

Water Resources Data Colorado Water Year 1997

Volume 1. Missouri River Basin, Arkansas River Basin, and Rio Grande Basin

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

Water-Data Report CO-97-1

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

UNITED STATES DEPARTMENT OF THE INTERIOR BRUCE BABBITT, Secretary

U. S. GEOLOGICAL SURVEY

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CALENDAR FOR WATER YEAR 1997

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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 W. F. Horak, District Chief, Colorado.

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(Letter after station name designates type and frequency of published data. Daily tables: (D) discharge, (C) specific conductance, (S) sediment, (T) temperature, (E) elevation or contents, (O) dissolved oxygen, (P) pH, (R) precipitation.

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

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VOLUME 1: MISSOURI RIVER, ARKANSAS RIVER, AND RIO GRANDE BASINS

By R.M. Crowfoot, A.V. Paillet, G.F. Ritz, M.E. Smith, R.D. Steger, 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 1 of two volumes) includes records on both surface and ground water in the State, east of the Continental Divide. Specifically, it contains: (1) discharge records for 152 surface-water stations, peak discharges for 29 partial-record surface-water stations and discharge measurements only for 1 miscellaneous site; (2) stage and contents for 12 lakes and reservoirs; (3) water-quality data for 61 surface-water stations, 3 reservoirs, 14 wells, and miscellaneous surface-water-quality data for 75 gaged sites, 5 miscellaneous sites; and (4) ground-water level records for 1 site, and meteorological data for 23 sites. Locations of lake and surface-water stations and surface-water-quality stations are shown in figure 1, locations of crest-stage partial-record stations are shown in figure 2. Four pertinent stations operated by bordering States also are included in this report. The data in this report represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Colorado.

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

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

Beginning with the 1971 water year, water data on surface-water, water quality, and ground-water are published in official Survey reports on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report CO-97-1." 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 Chief at the address given on the back of the title page or by telephone (303) 236-4882.

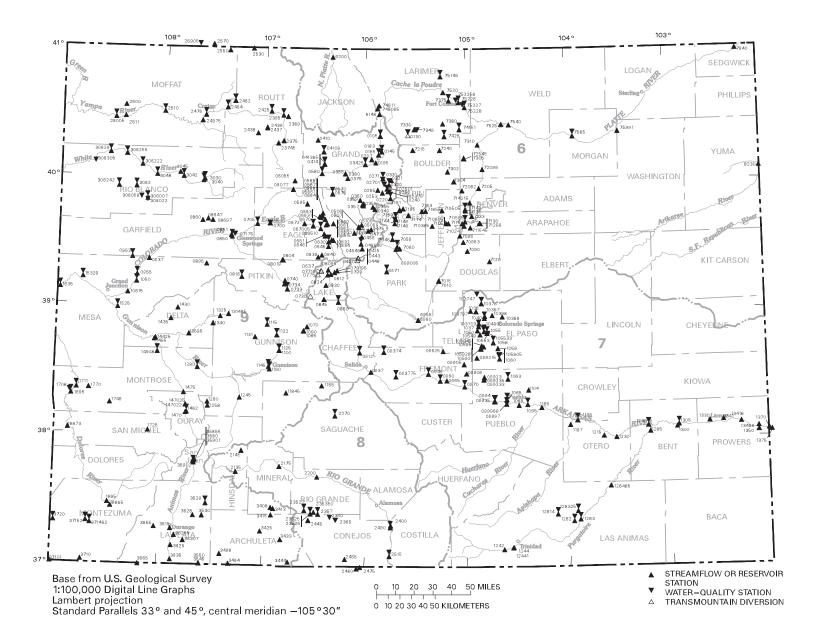


Figure 1.--Map showing locations of lake and surface-water stations and surface-water-quality stations in Colorado.

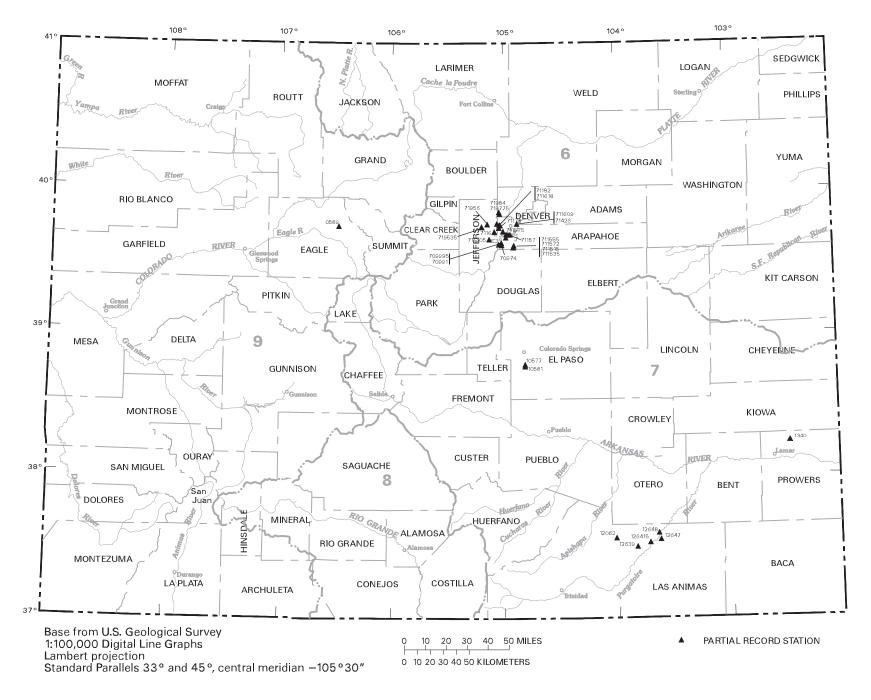


Figure 2.--Map showing locations of crest-stage partial-record stations in Colorado.

COOPERATION

The U.S. Geological Survey and organizations of the State of Colorado have had cooperative agreements for the systematic collection of surface-water records since 1895 and for water-quality records since 1941. Organizations that assisted in collecting data for this report through cooperative agreement with the Survey are:

Arapahoe County, Water and Wastewater Authority. Arkansas River Compact Administration. Centennial Water and Sanitation District. Cherokee Metropolitan District. City and County of Denver, Board of Water Commissioners. City of Aurora. City of Boulder. City of Broomfield.
City of Colorado Springs. City of Englewood. City of Fort Collins. City of Glendale. City of Golden.
City of Gunnison.
City of Idaho Springs. City of Lakewood. City of Longmont. City of Louisville. City of Loveland. City of Pueblo. City of Westminster. Colorado Department of Public Health and Environment.
Colorado Department of Transportation.
Colorado Division of Parks and Outdoor Recreation.
Colorado Division of Water Resources. Colorado Division of Wildlife. Colorado River Water Conservation District. Colorado Springs Department of Public Utilities. Crested Butte South Metropolitan District. Delta County Board of County Commissioners. Dolores Water Conservancy District.
Eagle County Board of Commissioners. Eagle River Water and Sanitation District. East Grand County Water-Quality Board. Evergreen Metropolitan District. Fountain Valley Authority.
Garfield County.
Gilpin County. Gunnison County. La Plata County.

Lower Fountain Water-Quality Management Association. Meeker Sanitation District. Metro Wastewater Reclamation District. Moffat County. Mount Crested Butte Water and Sanitation District. Northern Colorado Water Conservancy District. Northwest Colorado Council of Governments. Pueblo Board of Water Works. Pueblo West Metro Water District.
Rio Blanco County Board of County Commissioners. Rio Grande Water Conservation District. Southeastern Colorado Water Conservancy District. Southern Ute Indian Tribe. Southwestern Colorado Water Conservation District. St. Charles Mesa Water District. Teller - Park Soil Conservation District. Town of Basalt. Town of Breckenridge.
Town of Central City.
Town of Crested Butte. Town of Empire. Town of Hotchkiss. Town of Meeker. Town of Rangely.
Trinchera Water Conservancy District.
Upper Arkansas River Water Conservancy District. Upper Eagle Regional Water Authority.
Upper Gunnison River Water Conservancy District.
Upper Yampa Water Conservancy District. Urban Drainage and Flood Control District.

Yellowjacket Water Conservancy District.

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

OVERVIEW OF HYDROLOGIC CONDITIONS [East of the Continental Divide]

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

Precipitation

Precipitation data for water year 1997 were obtained from published reports of the U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, for the four National Weather Service divisions in Colorado that are east of the Continental Divide (table 1). Precipitation and departures-from-normal precipitation (1961-90) are listed for the first 6 months (October-March) of the water year when precipitation is predominately snow and for the remaining 6 months (April-September) when precipitation is predominately rain. Also listed are the precipitation and departures-from-normal precipitation for the entire water year.

For October-March, precipitation was 17 percent less than normal in the Platte Drainage Basin, 21 percent less than normal in the Arkansas Drainage Basin, and 61 percent less than normal in the Kansas Drainage Basin. Precipitation was 19 percent greater than normal in the Rio Grande Drainage Basin. For April-September, precipitation was 12 percent greater than normal in the Kansas Drainage Basin, 28 percent greater than normal in the Arkansas Drainage Basin, 41 percent greater than normal in the Platte Drainage Basin, and 41 percent greater than normal in the Rio Grande Drainage Basin.

Graphs of monthly precipitation for the water year and for normal monthly precipitation, at selected weather stations, are shown in figure 3. Monthly precipitation data for water year 1997 were supplemented with ancillary information obtained from the Colorado State University, Department of Atmospheric Science, Colorado Climate Center, in Fort Collins.

National Weather Service	Octobe	r–March	April-Se	eptember	Water year 1997		
division	Precipitation	Departure from normal	Precipitation	Departure from normal	Precipitation	Departure from normal	
Arkansas Drainage Basin	3.19	-0.85	13.49	2.92	16.68	2.07	
Kansas Drainage Basin	1.32	-2.04	14.81	1.56	16.13	48	
Platte Drainage Basin	3.73	77	15.91	4.64	19.64	3.87	
Rio Grande Drainage Basin	6.44	1.04	10.95	3.19	17.39	4.23	

Table 1. Precipitation during water year 1997 and departures-from-normal precipitation (1961–90), in inches

Streamflow

Monthly mean discharges during water year 1997 at selected streamflow-gaging stations are compared to long-term (reference period through previous water year) mean monthly discharges in figure 4. Individual graphs show the varied streamflow east of the Continental Divide. Streamflows during water year 1997, with a few exceptions, were not unusually higher or lower than long-term mean streamflows. The long-term mean monthly discharges used for gaging station 06706000, North Fork South Platte River below Geneva Creek, at Grant (fig. 4, site B), do not include records prior to water year 1964 (the year that imported water from the Colorado River Basin began flowing past the gaging station). Gaging station 07094500, Arkansas River at Parkdale (fig. 4, site D), was converted to seasonal operation in April 1995; the comparison period is April-September.

In the Platte River Basin, the graphs for gaging stations 06701500, South Platte River below Cheesman Lake (fig. 4, site A), and 06706000, North Fork South Platte River below Geneva Creek, at Grant (fig. 4, site B), had general temporal trends similar to the trends of the long-term mean monthly discharges. The graph for gaging station 06758500, South Platte River near Weldona (fig. 4, site C), indicates that water year 1997 monthly mean discharges generally did not follow the trend of long-term mean monthly discharges. Local water-management practices, which consisted mostly of storage, release, or diversion of water as determined by daily and seasonal irrigation and municipal needs, affected the trends in the three discharge graphs. The water 1997 mean discharge at gaging station 06701500, South Platte River below Cheesman Lake, was 24 percent greater than the long-term mean. The water year 1997 mean discharge at gaging station 06706000, North Fork South Platte River below Geneva Creek, at Grant, was 31 percent greater than the long-term mean. The water year 1997 mean discharge at gaging station 06758500, South Platte River near Weldona, was 57 percent greater than the long-term mean; the June 1997 monthly mean discharge at this site was notably greater (233 percent) than the long-term mean for June.

In the Arkansas River Basin, the graph for gaging station 07094500, Arkansas River at Parkdale (fig. 4, site D), had a general temporal trend similar to that of the long-term mean monthly discharges. The graphs for gaging stations 07126300, Purgatoire River near Thatcher (fig. 4, site E), and 07133000, Arkansas River at Lamar (fig. 4, site F), indicate that water year 1997 monthly mean discharges generally did not follow the trend of long-term mean monthly discharges. Local water-management practices, which consisted mostly of storage, release, or diversion of water as determined by daily and seasonal irrigation and municipal needs, affected the trends in the three discharge graphs. The April through September 1997 mean discharge at gaging station 07094500, Arkansas River at Parkdale, was 32 percent greater than the long-term mean. The water year 1997 mean discharge at this site was notably less (58 percent) than the long-term mean for the same period. The water year 1997 mean discharge at gaging station 07133000, Arkansas River at Lamar, was 35 percent greater than the long-term mean.

In the Rio Grande Basin, the graph for gaging station 08217500, Rio Grande at Wagon Wheel Gap (fig. 4, site G), had a general temporal trend similar to that of the long-term mean monthly discharges. The graph for gaging station 08251500, Rio Grande near Lobatos (fig. 4, site H), indicates that 1997 monthly mean discharges generally did not follow the trend of long-term mean monthly discharges. Local water-management practices, which consisted mostly of storage, release, or diversion of water as determined by daily and seasonal irrigation and municipal needs, affected the trends in the two discharge graphs. The water 1997 mean discharge at gaging station 08217500, Rio Grande at Wagon Wheel Gap, was 48 percent greater than the long-term mean. The water year 1997 mean discharge at gaging station 08251500, Rio Grande near Lobatos, was 4 percent greater than the long-term mean.

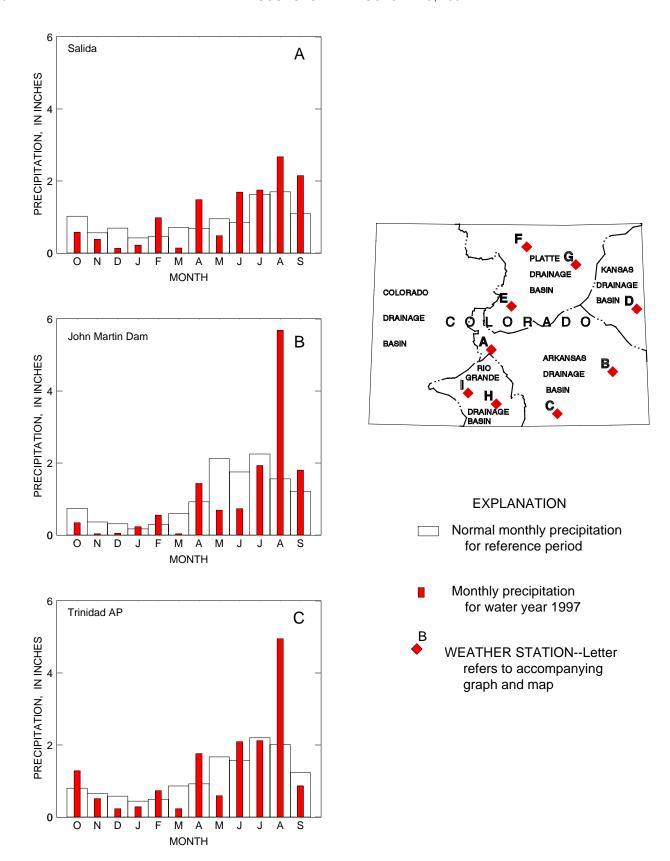


Figure 3.--Comparison of monthly precipitation for water year 1997 to normal monthly precipitation for the reference period 1961–90.

