	21.0	16.0	22.3	15.7	23.7	18.3	15.3	11.0
28	15.2	8.8	13.5	11.4	22.3	16.1	23.0	16.4	23.3	18.6	14.8	12.7
29	16.2	8.0	14.0	11.0	20.8	16.9	23.6	17.3	22.6	17.8	15.2	12.4
30	13.8	10.1	16.2	10.3	21.7	17.1	22.7	18.3	22.3	17.0	14.4	9.9
31	---	---	18.4	11.3	---	---	22.6	17.3	22.6	16.4	---	---
MONTH	16.2	2.8	20.5	5.9	22.3	10.1	23.9	12.9	24.3	16.0	23.6	7.5

09371520 McELMO CREEK ABOVE TRAIL CANYON, NEAR CORTEZ, CO

LOCATION.--Lat 37°19'36", long 108°42'00", in NE¹/4NE¹/4 sec.3, T.35 N., R.17 W., Montezuma County, Hydrologic Unit 14080202, on left bank adjacent to abandoned gravel pit 1.5 mi downstream from Mud Creek, 1.9 mi upstream from Trail Canyon and 5.5 mi south of Cortez.

DRAINAGE AREA.--234 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1993 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,690 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 1-3, 9-12, 15-21, Jan. 13-15 and Jan. 23. Records fair except those 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 ft³/s, gage height, 5.72 ft, site and datum then in use. February 20, 1993, 890 ft³/s, gage height, 7.57 ft, present datum, on basis of slope-area measurement at site 1 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142	41	45	32	37	51	33	39	93	86	84	124
2	98	41	43	49	46	103	32	41	86	86	83	115
3	87	44	42	40	55	97	32	52	82	83	86	106
4	93	60	43	39	53	93	29	39	92	112	88	101
5	86	55	40	35	50	111	30	34	119	95	86	91
6	82	46	89	39	49	757	31	45	105	82	92	92
7	75	42	79	39	47	236	27	60	91	76	95	112
8	66	46	54	37	43	110	26	77	93	94	87	138
9	63	49	40	38	42	79	31	50	99	91	91	215
10	62	43	40	39	39	71	45	42	98	93	91	158
11	59	42	41	40	37	69	33	46	92	94	102	141
12	58	72	40	56	37	88	29	49	92	80	119	128
13	57	98	39	50	36	74	26	52	81	74	130	116
14	58	59	38	40	43	62	24	44	80	160	120	98
15	102	51	37	35	56	56	25	37	92	124	112	107
16	111	51	36	50	38	50	26	37	91	106	107	102
17	82	51	36	39	31	47	26	79	147	114	117	104
18	73	51	35	27	30	47	33	99	178	148	113	104
19	69	51	37	33	29	44	35	82	134	136	115	98
20	64	52	40	38	28	41	38	69	116	126	184	96
21	61	53	43	38	33	39	57	59	107	121	147	97
22	56	56	44	35	29	41	66	53	94	112	180	97
23	53	51	35	35	24	39	67	51	79	106	170	103
24	50	51	35	35	23	36	52	51	82	110	170	101
25	48	49	37	34	24	38	43	70	74	102	166	98
26	46	49	36	55	28	42	37	75	74	92	153	94
27	44	46	35	59	27	39	33	74	74	86	164	94
28	42	48	35	46	25	37	36	74	70	87	174	105
29	42	47	36	38	---	37	39	117	77	90	154	142
30	42	47	36	34	---	40	34	145	81	85	149	136
31	40	---	35	36	---	34	---	107	---	98	132	---
TOTAL	2111	1542	1301	1240	1039	2708	1075	1949	2873	3149	3861	3413
MEAN	68.1	51.4	42.0	40.0	37.1	87.4	35.8	62.9	95.8	102	125	114
MAX	142	98	89	59	56	757	67	145	178	160	184	215
MIN	40	41	35	27	23	34	24	34	70	74	83	91
MED	62	50	39	38	37	50	33	52	92	94	117	104
AC-FT	4190	3060	2580	2460	2060	5370	2130	3870	5700	6250	7660	6770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1995, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	96.6	56.1	39.3	35.9	49.8	69.6	35.6	61.0	77.4	92.0	110	109
MAX	125	60.9	42.0	40.0	62.5	87.4	35.8	62.9	95.8	102	125	114
(WY)	1994	1994	1995	1995	1994	1995	1995	1995	1995	1995	1995	1995
MIN	68.1	51.4	36.7	31.8	37.1	51.8	35.5	59.2	59.0	82.4	95.5	105
(WY)	1995	1995	1994	1994	1995	1994	1994	1994	1994	1994	1994	1993

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1993 - 1995

ANNUAL TOTAL	22723	26261		
ANNUAL MEAN	62.3	71.9		
HIGHEST ANNUAL MEAN			69.7	
LOWEST ANNUAL MEAN			71.9	1995
HIGHEST DAILY MEAN	251	Feb 18	757	Mar 6 1995
LOWEST DAILY MEAN	16	Apr 21	23	Feb 24 1994
ANNUAL SEVEN-DAY MINIMUM	19	Apr 17	26	Feb 22 1994
INSTANTANEOUS PEAK FLOW			1080	Mar 6 1995
INSTANTANEOUS PEAK STAGE			8.42	Mar 6 1995
ANNUAL RUNOFF (AC-FT)	45070	52090		
10 PERCENT EXCEEDS	110	119		
50 PERCENT EXCEEDS	53	56		
90 PERCENT EXCEEDS	31	34		

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 maximum and minimum specific conductance data available in district office. Daily water temperature data are good. Daily specific conductance data are fair.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 3,750 microsiemens, Feb. 13, 1994; minimum, 1,030 microsiemens, May 25, 1992.
WATER TEMPERATURE: Maximum, 26.0°C, July 1, 1994; minimum, -0.4°C during winter months each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 3,610 microsiemens, Jan. 27; minimum, 1,160 microsiemens, Aug. 15.
WATER TEMPERATURE: Maximum, 24.7°C, Aug. 8; minimum, -0.4°C on many days Dec. to Jan.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO
OCT										
27...	1320	42	2480	8.3	9.0	1300	300	140	130	2
DEC										
08...	1600	52	2620	8.2	2.5	1500	320	170	130	1
JAN										
27...	1330	54	3230	8.5	3.5	1700	340	210	210	2
FEB										
15...	1300	57	2940	8.3	5.5	1500	310	180	180	2
MAR										
09...	1300	76	3230	8.3	6.5	1600	320	190	220	2
MAY										
04...	1305	34	2680	8.5	14.5	1300	270	160	190	2
JUL										
06...	1345	89	1470	8.3	20.0	750	180	72	57	0.9
20...	1200	128	1360	8.3	20.0	660	160	64	51	0.9
28...	1120	86	1420	8.3	19.5	740	180	70	53	0.8
AUG										
04...	1140	90	1400	8.3	20.0	700	170	66	52	0.9
10...	1145	93	1340	8.3	22.0	650	160	62	50	0.9
23...	1435	162	1340	8.2	22.0	670	160	65	51	0.9

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINIT LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT									
27...	4.4	210	1200	26	0.4	9.1	1940	2.63	220
DEC									
08...	6.1	246	1300	30	0.4	11	2120	2.88	297
JAN									
27...	6.3	280	1800	44	0.4	10	2790	3.79	407
FEB									
15...	4.7	211	1500	37	0.4	9.3	2350	3.19	359
MAR									
09...	6.2	268	1700	46	0.4	11	2650	3.61	548
MAY									
04...	4.7	203	1400	34	0.4	6.1	2190	2.97	200
JUL									
06...	3.8	220	590	13	0.3	10	1060	1.44	254
20...	3.7	220	540	12	0.3	11	974	1.32	337
28...	3.3	215	570	12	0.3	10	1030	1.40	239
AUG									
04...	3.5	217	560	12	0.4	11	1010	1.37	244
10...	3.6	219	510	12	0.3	11	940	1.28	236
23...	5.0	210	530	13	0.3	12	962	1.31	421

09371520 MCELMO CREEK ABOVE TRAIL CANYON NEAR CORTEZ, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1780	2520	2250	2530	3140	---	2970	2540	1910	1390	1270	1480
2	1820	2530	2100	2470	2980	---	2910	2530	1800	1380	1280	1520
3	1860	2520	1940	2490	2940	---	2910	2500	1750	1370	1340	1540
4	1850	2560	2140	2440	2810	---	2950	2540	1680	1340	1400	1520
5	1910	2540	2390	2370	2860	---	2960	2630	1570	1390	1360	1510
6	1970	2570	2540	2380	2830	---	2980	2260	1540	1430	1340	1580
7	1990	2600	2890	2430	2810	---	2910	2080	1470	1420	1320	1430
8	2080	2610	2710	2460	2920	---	2970	2150	1440	1400	1320	1420
9	2180	2650	2560	2470	2980	3090	2950	2220	1410	1400	1330	1480
10	2190	2690	2530	2570	3010	3100	3010	2200	1410	1400	1350	1420
11	2220	2690	2380	2580	3020	3090	3020	2080	1410	1360	1310	1390
12	2240	2490	2350	2630	3060	3000	2940	2090	1430	1390	1260	1380
13	2260	2470	2410	2800	3060	3010	2950	1940	1450	1330	1310	1380
14	2300	2530	2540	2760	3010	2970	2910	1910	1450	1670	1220	1400
15	2330	2450	2480	2690	3040	3030	2920	1990	1410	1480	1200	1390
16	2270	2490	2440	2680	2940	3100	2880	1890	1370	1420	1220	1390
17	2330	2480	2100	2710	2910	3070	2820	1780	1340	1370	1290	1410
18	2360	2470	2400	2900	2840	2990	2730	1700	1400	1350	1300	1410
19	2370	2480	2490	3040	2790	3000	2700	1620	1330	1350	1290	1440
20	2380	2440	2520	3090	2770	3000	2730	1650	1310	1320	1320	1460
21	2390	2490	2500	3050	2710	3020	2720	1710	1310	1280	1300	1440
22	2420	2490	2510	3100	2330	3080	2690	1760	1350	1300	1340	1440
23	2410	2430	2450	3160	2620	3110	2720	1800	1420	1500	1340	1430
24	2410	2420	2500	3230	2420	3100	2720	1840	1480	1480	1310	1440
25	2420	2420	2530	3280	---	3050	2750	1940	1500	1430	1350	1450
26	2410	2440	2540	3430	---	2910	2830	2130	1460	1500	1430	1500
27	2400	2420	2490	3340	---	2830	2800	2040	1430	1540	1370	1500
28	2460	2440	2510	3120	---	2920	2770	1990	1440	1450	1360	1480
29	2480	2540	2510	2980	---	2930	2360	2030	1420	1460	1350	1560
30	2520	2500	2520	2900	---	2890	2580	2070	1360	1470	1270	1630
31	2520	---	2530	3060	---	2970	---	2100	---	1340	1420	---
MEAN	2240	2510	2440	2810	---	---	2840	2060	1470	1410	1320	1460

09371520 MCELMO CREEK ABOVE TRAIL CANYON NEAR CORTEZ, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	14.6	11.5	7.6	2.8	.3	-.4	.0	-.4	6.2	1.2	---	---
2	15.5	11.7	8.5	4.7	-.3	-.4	-.3	-.4	6.5	2.0	---	---
3	14.8	11.1	7.3	6.0	-.3	-.4	-.3	-.4	5.8	2.0	---	---
4	15.8	12.7	7.4	4.9	1.8	-.3	.1	-.4	5.5	1.4	---	---
5	14.3	11.6	7.0	3.6	3.1	1.8	.1	-.4	5.9	1.3	---	---
6	13.2	10.2	7.6	3.4	3.8	2.9	2.0	-.4	6.2	1.5	---	---
7	12.3	8.3	8.3	4.2	3.6	2.5	1.3	-.4	6.4	1.7	---	---
8	13.2	8.0	8.8	6.5	2.8	-.1	3.7	.4	5.1	2.9	---	---
9	13.0	7.7	7.6	4.2	-.1	-.4	4.7	1.9	5.6	1.4	8.2	3.9
10	13.4	7.9	7.2	3.6	-3	-.4	3.4	.8	5.7	1.1	9.7	4.0
11	13.4	8.0	6.9	4.3	-.3	-.4	4.0	2.0	4.2	2.2	7.7	6.5
12	13.0	7.5	8.1	6.1	-.3	-.4	4.5	2.1	7.5	3.0	9.6	5.6
13	13.0	7.9	6.1	3.9	.3	-.3	3.7	1.3	6.7	3.1	9.2	4.3
14	10.8	9.1	3.9	1.6	2.1	-.3	3.5	.7	7.4	5.2	11.1	4.8
15	9.1	7.3	3.2	.3	.2	-.4	3.5	1.6	6.3	3.6	10.8	6.0
16	8.3	6.2	4.8	1.7	-.3	-.4	2.7	.9	6.5	1.6	12.6	6.4
17	8.0	6.8	4.3	2.6	-.3	-.4	2.4	-.4	7.3	1.5	13.1	8.1
18	9.1	6.2	4.4	1.7	-.3	-.4	-.1	-.4	7.6	1.5	12.9	7.7
19	10.3	6.4	3.5	1.0	-.3	-.4	-.2	-.4	7.6	2.0	13.3	8.2
20	10.2	6.2	2.4	.2	-.3	-.4	-.3	-.4	9.1	2.5	11.8	6.2
21	10.5	6.1	4.3	1.3	-.3	-.4	-.3	-.4	9.9	3.8	12.9	8.1
22	10.6	6.1	4.1	1.8	-.3	-.4	.1	-.4	10.8	5.0	12.9	7.2
23	10.4	5.9	2.5	.2	1.3	-.3	-.3	-.4	10.9	4.5	12.2	5.5
24	9.6	6.4	3.0	.2	3.8	1.3	.8	-.4	11.5	5.2	12.4	6.3
25	9.8	5.4	4.1	.6	3.5	2.0	2.2	-.4	---	---	7.8	4.9
26	10.5	6.1	2.7	1.0	3.1	.4	3.1	1.2	---	---	8.4	3.1
27	10.4	6.2	1.0	.2	1.9	-.4	4.8	1.5	---	---	9.7	2.2
28	10.5	6.2	.3	.1	.9	-.4	3.9	.7	---	---	11.9	4.7
29	10.0	5.6	.3	.2	.7	-.4	3.2	.7	---	---	9.7	5.1
30	10.3	6.1	.3	.1	1.7	.3	2.6	.6	---	---	9.7	3.3
31	7.1	3.2	---	---	2.3	.0	3.9	.7	---	---	10.9	2.7
MONTH	15.8	3.2	8.8	.1	3.8	-.4	4.8	-.4	---	---	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	12.5	3.9	16.0	8.1	20.0	12.8	21.6	16.9	23.4	16.9	22.6	17.6
2	10.6	5.5	15.4	10.7	18.3	15.2	21.2	15.9	22.6	16.4	23.4	18.5
3	13.2	4.2	16.8	8.7	16.4	11.9	18.6	15.5	21.9	16.6	23.0	17.8
4	14.6	5.7	18.1	9.0	17.2	13.8	18.6	13.1	23.3	17.1	22.3	17.4
5	14.9	6.8	16.5	11.5	19.7	12.2	20.9	13.7	23.3	17.1	22.3	17.0
6	14.2	7.5	14.3	8.8	20.1	14.7	22.9	15.3	22.6	17.4	21.9	17.8
7	15.5	7.0	12.3	6.6	16.7	13.0	23.9	16.3	22.8	17.9	20.8	18.0
8	15.9	8.5	14.5	8.2	15.5	11.9	23.4	17.4	24.7	19.6	19.1	16.5
9	12.2	6.5	15.9	8.3	17.9	10.2	24.1	18.3	24.2	19.2	18.6	15.0
10	11.0	5.2	14.7	9.8	19.1	12.1	24.5	18.1	23.6	19.8	19.6	16.3
11	12.8	4.6	16.5	9.5	20.4	12.7	24.3	18.1	24.0	19.6	19.4	15.4
12	15.2	5.4	13.5	10.2	21.8	14.1	23.7	18.0	24.1	20.1	18.7	14.7
13	15.9	7.7	14.9	8.8	22.6	15.3	22.9	18.0	23.8	19.0	18.7	13.9
14	14.8	8.3	17.9	9.3	21.7	16.1	21.7	17.1	22.6	19.1	17.4	13.8
15	11.3	7.3	20.9	11.9	21.6	16.6	23.1	17.3	22.6	17.1	17.9	13.4
16	13.7	4.2	17.4	12.7	18.2	13.8	22.4	17.8	20.5	17.7	18.5	13.7
17	10.0	6.2	13.7	11.1	15.3	12.7	20.2	18.2	22.6	17.5	19.5	14.9
18	9.5	5.2	17.2	9.2	17.3	11.3	20.6	17.5	22.7	17.2	19.5	15.8
19	10.5	5.6	17.6	11.5	19.5	13.4	22.5	17.8	20.9	18.1	18.0	13.6
20	8.4	5.5	20.5	12.8	20.5	14.0	22.1	17.3	21.6	18.1	17.2	12.9
21	10.4	5.0	19.6	13.1	20.4	14.7	21.5	17.3	23.0	19.1	17.3	14.1
22	10.0	6.2	19.2	13.6	20.7	14.2	22.2	16.5	22.7	19.0	14.5	10.3
23	11.3	6.4	16.9	11.3	21.6	14.3	21.6	15.6	22.5	19.3	13.9	9.9
24	14.4	6.0	14.8	11.3	21.6	14.5	21.9	15.8	22.6	19.3	14.8	11.5
25	15.4	6.9	14.6	9.6	22.3	14.9	22.7	16.1	23.1	19.0	13.0	9.4
26	17.2	8.6	15.1	9.6	21.7	15.5	22.3	16.2	22.7	18.1	14.7	11.1
27	15.4	9.0	16.0	11.1	22.3	16.3	23.0	16.0	22.6	18.7	15.2	11.6
28	17.7	9.8	13.7	11.7	22.8	16.4	23.7	16.8	21.8	18.6	15.1	13.4
29	18.0	9.6	13.3	11.4	22.1	17.2	23.4	17.6	22.4	18.5	15.2	13.0
30	15.0	11.3	16.3	10.3	22.7	17.5	23.7	18.7	22.2	17.8	14.2	10.3
31	---	---	18.1	11.9	---	---	22.9	17.5	22.6	17.5	---	---
MONTH	18.0	3.9	20.9	6.6	22.8	10.2	24.5	13.1	24.7	16.4	23.4	9.4

09372000 McELMO CREEK NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 37°19'27", long 109°00'54", in NE¹/₄ sec.2, T.35 N., R.20 W., Montezuma County, Hydrologic Unit 14080202, on right bank 1.5 mi upstream from Colorado-Utah State line, 2.0 mi upstream from Yellowjacket Creek, and 2.0 mi west of former town of McElmo.

DRAINAGE AREA.--346 mi².

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.--Estimated daily discharges: Nov. 30 to Dec. 4, Dec. 10-12, 16-22, Dec. 28 to Jan. 4, Jan. 8, and Jan. 24 to Feb. 1. Records good except those for above 200 ft³/s, 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	34	43	36	37	53	41	16	101	70	73	107
2	136	35	44	35	46	117	41	15	86	76	69	97
3	86	33	44	35	58	124	39	17	78	75	70	88
4	77	54	48	40	64	95	36	17	80	86	66	78
5	83	63	49	48	57	239	34	16	95	91	68	72
6	69	53	74	50	55	1150	31	21	110	79	68	67
7	64	47	130	45	53	371	28	33	90	72	70	79
8	62	43	74	45	48	147	28	95	79	75	70	265
9	54	52	48	48	46	106	32	67	81	84	73	267
10	51	50	38	49	44	90	42	48	85	79	75	191
11	49	45	40	52	41	84	35	45	82	80	79	166
12	46	56	45	67	39	86	25	50	91	66	94	148
13	44	123	52	74	38	93	23	50	79	58	108	123
14	39	78	46	64	37	77	23	51	68	103	107	98
15	73	60	40	59	54	69	20	51	69	119	93	90
16	104	57	38	60	58	64	20	41	81	81	90	91
17	72	53	38	56	45	59	20	47	84	75	95	82
18	58	52	38	37	40	58	24	83	185	107	90	92
19	53	53	40	32	38	56	25	93	141	115	89	88
20	49	54	38	40	36	54	24	78	120	107	139	85
21	47	55	38	42	36	49	31	59	103	100	147	86
22	45	56	42	36	49	48	45	53	89	91	129	86
23	45	54	49	31	36	50	51	36	74	85	171	97
24	42	52	42	31	34	48	40	37	67	87	143	100
25	40	55	44	30	33	47	30	39	68	83	150	98
26	40	54	45	34	34	51	21	55	65	71	136	97
27	43	51	43	34	39	51	18	59	61	69	145	90
28	41	43	38	34	35	47	17	59	57	69	155	91
29	36	40	38	35	---	44	17	70	58	69	148	137
30	36	42	38	35	---	49	16	125	64	64	134	147
31	36	---	38	35	---	44	---	131	---	68	120	---
TOTAL	1877	1597	1462	1349	1230	3720	877	1657	2591	2554	3264	3403
MEAN	60.5	53.2	47.2	43.5	43.9	120	29.2	53.5	86.4	82.4	105	113
MAX	157	123	130	74	64	1150	51	131	185	119	171	267
MIN	36	33	38	30	33	44	16	15	57	58	66	67
AC-FT	3720	3170	2900	2680	2440	7380	1740	3290	5140	5070	6470	6750

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1995, BY WATER YEAR (WY)

	MEAN	56.1	49.6	39.4	33.4	49.8	60.9	42.0	48.0	54.9	51.5	62.5	57.2
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 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1951 - 1995

ANNUAL TOTAL	19137.0	25581	
ANNUAL MEAN	52.4	70.1	50.9
HIGHEST ANNUAL MEAN			94.6
LOWEST ANNUAL MEAN			16.2
HIGHEST DAILY MEAN	238	Feb 19	1200
LOWEST DAILY MEAN	8.0	Apr 22	a .08
ANNUAL SEVEN-DAY MINIMUM	11	Apr 18	.14
INSTANTANEOUS PEAK FLOW		1580	Mar 6
INSTANTANEOUS PEAK STAGE		6.89	Mar 6
ANNUAL RUNOFF (AC-FT)	37960	50740	36890
10 PERCENT EXCEEDS	90	116	95
50 PERCENT EXCEEDS	43	56	38
90 PERCENT EXCEEDS	26	34	12

a-Also occurred Sep 10, 1977.

b-From rating curve extended above 2100 ft³/s.

c-From floodmark in gage well.

d-Maximum gage height, 8.13 ft, Sep 6, 1970.

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 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO
OCT 27...	1200	45	2540	8.3	10.5	1400	290	160	150	2
DEC 08...	1150	72	2690	8.1	3.0	1400	300	170	150	2
JAN 23...	1045	28	3190	8.4	0.0	1600	330	190	190	2
FEB 16...	1150	58	3120	8.4	4.0	1600	330	190	210	2
MAR 10...	1500	91	3190	8.3	10.0	1600	330	190	220	2
MAY 04...	1110	20	2950	8.4	13.5	1400	300	170	190	2
JUL 06...	1000	80	1730	8.3	17.5	860	200	87	78	1
20...	1025	107	1630	8.2	19.5	830	200	80	72	1
28...	0920	73	1740	8.2	18.5	870	200	90	84	1
AUG 04...	0910	74	1730	8.2	18.5	870	200	89	83	1
10...	0955	79	1720	8.1	21.5	870	200	89	85	1
23...	1120	176	1580	8.2	21.0	770	180	79	73	1

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT 27...	5.0	233	1300	30	0.4	8.9	2080	2.83	253
DEC 08...	6.8	255	1400	34	0.4	11	2230	3.03	433
JAN 23...	5.3	280	1600	38	0.4	11	2530	3.44	191
FEB 16...	4.6	253	1700	37	0.4	9.0	2630	3.58	410
MAR 10...	5.8	264	1700	42	0.4	11	2660	3.61	653
MAY 04...	7.5	265	1600	39	0.4	3.7	2470	3.36	131
JUL 06...	4.3	236	730	18	0.4	11	1270	1.73	273
20...	4.1	236	680	15	0.4	13	1210	1.64	348
28...	4.1	240	730	18	0.3	12	1280	1.74	253
AUG 04...	5.5	243	740	17	0.4	12	1290	1.76	257
10...	4.3	241	740	17	0.4	12	1290	1.76	276
23...	5.9	212	680	17	0.4	12	1170	1.60	558

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 9 selected diversions are given in the following list.

09010000 Grand River Ditch diverts water from tributaries of Colorado River to La Poudre Pass Creek (tributary to Cache la Poudre River) in NW⁴/4 sec.21, T.6 N., R.75 W., in Platte River basin. Two collection ditches beginning at headgates located in sec.28, T.5 N., R.76 W., and sec.29, T.6 N., R.75 W., intercept all tributaries upstream on each side of the Colorado River and converge at La Poudre Pass.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09010000	0	0	0	0	0	0	0	0	5,110	9,230	5,010	724
Water year 1995, 20,080												

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 1994 TO SEPTEMBER 1995

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09013000	25,210	25,610	28,130	30,980	24,690	24,570	2,250	16,980	150	22,050	26,760	11,260
Water year 1995,	238,600											

09021500 Berthoud Pass Ditch diverts water from tributaries of Fraser River between headgate in sec.33, T.2 S., R.75 W., and Berthoud Pass, in Colorado River basin, to Hoop Creek (tributary to West Fork Clear Creek) in sec.10, T.3 S., R.75 W., in Platte River basin.

DIVERSIONS. IN ACRE-FEET. WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]

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 1994 TO SEPTEMBER 1995

[illegible]

TO ARKANSAS RIVER BASIN

REVISIONS (WATER YEARS).--WDR CO-86-1, WDR CO-86-2: 1984, 1985.

[illegible][illegible][illegible][illegible][illegible]

TRANSMOUNTAIN DIVERSIONS NO LONGER PUBLISHED

Following is a list of Transmountain Diversions no longer being published in this report. Diversions, in acre-feet, for these sites are available from the State of Colorado, Division of Water Resources.

TO PLATTE RIVER BASIN		TO ARKANSAS RIVER BASIN		TO RIO GRANDE BASIN	
09012000	Eureka Ditch	09061500	Columbine Ditch	09118200	Tarbell Ditch
09022500	Moffat Water Tunnel	09062000	Ewing Ditch	09121000	Tabor Ditch
09046000	Boreas Pass Ditch	09062500	Wurtz Ditch	09341000	Treasure Pass Ditch
09047300	Vidler Tunnel	09115000	Larkspur Ditch	09247000	Don LaFont Ditches 1&2
				09348000	Williams Creek Squaw Pass Ditch
				09351000	Pine River- Weminuche Pass Ditch
				09351500	Weminuche Pass Ditch

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in three tables. The first is a table of discharge measurements at low-flow partial-record stations; the second is a table of annual maximum stage and discharge at crest-stage stations; and the third is a table containing discharge measurements made at miscellaneous sites for both low flow and high flow are given in a fourth table.

LOW-FLOW PARTIAL-RECORD STATIONS

Measurements of streamflow in the area covered by this report made at low-flow, partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from 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 1995

Station no	Station name	Location	Drainage area (mi ²)	Period of record	Date	Discharge (ft ³ /s)
*09058900	Moniger Creek near Minturn, CO	Lat 39°43'37", long 106°28'50", in Eagle County, on left bank 1.5 mi upstream from mouth, 7.5 mi north of Minturn.	0.76	1965-95	6-3-95 6-6-90 b ₁₉₉₁ b ₁₉₉₂ b ₁₉₉₃	19 b c _{4.8} c _{6.7} c _{3.1}

*Also a crest-stage partial-record station.

a-Affected by backwater from ice.

b-Not determined.

c-Revised.

MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS

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 1995 maximum			Period of record maximum			
			Date	Gage height ft	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)	
PINEY RIVER BASIN									
*Moniger Creek near Minturn, CO (09058900)	Lat 39°43'37", long 106°28'50", in Eagle County, on left bank 1.5 mi upstream from mouth, 7.5 mi north of Minturn. Drain- age area is 0.76 mi ² .	1965-95	6-3-95 6-6-90 b1991 b1992 b1993	a, 1.90 c2.43 c1.50 c1.58 c1.40	19 b c4.8 c6.7 c3.1	5/21/89	2.05	29	
COLORADO RIVER BASIN									
Sweetwater Creek at mouth near Dot- sero, CO (09061450)	Lat 39°43'20", long, 107°02'22", in NW ¹ /4NE ¹ /4 sec.9, T.4 S., R.86 W., Eagle County, 5.3 mi north of Dotsero. Drainage area is 105 mi ² .	1979-95	6-17-95	9.87	620	7/12/76	18.60	7,390	
Mamm Creek near Silt, CO (09091100)	Lat 39°43'54", long 107°42'48", in NW ¹ /4NW ¹ /4 sec.18, T.6 S. R.92 W., Garfield County, 3.3 mi southeast of Silt. Drainage area is 63.3 mi ²	1979-95	5-29-95 b1992	13.47 10.94	c595 c155	05/29/95	13.47	595	
GUNNISON RIVER BASIN									
Dry Creek near Olathe, CO (09149450)	Lat 39°33'19", long 108°02'43", SW ¹ /4NE ¹ /4 sec.36, T.50 N., R.11 W., Montrose County, 4.9 mi southwest of Olathe. Drainage area is 102 mi ² .	1979-95	5-23-95 b1992 b1993	c1.98 c2.55 c2.91	c265 c270 c345	7/27/82	5.50	1,040	
SAN JUAN RIVER BASIN									
Junction Creek near Durango CO (09361400)	Lat 37°20'04", long 107°54'35", sec.36, T.36N., R.10 W., La Plata County, on left bank 4.5 mi upstream from mouth and 4.5 mi northwest of Durango. Drainage area is 26.3 mi ² .	1959-65, 1973, 1979-95	5-16-95	3.02	192	b1980	3.64	600	

* Also a low-flow partial-record station.

a-Affected by backwater from ice.

b-Not determined.

c-Revised.