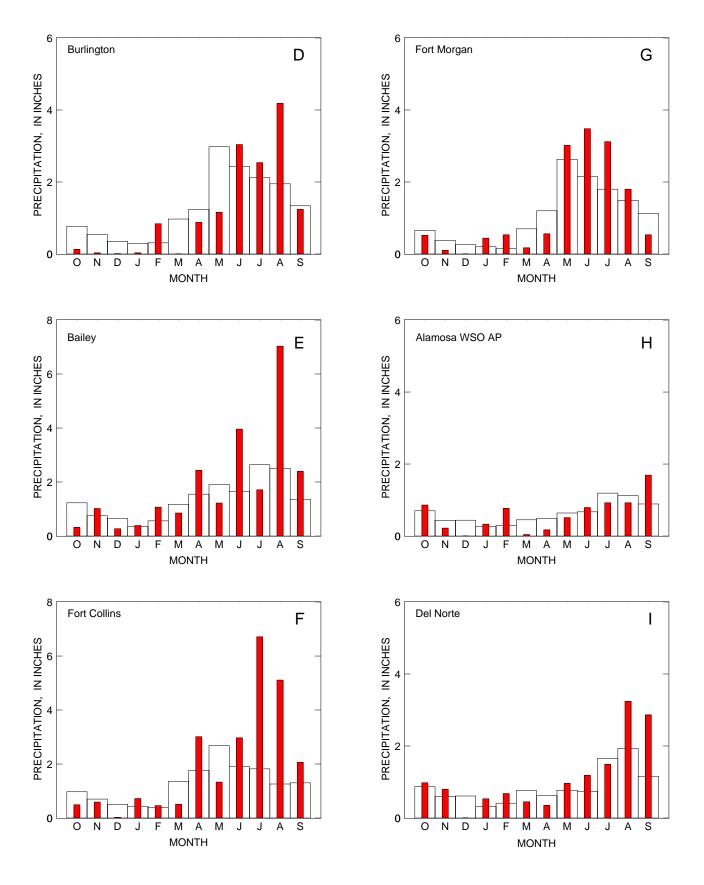
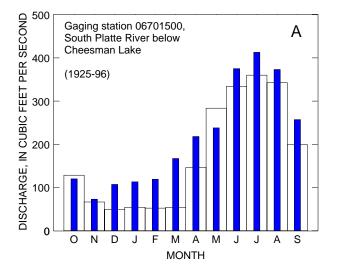
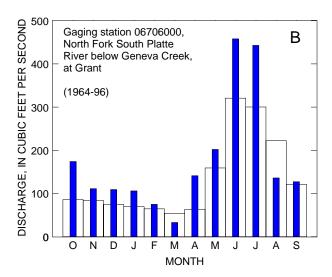
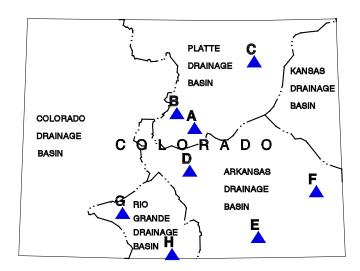


Figure 3.--Comparison of monthly precipitation for water year 1997 to normal monthly precipitation for the reference period 1961–90--Continued.







EXPLANATION

- Mean monthly discharge for reference period
- Monthly mean discharge for water year 1997
- A GAGING STATION--Letter refers to accompanying graph and map

(1925-96) REFERENCE PERIOD

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

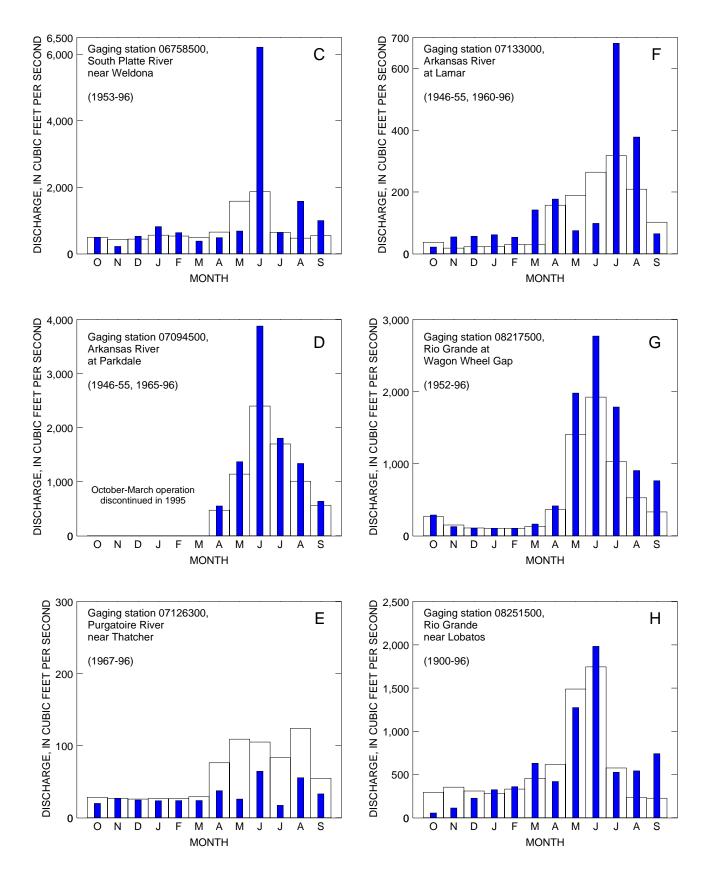


Figure 4.--Comparison of monthly discharges for water year 1997 to mean monthly discharges for the reference periods indicated on the individual graphs--Continued.

Peak discharges during water year 1997 and for the period of record (through previous water year) for selected streamflow-gaging stations are listed in table 2. No new discharge extremes occurred this water year at these gaging stations. The water year 1997 peak discharges at gaging stations 06620000, North Platte River near Northgate; 06752500, Cache La Poudre River near Greeley; 06758500, South Platte River near Weldona; 07106500, Fountain Creek at Pueblo; and 08220000, Rio Grande near Del Norte, were greater than the 75th percentile. The water year 1997 peak discharges at gaging stations 06701500, South Platte River below Cheesman Lake; 07126300, Purgatoire River near Thatcher; and 07128500, Purgatoire River near Las Animas, were less than the 25th percentile. Water year 1997 peak discharges at the other gaging stations listed in table 2 were within the middle 50 percent of the long-term discharge distributions.

Table 2. Peak discharges for water year 1997 and for the period of record at selected gaging stations

[mi², square miles; ft³/s, cubic feet per second; WY, water year]

Gagin	g-station identification	Drainage	Period of	Water year 1997		Period of record		
Station number			record (water years)	Date	Peak discharge (ft ³ /s)	Date	Peak discharge (ft ³ /s)	Remarks on WY 1997 peak discharge
06620000	North Platte River near Northgate	1,431	1904, 1915-96	6/5	4,390	6/11/23	6,720	Greater than 75th percentile
06696000	South Platte River near Lake George	963	1930-96	6/29	395	4/28/70	3,000	Less than median
06701500	South Platte River below Cheesman Lake	1,752	1926-96	6/29	642	4/29/70	4,640	Less than 25th percentile
06706000	North Fork South Platte River below Geneva Creek, at Grant	127	¹ 1964-96	7/28	691	6/18/95	1,160	Less than 75th percentile
06752500	Cache la Poudre River near Greeley	1,877	1903, 1916-17, 1919, 1924-96	6/13	3,670	6/14/83	6,360	Greater than 75th percentile
06758500	South Platte River near Weldona	13,245	1953-96	6/15	11,600	5/8/73	26,800	Greater than 75th percentile
07094500	Arkansas River at Parkdale	2,548	1946-55, 1965-96	6/21	4,990	6/18/95	6,830	Less than 75th percentile
07106500	Fountain Creek at Pueblo	926	1921-22, 1924-25, 1935, 1941-65, 1971-96	6/10	10,100	6/17/65	47,000	Greater than 75th percentile
07109500	Arkansas River near Avondale	6,327	1939-51, 1965-96	6/14	8,150	6/18/65	50,000	Less than 75th percentile
07124000	Arkansas River at Las Animas	14,417	1939-96	8/13	5,350	5/20/55	44,000	Less than 75th percentile
07126300	Purgatoire River near Thatcher	1,791	1965-96	8/1	2,540	6/18/65	47,700	Less than 25th percentile (5th lowest)
07128500	Purgatoire River near Las Animas	3,318	1922-31, 1949-96	8/12	2,500	5/20/55	70,000	Less than 25th percentile
07133000	Arkansas River at Lamar	19,780	1913, 1915, 1919-55, 1960-96	8/12	3,820	6/5/21	130,000	Greater than median
08220000	Rio Grande near Del Norte	1,320	1890-1996	6/2	7,440	10/5/11	18,000	Greater than 75th percentile
08240000	Rio Grande above mouth of Trinchera Creek, near Lasauses	5,740	1936-62, 1964-80, 1982-96	6/5	2,040	6/21/49	5,470	Less than 75th percentile
08246500	Conejos River near Mogote	282	1903-05, 1912-96	6/2	2,470	10/5/11	9,000	Greater than median
08251500	Rio Grande near Lobatos	7,700	1900-96	6/5	3,610	6/8/05	13,200	Greater than median

¹Period since imported water began flowing past this gaging station.

Chemical Quality of Streamflow

To determine if substantial changes occurred during water year 1997 in the chemical quality of streamflow, an analysis was made of specific conductance, which was measured at gaging stations on six selected streams. Specific conductance can be used to estimate the dissolved-solids concentration in water because specific conductance is directly proportional to the concentrations of ions in water. Each selected gaging station is the most downstream gaging station on that stream or is representative of a substantial part of the drainage area of that stream. For each selected gaging station, the distribution of specific conductance during water year 1997 is compared to the distribution of specific conductance for the reference period in figure 5.

The Wilcoxon-Mann-Whitney rank sum test was used to determine if there were significant differences between values of specific conductance for water year 1997 and values for the reference period (Ott, 1993). This test is a nonparametric counterpart to the common t-test and does not require the data to have a normal distribution.

The Wilcoxon-Mann-Whitney rank sum test was applied to the hypothesis that the mean specific conductance for water year 1997 was equal to the mean for the reference period. The procedure for testing the hypothesis involves computing a test statistic from the ranks of the data by using a pooled standard deviation and comparing the test statistics to a value obtained from a table of "Student's" t values (Box and others, 1978). The table value is (1 - alpha/2), where alpha (the level of significance) equals 0.05, at the appropriate degrees of freedom for the number of samples. If the absolute value of the computed test statistic (t_R) is greater than the tabular t value (t_{tab}) , the hypothesis is rejected. A rejection of the hypothesis is statistical evidence that the two means are different. The Wilcoxon-Mann-Whitney rank sum test results were evaluated at the 95-percent confidence level.

Results of the Wilcoxon-Mann-Whitney rank sum tests for the six gaging stations are listed in table 3. For four of the six gaging stations, 06741510, Big Thompson River at Loveland; 07128500, Purgatoire River near Las Animas; 07133000, Arkansas River at Lamar; and 08217500, Rio Grande at Wagon Wheel Gap, the tests indicate that the mean specific conductance for water year 1997 and the mean specific conductance for the reference period are not statistically different at the specified level. For gaging station 06752280, Cache la Poudre River above Box Elder Creek, near Timnath, the mean specific conductance for water year 1997 is statistically different from the mean for the reference period. Annual mean discharge for water year 1997 was 194 percent greater than the mean flow for the reference period. Discharge and specific conductance are inversely related at this site; therefore, mean specific conductance for water year 1997 would be expected to be lower than the mean specific conductance for the reference period. Similarly, for gaging station 07094500, Arkansas River at Parkdale, mean annual discharge for April-September was 32 percent greater than the mean discharge for the reference period. Because discharge and specific conductance are inversely related at this site as well, mean specific conductance for water year 1997 also would be expected to be lower than the mean specific conductance for the reference period.

Table 3. Results of Wilcoxon-Mann-Whitney rank sum tests comparing mean specific conductance of discharge for water year 1997 with mean for the reference period at selected gaging stations

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

Gaging-station identification				Specific co	Wilcoxon-Mann-Whitney rank sum test						
		Wate	er year	1997	Reference period			Period			
Station number	Station name	Number of values	Mean	Standard deviation	Number of values	Mean	Standard deviation	used (water years)	t _R	'n teet	Hypoth- esis
06741510	Big Thompson River at Loveland	12	986	587	120	1,027	510	1987-96	-0.24	1.98	Α
06752280	Cache la Poudre River above Box Elder Creek, near Timnath	12	708	561	110	1,527	716	1987-96	-3.37	1.98	R
07094500	Arkansas River at Parkdale	9	191	66	141	245	69	1987-96	-2.25	1.98	R
07128500	Purgatoire River near Las Animas	13	3,392	1,085	180	2,977	1,046	1987-96	1.64	1.98	Α
07133000	Arkansas River at Lamar	12	3,154	1,084	130	3,384	916	1987-96	-0.78	1.98	Α
08217500	Rio Grande at Wagon Wheel Gap	9	85	23	84	91	23	1987-96	-0.84	1.99	Α

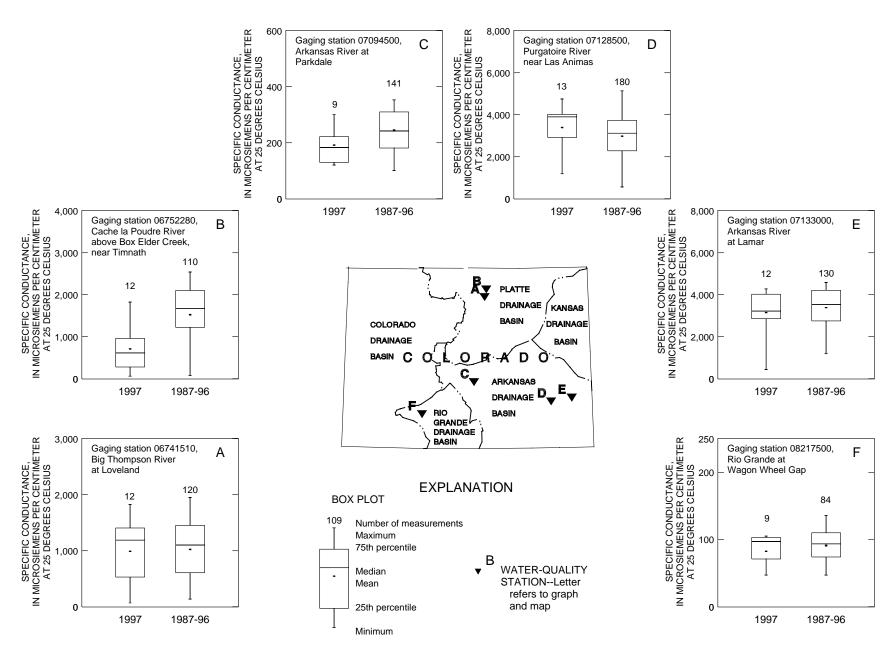


Figure 5.--Comparison of range and distribution of specific conductance measured during water year 1997 to long-term values.

SPECIAL NETWORKS AND PROGRAMS

<u>Hydrologic Benchmark Network</u> is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 39 stations. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead Federal agency, the USGS works together with over 100 organizations to accomplish the following objectives: (1) Provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 191 precipitation chemistry monitoring sites. (2) Provide the mechanism to evaluate the effectiveness of the significant reduction in SO₂ emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred. (3) Provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO₂ and NO_x scheduled to begin in 2000.

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

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

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

Assessment activities are being conducted in 53 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and Federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key Federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies.

Additional information about the NAWQA Program is available through the World Wide Web at:

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

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 1997 water year that began on October 1, 1996, and ended September 30, 1997. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, ground-water level data, and water-quality data for surface and ground water. The locations of the stations where the surface-water data were collected are shown in figures 1 and 2. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

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

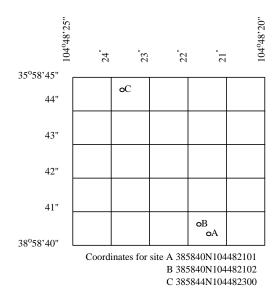
Downstream Order System

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

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

Latitude-Longitude System

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



System for numbering wells, springs, and miscellaneous sites.