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 (elevation 12,219 ft).

PERIOD OF RECORD.--July 2, 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 accumulated rainfall is good.

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.8	-3	12.8	-3.5	9.9	-8.6	2.8	-22.6	7.8	-7.9	-1.4	-4.9
2	10.2	-1.4	8.1	-7	4.9	-11.7	-7	-13.3	5.7	-8.6	3.9	-5.7
3	9.2	-1.4	-7	-7.1	5.7	-10.5	-1.4	-17.0	2.8	-11.3	1.4	-7.1
4	12.1	2.8	-3	-13.7	4.2	-3.8	-3.8	-11.3	5.7	-10.1	.4	-11.7
5	7.8	-2.8	8.5	-10.5	-1.0	-4.2	-4.6	-7.9	4.6	-10.5	1.4	-11.7
6	3.9	-3.1	11.7	-4.2	.0	-9.0	-7.9	-11.7	5.3	-10.5	-2.8	-19.3
7	4.9	-3.5	9.5	.0	-2.8	-9.0	-2.8	-12.9	9.9	-9.8	-1.7	-20.7
8	9.2	-3.5	.7	-7.9	-8.6	-23.6	2.5	-9.8	-7	-7.1	6.4	-17.9
9	12.8	-3.8	6.0	-10.5	-6.0	-23.1	7.4	-9.0	-2.8	-12.9	8.5	-9.8
10	14.3	-2.1	8.1	-6.0	5.7	-22.6	4.9	-8.3	-.3	-14.1	9.9	-8.6
11	12.8	-2.1	7.4	-2.8	-4.2	-16.6	-1.0	-9.4	-6.0	-9.0	6.7	-5.7
12	14.3	-2.8	1.4	-8.6	3.2	-15.3	-2.1	-14.5	-4.2	-7.1	2.1	-8.6
13	11.7	-.7	-3.8	-14.9	-3.8	-9.8	.7	-14.5	-1.4	-6.8	4.6	-10.9
14	5.3	-2.1	-4.6	-21.6	-5.3	-17.0	8.8	-6.8	-1.0	-7.1	9.2	-8.6
15	-1.4	-4.2	4.6	-17.0	-7.1	-18.3	2.5	-6.4	1.1	-14.5	11.7	-3.1
16	-.3	-7.9	.4	-7.5	1.1	-18.8	-6.0	-17.4	2.1	-17.0	11.3	-3.5
17	-.7	-7.1	-7.5	-13.3	8.1	-13.3	-8.3	-19.7	4.9	-12.9	7.8	-3.5
18	4.9	-6.8	-4.2	-10.5	7.1	-9.0	-6.8	-23.1	2.5	-11.3	9.5	-6.8
19	7.1	-6.8	-4.9	-10.9	.4	-14.1	1.4	-17.0	6.7	-12.9	3.2	-3.1
20	4.9	-7.5	-1.0	-15.3	1.4	-13.7	.4	-15.3	11.3	-6.8	8.1	-7.1
21	8.1	-7.5	.4	-8.3	10.2	-11.3	-2.8	-12.1	10.6	-3.5	8.8	.7
22	9.2	-6.0	-1.4	-15.7	7.8	-9.0	-3.1	-19.7	8.8	-6.4	4.9	-5.3
23	9.5	-4.6	4.2	-14.9	2.1	-3.5	1.4	-18.3	8.1	-8.3	5.3	-9.0
24	8.5	-4.6	4.6	-12.1	2.1	-4.2	-.3	-10.5	8.1	-7.1	-1.0	-9.8
25	9.5	-6.0	3.9	-9.8	3.9	-9.0	2.5	-9.8	7.4	-5.3	-5.7	-10.9
26	6.7	-4.2	-4.2	-14.5	3.5	-12.5	-1.7	-7.1	3.9	-8.3	-5.7	-15.7
27	10.6	-4.6	-8.3	-17.4	6.0	-13.7	-6.0	-9.4	5.3	-9.4	.0	-18.3
28	14.3	-2.4	-12.1	-17.4	5.7	-7.5	-3.8	-12.9	1.4	-4.9	-.7	-10.5
29	11.7	-3.8	-2.8	-24.1	1.1	-10.1	-5.3	-18.8	---	---	-5.3	-12.1
30	4.9	-9.0	4.6	-12.5	1.1	-9.4	3.5	-19.7	---	---	-4.6	-20.7
31	7.8	-9.4	---	---	-5.3	-19.7	2.8	-11.3	---	---	.0	-18.8
MONTH	14.3	-9.4	12.8	-24.1	10.2	-23.6	8.8	-23.1	11.3	-17.0	11.7	-20.7
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.4	-14.5	9.2	-9.8	15.0	-1.7	11.3	3.2	20.5	3.9	22.9	6.4
2	7.8	-9.0	5.7	-4.9	11.3	-.7	13.9	1.1	20.9	3.9	21.3	6.7
3	6.0	-10.9	4.2	-4.6	11.7	-2.4	11.3	-.3	21.3	6.4	22.1	5.3
4	9.5	-8.6	10.2	-6.0	8.5	.4	8.5	.0	20.1	7.1	21.7	6.7
5	9.2	-6.0	5.7	-5.3	15.4	-.7	16.5	-1.4	20.5	5.7	20.5	6.4
6	10.2	-3.8	1.8	-7.5	12.8	2.1	21.7	1.8	21.7	6.4	17.7	6.0
7	9.5	-4.6	3.5	-5.3	11.0	1.1	20.5	4.9	22.1	7.8	12.8	5.3
8	8.5	-3.8	-.3	-5.3	9.5	-1.7	22.1	5.3	21.7	7.1	12.1	4.6
9	1.4	-10.5	3.2	-3.1	9.9	-6.0	22.9	6.7	19.7	7.4	13.9	1.8
10	-3.8	-10.9	10.2	-6.4	11.0	-2.4	22.5	7.4	23.8	7.8	14.3	1.8
11	-1.0	-11.7	9.2	-1.7	17.7	-2.4	22.1	6.4	21.7	8.1	15.4	1.1
12	10.2	-10.9	3.9	-5.3	18.9	.0	20.9	5.3	18.9	7.1	15.0	-.7
13	10.2	-4.2	5.7	-6.0	20.1	2.1	18.9	4.9	18.1	6.7	17.7	.7
14	4.9	-3.8	11.3	.7	19.3	2.8	15.0	3.5	19.3	4.6	16.5	1.8
15	-1.4	-6.4	13.1	.7	16.1	2.5	17.3	2.1	19.7	2.5	17.3	.4
16	4.6	-11.7	11.0	-.7	13.9	2.1	19.3	4.6	18.1	5.3	17.3	1.1
17	.7	-7.5	1.1	-1.7	10.2	-.3	13.5	6.0	19.3	6.4	16.5	2.1
18	1.8	-7.1	10.2	-1.7	13.5	-3.1	15.4	5.7	20.5	4.2	11.3	-.3
19	1.8	-6.8	9.5	-2.4	16.1	-.3	17.3	5.3	19.7	7.1	12.4	-1.0
20	-.7	-9.4	11.3	-1.4	16.9	1.4	16.1	2.8	16.1	7.1	13.1	-.3
21	3.9	-10.9	14.3	-.3	16.1	2.1	17.7	3.9	18.5	7.1	6.7	-4.9
22	-.3	-9.4	12.4	.7	15.4	-.3	18.9	2.8	18.5	6.0	9.9	-7.1
23	-.7	-7.1	8.5	-3.1	15.4	-.3	17.3	3.2	18.5	7.1	11.3	-3.8
24	3.9	-10.9	6.7	-2.4	15.0	-.3	18.5	2.5	15.8	6.4	6.7	-3.8
25	7.1	-8.6	6.7	-2.8	15.8	.4	21.7	4.2	17.7	4.9	11.3	-7.5
26	6.4	-6.0	6.4	-2.4	16.1	1.1	22.9	5.3	20.1	4.6	11.7	-1.0
27	9.5	-5.3	5.3	-4.2	16.9	2.5	22.9	6.7	18.5	6.0	13.9	.7
28	8.8	-1.4	4.9	-3.8	14.3	4.2	25.1	6.4	18.5	5.7	10.2	1.8
29	9.2	-2.4	6.4	-1.4	13.5	3.2	24.6	8.1	18.9	5.7	9.2	-3.1
30	6.4	-7.1	4.2	-1.7	12.1	3.5	21.3	7.4	19.7	5.3	6.7	-3.1
31	---	---	12.1	-.7	---	---	19.3	5.7	22.1	5.3	---	---
MONTH	10.2	-14.5	14.3	-9.8	20.1	-6.0	25.1	-1.4	23.8	2.5	22.9	-7.5
YEAR	25.1	-24.1										

375546107412000 IRONTON METEOROLOGICAL STATION NEAR OURAY, CO--Continued

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.1	.0	.0	.0	.1	.8	.0	.0	.0	.5	.0	.0
2	.2	.0	.0	.0	.0	.3	.0	.5	.0	.0	.0	.1
3	.1	.6	.0	.0	.0	.2	.0	.1	.0	.5	.0	.0
4	.2	.0	.0	.0	.0	.2	.0	.0	.4	.0	.0	.0
5	.1	.0	.2	.3	.0	.4	.0	.3	.1	.0	.0	.0
6	.1	.0	.5	.3	.0	.7	.0	.1	.0	.0	.0	.2
7	.1	.0	.0	.3	.0	.0	.0	.6	.0	.0	.2	.2
8	.0	.6	.0	.1	.2	.0	.0	.8	.1	.0	.0	.6
9	.0	.0	.0	.0	.1	.0	.6	.2	.0	.0	.0	.1
10	.0	.0	.0	.0	.2	.0	.3	.1	.0	.0	.0	.0
11	.0	.1	.0	.1	.6	.2	.0	.0	.0	.0	.0	.0
12	.0	1.1	.0	.3	.1	.3	.0	.4	.0	.0	.3	.0
13	.0	.1	.1	.0	.2	.0	.0	.1	.0	.1	.0	.0
14	.3	.0	.1	.0	.7	.0	.0	.0	.0	.1	.1	.0
15	.4	.0	.0	.3	.0	.0	.2	.0	.3	.0	.0	.0
16	.1	.1	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0
17	.4	.2	.0	.0	.0	.1	.1	.2	1.0	.0	.1	.0
18	.0	.0	.0	.0	.0	.0	.2	.1	.0	.1	.0	.1
19	.0	.5	.0	.0	.0	.1	.2	.0	.0	.0	.5	.0
20	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1
21	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
22	.0	.1	.0	.0	.0	.2	.1	.0	.0	.0	.3	.0
23	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.1	.0
24	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.1	.1
25	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.2	.0
26	.0	.3	.0	.2	.1	.1	.1	.0	.0	.0	.4	.3
27	.0	.2	.0	.3	.0	.0	.0	.2	.0	.0	.1	.0
28	.0	.2	.0	.1	.3	.1	.0	.1	.1	.0	.1	.4
29	.0	.0	.0	.0	---	.4	.0	.3	.1	.0	.0	.9
30	.0	.0	.1	.0	---	.0	.6	.3	.4	.0	.0	.2
31	.0	---	.0	.0	---	.0	---	.0	---	.0	.0	---
TOTAL	2.1	4.7	1.0	2.5	2.6	4.4	3.2	4.7	2.5	1.4	3.0	3.4

WTR YR 1995 TOTAL 35.5

[illegible]

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 6, 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 accumulated rainfall is good. Maximum and minimum air temperature could not be determined for Mar. 7 because of missed transmissions.

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	13.9	3.9	18.9	1.4	7.8	-3.1	-5.3	-16.2	9.2	-3.8	1.4	-1.4
2	13.5	2.5	11.7	6.0	6.4	-4.9	-7	-9.4	8.1	-2.4	3.9	-1.7
3	15.8	7.4	6.0	-3.1	6.4	-4.9	-3	-10.1	6.0	-3.8	3.2	-1.7
4	16.9	5.7	1.4	-7.5	6.4	-1.4	.0	-6.4	8.1	-4.2	2.5	-2.1
5	13.5	1.1	6.4	-4.9	4.6	-1.0	1.1	-3.5	8.1	-3.1	4.6	-3.1
6	8.8	1.1	11.7	-.3	4.6	-3.1	-2.8	-10.1	7.8	-2.1	-.3	-11.3
7	8.1	.4	14.3	6.7	2.5	-3.8	2.5	-8.6	9.2	-1.7	---	---
8	11.7	-.3	6.7	-1.7	-3.8	-16.6	4.2	-5.7	4.9	-1.7	7.4	-10.5
9	15.8	1.4	6.7	-4.6	-6.0	-18.3	6.4	-3.5	2.8	-4.2	9.5	-4.2
10	17.3	3.9	12.4	3.5	3.5	-16.2	8.1	-4.2	2.8	-7.1	12.1	.7
11	18.5	4.9	11.3	3.9	4.2	-10.1	5.7	-2.8	-.3	-4.2	11.3	.7
12	16.5	3.5	4.9	-1.4	1.4	-10.1	.4	-7.1	2.1	-2.8	3.9	-2.4
13	16.5	4.2	1.1	-8.6	1.4	-6.0	3.5	-7.1	3.2	-1.4	7.1	-3.8
14	10.2	2.8	-3.5	-13.3	-1.7	-10.5	7.8	-.7	3.2	-4.9	11.3	-2.8
15	4.2	.7	6.7	-11.3	-3.5	-10.9	6.7	-2.1	1.8	-9.8	13.5	3.9
16	4.9	-1.4	6.7	-1.0	.7	-11.3	-2.1	-10.1	5.3	-9.0	14.3	2.1
17	2.5	-3.1	-1.0	-8.3	4.2	-6.0	-6.0	-12.1	7.8	-4.6	9.5	1.1
18	7.1	-1.0	.7	-4.9	8.1	-1.7	-4.2	-15.3	4.9	-4.2	12.4	.0
19	9.5	-.7	-1.4	-7.1	5.7	-6.8	.0	-11.3	8.5	-4.6	8.5	.4
20	9.2	-.3	-.3	-10.5	2.8	-7.9	-1.7	-11.7	11.3	-2.4	12.8	-1.0
21	12.1	-.7	.4	-5.3	5.7	-6.0	-.7	-8.3	12.4	3.2	13.5	6.4
22	13.9	.7	-1.4	-12.1	7.8	-2.8	-2.4	-12.5	11.3	.7	7.1	.0
23	13.9	1.8	1.8	-10.5	6.4	-2.4	1.4	-10.1	9.5	-2.1	11.0	2.1
24	11.3	2.5	3.5	-7.9	4.9	-2.4	.4	-7.1	11.0	-.7	4.9	-3.5
25	12.8	1.4	7.8	-5.7	5.3	-3.1	6.4	-2.4	8.1	.7	.7	-6.8
26	10.6	2.1	2.5	-9.8	1.8	-5.7	1.8	-3.1	4.6	-.3	-.7	-8.3
27	13.5	1.1	-5.7	-13.7	2.5	-8.3	-2.1	-5.3	7.4	-1.4	3.5	-9.4
28	18.1	4.2	-7.1	-12.5	4.9	-7.1	-3.8	-6.8	2.5	-1.0	.0	-5.3
29	16.5	3.2	-3.5	-16.2	2.5	-4.2	-3.1	-12.1	---	---	-2.8	-7.1
30	7.4	-1.4	4.9	-9.4	1.1	-4.9	1.1	-12.5	---	---	-1.4	-12.9
31	11.0	-3.5	---	---	-2.1	-12.9	7.1	-4.9	---	---	2.1	-10.9
MONTH	18.5	-3.5	18.9	-16.2	8.1	-18.3	8.1	-16.2	12.4	-9.8	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.8	-6.0	12.4	-1.7	19.7	4.6	14.6	7.8	26.0	12.1	27.8	15.0
2	8.1	-1.0	9.9	.4	17.3	7.1	20.1	6.7	26.4	12.1	26.0	16.5
3	9.2	-3.1	8.1	-.3	17.7	5.3	15.4	1.4	26.4	14.6	26.9	14.3
4	13.1	-.7	15.4	.0	12.8	6.0	14.3	3.9	26.4	13.1	27.8	16.5
5	12.4	1.1	10.2	2.5	20.9	4.2	20.9	4.2	26.0	11.7	27.3	12.8
6	15.4	2.8	7.4	-2.4	18.1	10.2	25.5	10.2	26.9	15.8	21.3	11.3
7	14.6	2.5	7.1	-1.0	16.1	4.6	26.4	15.4	25.5	17.3	19.3	9.9
8	14.3	2.8	3.9	-1.4	15.0	.7	27.8	15.8	28.7	17.7	18.1	8.8
9	2.8	-6.4	8.1	.7	13.9	.4	26.9	16.9	24.6	14.3	18.1	7.1
10	-1.4	-6.4	13.1	.0	16.1	3.5	27.3	16.5	26.9	16.1	17.7	6.7
11	3.2	-7.1	13.5	2.1	21.3	4.2	27.3	15.0	27.8	13.1	20.1	7.1
12	13.1	-3.8	9.2	.0	24.2	8.1	26.4	15.8	24.2	12.8	19.3	6.7
13	15.0	5.3	10.2	-1.0	25.1	12.1	24.2	9.2	22.5	10.6	21.3	7.4
14	10.6	1.4	16.5	7.8	25.1	12.8	18.5	8.5	21.3	11.3	20.5	10.2
15	4.9	-1.4	20.5	9.2	22.5	10.2	21.3	7.1	24.6	10.2	21.3	8.1
16	10.2	-3.5	15.8	1.8	19.7	9.2	24.2	12.1	20.9	12.8	22.5	9.2
17	5.7	-3.5	4.6	1.8	10.2	2.5	18.1	12.1	23.8	11.0	21.3	12.1
18	6.4	-3.1	13.5	2.5	18.5	-.7	19.3	10.2	25.5	12.1	15.4	4.9
19	2.8	-2.4	14.3	2.5	21.7	7.1	21.7	10.2	23.3	10.6	17.3	3.9
20	2.8	-3.8	16.1	4.6	21.7	9.9	22.1	8.5	20.1	10.6	19.3	8.1
21	6.0	-5.7	18.5	5.3	21.7	11.0	22.9	10.6	22.1	12.1	10.6	.4
22	2.8	-3.1	18.1	7.4	21.3	6.0	24.6	10.6	21.3	10.6	13.5	-2.4
23	4.2	-3.1	14.3	5.7	19.3	6.4	21.3	8.5	21.3	11.7	17.7	2.5
24	6.0	-4.9	12.8	2.8	19.7	6.7	23.3	8.5	20.1	12.1	12.1	1.1
25	12.1	-1.7	10.2	3.9	20.9	7.8	26.0	12.8	20.9	10.6	15.4	-1.4
26	10.6	-.3	11.0	2.1	22.5	9.5	28.7	15.4	25.5	10.6	15.8	3.5
27	14.3	1.4	10.2	-.3	22.5	12.4	28.2	14.3	23.8	11.3	19.3	8.8
28	15.0	4.9	9.2	.7	21.3	9.5	29.7	15.8	22.9	11.0	13.5	8.1
29	16.1	2.5	8.5	1.1	17.3	8.8	29.2	19.7	24.2	13.5	12.1	.0
30	11.0	.4	8.5	2.5	15.4	8.1	27.3	15.0	26.0	12.8	10.6	.4
31	---	---	16.5	3.2	---	---	25.1	13.1	27.3	14.3	---	---
MONTH	16.1	-7.1	20.5	-2.4	25.1	-.7	29.7	1.4	28.7	10.2	27.8	-2.4

380102107402200 OURAY METEOROLOGICAL STATION AT OURAY, CO--Continued

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.2	.0	.0	.0	.0	.7	.0	.0	.0	.2	.0	.0
2	.0	.0	.0	.0	.0	.3	.0	.7	.0	.0	.0	.0
3	.0	.4	.0	.0	.0	.1	.0	.1	.0	.8	.0	.0
4	.1	.0	.0	.0	.0	.1	.0	.0	.2	.1	.0	.0
5	.2	.0	.1	.1	.0	.3	.0	.2	.0	.0	.0	.0
6	.0	.0	.4	.4	.0	.9	.0	.0	.0	.0	.0	.1
7	.0	.0	.0	.3	.0	.0	.0	.2	.0	.0	.0	.3
8	.0	.5	.1	.0	.0	.0	.0	.8	.2	.0	.0	.2
9	.0	.0	.0	.0	.0	.0	1.0	.1	.0	.0	.0	.1
10	.0	.0	.0	.0	.0	.0	.5	.1	.0	.0	.0	.0
11	.0	.1	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0
12	.0	.8	.0	.2	.0	.1	.0	.3	.0	.0	.6	.0
13	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	.1	.0
14	.1	.0	.0	.0	.3	.0	.0	.0	.0	.2	.1	.0
15	.0	.0	.0	.1	.0	.0	.1	.0	.2	.0	.0	.0
16	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0
17	.2	.0	.0	.0	.0	.0	.1	.2	.9	.0	.1	.0
18	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.1
19	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0
20	.0	.1	.0	.0	.0	.0	.0	.2	.0	.1	.1	.0
21	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
22	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0
23	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0
24	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0
25	.0	.0	.0	.0	.1	.2	.1	.1	.0	.0	.0	.0
26	.4	.4	.0	.1	.1	.4	.1	.0	.0	.0	.2	.1
27	.0	.2	.0	.4	.0	.0	.0	.2	.0	.0	.3	.0
28	.0	.0	.0	.2	.2	.1	.0	.1	.1	.0	.0	.1
29	.0	.0	.0	.2	---	.6	.0	.3	.3	.0	.0	.8
30	.0	.0	.1	.0	---	.0	.4	.1	.5	.0	.0	.1
31	.0	---	.0	.0	---	.0	---	.0	---	.0	.0	---
TOTAL	1.2	3.5	0.8	2.2	0.7	4.3	3.1	3.9	2.4	1.7	1.8	2.0

WTR YR 1995 TOTAL 27.6

380251107513000 WEST FORK DALLAS CREEK METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.3	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0
2	.0	.0	.0	.0	.0	.3	.0	.8	.0	.0	.0	.4
3	.0	.7	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0
4	.1	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
5	.4	.0	.2	.2	.0	.6	.0	.0	.0	.0	.0	.0
6	.0	.0	.3	.2	.0	1.8	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.2
8	.0	.5	.1	.0	.1	.0	.0	.5	.0	.0	.0	.3
9	.0	.0	.0	.0	.1	.0	1.0	.1	.0	.0	.2	.4
10	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.2	.1
11	.0	.0	.0	.0	.1	.3	.0	.1	.0	.0	.0	.0
12	.0	.7	.0	.2	.0	.2	.0	.0	.0	.0	.1	.0
13	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.1	.0
14	.2	.1	.0	.0	.6	.0	.0	.1	.0	.0	.2	.0
15	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0
16	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
17	.3	.1	.0	.1	.0	.0	.2	.0	.0	.0	.0	.1
18	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.5
19	.0	.7	.0	.0	.0	.1	.0	.0	.0	.0	.6	.0
20	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.4	.0
21	.0	.2	.0	.0	.0	.0	.4	.0	.0	.0	.1	.1
22	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.1	.0
23	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0
24	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0
25	.0	.0	.0	.0	.1	.3	.1	.0	.0	.0	.0	.0
26	.0	.3	.0	.2	.1	.4	.1	.0	.0	.0	.1	.1
27	.0	.1	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0
28	.0	.1	.0	.3	.1	.3	.0	.0	.0	.0	.0	.1
29	.0	.0	.0	.1	---	.0	.0	.0	.0	.0	.0	1.1
30	.0	.0	.1	.0	---	.7	.6	.0	.0	.0	.0	.1
31	.0	---	.0	.0	---	.5	---	.0	---	.0	.0	---
TOTAL	1.3	3.6	0.8	2.3	1.2	7.0	3.8	2.6	0.0	0.0	2.2	3.6

WTR YR 1995 TOTAL 28.4

380324107444500 WHITEHOUSE CREEK METEOROLOGICAL STATION NEAR OURAY, CO--Continued

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.2	.0	.0	.0	.0	.9	.3	.0	.0	.2	.0	.0
2	.0	.0	.0	.0	.0	.3	.1	.6	.0	.1	.0	.3
3	.0	.9	.0	.0	.0	.2	.0	.2	.0	.7	.0	.0
4	.1	.0	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0
5	.4	.0	.1	.2	.0	.4	.0	.2	.1	.0	.0	.1
6	.0	.0	.3	.3	.0	1.9	.0	.0	.0	.0	.0	.2
7	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.1
8	.0	.4	.1	.0	.1	.0	.0	.9	.1	.0	.0	.2
9	.0	.0	.0	.0	.1	.0	1.2	.1	.0	.0	.0	.2
10	.0	.0	.0	.0	.0	.0	.5	.2	.0	.0	.0	.0
11	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
12	.0	.6	.0	.3	.0	.0	.0	.4	.0	.0	.4	.0
13	.0	.1	.1	.0	.0	.0	.0	.0	.0	.5	.1	.0
14	.1	.0	.0	.0	.3	.0	.0	.0	.0	.1	.4	.0
15	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
16	.1	.0	.0	.1	.0	.0	.0	.2	.1	.0	.0	.0
17	.3	.1	.0	.1	.0	.0	.2	.4	.7	.0	.0	.0
18	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	.0	.4
19	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0
20	.0	.2	.0	.0	.0	.0	.1	.0	.0	.0	.4	.1
21	.0	.3	.0	.0	.0	.0	.1	.0	.0	.0	.4	.1
22	.0	.1	.0	.0	.0	.2	.0	.0	.0	.0	.2	.0
23	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.3	.0
24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	.0	.0	.0	.0	.1	.3	.1	.1	.0	.0	.0	.0
26	.0	.5	.0	.2	.0	.2	.1	.0	.0	.0	.1	.1
27	.0	.2	.0	.5	.0	.1	.0	.3	.0	.0	.3	.0
28	.0	.0	.0	.4	.2	.2	.0	.2	.1	.0	.0	.1
29	.0	.0	.0	.2	---	.4	.0	.3	.3	.0	.0	.7
30	.0	.0	.2	.0	---	1.1	.4	.1	.3	.0	.0	.1
31	.0	---	.0	.0	---	.8	---	.0	---	.0	.0	---
TOTAL	1.2	4.3	0.8	2.5	0.8	7.2	4.1	4.6	1.8	1.8	3.3	2.7

WTR YR 1995 TOTAL 35.1

380436107411500 PORTLAND METEOROLOGICAL STATION NEAR OURAY, CO

LOCATION.--Lat 38°04'36", long 107°41'15", in SE¹/4NW¹/4 sec.12, T.44 N, R.8 W., Ouray County, Hydrologic Unit 14020006, 4 mi north of Ouray, and 8.6 mi east of Black Lake.

PERIOD OF RECORD.--May 27, 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 accumulated rainfall is good. Missing maximum and minimum air temperatures are due to missed transmissions.