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

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

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

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

Records of Stage and Water Discharge

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

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

Data Collection and Computation

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

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

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

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

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

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

For some gaging stations there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections. "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

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

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

Station manuscript

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

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

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

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

REVISED RECORDS.--Because of new information, published records occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

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

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

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

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

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

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

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

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

Data table of daily mean values

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

If applicable, data collected at partial-record stations follow the information for continuous-record sites. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Statistics of monthly mean data

Summary statistics

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

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

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

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

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

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

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

- LOWEST DAILY MEAN .-- The minimum daily mean discharge for the year or for the designated period.
- ANNUAL 7-DAY MINIMUM.--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.
- INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria. Those discharge values may be obtained by writing to the District Office. (See address on back of title page of this report.)
- INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ. The REMARKS paragraph in the manuscript or a footnote may be used to provide further information.
- INSTANTANEOUS LOW FLOW.--The minimum instantaneous discharge occurring for the water year or for the designated period.
- ANNUAL RUNOFF.--Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:
 - Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.
 - Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile area drained, assuming the runoff is distributed uniformly in time and area.
 - Inches (INCHES) indicates the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.
- 10 PERCENT EXCEEDS.--The discharge that has been exceeded 10 percent of the time for the designated period.
- 50 PERCENT EXCEEDS.--The discharge that has been exceeded 50 percent of the time for the designated period.
- 90 PERCENT EXCEEDS.--The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

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

Accuracy of the Records

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

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

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for daily values less than 1 ft^3/s ; to the nearest tenth between 1.0 and 10 ft^3/s ; to whole numbers between 10 and 1,000 ft^3/s ; and to 3 significant figures for more than 1,000 ft^3/s . The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

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

Other Records Available

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

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

Records of Surface-Water Quality

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

In March 1989 the National Water-Quality Laboratory discovered a bias in the turbidimetric method for sulfate analysis, indicating that values below 75 mg/L have a median positive bias of 2 mg/L above the true value for the period between 1982 and 1989. Sulfate values in this report have not been corrected for this bias.

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

Accuracy of the Records

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

* Temperature: \pm 0.3 degree C.

Specific Conductance: $\pm 5 \,\mu$ S/cm or $\pm 5\%$ whichever is greater

pH: ± 0.2 pH units

* Dissolved Oxygen: \pm 0.3 mg/L or \pm 5% whichever is greater.

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

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A <u>continuing-record station</u> 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 <u>partial-record station</u> 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 <u>miscellaneous</u> 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 wasteheat discharges.

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

Sediment

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

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

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

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

Laboratory Measurements

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

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

Data Presentation

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

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

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

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

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

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

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

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

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

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

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

Remark Codes

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

PRINTED OUTPUT REMARK

- Estimated value
- > Actual value is known to be greater than the value shown
- Actual value is known to be less than the value shown
- K Based on non-ideal colony count
- M Presence of material verified but not quantified

Records of Ground-Water Quality

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

Data Collection and Computation

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

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

Data Presentation

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

ACCESS TO USGS WATER DATA

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

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

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

DEFINITION OF TERMS

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

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

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

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

<u>Algal growth potential</u> (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.

<u>Artesian</u> 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.

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

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

<u>Total coliform bacteria</u> 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 $\pm 1.0^{\circ}$ C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

<u>Fecal coliform bacteria</u> 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 \pm 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.

<u>Fecal streptococcal bacteria</u> are bacteria found also in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brainheart infusion broth. In the laboratory they are defined as all the organism which produce red or pink colonies with 48 hours at $35^{\circ}\text{C} \pm 1.0^{\circ}\text{C}$ 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.

<u>Biochemical oxygen demand</u> (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).

<u>Dry mass</u> 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.

<u>Cells/volume</u> 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).

<u>Cfs-day</u> 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.

<u>Chemical oxygen demand</u> (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.

<u>Contents</u> 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.

<u>Control</u> 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.

<u>Control structure</u> 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.

<u>Cubic foot per second</u> (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.

<u>Discharge</u> 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.

<u>Instantaneous discharge</u> is the discharge at a particular instant of time.

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

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

<u>Dissolved-solids concentration</u> 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.

<u>Drainage area</u> 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.

<u>Drainage basin</u> 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.

<u>Gage height</u> (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).

<u>Hydrologic Benchmark Network</u> is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities.

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

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

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

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

<u>Methylene blue active substances</u> (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 (μ g/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

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

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

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

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 39 stations. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals.

National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead Federal agency, the USGS works together with over 100 organizations to accomplish the following objectives: (1) Provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 191 precipitation chemistry monitoring sites. (2) Provide the mechanism to evaluate the effectiveness of the significant reduction in SO₂ emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred. (3) Provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO₂ and NO_x scheduled to begin in 2000.

Organism is any living entity.

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

<u>Organism count/volume</u> 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.

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

<u>Partial-record station</u> 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.

<u>Particle size</u> 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).

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

Classification	Size (mm)		Method of analysis
Clay	0.0002	0.004	Sedimentation
Silt	.004 -	.062	Sedimentation
Sand	.062 - 2	2.0	Sedimentation or sieve
Gravel	2.0 - 64	1.0	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.

<u>Percent composition</u> 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.

<u>Periphyton</u> 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.

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

<u>Picocurie</u> (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 x 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.

<u>Phytoplankton</u> 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.

<u>Blue-green algae</u> 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.

<u>Diatoms</u> are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

<u>Green algae</u> 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.

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

Milligrams of carbon per area or volume per unit time mg C/(m² x time) for periphyton and macrophytes and mg C/(m³ x time) for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time mg O/(m² x time) for periphyton and macrophytes and mg O/(m³ x time) for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

<u>Radiochemical program</u> 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.

<u>Return period</u> 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.

<u>Sea Level</u> 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.

<u>Sediment</u> 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.

<u>Bed load</u> 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.

<u>Suspended sediment</u> 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.

<u>Suspended-sediment concentration</u> 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.

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

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

<u>Total sediment discharge</u> (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.

<u>Total-sediment load</u> 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.

 $\frac{7-\text{day }10-\text{year low flow}}{10-\text{year low flow}}$ (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).

<u>Sodium-adsorption-ratio</u> (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.

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

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

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

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

<u>Suspended</u> (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is associated with the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45 µm membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

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

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 µm membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

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

<u>Taxonomy</u> 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, <u>Hexagenia limbata</u>, is the following:

<u>Thermograph</u> 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.

<u>Time-weighted average</u> 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.

<u>Tons per acre-foot</u> 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.

<u>Total</u> 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.)

<u>Total discharge</u> 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.

<u>Total, recoverable</u> 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.

<u>Tritium Network</u> 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."

<u>WDR</u> 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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WATER RESOURCES DATA - COLORADO, 1997 DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE ONLY STATIONS

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Colorado Creek near Spicer, CO	06611000	25.8	1950-55
Grizzly Creek near Spicer, CO	06611100	118	1976-80
Buffalo Creek near Hebron, CO	06611200	56.3	1976-80
Grizzly Creek near Hebron, CO	06611300	223	1976-80
Grizzly Creek near Walden, CO	06611500	258	1904-05,
			1923,
			1926-47
ittle Grizzly Creek near Coalmont, CO	06611700	10.1	1967-73
ittle Grizzly Creek above Coalmont, CO	06611800	35.4	1976-80
ittle Grizzly Greek above Hebron, CO	06611900	52.2	1976-80
ittle Grizzly Creek near Hebron, CO	06612000	98.6	1904-05,
			1931-45
oaring Fork near Walden, CO	06612500	79.1	1904-05,
			1923-47
lorth Platte River near Walden, CO	06613000	469	1904-05,
,			1923-47
arth Fork North Blatta Bivar near Wolden CO	06644000	160	
lorth Fork North Platte River near Walden, CO	06614000	160	1923-28,
			1936-45
South Fork Michigan River near Gould, CO	06615000	11.4	1950-58
lichigan River near Lindland, CO	06615500	60.9	1931-41
orth Fork Michigan River near Gould, CO	06616000	20.5	1950-82
	06617100	182	1904-05,
lichigan River at Walden, CO	00017100	102	
			1923-47
inois Creek near Rand, CO	06617500	70.6	1931-40
/illow Creek near Rand, CO	06618000	55.9	1931-40
linois Creek at Walden, CO	06618500	259	1923-47
lichigan River near Cowdrey, CO	06619000	478	1904-05,
ilchigan Niver hear Cowdrey, CO	00013000	470	
			1937-47
anadian River near Lindland, CO	06619400	44.0	1978-83
ush Draw near Walden, CO	06619415	4.10	1980-83
Villiams Draw near Walden, CO	06619420	3.95	1979-83
Canadian River near Brownlee, CO	06619450	158	1978-83
	06619500	181	1904-05,
Canadian River at Cowdrey, CO	00019300	101	
			1929-31,
			1937-47
aramie River near Glendevey, CO	06657500	101	1904-05,
			1910-82
fiddle Fork South Platte River above Fairplay, CO	06693980	62.2	1978-80
fiddle Fork South Platte River near Hartsel, CO	06694100	250	1978-80
outh Fork South Platte River above Fairplay, CO			
	06694400	50.3	1978-80
ourmile Creek near Fairplay, CO	06694700	12.0	1978-80
outh Platte River at Lake George, CO	06696200	1,084	1910-11,
			1929
arryall Creek at Upper Station near Como, CO	06696980	23.7	1978-86
rench Creek near Jefferson, CO	06697200	4.63	1986-90
	00007470		4070.00
lichigan Creek above Jefferson, CO	06697450	23.1	1978-86
efferson Creek near Jefferson, CO	06698000	11.8	1910-12,
			1978-86
arryall Creek near Jefferson, CO	06698500	183	1910-11,
			1912-17
			1977-81
	0000000	45.5	
ock Creek near Jefferson, CO	06699000	45.5	1986-90
arryall Creek near Lake George, CO	06699500	236	1910-12,
			1916,
			1925-55
outh Platte River above Cheesman Lake, CO	06700000	1,628	1899-1901,
The same of the sa	337 00000	.,0_0	1924-43
Conne Creak above Changer - L-II- CO	00700500	00.0	
loose Creek above Cheesman Lake, CO	06700500	86.6	1899,
			1924-82
outh Platte River above North Fork at South Platte, CO	06702000	2,098	1905-12
orth Fork South Platte River at Grant, CO	06702500	49.0	1910-17
orth Fork South Platte River at Pine, CO	06706500	374	1942-46
orth Fork South Platte River at South Platte, CO	06707000	479	1909-10,
			1913-82
outh Platte River at South Platte, CO	06707500	2,579	1887-92,
			1895-97,
,			
·			
	2072222	0.004	1898-1982
outh Platte River at Waterton, CO ast Plum Creek at Castle Rock, CO	06708000 06708750	2,621 102	

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

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Plum Creek near Louviers, CO	06709500	302	1947-90
South Platte River at Littleton, CO	06710000	3,069	1941-86
South Platte River at Union Avenue, at Englewood, CO	06710245	3,043	1989-95
Turkey Creek above Bear Creek Lake, near Morrison, CO	06711040	50.6	1986-89
South Platte River at Florida Avenue, at Denver, CO	06711590		1981-82
Cherry Creek near Melvin, CO	06712500	360	1939-69
South Platte River at 50th Avenue at Denver, CO	06714130	3,810	1980-81
Senac Creek at North Border Sludge Area, near Aurora, CO	06714220	7.81	1989-93
West Fork Clear Creek above Empire, CO	06715500	40.5	1942-46
West Fork Clear Creek near Empire, CO	06716000	58.2	1929-31
Clear Creek below Idaho Springs, CO	06718000	259	1951-55
North Clear Creek near Blackhawk, CO	06718500	52.2	1951-55
	06719300	339	
Clear Creek at Forks Creek, CO			1899-1912
Clear Creek near Golden, CO	06719500	399	1908-09,
	0071070	40=	1911-74
Clear Creek at Tabor Street, at Lakewood, CO	06719526	427	1981-83
Ralston Creek near Plainview, CO	06719725	36.9	1983-84
Schwartzwalder Mine Effluent near Plainview, CO	06719730		1983-84
Ralston Creek below Schwartzwalder Mine near Plainview, CO	06719735	38.9	1983-84
Ralston Creek above Ralston Reservoir near Golden, CO	06719740	42.7	1983-84
Clear Creek at Mouth near Derby, CO	06720000	575	1914,
			1927-82
Grange Hall Creek at Grant Park at Northglenn, CO	06720330		1978-79
Grange Hall Creek at Northglenn, CO	06720415	3.08	1978-81
Grange Hall Creek below Northglenn, CO	06720417		1981-82
First Creek below Buckley Road, near Rocky Mountain Arsenal, CO	06720460	26.4	1992-94
First Creek at Highway 2, near Rocky Mountain Arsenal, CO	06720490	39.0	1992-94
Woman Creek near Plainview, CO	06720690		1973-74
•			
South Platte River at Fort Lupton, CO	06721000	5,010	1906,
N		400	1929-57
North Saint Vrain Creek at Longmont Dam near Lyons, CO	06722000	106	1925-53
South Saint Vrain Creek near Ward, CO	06722500	14.4	1925-27,
			1928-31
			1954-73
Middle Saint Vrain Creek near Raymond, CO	06722900	16.8	1956-58
Middle Saint Vrain Creek near Allens Park, CO	06723000	28.0	1925-30, ^a
South Saint Vrain Creek above Lyons, CO	06723400	81.4	1971-80
Lefthand Creek near Boulder, CO	06724500	52.0	1929-31,
,			1947-53,
			1976-80
Lefthand Creek at Mouth at Longmont, CO	06725000	72.0	1927-42,
Estitiana Stock at Mount at Estigmont, 55	00120000	72.0	1953-55,
			1976-79
Coint Vrain Crack near Langment CO	06705400	270	
Saint Vrain Creek near Longmont, CO	06725100	370	1964-68
North Boulder Creek at Silver Lake, CO	06726000	8.70	1913-32
North Boulder Creek near Nederland, CO	06726500	30.4	1929-31
Bummers Gulch near El Vado, CO	06726900	3.87	1983-95
Fourmile Creek at Orodell, CO	06727500	24.1	1947-53,
			1983-95
South Boulder Creek near Rollinsville, CO	06729000	42.7	1910-18,
			1945-49
South Boulder Creek at Pinecliff, CO	06729300	72.7	1979-80
Coal Creek near Plainview, CO	06730300	15.1	1959-82
Boulder Creek at Mouth near Longmont, CO	06730500	439	1927-49,
· ·			1951-55
			1978-90
Boulder Brook near Estes Park, CO	06731800	3.83	1968-70
Glacier Creek near Estes Park, CO	06732000	20.8	1941-57,
Siddler Stock field Edico Fairt, GO	00732000	۷.0	1968-70
D D L 51 D L 00	22-222		
Beaver Brook near Estes Park, CO	06732300	1.49	1968-70
Fall River at Estes Park, CO	06732500	39.8	1945-53, ^a
Fish Creek near Estes Park, CO	06734500	15.8	1947-55
North Fork Big Thompson River at Drake, CO	06736000	85.1	1947-55
Big Thompson River below Power House near Drake, CO	06736500	278	1917-55
Dry Creek near Pinewood, CO	06740000	7.11	1950-52
→ The state of the state o		14.7	1947-53
Cottonwood Creek near Pinewood. CO	()6/4/()()		
Cottonwood Creek near Pinewood, CO Big Thompson River near Loveland, CO	06741000 06741500		
Cottonwood Creek near Pinewood, CO Big Thompson River near Loveland, CO Little Thompson River near Berthoud, CO	06741000 06741500 06742000	505 100	1947-55 1929-30,