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	15.8	3.9	18.9	3.2	8.8	-1.0	-5.7	-14.5	7.8	-3.5	2.1	-1.7
2	13.9	2.8	13.9	5.7	6.7	-3.1	-7	-7.9	8.1	.7	3.5	-2.1
3	15.8	7.4	6.0	-3.5	8.1	-3.5	-3	-9.0	5.7	-3.8	4.6	-2.1
4	17.7	5.3	2.1	-6.4	7.4	-7	-3	-6.4	8.5	-2.4	4.9	-1.7
5	---	---	7.1	-4.9	3.2	-1.0	-1.7	-4.9	7.8	-1.7	6.0	-1.7
6	10.2	1.1	12.1	.0	3.5	-4.6	-1.4	-7.9	7.4	-1.0	-.3	-9.8
7	8.8	-.3	15.8	7.1	3.5	-4.2	2.1	-6.0	9.2	-1.0	1.1	-12.5
8	11.3	-.3	7.4	-1.4	-4.2	-16.2	4.2	-4.6	6.4	-1.7	5.7	-7.9
9	16.9	3.2	8.1	-2.8	-7.1	-17.0	7.1	-1.7	2.8	-4.6	11.0	-2.1
10	17.7	5.7	13.5	1.4	-3.5	-14.9	8.1	-1.7	2.5	-4.6	12.8	1.1
11	17.7	5.7	12.1	4.2	3.5	-10.1	5.7	-1.7	.0	-4.2	11.7	.0
12	17.3	5.3	6.0	-3.5	1.4	-10.1	-.3	-5.7	3.2	-2.1	4.2	-2.4
13	17.7	6.0	1.8	-9.4	2.5	-6.0	2.8	-5.7	4.9	-2.4	7.8	-2.4
14	11.7	2.8	-4.2	-13.3	-2.4	-9.0	7.4	.0	4.9	-5.3	11.3	-2.1
15	7.1	1.1	3.2	-10.9	-3.8	-9.8	7.4	-2.8	2.1	-10.1	13.9	4.9
16	4.9	-3.1	7.4	-1.4	1.1	-9.4	-2.8	-9.0	3.2	-7.5	13.5	3.9
17	2.5	-3.5	-.7	-8.6	3.5	-4.9	-4.2	-10.9	7.1	-3.8	9.9	3.5
18	7.1	-.7	.7	-6.0	8.5	-.7	-3.5	-13.7	6.0	-2.1	12.4	2.5
19	8.8	-.7	-1.7	-7.9	4.6	-6.0	-.3	-10.9	8.1	-3.8	8.5	1.1
20	9.2	1.1	-1.0	-10.9	2.1	-6.4	-2.1	-9.8	11.3	.0	12.8	.0
21	12.4	.7	-.3	-5.7	6.0	-5.3	-1.0	-7.5	13.5	3.5	15.4	6.4
22	13.9	3.5	-2.8	-9.8	7.8	-.3	-2.4	-12.1	11.3	2.8	7.8	-.3
23	14.3	3.9	3.2	-9.0	6.7	-2.4	.0	-9.8	---	---	11.3	.7
24	11.3	3.2	4.9	-5.3	4.9	-3.1	.7	-4.6	---	---	4.9	-3.8
25	12.8	1.8	7.8	-3.8	5.3	-1.4	8.8	-1.0	---	---	-2.1	-6.8
26	12.4	2.8	3.2	-10.1	2.5	-4.6	2.5	-3.5	---	---	-.7	-7.1
27	13.9	3.5	-7.5	-13.3	2.8	-6.8	-1.4	-5.7	---	---	3.5	-8.3
28	18.5	6.4	-6.4	-11.7	6.4	-4.9	-2.8	-7.1	---	---	-1.7	-5.7
29	16.5	3.9	-2.1	-15.3	2.8	-3.5	-3.8	-10.9	---	---	-1.7	-8.3
30	8.1	-2.1	4.2	-9.0	1.8	-5.3	1.1	-11.7	---	---	-1.0	-10.9
31	11.3	-2.1	---	---	-1.0	-12.9	6.7	-3.1	---	---	2.8	-9.0
MONTH	---	---	18.9	-15.3	8.8	-17.0	8.8	-14.5	---	---	15.4	-12.5
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.2	-4.2	12.8	-.7	20.5	6.4	16.5	8.1	26.0	12.4	28.2	18.1
2	8.8	1.4	10.2	-.3	19.3	9.9	20.1	6.7	26.4	13.9	26.4	16.1
3	9.5	-1.7	8.1	-.7	18.5	6.0	13.9	1.4	25.5	15.0	27.8	14.6
4	13.1	1.4	15.0	1.4	12.4	5.7	13.1	4.2	25.1	14.3	28.7	18.5
5	13.9	4.2	10.6	2.1	22.1	6.0	22.1	6.7	26.4	12.4	26.9	12.4
6	15.0	6.4	9.2	-2.4	19.3	9.2	26.4	10.2	27.8	17.7	21.3	11.3
7	14.6	3.9	7.8	-1.4	16.9	3.9	26.4	16.5	25.5	19.3	16.9	11.3
8	14.6	2.1	7.4	-1.4	16.1	.7	27.3	15.8	28.2	18.5	19.7	9.5
9	2.1	-6.8	8.8	.7	13.5	.7	28.2	18.5	24.6	15.4	17.3	7.8
10	-.3	-6.8	12.8	2.1	16.5	3.5	27.8	18.9	28.2	15.8	16.9	6.7
11	4.6	-7.9	15.0	3.2	22.5	6.4	29.2	17.7	28.2	13.9	20.1	8.5
12	12.8	-1.4	6.7	.4	25.5	11.3	27.8	16.5	24.2	13.1	20.1	7.4
13	16.1	4.9	9.5	-.7	26.4	14.6	23.8	8.5	22.1	11.0	23.3	7.8
14	11.0	1.8	18.1	6.7	26.0	14.6	18.1	8.1	21.7	10.2	21.3	11.3
15	4.6	-2.1	20.5	8.5	23.8	9.5	22.5	8.5	25.5	11.7	21.3	9.2
16	11.3	-3.8	16.5	1.4	20.1	9.2	22.9	12.4	22.1	13.5	22.9	10.6
17	5.7	-3.8	3.9	1.1	9.2	2.8	18.5	12.4	24.6	12.1	21.3	11.0
18	6.7	-2.8	13.5	2.8	18.9	.4	18.5	11.0	26.4	13.5	16.1	5.7
19	5.3	-3.1	15.4	3.9	22.9	9.2	21.3	10.2	20.9	10.6	17.7	4.2
20	3.2	-3.8	17.7	6.0	23.3	11.3	22.5	9.9	19.7	10.2	18.5	8.1
21	4.6	-5.7	19.3	7.4	22.1	10.6	22.9	11.0	21.7	12.4	10.2	-.3
22	3.2	-4.9	19.3	8.8	21.3	6.4	24.6	11.3	21.7	11.3	13.9	-2.8
23	2.8	-3.8	15.0	6.4	20.1	7.1	23.3	9.5	22.1	12.1	17.3	4.9
24	6.7	-5.3	14.6	3.5	20.5	7.4	24.6	9.9	20.1	12.4	12.4	2.1
25	13.5	.4	10.6	4.2	21.7	8.8	27.3	13.9	22.1	12.1	15.8	-1.4
26	10.6	-1.0	11.7	2.5	22.9	10.6	28.2	16.9	25.1	12.4	16.1	4.2
27	14.6	2.5	11.7	-.3	22.1	11.7	28.7	16.1	23.3	11.7	20.5	9.5
28	14.6	4.6	7.8	.0	22.1	10.2	29.7	15.4	22.1	12.8	15.0	8.5
29	16.5	2.1	7.8	1.8	16.9	8.1	28.7	20.5	24.6	13.9	12.4	.4
30	12.1	.7	8.8	2.5	16.1	7.1	26.4	16.5	26.9	14.6	10.6	.0
31	---	---	16.9	5.3	---	---	25.1	13.9	27.3	16.1	---	---
MONTH	16.5	-7.9	20.5	-2.4	26.4	.4	29.7	1.4	28.2	10.2	28.7	-2.8

380436107411500 PORTLAND METEOROLOGICAL STATION NEAR OURAY, CO--Continued

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.2	.0	.0	.0	.0	.6	.0	.0	.0	.1	.0	.0
2	.0	.0	.0	.0	.0	.2	.0	.5	.0	.0	.0	.0
3	.0	.6	.0	.0	.0	.1	.0	.1	.0	.7	.0	.0
4	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0
5	.0	.0	.0	.2	.0	.2	.0	.1	.0	.0	.0	.1
6	.0	.0	.3	.2	.0	1.3	.0	.0	.0	.0	.0	.1
7	.0	.0	.0	.1	.0	.0	.0	.4	.0	.0	.0	.1
8	.0	.3	.1	.0	.0	.0	.0	.7	.2	.0	.0	.3
9	.0	.0	.0	.0	.1	.0	1.0	.0	.0	.0	.0	.1
10	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.2
11	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.1	.0
12	.0	.4	.0	.3	.0	.1	.0	.3	.0	.0	.4	.0
13	.0	.0	.1	.0	.0	.0	.0	.0	.0	.6	.1	.0
14	.1	.0	.0	.0	.1	.0	.0	.0	.0	.5	.2	.0
15	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
16	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0
17	.2	.0	.0	.1	.0	.0	.1	.3	.7	.0	.1	.0
18	.0	.0	.0	.0	.0	.0	.0	.1	.0	.2	.0	.3
19	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0
20	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0
21	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
22	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.1	.0
23	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.1	.0
24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
26	.0	.3	.0	.1	.1	.4	.1	.0	.0	.0	.2	.0
27	.0	.1	.0	.3	.0	.0	.0	.1	.0	.0	.8	.0
28	.0	.0	.0	.2	.1	.2	.0	.1	.1	.0	.0	.1
29	.0	.0	.0	.2	---	.8	.0	.3	.2	.0	.0	.6
30	.0	.0	.1	.0	---	.0	.4	.1	.2	.0	.0	.1
31	.0	---	.0	.0	---	.0	---	.0	---	.0	.0	---
TOTAL	0.6	2.7	0.6	1.8	0.4	4.6	2.5	3.4	1.7	2.2	2.6	2.1

WTR YR 1995 TOTAL 18.5

380844107512200 PLEASANT VALLEY METEOROLOGICAL STATION NEAR RIDGWAY, CO

LOCATION.--Lat 38°08'44", long 107°51'22", in SE¹/4SE¹/4 sec.16, T.45 N, R.9 W., Ouray County, Hydrologic Unit 14020006, 5.3 mi west of Ridgway.

PERIOD OF RECORD.--October 27, 1994 to September 1995.

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 accumulated rainfall is good. No data for air temperature Mar. 2 to July 20 because of bad temperature sensor.

TEMPERATURE, AIR, (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	17.3	-1.0	8.5	-6.0	-3.1	-18.3	9.5	-5.3	3.9	-2.4
2	---	---	11.7	7.1	7.4	-6.4	.0	-11.3	9.5	-3.1	---	---
3	---	---	7.1	-2.8	8.1	-6.4	.0	-13.3	6.7	-5.7	---	---
4	---	---	1.1	-6.8	8.5	-1.7	.4	-7.5	11.0	-7.9	---	---
5	---	---	7.8	-6.8	2.1	-.7	-.7	-4.9	8.5	-5.7	---	---
6	---	---	13.5	-2.1	4.2	-3.8	-1.7	-7.1	9.9	-5.3	---	---
7	---	---	16.1	6.0	4.6	-4.6	2.8	-4.6	10.2	-5.3	---	---
8	---	---	8.8	-2.8	-2.8	-19.7	4.9	-2.8	6.0	-4.2	---	---
9	---	---	8.8	-4.9	-6.0	-21.6	7.4	-3.1	2.5	-5.7	---	---
10	---	---	14.3	-3.1	-1.4	-20.2	8.1	-4.6	2.8	-3.8	---	---
11	---	---	13.5	.7	.4	-12.9	6.4	-2.8	1.4	-3.1	---	---
12	---	---	6.4	-1.0	1.1	-12.9	.4	-7.5	2.5	-.3	---	---
13	---	---	1.8	-9.4	4.2	-5.3	4.2	-6.8	4.2	-.7	---	---
14	---	---	-3.1	-15.3	-2.4	-13.3	8.5	-1.0	4.9	-4.6	---	---
15	---	---	4.6	-13.3	-2.4	-13.7	7.8	-1.7	3.2	-11.7	---	---
16	---	---	8.5	-3.5	2.1	-14.5	-1.7	-8.6	4.6	-11.3	---	---
17	---	---	-2.4	-7.5	6.4	-9.4	-3.8	-12.9	7.8	-8.3	---	---
18	---	---	2.1	-6.0	9.2	-7.9	-3.1	-17.4	7.4	-4.9	---	---
19	---	---	.0	-7.5	4.6	-10.9	2.5	-14.5	9.5	-7.5	---	---
20	---	---	-.7	-14.1	4.2	-11.3	2.1	-13.7	12.1	-4.6	---	---
21	---	---	1.4	-6.0	8.1	-10.1	.0	-9.8	13.1	-2.1	---	---
22	---	---	.0	-14.5	10.6	-6.8	.7	-14.9	13.9	-1.0	---	---
23	---	---	3.2	-15.3	6.0	-4.2	2.1	-16.6	10.6	-3.8	---	---
24	---	---	5.7	-10.1	5.7	-4.2	3.5	-11.7	11.7	-2.4	---	---
25	---	---	7.4	-6.8	7.1	-4.2	7.4	-4.9	8.5	-1.4	---	---
26	---	---	2.8	-9.0	5.7	-3.1	1.4	-2.1	6.0	-2.1	---	---
27	15.0	-.7	-6.4	-14.9	3.9	-7.9	-.7	-4.6	8.8	-2.4	---	---
28	18.5	2.1	-6.4	-13.7	8.1	-9.4	-1.4	-6.0	6.4	-.7	---	---
29	16.1	-.3	-2.8	-20.2	4.2	-6.0	-2.4	-14.1	---	---	---	---
30	9.5	-4.9	6.7	-11.3	5.7	-4.9	1.4	-16.2	---	---	---	---
31	12.1	-6.4	---	---	-1.4	-14.5	8.1	-6.0	---	---	---	---
MONTH	---	---	17.3	-20.2	10.6	-21.6	8.5	-18.3	13.9	-11.7	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	---	---	26.0	7.1	29.7	12.1
2	---	---	---	---	---	---	---	---	27.8	7.4	27.3	12.8
3	---	---	---	---	---	---	---	---	26.9	10.6	28.2	9.9
4	---	---	---	---	---	---	---	---	26.4	12.1	28.7	12.4
5	---	---	---	---	---	---	---	---	26.9	9.2	27.8	12.4
6	---	---	---	---	---	---	---	---	29.7	10.6	22.1	10.2
7	---	---	---	---	---	---	---	---	28.2	12.8	17.3	11.0
8	---	---	---	---	---	---	---	---	28.2	15.8	21.7	9.5
9	---	---	---	---	---	---	---	---	26.9	12.1	19.7	6.4
10	---	---	---	---	---	---	---	---	28.7	12.1	19.7	6.0
11	---	---	---	---	---	---	---	---	27.8	12.8	20.9	6.0
12	---	---	---	---	---	---	---	---	26.9	13.1	20.9	4.2
13	---	---	---	---	---	---	---	---	24.6	9.5	22.9	4.2
14	---	---	---	---	---	---	---	---	23.3	9.9	23.3	6.4
15	---	---	---	---	---	---	---	---	26.4	7.8	22.5	4.9
16	---	---	---	---	---	---	---	---	23.8	9.2	24.6	5.3
17	---	---	---	---	---	---	---	---	25.1	10.6	22.9	7.8
18	---	---	---	---	---	---	---	---	27.3	9.9	17.3	4.2
19	---	---	---	---	---	---	---	---	23.3	11.3	18.5	2.1
20	---	---	---	---	---	---	---	---	20.5	11.3	20.9	6.0
21	---	---	---	---	---	---	23.3	8.8	22.9	11.3	11.7	-1.0
22	---	---	---	---	---	---	24.2	6.7	23.8	11.7	14.3	-4.9
23	---	---	---	---	---	---	23.8	6.4	22.5	11.7	18.5	.4
24	---	---	---	---	---	---	24.6	7.8	21.7	11.7	14.3	.4
25	---	---	---	---	---	---	27.3	8.8	22.9	10.2	16.9	-3.5
26	---	---	---	---	---	---	27.8	11.0	26.9	9.5	17.7	4.6
27	---	---	---	---	---	---	28.7	12.4	25.1	12.1	19.7	6.4
28	---	---	---	---	---	---	31.6	10.6	24.2	10.6	16.9	7.4
29	---	---	---	---	---	---	29.7	11.7	26.0	10.6	12.4	1.8
30	---	---	---	---	---	---	26.9	13.1	26.9	11.7	11.3	1.1
31	---	---	---	---	---	---	25.1	10.2	28.2	10.2	---	---
MONTH	---	---	---	---	---	---	---	---	29.7	7.1	29.7	-4.9

380844107512200 PLEASANT VALLEY METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	.0	.0	.0	.0	.7	.0	.0	.0	.1	.0	.0
2	---	.0	.0	.0	.0	.4	.0	.4	.0	.1	.0	.0
3	---	.3	.0	.0	.0	.2	.0	.0	.0	.4	.0	.0
4	---	.1	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
5	---	.0	.2	.1	.0	.3	.0	.1	.0	.0	.0	.0
6	---	.0	.2	.1	.0	.8	.0	.0	.0	.0	.0	.2
7	---	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1
8	---	.2	.1	.0	.1	.0	.0	.3	.0	.0	.0	.2
9	---	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.2
10	---	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
11	---	.0	.0	.0	.0	.2	.0	.0	.0	.0	.1	.1
12	---	.3	.0	.2	.0	.0	.0	.3	.0	.0	.1	.0
13	---	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.1
14	---	.0	.0	.0	.1	.0	.0	.0	.0	.4	.0	.0
15	---	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16	---	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0
17	---	.0	.0	.0	.0	.0	.0	.4	.6	.0	.0	.0
18	---	.0	.0	.0	.0	.0	.0	.1	.0	.2	.0	.2
19	---	.2	.0	.0	.0	.1	.0	.0	.0	.0	.5	.0
20	---	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0
21	---	.1	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0
22	---	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0
23	---	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
24	---	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	---	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0
26	---	.1	.0	.0	.0	.4	.1	.1	.0	.0	.0	.0
27	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
28	.0	.0	.0	.1	.1	.2	.0	.1	.1	.0	.0	.0
29	.0	.0	.0	.0	---	.1	.0	.4	.2	.0	.0	.9
30	.0	.0	.1	.0	---	.0	.3	.0	.1	.0	.0	.0
31	.0	---	.0	.0	---	.0	---	.0	---	.0	.0	---
TOTAL	---	1.4	0.6	0.6	0.3	3.6	1.2	2.9	1.2	1.8	1.9	2.1

380916107452200 RIDGWAY METEOROLOGICAL STATION, AT RIDGWAY, CO--Continued

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.1	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0
2	.0	.0	.0	.0	.0	.3	.0	.5	.0	.1	.0	.0
3	.0	.4	.0	.0	.0	.1	.0	.0	.0	.4	.0	.0
4	.0	.1	.0	.2	.0	.0	.0	.0	.3	.1	.0	.0
5	.1	.0	.1	.1	.0	.3	.0	.1	.0	.0	.0	.1
6	.0	.0	.2	.1	.0	1.0	.0	.0	.0	.0	.0	.1
7	.0	.0	.0	.1	.0	.0	.0	.3	.0	.0	.0	.1
8	.0	.2	.1	.0	.1	.0	.0	.5	.0	.0	.0	.2
9	.0	.0	.0	.0	.1	.0	.7	.0	.0	.0	.1	.1
10	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	.3
11	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0
12	.0	.2	.0	.2	.0	.0	.0	.2	.0	.0	.2	.0
13	.0	.0	.1	.0	.0	.0	.0	.0	.0	.5	.0	.0
14	.0	.0	.0	.0	.1	.0	.0	.0	.1	.2	.3	.0
15	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
16	.0	.0	.0	.1	.0	.0	.0	.4	.0	.0	.0	.0
17	.2	.0	.0	.1	.0	.0	.0	.3	.5	.0	.0	.0
18	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.0	.3
19	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0
20	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0
21	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
23	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0
24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0
25	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0
26	.2	.1	.0	.0	.0	.3	.0	.1	.0	.0	.0	.1
27	.1	.1	.0	.3	.0	.0	.0	.2	.0	.0	.0	.0
28	.1	.0	.0	.1	.0	.1	.0	.1	.2	.0	.0	.0
29	.1	.0	.0	.0	---	.3	.0	.3	.6	.0	.0	.7
30	.0	.0	.2	.0	---	.0	.2	.2	.2	.1	.0	.1
31	.0	---	.0	.0	---	.0	---	.0	---	.0	.0	---
TOTAL	0.9	1.8	0.7	1.3	0.4	3.4	1.4	3.6	1.9	1.6	2.0	2.1

WTR YR 1995 TOTAL 21.1

381001107412300 DRY CREEK METEOROLOGICAL STATION NEAR RIDGWAY, CO

LOCATION.--Lat 38°10'01", long 107°41'23", in SE¹/4NE¹/4 sec.12, T.45 N, R.8 W., Ouray County, Hydrologic Unit 14020006, 3.7 mi east of Ridgway.

PERIOD OF RECORD.--October 26, 1994 to September 1995.

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 accumulated rainfall is good.

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	18.1	-2.1	14.6	-10.1	-2.4	-19.3	14.6	-4.6	4.2	-1.0
2	---	---	15.4	4.9	13.1	-7.1	.4	-12.5	12.8	-4.2	7.4	-1.0
3	---	---	8.8	-2.1	13.9	-8.3	2.8	-14.5	11.0	-6.8	7.8	-.7
4	---	---	4.6	-6.0	12.1	-2.4	6.0	-8.3	15.0	-7.9	5.7	-2.8
5	---	---	13.1	-6.4	2.8	-.7	1.8	-5.3	13.5	-7.9	7.8	-2.1
6	---	---	16.1	-2.4	4.9	-6.4	-.3	-8.6	13.9	-6.0	4.9	-13.7
7	---	---	18.1	2.5	7.1	-6.4	3.2	-6.8	13.1	-6.4	7.4	-18.3
8	---	---	8.5	-.7	-3.1	-17.4	7.1	-6.0	7.1	-2.4	12.4	-15.3
9	---	---	12.8	-5.3	-2.8	-21.6	9.5	-2.1	7.1	-4.9	16.5	-8.6
10	---	---	16.5	-3.5	.0	-20.2	9.2	-4.6	4.9	-4.2	15.8	-4.6
11	---	---	14.3	.7	2.5	-13.7	6.4	-2.1	2.5	-2.8	13.5	.7
12	---	---	7.4	-1.7	3.2	-13.3	6.7	-6.8	4.6	.0	5.7	-1.4
13	---	---	2.5	-6.0	6.4	-5.7	11.3	-6.8	7.8	-1.0	10.6	-3.1
14	---	---	.7	-12.5	2.1	-12.5	11.3	-1.0	6.4	-4.2	15.4	-4.6
15	---	---	8.8	-13.7	-1.4	-13.7	8.8	-1.0	6.0	-10.5	16.9	-2.1
16	---	---	10.6	-4.6	6.4	-14.5	-1.0	-8.6	8.5	-10.9	17.3	1.4
17	---	---	.4	-7.5	8.5	-11.7	-.7	-11.7	12.4	-8.6	12.8	.4
18	---	---	4.2	-5.3	13.9	-10.5	3.9	-19.7	8.5	-7.1	15.8	-1.0
19	---	---	.7	-6.4	4.9	-10.1	4.6	-16.2	12.1	-7.5	10.6	.4
20	---	---	4.6	-12.1	7.8	-11.7	1.4	-15.7	15.8	-6.0	14.6	-4.2
21	---	---	3.5	-5.3	11.3	-12.1	3.2	-11.3	18.1	-2.8	16.1	4.6
22	---	---	4.9	-14.5	13.1	-8.6	3.9	-16.2	14.6	-2.8	9.5	-3.1
23	---	---	6.7	-17.4	6.7	-3.8	4.9	-19.3	13.1	-4.6	14.3	-3.5
24	---	---	10.2	-11.7	11.3	-4.2	6.7	-11.3	16.1	-3.5	7.8	-3.5
25	---	---	8.5	-7.5	9.9	-5.7	10.2	-5.3	11.7	-2.4	-.7	-5.7
26	---	---	5.3	-8.6	9.9	-3.8	2.8	-2.4	7.4	-1.4	5.3	-9.8
27	17.7	-1.4	-2.1	-11.7	7.4	-7.9	1.1	-4.2	9.5	-3.1	7.1	-12.5
28	20.9	1.8	-4.9	-12.1	11.7	-10.1	2.1	-5.7	8.5	-.7	2.1	-5.3
29	18.5	-1.4	-2.1	-19.7	4.6	-7.1	2.8	-13.7	---	---	-.3	-7.9
30	9.2	-6.4	9.9	-13.3	4.9	-4.9	4.6	-15.7	---	---	3.9	-10.5
31	12.8	-8.3	---	---	1.4	-12.5	8.5	-7.9	---	---	5.7	-11.3
MONTH	---	---	18.1	-19.7	14.6	-21.6	11.3	-19.7	18.1	-10.9	17.3	-18.3
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	12.4	-7.5	14.3	-2.4	23.3	2.8	18.5	7.8	28.7	5.3	30.6	11.0
2	12.4	-3.5	9.9	.7	19.3	6.4	20.9	6.7	29.2	8.1	28.7	11.7
3	12.8	-2.8	9.5	-.3	20.1	2.1	15.4	3.5	26.9	9.9	30.1	9.9
4	16.5	-3.8	16.9	-1.7	14.3	6.0	15.4	4.6	28.7	10.6	30.6	11.0
5	16.9	1.1	13.5	2.5	23.8	3.5	24.2	3.2	29.2	9.5	29.7	9.9
6	15.8	1.4	9.5	-3.1	19.7	8.5	27.3	4.9	29.7	8.1	24.6	10.6
7	16.1	-1.0	8.1	.0	18.9	1.8	28.2	7.8	28.7	12.1	19.3	10.6
8	15.8	2.8	6.7	-.3	18.1	3.5	30.1	8.5	30.1	15.4	23.8	9.5
9	3.9	-4.9	11.3	1.4	16.9	1.1	29.7	12.4	26.9	12.8	21.7	7.1
10	2.8	-6.0	15.4	-1.4	19.3	3.9	28.7	12.1	29.7	12.4	20.1	6.0
11	7.1	-8.3	15.0	1.8	25.1	1.1	31.1	14.6	29.7	13.9	23.3	5.3
12	16.9	-4.2	10.2	2.5	27.8	4.6	27.8	12.8	26.4	13.1	22.9	2.8
13	17.3	2.1	10.6	.0	26.4	7.1	26.0	9.9	26.4	10.2	26.0	4.2
14	13.1	2.8	20.1	3.9	26.0	8.5	23.8	8.8	24.6	11.0	22.1	4.9
15	7.1	-.7	21.3	4.6	25.1	8.8	25.1	6.7	28.7	7.4	25.5	4.6
16	12.8	-4.9	16.5	2.5	21.7	8.8	26.9	8.5	26.4	8.5	25.5	5.3
17	7.4	-2.8	5.7	1.8	10.6	3.2	20.9	12.4	26.4	12.8	23.8	6.0
18	8.5	-1.4	14.6	2.8	20.5	.0	20.9	9.5	28.7	7.8	18.1	.2
19	6.4	-1.7	17.3	1.4	22.5	3.9	24.6	11.0	24.2	12.1	20.1	2.1
20	4.2	-3.5	18.5	4.2	23.3	4.6	24.6	8.8	22.9	11.3	20.1	5.7
21	6.4	-7.5	21.7	3.5	22.5	5.7	24.6	8.5	26.0	11.3	12.8	.0
22	5.3	-4.2	20.5	.4	22.9	3.9	26.0	6.0	25.1	11.7	16.1	-5.7
23	3.9	-3.1	15.4	4.6	22.1	2.5	26.0	6.0	22.9	12.1	19.7	-.7
24	8.8	-6.0	15.4	2.1	22.9	4.2	26.0	7.8	23.8	11.7	13.5	1.1
25	13.9	-2.4	12.8	3.2	23.8	4.9	29.7	8.5	26.9	9.9	18.5	-4.2
26	12.4	.4	12.4	1.4	25.1	4.2	29.7	7.8	28.7	2.0	20.1	2.8
27	16.5	-1.0	12.1	.7	24.2	5.7	30.6	10.2	26.4	11.7	20.9	8.5
28	15.8	6.7	11.3	-1.7	22.1	9.2	32.1	9.2	25.1	10.2	18.9	7.8
29	17.3	2.8	10.6	3.2	18.9	9.2	30.6	9.9	27.3	10.2	13.1	1.1
30	12.8	1.8	9.2	2.5	16.9	8.5	28.7	14.3	29.2	10.2	13.9	1.4
31	---	---	18.9	2.5	---	---	27.8	11.7	32.1	10.2	---	---
MONTH	17.3	-8.3	21.7	-3.1	27.8	.0	32.1	3.2	32.1	2.0	30.6	-5.7

381001107412300 DRY CREEK METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0
2	---	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0
3	---	.5	.0	.0	.0	.1	.0	.1	.0	.4	.0	.0
4	---	.1	.0	.0	.0	.0	.0	.0	.7	.0	.1	.0
5	---	.0	.1	.2	.0	.2	.0	.1	.0	.0	.0	.1
6	---	.0	.2	.2	.0	1.3	.0	.0	.0	.0	.0	.2
7	---	.0	.0	.1	.0	.1	.0	.2	.0	.0	.1	.7
8	---	.2	.1	.0	.1	.1	.0	.8	.1	.0	.0	.2
9	---	.0	.0	.0	.1	.0	.7	.0	.0	.0	.0	.1
10	---	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.2
11	---	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
12	---	.2	.0	.3	.0	.0	.0	.2	.0	.0	.1	.0
13	---	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0
14	---	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0
15	---	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
16	---	.0	.0	.1	.0	.4	.0	.1	.0	.0	.0	.0
17	---	.1	.0	.3	.0	.0	.0	.4	.6	.0	.0	.0
18	---	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.4
19	---	.5	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0
20	---	.2	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0
21	---	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22	---	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23	---	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
24	---	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	---	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0
26	.1	.1	.0	.1	.1	.3	.1	.0	.0	.0	.0	.0
27	.1	.1	.0	.4	.0	.0	.0	.2	.0	.0	.2	.0
28	.0	.0	.0	.1	.1	.1	.0	.0	.1	.0	.0	.0
29	.0	.0	.0	.1	---	.5	.0	.2	1.0	.1	.0	.6
30	.0	.0	.1	.0	---	.0	.3	.2	.2	.0	.0	.1
31	.0	---	.0	.0	---	.0	---	.0	---	.0	.0	---
TOTAL	---	2.3	0.5	1.9	0.5	4.3	1.5	3.1	2.7	1.2	1.2	2.6

381422107453000 RIDGWAY RESERVOIR METEOROLOGICAL STATION, NEAR RIDGWAY, CO--Continued

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0
2	.0	.0	.0	.0	.0	.2	.0	.8	.0	.0	.0	.0
3	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.5	.0	.0
4	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.1	.0
5	.0	.0	.0	.2	.0	.8	.0	.2	.0	.0	.0	.4
6	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.5
7	.0	.0	.0	.1	.0	.7	.0	.0	.0	.0	.0	.0
8	.0	.0	.0	.0	.1	.0	.0	.5	.0	.0	.0	.0
9	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
10	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0
11	.0	.0	.0	.0	.0	.1	.0	.7	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
13	.0	.0	.1	.0	.0	.0	.0	.0	.0	.4	.0	.2
14	.0	.0	.1	.0	.3	.0	.0	.0	.0	.2	.0	.0
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.1	.0
17	.4	.4	.0	.0	.0	.0	.0	.3	.5	.0	.0	.0
18	.2	.2	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0
19	.2	.2	.0	.0	.0	.9	.0	.0	.0	.0	.1	.0
20	.2	.2	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0
23	.0	.0	.0	.0	.0	.4	.5	.0	.0	.0	.3	.0
24	.0	.0	.0	.0	.0	.0	.5	.3	.0	.0	.6	.0
25	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0
26	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0
28	.0	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	.7
29	.0	.0	.0	.0	---	.0	1.0	.1	.1	.0	.0	.8
30	.1	.1	.0	.0	---	.0	.3	.3	.2	.0	.0	.1
31	.0	---	.0	.0	---	.0	---	.0	---	.0	.0	---
TOTAL	1.3	1.3	0.2	0.5	0.6	5.7	2.8	5.8	0.9	1.4	1.5	2.7

WTR YR 1995 TOTAL 24.7

COLORADO RIVER TOTAL DISSOLVED SOLIDS INVESTIGATION

A series of water-quality samples and discharge measurements were collected from June 30, 1994 to September 1995, to study Total Dissolved Solids (TDS), in the Grand Valley. The study reach is 62.0 mi in length, and extends from the gaging station, 09095500 Colorado River near Cameo, CO to gaging station, 09163500 Colorado River near Colorado-Utah State line. Samples for (TDS) collected at gaging stations 0905500 Colorado River near Cameo, 09106150 Colorado River below Grand Valley Diversion near Palisade, CO, and 09163500 Colorado River near Colorado-Utah State line, are published elsewhere in this report. The study was discontinued September 1995.