WATER RESOURCES DATA - COLORADO, 1997 DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE ONLY STATIONS (Continued)

La Poudre River near Log Cabin, CO eek near Rustic, CO Fork Cache La Poudre near Eggers, CO Beaver Creek near Idylwilde, CO Beaver Creek near Rustic, CO Fork Cache La Poudre River near Rustic, CO La Poudre River below Elkhorn, CO Fork Cache La Poudre River near Livermore, CO ee Creek at Carr, CO ee Creek near Nunn, CO ee Creek near Rustic, CO Platte River at Masters, CO Platte River at Sublette, CO Creek at K-79 Reservoir near Eastonville, CO Creek at Elbert, CO Creek at Elbert, CO Creek at Bennett, CO Creek at Bennett, CO Creek near Wiggins, CO Creek near Wiggins, CO Creek near Wiggins, CO Platte River at Balzac, CO Platte River at Balzac, CO Platte River at Bould River near Wray, CO Fork Republican River near Idalia, CO man Creek near Hale, CO Fork Republican River near Hale, CO Ille Mine Drainage Tunnel at Leadville, CO Creek near Leadville, CO	Station number	Drainage area (sq mi)	Period of record (water years)
ittle Thompson River at Milliken CO	06743500	199	1951-55
·	06744000	830	1914-15,
big mompson river at would near La Salle, CO	00744000	030	,
0 0 0 0 0 0 0 0 0 0	00745000	00.7	1927-82
	06745000	89.7	1929-31
· ·	06746100	5.05	1974-78
Cache La Poudre River near Rustic, CO	06747500	198	1956-68
Cache La Poudre River near Log Cabin, CO	06748000	234	1909-11,
			1929-31
Fall Creek near Rustic, CO	06748200	3.59	1960-73
	06748500	70.6	1929-31
	06748510	0.88	1960-73
,	06748530	12.3	1960-73
	06748600	92.4	1956-79
Cache La Poudre River below Elkhorn, CO	06749000	409	1946-59
North Fork Cache La Poudre River near Livermore, CO	06751500	567	1947-65
onetree Creek at Carr, CO	06753400	167	1993-95
onetree Creek near Nunn, CO	06753500	199	1951-57
,	06753990	567	1993-95
*			
,	06756500	1,324	1951-57
South Platte River at Masters, CO	06756995	12,175	1976-88
South Platte River at Sublette, CO	06757000	12,170	1926-42,
			1943-55
Kiowa Creek at K-79 Reservoir near Eastonville, CO	06757600	3.20	1955-65
iowa Creek at Elbert, CO	06758000	28.6	1955-65
	06758100	35.9	1962-65
,	06758100		
•		111	1955-65
· ·	06758300	236	1960-65
ijou Creek near Wiggins, CO	06759000	1,314	1950-56
lijou Creek near Fort Morgan, CO	06759100	1,500	1976-87
outh Platte River at Fort Morgan, CO	06759500	14,810	1943-58
<u> </u>	06760000	16,852	1916-80
•	06760500	19,238	1953-58
,			
North Fork Republican River hear wray, CO	06822000	1,019	1937-46,
			1951-57,
			1962-64
South Fork Republican River near Idalia, CO	06825000	1,300	1950-71,
·			1972-81
andsman Creek near Hale, CO	06825500	268	1950-76,
and on an order ridio, o o	00020000		1977-81
Janny Basanyair naar Hala CO	06836000	4 000	
	06826000	1,820	1950-95
outh Fork Republican River near Hale, CO	06826500	1,825	1946-48,
			1951-86
eadville Mine Drainage Tunnel at Leadville, CO	07079200		1990-93
ast Fork Arkansas River near Leadville, CO	07079500	50.0	1890-1903,
			1910-24
aint Kovin Gulch above Temple Gulch, near Leadville, CO	07080980	1.84	1993-96
CHIESSEE CIEEK HEAF LEAUVIIIE, CO	07081000	48.0	1890-1903,
			1910-1924
ake Fork above Sugar Loaf Reservoir, CO	07082000	23.9	1946-67
alfmoon Creek near Leadville, CO	07083500	25.2	1911-14
rkansas River near Malta, CO	07083700	228	1964-67,
'			1976-84
rkaneae Biyor holow Empire Gulch, near Malta, CO	07083710	237	1990-93
. , , ,	07083710		
inalisas Rivel at Duella Vistà, CO	07087200	611	1964-80,
			1986-93
ottonwood Creek below Hot Springs near Buena Vista, CO	07089000	65.0	1910-23,
			1949-86
halk Creek Upper Station near Saint Elmo, CO	07090000	48.0	1913-19
Chalk Creek near Saint Elmo. CO	07090500	83.0	1910-16
.,	07091000		
Chalk Creek near Nathrop, CO	07091000	97.0	1910,
			1949-56, ^a
rkansas River at Salida, CO	07091500	1,218	1895-97,
			1901-03,
			1909-80
	07092000	140	1910-18
outh Δrkansas River at Poncha, CO			
	0700000		
oncha Creek at Poncha, CO	07093000	56.0	1910-18
South Arkansas River at Poncha, CO Poncha Creek at Poncha, CO South Arkansas River near Salida, CO	07093000 07093500	208	1922-23,
Poncha Creek at Poncha, CO			

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

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Middle Taylor Creek near Westcliffe, CO	07094900	3.19	1974-78,
D 0 1 D 11 1 00	07000400		1984-85
Beaver Creek near Portland, CO	07099100	214	1971-81
Arkansas River near Portland, CO	07099200	4,280	1964-79
Little Turkey Creek near Fountain, CO	07099220	9.59	1978-88
Arkansas River near Pueblo, CO	07099500	4,686	1885-87,
			1889,
			1894-1975
Monument Creek at Palmer Lake, CO	07103747	25.9	1977-90
Monument Creek at Monument, CO	07103750	28.5	1976-77
West Monument Creek near Pikeview, CO	07103900	15.4	1957-70
Kettle Creek near Black Forest, CO	07103950	9.01	1976-86
Templeton Gap Floodway at Colorado Springs, CO	07104500	8.73	1951-81
B Ditch Drain near Security, CO	07105780	0.73	1981-88
· · · · · · · · · · · · · · · · · · ·		 	
Clover Ditch near Widefield, CO	07105820		1981-88
Womack Ditch near Fort Carson, CO	07105924		1978-91
Little Fountain Creek near Fountain, CO	07105940	26.9	1978-88
Rock Creek near Fountain, CO	07105960	16.9	1978-88
Saint Charles River at San Isabel, CO	07107000	16.0	1936-41
Saint Charles River at Burnt Mill, CO	07107500	166	1923-34
Greenhorn Creek near Rye, CO	07107900	9.56	1974-79
Greenhorn Creek near Colorado City, CO	07108050	29.6	1974-79
Saint Charles River near Pueblo, CO	07108500	467	1941-53,
			1955
Saint Charles River near Vineland, CO	07108800	473	1968-74
Saint Charles River at Mouth near Pueblo, CO	07109000	475	1922-25
Sixmile Creek near Avondale, CO	07110000	45.0	1922-23
Sixillile Creek flear Avortdale, CO	07110000	45.0	
	07440500	004	1941-46
Chico Creek near North Avondale, CO	07110500	864	1941-46
Huerfano River at Manzanares Crossing near Redwing, CO	07111000	73.0	1923-82
Huerfano River at Malachite, CO	07111500	107	1923-25
Huerfano River near Badito, CO	07112000	499	1941-46
Huerfano River at Badito, CO	07112500	532	1912,
			1923-25,
			1938-41,
			1946-54
Huerfano River at Huerfano, CO	07113000	717	1923-28
Huerfano River near Mustang, CO	07113500	803	1942-47
Cucharas River at Boyd Ranch near La Veta, CO	07114000	56.0	1934-82
Cucharas River near La Veta. CO	07114500	75.0	1923-34
Huerfano River below Huerfano Valley Dam near Undercliffe, CO	07116000	1,673	1939-67
Arkansas River at Nepesta, CO	07117500	9,460	1898-1902,
Arkansas Kiver at Nepesta, CO	0/11/300	9,400	,
			1904-06,
	07447000	400	1936
Chicosa Creek near Fowler, CO	07117600	109	1968-74
Apishapa River near Aguilar, CO	07118000	126	1939-50
Apishapa River at Aguilar, CO	07118500	149	1938-39,
			1978-81
Apishapa River near White Rock, CO	07119000	737	1942-47
Big Arroyo near Thatcher, CO	07120620	15.5	1983-90 ^a
Timpas Creek near Rocky Ford, CO	07121000	451	1922-27,
, , , , , , , , , , , , , , , , , , ,			1940-50
Fort Lyon Canal near Casa, CO	07122060		1988-90
Fort Lyon Canal near Cornelia, CO	07122105		1988-90
Fort Lyon Canal near Hasty, CO	07122103		1968-75
off Lyon Gariai flear flasty, GO	07 122200		
	07400050		1988-90
Fort Lyon Canal near Big Bend, CO	07122350		1988-90
Crooked Arroyo near Swink, CO	07122400	108	1968-93
Crooked Arroyo near La Junta, CO	07122500		1922-25
Horse Creek near Sugar City, CO	07123500	1,080	1940-47
Horse Creek near Las Animas, CO	07123675	1,403	1979-93
Middle Fork Purgatoire River at Stonewall, CO	07124050	57.1	1978-81
Molino Canyon near Weston, CO	07124100	4.23	1978-81
Sarcillo Canyon near Segundo, CO	07124120	35.3	1978-81
Mulligan Canyon near Boncarbo, CO	07124210	4.53	1978-81
Reilly Canyon at Cokedale, CO	07124220	35.1	1978-81
Long Canyon Creek near Madrid, CO	07124300	100	1972-89
Carpios Canyon near Jansen, CO	07124350	4.57	1978-81

WATER RESOURCES DATA - COLORADO, 1997 DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE ONLY STATIONS (Continued)

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Purgatoire River at Trinidad, CO	07124500	795	1895-99,
angatono ravor at minada, e e	07.12.000		1905-12,
			1915-60,
			1961-82
Durantaine Birmana Harabara 00	07405000	0.57	
Purgatoire River near Hoehne, CO	07125000	857	1954-68
Frijole Creek near Alfalfa, CO	07125100	80.0	1957-68
San Francisco Creek near Alfalfa, CO	07125500	160	1954-68
Purgatoire River near Alfalfa, CO	07126000	1,320	1905-07,
			1924-28,
			1951-68
/an Bremer Arroyo near Thatcher, CO	07126130	80.6	1983-85
Burke Arroyo Tributary near Thatcher, CO	07126320	4.66	1983-87
Lockwood Canyon Creek near Thatcher, CO	07126390	41.4	1983-92 ^a
Red Rock Canyon Creek at Mouth, near Thatcher, CO	07126415	48.8	1983-90 ^a
Chacuaco Creek at Mouth, near Timpas, CO	07126470	424	1983-92 ^a
Bent Canyon Creek at Mouth near Timpas, CO	07126480	56.2	1983-90 ^a
	07128000		
Purgatoire River at Highland Dam near Las Animas, CO	07128000	3,376	1898,
	.=	40=	1931-55
Rule Creek near Caddoa, CO	07129500	435	1941-46
Caddoa Creek at Caddoa, CO	07131000	131	1941-46
Villow Creek near Lamar, CO	07133050	42.0	1974-77
tig Sandy Creek above Amity Canal near Korman, CO	07134000	3,396	1941-46
rkansas River at Holly, CO	07135500	25,073	1894,
,		,	1901-02,
			1907-53
Vild Horse Creek at Holly, CO	07136000	270	1922-35,
viid Florise Greek at Floriy, GO	07130000	210	
I-lly Paris are II-lly 60	07400500		1938-50
Holly Drain near Holly, CO	07136500		1924-50
Villow Creek at Creede, CO	08216500	51.7	1951-82
io Grande at Wason below Creede, CO	08217000	705	1907-54
Goose Creek near Wagonwheel Gap, CO	08218000	53.6	1924-26,
			1939-52
Goose Creek at Wagonwheel Gap, CO	08218500	90.0	1954-91
Pinos Creek near Del Norte, CO	08220500	53.0	1919-24,
			1936-82
San Francisco Creek at upper station near Del Norte, CO	08220900	11.8	1967-69
Rio Grande near Monte Vista, CO	08221500	1,590	1926-80
Rock Creek near Monte Vista, CO	08223500	32.9	1935-55,
tock Greek flear Worke Vista, GO	00223300	32.3	1966-70
San Luis Creek near Poncha Pass. CO	00224440	6.57	
	08224110	6.57	1979-85
San Luis Creek above Villa Grove, CO	08224113	11.2	1979-85
Raspberry Creek near Villa Grove, CO	08224200	1.78	1967-70
Kerber Creek at Ashley Ranch near Villa Grove, CO	08224500	38.0	1923-26,
			1936-82
Noland Gulch Tributary Reservoir Inflow, near Villa Grove, CO	08226600	0.08	1979-89
Cotton Creek near Mineral Hot Springs, CO	08226700	13.6	1967-70
Anaconda Reservoir near Villa Grove, CO	08227300	0.17	1979-85
Fracy Pit Reservoir Inflow near Saguache, CO	08227400	0.05	1979-89
North Crestone Creek near Crestone, CO	08227500	10.7	1936-82
Cottonwood Creek near Crestone, CO	08229500	6.77	1936,
Cottonwood Greek fiear Grestoffe, CO	00229300	0.77	
0 0 0	00000500	447	1967-70
Carnero Creek near La Garita, CO	08230500	117	1919-82
La Garita Creek near La Garita, CO	08231000	61.0	1919-82
Mosca Creek near Mosca, CO	08234200	3.67	1967-70
Alamosa Creek above Terrace Reservoir, CO	08236000	107	1911-12,
			1914-27
			1934-82
lamosa Creek below Terrace Reservoir, CO	08236500	116	1909-55
a Jara Creek at Gallegos Ranch near Capulin, CO	08238000	98.0	1916-17,
and the second s	55_55000	55.0	1919-23,
			1936-82
Vallow Warhlar Pasaryair Inflow pear Astonita CO	00220250	0.40	
/ellow Warbler Reservoir Inflow near Antonito, CO	08238350	0.18	1979-89
urkey Reservoir Inflow near Conejos, CO	08238380	0.24	1979-89
Sobolink Reservoir near Conejos, CO	08238400	0.23	1979-89
rinchera Creek above Turners Ranch near Fort Garland, CO	08240500	45.0	1923-82
Frinchera Creek above Mountain Home Reservoir near Fort Garland, CO	08241000	61.0	1923-55
Sangre De Cristo Creek near Fort Garland, CO	08241500	190	1916,
.,		-	1923-30,
			1931-82

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

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Ute Creek near Fort Garland, CO	08242500	32.0	1916,
			1923-82
Trinchera Creek below Smith Reservoir near Blanca, CO	08243500	396	1928-82
Conejos River at Platoro, CO	08245500	44.4	1936-53
Conejos River at Counsellors Cabin near Mogote, CO	08246000	211	1943-47
San Antonio River at mouth near Manassa, CO	08248500	348	1923-82
Culebra Creek near Chama, CO	08249400	72.4	1967-70
Culebra Creek at San Luis, CO	08250000	220	1927-82
Culebra Creek below San Luis, CO	08250500	255	1938-55
Rio Grande at CO-NM State Line	08252000		1953-82

a-Converted to a crest-stage partial-record station.