390622108205400 COLORADO RIVER AT PALISADE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°06'22", long 108°20'54", in NW¹/4NW¹/4 sec.10, T.11 S., R.2 E., Mesa County, Hydrologic Unit 14010005, at state highway 6 bridge 0.25 mi east of Palisade, CO.

DRAINAGE AREA.--8,740 mi².

PERIOD OF RECORD.--June 1994 to April 1995. (Discontinued).

REMARKS.--No previous water-quality data at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT										
04...	1115	774	1020	13.5	260	70	20	100	3	3.7
12...	1315	726	1010	12.5	--	--	--	--	--	--
19...	1230	716	1050	9.5	--	--	--	--	--	--
25...	0945	542	1050	7.5	--	--	--	--	--	--
NOV										
02...	1415	483	1110	7.5	--	--	--	--	--	--
09...	1520	1300	1220	8.5	270	76	20	130	3	4.0
DEC										
20...	1400	555	1270	1.0	290	80	23	140	4	4.4
JAN										
10...	1050	746	1190	0.5	260	71	20	130	4	4.5
FEB										
15...	1700	800	1240	3.5	240	66	18	140	4	4.6
MAR										
16...	1630	1720	1060	0.0	260	71	19	130	4	3.9
APR										
19...	1425	854	856	13.0	210	58	17	82	2	3.4

DATE	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)
OCT										
04...	176	130	140	0.4	13	589	583	0.80	1230	<1
12...	--	--	--	--	--	574	--	--	--	--
19...	--	--	--	--	--	586	--	--	--	--
25...	--	--	--	--	--	594	--	--	--	--
NOV										
02...	--	--	--	--	--	638	--	--	--	--
09...	167	150	180	0.3	8.0	702	668	0.95	2460	<1
DEC										
20...	186	160	180	0.3	11	739	710	1.01	1110	1
JAN										
10...	175	140	170	0.3	9.2	690	650	0.94	1390	1
FEB										
15...	178	180	170	0.4	9.4	740	695	1.01	1600	1
MAR										
16...	168	150	180	0.3	11	682	666	0.93	3170	1
APR										
19...	167	100	94	0.3	11	479	466	0.65	1100	1

COLORADO RIVER TOTAL DISSOLVED SOLIDS INVESTIGATION--Continued

390318108273200 COLORADO RIVER AT 32 ROAD NEAR CLIFTON, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°03'18", long 108°27'32", in NE¹/4SE¹/4 sec.22, T.1 S., R.1 E., Mesa County, Hydrologic Unit 14010005, at road 32 bridge 2.0 mi south of Clifton

DRAINAGE AREA.--8,790 mi².

PERIOD OF RECORD.--June 1994 to April 1995. (Discontinued).

REMARKS.--No previous water-quality data at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT										
04...	1530	1000	1090	16.5	290	81	21	110	3	3.5
13...	1130	870	1140	13.0	--	--	--	--	--	--
18...	1105	949	1190	10.0	--	--	--	--	--	--
24...	1305	936	1180	10.5	--	--	--	--	--	--
NOV										
03...	1000	746	1300	7.5	--	--	--	--	--	--
08...	1010	1370	1250	7.5	300	81	23	130	3	3.8
DEC										
22...	0945	1110	1330	0.0	300	84	23	150	4	4.6
JAN										
11...	1600	1540	1230	3.0	270	74	20	130	3	4.2
FEB										
14...	1335	1490	1230	5.5	230	65	16	150	4	4.1
MAR										
14...	1435	1640	1220	7.5	280	76	21	130	3	4.0
APR										
18...	1325	1180	949	11.0	230	64	17	93	3	2.8

DATE	ALKA- LINIT LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)
OCT										
04...	159	170	150	0.4	10	688	641	0.94	1860	1
13...	--	--	--	--	--	674	--	--	--	--
18...	--	--	--	--	--	672	--	--	--	--
24...	--	--	--	--	--	696	--	--	--	--
NOV										
03...	--	--	--	--	--	764	--	--	--	--
08...	175	180	180	0.3	9.1	734	712	1.0	2720	1
DEC										
22...	178	180	200	0.3	9.9	775	759	1.05	2320	1
JAN										
11...	164	160	190	0.3	7.6	711	684	0.97	2960	1
FEB										
14...	161	160	180	0.4	8.0	716	680	0.97	2880	2
MAR										
14...	171	160	160	0.3	11	726	665	0.99	3210	2
APR										
18...	142	130	120	0.3	8.7	540	521	0.73	1720	1

COLORADO RIVER TOTAL DISSOLVED SOLIDS INVESTIGATION--Continued

09106500 COLORADO RIVER AT GRAND JUNCTION, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°02'46", long 108°34'03", in NE¹/4SW¹/4 sec.23, T.1 S., R.1 W., Mesa County, Hydrologic Unit 14010005, at state highway 50 bridge 25 mi upstream from confluence with the Gunnison River.

DRAINAGE AREA.--8,855 mi².

PERIOD OF RECORD.--July 1994 to September 1995. (Discontinued).

REMARKS.--No previous water-quality data at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT											
03...	1355	1110	1200	--	14.0	330	91	24	130	3	4.2
14...	1245	987	1230	--	13.0	--	--	--	--	--	--
18...	0955	1070	1260	--	9.5	--	--	--	--	--	--
25...	1250	925	1250	--	10.5	--	--	--	--	--	--
NOV											
04...	1315	880	1380	--	8.0	--	--	--	--	--	--
10...	1045	1700	1260	--	7.5	300	84	23	130	3	3.8
DEC											
20...	1030	1740	1360	--	1.0	320	87	24	150	4	4.5
JAN											
11...	0945	1510	1270	--	2.0	280	77	21	130	3	4.1
FEB											
14...	0920	1390	1270	--	4.5	280	76	22	140	4	4.4
MAR											
14...	1010	1350	1270	--	8.5	290	78	22	140	4	4.1
APR											
17...	1030	1090	1040	--	11.5	260	73	19	96	3	3.4
MAY											
10...	0945	2210	811	--	11.5	220	59	18	75	2	3.1
JUN											
07...	1130	18900	317	--	13.5	120	35	8.3	16	0.6	1.4
JUL											
21...	1305	14400	306	8.2	15.0	100	31	6.5	20	0.9	1.2
AUG											
07...	1330	5290	489	8.2	20.5	150	43	9.3	38	1	1.7
SEP											
07...	0945	1660	944	8.2	19.5	260	74	19	86	2	2.9

DATE	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)
OCT										
03...	162	210	170	0.4	10	758	737	1.03	2270	1
14...	--	--	--	--	--	730	--	--	--	--
18...	--	--	--	--	--	734	--	--	--	--
25...	--	--	--	--	--	728	--	--	--	--
NOV										
04...	--	--	--	--	--	830	--	--	--	--
10...	162	190	180	0.3	7.8	746	716	1.01	3420	1
DEC										
20...	179	190	200	0.3	10	796	773	1.08	3740	2
JAN										
11...	166	170	180	0.3	7.5	734	689	1.0	2990	1
FEB										
14...	170	180	180	0.4	9.2	744	714	1.01	2790	1
MAR										
14...	169	170	180	0.3	11	732	707	1.0	2670	1
APR										
17...	147	160	130	0.3	8.2	599	578	0.81	1760	2
MAY										
10...	153	120	79	0.3	9.7	--	456	0.62	2720	2
JUN										
07...	100	36	14	0.2	9.3	--	180	0.25	9210	<1
JUL										
21...	74	38	20	0.3	7.1	--	168	0.23	6550	<1
AUG										
07...	92	72	49	0.2	7.1	--	275	0.37	3930	<2
SEP										
07...	145	150	110	0.3	8.6	--	538	0.73	2410	1

COLORADO RIVER TOTAL DISSOLVED SOLIDS INVESTIGATION--Continued

390521108373300 COLORADO RIVER AT REDLANDS PARKWAY NR GRAND JUNCTION, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°05'21", long 108°37'33", in NE¹/4SW¹/4 sec.15, T.1 S., R.1 W., Mesa County, Hydrologic Unit 14010005, at Redlands Parkway bridge, 1.0 mi west of Grand Junction, 1.25 mi downstream from confluence with the Gunnison River.

DRAINAGE AREA.--16,886 mi².

PERIOD OF RECORD.--July 1994 to September 1995. (Discontinued).

REMARKS.--No previous water-quality data at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 05...	1330	3340	1180	--	14.5	410	110	34	89	2	4.0
NOV 07...	1200	2490	1290	--	7.5	420	110	36	110	2	3.9
DEC 19...	1415	2800	1180	--	1.0	340	90	29	110	3	4.0
JAN 09...	1110	2880	1190	--	2.0	310	83	26	110	3	3.9
FEB 13...	0920	2730	1200	--	3.5	320	82	27	120	3	4.0
MAR 14...	1100	3630	970	--	8.0	270	72	23	87	2	3.2
APR 17...	1145	4240	702	--	11.0	220	61	17	49	1	2.6
MAY 10...	1510	9480	--	8.2	11.5	180	50	14	32	1	2.3
JUN 08...	1100	32500	319	8.1	12.0	120	35	8.8	15	0.6	1.4
JUL 19...	1050	26000	322	7.9	18.0	120	35	8.2	18	0.7	1.4
AUG 09...	0930	9230	546	8.3	19.5	180	51	13	34	1	1.9
SEP 08...	1330	4060	1010	8.3	23.0	370	100	30	68	2	3.3

DATE	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)
OCT 05...	171	330	65	0.5	13	800	748	1.09	7220	4
NOV 07...	170	340	93	0.4	11	856	806	1.16	5750	4
DEC 19...	166	250	120	0.3	11	743	714	1.01	5620	3
JAN 09...	163	230	130	0.3	9.7	734	691	1.0	5700	4
FEB 13...	160	230	140	0.3	9.5	742	709	1.01	5470	3
MAR 14...	146	200	90	0.3	12	603	575	0.82	5910	3
APR 17...	122	150	42	0.3	11	428	406	0.58	4900	2
MAY 10...	115	110	20	0.2	11	--	308	0.42	7900	2
JUN 08...	93	48	10	0.2	10	--	184	0.25	16200	<1
JUL 19...	77	56	13	0.3	9.3	--	187	0.25	13200	<1
AUG 09...	100	120	32	0.2	9.2	--	321	0.44	8010	1
SEP 08...	157	290	48	0.4	13	--	647	0.88	7090	4

COLORADO RIVER TOTAL DISSOLVED SOLIDS INVESTIGATION--Continued

0915300 COLORADO RIVER NEAR FRUITA, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°08'58", long 108°44'20", in NE¹/4SW¹/4 sec.23, T.1 N., R.2 W., Mesa County, Hydrologic Unit 14010005, at state highway 340 bridge, 1.2 mi south of Fruita.

DRAINAGE AREA.--17,046 mi².

PERIOD OF RECORD.--July 1994 to September 1995. (Discontinued).

REMARKS.--No previous water-quality data at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 03...	1520	3300	1300	--	14.5	450	120	36	100	2	5.0
NOV 07...	1645	2950	1340	--	8.0	430	110	38	110	2	4.0
DEC 19...	1250	3020	1190	--	0.5	360	93	30	110	3	4.1
JAN 09...	1630	2900	1170	--	2.5	320	84	27	100	2	3.7
FEB 13...	1350	2770	1190	--	4.5	330	85	29	110	3	4.1
MAR 15...	1500	4000	939	--	10.5	260	69	22	79	2	3.1
APR 18...	0900	4810	709	--	8.5	220	60	18	49	1	2.7
MAY 12...	1150	10600	553	--	10.5	190	51	15	37	1	2.3
JUN 09...	1100	E31600	321	8.1	11.5	120	35	8.9	15	0.6	1.4
JUL 18...	1120	E30600	313	8.1	16.5	120	34	8.0	17	0.7	1.4
AUG 09...	1300	E8840	570	8.1	21.0	190	53	14	38	1	2.0
SEP 08...	0915	E4220	1150	8.2	19.0	410	110	33	82	2	3.5

DATE	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)
OCT 03...	176	370	80	0.5	14	882	831	1.20	7860	5
NOV 07...	173	360	98	0.4	11	898	835	1.22	7150	5
DEC 19...	169	260	120	0.3	11	754	730	1.03	6150	5
JAN 09...	161	250	110	0.3	9.7	732	681	1.0	5730	3
FEB 13...	159	250	120	0.3	9.8	748	704	1.02	5590	3
MAR 15...	143	190	79	0.3	12	582	540	0.79	6290	3
APR 18...	123	150	40	0.3	11	429	405	0.58	5570	3
MAY 12...	116	110	27	0.2	10	--	322	0.44	9220	2
JUN 09...	90	51	9.6	0.2	10	--	185	0.25	--	<1
JUL 18...	76	56	12	0.3	9.6	--	184	0.25	--	<1
AUG 09...	102	120	36	0.2	8.9	--	333	0.45	--	<1
SEP 08...	167	340	60	0.4	12	--	741	1.01	--	4

UPPER GUNNISON RIVER WATER-QUALITY STUDY

A series of water-quality samples and discharge measurements were collected from April 15 to September 30, 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 mi² 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 SW¹/4NE¹/4 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 to September 1995.

REMARKS.--No previous water-quality data at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
JUN 14...	1510	361	76	7.9	6.0	--	--	K1	35	12	1.2	0.9
JUL 11...	1045	356	73	8.2	6.5	14	9.2	<1	32	11	1.0	0.7
AUG 17...	0930	88	76	7.2	6.0	0.2	6.8	K3	31	11	0.9	0.6
SEP 19...	1035	19	98	7.6	7.0	0.1	8.4	<1	45	16	1.3	0.9

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
JUN 14...	0.1	0.3	27	9.2	0.2	<0.1	4.6	51	45	0.07	49.7
JUL 11...	0.0	0.3	23	9.7	0.1	0.1	4.0	42	41	0.06	40.4
AUG 17...	0.0	0.3	22	11	0.1	<0.1	3.6	40	41	0.05	9.46
SEP 19...	0.1	0.4	30	17	<0.1	<0.1	3.9	59	58	0.08	2.98

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
JUN 14...	<0.01	0.12	0.02	<0.2	<0.2	0.03	<0.01	<0.01
JUL 11...	<0.01	0.11	<0.02	<0.2	<0.2	0.06	<0.01	<0.01
AUG 17...	<0.01	0.10	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01
SEP 19...	<0.01	0.08	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01

UPPER GUNNISON RIVER WATER-QUALITY STUDY

385429107013000 SLATE RIVER ABOVE OH-BE-JOYFUL CREEK, NEAR CRESTED BUTTE, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	CADMIUM DIS- SOLVED (UG/L AS CD)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)
JUN 14...	--	--	--	--	30	--	--	2	--
JUL 11...	40	<1	<1	1900	23	<1	70	2	<10
AUG 17...	<10	<1	<1	40	10	<1	20	1	<10
SEP 19...	--	--	--	--	12	--	--	1	--

K-Based on non-ideal colony count.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
JUN 11...	1045	356	65	62	AUG 17...	0930	88	2	0.47

UPPER GUNNISON RIVER WATER-QUALITY STUDY

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 SW1/4NE1/4 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 to September 1995.

REMARKS.--No previous water-quality data at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
AUG 17...	1215	51	47	7.2	8.5	0.20	6.3	K2	18	6.3
SEP 19...	0915	11	61	7.9	5.0	0.20	9.0	K2	26	9.2

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
AUG 17...	0.5	0.6	0.1	0.2	16	4.7	<0.1	<0.1	3.0	23
SEP 19...	0.8	0.8	0.1	0.2	22	7.4	<0.1	<0.1	2.9	36

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
AUG 17...	<0.01	<0.05	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01
SEP 19...	<0.01	<0.05	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	CADMIUM DIS- SOLVED (UG/L AS CD)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)
AUG 17...	30	<1	2	40	15	6	40	19	60
SEP 19...	60	1	3	50	16	8	40	34	140

K-Based on non-ideal colony count.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
AUG 17.	1215	50	1	0.14

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 SE¹/4NE¹/4 sec.35, T.13 S., R.86 W., Gunnison County, Hydrologic Unit 14020001, 0.5 mi upstream from confluence with Coal Creek, and 0.6 mi northwest of Crested Butte.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--April to September 1995.

REMARKS.--No previous water-quality data at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
APR 18...	1010	51	158	7.6	0.0	--	9.3	<1	67	22	3.0	3.6
JUN 14...	1325	646	74	7.7	9.0	--	8.3	K2	36	12	1.4	1.0
JUL 11...	1425	644	67	7.5	10.5	8.3	8.0	<1	28	9.4	1.0	0.8
AUG 16...	1430	146	72	7.1	9.5	0.4	7.9	K2	29	10	1.0	0.8
SEP 18...	1545	40	101	7.0	9.5	0.2	7.6	K6	44	15	1.7	1.3

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
APR 18...	0.2	0.6	51	24	0.7	<0.1	5.8	98	91	0.13	13.5
JUN 14...	0.1	0.3	27	8.9	0.5	<0.1	4.6	46	45	0.06	80.2
JUL 11...	0.1	0.4	22	8.9	0.1	0.1	3.7	40	38	0.05	69.6
AUG 16...	0.1	0.3	23	9.6	<0.1	<0.1	3.7	38	36	0.05	14.2
SEP 18...	0.1	0.4	32	14	<0.1	<0.1	4.0	57	52	0.07	5.6

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
APR 18...	<0.01	0.11	0.02	<0.2	<0.2	0.01	<0.01	<0.01
JUN 14...	<0.01	0.10	0.02	0.2	<0.2	<0.01	0.01	<0.01
JUL 11...	<0.01	0.09	<0.02	<0.2	<0.2	0.02	<0.01	0.01
AUG 16...	<0.01	0.07	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01
SEP 18...	<0.01	0.07	<0.02	<0.2	<0.2	0.03	<0.01	0.02

UPPER GUNNISON RIVER WATER QUALITY STUDY

385240106583600 SLATE RIVER ABOVE COAL CREEK, NEAR CRESTED BUTTE, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	CADMIUM DIS- SOLVED (UG/L AS CD)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 18...	--	--	--	--	69	--	--	39	--
JUN 14...	--	--	--	--	34	--	--	6	--
JUL 11...	60	<1	2	730	35	1	30	8	20
AUG 16...	10	<1	<1	120	38	1	30	12	20
SEP 18...	--	--	--	--	35	--	--	12	--

K-Based on non-ideal colony count.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
JUN 14...	1325	646	27	47	AUG 16...	1430	146	5	2.0
JUL 11...	1425	644	26	45					

UPPER GUNNISON RIVER WATER-QUALITY STUDY

384852106541500 SLATE RIVER ABOVE EAST RIVER NEAR CRESTED BUTTE, CO
WATER-QUALITY RECORDS

LOCATION.--Lat 38 48'52", long 106 54'15", in NW¹/4NW¹/4 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 to September 1995.

REMARKS.--No previous water-quality data at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
APR 19...	1110	108	186	7.8	2.5	--	10.1	2.4	<1	79	25	4.0
JUN 20...	0915	1260	71	7.8	4.0	12	9.0	--	K12	30	9.7	1.5
JUL 12...	1055	1040	65	8.0	7.0	6.9	10	0.5	K6	27	8.9	1.2
AUG 09...	1150	310	80	7.8	8.5	1.7	8.0	1.6	15	30	10	1.2
SEP 20...	0845	76	183	8.0	8.0	--	8.8	1.5	420	79	26	3.5

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
APR 19...	4.6	0.2	0.7	60	25	2.0	0.2	6.7	113	105	0.15
JUN 20...	1.7	0.1	0.4	26	7.3	0.3	<0.1	5.3	53	42	0.07
JUL 12...	1.3	0.1	0.3	23	7.7	0.2	0.1	4.5	43	38	0.06
AUG 09...	1.5	0.1	0.3	26	8.9	0.2	<0.1	4.0	44	42	0.06
SEP 20...	3.8	0.2	0.7	63	24	0.9	0.2	6.4	102	104	0.14

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
APR 19...	33.0	<0.01	0.22	0.02	<0.2	<0.2	0.01	<0.01	<0.01	54	70
JUN 20...	180	<0.01	0.07	0.02	<0.2	<0.2	0.01	<0.01	<0.01	69	14
JUL 12...	121	<0.01	0.05	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01	55	14
AUG 09...	36.8	<0.01	0.06	<0.02	<0.2	<0.2	0.02	<0.01	<0.01	41	23
SEP 20...	20.8	<0.01	0.11	<0.02	<0.2	<0.2	<0.01	0.01	<0.01	26	15

K-Based on non-ideal colony count.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
JUN 20...	0915	1260	75	255	AUG 09...	1150	310	7	5.9
JUL 12...	1055	1040	20	56					

UPPER GUNNISON RIVER WATER-QUALITY STUDY

EAST RIVER DRAINAGE

385609106575800 EAST RIVER BELOW GOTHIC, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°56'09", long 106°57'58", in SE¹/4SE¹/4 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 to September 1995.

REMARKS.--No previous water-quality data at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
APR 18...	1025	7.9	319	7.6	0.0	8.6	<1	160	53	7.3	1.9
JUN 14...	1750	687	147	7.8	2.5	--	K4	69	23	2.9	0.7
JUL 10...	1400	348	157	8.2	8.0	8.8	<1	76	25	3.3	0.6
AUG 17...	1610	100	181	8.0	11.0	5.8	<1	88	29	3.8	0.7
SEP 18...	1345	49	233	7.3	9.5	8.1	K10	110	37	4.9	1.0

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
APR 18...	0.1	0.6	121	46	0.5	<0.1	5.2	196	188	0.27	4.18
JUN 14...	0.0	0.4	66	11	0.2	<0.1	3.4	86	82	0.12	160
JUL 10...	0.0	0.4	65	13	0.2	0.1	3.7	89	86	0.12	80.8
AUG 17...	0.0	0.5	67	23	0.3	<0.1	3.8	103	101	0.14	27.8
SEP 18...	0.0	0.5	81	34	0.1	<0.1	3.9	136	130	0.18	18.1

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
APR 18...	<0.01	0.11	0.020	--	<0.2	<0.2	<0.01	<0.01	<0.01	24	8
JUN 14...	<0.01	0.11	0.020	0.28	0.3	<0.2	0.08	<0.01	<0.01	43	5
JUL 10...	<0.01	0.11	0.020	--	<0.2	<0.2	0.02	0.02	0.02	18	2
AUG 17...	<0.01	<0.05	0.020	--	<0.2	<0.2	<0.01	<0.01	<0.01	13	5
SEP 18...	<0.01	<0.05	<0.015	--	<0.2	<0.2	<0.01	<0.01	<0.01	17	6

K-Based on non-ideal colony count.

UPPER GUNNISON RIVER WATER-QUALITY STUDY

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 to September 1995.

REMARKS.--No previous water-quality data at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	
APR 18...	1050	38	329	8.2	1.5	9.5	<1	170	54	7.7	2.6	
JUN 15...	1015	1350	168	7.9	5.0	8.9	200	90	29	4.3	1.0	
AUG 18...	1045	129	180	7.8	8.5	6.1	K10	91	30	3.9	0.9	
DATE		SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
APR 18...	0.1	0.7	135	38	0.4	<0.1	5.5	202	190	0.27	20.8	
JUN 15...	0.0	0.6	80	9.5	0.6	<0.1	4.4	100	98	0.14	365	
AUG 18...	0.0	0.4	73	21	0.2	0.1	3.8	106	104	0.14	36.2	
DATE		NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
APR 18...	<0.01	0.07	<0.02	--	<0.2	<0.2	<0.01	<0.01	<0.01		29	11
JUN 15...	<0.01	0.11	0.02	0.38	0.4	<0.2	0.07	0.01	<0.01		36	6
AUG 18...	<0.01	0.07	<0.02	--	<0.2	<0.2	<0.01	<0.01	<0.01		18	7

K-Based on non-ideal colony count.

UPPER GUNNISON RIVER WATER-QUALITY STUDY

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 to September 1995.

REMARKS.--No previous water-quality data at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
APR 19...	1010	44	325	8.3	2.0	--	10.7	2.6	<1	170	53	8.0
JUL 12...	0845	1130	163	8.3	6.0	13	9.4	0.9	K13	80	26	3.7
AUG 09...	0835	376	186	8.2	7.5	1.8	8.8	1.2	35	89	29	4.1
SEP 20...	1045	63	314	8.4	7.5	0.2	8.8	0.8	K21	160	51	7.6

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
APR 19...	2.2	0.1	0.7	135	38	0.4	<0.1	5.8	199	189	0.27
JUL 12...	0.8	0.0	0.5	72	11	0.2	0.1	3.9	94	90	0.13
AUG 09...	0.9	0.0	0.5	72	20	<0.1	<0.1	3.7	105	98	0.13
SEP 20...	1.6	0.1	0.9	123	40	0.2	<0.1	5.5	184	181	0.25

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
APR 19...	23.7	<0.01	0.06	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01	24	6
JUL 12...	287	<0.01	0.07	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01	33	6
AUG 09...	99.5	<0.01	0.05	<0.02	<0.2	<0.2	0.01	<0.01	<0.01	15	7
SEP 20...	31.2	<0.01	<0.05	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01	<3	3

K-Based on non-ideal colony count.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
JUL 12...	0845	1130	86	262	AUG 09...	0835	376	14	14

UPPER GUNNISON RIVER WATER-QUALITY STUDY

384832106525900 CEMENT CREEK NEAR CRESTED BUTTE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°48'32", long 106°52'59", in NW¹/4SE¹/4 sec.27, T.14 S., R.85 W, Gunnison County, Hydrologic Unit 14020001, 0.5 mi upstream from confluence with East River, and 6.8 mi southeast of Crested Butte.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--September 1995.

REMARKS.--No previous water-quality data at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
SEP 19...	1430	33	375	8.2	11.0	8.0	<1	190	53	13	5.7

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
SEP 19...	0.2	1.1	163	39	1.5	0.1	6.7	216	218	0.29	19.3

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
SEP 19...	<0.01	0.05	<0.015	<0.2	<0.2	<0.01	<0.01	<0.01	5	5

UPPER GUNNISON RIVER WATER-QUALITY STUDY

384257106510300 EAST RIVER AT ROARING JUDY FISH HATCHERY, NEAR ALMONT, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°42'57", long 106°51'03", in SE¹/4NE¹/4 sec.26, T.15 S., R.85 W, Gunnison County, Hydrologic Unit 14020001, at Roaring Judy Fish Hatchery Road bridge, 3.6 mi north of Almont, and 3.7 mi above mouth.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--September 1995.

REMARKS.--No previous water-quality data at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
SEP 21...	0820	175	282	8.4	7.0	9.1	K18	140	43	7.2	3.3

DATE	TIME	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
SEP 21...	0.1	0.8	113	31	0.8	0.1	6.4	163	161	0.22	77.1	

DATE	TIME	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
SEP 21...	<0.01	0.09	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01	7	5	

K-Based on non-ideal colony count.

GUNNISON RIVER BASIN

UPPER GUNNISON RIVER WATER-QUALITY STUDY

UPPER GUNNISON RIVER DRAINAGE

383838106515400 GUNNISON RIVER BELOW ALMONT, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38 38'38", long 106 51'54", IN NE¹/4NW¹/4 sec. 33, T.51 N., R.1 E., Gunnison County, Hydrologic Unit 14020002, 1.9 mi downstream from confluence of East River and Taylor River, and 2.0 mi south of Almont, CO.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--April to September 1995.

REMARKS.--No previous water-quality data at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
APR 19...	0905	505	177	8.0	2.5	--	10.4	2.2	<1	83	25	5.0
JUN 20...	1215	5060	152	8.1	8.0	21	8.9	--	K35	75	23	4.2
JUL 13...	1140	4860	132	8.0	9.0	6.9	8.6	0.9	K14	61	19	3.4
AUG 10...	1325	1490	154	8.3	12.5	1.5	7.8	3.2	K27	74	23	4.1
SEP 21...	1030	779	152	7.5	9.0	0.50	8.2	1.6	K10	73	22	4.5

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
APR 19...	2.9	0.1	0.7	79	15	0.8	0.2	7.5	110	105	0.15	150
JUN 20...	1.6	0.1	0.6	69	7.9	0.5	<0.1	6.3	95	86	0.13	1300
JUL 13...	1.4	0.1	0.5	59	7.6	0.3	<0.1	5.8	78	73	0.11	1020
AUG 10...	1.7	0.1	0.5	66	11	0.4	<0.1	6.1	86	86	0.12	346
SEP 21...	2.0	0.1	0.6	65	11	0.3	<0.1	6.5	84	86	0.11	177

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
APR 19...	<0.01	0.08	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01
JUN 20...	<0.01	0.06	0.02	<0.2	<0.2	0.08	0.01	<0.01
JUL 13...	<0.01	<0.05	0.02	<0.2	<0.2	<0.01	<0.01	<0.01
AUG 10...	<0.01	<0.05	<0.02	<0.2	<0.2	0.01	<0.01	<0.01
SEP 21...	<0.01	0.06	<0.02	<0.2	<0.2	<0.01	<0.01	0.01

GUNNISON RIVER BASIN

UPPER GUNNISON RIVER WATER-QUALITY STUDY

383838106515400 GUNNISON RIVER BELOW ALMONT, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	CADMIUM DIS- SOLVED (UG/L AS CD)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 19...	--	--	--	--	33	--	--	6	--
JUN 20...	60	--	--	1300	110	<1	90	8	<10
JUL 13...	30	<1	<1	560	55	<1	50	8	<10
AUG 10...	<10	<1	<1	160	21	<1	<10	6	<10
SEP 21...	<10	<1	<1	90	29	<1	<10	3	<10

K-Based on non-ideal colony count.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
JUN 20...	1215	5060	86	1170	AUG 10...	1325	1490	6	24
JUL 13...	1140	4860	56	735					

UPPER COLORADO RIVER BASIN NUTRIENT AND MAJOR ION RECONNAISSANCE SAMPLING
(National Water Quality Assessment Program)

The Upper Colorado River Basin National Water Quality Assessment Study Unit conducted a major ion and nutrient reconnaissance sampling survey in the early spring. Data were collected at both continuing record water-quality stations and at the sites listed here. The reconnaissance data for continuing record stations: 09022000, Fraser River Upper Station near Winter Park; 09025010, Fraser River below Vasquez Creek at Winter Park; 09027100, Fraser River at Tabernash; 09067005, Eagle River at Avon; 09069000, Eagle River at Gypsum; 09111500, Slate River near Crested Butte; 09112200, East River below Cement Creek near Crested Butte, East River at Almont; 09152500, Gunnison River near Grand Junction; and 09163500, Colorado River near CO/UT Stateline are published elsewhere in this report with other water-quality data for their respective stations.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
09024000 FRASER RIVER AT WINTER PARK, CO (LAT 39 54 00N LONG 105 46 34W)										
APR 1995 07...	0920	8.4	186	7.7	0.5	9.8	44	11	3.9	15
400453105554200 FRASER RIVER AT HWY. 40 AT GRANBY, CO (LAT 40 04 53N LONG 105 55 42W)										
APR 1995 07...	1300	96	51	8.2	5.0	10.0	45	14	2.5	4.4
400550105581800 FRASER RIVER NEAR MOUTH NEAR GRANBY, CO (LAT 40 05 50N LONG 105 58 18W)										
APR 1995 07...	1445	96	120	8.3	5.0	10.0	52	16	3.0	6.4
09047500 SNAKE RIVER NEAR MONTEZUMA, CO (LAT 39 36 20N LONG 105 56 33W)										
APR 1995 08...	1210	19	161	--	2.0	9.5	56	17	3.3	6.2
393606105594600 SNAKE RIVER BELOW KEYSTONE, CO (LAT 39 36 06N LONG 105 59 46W)										
APR 1995 08...	1230	19	155	7.7	3.0	9.3	54	16	3.3	5.3
393844106195300 GORE CREEK AT GOLF COURSE AT VAIL, CO (LAT 39 38 44N LONG 106 19 53W)										
APR 1995 05...	1315	19	215	8.4	7.0	8.8	71	22	4.0	11
393713106253900 GORE CREEK AT WEST VAIL, CO (LAT 39 37 13N LONG 106 25 39W)										
APR 1995 05...	1200	41	334	9.1	5.0	10.6	140	44	7.0	10
393627106264000 EAGLE RIVER ABOVE GORE CREEK NEAR MINTURN, CO (LAT 39 36 27N LONG 106 26 40W)										
APR 1995 05...	1200	62	366	7.8	--	8.6	150	36	14	9.0
393845106353000 EAGLE RIVER AT EDWARDS, CO (LAT 39 38 45N LONG 106 35 30W)										
APR 1995 05...	1050	131	392	8.4	--	8.8	170	46	13	9.5
393937106485400 EAGLE RIVER AT HWY 6 BRIDGE ABOVE EAGLE, CO (LAT 39 39 37N LONG 106 48 54W)										
APR 1995 05...	0935	145	778	8.4	6.0	10.2	250	70	18	53
391531106525200 ROARING FORK RIVER BELOW ASPEN METRO PLAZA BELOW ASPEN, CO (LAT 39 15 31N LONG 106 52 52W)										
APR 1995 04...	1540	111	437	8.6	9.0	8.4	200	62	9.9	5.6
385237106583300 SLATE RIVER AT HWY 135 AT CRESTED BUTTE, CO (LAT 38 52 37N LONG 106 58 33W)										
MAR 1995 25...	0940	21	178	7.4	0.5	8.8	79	26	3.3	5.1

UPPER COLORADO RIVER BASIN NUTRIENT AND MAJOR ION RECONNAISSANCE SAMPLING--Continued
(National Water Quality Assessment Program)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	
385106106571000 SLATE RIVER ABOVE BAXTER GL @HWY 135 NEAR CRESTED BUTTE, CO (LAT 38 51 06N LONG 106 57 10W)											
MAR 1995 25...	1205	40	213	8.1	0.5	10.0	96	31	4.5	5.9	
384853106541500 SLATE RIVER AT MOUTH NEAR CRESTED BUTTE, CO (LAT 38 48 53N LONG 106 54 15W)											
MAR 1995 25...	1015	31	206	8.4	0.0	10.1	91	29	4.4	5.5	
384258106510300 EAST RIVER AT ROARING JUDY HATCHERY NEAR ALMONT, CO (LAT 38 42 58N LONG 106 51 03W)											
MAR 1995 25...	1200	88	282	8.9	1.5	10.9	140	44	7.4	4.9	
09144200 TONGUE CREEK AT CORY, CO (LAT 38 47 16N LONG 107 59 41W)											
MAR 1995 22...	1145	--	795	8.7	8.0	9.6	320	69	37	45	
09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO (LAT 38 11 02N LONG 107 44 43W)											
MAR 1995 23...	1045	95	690	8.2	7.0	9.2	300	100	11	23	
DATE		SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
09024000 FRASER RIVER AT WINTER PARK, CO (LAT 39 54 00N LONG 105 46 34W)											
APR 1995 07...	1	1.5	29	3.6	29	0.2	11	103	95	0.14	
400453105554200 FRASER RIVER AT HWY. 40 AT GRANBY, CO (LAT 40 04 53N LONG 105 55 42W)											
APR 1995 07...	0.3	2.9	46	3.7	4.4	0.2	11	80	72	0.11	
400550105581800 FRASER RIVER NEAR MOUTH NEAR GRANBY, CO (LAT 40 05 50N LONG 105 58 18W)											
APR 1995 07...	0.4	3.0	57	6.1	4.6	0.2	11	97	86	0.13	
09047500 SNAKE RIVER NEAR MONTEZUMA, CO (LAT 39 36 20N LONG 105 56 33W)											
APR 1995 08...	0.4	1.0	27	27	12	0.3	9.0	49	93	0.07	
393606105594600 SNAKE RIVER BELOW KEYSTONE, CO (LAT 39 36 06N LONG 105 59 46W)											
APR 1995 08...	0.3	1.1	28	24	9.9	0.1	9.2	90	86	0.12	
393844106195300 GORE CREEK AT GOLF COURSE AT VAIL, CO (LAT 39 38 44N LONG 106 19 53W)											
APR 1995 05...	0.6	0.7	66	3.5	21	0.1	4.9	112	107	0.15	
393713106253900 GORE CREEK AT WEST VAIL, CO (LAT 39 37 13N LONG 106 25 39W)											
APR 1995 05...	0.4	1.3	106	33	18	0.1	4.5	196	184	0.27	

UPPER COLORADO RIVER BASIN NUTRIENT AND MAJOR ION RECONNAISSANCE SAMPLING--Continued
(National Water Quality Assessment Program)

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
393627106264000 EAGLE RIVER ABOVE GORE CREEK NEAR MINTURN, CO (LAT 39 36 27N LONG 106 26 40W)										
APR 1995 05...	0.3	1.1	62	99	4.1	<0.1	7.1	221	210	0.30
393845106353000 EAGLE RIVER AT EDWARDS, CO (LAT 39 38 45N LONG 106 35 30W)										
APR 1995 05...	0.3	1.4	89	84	9.5	0.1	5.6	236	226	0.32
393937106485400 EAGLE RIVER AT HWY 6 BRIDGE ABOVE EAGLE, CO (LAT 39 39 37N LONG 106 48 54W)										
APR 1995 05...	1	2.4	117	140	76	0.2	5.6	464	438	0.63
391531106525200 ROARING FORK RIVER BELOW ASPEN METRO PLAZA BELOW ASPEN, CO (LAT 39 15 31N LONG 106 52 52W)										
APR 1995 04...	0.2	1.5	91	110	6.0	0.4	8.1	268	260	0.36
385237106583300 SLATE RIVER AT HWY 135 AT CRESTED BUTTE, CO (LAT 38 52 37N LONG 106 58 33W)										
MAR 1995 25...	0.3	0.8	49	33	1.3	0.3	7.0	107	107	0.15
385106106571000 SLATE RIVER ABOVE BAXTER GL @HWY 135 NEAR CRESTED BUTTE, CO (LAT 38 51 06N LONG 106 57 10W)										
MAR 1995 25...	0.3	0.9	61	36	3.4	0.3	6.7	131	127	0.18
384853106541500 SLATE RIVER AT MOUTH NEAR CRESTED BUTTE, CO (LAT 38 48 53N LONG 106 54 15W)										
MAR 1995 25...	0.3	0.9	61	33	2.7	0.2	6.8	128	121	0.17
384258106510300 EAST RIVER AT ROARING JUDY HATCHERY NEAR ALMONT, CO (LAT 38 42 58N LONG 106 51 03W)										
MAR 1995 25...	0.2	1.0	111	32	2.1	0.2	6.9	167	165	0.23
09144200 TONGUE CREEK AT CORY, CO (LAT 38 47 16N LONG 107 59 41W)										
MAR 1995 22...	1	4.2	191	220	4.7	0.3	24	540	520	0.73
09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO (LAT 38 11 02N LONG 107 44 43W)										
MAR 1995 23...	0.6	2.0	102	230	5.5	0.5	11	472	445	0.64

UPPER COLORADO RIVER BASIN NUTRIENT AND MAJOR ION RECONNAISSANCE SAMPLING--Continued
(National Water Quality Assessment Program)

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
09024000 FRASER RIVER AT WINTER PARK, CO (LAT 39 54 00N LONG 105 46 34W)										
APR 1995 07...	2.34	<0.01	0.19	0.97	0.03	1.1	1.0	0.11	0.11	0.09
400453105554200 FRASER RIVER AT HWY. 40 AT GRANBY, CO (LAT 40 04 53N LONG 105 55 42W)										
APR 1995 07...	20.7	<0.01	0.14	0.03	0.27	0.30	0.30	0.04	0.04	0.04
400550105581800 FRASER RIVER NEAR MOUTH NEAR GRANBY, CO (LAT 40 05 50N LONG 105 58 18W)										
APR 1995 07...	25.1	<0.01	0.17	<0.015	--	0.30	0.30	0.06	0.06	0.05
09047500 SNAKE RIVER NEAR MONTEZUMA, CO (LAT 39 36 20N LONG 105 56 33W)										
APR 1995 08...	2.51	<0.01	0.13	<0.015	--	<0.20	<0.20	<0.01	0.01	<0.01
393606105594600 SNAKE RIVER BELOW KEYSTONE, CO (LAT 39 36 06N LONG 105 59 46W)										
APR 1995 08...	4.62	<0.01	0.12	<0.015	--	<0.20	<0.20	<0.01	<0.01	<0.01
393844106195300 GORE CREEK AT GOLF COURSE AT VAIL, CO (LAT 39 38 44N LONG 106 19 53W)										
APR 1995 05...	5.75	<0.01	0.13	<0.015	--	<0.20	<0.20	<0.01	<0.01	<0.01
393713106253900 GORE CREEK AT WEST VAIL, CO (LAT 39 37 13N LONG 106 25 39W)										
APR 1995 05...	21.7	<0.01	0.56	<0.015	--	<0.20	<0.20	0.10	0.10	0.10
393627106264000 EAGLE RIVER ABOVE GORE CREEK NEAR MINTURN, CO (LAT 39 36 27N LONG 106 26 40W)										
APR 1995 05...	37.0	<0.01	0.15	0.02	--	<0.20	<0.20	<0.01	<0.01	<0.01
393845106353000 EAGLE RIVER AT EDWARDS, CO (LAT 39 38 45N LONG 106 35 30W)										
APR 1995 05...	83.5	<0.01	0.55	<0.015	--	<0.20	<0.20	0.05	0.05	0.04
393937106485400 EAGLE RIVER AT HWY 6 BRIDGE ABOVE EAGLE, CO (LAT 39 39 37N LONG 106 48 54W)										
APR 1995 05...	182	0.01	0.49	0.02	--	<0.20	<0.20	0.04	0.04	0.04
391531106525200 ROARING FORK RIVER BELOW ASPEN METRO PLAZA BELOW ASPEN, CO (LAT 39 15 31N LONG 106 52 52W)										
APR 1995 04...	80.3	<0.01	0.32	<0.015	--	<0.20	<0.20	0.07	0.07	0.07
09085100 COLORADO RIVER BELOW GLENWOOD SPRINGS, CO (LAT 39 33 18N LONG 107 20 13W)										
MAR 1995 26...	--	<0.01	0.14	0.07	--	0.20	<0.20	0.02	0.02	0.02
385237106583300 SLATE RIVER AT HWY 135 AT CRESTED BUTTE, CO (LAT 38 52 37N LONG 106 58 33W)										
MAR 1995 25...	6.07	<0.01	0.11	<0.015	--	<0.20	<0.20	<0.01	<0.01	<0.01
385106106571000 SLATE RIVER ABOVE BAXTER GULCH @HWY 135 NEAR CRESTED BUTTE, CO (LAT 38 51 06N LONG 106 57 10W)										
MAR 1995 25...	14.0	<0.01	0.39	0.07	--	<0.20	<0.20	0.05	0.03	0.03

UPPER COLORADO RIVER BASIN NUTRIENT AND MAJOR ION RECONNAISSANCE SAMPLING--Continued
(National Water Quality Assessment Program)

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
384853106541500 SLATE RIVER AT MOUTH NEAR CRESTED BUTTE, CO (LAT 38 48 53N LONG 106 54 15W)										
MAR 1995 25...	10.7	<0.01	0.29	0.02	--	<0.20	<0.20	0.04	0.02	0.02
384258106510300 EAST RIVER AT ROARING JUDY HATCHERY NEAR ALMONT, CO (LAT 38 42 58N LONG 106 51 03W)										
MAR 1995 25...	39.8	<0.01	0.05	<0.015	--	<0.20	<0.20	0.02	<0.01	<0.01
09144200 TONGUE CREEK AT CORY, CO (LAT 38 47 16N LONG 107 59 41W)										
MAR 1995 22...	--	<0.01	0.22	0.02	0.28	0.70	0.30	0.20	0.03	0.02
09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO (LAT 38 11 02N LONG 107 44 43W)										
MAR 1995 23...	121	<0.01	0.14	0.02	--	<0.20	<0.20	<0.01	<0.01	<0.01

UPPER COLORADO RIVER BASIN HIGH FLOW SAMPLING
(National Water Quality Assessment Program)

The Upper Colorado River Basin National Water Quality Assessment Study Unit sampled high flows at several stations during the spring snowmelt runoff season. Data were collected at both continuing record water-quality stations and at the stream flow gaging stations listed here. High-flow data for the continuing record water-quality stations: 09010500, Colorado River below Baker Gulch; 09069000, Eagle River at Gypsum; 09112200, East River below Cement Creek near Crested Butte; 383103106594200, Gunnison River at County Rd 32 below Gunnison; 09128000, Gunnison River below Gunnison Tunnel; 09152500, Gunnison River near Grand Junction; and 09163500, Colorado River near CO/UT Stateline are published elsewhere in this report with other water-quality data for the respective stations.

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
		09047500	SNAKE RIVER NEAR MONTEZUMA, CO (LAT 39 36 20N LONG 105 56 33W)									
JUN 1955 18...	1020	675	65	7.0	3.0	10.1	23	6.7	1.4	1.5	0.1	0.7
		09085100	COLORADO RIVER BELOW GLENWOOD SPRINGS, CO (LAT 39 33 18N LONG 107 20 13W)									
JUN 1955 19...	0645	20500	243	7.8	9.0	9.8	87	27	4.8	12	0.6	1.3
		09146200	UNCOMPAHGRE RIVER NEAR RIDGWAY, CO (LAT 38 11 02N LONG 107 44 43W)									
JUN 1955 21...	1057	943	235	7.8	8.5	9.2	95	33	3.1	4.4	0.2	0.8
DATE		BICAR-BONATE WATER DIS FIELD MG/L AS HCO3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
		09047500	SNAKE RIVER NEAR MONTEZUMA, CO (LAT 39 36 20N LONG 105 56 33W)									
JUN 1955 18...	9	8	15	1.2	<0.1	5.6	42	38	0.06	76.5	<0.01	
		09085100	COLORADO RIVER BELOW GLENWOOD SPRINGS, CO (LAT 39 33 18N LONG 107 20 13W)									
JUN 1955 19...	76	62	25	15	0.1	8.0	142	131	0.19	7860	<0.01	
		09146200	UNCOMPAHGRE RIVER NEAR RIDGWAY, CO (LAT 38 11 02N LONG 107 44 43W)									
JUN 1955 21...	56	46	61	0.80	0.2	6.3	147	138	0.20	374	<0.01	
DATE		NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
		09047500	SNAKE RIVER NEAR MONTEZUMA, CO (LAT 39 36 20N LONG 105 56 33W)									
JUN 1955 18...	0.12	0.04	0.50	<0.20	0.14	0.03	<0.01	2.0	2.7	43	140	
		09085100	COLORADO RIVER BELOW GLENWOOD SPRINGS, CO (LAT 39 33 18N LONG 107 20 13W)									
JUN 1955 19...	0.10	0.03	0.60	<0.20	0.23	0.02	0.01	4.7	2.6	76	17	
		09146200	UNCOMPAHGRE RIVER NEAR RIDGWAY, CO (LAT 38 11 02N LONG 107 44 43W)									
JUN 1955 21...	0.15	<0.015	0.30	<0.20	0.50	<0.01	<0.01	1.3	2.2	46	61	

UPPER COLORADO RIVER BASIN HIGH FLOW SAMPLING--Continued
(National Water Quality Assessment Program)

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ANTI- MONY, DIS- SOLVED (UG/L AS SB)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)
09047500 SNAKE RIVER NEAR MONTEZUMA, CO (LAT 39 36 20N LONG 105 56 33W)										
JUN 1995 18...	60	<1	<1	15	<1	<1	<1	<1	4	1
09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO (LAT 38 11 02N LONG 107 44 43W)										
JUN 1995 21...	100	<1	<1	24	<1	<1	<1	<1	6	<1
DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	
09047500 SNAKE RIVER NEAR MONTEZUMA, CO (LAT 39 36 20N LONG 105 56 33W)										
JUN 1995 18...	140	<1	2	<1	<1	220	<1	130	237	
09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO (LAT 38 11 02N LONG 107 44 43W)										
JUN 1995 21...	61	1	3	<1	<1	18	<1	585	1490	

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 NE¹/4NW¹/4, 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 to September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)
JUL							
12...	1024	--	--	--	--	18.0	--
12...	1025	0.0	205	7.9	23.0	--	5.7
12...	1026	3.5	204	7.9	21.5	--	5.9
AUG							
09...	0953	--	--	--	--	36.0	--
09...	0955	0.0	213	7.6	19.5	--	6.6
09...	0956	3.0	212	7.6	19.5	--	6.4
SEP							
13...	0945	--	--	--	--	36.0	--
13...	0946	0.0	209	7.8	17.5	--	6.7
13...	0947	3.0	209	7.8	17.5	--	6.2

403506107214500 ELKHEAD RESERVOIR SITE 1B

LOCATION.--Lat 40°35'06", long 107°21'45", in NE¹/4NW¹/4, 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 to September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)
JUL							
12...	1055	--	--	--	--	18.0	--
12...	1056	0.0	203	8.0	22.5	--	5.8
12...	1057	3.0	205	7.9	21.5	--	5.6
12...	1058	6.0	213	7.9	21.0	--	5.7
12...	1059	9.0	209	7.8	20.5	--	5.2
AUG							
09...	1004	--	--	--	--	36.0	--
09...	1005	0.0	207	7.7	20.0	--	6.3
09...	1006	3.0	212	7.7	20.0	--	6.4
09...	1007	6.0	224	7.6	19.0	--	6.2
09...	1008	9.0	220	7.6	19.0	--	6.1
09...	1009	10	219	7.6	19.0	--	6.0
SEP							
13...	1000	--	--	--	--	36.0	--
13...	1001	0.0	214	7.9	17.5	--	6.5
13...	1002	3.0	215	7.9	17.5	--	6.5
13...	1003	6.0	222	7.9	17.0	--	6.4
13...	1004	12	242	7.9	16.5	--	6.6

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
JUL								
12...	1115	2.0	208	7.9	21.5	5.6	0.001	<0.005
12...	1135	6.0	213	7.9	21.0	5.7	0.002	<0.005
AUG								
09...	1020	2.0	210	7.7	20.0	6.4	0.001	<0.005
09...	1030	8.0	222	7.6	19.0	6.1	0.001	<0.005
SEP								
13...	1010	2.0	214	7.9	17.5	6.5	0.002	<0.005
13...	1040	9.0	234	8.0	16.5	6.6	0.003	<0.005

ELKHEAD RESERVOIR NEAR CRAIG, CO--Continued

WATER-QUALITY RECORDS

403506107214500 ELKHEAD RESERVOIR SITE 1B--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
JUL								
12...	0.017	0.40	0.60	0.029	0.011	<0.001	1.4	<0.1
12...	0.019	0.30	0.40	0.027	0.010	<0.001	1.0	<0.1
AUG								
09...	0.067	--	--	0.022	0.010	0.002	1.4	<0.1
09...	0.048	0.40	0.50	0.029	0.008	0.002	2.0	<0.1
SEP								
13...	<0.002	0.40	0.20	0.027	0.005	<0.001	3.1	0.5
13...	<0.002	0.30	0.20	0.024	0.004	<0.001	2.4	0.3

403439107223800 ELKHEAD RESERVOIR SITE 2A

LOCATION.--Lat 40°34'39", long 107°22'38", in NE¹/4SE¹/4, 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 to September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)
JUL							
12...	1225	--	--	--	--	30.0	--
12...	1226	0.0	170	8.1	21.0	--	6.8
12...	1227	3.0	170	8.1	21.0	--	6.8
12...	1228	6.0	170	8.1	21.0	--	6.8
12...	1229	9.0	170	8.1	20.5	--	6.7
12...	1230	12	163	7.8	19.5	--	5.8
12...	1231	15	161	7.5	15.5	--	5.6
12...	1232	18	162	7.3	14.0	--	5.2
12...	1233	21	170	7.2	12.0	--	4.7
12...	1234	24	169	7.2	11.5	--	4.7
AUG							
09...	1109	--	--	--	--	78.0	--
09...	1110	0.0	193	7.8	20.5	--	6.7
09...	1111	3.0	191	7.7	19.5	--	6.7
09...	1112	6.0	189	7.7	19.5	--	6.7
09...	1113	9.0	188	7.7	19.0	--	6.7
09...	1114	12	188	7.6	19.0	--	6.5
09...	1115	15	185	7.6	19.0	--	6.3
09...	1116	18	184	7.3	17.0	--	5.1
09...	1117	19	181	7.1	16.0	--	4.4
SEP							
13...	1130	--	--	--	--	66.0	--
13...	1131	0.0	192	7.8	18.0	--	6.3
13...	1132	3.0	194	7.8	17.5	--	6.3
13...	1133	6.0	194	7.8	17.5	--	6.3
13...	1134	9.0	195	7.8	17.5	--	6.2
13...	1135	12	194	7.8	17.5	--	6.1
13...	1136	15	194	7.7	17.5	--	6.1
13...	1137	18	194	7.8	17.5	--	6.1

ELKHEAD RESERVOIR NEAR CRAIG, CO--Continued

WATER-QUALITY RECORDS

403437107223300 ELKHEAD RESERVOIR SITE 2B

LOCATION.--Lat 40°34'37", long 107°22'33", in NE¹/4SE¹/4, 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 to September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

		SPE- CIFIC CON- DUCT- ANCE (US/CM)				TRANS- PAR- ENCY (SECCHI DISK) (IN)		
DATE	TIME	SAM- PLING DEPTH (FEET)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	
JUL								
12...	1245	--	--	--	30.0	--	--	
12...	1246	0.0	169	8.1	21.0	--	6.7	
12...	1247	3.0	169	8.1	21.0	--	6.7	
12...	1248	6.0	169	8.1	21.0	--	6.7	
12...	1249	9.0	170	8.1	20.5	--	6.7	
12...	1250	12	161	8.0	19.5	--	6.6	
12...	1251	15	158	7.5	14.5	--	6.0	
12...	1252	18	162	7.4	13.0	--	5.5	
12...	1253	21	169	7.2	11.0	--	5.0	
12...	1254	24	166	7.2	11.0	--	4.8	
12...	1255	27	169	7.2	10.0	--	4.8	
12...	1256	30	167	7.2	9.5	--	4.8	
12...	1257	33	165	7.2	9.0	--	5.1	
12...	1258	36	167	7.2	9.0	--	5.2	
12...	1259	39	166	7.2	8.5	--	5.2	
AUG								
09...	1124	--	--	--	78.0	--	--	
09...	1125	0.0	192	7.8	20.5	--	6.7	
09...	1126	3.0	191	7.8	19.5	--	6.7	
09...	1127	6.0	192	7.7	19.5	--	6.7	
09...	1128	9.0	194	7.8	19.0	--	6.7	
09...	1129	12	188	7.7	19.0	--	6.7	
09...	1130	15	186	7.7	19.0	--	6.7	
09...	1131	18	182	7.3	17.0	--	5.1	
09...	1132	21	177	7.0	13.5	--	3.7	
09...	1133	24	176	6.9	12.0	--	3.3	
09...	1134	27	173	6.9	10.5	--	3.5	
09...	1135	30	171	6.9	9.5	--	3.6	
09...	1136	33	170	6.9	9.0	--	3.7	
09...	1137	36	169	6.9	9.0	--	3.8	
SEP								
13...	1143	--	--	--	66.0	--	--	
13...	1144	0.0	193	7.8	18.0	--	6.3	
13...	1145	3.0	193	7.8	17.5	--	6.3	
13...	1146	6.0	194	7.8	17.5	--	6.2	
13...	1147	9.0	195	7.8	17.5	--	6.1	
13...	1148	12	195	7.8	17.5	--	6.0	
13...	1149	15	194	7.7	17.5	--	6.0	
13...	1150	18	195	7.7	17.0	--	6.0	
13...	1151	21	193	7.7	17.0	--	5.7	
13...	1152	24	182	7.0	14.0	--	1.4	
13...	1153	27	178	6.9	12.0	--	1.4	
13...	1155	33	173	6.8	10.0	--	1.4	
13...	1156	34	172	6.8	9.5	--	1.4	