WATER RESOURCES DATA - COLORADO, 1997 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)	
Canadian River near Lindland, CO	06619400	44.0	Temp., S.C., Sed.	1978-83	
Canadian River near Brownlee, CO	06619450	158	Temp., S.C., Sed.	1978-83	
South Platte River at Littleton, CO	06710000	3,069	Temp.	1970-86	
			S.C.	1984-86	
South Platte River at 64th Ave. at Commerce City, CO	06714215	3,884	Temp., pH, D.O.	1987	
Clear Creek at Golden, CO	06719505	400	pH, D.O., Sed.	1981	
			Temp., S.C.	1981-95	
Ralston Creek near Plainview, CO	06719725	36.9	Temp., S.C., pH, D.O.	1983-84	
Schwartzwalder Mine Effluent near Plainview, CO	06719730		Temp., S.C., pH, D.O.	1983-84	
Ralston Creek below Schwartzwalder Mine, CO	06719735	38.9	Temp., S.C., pH, D.O.	1983-84	
Ralston Creek above Ralston Res. near Plainview, CO	06719740	42.7	Temp., S.C., pH, D.O.	1983-84	
Cache La Poudre River near Greeley, CO	06752500	1,877	Temp., S.C., pH, D.O.	1975	
South Platte River near Kersey, CO	06754000	8,598	Temp.	1950-53	
Kiowa Creek at Elbert, CO	06758000	28.6	Sed.	1957-68,	
, , , , , , , , , , , , , , , , , , , ,				1960-62,	
				1964-65	
West Kiowa Creek at Elbert, CO	06758100	35.9	Sed.	1962-65	
Kiowa Creek at Kiowa. CO	06758200	111	Sed.	1956-65	
South Platte River at Julesburg, CO	06763990		Temp.	1967-73	
(Chan. 2)	00.0000		S.C.	1971-73	
North Fork Republican River near Wray, CO	06822000	1,019	Temp., Sed.	1962-63	
East Fork Arkansas River at Highway 24 near Leadville, CO	07079300	49.9	Temp., S.C., pH	1990-96	
Arkansas River near Leadville, CO	07073300	98.8	Temp., S.C., pH	1990-96	
California Gulch at Malta, CO	07081800	8.13	Temp., S.C., pH	1991-92	
Halfmoon Creek near Malta, CO	07083000	23.6	Temp.	1967-82	
Arkansas River below Empire Gulch, near Malta, CO	07083710	237	Temp., S.C., pH	1990-93	
Arkansas River at Buena Vista, CO	07087200	611	Temp., S.C.	1986-93	
Arkansas River near Nathrop, CO	07091200	1,060	Temp., S.C., pH	1989-93	
Arkansas River at Parkdale, CO	07094500	2,548	Temp., S.C.	1986-93	
Fountain Creek near Pinon, CO	07106300	849	Temp., S.C.	1976-79	
Apishapa River at Aguilar, CO	07118500	149	Sed.	1979-81	
Apishapa River at Aguilar, CO Apishapa River near Fowler, CO	07119500	1,125	Temp., S.C.	1966-68	
Big Arroyo near Thatcher, CO	07120620	15.5	Temp., S.C., Sed.	1983-90 ^a	
Arkansas River near La Junta, CO	07122000	15.5	Temp., S.C., Sed.	1966-68	
Horse Creek near Las Animas, CO	07123675	1,403	Temp., S.C.	1987-93	
Middle Fork Purgatoire River at Stonewall, CO	07124050	52.1	Temp., S.C.	1978-81	
wilddie Fork Furgatolie River at Stoffewall, CO	07124030	J2.1	Sed.	1979-81	
Molino Canyon near Weston, CO	07124100	4.23	Sed.	1979-81	
Sarcillo Canyon near Segundo, CO	07124100	35.3	Sed.	1980-81	
Purgatoire River at Madrid, CO	07124200	550	Temp., S.C.	1979-81	
ruigatoire River at Madrid, CO	07124200	550	Sed.	1978-81	
Mulligan Canyon near Boncarbo, CO	07124210	4.53	Sed.	1979-81	
Reilly Canyon at Cokedale, CO	07124210	4.55 35.1	Sed. Sed.	1979-81	
	07124350	100	Sed. Sed.	1979-81	
Carpios Canyon near Jansen, CO					
Purgatoire River below Trinidad Lake, CO	07124410	672	Sed.	1977-82	
Luning Arroyo Tributary near Model, CO	07126110		Temp., S.C.	1984	
Van Bremer Arroyo near Thatcher, CO	07126130	80.6	Temp., S.C.	1985	
Purgatoire River near Thatcher, CO	07126300	1,791	Sed.	1983-92	
Burke Arroyo Tributary near Thatcher, CO	07126320	4.66	Temp., S.C.	1983-86	
	0740000	44.4	Sed.	1984-86	
Lockwood Canyon Creek near Thatcher, CO	07126390	41.4	Temp., S.C., Sed.	1989-92	
Red Rock Canyon Creek at Mouth, near Thatcher, CO	07126415	48.8	Temp., S.C.	1983-90 ^a	
Chacuaco Creek at Mouth near Timpas, CO	07126470	424	Temp., S.C., Sed.	1983-92	
Bent Canyon Creek at Mouth near Timpas, CO	07126480	56.2	Temp., S.C.	1983-90 ^a	
Purgatoire River at Rock Crossing near Timpas, CO	07126485	2,635	Temp., S.C., Sed.	1983-92	
Purgatoire River at Highland Dam near Las Animas, CO	07128000	3,376	S.C.	1967-68	
Purgatoire River near Las Animas, CO	07128500	3,318	Temp., S.C.	1986-96	
Willow Creek at Creede, CO	08216500	35.3	Temp., S.C.	1976-77	
Rio Grande at Wagonwheel Gap, CO	08217500	780	Temp., S.C.	1976-77	
San Luis Creek near Poncha Pass, CO	08224110	6.57	Sed.	1981-83	
San Luis Creek above Villa Grove, CO	08224113	11.2	Sed.	1981-83	
Rio Grande above Culebra Creek near Lobatos, CO	08249200		Temp., S.C.	1964-66	
				1964-66	

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

- The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.
- The reports listed below are for sale by the U.S. Geological Survey, Branch of Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."
- 1-D1. Water temperature--influential factors, field measurement, and data presentation, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
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HYDROLOGIC-DATA STATION RECORDS PLATTE RIVER BASIN

06614800 MICHIGAN RIVER NEAR CAMERON PASS, CO

 $LOCATION.--Lat~40^{o}29'46", long~105^{o}51'52", in~S^{1/2}~sec.12, T.6~N., R.76~W.~(unsurveyed), Jackson~County, Hydrologic~Unit~10180001, on right bank~500~ft~upstream~from~Michigan~ditch, 2.2~mi~southeast~of~Cameron~Pass, 8~mi~east~of~Gould, and~County~figures. The country of the count$ 27 mi southeast of Walden.

DRAINAGE AREA.--1.53 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 10,390 ft above sea level, from topographic map.

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

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.2 2.1 2.5 2.8 2.4	1.1 1.1 1.0 .99	e.55 e.53 e.52 e.52 e.51	e.45 e.45 e.45 e.45 e.45	e.40 e.40 e.40 e.40	e.34 e.34 e.33 e.33	e.35 e.35 e.35 e.35 e.35	e.45 e.45 e.45 e.45 e.48	11 14 19 22 24	16 15 14 13	6.1 5.5 5.8 5.7 7.4	2.6 2.4 3.1 3.8 3.4
6 7 8 9 10	2.2 2.1 2.0 1.9 1.8	.94 e.90 e.87 e.83 e.80	e.50 e.50 e.50 e.50 e.50	e.45 e.45 e.45 e.45 e.45	e.40 e.40 e.40 e.39 e.38	e.33 e.33 e.33 e.33	e.35 e.35 e.35 e.35 e.35	e.52 e.54 e.58 e.64 e.74	22 22 23 22 22	12 12 12 11 10	7.4 5.8 5.1 5.1 7.8	3.1 2.8 2.5 2.3 2.1
11 12 13 14 15	1.8 1.7 1.7 1.6 1.5	.76 .84 .77 e.70 e.70	e.50 e.50 e.50 e.50 e.50	e.44 e.43 e.42 e.42 e.41	e.38 e.37 e.36 e.36 e.35	e.33 e.32 e.33 e.33 e.33	e.35 e.35 e.35 e.35 e.35	e.90 e1.3 e1.7 e2.3 2.5	23 20 21 22 21	9.7 9.0 9.0 8.3 8.1	7.5 6.8 6.1 6.5 5.7	2.2 2.2 2.0 1.8 1.7
16 17 18 19 20	1.4 1.6 1.6 1.5	e.68 e.66 e.65 e.64 e.62	e.50 e.50 e.50 e.50 e.50	e.40 e.40 e.40 e.40	e.35 e.35 e.35 e.35 e.35	e.33 e.33 e.34 e.35	e.35 e.36 e.37 e.38 e.39	3.4 4.4 5.2 5.6 5.7	20 20 22 32 42	7.7 7.7 8.0 7.8 8.0	5.4 5.2 5.0 4.7 4.3	1.8 1.7 3.7 9.4
21 22 23 24 25	1.4 1.3 1.2 1.2	e.61 e.60 e.60 e.60	e.50 e.49 e.48 e.47 e.47	e.40 e.40 e.40 e.40	e.35 e.35 e.35 e.35	e.35 e.35 e.35 e.35	e.40 e.41 e.42 e.44 e.45	6.6 7.1 7.0 7.1 6.5	40 34 27 23 21	7.3 6.9 7.5 7.5 6.8	3.9 3.7 3.5 3.2 3.1	13 10 9.1 8.4 7.5
26 27 28 29 30 31	1.2 1.2 1.2 e1.2 e1.2	e.60 e.60 e.59 e.57	e.46 e.46 e.45 e.45 e.45	e.40 e.40 e.40 e.40 e.40	e.35 e.35 e.35 	e.35 e.35 e.35 e.35 e.35	e.45 e.45 e.45 e.45 e.45	5.9 5.4 5.2 5.3 6.0 8.0	21 19 19 18 17	6.2 5.7 5.6 5.6 6.0 6.8	3.0 2.9 2.8 2.9 2.6 2.5	7.1 6.5 5.7 5.0 4.6
TOTAL MEAN MAX MIN AC-FT	51.4 1.66 2.8 1.2 102	22.50 .75 1.1 .57 45	15.26 .49 .55 .45 30	13.02 .42 .45 .40 26	10.34 .37 .40 .35 .21	10.49 .34 .35 .32 21	11.47 .38 .45 .35 23	108.40 3.50 8.0 .45 215	683 22.8 42 11 1350	282.2 9.10 16 5.6 560	153.0 4.94 7.8 2.5 303	144.5 4.82 13 1.7 287
MEAN MAX (WY) MIN (WY)	.85 1.94 1983 .32 1980	.55 1.11 1996 .20 1979	.43 .88 1996 .25 1979	.36 .57 1988 .17 1991	.31 .55 1986 .16 1977	.33 .86 1986 .17 1974	.41 .80 1994 .22 1982	3.78 9.50 1974 .70 1995	16.9 27.1 1990 10.9 1992	9.42 24.8 1995 2.06 1994	2.85 6.83 1983 1.20 1988	1.45 4.82 1997 .49 1988
SUMMARY	STATIST	ICS	FOR	1996 CALE	NDAR YEAR	E	FOR 1997 W	NATER YEAR		WATER Y	EARS 1974	- 1997
LOWEST		EAN		1474.3 4.0			1505.5 4.1 42			3.1 4.6 1.9	1 7	1983 1977 14 1995
LOWEST	DAILY ME			e.4	0 Mar 27 2 Mar 21		e.3	32 Mar 12		.0	8 Nov 4 Jan	16 1989 9 1979
		EAK FLOW					60 3.7	Jun 20		a,b ₁₁₅ b,c ₃ .6	Jul	12 1995 12 1995
ANNUAL	RUNOFF (ENT EXCE			2920 10			2990 12	70 Jun 20		2280 10	JUL	17 1332
50 PERC	CENT EXCE	EDS		1.0	3		. 8			.6		

e-Estimated.

a-From rating curve extended above 82 ft³/s. b-Also occurred Jul 13, 1995. c-Maximum gage height, 3.70 ft, Jun 20, 1997.

06620000 NORTH PLATTE RIVER NEAR NORTHGATE, CO

LOCATION.--Lat 40°56'15", long 106°20'16", in NE1/4 SW1/4 SE1/4 sec.11, T.11 N., R.80 W., Jackson County, Hydrologic Unit 10180001, on right bank 1,000 ft downstream from bridge on State Highway 125, 0.7 mi upstream from Camp Creek, 4.2 mi northwest of Northgate, and 4.4 mi south of Colorado-Wyoming State line.

DRAINAGE AREA.--1,431 mi².

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

REVISED RECORDS.--WSP 1310: 1916-21, 1929(M), 1930-32. WSP 1730: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 7,810.39 ft above sea level. See WSP 1730 for history of changes prior to Apr. 8, 1918. Apr. 8, 1918 to Aug. 21, 1961, water-stage recorder at site 0.7 mi downstream at datum 3.36 ft lower. Aug. 22, 1961 to Sept. 18, 1984, at site 650 ft upstream at same datum.

REMARKS.--Records good except for June 5 to July 17, which are fair, and for estimated daily discharges, which are poor. Diversions for irrigation of about 130,000 acres of hay meadows upstream from station. Transbasin diversions upstream from station to Cache la Poudre River basin. National Weather Service satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES										
DAY OCT	NOV DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 153 2 151 3 147 4 140 5 143	209 223 201 209 192 174 211 e185 215 e205	e210 e220 e210 e200 e170	e170 e160 e150 e140 e145	e140 e145 e140 e125 e125	781 656 660 732 709	1940 1580 1250 1090 1120	3010 3060 3500 3940 4260	1070 1020 908 921 925	787 674 539 451 422	236 251 240 222 236
7 127 8 124 e 9 118	178 e200 141 e210 250 e220 235 e230 249 e250	e150 e130 e135 e140 e150	e140 e140 e140 e140 e145	e130 e130 e130 e140 e150	547 510 532 529 507	1360 1600 1810 2050 2210	4070 3920 3710 3650 3630	893 834 785 785 835	483 586 530 441 454	239 228 240 242 220
11 111 12 106 13 99 14 97 15 100	239 e230 251 e220 253 e200 231 e170 218 e155	e140 e125 e135 e140 e145	e150 e160 e160 e150 e155	e160 e175 e170 e160 e180	423 402 455 382 408	2210 2270 2280 2210 2260	3500 3270 3180 2850 2460	878 831 794 840 753	602 650 604 554 633	199 195 246 234 205
17 97 18 e105 19 124 e	188 e150 148 e140 240 e130 e300 e140 358 e150	e150 e160 e165 e165 e170	e160 e165 e170 e165 e160	e210 e260 e300 e360 e470	500 697 990 1260 1490	2320 2360 2540 2830 2830	2230 2070 1970 1990 2090	710 642 632 699 759	515 419 371 387 411	191 193 191 441 1540
21 120 22 102 23 102 24 113 25 116 e	368 e170 405 e170 468 e160 404 e160 2290 e170	e160 e160 e150 e140 e150	e150 e145 e145 e140 e140	e670 e1000 e1700 e1500 e1400	1680 1710 1510 1330 1180	2800 2750 2840 3130 3830	2410 2750 2740 2440 2140	695 636 608 541 547	372 339 311 289 276	2700 3370 2750 1490 1110
	e270 e180 253 e190 235 e200 276 e200 258 e205 e205	e160 e150 e150 e145 e150 e160	e140 e145 e150 	e1200 e1100 e1000 e950 885 808	1070 1150 1220 1550 1960	3530 3200 2780 2310 2240 2520	1810 1450 1300 1240 1190	523 480 474 526 585 764	266 275 274 270 256 248	889 826 885 727 622
MEAN 124 MAX 184 MIN 97	7734 5801 258 187 468 250 141 130 3340 11510	4885 158 220 125 9690	4220 151 170 140 8370	16013 517 1700 125 31760	27530 918 1960 382 54610	72050 2324 3830 1090 142900	81830 2728 4260 1190 162300	22893 738 1070 474 45410	13689 442 787 248 27150	21358 712 3370 191 42360
MEAN 160 MAX 538 (WY) 1962 1 MIN 31.7 5	151 102 366 200 .962 1928 44.2 33.9 .935 1977	82.6 177 1984 27.5 1977	87.9 199 1986 35.7 1933	172 722 1986 47.8 1964	762 2444 1962 131 1981	1154 3649 1984 212 1981	1497 3296 1983 89.4 1934	645 2367 1957 26.7 1934 WATER YE	268 763 1983 38.5 1934	152 712 1997 23.8 1934
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MI INSTANTANEOUS PEAK INSTANTANEOUS PEAK ANNUAL RUNOFF (AC-F 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS	I INIMUM FLOW STAGE	232420 635 3760 a ₈₁ 85 461000 1990 193	Apr 11 Sep 18 Sep 13	F	281856 772 4260 b ₉₇ 101 4390 6.52 559100 2310 274 140	Jun 5 Oct 14 Oct 12 Jun 5		438 878 117 6450 C19 20 6720 f9.65 317200 1240 161 68	Jun Jul Jul Jun	1917 1977 10 1923 17 1934 15 1934 11 1923 25 1980

e-Estimated.

a-Also occurred Sep 19. b-Also occurred Oct 17. c-Also occurred Jul 18-19, 1934. d-Gage height 6.24 ft, site and datum then in use.

f-Backwater from ice jam.

06696000 SOUTH PLATTE RIVER NEAR LAKE GEORGE, CO

 $LOCATION.--Lat~38^o54'19", long~105^o28'22", in~SW^1/_{4}sec.~20, T.13~S., R.72~W., Park~County, Hydrologic~Unit~10190001, on~left~bank~700~ft~downstream~from~Elevenmile~Canyon~Reservoir~and~8.2~mi~southwest~of~town~of~Lake~George.$

DRAINAGE AREA.--963 mi².

PERIOD OF RECORD.--October 1929 to current year. Monthly discharge only for some periods, published in WSP 1310. REVISED RECORDS.--WSP 1730: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, and Parshall flume. Elevation of gage is 8,458 ft above sea level, from topographic map. Prior to Oct. 26, 1940, at site 1 mi downstream at datum 8,423.95 ft, above sea level, adjustment of 1912.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by transmountain diversions through East and West Hoosier ditches at Hoosier Pass prior to 1941, storage in Elevenmile Canyon Reservoir (see elsewhere in this report) and Antero Reservoir, capacity, 22,300 acre-ft, diversions for irrigation, and return flow from irrigated areas.

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

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	98 96 97 97 101	98 99 100 102 101	108 111 110 112 112	109 108 110 111 109	86 85 84 81	86 85 84 83 82	158 162 162 162 164	94 91 85 75 69	99 110 125 143 173	375 348 337 329 317	251 231 230 241 242	180 191 198 205 214
6 7 8 9 10	103 103 103 101 101	101 105 97 97 93	112 116 115 116 118	111 108 107 106 103	82 83 83 83 83	80 79 78 76 75	154 150 144 142 136	67 67 65 67 68	205 256 303 329 359	301 296 286 274 265	245 248 257 274 285	226 222 223 218 210
11 12 13 14 15	100 99 98 99 103	93 91 90 92 90	118 117 118 119 118	99 100 100 99 99	81 82 83 82 82	74 74 73 72 72	141 140 140 140 134	67 72 73 71 73	362 364 340 306 261	257 253 251 246 245	294 286 274 255 238	204 199 192 188 186
16 17 18 19 20	105 109 108 108 109	90 92 93 92 89	119 119 116 113 114	97 97 95 95 95	81 82 80 81 82	70 69 68 68 70	123 114 105 100 95	75 76 75 72 78	223 194 168 150 133	241 239 253 260 270	222 204 192 176 165	185 178 178 170 166
21 22 23 24 25	108 110 102 101 96	86 89 87 88 89	113 112 112 110 110	95 95 94 94 94	86 85 86 87 86	77 85 92 97 104	93 90 89 95 97	82 94 99 113 119	130 145 173 211 255	279 300 298 312 297	152 140 133 125 122	168 166 160 159 155
26 27 28 29 30 31	95 95 98 105 95	88 96 98 101 105	110 108 107 107 107 108	93 92 94 93 91 88	86 86 85 	122 133 139 145 151 157	94 92 92 96 95	119 112 106 104 95 92	304 357 383 391 390	286 278 280 286 284 257	129 137 153 166 169 173	151 135 117 105 102
TOTAL MEAN MAX MIN AC-FT	3138 101 110 95 6220	2832 94.4 105 86 5620	3505 113 119 107 6950	3081 99.4 111 88 6110	2334 83.4 87 80 4630	2820 91.0 157 68 5590	3699 123 164 89 7340	2615 84.4 119 65 5190	7342 245 391 99 14560	8800 284 375 239 17450	6409 207 294 122 12710	5351 178 226 102 10610
STATIST	ICS OF MO	ONTHLY MEAI	N DATA FO	OR WATER	YEARS 1930	- 1997	, BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	56.6 221 1931 2.12 1941	43.1 166 1955 2.26 1940	29.5 113 1997 2.20 1940	27.4 133 1990 1.50 1933	28.3 117 1990 1.00 1933	41.9 201 1986 3.00 1933	94.5 436 1970 7.08 1939	96.0 775 1970 4.77 1961	149 614 1949 7.78 1961	190 786 1995 16.9 1940	156 459 1984 14.8 1940	77.8 288 1930 4.73 1953
SUMMARY	STATIST	ICS	FOR :	1996 CALEI	NDAR YEAR	I	FOR 1997 WA	TER YEAR		WATER YE	EARS 1930	- 1997
LOWEST HIGHEST	MEAN ANNUAL M ANNUAL MI DAILY MI	EAN EAN		51910 142 404 a ₄₇	May 26		51926 142 391	Jun 29		83.4 218 14.1 2820 b.00	Apr	1970 1940 28 1970
ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	ANEOUS PI	Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		103000 233 112 62	Feb 12 Feb 9		65 67 395 3.30 103000 272 108 81	May 8 May 5 Jun 29 Jun 29		1.0 3000 8.34 60450 211 45 8.5	Feb Apr	5 1935 1 1933 28 1970 28 1970

a-Also occurred Feb 13-15. b-No flow at times in Jan 1930, Feb 1931, and Nov 1935.

06697100 TARRYALL CREEK BELOW PARK GULCH NEAR COMO, CO

 $LOCATION.--Lat\ 39^{o}16'54", long\ 105^{o}47'13", in\ NW^{1}/4SW^{1}/4\ sec.9,\ T.9\ S.,\ R.75\ W.,\ Park\ County,\ Hydrologic\ Unit\ 10190001,\ on\ left\ bank\ 300\ ft\ downstream\ from\ confluence\ with\ Park\ Gulch,\ and\ 6.5\ mi\ southeast\ of\ Como.$

DRAINAGE AREA .-- Not determined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD .-- May to September 1997.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,260 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by minor transmountain diversion from Colorado River basin through Boreas Pass ditch, diversions for irrigation, and return flow from irrigated areas.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period May to September, 173 ft³/s, June 9, at 1115, gage height, 5.91 ft; minimum daily, 11 ft³/s, Sept. 28-30.

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

				- ,		DAILY MEAN VALUES						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									50	56	47	e25
2									70	50	50	e30
3									83	46	37	e50
4									90	40	39	e33
5									104	36	38	e27
6									122	33	43	e25
7									147	32	51	e23
8									138	32	40	e22
9								23	163	32	33	e21
10								24	143	31	35	e20
11								26	125	29	33	e24
12								30	109	30	30	e21
13								30	115	27	e29	e19
14								34	118	25	e28	e19
15								37	103	23	e26	e17
16								42	99	e23	e25	e16
17								44	99	e22	e24	e15
18								46	97	e23	e30	e16
19								51	98	e25	e28	e15
20								51	102	e31	e25	e17
21								52	102	e27	e23	e23
22								62	130	e26	e21	e21
23								55	108	e26	e19	e19
24								45	100	e26	e18	e16
25								42	92	e26	e17	13
26								40	86	26	e24	13
27								35	81	29	e35	12
28								33	67	40	e34	11
29								33	65	41	e26	11
30								40	61	47	e24	11
31								43		41	e25	
TOTAL									3067	1001	957	605
MEAN									102	32.3	30.9	20.2
MAX									163	56	51	50
MIN									50	22	17	11
AC-FT									6080	1990	1900	1200

e-Estimated.

06697100 TARRYALL CREEK BELOW PARK GULCH NEAR COMO, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--April to September 1997.

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
APR 17	1130	7.8	270	8.0	9.5	9.0	120	34	7.3	7.1
MAY 21	0910	53	193	8.2	5.5	9.1	88	27	5.2	2.8
JUN 10	0920	144	234	8.5	7.5	8.1	110	32	6.8	4.7
JUL 25	0850	29	199	8.3	12.5	7.4	95	30	4.8	2.5
AUG 13	1120	32	196	8.4	10.5	8.4	93	30	4.6	2.6
SEP										
18	0750	16	213	8.2	9.0	8.5	100	32	5.5	3.0
DATE	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-b LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)
APR	,	, ,	, ,	, ,	, ,	, ,	, ,	, ,	,,	,
17 MAY	0.3	1.1	138	113	35	0.9	0.1	6.7	161	160
21	0.1	1.0	106	87	13	0.4	<0.1	9.1	112	110
10 JUL	0.2	1.1	121	99	19	0.5	0.1	11	148	134
25 AUG	0.1	0.7	117	96	9.5	0.2	<0.1	8.5	120	114
13 SEP	0.1	0.6		81	11	0.2	<0.1	8.0	120	94
18	0.1	0.8	113	95	13	0.4	<0.1	8.0	126	117
DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
APR 17	0.22	3.39	<0.01	0.06	<0.01	<0.2	<0.2	0.02	<0.01	<0.01
MAY 21	0.22	16.1	<0.01	<0.05	<0.01	0.5	<0.2	0.02	<0.01	<0.01
JUN 10	0.15	57.5	<0.01	<0.05	<0.01	0.3	0.3	<0.09	<0.01	<0.01
JUL 25	0.20	9.33	<0.01	<0.05	<0.01	<0.4	<0.2	<0.01	<0.01	<0.01
25 AUG 13	0.16	10.2	<0.01	<0.05	<0.01	0.2	<0.2	0.01	<0.01	<0.01
SEP 18	0.10	5.41	<0.01	<0.05	<0.01	<0.2	<0.2	<0.02	<0.01	<0.01

06697100 TARRYALL CREEK BELOW PARK GULCH NEAR COMO, CO--Continued

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

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
APR 17	1	<1	<1	70	<1	<1	1	<1	1	72
MAY 21	3	<1	<1	60	<1	<1	2	<1	2	68
JUN 10	3	<1	<1	57	<1	<1	2	<1	1	42
JUL 25	3	<1	<1	75	<1	<1	2	<1	1	110
AUG 13 SEP	2	<1	<1	69	<1	<1	<1	<1	1	110
18	2	<1	<1	78	<1	<1	<1	<1	<1	58
DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)
APR 17	DIS- SOLVED (UG/L AS PB)	NESE, DIS- SOLVED (UG/L AS MN)	DENUM, DIS- SOLVED (UG/L AS MO)	DIS- SOLVED (UG/L AS NI)	NIUM, DIS- SOLVED (UG/L AS SE)	DIS- SOLVED (UG/L AS AG)	DIS- SOLVED (UG/L AS ZN)	NATURAL DIS- SOLVED (UG/L AS U)	ORGANIC TOTAL (MG/L AS C)	ORGANIC DIS- SOLVED (MG/L AS C)
APR 17 MAY 21	DIS- SOLVED (UG/L AS PB) (01049)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	DENUM, DIS- SOLVED (UG/L AS MO) (01060)	DIS- SOLVED (UG/L AS NI) (01065)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	DIS- SOLVED (UG/L AS AG) (01075)	DIS- SOLVED (UG/L AS ZN) (01090)	NATURAL DIS- SOLVED (UG/L AS U) (22703)	ORGANIC TOTAL (MG/L AS C)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)
APR 17 MAY 21 JUN 10	DIS- SOLVED (UG/L AS PB) (01049)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	DENUM, DIS- SOLVED (UG/L AS MO) (01060)	DIS- SOLVED (UG/L AS NI) (01065)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	DIS- SOLVED (UG/L AS AG) (01075)	DIS- SOLVED (UG/L AS ZN) (01090)	NATURAL DIS- SOLVED (UG/L AS U) (22703)	ORGANIC TOTAL (MG/L AS C) (00680)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)
APR 17 MAY 21 JUN 10 JUL 25	DIS- SOLVED (UG/L AS PB) (01049)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	DENUM, DIS- SOLVED (UG/L AS MO) (01060)	DIS- SOLVED (UG/L AS NI) (01065)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	DIS- SOLVED (UG/L AS AG) (01075)	DIS- SOLVED (UG/L AS ZN) (01090)	NATURAL DIS- SOLVED (UG/L AS U) (22703)	ORGANIC TOTAL (MG/L AS C) (00680)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)
APR 17 MAY 21 JUN 10 JUL	DIS- SOLVED (UG/L AS PB) (01049)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	DENUM, DIS- SOLVED (UG/L AS MO) (01060)	DIS- SOLVED (UG/L AS NI) (01065)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	DIS- SOLVED (UG/L AS AG) (01075)	DIS- SOLVED (UG/L AS ZN) (01090)	NATURAL DIS- SOLVED (UG/L AS U) (22703) <1 1	ORGANIC TOTAL (MG/L AS C) (00680)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	
MAY					
21	0910	53	91	13	69
JUN 10	0920	144	15	5.8	50
JUL	0920	144	13	5.0	30
25	0850	29	16	1.3	89
AUG					
13	1120	32	15	1.2	87
SEP 18	0750	16	8	0.32	85
10	0/30	10	0	0.34	0.5

06699005 TARRYALL CREEK BELOW ROCK CREEK, NEAR JEFFERSON, CO

LOCATION .-- Lat 39°17'13", long 105°41'43", in NW1/4NW1/4 sec. 8, T.9 S., R.74 W., Park County, Hydrologic Unit 10190001, on left bank 1,800 ft downstream from Rock Creek, 1.0 mi northwest of Bordenville, and 9 mi southeast of Jefferson.

DRAINAGE AREA.--230 mi².

PERIOD OF RECORD.--April 1983 to September 1997 (discontinued).