ELKHED RESERVOIR NEAR CRAIG, CO--Continued

WATER-QUALITY RECORDS

403437107223300 ELKHED RESERVOIR SITE 2B--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
JUL								
12...	0.011	--	--	0.021	0.010	<0.001	0.9	<0.1
12...	0.009	0.40	0.40	0.045	0.014	0.002	<0.1	<0.1
AUG								
09...	0.007	0.20	0.20	0.016	0.007	0.002	0.8	<0.1
09...	0.006	0.30	0.30	0.015	0.010	0.003	0.6	<0.1
SEP								
13...	<0.002	0.30	0.20	0.016	0.003	<0.001	1.3	<0.1
13...	<0.002	0.30	0.20	0.040	0.004	<0.001	0.4	<0.1

403435107222900 ELKHED RESERVOIR SITE 2C

LOCATION.--Lat 40°34'35", long 107°22'29", in NE¹/4SE¹/4, 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 to September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)
JUL							
12...	1335	--	--	--	--	30.0	--
12...	1336	0.0	169	8.1	21.5	--	6.7
12...	1337	3.0	168	8.1	21.5	--	6.7
12...	1338	6.0	167	8.1	21.0	--	6.7
12...	1339	9.0	167	8.0	20.0	--	6.6
12...	1340	12	164	7.9	19.0	--	6.4
12...	1341	15	164	7.7	17.5	--	5.9
12...	1342	18	158	7.5	15.0	--	5.4
12...	1343	21	162	7.2	12.5	--	4.9
12...	1344	24	168	7.2	11.0	--	4.8
12...	1345	27	168	7.2	10.5	--	4.7
12...	1346	30	167	7.2	9.0	--	5.1
12...	1347	33	169	7.2	9.0	--	5.1
12...	1348	36	167	7.2	9.0	--	5.1
12...	1349	39	167	7.2	8.5	--	5.2
AUG							
09...	1205	--	--	--	--	78.0	--
09...	1206	0.0	191	7.8	20.5	--	6.8
09...	1207	3.0	191	7.8	20.0	--	6.8
09...	1208	6.0	192	7.8	19.5	--	6.9
09...	1209	9.0	193	7.8	19.5	--	6.9
09...	1210	12	189	7.7	19.0	--	6.6
09...	1211	15	184	7.5	18.5	--	6.1
09...	1212	18	180	7.3	16.5	--	5.1
09...	1213	21	181	7.0	13.5	--	3.8
09...	1214	24	178	6.9	11.5	--	3.4
09...	1215	27	172	6.9	10.5	--	3.7
09...	1216	30	170	6.9	10.0	--	4.0
09...	1217	33	170	6.9	9.5	--	4.0
09...	1218	36	170	6.9	9.0	--	3.8
SEP							
13...	1240	--	--	--	--	66.0	--
13...	1241	0.0	193	7.8	18.5	--	6.4
13...	1242	3.0	195	7.8	18.0	--	6.4
13...	1243	6.0	194	7.8	17.5	--	6.6
13...	1244	9.0	195	7.8	17.5	--	6.6
13...	1245	12	194	7.8	17.5	--	6.5
13...	1246	15	195	7.8	17.5	--	6.5
13...	1247	18	194	7.7	17.5	--	6.5
13...	1248	21	190	7.4	16.5	--	5.1
13...	1249	24	181	6.9	13.5	--	1.8
13...	1250	27	177	6.9	12.0	--	1.5
13...	1251	30	174	6.9	11.0	--	1.6
13...	1252	33	172	6.9	10.0	--	1.6
13...	1253	36	172	6.9	9.5	--	1.6
13...	1254	39	172	6.8	9.5	--	1.6
13...	1255	42	172	6.8	9.0	--	1.7
13...	1256	45	172	6.8	9.0	--	1.7

ELKHEAD RESERVOIR NEAR CRAIG, CO--Continued

WATER-QUALITY RECORDS

403336107230700 ELKHEAD RESERVOIR SITE 3A

LOCATION.--Lat 40°33'36", long 107°23'07", in SE¹/4SW¹/4, 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 to September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)
JUL							
12...	1410	--	--	--	--	30.0	--
12...	1411	0.0	159	8.1	20.0	--	6.8
12...	1412	3.0	159	8.0	20.0	--	6.7
12...	1413	6.0	156	7.5	13.5	--	6.0
12...	1414	9.0	156	7.4	13.5	--	5.7
12...	1415	12	153	7.3	12.5	--	5.6
12...	1416	15	150	7.2	11.0	--	5.6
12...	1417	18	148	7.3	10.0	--	6.0
AUG							
09...	1220	--	--	--	--	78.0	--
09...	1221	0.0	182	7.7	20.0	--	6.7
09...	1222	3.0	182	7.7	19.5	--	6.7
09...	1223	6.0	183	7.7	19.0	--	6.6
09...	1224	9.0	183	7.7	19.0	--	6.6
09...	1225	12	183	7.6	19.0	--	6.5
09...	1226	15	183	7.6	19.0	--	6.6
09...	1227	18	182	7.5	17.5	--	5.8
SEP							
13...	1306	--	--	--	--	72.0	--
13...	1307	0.0	191	7.9	19.0	--	6.8
13...	1308	3.0	192	7.9	18.0	--	6.5
13...	1309	6.0	192	7.9	17.5	--	6.4
13...	1310	9.0	192	7.8	17.5	--	6.4
13...	1311	12	192	7.8	17.5	--	6.3
13...	1312	15	192	7.8	17.5	--	6.3
13...	1313	18	192	7.8	17.5	--	6.2
13...	1314	21	192	7.8	17.5	--	5.9
13...	1315	22	189	7.5	16.0	--	5.0

403333107230100 ELKHEAD RESERVOIR SITE 3B

LOCATION.--Lat 40°33'33", long 107°23'01", in SE¹/4SW¹/4, 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 to September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)
JUL							
12...	1450	--	--	--	--	30.0	--
12...	1451	0.0	156	8.0	19.0	--	6.6
12...	1452	3.0	156	8.0	19.0	--	6.6
12...	1453	6.0	156	7.8	18.5	--	6.4
12...	1454	9.0	154	7.4	13.0	--	5.9
12...	1455	12	153	7.3	12.5	--	5.6
12...	1456	15	147	7.3	11.0	--	5.8
12...	1457	18	149	7.3	10.5	--	6.2
12...	1458	21	152	7.3	10.0	--	6.2
12...	1459	24	155	7.3	9.0	--	6.5
12...	1500	27	158	7.4	8.5	--	6.6
12...	1501	30	161	7.4	8.5	--	6.6
12...	1502	33	162	7.4	8.5	--	6.6
12...	1503	36	164	7.4	8.0	--	6.6
12...	1504	39	168	7.3	8.0	--	6.4
12...	1505	42	171	7.3	8.0	--	6.4
12...	1506	45	174	7.3	8.0	--	6.3
12...	1507	48	177	7.3	8.0	--	6.1
12...	1508	51	174	7.3	7.5	--	6.1
12...	1509	54	181	7.2	7.5	--	5.6
12...	1510	58	181	7.2	7.5	--	4.8

ELKHED RESERVOIR NEAR CRAIG, CO--Continued

WATER-QUALITY RECORDS

403333107230100 ELKHED RESERVOIR SITE 3B--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

		SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	
AUG								
09...	1310	--	--	--	--	78.0	--	
09...	1311	0.0	182	7.7	20.5	--	6.7	
09...	1312	3.0	182	7.7	20.0	--	6.5	
09...	1313	6.0	183	7.7	19.0	--	6.6	
09...	1314	9.0	183	7.7	19.0	--	6.5	
09...	1315	12	183	7.7	19.0	--	6.5	
09...	1316	15	183	7.6	19.0	--	6.5	
09...	1317	18	176	7.1	16.0	--	4.1	
09...	1318	21	167	7.0	12.5	--	4.1	
09...	1319	24	162	7.0	11.0	--	4.4	
09...	1320	27	159	7.0	10.0	--	4.9	
09...	1321	30	159	7.0	9.5	--	5.3	
09...	1322	33	161	7.0	9.0	--	5.5	
09...	1323	36	162	7.0	9.0	--	5.5	
09...	1324	39	164	7.0	8.5	--	5.5	
09...	1325	42	166	7.0	8.5	--	5.6	
09...	1326	45	167	7.0	8.5	--	5.6	
09...	1327	48	169	7.0	8.0	--	5.5	
09...	1328	51	172	7.0	8.0	--	5.1	
09...	1329	54	175	7.0	8.0	--	4.9	
09...	1330	55	178	6.9	7.5	--	3.9	
SEP								
13...	1325	--	--	--	--	72.0	--	
13...	1326	0.0	191	7.9	19.0	--	6.6	
13...	1327	3.0	192	7.9	18.0	--	6.6	
13...	1328	6.0	192	7.9	17.5	--	6.6	
13...	1329	9.0	192	7.9	17.5	--	6.6	
13...	1330	12	192	7.9	17.5	--	6.5	
13...	1331	15	192	7.8	17.5	--	6.4	
13...	1332	18	192	7.8	17.5	--	6.4	
13...	1333	21	191	7.7	17.0	--	6.0	
13...	1334	24	169	7.0	14.0	--	2.2	
13...	1335	27	163	7.0	11.5	--	2.9	
13...	1336	30	161	7.0	10.5	--	3.4	
13...	1337	33	160	7.0	9.5	--	3.9	
13...	1338	36	161	7.0	9.0	--	4.0	
13...	1339	39	163	7.0	9.0	--	3.9	
13...	1340	42	163	7.0	8.5	--	4.3	
13...	1341	45	165	7.0	8.5	--	3.8	
13...	1342	48	166	7.0	8.5	--	3.9	
13...	1343	51	169	7.0	8.0	--	3.1	
13...	1345	57	174	6.8	8.0	--	1.9	
		SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
JUL								
12...	1435	2.0	156	8.0	19.0	6.6	0.002	<0.005
12...	1445	56	181	7.2	7.5	5.2	0.003	0.160
AUG								
09...	1255	2.0	183	7.7	20.0	6.5	0.004	0.005
09...	1305	53	178	6.9	7.5	3.8	0.004	0.160
SEP								
13...	1355	2.0	192	7.9	18.5	6.6	0.001	<0.005
13...	1410	54	172	6.9	8.0	2.5	0.002	0.180

ELKHEAD RESERVOIR NEAR CRAIG, CO--Continued

WATER-QUALITY RECORDS

403333107230100 ELKHEAD RESERVOIR SITE 3B--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
JUL								
12...	0.049	--	--	0.022	0.010	0.001	0.6	<0.1
12...	<0.002	--	--	0.057	0.019	0.003	<0.1	<0.1
AUG								
09...	0.008	0.30	0.20	0.014	0.006	0.002	0.4	<0.1
09...	0.004	0.40	0.30	0.050	0.022	0.009	<0.1	<0.1
SEP								
13...	<0.002	0.30	0.20	0.013	0.005	<0.001	0.8	<0.1
13...	<0.002	0.40	0.30	0.071	0.020	0.002	--	--

403331107225500 ELKHEAD RESERVOIR SITE 3C

LOCATION.--Lat 40°33'31", long 107°22'55", in SE¹/4SW¹/4, 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 to September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)
JUL							
12...	1515	--	--	--	--	24.0	--
12...	1516	0.0	157	8.0	19.5	--	6.8
12...	1517	3.0	157	8.0	19.5	--	6.7
12...	1518	6.0	158	8.0	19.5	--	6.7
12...	1519	9.0	154	7.5	14.0	--	6.2
12...	1520	12	154	7.4	13.0	--	5.6
12...	1521	15	146	7.3	11.0	--	6.0
12...	1522	18	147	7.3	10.5	--	6.1
12...	1523	21	150	7.3	9.5	--	6.3
12...	1524	24	154	7.3	9.5	--	6.3
12...	1525	27	160	7.3	9.0	--	6.3
12...	1526	30	162	7.3	8.5	--	6.4
12...	1527	33	167	7.3	8.5	--	6.4
12...	1528	36	166	7.3	8.0	--	6.4
12...	1529	39	168	7.3	8.0	--	6.4
12...	1530	42	170	7.3	8.0	--	6.4
12...	1531	45	172	7.3	8.0	--	6.3
12...	1532	48	179	7.3	8.0	--	6.2
12...	1533	51	177	7.3	8.0	--	6.2
12...	1534	54	180	7.3	7.5	--	5.8
12...	1535	57	182	7.2	7.5	--	5.1
AUG							
09...	1335	--	--	--	--	78.0	--
09...	1336	0.0	182	7.7	21.5	--	6.6
09...	1337	3.0	183	7.7	19.5	--	6.7
09...	1338	6.0	182	7.7	19.0	--	6.7
09...	1339	9.0	182	7.7	19.0	--	6.6
09...	1340	12	182	7.6	19.0	--	6.6
09...	1341	15	182	7.6	19.0	--	6.6
09...	1342	18	177	7.2	16.0	--	4.6
09...	1343	21	164	7.0	12.5	--	4.3
09...	1344	24	161	7.0	11.5	--	4.4
09...	1345	27	159	7.0	10.0	--	4.9
09...	1346	30	158	7.0	9.5	--	5.3
09...	1347	33	160	7.0	9.0	--	5.7
09...	1348	36	161	7.0	9.0	--	5.6
09...	1349	39	163	7.0	8.5	--	5.6
09...	1350	42	165	7.0	8.5	--	5.7
09...	1351	45	167	7.0	8.5	--	5.6
09...	1352	48	169	7.0	8.0	--	5.6
09...	1353	51	171	7.0	8.0	--	5.3
09...	1354	54	175	6.9	8.0	--	4.6
09...	1355	57	177	6.9	7.5	--	4.1

ELKHEAD RESERVOIR NEAR CRAIG, CO--Continued

WATER-QUALITY RECORDS

403331107225500 ELKHEAD RESERVOIR SITE 3C--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)
SEP							
13...	1452	--	--	--	--	78.0	--
13...	1453	0.0	191	7.9	19.5	--	6.7
13...	1454	3.0	191	7.9	19.5	--	6.6
13...	1455	6.0	193	7.9	18.0	--	6.7
13...	1456	9.0	191	7.8	17.5	--	6.4
13...	1457	12	192	7.8	17.5	--	6.4
13...	1458	15	192	7.8	17.5	--	6.4
13...	1459	18	192	7.8	17.5	--	6.3
13...	1500	21	190	7.6	17.0	--	5.6
13...	1501	24	169	7.0	13.5	--	2.1
13...	1502	27	163	7.0	11.5	--	2.9
13...	1503	30	162	7.0	10.5	--	3.3
13...	1504	33	162	7.0	9.5	--	3.6
13...	1505	36	164	7.0	9.0	--	3.6
13...	1506	39	165	7.0	9.0	--	3.6
13...	1507	42	164	7.0	8.5	--	3.8
13...	1508	45	166	7.0	8.5	--	3.7
13...	1509	48	169	6.9	8.5	--	3.3
13...	1510	51	169	6.9	8.0	--	3.2
13...	1511	54	171	6.9	8.0	--	2.7
13...	1512	57	174	6.8	8.0	--	2.0
13...	1513	60	174	6.8	8.0	--	1.8

MISCELLANEOUS STATION ANALYSES

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
09019500 COLORADO RIVER NEAR GRANBY, CO (LAT 40 07 15N LONG 105 54 00W)									
APR 1995					JUL 1995				
19...	1448	22	77	8.0	28...	1035	276	57	17.0
MAY					AUG				
19...	1209	80	70	6.5	15...	1150	40	70	13.0
JUN									
23...	0910	88	77	7.5					
09024000 FRASER RIVER AT WINTER PARK, CO (LAT 39 54 00N LONG 105 46 34W)									
JAN 1995					JUN 1995				
05...	1250	3.5	133	0.0	23...	1330	--	42	5.5
MAR					29...	1150	249	43	4.0
16...	1405	6.9	223	4.0	JUL				
APR					26...	0950	122	46	4.5
07...	0920	8.4	186	0.5	AUG				
20...	1454	9.1	178	3.0	16...	1510	32	64	10.5
MAY					SEP				
16...	1300	23	152	4.5	19...	0920	9.6	80	6.5
09025000 VASQUEZ CREEK AT WINTER PARK, CO (LAT 39 55 13N LONG 105 47 05W)									
OCT 1994					JUN 1995				
13...	1157	5.4	--	--	21...	1015	231	25	3.0
APR 1995					JUL				
19...	1016	6.7	63	0.5	27...	1305	13	36	12.0
MAY					SEP				
16...	1536	14	59	3.5	19...	1150	22	40	6.5
09025400 ELK CREEK NEAR FRASER, CO (LAT 39 55 09N LONG 105 49 31W)									
MAR 1995					JUL 1995				
20...	1440	0.68	60	0.5	26...	1510	7.5	37	12.5
MAY					AUG				
17...	1320	11	40	1.5	15...	1635	1.1	50	15.0
JUN					30...	0945	2.9	49	9.0
21...	1520	42	31	9.5					
09026500 ST. LOUIS CREEK NEAR FRASER, CO (LAT 39 54 36N LONG 105 52 40W)									
OCT 1994					JUL 1995				
20...	1345	9.0	91	1.0	26...	1820	154	53	10.0
MAR 1995					AUG				
21...	0958	6.4	95	0.0	15...	1530	20	74	13.5
JUN					30...	1120	22	75	7.5
22...	1300	323	54	6.0					
09032000 RANCH CREEK NEAR FRASER, CO (LAT 39 57 00N LONG 105 45 54W)									
MAR 1995					JUN 1995				
16...	0910	1.5	58	0.5	23...	1050	203	22	3.5
APR					AUG				
20...	1610	2.6	59	1.0	16...	1200	6.2	39	8.5
MAY									
17...	1500	12	49	1.5					
09032100 CABIN CREEK NEAR FRASER, CO (LAT 39 59 09N LONG 105 44 40W)									
DEC 1994					JUL 1995				
23...	1430	1.2	48	0.0	25...	1110	26	31	7.0
MAR 1995					AUG				
21...	1430	1.2	46	0.5	16...	0930	7.3	40	7.0
MAY					16...	1008	7.3	40	7.0
18...	1533	5.4	36	3.0					
JUN									
21...	1345	77	25	6.5					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
09034250 COLORADO RIVER AT WINDY GAP, NEAR GRANBY, CO (LAT 40 06 30N LONG 106 00 13W)									
OCT 1994					MAY 1995				
06...	1010	83	142	8.0	19...	1200	126	141	10.5
NOV					19...	1400	126	141	10.5
09...	1540	76	134	5.0	JUN				
DEC					22...	1415	1890	71	10.5
20...	1400	67	130	0.0	JUL				
20...	1500	67	130	0.0	12...	1300	1560	66	11.5
20...	1730	--	--	--	12...	1530	1560	66	11.5
FEB 1995					AUG				
07...	1510	76	131	0.5	17...	1445	182	115	17.5
MAR					SEP				
30...	1200	78	153	4.0	21...	0950	148	131	10.0
30...	1205	78	153	4.0					
09034900 BOBTAIL CREEK NEAR JONES PASS, CO (LAT 39 45 37N LONG 105 54 21W)									
OCT 1994					JUN 1995				
26...	1530	2.5	66	0.0	29...	1415	75	31	1.5
DEC					AUG				
20...	1130	1.0	71	0.0	02...	1400	30	37	10.5
MAR 1995					SEP				
09...	1120	1.2	63	0.0	14...	1510	5.1	54	8.5
MAY									
03...	1335	0.66	77	0.0					
31...	1445	3.8	54	0.5					
09035500 WILLIAMS FORK BELOW STEELMAN CREEK, CO (LAT 39 46 44N LONG 105 55 40W)									
OCT 1994					JUN 1995				
26...	1400	17	75	0.5	29...	1020	199	31	2.0
DEC					AUG				
20...	1200	3.1	73	0.0	02...	1100	76	37	5.0
MAR 1995					SEP				
09...	1400	2.5	65	0.0	14...	1150	4.6	60	7.0
MAY									
31...	1015	15	54	0.5					
09035700 WILLIAMS FORK ABOVE DARLING CREEK, NR LEAL, CO (LAT 39 47 22N LONG 106 01 18W)									
OCT 1994					MAY 1995				
19...	1100	13	66	2.0	04...	1055	10	71	2.0
DEC					JUL				
14...	1000	--	--	--	10...	1255	394	32	7.0
FEB 1995					AUG				
24...	1000	8.4	73	0.0	08...	1035	84	45	8.5
APR					SEP				
04...	1415	8.4	74	3.5	11...	1025	40	58	6.5
09035800 DARLING CREEK NEAR LEAL, CO (LAT 39 48 17N LONG 106 01 11W)									
OCT 1994					JUL 1995				
19...	1300	3.1	79	1.5	10...	1048	79	41	4.0
FEB 1995					AUG				
23...	1130	1.9	83	0.5	08...	0850	15	55	6.5
APR					SEP				
04...	1030	2.1	75	0.5	11...	0900	7.0	69	5.5
MAY									
01...	1430	2.4	85	3.0					
09035900 SOUTH FORK OF WILLIAMS FORK NEAR LEAL, CO (LAT 39 47 44N LONG 106 01 49W)									
OCT 1994					MAY 1995				
19...	1000	11	88	1.5	10...	1050	9.5	93	2.0
FEB 1995					AUG				
23...	1500	7.2	94	0.0	08...	1220	56	61	9.0
APR					SEP				
04...	1230	5.6	96	1.0	11...	1210	25	76	7.0
09036000 WILLIAMS FORK NEAR LEAL, CO (LAT 39 49 53N LONG 106 03 15W)									
OCT 1994					JUN 1995				
19...	0945	34	82	2.0	19...	1600	861	42	9.0
FEB 1995					JUL				
23...	0945	19	88	1.0	10...	1644	872	36	10.5
APR					AUG				
04...	0815	22	87	0.0	08...	1245	193	55	12.5
MAY					SEP				
02...	1305	30	87	3.0	12...	1435	75	70	11.0

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
09037500 WILLIAMS FORK NEAR PARSHALL, CO (LAT 40 00 01N LONG 106 10 45W)									
OCT 1994					JUN 1995				
21...	1305	51	103	6.0	20...	1020	1350	44	5.0
DEC					JUL				
20...	1355	26	105	-1.0	11...	1009	958	44	7.0
MAR 1995					AUG				
20...	1215	46	101	0.5	09...	0820	192	65	10.0
APR					SEP				
04...	1600	36	106	9.0	12...	1215	81	85	10.5
MAY									
03...	1025	70	101	4.5					
09038500 WILLIAMS FORK BELOW WILLIAMS FORK RESERVOIR, CO (LAT 40 02 07N LONG 106 12 17W)									
OCT 1994					JUN 1995				
06...	1240	110	101	11.0	20...	1325	504	99	8.0
07...	1230	110	81	11.0	JUL				
NOV					11...	1245	1040	79	13.0
09...	1210	48	109	8.0	13...	1050	1050	80	13.5
JAN 1995					AUG				
25...	1330	18	131	3.5	09...	1020	233	77	9.5
APR					SEP				
04...	1315	43	127	4.0	12...	0845	107	74	9.5
MAY									
03...	1045	110	113	4.0					
09041000 MUDDY CREEK NEAR KREMMLING, CO (LAT 40 17 37N LONG 106 28 59W)									
OCT 1994					MAY 1995				
05...	1030	3.6	256	8.0	19...	0900	328	161	4.0
NOV					JUN				
08...	0945	5.7	238	2.0	20...	1000	284	100	6.5
APR 1995					AUG				
26...	1300	32	305	5.5	14...	1330	12	232	16.5
09046490 BLUE RIVER AT BLUE RIVER, CO (LAT 39 27 21N LONG 106 01 52W)									
OCT 1994					JUL 1995				
26...	1115	11	159	4.5	05...	1555	214	108	5.0
DEC					AUG				
14...	1030	7.6	185	0.5	02...	1500	150	82	10.0
FEB 1995					SEP				
16...	1430	4.2	187	1.0	07...	1000	32	136	12.5
MAY					12...	1240	51	120	10.0
03...	0955	9.7	183	2.0					
JUN									
05...	1630	110	140	5.0					
09046600 BLUE RIVER NEAR DILLON, CO (LAT 39 32 55N LONG 106 02 19W)									
OCT 1994					JUN 1995				
20...	1545	42	162	9.0	05...	1318	420	138	7.0
DEC					JUL				
14...	1300	23	161	3.5	05...	1745	517	110	8.0
FEB 1995					06...	1340	562	111	9.0
14...	1400	20	171	6.0	AUG				
MAR					03...	1345	310	104	11.0
29...	1145	22	--	5.0	SEP				
MAY					13...	0935	107	135	8.5
03...	1200	41	190	7.0					
09047500 SNAKE RIVER NEAR MONTEZUMA, CO (LAT 39 36 20N LONG 105 56 33W)									
OCT 1994					JUN 1995				
24...	1020	14	126	2.0	05...	1434	131	117	7.0
DEC					18...	1020	675	65	3.0
13...	1020	15	135	0.5	JUL				
FEB 1995					06...	1230	--	66	6.0
15...	1100	9.4	138	0.5	AUG				
APR					02...	1015	177	74	6.0
08...	1210	19	161	2.0	SEP				
MAY					11...	1509	56	101	8.0
01...	1510	12	190	4.5					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
09047700 KEYSTONE GULCH NEAR DILLON, CO (LAT 39 35 40N LONG 105 58 19W)									
OCT 1994					JUN 1995				
24...	1240	2.1	89	1.0	06...	1100	28	70	3.5
DEC					JUL				
13...	1240	3.4	104	0.0	03...	1110	41	56	3.5
FEB 1995					AUG				
15...	1435	2.2	87	0.0	01...	1615	12	68	11.0
MAY					SEP				
01...	1826	2.5	92	3.5	11...	1645	5.6	79	7.0
09050100 TENMILE CREEK BL NORTH TENMILE C, AT FRISCO, CO (LAT 39 34 37N LONG 106 06 33W)									
OCT 1994					JUN 1995				
24...	1530	20	464	4.5	06...	1717	542	275	7.0
DEC					JUL				
15...	1210	15	670	0.5	06...	0750	622	274	4.0
FEB 1995					AUG				
21...	1630	25	1190	0.5	03...	1025	212	212	7.5
MAR					SEP				
29...	1510	32	--	2.0	12...	1018	77	525	5.5
MAY									
02...	1525	35	790	8.0					
09050700 BLUE RIVER BELOW DILLON, CO (LAT 39 37 32N LONG 106 03 57W)									
OCT 1994					JUL 1995				
27...	1110	79	247	5.5	06...	0945	939	228	6.0
FEB 1995					AUG				
23...	1315	56	268	4.0	02...	1300	858	161	13.0
JUN					SEP				
06...	1450	1190	255	3.5	12...	1509	263	181	11.0
09051050 STRAIGHT CR BLW LASKEY GULCH NR DILLON, CO (LAT 39 38 23N LONG 106 02 23W)									
OCT 1994					JUN 1995				
27...	0930	5.5	125	0.5	06...	0906	39	132	2.0
DEC					JUL				
15...	1000	3.7	132	0.0	05...	1220	76	80	5.5
FEB 1995					12...	1520	155	56	10.0
21...	1400	6.0	351	0.0	AUG				
MAR					01...	1455	40	75	10.0
30...	1035	2.8	207	0.5	SEP				
MAY					11...	1246	17	102	7.0
02...	0930	4.5	352	1.5					
09057500 BLUE RIVER BELOW GREEN MOUNTAIN RESERVOIR, CO (LAT 39 52 49N LONG 106 20 00W)									
OCT 1994					JUL 1995				
18...	1500	391	204	10.5	12...	0845	3950	179	12.0
FEB 1995					AUG				
22...	1600	153	218	3.0	16...	1600	897	176	9.0
22...	1630	153	218	3.0					
09058500 PINEY RIVER BELOW PINEY LAKE, NEAR MINTURN, CO (LAT 39 42 29N LONG 106 25 38W)									
OCT 1994					MAY 1995				
13...	1240	11	46	6.5	30...	1600	35	52	3.0
DEC					JUN				
07...	1430	3.2	56	0.0	14...	1500	278	33	6.5
JAN 1995					22...	1345	227	26	7.0
25...	1035	2.2	64	0.0	JUL				
MAR					11...	1245	203	25	8.5
03...	0910	3.6	65	0.0	AUG				
APR					22...	1425	34	34	16.5
11...	0900	9.6	63	0.0					
09058610 DICKSON CREEK NEAR VAIL, CO (LAT 39 42 14N LONG 106 27 25W)									
OCT 1994					APR 1995				
13...	1445	1.3	394	8.0	11...	1610	1.0	382	0.0
DEC					JUN				
07...	1125	1.1	395	0.5	14...	1745	33	220	11.5
JAN 1995					JUL				
25...	1210	1.1	412	0.0	11...	1730	14	263	15.0
MAR					AUG				
03...	1015	0.78	403	0.0	24...	1240	3.8	350	13.5