REVISED RECORDS.--WDR CO-86-1: Drainage area. WDR CO-87-1: 1986 (M).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,020 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this

			DISCI	HARGE, CUBI	C FEET PER		WATER YEAR MEAN VALU		1996 TO SE	EPTEMBER 19	97	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	29 29 29 29 28	24 23 24 25 21	e12 e11 e10 e10 e9.8	e8.2 e8.6 e9.0 e9.4 e9.0	e7.2 e7.4 e7.4 e7.4 e7.4	e6.8 e6.8 e6.2 e6.2	e11 e12 e14 e14 e15	46 36 34 35 44	167 214 265 286 319	166 153 142 134 128	151 169 124 120 121	79 96 149 107 106
6 7 8 9 10	27 27 26 26 26	18 22 29 20 e20	e9.8 e10 e10 e11 e12	e8.6 e8.2 e8.2 e8.4 e8.6	e7.4 e7.0 e7.0 e7.2 e7.2	e6.2 e6.2 e6.2 e6.2 e6.0	e17 e19 21 23 26	51 56 60 62 66	362 468 429 516 450	122 124 120 121 113	146 164 127 104 119	77 74 65 58 57
11 12 13 14 15	26 26 26 25 25	e21 e22 e22 e21 e21	e12 e12 e12 e12 e12	e9.0 e9.0 e9.0 e8.8 e8.6	e7.2 e7.2 e7.2 e7.0 e7.0	e5.2 e5.2 e5.4 e5.6 e5.6	24 33 26 20 24	71 80 78 76 76	389 332 372 428 334	112 115 103 96 89	116 102 95 94 84	66 65 54 50 49
16 17 18 19 20	25 28 27 32 31	e22 e22 e21 e19 e18	e12 e12 e11 e11	e8.4 e8.2 e8.4 e8.4	e7.2 e7.4 e7.8 e7.8 e8.0	e6.0 e5.6 e6.0 e7.0 e8.0	27 39 47 49 52	88 100 106 118 131	306 318 301 307 316	85 84 93 107 113	74 73 98 84 76	49 48 45 43 54
21 22 23 24 25	18 23 33 27 27	e18 e19 e17 e16 e16	e11 e11 e11 e11	e8.4 e8.4 e8.2 e8.0	e8.0 e8.0 e7.8 e7.6 e7.4	e8.4 e8.8 e9.2 e10 e9.4	60 49 43 47 36	135 208 193 163 152	314 423 341 319 285	100 96 96 103 93	72 69 64 60 75	66 61 53 51 46
26 27 28 29 30 31	28 25 26 25 24 25	e16 e16 e15 e14 e13	e10 e10 e10 e10 e9.0 e8.8	e8.0 e8.6 e8.8 e7.8 e7.4	e7.0 e6.8 e6.6 	e9.0 e9.0 e11 e11 e10 e10	43 45 63 66 58	140 123 112 115 139 145	258 242 217 202 186	90 95 133 143 159 131	88 107 110 92 72 80	44 45 40 38 37
TOTAL MEAN MAX MIN AC-FT	828 26.7 33 18 1640	595 19.8 29 13 1180	334.4 10.8 12 8.8 663	261.8 8.45 9.4 7.4 519	205.6 7.34 8.0 6.6 408	229.0 7.39 11 5.2 454	1023 34.1 66 11 2030 BY WATER Y	3039 98.0 208 34 6030	9666 322 516 167 19170	3559 115 166 84 7060	3130 101 169 60 6210	1872 62.4 149 37 3710
MEAN MAX (WY) MIN (WY)	27.9 59.4 1985 13.8 1993	17.5 31.8 1985 12.2 1995	11.0 17.9 1984 5.48 1988	8.06 12.5 1987 3.02 1988	8.97 20.5 1985 5.00 1992	12.4 29.2 1985 7.39 1997	34.5 85.4 1987 17.6 1984	81.8 148 1987 39.4 1986	183 457 1995 76.5 1992	118 407 1995 37.4 1994	76.1 161 1984 26.7 1994	40.8 83.0 1983 17.8 1992
SUMMARY	STATISTI	CS	FOR	1996 CALEN	IDAR YEAR	F	OR 1997 WAT	CER YEAR		WATER YE	ARS 1983	- 1997
LOWEST A	MEAN ANNUAL M ANNUAL ME. DAILY ME.	AN AN		18302.4 50.0 383 e8.8	Jun 16		24742.8 67.8 516 e,a _{5.2}	Jun 9		50.8 106 27.1 797 b3.0		1995 1992 30 1995
ANNUAL SINSTANTS INSTANTS ANNUAL SINSTANTS ANNUAL SINSTANTS 50 PERCS	DAILY MEASEVEN-DAY ANEOUS PE ANEOUS PE RUNOFF (A ENT EXCEE ENT EXCEE	MINIMUM AK FLOW AK STAGE C-FT) DS DS		36300 155 26 12	Dec 31 Dec 25		5.2 5.5 542 5.39 49080 161 27 7.4	Mar 11 Mar 11 Jun 9 Jun 9		3.0 3.0 850 6.18 36800 132 26 7.8	Jan Jun 3	3 1988 3 1988 30 1995 30 1995

e-Estimated.
a-Also occurred Mar 12.
b-Also occurred Jan 4-29, 1988.
c-Maximum gage height, 7.00 ft, Apr 19, 1987, from floodmarks.

RESERVOIRS IN SOUTH PLATTE RIVER BASIN

06695500 ELEVENMILE CANYON RESERVOIR.--Lat 38°54'19", long 105°28'30", in N¹/2SW¹/4 sec. 20, T.13 S., R.72 W., Park County, Hydrologic Unit 10190001, at north end of dam on South Platte River, 8 mi southwest of Lake George. DRAINAGE AREA, 963 mi². PERIOD OF RECORD, October 1932 to current year. Prior to September 1938, published in WSP 1310. REVISED RECORDS, WSP 1730: Drainage area. GAGE, nonrecording gage read once daily. Datum of gage is 8,597.00 ft above sea level, (levels by Denver Board of Water Commissioners); gage readings published are to datum.

Reservoir is formed by concrete arch dam; storage began in October 1932; dam completed in November 1932. Spillway

Reservoir is formed by concrete arch dam; storage began in October 1932; dam completed in November 1932. Spillway built 5.00 ft higher, Aug. 1, 1957. Capacity, 97,780 acre-ft, between elevations 8,488.25 ft, invert of outlet pipe, and 8,597.00 ft, crest of spillway. Dead storage is negligible. Figures given represent total contents. Water is for municipal use by city of Denver. Records provided by Denver Board of Water Commissioners.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 111,200 acre-ft, Apr. 28, 1970, elevation, 8,600.82 ft; no contents at times in 1935.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 102,800 acre-ft, June 28, 29, elevation, 8,598.45 ft; minimum observed, 99,450 acre-ft, May 5-7, 10, elevation, 8,597.49 ft.

06701000 CHEESMAN LAKE.--Lat 39°12'26", long 105°16'18", in NW¹/4SW¹/4 sec.6, T.10 S., R.70 W., Douglas County, Hydrologic Unit 10190002, at dam on South Platte River, 4.1 mi southwest of Deckers. DRAINAGE AREA, 1,752 mi². PERIOD OF RECORD, September 1900 to December 1901, September 1902 to current year. Prior to October 1938, published in WSP 1310. Published as Lake Cheesman prior to 1947. REVISED RECORDS, WSP 1730: Drainage area. GAGE, nonrecording gage read once daily. Datum of gage is 6,834.91 ft above sea level, (levels by Denver Board of Water Commissioners); gage readings published are to datum.

Reservoir is formed by masonry dam. Storage began September 1900. Dam completed about October 1902. Capacity, 79,060 acre-ft at gage height 212 ft, spillway crest, above sill of lowest gate. No dead storage. Figures given represent total contents. Water is for municipal use by city of Denver. Records provided by Denver Board of Water Commissioners. EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 81,360 acre-ft, Apr. 29, 1970, gage height, 214.60 ft,

minimum observed since appreciable storage was attained, 3,650 acre-ft, Apr. 20, 1933, gage height, 55.02 ft. EXTREMES FOR CURRENT YEAR: Maximum contents observed, 79,420 acre-ft, July 4, gage height, 212.41 ft; minimum observed, 60,680 acre-ft, Oct. 14, gage height, 189.25 ft.

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

	Elevation	Contents	Change in	Gage	Contents	Change in
Date			contents	height		contents
	a _(feet)	(acre-feet)	(acre-feet)	(feet)	(acre-feet)	(acre-feet)
06695500	ELEVENMILE CAN	YON RESERVOIR		067	01000 CHEESMAN	LAKE
Sept. 30	8,597.62	99,900	-	190.05	61,280	-
Oct. 31	8,597.67	100,100	+200	191.04	62,020	+740
Nov. 30	8,597.68	100,100	0	195.05	65,090	+3,070
Dec. 31	8,597.68	100,100	0	196.87	66,510	+1,420
CAL YR 1996	_	-	+130	_	_	-7,270
						,
Jan. 31	8,597.65	100,000	-100	197.02	66,630	+120
Feb. 28	8,597.60	99,830	-170	196.04	65,860	-770
Mar. 31	8,597.85	100,700	+870	194.39	64,580	-1,280
Apr. 30	8,597.60	99,830	-870	193.35	63,780	-800
May 31	8,597.64	99,970	+140	193.34	63,770	-10
June 30	8,598.42	102,700	+2,730	212.22	79,260	+15,490
July 31	8,598.10	101,600	-1,100	212.22	79,260	0
Aug. 31	8,597.95	101,000	-600	210.18	77,480	-1.780
Sept. 30	8,597.67	100,100	-900	210.61	77,860	+380
-	•				,	
WTR YR 1997	_	_	+200	_	_	+16,580
WIR IR 1997	=	_	+200	_	_	110,300

a-Above sea level.

06701500 SOUTH PLATTE RIVER BELOW CHEESMAN LAKE, CO

LOCATION.--Lat 39°12'33", long 105°16'02", in SE1/4NW1/4 sec.6, T.10 S., R.70 W., Jefferson County, Hydrologic Unit 10190002, on left bank 1,400 ft downstream from toe of Cheesman Dam, and 3.8 mi southwest of Deckers.

DRAINAGE AREA.--1,752 mi².

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

REVISED RECORDS.--WSP 1310: 1949. WSP 1730: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, and Parshall flume. Datum of gage is 6,609.29 ft above sea level. Prior to May 14, 1956, at site 370 ft upstream at datum 0.50 ft higher.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by minor transmountain diversion from Colorado River basin through Boreas Pass ditch, Elevenmile Canyon Reservoir and Cheesman Lake (see elsewhere in this report), diversions for irrigation of about 40,000 acres, and return flow from irrigated areas.

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

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

			DISCI	IARGE, CUI	SIC FEET PER		, WATER YEA Y MEAN VALI		R 1996 TO	SEPTEMBER I	1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	76	51	96	108	166	169	130	302	589	428	256
2	182	76	64	97	108	166	170	131	302	545	414	195
3	135	76	92	98	108	166	170	131	302	487	419	124
4	98	61	101	98	108	166	211	130	302	481	421	177
5	98	52	100	98	108	166	242	171	302	486	435	254
6	99	52	100	98	97	177	242	200	354	464	444	292
7	136	67	100	110	89	185	242	200	359	435	447	292
8 9	203	90	99 100	124 124	89	185	242	200	248 205	427 426	443	293
10	203 203	101 101	101	124	89 89	184 184	242 242	232 251	205	423	438 436	320 341
11 12	148 133	101 101	101 101	124 124	89 90	184 184	242 242	249 249	208 209	400 388	445 454	340 340
13	152	101	101	124	90	173	242	249	209	388 378	434	340
14	178	91	101	124	91	165	243	249	212	368	400	340
15	141	79	101	124	91	165	244	249	212	356	374	312
16	103	79	101	126	91	165	243	311	316	344	410	276
17	93	79 79	101	126	91	166	243	364	405	335	410	277
18	76	79	101	126	104	166	267	361	405	321	329	279
19	76	75	113	126	126	147	300	360	405	328	292	220
20	76	66	124	126	150	119	300	335	376	345	292	182
21	112	67	124	115	166	129	300	318	357	366	292	151
22	152	67	124	106	166	161	276	250	381	383	292	130
23	122	67	124	106	166	170	219	192	455	406	325	129
24	101	67	124	106	166	168	195	193	549	412	346	161
25	101	60	124	106	166	168	165	194	603	405	412	193
26	101	51	124	107	166	168	129	194	603	401	401	236
27	90	51	124	108	166	168	128	196	604	390	305	277
28	75	51	124	108	166	168	130	218	620	394	254	328
29 30	76 76	51 51	124 124	108 108		168 168	130 130	277 302	632 612	411 450	254 254	327 327
31	76		109	108		168	130	302		448	253	327
	3732	2186	3302	3503	2224		6540		11256	12792	11552	7709
TOTAL MEAN	120	72.9	107	113	3334 119	5183 167	218	7388 238	375	413	373	257
MAX	203	101	124	126	166	185	300	364	632	589	454	341
MIN	75	51	51	96	89	119	128	130	205	321	253	124
AC-FT	7400	4340	6550	6950	6610	10280	12970	14650	22330	25370	22910	15290
STATIST	TCS OF MC	NTHLY MEA	N DATA FO	R WATER	YEARS 1925	- 1997.	BY WATER Y	/EAR (WY)				
MEAN	128	66.5	50.0	55.0	53.2	54.9	147	283	335	361	343	200
MAX	380	266	184	148	143	208	932	1716	1088	1451	984	431
(WY)	1985	1985	1996	1996	1990	1986	1942	1970	1995	1995	1984	1990
MIN	12.9	6.33	5.26	5.26	2.76	3.11	2.00	11.0	38.5	53.5	66.7	33.5
(WY)	1965	1960	1926	1926	1957	1957	1957	1938	1989	1967	1978	1978
SUMMARY	STATISTI	.cs	FOR 1	.996 CALEI	NDAR YEAR	F	OR 1997 WAS	TER YEAR		WATER YE	ARS 1925	- 1997
ANNUAL	TOTAL			83465			78477					
ANNUAL				228			215			174		
	ANNUAL M									450		1970
LOWEST	ANNUAL ME	AN								60.1		1978
HIGHEST	DAILY ME	AN		713	Jul 18		632	Jun 29		4580	Apr	29 1970
LOWEST	DAILY MEA	M		a ₅₁	Nov 26		^a 51	Nov 26		^b 1.6	Apr	8 1957
	SEVEN-DAY			52	Nov 25		52	Nov 25		1.6	Apr	8 1957
	ANEOUS PE						642	Jun 29		4640		29 1970
	ANEOUS PE						3.05	Jun 29		13.40	Apr	29 1970
	RUNOFF (A			165600			155700			125900		
	ENT EXCEE			467			410			430		
	ENT EXCEE			150 86			168 89			96 18		
JU PERC	TINI TVCEF	טעו		00			07			Τ0		

a-Also occurred Nov 27 to Dec 1. b-Also occurred Apr 9-14, 1957.

TOTAL

392144105132401 SPRING CREEK AT LONG SCRAGGY RANCH RAIN GAGE, CO PRECIPITATION RECORDS

LOCATION.--Lat 39°21'44", long 105°13'24", in SW¹/4SE¹/4 sec.9, T.8 S., R.70 W., Jefferson County, Hydrologic Unit 10190002, on left bank of Spring Creek along road to Long Scraggy Ranch, 0.2 mi from Spring Creek Road, and 3.0 mi southeast of the community of Buffalo Creek.

PERIOD OF RECORD.--April to September 1997 (seasonal records only).

GAGE.--Tipping-bucket rain gage, with wind shields, with satellite telemetry. Elevation of gage is 7,280 ft above sea level, from topographic map.

REMARKS .-- Records good.

EXTREMES FOR CURRENT YEAR .-- Maximum daily rainfall during period of seasonal operation, 1.60 inches, June 6.