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
09058700 FREEMAN CREEK NEAR MINTURN, CO (LAT 39 41 55N LONG 106 26 41W)									
OCT 1994					JUN 1995				
13...	1335	0.16	222	6.5	14...	1700	40	99	12.5
DEC					22...	1609	9.4	130	13.5
07...	1310	0.14	244	0.0	JUL				
APR 1995					11...	1545	3.6	172	18.0
11...	1510	0.15	225	0.0	AUG				
					29...	1530	0.43	235	16.5
09058800 EAST MEADOW CREEK NEAR MINTURN CO (LAT 39 43 54N LONG 106 25 36W)									
OCT 1994					JUN 1995				
13...	0945	0.92	51	4.0	22...	1030	34	33	2.0
APR 1995					JUL				
11...	1100	1.0	77	0.0	11...	0920	33	32	3.5
MAY					AUG				
31...	1030	5.0	65	0.5	22...	1045	2.4	53	8.5
09060770 ROCK CREEK AT MCCOY, CO (LAT 39 54 44N LONG 106 43 30W)									
OCT 1994					MAY 1995				
04...	1116	9.2	507	11.0	24...	--	282	--	--
NOV					JUN				
08...	1253	23	351	4.5	14...	1514	267	136	14.0
JAN 1995					JUL				
10...	1050	17	341	0.0	12...	1200	50	260	17.0
MAR					AUG				
16...	1040	26	327	6.5	18...	0920	18	462	13.0
APR									
26...	1055	43	363	4.5					
09063000 EAGLE RIVER AT RED CLIFF, CO (LAT 39 30 34N LONG 106 22 00W)									
OCT 1994					MAY 1995				
20...	1340	9.5	230	4.5	22...	1605	143	174	9.5
DEC					JUN				
02...	1215	9.5	236	0.0	13...	1815	443	131	9.5
JAN 1995					15...	1015	446	118	5.0
26...	1040	9.5	227	0.0	23...	1030	403	120	4.0
FEB					JUL				
27...	1530	11	223	2.0	13...	1320	181	149	9.5
MAR					AUG				
16...	1050	12	224	3.5	31...	0920	33	205	8.0
APR									
12...	1030	12	224	2.0					
09063200 WEARYMAN CREEK NEAR RED CLIFF, CO (LAT 39 31 14N LONG 106 19 06W)									
OCT 1994					MAY 1995				
20...	1050	1.7	289	0.5	23...	1620	8.3	292	3.5
DEC					JUN				
02...	0950	1.9	293	0.0	13...	1410	33	234	5.5
JAN 1995					JUL				
24...	0930	1.8	280	0.0	12...	1120	78	197	5.0
MAR					AUG				
02...	1025	1.8	296	0.5	31...	1405	7.8	272	7.5
APR									
12...	1300	1.8	302	1.0					
09063400 TURKEY CREEK NEAR RED CLIFF, CO (LAT 39 31 32N LONG 106 20 08W)									
OCT 1994					MAY 1995				
20...	1145	2.6	291	0.5	23...	1430	35	244	5.5
DEC					JUN				
02...	1035	3.4	297	0.0	13...	1445	126	208	6.0
JAN 1995					JUL				
24...	1025	2.9	299	0.0	12...	1520	197	169	8.5
MAR					AUG				
02...	1120	2.4	294	0.0	31...	1210	15	265	8.0
APR									
12...	1400	4.6	287	2.5					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
09063900 MISSOURI CREEK NEAR GOLD PARK, CO (LAT 39 23 25N LONG 106 28 10W)									
OCT 1994					MAY 1995				
19...	1440	2.7	33	2.0	23...	1145	13	30	0.5
DEC					JUN				
01...	1330	1.6	36	0.0	21...	1645	62	22	3.0
JAN 1995					JUL				
24...	1240	0.72	39	0.0	10...	1350	58	21	6.5
APR					AUG				
13...	0905	1.3	36	0.0	30...	1535	4.2	26	13.0
09064000 HOMESTAKE CREEK AT GOLD PARK, CO (LAT 39 24 20N LONG 106 25 58W)									
OCT 1994					MAY 1995				
19...	1545	9.6	33	3.5	23...	1015	71	32	2.0
DEC					JUN				
01...	1430	5.5	34	0.0	21...	1400	126	24	7.0
JAN 1995					JUL				
26...	0855	3.9	31	0.0	10...	1650	248	20	9.5
MAR					AUG				
02...	1400	6.3	35	0.0	30...	1130	23	27	12.5
APR									
13...	0945	9.1	35	0.5					
09064500 HOMESTAKE CREEK NEAR RED CLIFF, CO (LAT 39 28 24N LONG 106 22 02W)									
OCT 1994					MAY 1995				
19...	1700	12	38	5.5	22...	1740	78	35	10.0
DEC					JUN				
01...	1535	7.2	38	0.0	15...	1400	--	--	--
JAN 1995					16...	0930	444	25	5.0
24...	1515	4.6	40	0.0	JUL				
MAR					12...	1835	258	24	13.5
02...	1500	7.3	39	0.0	AUG				
APR					30...	0950	36	32	9.5
12...	1540	24	40	3.5					
09064600 EAGLE RIVER NEAR MINTURN, CO (LAT 39 33 14N LONG 106 24 07W)									
OCT 1994					MAY 1995				
04...	1610	33	181	9.0	22...	1415	379	122	7.0
NOV					JUN				
08...	1450	32	175	1.5	13...	1000	960	101	5.5
JAN 1995					JUL				
10...	1340	22	327	0.0	13...	0750	901	86	6.0
FEB					SEP				
28...	1005	29	189	--	01...	0900	97	138	9.5
APR									
12...	0915	45	188	1.0					
09065100 CROSS CREEK NEAR MINTURN, CO (LAT 39 34 05N LONG 106 24 45W)									
OCT 1994					MAY 1995				
05...	0912	10	57	6.5	23...	0830	121	33	4.5
NOV					JUN				
01...	1444	12	--	--	15...	1400	488	22	4.5
JAN 1995					JUL				
11...	0950	3.1	56	0.0	14...	0800	484	20	5.5
FEB					SEP				
28...	1140	5.1	74	0.0	01...	0740	50	33	10.5
APR									
12...	0815	12	55	0.5					
09065500 GORE CREEK AT UPPER STATION, NEAR MINTURN, CO (LAT 39 37 40N LONG 106 16 24W)									
OCT 1994					MAY 1995				
06...	1515	5.0	73	4.0	15...	1715	27	56	4.0
NOV					JUN				
07...	1330	4.9	73	1.5	19...	1510	174	33	6.0
JAN 1995					JUL				
04...	1530	3.0	74	0.0	10...	1430	222	30	7.0
FEB					AUG				
22...	1510	2.9	71	0.5	28...	1330	26	47	11.0
MAR					SEP				
28...	1110	4.4	--	1.0	26...	1245	7.1	59	4.0
APR									
17...	1600	8.1	64	2.0					

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
09066000 BLACK GORE CREEK NEAR MINTURN, CO (LAT 39 35 47N LONG 106 15 52W)									
OCT 1994					MAY 1995				
04...	1016	2.8	211	4.5	15...	1345	15	292	4.5
NOV					JUN				
07...	1505	2.8	213	0.0	19...	1230	163	92	5.0
JAN 1995					JUL				
04...	1255	4.5	--	0.0	12...	0815	99	80	5.0
FEB					AUG				
22...	1325	3.6	310	0.5	29...	1050	8.0	161	10.0
MAR					SEP				
27...	1456	4.1	382	1.0	27...	1045	4.7	177	4.0
APR									
17...	1325	5.3	363	2.0					
09066100 BIGHORN CREEK NEAR MINTURN, CO (LAT 39 38 24N LONG 106 17 34W)									
OCT 1994					MAY 1995				
06...	1325	2.0	70	3.0	16...	1126	12	54	2.5
NOV					JUN				
08...	1015	1.6	69	1.0	19...	1700	74	32	5.0
JAN 1995					JUL				
03...	1300	0.83	78	0.0	10...	1615	84	27	5.0
FEB					AUG				
21...	1555	0.62	79	0.5	28...	1515	6.1	45	10.5
MAR					SEP				
28...	0945	1.1	75	0.5	26...	1240	1.6	60	4.5
APR									
18...	1015	2.0	67	1.0					
09066150 PITKIN CREEK NEAR MINTURN, CO (LAT 39 38 37N LONG 106 18 07W)									
OCT 1994					MAY 1995				
06...	1130	3.7	79	3.0	16...	1245	11	84	3.0
NOV					JUN				
08...	1105	2.7	80	1.5	20...	1040	86	41	3.0
JAN 1995					JUL				
03...	1408	1.7	86	0.0	11...	1214	101	37	5.5
FEB					AUG				
21...	1320	1.9	88	1.0	28...	1635	8.5	57	10.5
MAR					SEP				
28...	1240	1.9	90	2.0	26...	1630	3.2	77	5.0
APR									
18...	1143	2.9	101	1.5					
09066200 BOOTH CREEK NEAR MINTURN, CO (LAT 39 39 02N LONG 106 19 16W)									
OCT 1994					MAY 1995				
04...	1525	1.4	126	8.0	16...	1421	16	115	4.5
NOV					JUN				
08...	1442	1.6	108	2.5	20...	1155	75	57	5.5
JAN 1995					JUL				
05...	1240	0.86	129	0.5	11...	1450	100	36	7.5
FEB					AUG				
21...	1410	0.89	124	2.0	29...	1245	5.5	78	12.0
MAR					SEP				
28...	1340	1.6	68	3.0	27...	1227	1.8	109	8.0
APR									
18...	1306	3.4	133	4.5					
09066300 MIDDLE CREEK NEAR MINTURN, CO (LAT 39 38 50N LONG 106 22 48W)									
OCT 1994					MAY 1995				
04...	1420	0.60	220	7.0	16...	1740	3.6	255	3.5
NOV					JUN				
08...	1310	0.44	217	1.0	20...	1530	50	48	5.0
JAN 1995					JUL				
03...	1510	0.27	200	0.0	12...	0925	53	102	4.0
FEB					AUG				
21...	1456	0.27	236	1.5	31...	1400	2.2	205	11.5
MAR					SEP				
27...	1655	0.37	243	1.5	27...	1600	1.4	218	7.0
APR									
18...	1659	0.77	234	2.5					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
09066310 GORE CREEK, LOWER STATION, AT VAIL, CO (LAT 39 38 28N LONG 106 23 37W)									
OCT 1994					MAY 1995				
04...	1212	19	278	8.0	16...	1610	116	196	7.0
NOV					JUN				
09...	1025	12	296	1.5	20...	1355	815	100	7.5
JAN 1995					JUL				
05...	1136	9.6	358	0.0	11...	1650	1030	77	9.5
FEB					AUG				
22...	1015	12	338	0.5	29...	1455	63	181	15.5
MAR					SEP				
28...	1507	21	0	5.0	27...	1442	22	265	10.0
APR									
18...	1455	30	269	8.0					
09066400 RED SANDSTONE CREEK NEAR MINTURN, CO (LAT 39 40 58N LONG 106 24 03W)									
OCT 1994					MAY 1995				
13...	1705	1.5	98	4.5	30...	1400	14	66	1.5
DEC					JUN				
07...	1530	1.4	93	0.0	15...	1820	185	40	3.0
JAN 1995					JUL				
25...	1320	1.2	95	0.0	12...	0800	51	45	4.0
MAR					AUG				
03...	1245	1.0	93	0.5	24...	0925	3.4	89	8.0
APR									
10...	1500	1.8	83	1.0					
09066980 LAKE CREEK NEAR EDWARDS, CO (LAT 39 38 51N LONG 106 36 31W)									
OCT 1994					JUN 1995				
14...	0930	24	498	7.5	14...	0900	425	143	6.0
DEC					JUL				
08...	1045	13	432	0.5	14...	1155	476	105	6.5
JAN 1995					25...	1550	196	105	11.0
23...	1505	10	470	0.0	SEP				
APR					01...	1035	65	230	10.0
13...	1210	13	449	7.0					
MAY									
24...	1030	80	310	6.0					
09067000 BEAVER CREEK AT AVON, CO (LAT 39 37 47N LONG 106 31 20W)									
OCT 1994					MAY 1995				
05...	1036	4.0	296	7.5	24...	0845	25	221	3.5
NOV					JUN				
08...	1615	2.9	329	2.5	12...	1615	52	138	9.0
JAN 1995					JUL				
09...	1530	1.7	409	0.5	14...	0955	102	67	7.0
FEB					AUG				
28...	1310	2.9	394	2.0	25...	0845	20	121	10.0
APR									
13...	1615	5.2	426	8.5					
09070000 EAGLE RIVER BELOW GYPSUM, CO (LAT 39 38 58N LONG 106 57 11W)									
OCT 1994					MAY 1995				
03...	1455	218	881	12.0	25...	1400	1230	288	8.0
NOV					JUN				
09...	1053	206	901	4.5	01...	1105	1220	327	9.5
JAN 1995					22...	0840	5200	161	7.0
09...	1300	168	940	0.5	JUL				
MAR					11...	1450	4050	149	11.0
20...	1340	211	800	7.0	AUG				
APR					17...	1710	566	437	18.5
26...	1300	238	664	8.0					
09070500 COLORADO RIVER NEAR DOTSERO, CO (LAT 39 38 40N LONG 107 04 40W)									
OCT 1994					MAY 1995				
03...	1120	1150	527	11.0	25...	1430	4100	282	9.5
NOV					JUN				
09...	1225	818	590	5.5	15...	1630	13300	159	11.0
FEB 1995					JUL				
09...	1230	703	541	2.5	11...	1030	10100	177	11.0
MAR					AUG				
20...	1210	--	672	4.0	17...	1415	2420	374	17.0
24...	0835	1040	550	5.5	23...	1000	--	--	--
APR					23...	1100	--	--	--
26...	1430	1180	445	10.5					

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
09071300 GRIZZLY CREEK NEAR GLENWOOD SPRINGS, CO (LAT 39 43 04N LONG 107 18 51W)									
OCT 1994					JUL 1995				
12...	1550	2.3	--	9.5	13...	1420	109	183	11.5
APR 1995					AUG				
05...	1130	0.13	353	0.5	17...	0920	3.3	258	9.0
JUN									
16...	1110	238	174	1.0					
09073300 ROARING FORK RIVER AB DIFFICULT C NR ASPEN, CO (LAT 39 08 28N LONG 106 46 25W)									
OCT 1994					MAY 1995				
12...	0745	16	77	3.0	24...	1415	92	49	6.0
NOV					JUN				
29...	0930	35	--	0.0	15...	1955	428	33	5.0
JAN 1995					JUL				
18...	0805	8.8	49	3.5	11...	1715	1500	29	8.0
MAR					AUG				
22...	1255	19	78	3.0	28...	1200	63	50	11.0
APR									
25...	0845	17	78	1.0					
09073400 ROARING FORK RIVER NEAR ASPEN, CO (LAT 39 10 48N LONG 106 48 05W)									
OCT 1994					MAY 1995				
12...	0930	36	86	3.0	24...	1655	175	58	8.0
NOV					JUN				
29...	1200	31	--	0.0	16...	1135	1130	35	5.5
JAN 1995					22...	1825	861	36	8.5
17...	1540	28	115	3.5	JUL				
MAR					12...	1110	1910	29	6.0
22...	0900	36	92	2.0	AUG				
APR					28...	1630	99	62	15.0
25...	1115	33	93	3.0					
09074000 HUNTER CREEK NEAR ASPEN, CO (LAT 39 12 21N LONG 106 47 49W)									
OCT 1994					MAY 1995				
12...	1600	15	63	7.5	24...	1000	--	45	2.5
NOV					JUN				
29...	1417	5.1	--	0.0	15...	1510	256	31	7.0
JAN 1995					22...	1436	232	29	7.5
18...	--	4.3	--	--	JUL				
FEB					12...	1310	488	20	7.0
17...	1200	6.9	78	0.0	AUG				
APR					29...	1140	52	41	11.5
25...	1205	8.6	65	3.0					
09080400 FRYINGPAN RIVER NEAR RUEDI, CO (LAT 39 21 56N LONG 106 49 30W)									
OCT 1994					MAY 1995				
13...	0837	176	226	7.0	25...	1200	271	258	4.5
NOV					JUL				
28...	1445	102	211	6.0	13...	1010	1030	148	8.0
MAR 1995					AUG				
22...	1447	69	284	4.5	29...	1715	146	150	9.5
APR									
25...	1405	101	282	4.0					
09081600 CRYSTAL RIVER AB AVALANCHE C, NEAR REDSTONE, CO (LAT 39 13 56N LONG 107 13 36W)									
OCT 1994					JUN 1995				
13...	1145	101	522	7.5	16...	1550	2530	155	9.0
NOV					22...	1026	2280	157	5.0
28...	1200	66	671	2.0	JUL				
FEB 1995					12...	1835	2310	144	10.5
24...	1125	72	674	3.5	AUG				
APR					30...	0956	357	280	10.0
27...	0810	148	490	4.0					
MAY									
25...	1630	927	249	7.0					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
09085100 COLORADO RIVER BELOW GLENWOOD SPRINGS, CO (LAT 39 33 18N LONG 107 20 13W)									
OCT 1994					MAY 1995				
14...	0925	--	850	8.5	25...	1120	7250	328	8.0
NOV					JUN				
14...	1125	--	770	4.0	15...	1315	21300	201	8.5
DEC					17...	1030	23400	192	7.5
01...	1000	1720	--	--	19...	0645	20500	243	9.0
28...	1040	1250	838	0.0	JUL				
MAR 1995					11...	0735	19900	182	8.5
23...	0800	--	669	4.0	AUG				
26...	0945	1610	715	4.0	10...	1540	5600	411	13.0
APR									
24...	1435	1820	606	10.0					
09086000 WEST ELK CREEK NEAR NEW CASTLE, CO (LAT 39 39 59N LONG 107 37 35W)									
OCT 1994					MAY 1995				
20...	1000	0.64	828	4.0	23...	0958	4.5	505	6.0
NOV					JUN				
25...	1350	0.40	--	--	13...	1800	3.5	672	12.5
JAN 1995					JUL				
17...	1055	0.13	872	--	10...	--	2.6	--	--
MAR					AUG				
21...	1410	0.41	787	6.0	21...	1500	2.6	725	16.5
29...	1030	0.38	765	2.0					
APR									
20...	1210	0.68	811	10.0					
09086470 MAIN ELK CREEK NEAR NEW CASTLE, CO (LAT 39 40 41N LONG 107 34 21W)									
OCT 1994					APR 1995				
20...	1043	12	367	5.0	24...	1100	21	355	6.0
NOV					MAY				
25...	1210	15	365	2.5	22...	1407	359	343	8.5
DEC					JUN				
29...	1340	10	364	2.0	13...	1543	--	293	10.0
JAN 1995					21...	1005	873	259	5.5
17...	1145	7.4	400	4.0	JUL				
FEB					10...	1243	353	247	9.5
16...	1445	7.3	373	2.5	AUG				
MAR					21...	1306	33	343	12.0
01...	1435	9.5	359	3.5					
09086970 EAST ELK CREEK AB BOILER CREEK NR NEW CASTLE, CO (LAT 39 40 05N LONG 107 31 28W)									
OCT 1994					MAY 1995				
20...	1315	8.8	266	5.0	23...	1149	105	225	4.5
NOV					30...	1015	54	232	3.0
23...	1510	6.7	271	1.5	JUN				
JAN 1995					13...	1310	302	198	6.5
20...	--	4.9	--	--	21...	1251	399	185	6.5
MAR					JUL				
21...	1127	8.7	270	3.0	10...	1017	382	176	6.5
APR					AUG				
24...	1240	9.9	266	2.0	21...	1110	19	262	10.5
09089500 WEST DIVIDE CREEK NEAR RAVEN, CO (LAT 39 19 52N LONG 107 34 46W)									
OCT 1994					MAY 1995				
11...	1345	2.5	458	9.5	18...	1210	298	229	7.0
NOV					22...	0856	470	206	4.0
23...	1145	2.8	455	0.0	JUN				
JAN 1995					08...	1145	502	192	6.0
13...	1055	3.1	439	0.5	13...	1001	438	178	6.0
FEB					JUL				
16...	1132	3.8	443	0.0	06...	1053	147	203	8.5
APR					AUG				
28...	1025	50	317	4.0	01...	1250	37	225	14.5
09093700 COLORADO RIVER NEAR DE BEQUE, CO (LAT 39 21 45N LONG 108 09 07W)									
NOV 1994					JUN 1995				
11...	1215	1610	1170	8.5	22...	1250	23400	252	12.5
DEC					JUL				
20...	1350	1300	1260	2.5	27...	1215	11700	335	15.5
MAR 1995					AUG				
13...	1405	1590	1220	10.0	29...	1240	4050	646	19.5
MAY									
04...	1230	2790	777	11.0					

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
09107000 TAYLOR RIVER AT TAYLOR PARK, CO (LAT 38 50 59N LONG 106 34 21W)									
OCT 1994					JUN 1995				
18...	1030	63	116	2.5	13...	1900	761	60	12.0
NOV					JUL				
29...	1200	53	123	1.0	13...	0925	1050	60	6.0
MAR 1995					AUG				
22...	1030	35	118	1.5	29...	0915	203	100	9.5
MAY									
23...	0845	441	67	1.0					
09109000 TAYLOR RIVER BELOW TAYLOR PARK RESERVOIR, CO (LAT 38 49 06N LONG 106 36 31W)									
OCT 1994					MAY 1995				
18...	1210	97	97	9.5	23...	1205	623	104	3.0
NOV					JUN				
29...	1330	104	106	3.0	13...	1915	430	87	4.0
JAN 1995					JUL				
25...	1240	95	105	3.5	13...	1220	1370	67	7.0
MAR					AUG				
22...	1200	100	--	4.5	29...	1125	345	71	10.0
09112200 EAST RIVER BL CEMENT CREEK NR CRESTED BUTTE, CO (LAT 38 47 03N LONG 106 52 13W)									
OCT 1994					JUN 1995				
19...	1330	90	292	7.0	13...	1230	2570	153	8.5
28...	0805	102	278	2.5	16...	1210	3030	140	7.0
DEC					22...	1320	3020	141	8.5
20...	1210	100	310	0.5	27...	1557	--	151	10.5
FEB 1995					JUL				
22...	1125	56	330	2.5	12...	1415	2360	145	11.5
MAR					AUG				
10...	0920	120	296	0.5	09...	1500	739	179	10.0
25...	1235	85	276	3.0	25...	0955	455	207	10.0
APR					SEP				
12...	1215	134	267	5.0	20...	1230	142	278	8.5
17...	1450	158	263	6.0					
MAY									
26...	0950	1090	192	2.0					
09113100 CASTLE CREEK ABOVE MOUTH NEAR BALDWIN, CO (LAT 38 46 09N LONG 107 05 02W)									
OCT 1994					JUN 1995				
20...	1450	7.6	83	3.0	01...	1140	72	72	4.5
DEC					14...	1630	356	47	8.0
21...	1035	5.1	58	0.5	21...	1525	228	50	11.0
FEB 1995					JUL				
23...	1000	5.3	60	0.0	11...	1735	265	41	12.0
					AUG				
					28...	1705	52	63	15.0
09115500 TOMICHI CREEK AT SARGENTS, CO (LAT 38 23 42N LONG 106 25 19W)									
OCT 1994					JUN 1995				
20...	0950	27	161	1.0	01...	1000	226	130	4.5
DEC					15...	0945	706	98	6.0
21...	1605	27	163	0.5	JUL				
FEB 1995					10...	1725	260	102	15.0
21...	1350	18	159	0.0	AUG				
APR					30...	0850	49	156	10.5
11...	1540	62	178	3.5					
09118450 COCHETOPA CREEK BELOW ROCK CREEK NR PARLIN, CO (LAT 38 20 08N LONG 106 46 18W)									
OCT 1994					JUN 1995				
20...	1155	20	184	2.0	15...	1110	163	163	11.5
DEC					22...	0829	218	135	10.0
21...	1350	19	243	0.5	JUL				
FEB 1995					11...	0850	157	151	11.0
21...	1620	19	251	0.0	AUG				
MAY					30...	1055	116	144	12.0
18...	1130	93	165	6.0					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
09124500 LAKE FORK AT GATEVIEW, CO (LAT 38 17 56N LONG 107 13 46W)									
OCT 1994					MAY 1995				
17...	1545	117	162	8.0	31...	1145	280	149	8.0
NOV					JUN				
30...	1155	44	185	0.5	16...	1510	2020	100	10.5
JAN 1995					JUL				
24...	1445	42	175	0.0	14...	0710	1410	81	7.5
MAR					AUG				
21...	1445	92	167	0.5	31...	0820	337	129	11.5
09126000 CIMARRON RIVER NEAR CIMARRON, CO (LAT 38 15 45N LONG 107 32 39W)									
OCT 1994					MAY 1995				
18...	1330	42	159	6.5	31...	1250	90	101	6.5
DEC					JUN				
14...	1500	15	147	2.0	14...	1445	1020	84	6.5
FEB 1995					15...	1020	1060	83	5.5
01...	1148	15	132	1.5	JUL				
MAR					19...	1310	565	71	8.5
16...	1045	18	152	2.5	AUG				
APR					30...	1315	152	93	12.5
10...	1420	23	126	1.5					
09128500 SMITH FORK NEAR CRAWFORD, CO (LAT 38 43 40N LONG 107 30 22W)									
OCT 1994									
19...	1500	7.5	166	8.5					
09132500 NORTH FORK GUNNISON RIVER NEAR SOMERSET, CO (LAT 38 55 33N LONG 107 26 01W)									
OCT 1994					MAY 1995				
19...	1050	83	162	6.0	23...	1740	2950	115	7.5
DEC					JUN				
13...	1100	112	164	0.0	14...	1425	4190	98	10.5
JAN 1995					JUL				
23...	1335	60	278	0.0	13...	1435	2200	83	13.0
MAR					AUG				
14...	1035	359	242	3.5	30...	1600	271	131	17.0
APR					SEP				
28...	1130	782	188	6.5	08...	1152	160	204	5.5
09134000 MINNESOTA CREEK NEAR PAONIA, CO (LAT 38 52 13N LONG 107 30 06W)									
OCT 1994					JUN 1995				
19...	1245	3.5	442	7.5	06...	1410	176	200	10.0
DEC					21...	1725	179	151	11.0
13...	1440	3.7	511	0.0	JUL				
JAN 1995					13...	1730	104	140	11.0
23...	1525	4.4	579	0.0	AUG				
MAR					31...	0935	22	301	14.0
14...	1305	7.1	1130	8.5	SEP				
MAY					27...	1005	6.6	456	8.5
23...	1410	143	248	9.0					
09135900 LEROUX CREEK AT HOTCHKISS, CO (LAT 38 47 53N LONG 107 43 53W)									
OCT 1994					MAY 1995				
19...	1700	11	1360	13.5	03...	1500	5.1	1330	14.5
DEC					23...	0915	274	228	4.5
15...	1230	6.1	1370	5.5	JUN				
JAN 1995					06...	1535	353	149	9.5
26...	1300	4.0	1370	7.0	15...	0710	887	156	6.0
MAR					JUL				
14...	1535	4.0	1420	14.0	13...	1945	16	969	18.0
					AUG				
					31...	1700	8.2	1240	16.5
09143000 SURFACE CREEK NEAR CEDAREEDGE, CO (LAT 38 59 05N LONG 107 51 13W)									
OCT 1994					MAY 1995				
20...	1130	8.7	101	1.5	04...	1130	75	115	1.0
DEC					22...	1410	172	88	6.0
14...	1125	4.2	146	0.0	JUN				
FEB 1995					21...	1215	364	63	5.5
02...	0930	3.0	154	0.0	JUL				
17...	1200	2.3	144	0.0	14...	0905	191	61	10.0
MAR					SEP				
17...	0930	7.9	150	0.0	01...	0905	83	62	12.5

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
09143500 SURFACE CREEK AT CEDAREDGE, CO (LAT 38 54 06N LONG 107 55 14W)									
OCT 1994					MAY 1995				
20...	1255	10	132	4.5	04...	1305	78	146	5.5
DEC					22...	1725	258	102	9.0
15...	1000	4.0	177	0.0	JUL				
JAN 1995					14...	1130	73	69	12.0
26...	1400	3.2	177	0.0	SEP				
FEB					01...	1336	32	73	17.5
16...	1340	5.7	183	1.0					
MAR									
17...	1125	9.4	185	5.5					
09144250 GUNNISON RIVER AT DELTA, CO (LAT 38 45 01N LONG 108 04 06W)									
OCT 1994					JUN 1995				
07...	1210	864	1100	12.0	21...	1215	11800	260	11.0
NOV					JUL				
29...	1210	1010	639	1.5	26...	1520	6150	385	15.5
JAN 1995					AUG				
12...	1152	856	692	3.5	28...	1155	1560	685	18.5
APR					SEP				
12...	1230	2580	438	7.0	21...	1154	958	873	13.5
MAY									
26...	1335	8420	318	8.5					
09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO (LAT 38 11 02N LONG 107 44 43W)									
OCT 1994					JUN 1995				
17...	1500	96	707	8.5	01...	1125	232	420	10.0
DEC					15...	1600	970	210	12.0
15...	1140	46	837	2.0	21...	1057	943	235	8.5
JAN 1995					JUL				
24...	1315	56	903	3.5	20...	1310	677	286	12.0
MAR					AUG				
15...	0940	84	747	6.0	31...	1430	227	462	18.5
23...	1045	95	690	7.0					
APR									
27...	1225	100	666	8.5					
09147000 DALLAS CREEK NEAR RIDGWAY, CO (LAT 38 10 40N LONG 107 45 28W)									
OCT 1994					JUN 1995				
17...	1330	30	629	5.5	01...	0836	65	467	7.5
DEC					15...	1308	107	359	11.5
15...	0900	14	666	0.0	JUL				
JAN 1995					20...	0932	212	320	10.0
24...	0815	21	597	0.0	AUG				
MAR					31...	1146	77	367	13.0
13...	1540	24	693	1.0					
APR									
27...	0910	73	371	3.5					
09147025 UNCOMPAHGRE RIVER BELOW RIDGWAY RESERVOIR, CO (LAT 38 14 17N LONG 107 45 31W)									
OCT 1994					JUN 1995				
18...	1650	122	578	12.0	01...	1240	450	579	8.5
DEC					16...	0820	607	526	9.0
16...	1020	44	608	5.0	JUL				
JAN 1995					03...	0958	846	353	9.5
24...	1530	46	667	4.5	AUG				
MAR					31...	1523	451	320	12.0
15...	1303	149	704	5.5	SEP				
APR					20...	--	--	--	--
26...	1010	337	630	6.0					
09147500 UNCOMPAHGRE RIVER AT COLONA, CO (LAT 38 19 53N LONG 107 46 44W)									
OCT 1994					MAY 1995				
17...	1710	132	625	11.0	18...	1300	798	532	11.5
DEC					JUN				
16...	1240	53	655	1.0	02...	0955	770	441	8.5
19...	0920	50	672	0.5	16...	1205	1350	335	10.0
JAN 1995					27...	1415	1000	325	13.0
19...	0945	48	689	0.0	JUL				
26...	0930	57	697	2.5	19...	1720	1160	302	12.5
FEB					24...	1400	760	315	14.5
15...	1610	63	677	7.5	AUG				
MAR					18...	1415	400	361	18.0
08...	1335	156	669	8.0	SEP				
13...	1335	166	708	9.5	01...	0950	421	374	12.5
APR					27...	1415	191	497	17.5
27...	1530	341	625	8.5					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
09149500 UNCOMPAHGRE RIVER AT DELTA, CO (LAT 38 44 31N LONG 108 04 49W)									
OCT 1994					APR 1995				
07...	1335	389	1420	12.5	12...	1113	350	982	7.5
NOV					25...	1305	166	1220	12.0
29...	1350	168	1850	2.0	MAY				
DEC					19...	1200	1420	767	12.5
19...	1250	188	1800	2.0	JUN				
JAN 1995					21...	1340	1140	790	13.0
12...	1353	182	1860	5.5	29...	1115	454	1060	16.0
18...	0910	170	1820	0.0	JUL				
FEB					26...	1202	341	1340	18.0
16...	1230	166	1830	5.5	27...	1340	334	1340	21.0
MAR					AUG				
08...	1030	287	1630	4.0	17...	1330	322	1290	21.5
09...	1140	261	1600	6.0	28...	1425	528	1160	20.5
					SEP				
					26...	1445	616	1090	16.0
09153290 REED WASH NEAR MACK, CO (LAT 39 12 41N LONG 108 48 11W)									
OCT 1994					JUN 1995				
20...	1320	81	1800	10.0	15...	1023	65	1220	17.5
NOV					AUG				
18...	1530	11	4550	9.0	04...	0945	80	1280	17.5
FEB 1995					SEP				
17...	1555	4.0	4670	9.0	26...	1452	55	2050	14.0
MAY									
05...	1207	67	1330	11.5					
09165000 DOLORES RIVER BELOW RICO, CO (LAT 37 38 20N LONG 108 03 35W)									
OCT 1994					JUN 1995				
06...	1025	58	320	3.5	14...	1000	1210	116	4.0
FEB 1995					29...	0900	891	118	4.5
21...	1340	32	441	10.0	JUL				
APR					26...	0955	196	195	6.5
10...	1200	114	299	2.0	AUG				
26...	1155	67	350	5.5	17...	1415	85	301	18.0
MAY									
24...	0840	453	166	2.5					
09166500 DOLORES RIVER AT DOLORES, CO (LAT 37 28 21N LONG 108 29 49W)									
OCT 1994					JUN 1995				
06...	1200	117	321	9.5	14...	0710	4220	125	5.0
FEB 1995					29...	1150	2220	129	8.0
21...	1145	72	445	1.0	JUL				
APR					26...	1345	464	216	16.0
10...	1420	624	250	6.5	SEP				
26...	1410	587	251	10.5	14...	1420	169	307	17.0
MAY									
17...	1215	2110	179	4.0					
09166950 LOST CANYON CREEK NEAR DOLORES, CO. (LAT 37 26 45N LONG 108 28 03W)									
JAN 1995					JUN 1995				
27...	1140	0.54	284	0.0	29...	1330	0.87	402	21.5
APR					JUL				
10...	1540	133	72	5.5	26...	1420	0.32	651	25.0
26...	1525	113	88	9.0	SEP				
MAY					14...	1540	0.10	607	22.0
17...	1400	287	49	4.0					
09172500 SAN MIGUEL RIVER NEAR PLACERVILLE, CO (LAT 38 02 05N LONG 108 07 15W)									
OCT 1994					MAY 1995				
06...	0845	127	364	6.0	23...	1500	755	289	8.0
NOV					JUN				
17...	1135	103	383	0.5	16...	0650	1840	182	5.5
FEB 1995					29...	0725	1450	185	6.5
21...	1630	84	407	6.0	JUL				
APR					11...	1800	1320	178	12.5
07...	0810	204	372	2.0	AUG				
26...	1000	220	372	4.5	17...	1300	331	269	14.0

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
09174600 SAN MIGUEL RIVER AT BROOKS BRIDGE NEAR NUCLA CO (LAT 38 14 39N LONG 108 30 05W)									
MAR 1995					JUN 1995				
31...	1020	203	440	2.5	15...	0805	2140	184	9.5
APR 06...	0750	793	228	4.5	28...	1435	1420	203	13.0
25...	1815	456	300	16.5	JUL 12...	1600	1370	178	13.5
MAY 17...	0825	1790	225	7.0	25...	1635	650	215	16.5
23...	0800	1650	232	8.0	AUG 17...	1100	240	297	15.5
09237450 YAMPA RIVER ABOVE STAGECOACH RESERVIOR, CO (LAT 40 16 09N LONG 106 52 49W)									
OCT 1994					MAY 1995				
03...	1350	33	485	10.5	03...	0845	108	648	5.0
NOV 30...	0845	32	462	0.0	31...	0835	123	544	7.5
FEB 1995					JUN 18...	1000	270	383	8.5
07...	1205	28	405	0.5	JUL 05...	1020	188	472	11.5
MAR 15...	0935	46	535	3.0	SEP 18...	1350	72	347	13.0
20...	1300	48	600	3.5					
09237500 YAMPA RIVER BELOW STAGECOACH RESERVOIR, CO (LAT 40 17 15N LONG 106 49 33W)									
OCT 1994					JUN 1995				
03...	1300	60	445	13.0	15...	1050	124	465	10.0
NOV 30...	0930	53	452	3.0	18...	1120	205	450	12.5
JAN 1995					JUL 05...	1115	190	442	14.5
09...	0950	48	463	3.5	SEP 06...	1100	91	402	18.0
FEB 23...	1205	48	464	4.0	26...	0930	92	404	13.0
MAY 24...	1255	75	468	7.5					
09238705 LONG LAKE INLET NEAR BUFFALO PASS, CO (LAT 40 28 25N LONG 106 40 46W)									
OCT 1994					JUL 1995				
03...	0830	0.05	47	2.0	13...	0610	13	14	2.0
NOV 25...	0950	0.06	45	0.0	AUG 23...	1005	0.18	31	10.0
JAN 1995					SEP 07...	0910	0.09	41	8.5
25...	0940	0.08	42	0.0					
JUN 19...	1235	8.0	19	0.0					
09238710 FISH CRK TRIB BEL LONG LK, NR BUFFLAO PASS, CO (LAT 40 28 36N LONG 106 41 13W)									
NOV 1994					JUL 1995				
25...	1015	0.02	17	0.0	13...	0635	22	15	9.0
JAN 1995					AUG 23...	1030	0.18	17	18.5
25...	1030	0.02	17	0.0	SEP 07...	0940	0.00	18	13.0
APR 06...	0920	0.04	18	0.5					
JUN 19...	1300	3.1	18	0.0					
09238750 MIDDLE FK FISH CRK NR BUFFALO PASS, CO (LAT 40 29 54N LONG 106 41 30W)									
OCT 1994					JUN 1995				
03...	1015	0.26	42	3.0	19...	1140	24	3	2.0
NOV 25...	1140	0.34	26	0.0	JUL 13...	0810	21	17	2.0
JAN 1995					AUG 23...	1245	0.35	27	14.0
25...	1225	0.18	34	0.0	SEP 07...	1105	0.21	33	10.5
APR 06...	1110	0.24	31	0.0					
09238770 GRANITE CRK NR BUFFALO PASS, CO (LAT 40 29 35N LONG 106 41 31W)									
OCT 1994					JUL 1995				
03...	0945	0.69	44	3.5	13...	0700	53	12	2.0
NOV 25...	1045	0.63	41	0.0	AUG 23...	1220	1.5	29	13.5
JAN 1995					SEP 07...	1030	0.85	38	10.5
25...	1145	0.49	44	0.0					
APR 06...	1000	0.42	43	0.5					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
09238900 FISH CR AT UPPER STA NR STEAMBOAT SPRINGS, CO (LAT 40 28 30N LONG 106 47 11W)									
OCT 1994					JUN 1995				
03...	1125	3.6	41	7.5	05...	1330	416	20	4.0
JAN 1995					15...	1330	497	17	4.0
09...	1145	4.0	34	0.0	JUL				
MAR					05...	1300	371	14	7.0
22...	1515	13	40	1.5					
09239500 YAMPA RIVER AT STEAMBOAT SPRINGS, CO (LAT 40 29 01N LONG 106 49 54W)									
OCT 1994					MAY 1995				
03...	1510	75	274	12.0	03...	1520	715	212	6.5
NOV					JUN				
30...	1050	83	308	0.0	07...	0720	2910	68	6.5
JAN 1995					JUL				
09...	1245	90	328	0.5	06...	0730	1690	74	8.5
FEB					SEP				
23...	1055	69	314	0.5	06...	1430	110	271	21.5
MAR					26...	1040	125	289	9.5
22...	1615	163	275	5.0					
09243700 MIDDLE CREEK NEAR OAK CREEK, CO (LAT 40 23 08N LONG 106 59 33W)									
OCT 1994					MAY 1995				
04...	1025	3.9	392	10.0	04...	0930	20	486	5.5
DEC					31...	1055	27	456	10.5
01...	0930	0.20	701	0.0	JUN				
JAN 1995					14...	1550	12	505	20.5
10...	0955	0.37	935	0.0	JUL				
FEB					06...	1050	5.3	537	17.0
22...	1040	0.31	913	0.0	SEP				
APR					06...	0840	0.47	641	12.5
13...	1200	1.2	690	11.5					
09243800 FOIDEL CREEK NEAR OAK CREEK, CO (LAT 40 20 45N LONG 107 05 04W)									
OCT 1994					MAY 1995				
04...	1125	0.38	3180	11.0	04...	1055	8.0	1200	9.0
DEC					31...	1315	7.3	2110	15.5
01...	1055	0.81	3350	0.0	JUL				
JAN 1995					06...	1155	2.9	2960	18.5
10...	1115	0.61	3330	0.0	SEP				
FEB					06...	0935	0.70	3280	13.5
22...	1255	0.26	3190	0.5					
APR									
13...	1305	0.51	2580	14.0					
09243900 FOIDEL CREEK AT MOUTH, NEAR OAK CREEK, CO (LAT 40 23 25N LONG 106 59 39W)									
OCT 1994					APR 1995				
04...	0935	0.47	3570	9.5	13...	1120	1.3	2680	8.5
DEC					MAY				
01...	0830	0.53	3290	0.0	04...	0835	17	1570	5.5
JAN 1995					31...	1220	11	1870	15.0
10...	0840	0.64	3150	0.0	JUL				
FEB					06...	0950	3.6	2520	14.5
17...	1100	1.2	2880	0.0	SEP				
22...	1135	0.88	2870	0.0	06...	0800	0.38	3200	14.0
09253000 LITTLE SNAKE RIVER NEAR SLATER, CO (LAT 40 59 58N LONG 107 08 34W)									
OCT 1994					JUN 1995				
28...	1022	23	159	5.5	14...	1258	2240	60	10.0
FEB 1995					JUL				
23...	1730	43	175	0.0	18...	1258	378	64	12.5
APR					AUG				
17...	1015	173	130	2.0	29...	1310	41	153	21.0
MAY					SEP				
25...	1104	1190	58	7.0	26...	1155	38	171	14.5

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
09255000 SLATER FORK NEAR SLATER, CO (LAT 40 58 54N LONG 107 22 58W)									
OCT 1994					JUN 1995				
28...	1155	16	214	5.5	14...	1102	777	104	9.0
DEC					15...	1120	806	102	12.0
19...	1310	17	220	0.0	JUL				
FEB 1995					18...	1109	97	117	14.0
24...	0750	18	229	0.0	AUG				
APR					29...	1420	12	277	22.5
17...	0832	88	200	5.0	SEP				
MAY					26...	1035	16	253	11.0
25...	1355	584	118	6.5					
09260000 LITTLE SNAKE RIVER NEAR LILY, CO (LAT 40 32 50N LONG 108 25 25W)									
NOV 1994					MAY 1995				
25...	1017	82	742	0.5	01...	1021	513	513	8.0
JAN 1995					17...	0940	4330	254	10.0
30...	1425	116	555	0.0	JUN				
FEB					08...	1333	5840	150	15.0
28...	1049	495	488	5.5	12...	1045	--	175	16.0
MAR					JUL				
31...	1105	228	519	3.5	17...	1020	1370	171	22.0
					AUG				
					31...	1230	38	1010	21.0
09303300 SOUTH FORK WHITE RIVER AT BUDGES RESORT, CO (LAT 39 50 36N LONG 107 20 03W)									
OCT 1994					JUN 1995				
12...	1335	44	156	7.5	16...	0930	739	145	3.5
APR 1995					JUL				
05...	0815	38	144	0.5	13...	1030	452	100	5.5
09303400 SOUTH FORK WHITE RIVER NEAR BUDGES RESORT, CO (LAT 39 51 51N LONG 107 32 00W)									
OCT 1994					MAY 1995				
11...	1245	74	207	6.5	23...	1305	392	213	6.0
DEC					JUN				
02...	0945	63	201	0.5	13...	0715	1120	194	4.0
JAN 1995					17...	1200	1520	169	4.5
19...	1150	60	204	0.5	SEP				
FEB					01...	1105	117	207	11.0
21...	1025	90	195	0.5					
09304500 WHITE RIVER NEAR MEEKER, CO (LAT 40 02 01N LONG 107 51 42W)									
OCT 1994					APR 1995				
25...	1525	283	458	7.5	29...	1226	399	519	8.5
NOV					MAY				
16...	1300	300	498	1.0	23...	0845	2320	249	7.5
JAN 1995					JUN				
27...	1400	300	456	2.5	18...	1443	4050	224	10.0
FEB					AUG				
09...	1050	286	448	2.5	07...	0850	565	398	13.5
MAR					SEP				
07...	1800	193	583	5.0	27...	1040	382	473	9.5
09339900 EAST FK SAN JUAN RIV ABV SAND CREEK, NR PAGOSA SPGS, CO (LAT 37 23 23N LONG 106 50 26W)									
DEC 1994					JUL 1995				
22...	1150	12	156	0.5	12...	1400	457	72	12.0
MAR 1995					AUG				
17...	1110	58	128	1.5	10...	1450	72	107	18.5
MAY					SEP				
23...	1315	545	88	7.0	12...	1200	49	133	11.0
JUN									
14...	1125	731	77	7.5					
18...	0940	878	77	4.5					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
09342500 SAN JUAN RIVER AT PAGOSA SPRINGS, CO (LAT 37 15 58N LONG 107 00 37W)									
NOV 1994					JUN 1995				
29...	1315	53	219	1.0	14...	0845	3170	54	4.5
DEC					17...	1820	4960	56	5.5
08...	1005	107	162	1.0	JUL				
FEB 1995					12...	1145	1910	53	8.5
08...	1115	107	154	0.0	20...	1030	1210	60	9.0
MAR					AUG				
20...	1000	575	137	2.0	10...	1045	205	103	15.0
APR					SEP				
24...	1015	340	215	4.0	12...	0935	161	120	9.5
MAY									
23...	1110	2220	73	5.5					
09346000 NAVAJO RIVER AT EDITH, CO (LAT 37 00 10N LONG 106 54 25W)									
NOV 1994					JUN 1995				
29...	1035	29	276	0.0	18...	1430	380	106	9.5
FEB 1995					28...	1540	649	92	11.5
08...	1415	53	247	1.5	AUG				
MAR					10...	1235	111	187	18.0
20...	1330	312	258	6.5	SEP				
APR					12...	1505	91	204	16.0
24...	1255	104	421	8.0					
MAY									
23...	1545	287	159	10.5					
09346400 SAN JUAN RIVER NEAR CARRACAS, CO (LAT 37 00 49N LONG 107 18 42W)									
FEB 1995					JUL 1995				
21...	1225	541	481	3.0	13...	1125	2830	78	13.0
MAR					AUG				
08...	1520	864	496	3.5	09...	1240	393	178	22.0
MAY					SEP				
25...	0930	1960	132	8.0	15...	1135	326	253	13.0
JUN									
15...	1250	4660	88	8.5					
18...	1105	6910	758	9.0					
09349800 PIEDRA RIVER NEAR ARBOLES, CO (LAT 37 05 18N LONG 107 23 50W)									
DEC 1994					JUN 1995				
08...	1225	142	361	1.5	14...	1530	2110	107	11.0
FEB 1995					18...	1415	3260	112	9.0
21...	1355	223	381	6.5	JUL				
MAR					13...	1425	1130	105	16.5
08...	1105	525	370	2.0	AUG				
MAY					09...	1500	146	302	24.0
25...	1230	1350	153	8.5	SEP				
					14...	0935	149	304	12.0
09354500 LOS PINOS RIVER AT LA BOCA, CO (LAT 37 00 34N LONG 107 35 56W)									
DEC 1994					JUN 1995				
19...	1435	87	225	2.5	01...	0945	233	237	13.0
FEB 1995					20...	1045	1780	113	11.0
06...	0950	81	372	0.5	SEP				
MAR					11...	0855	239	211	14.0
14...	1435	771	157	8.0					
09355000 SPRING CREEK AT LA BOCA, CO (LAT 37 00 40N LONG 107 35 47W)									
DEC 1994					JUN 1995				
19...	1055	4.9	1140	0.0	01...	1045	58	352	13.5
FEB 1995					SEP				
06...	1340	18	693	3.0	11...	1115	82	251	15.0
MAR									
09...	1500	13	753	10.5					
09358000 ANIMAS RIVER AT SILVERTON, CO (LAT 37 48 40N LONG 107 39 32W)									
OCT 1994					JUN 1995				
13...	1335	74	270	7.5	22...	0630	1110	108	2.0
DEC					27...	1030	938	109	5.0
13...	1330	41	350	0.0	JUL				
JAN 1995					11...	1115	865	111	6.5
18...	1610	32	268	0.0	SEP				
APR					07...	1500	108	237	9.5
12...	1510	51	363	10.0					

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
09358550 CEMENT CREEK AT SILVERTON, CO (LAT 37 49 11N LONG 107 39 47W)									
OCT 1994					JUN 1995				
11...	1210	21	965	7.0	22...	0710	319	198	2.0
NOV					27...	1150	275	219	6.0
09...	1410	19	1100	5.0	JUL				
DEC					11...	1025	196	246	7.5
13...	1400	15	1170	3.0	AUG				
JAN 1995					07...	1810	51	555	12.0
18...	1400	20	1160	0.0	SEP				
APR					07...	1130	30	875	9.5
07...	1130	30	812	5.0					
09359010 MINERAL CREEK AT SILVERTON, CO (LAT 37 48 10N LONG 107 40 20W)									
OCT 1994					JUN 1995				
11...	1425	52	349	8.5	21...	1230	607	115	6.5
NOV					27...	0845	732	104	3.0
09...	1450	36	450	4.0	JUL				
DEC					11...	0940	688	103	4.5
13...	1200	33	488	0.0	AUG				
APR 1995					09...	0730	245	153	6.0
07...	1030	47	413	2.0	SEP				
					07...	0955	93	261	8.0
09361500 ANIMAS RIVER AT DURANGO, CO (LAT 37 16 45N LONG 107 52 47W)									
OCT 1994					JUN 1995				
28...	1120	370	509	7.5	13...	1200	5810	142	6.0
FEB 1995					27...	1345	5590	136	7.5
23...	1050	421	449	6.5	JUL				
APR					26...	1045	1950	222	12.5
28...	1130	765	394	8.5	AUG				
MAY					30...	1115	984	341	14.0
25...	1605	2280	244	7.0					
09371000 MANCOS RIVER NEAR TOWAOC, CO (LAT 37 01 39N LONG 108 44 27W)									
OCT 1994					MAY 1995				
19...	1145	24	1580	8.5	09...	1035	106	661	11.0
NOV					JUN				
17...	1240	17	1780	4.5	16...	1155	436	362	14.0
FEB 1995					JUL				
16...	1420	57	2170	6.0	07...	1045	109	659	18.5
MAR					AUG				
13...	1305	138	1190	8.0	25...	0925	22	1290	22.0

09034250 COLORADO RIVER AT WINDY GAP, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1994 to September 1995.

REMARK.--Samples collected near gage, except winter sample, which is collected near Windy Gap Reservoir outflow.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
DEC 20...	1500	67	130	7.6	0.0	9.7	51	16	2.7
MAR 30...	1200	78	153	8.6	4.0	12.0	58	18	3.1
MAY 19...	1400	126	141	8.4	10.5	9.1	45	14	2.4
JUL 12...	1530	1560	66	8.2	11.5	8.7	--	--	--

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)
DEC 20...	6.1	0.4	1.3	57	4.7	2.2	0.2	13	82
MAR 30...	7.1	0.4	1.7	63	5.5	4.2	0.2	13	92
MAY 19...	5.4	0.4	1.3	48	4.2	3.1	0.2	11	71
JUL 12...	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)
DEC 20...	0.11	14.8	6	0.26	<0.20	<0.20	0.03	0.02
MAR 30...	0.13	19.5	5	0.23	0.30	0.20	0.05	0.04
MAY 19...	0.10	24.1	11	<0.05	0.30	0.20	0.04	<0.01
JUL 12...	--	--	10	<0.05	<0.20	<0.20	<0.01	0.01

DATE	ANTI- MONY, DIS- SOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
DEC 20...	<1	<1	<1	18	<0.5	<1	<1	<1	<1
MAR 30...	<1	<1	<1	18	<0.5	<1	<1	<1	<1
MAY 19...	<1	<1	<1	17	<0.5	<1	<1	<1	<1
JUL 12...	<1	<1	<1	11	<0.5	<1	<1	<1	<1

09034250 COLORADO RIVER AT WINDY GAP, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)
DEC 20...	<1	<1	76	<1	<1	42	<0.1	<0.1
MAR 30...	<1	3	260	<1	<1	68	<0.1	<0.1
MAY 19...	<1	<1	260	<1	<1	39	<0.1	<0.1
JUL 12...	1	<1	--	<1	<1	--	<0.1	<0.1

DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- TOTAL SOLVED (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC 20...	<1	<1	<1	<1	<1	<1	<10	9
MAR 30...	<1	2	<1	<1	<1	<1	<10	5
MAY 19...	<1	<1	<1	<1	<1	<1	<10	<3
JUL 12...	<1	<1	<1	<1	<1	<1	<10	<3

383103106594200 GUNNISON RIVER AT CNTY RD 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, 1/4 mi south of US HWY 50, and 3.3 mi west of Gunnison.

DRAINAGE AREA.--2,128 mi².

PERIOD OF RECORD.--December 1994 to September 1995.

REMARKS.--Upper Colorado River Basin National Water Quality Assessment station (NAWQA).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
JAN												
19...	1115	275	238	8.6	0.0	11.5	120	34	7.4	4.9	0.2	1.1
FEB												
22...	0940	292	225	8.3	0.0	11.4	100	30	6.9	4.4	0.2	1.3
MAR												
16...	0905	493	246	8.2	2.0	10.5	93	27	6.2	5.9	0.3	2.0
APR												
18...	1530	689	213	8.0	7.5	9.4	95	28	6.2	5.0	0.2	1.3
MAY												
11...	1015	1620	200	8.1	6.5	9.7	89	26	5.8	5.1	0.2	1.2
25...	1020	3440	172	8.0	5.5	9.6	78	23	5.1	3.7	0.2	1.0
JUN												
16...	1815	7550	173	7.6	11.0	8.4	78	23	5.1	3.2	0.2	1.3
JUL												
18...	1250	5220	157	7.8	11.0	8.4	73	22	4.5	2.4	0.1	0.80
AUG												
24...	1130	1400	188	8.3	14.5	8.3	87	26	5.3	2.9	0.1	0.90
SEP												
20...	1300	915	190	8.3	11.5	9.1	91	27	5.6	3.2	0.1	1.0

DATE	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)
JAN											
19...	--	--	15	1.3	0.2	12	144	125	0.20	107	<0.01
FEB											
22...	117	96	14	1.2	0.2	12	133	128	0.18	105	<0.01
MAR											
16...	120	98	20	2.0	0.3	11	152	134	0.21	202	<0.01
APR											
18...	104	86	17	1.3	0.2	12	134	123	0.18	249	<0.01
MAY											
11...	93	77	15	1.4	0.3	12	126	113	0.17	551	<0.01
25...	87	71	12	2.1	0.2	11	111	101	0.15	1030	<0.01
JUN											
16...	88	72	9.3	1.8	0.1	11	107	99	0.15	2180	<0.01
JUL											
18...	82	67	8.3	1.0	0.1	9.1	97	89	0.13	1370	<0.01
AUG											
24...	97	80	12	0.6	0.1	10	112	106	0.15	423	<0.01
SEP											
20...	98	81	11	0.8	<0.1	9.6	111	107	0.15	274	0.01

383103106594200 GUNNISON RIVER AT CNTY RD 32 BELOW GUNNISON, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
JAN 19...	0.05	<0.015	<0.20	<0.20	0.03	0.03	<0.01	1.4	0.3	9	17
FEB 22...	0.12	<0.015	<0.20	<0.20	0.03	<0.01	0.02	1.4	0.3	13	16
MAR 16...	0.06	0.03	0.30	<0.20	0.04	0.03	0.02	3.4	1.4	78	38
APR 18...	0.06	0.02	<0.20	<0.20	0.02	0.01	0.02	2.2	0.5	56	18
MAY 11...	0.12	<0.015	0.30	0.20	0.05	0.02	0.02	3.2	1.1	86	14
25...	0.07	0.02	<0.20	<0.20	0.03	<0.01	<0.01	4.1	0.6	93	13
JUN 16...	0.05	0.03	0.60	0.30	0.17	0.03	0.02	5.2	2.8	120	26
JUL 18...	<0.05	0.02	<0.20	<0.20	0.01	<0.01	0.01	2.5	0.5	73	21
AUG 24...	<0.05	<0.015	<0.20	<0.20	0.01	<0.01	0.01	1.9	0.3	75	20
SEP 20...	<0.05	<0.015	0.20	<0.20	0.04	0.02	0.01	1.9	0.2	60	16

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ANTI- MONY, DIS- SOLVED (UG/L AS SB)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)
SEP 20...	5	<1	<1	38	<1	<1	<1	<1	<1

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
SEP 20...	<1	16	<1	<1	<1	<1	2	1

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
JAN 19...	1115	275	3	2.2	MAY 11...	1015	1620	32	140
FEB 22...	0940	292	3	2.4	25...	1020	3440	41	381
MAR 16...	0905	493	24	32	JUN 16...	1815	7550	248	5060
APR 18...	1530	689	10	19	JUL 18...	1250	5220	23	324
					AUG 24...	1130	1400	12	45

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
<i>Length</i>		
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
<i>Area</i>		
acre	4.047×10^3	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi ²)	2.590×10^0	square kilometer
<i>Volume</i>		
gallon (gal)	3.785×10^0	liter
	3.785×10^0	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^3	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft ³)	2.832×10^1	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft ³ /s) d]	2.447×10^3	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^3	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
<i>Flow</i>		
cubic foot per second (ft ³ /s)	2.832×10^1	liter per second
	2.832×10^1	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^1	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
<i>Mass</i>		
ton (short)	9.072×10^{-1}	megagram or metric ton

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.