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY SUM VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP .01 .00 .00 .02 .02 .00 .12 2 ___ .00 .08 ------___ ___ ---___ ---.00 .00 .00 .00 .00 .27 .22 5 ___ ___ ___ ___ ___ ___ ___ .00 .02 .00 .62 .00 6 .00 1.60 .00 .32 .01 ___ ___ ___ ___ ___ ___ ___ .00 .26 .00 .10 .00 8 ---------.00 .00 .00 .00 .00 .00 ___ 10 ___ ___ ___ ___ ___ ___ .00 .01 .00 .05 .00 ---.04 .00 .00 .00 .22 12 ___ ___ ___ ___ ___ ___ ___ .10 .06 .00 13 .05 .00 .00 ---------------___ ___ 15 ___ ___ ___ ___ ___ .02 .05 .00 .00 .00 16 ------------------.01 .00 .00 .01 .00 ---___ 17 ___ ___ ___ ___ ___ .00 .00 .00 .22 .00 .00 18 ------------19 ---------.01 .00 .03 .02 .09 ___ ___ ___ 20 .00 .00 .00 .00 .10 21 ------------------.09 .32 .00 .02 .02 ___ ___ ___ ___ ---___ 22 ---.43 .05 .00 .03 .25 23 .01 .05 .00 .05 .00 24 25 ------------------.01 .06 .01 .25 .00 ------------___ ---.57 .00 .00 .00 .16 .00 .00 26 27 .00 ---___ ------------.10 .02 .00 . 55 ------___ ___ ___ ____ .03 .00 .00 .00 .31 .00 28 .04 .00 .02 .40 .10 .00 29 ------------------.00 .00 .00 .58 .03 .00 ---30 .00 .01 .00 .00 .16 .00 31 .00 1.27 .41

0.75

3.22

3.03

4.04

1.06

4.18

0.77

1.90

PLATTE RIVER BASIN

06701970 SPRING CREEK ABOVE MOUTH NEAR SOUTH PLATTE, CO PRECIPITATION RECORDS

LOCATION.--Lat 39°23'37", long 105°11'01", in SE¹/4SE¹/4 sec.35, T.7 S., R.70 W., Jefferson County, Hydrologic Unit 10190002, on right bank 0.9 mi upstream from mouth, and 1.3 mi southwest of the community of South Platte.

PERIOD OF RECORD.--April to September 1997 (seasonal records only).

GAGE.--Tipping-bucket rain gage (no wind shields used) with satellite telemetry. Elevation of gage is 6,320 ft above sea level, from topographic map.

REMARKS.--Records good.

TOTAL

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall during period of seasonal operation, 1.89 inches, Aug. 31.

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY SUM VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP .02 .01 .07 ---.00 .00 1 ---------------.00 .32 .00 .01 .06 .00 .00 .00 .00 .00 ---___ ---------------.00 .01 4 .00 .16 5 .00 .00 .00 .41 .00 .00 1.31 .00 .09 .28 6 ___ ------------___ .00 .00 .00 .24 .03 8 ___ ___ ___ ___ ___ ___ ___ .00 .11 .00 .00 .00 .08 .00 .30 .00 .00 10 .00 .23 .00 .07 11 .00 .01 .15 .00 ------------------.00 . 29 12 .03 .04 ___ .19 13 ___ ___ ___ ___ ___ ___ .00 .00 .00 .00 .00 .00 14 .00 .00 15 ---------------------.00 .02 .00 .00 .00 16 .00 .01 .00 .01 .00 17 ---------------------.00 .00 .00 .18 .00 ___ 18 ___ ___ .00 .03 .00 .01 .00 .00 .05 .10 20 ---------------------.00 .00 .01 .00 .04 21 .09 .28 .00 .00 .00 ---------------22 ------.17 .00 .00 .11 .17 ___ ___ 23 .00 .04 .18 .00 .01 24 .06 .00 .03 .06 .03 .04 25 ---___ ------------.32 .00 .00 .00 .09 .00 26 .04 .02 .00 .00 .26 .00 27 28 .19 .00 ---___ ------------.00 .00 .00 .00 ------------------.05 .00 .04 .00 29 .00 .03 .00 .28 .01 .00 30 31 ---___ ___ ---------.00 .00 .00 .06 nη .00 ---------.00 .85 1.89 ---------

0.43

2.98

06704500 DUCK CREEK NEAR GRANT, CO

 $LOCATION. --Lat\ 39^{o}31'46'', long\ 105^{o}43'50'', in\ NE^{1}/4NW^{1}/4\ sec. 13, T.6\ S., R.75\ W., Park\ County,\ Hydrologic\ Unit\ 10190002,\ on\ NE^{1}/4NW^{1}/4\ sec. 13, T.6\ S.,\ R.75\ W.,\ Park\ County,\ Hydrologic\ Unit\ 10190002,\ on\ NE^{1}/4NW^{1}/4\ sec. 13,\ T.6\ S.,\ R.75\ W.,\ Park\ County,\ Hydrologic\ Unit\ 10190002,\ on\ NE^{1}/4NW^{1}/4\ sec. 13,\ T.6\ S.,\ R.75\ W.,\ Park\ County,\ Hydrologic\ Unit\ 10190002,\ on\ NE^{1}/4NW^{1}/4\ sec. 13,\ T.6\ S.,\ R.75\ W.,\ Park\ County,\ Hydrologic\ Unit\ 10190002,\ on\ NE^{1}/4NW^{1}/4\ sec. 13,\ T.6\ S.,\ R.75\ W.,\ Park\ County,\ Hydrologic\ Unit\ 10190002,\ on\ NE^{1}/4NW^{1}/4\ sec. 13,\ T.6\ S.,\ R.75\ W.,\ Park\ County,\ Hydrologic\ Unit\ 10190002,\ on\ NE^{1}/4NW^{1}/4\ sec.\ NE^{1}/4NW^{1}/$ left bank 570 ft upstream from Geneva Creek Road, 650 ft upstream from the confluence with Geneva Creek, and 7.0 mi north

DRAINAGE AREA.--7.78 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1994 to September 1997 (discontinued).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,750 ft (revised) above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow partially regulated by Duck Lake.

			DISCHAF	RGE, CUBIC F			TER YEAR O	OCTOBER 199 S	6 TO SEPT	EMBER 1997	7	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.5 1.4 1.4 1.4	e1.1 e1.1 e1.1 e1.1	e1.0 e1.0 e1.0 e1.0	e1.1 e1.1 e1.3 e1.3	e1.1 e1.0 e.90 e.90 e.90	e.70 e.80 e.80 e.80 e.80	.95 e1.0 e1.0 1.0 e1.0	2.0 1.8 2.1 2.9 3.6	23 25 26 27 29	23 23 22 21 21	4.8 4.5 4.0 4.1 4.2	4.1 4.0 4.6 4.8 4.2
6 7 8 9 10	1.4 1.4 1.3 1.3	e1.2	e1.0 e1.1 e1.2 e1.2 e1.2	e1.1 e1.0 e.90 e.80 e.70	e.90 e.80 e.70 e.70 e.80	e.80	e1.0 e1.0 e1.0 e1.0	3.9 4.3 4.6 5.1 5.6	31 33 34 36 36	20 19 19 18 18	4.1 4.9 4.0 4.9 6.7	4.1 4.0 3.8 3.8 3.9
11 12 13 14 15	1.4 1.3 1.3 1.3	e1.4 e1.4 e1.3 e1.3 e1.2	e1.1 e1.0 e1.0 e1.0 e.90	e.70 e.70 e.80 e.80 e.90	e.80 e.80 e.80 e.90	e.80	e1.0 e1.0 e1.0 e1.1 e1.2	5.8 5.9 6.4 7.1 7.9	36 35 36 36 34	30 30 29 27 26	5.0 4.7 4.5 4.5 4.4	3.7 3.6 3.4 3.4 3.3
16 17 18 19 20	1.5 1.6 e1.6 e1.6 e1.4	e1.1 e1.1 e1.3 e1.4	e.80 e.80 e.90	e1.0 e1.0	e.90 e1.0	e.90 e.90 e.90 e.90	e1.5 e2.0 2.3 2.9 3.2		34 33 32 32 32	24 26 28 26 24	4.4 4.6 4.8 4.5 4.2	3.4 3.2 3.1 3.0 3.7
21 22 23 24 25	e1.2 e1.3 e1.3 e1.3	e1.3 e1.3 e1.3 e1.2 e1.1	e.90 e.90 e1.0	e1.0 e1.0 e1.0 e1.0 e1.0	e.90 e.80 e.70 e.70 e.60	.96 1.0 1.2 .97 .81	2.8 2.1 2.0 1.9	15 17 18 19	32 32 32 31 30	23 23 22 20 20	4.3 4.2 4.2 4.2 4.3	3.4 3.5 3.3 3.2 3.1
26 27 28 29 30 31	eı.z	e1.1 e1.0 e1.0 e1.0 e1.0	e1.0 e1.1 e1.1 e1.1 e1.1	e1.0 e1.0 e1.0 e1.0 e1.1 e1.2	e.70 e.70 e.70 	1.0 1.2 1.3 .99 1.1 1.1	1.5 2.0 2.2 2.4 2.2	20 20 20 22 22 22	29 27 26 25 24	20 19 19 6.9 7.0 5.2	4.4 4.5 4.5 4.2 4.2	3.0 2.9 2.9 2.8 2.7
TOTAL MEAN MAX MIN AC-FT	41.9 1.35 1.6 1.1	35.4	31.40 1.01 1.2 .80 62	30.70	23.30 .83 1.1 .60 46	28.23 .91 1.3 .70 56	47.95 1.60 3.2 .95 95	339.8 11.0 22 1.8 674	928 30.9 36 23 1840	659.1 21.3 30 5.2 1310	138.9 4.48 6.7 4.0 276	105.9 3.53 4.8 2.7 210
STATIST	ICS OF MC	ONTHLY MEA	N DATA F	OR WATER Y			BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	1.85 3.05 1996 1.15 1995	1.50 2.23 1996 1.09 1995	1.07 1.55 1996 .65 1995	.91 1.18 1996 .57 1995	.81 1.04 1996 .55 1995	.87 .91 1996 .78 1995	1.41 1.60 1997 1.07 1995	8.41 11.0 1997 3.41 1995	29.8 34.4 1995 24.1 1996	22.8 27.7 1995 19.5 1996	6.37 11.1 1995 3.55 1996	3.35 5.18 1995 1.35 1996
SUMMARY	STATISTI	ICS	FOR	1996 CALEN	DAR YEAR	F	OR 1997 W	ATER YEAR		WATER Y	EARS 1995	- 1997
LOWEST A	MEAN ANNUAL M ANNUAL ME	EAN		2065.54 5.64 29			2410.56 6.60	0		6.63 7.33 5.93	3 2	1995 1996
LOWEST I	DAILY ME DAILY MEA SEVEN-DAY			e,b.80	Jun 15 Dec 17 Mar 13		e.6	Jun 9 0 Feb 25 9 Feb 23		78 C.4 .4:	6 Fob	20 1995 12 1995 11 1995
	ANEOUS PE			.01	1101 13		d ₃₉	Jun 7		97	Jun	19 1995
ANNUAL I 10 PERCI 50 PERCI	ANEOUS PE RUNOFF (<i>E</i> ENT EXCEE ENT EXCEE ENT EXCEE	DS DS		4100 21 1.3 .97			d1.40 4780 24 1.4			1.9° 4790 23 1.4		19 1995

e-Estimated. a-Also occurred Jun 10-11, and 13-14. b-Also occurred Dec 18. c-Also occurred Feb 13, 1995. d-Also occurred Jun 8, and 13-14.

06704500 DUCK CREEK NEAR GRANT, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1995 to September 1997 (discontinued).

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: May 1995 to September 1997 (discontinued). WATER TEMPERATURE: May 1995 to September 1997 (discontinued).

INSTRUMENTATION.--Water-quality monitor since with satellite telemetry May 1995.

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

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum 63 microsiemens, June 4, 1995; minimum 33 microsiemens, July 18, 21-23, 1996. WATER TEMPERATURE: Maximum 15.4°C, July 24, 1997; minimum 0.0°C, many days during winter months.

EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 58 microsiemens, Oct. 12; minimum, 34 microsiemens July 11-12, 16-20, and 22. WATER TEMPERATURE: Maximum, 15.4°C, July 24; minimum, 0.0°C, on many days during winter months.

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

DAY	MAX	MIN	MEAN									
		OCTOBER			NOVEMBE	IR.		DECEMBE	R		JANUARY	
1	57	56	57	53	52	53	51	50	51	50	49	50
2	57	56	57	54	53	53	51	50	51	50	49	50
3	57	57	57				51	50	51	50	49	50
4	57	57	57				51	50	51	50	49	49
5	57	57	57	53	52	53	51	50	51	50		
6	57	57	57	53	52	52	50	49	50	50	49	50
7	57	57	57	54	53	53	50	49	50	50		
8	57	57	57	54	53	53	50	50	50			
9	57	56	57	53	52	53	51	50	50			
10	57	56	57	53	52	53	50	49	50			
11	57	56	57	53	52	53	50	49	50			
12	58	56	57	53	52	53	50	49	50			
13	57	56	57	53	52	52	50	50	50	50	49	
14	57	56	57	53	52	52	50	49	50	50	49	49
15	57	56	56	52	51	52	50	50	50	49	48	49
16	56	55	56	52	50	51	50	49	50	49	49	49
17	55	54	55	52	51	52	50	49	49	50	49	49
18	56	54	55	52	51	51	50	49	49	50	49	49
19	56	55	55	51	51	51	50	49	50	50	49	49
20	55	54	55	52	51	51	50	49	50			
21	55	54	55	52	51	52	50	49	50			
22	55	54	55	52	51	52	50	49	50			
23	54	54	54	52	51	52	50	49	49			
24	54	53	54	52	52	52	50	49	50			
25	54	53	54	53	51	52	50	49	50			
26	53	52	53	53	50	52	50	49	50			
27	54	53	53	51	50	51	50	49	50			
28	54	53	53	52	51	51	50	49	49			
29	53	52	53	51	50	51	50	49	50			
30	53	53	53	51	50	51	50	49	50			
31	54	52	53				50	49	50	50	49	50
MONTH	58	52	55				51	49	50			

06704500 DUCK CREEK NEAR GRANT, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1				49	49	49	53	51	52	55	53	54
2				50	49	49	53	51	52	55	53	54
3 4				50 49	48 48	49 49	54 53	51 50	52 52	55 55	53 52	54 53
5				50			55	52	53	54	52	53
6 7				50 50	49 49	50 50	54 53	 50	 52	54 54	52 53	53 53
8				50	49	50	53	51	52	56	53	54
9 10				50 51	49 49	50 50	53 52	52 51	52 52	57 57	54 55	55 56
11				50	49	50	53			56	54	56
12				50	49	50	53	49	52	57	55	56
13 14				50 50	49 49	50 50	53 53	51 52	53 52	57 56	56 55	56 56
15				51	50	50	53	52	52	57	55	56
16				51	50	50	53	51	52	55	53	54
17 18				51 51	50 50	50 50	53 54	50 50	52 52	54 52	52 51	53 51
19 20				51 52	50 50	50 51	53 53	49 49	51 51	52 50	50 49	51 50
21				52	51	51	53	49	51	49	48	49
22				52	51	52	55	52	53	48	47	48
23 24				52 52	51 51	52 52	54 54	53 52	54 53	49 47	46 46	47 46
25				53			54	53	54	47	46	46
26				53	51	52	54	53	53	46	45	46
27 28	49	46	49	53 53	52 52	52 52	55 54	53 53	53 53	46 46	45 45	46 46
29 30				53 54	52 51	52 52	55 55	52 53	54 54	46 46	44 45	45 46
31				54	52	52				47	45	46
MONTH				54			55			57	44	51
		JUNE			JULY			AUGUST			SEPTEMB	ER
1	46		45	38		38	48		48	48		
1 2 2	46 44	44 43	45 44	38 38	37 37	38 38	48 49	47 48	48 48	48 49	46 47	47 48
2 3 4	44 44 43	44 43 42 39	44 43 41	38 38 39	37 37 35 38	38 38 38	49 49 49	47 48 48 47			46	47 48 47 48
2 3	44 44	44 43 42	44 43	38 38	37 37 35	38 38	49 49	47 48 48	48 48	49 49	46 47 44	47 48 47
2 3 4 5	44 44 43 39	44 43 42 39 38	44 43 41 39	38 38 39 38	37 37 35 38 38 38	38 38 38 38	49 49 49 49	47 48 48 47 47	48 48 48 48	49 49 48 48	46 47 44 45 46	47 48 47 48 47
2 3 4 5 6 7 8	44 44 43 39 38 39 38	44 43 42 39 38 37 37 37	44 43 41 39 38 38 38	38 38 39 38 38 39	37 37 35 38 38 38 38	38 38 38 38 38 38 38	49 49 49 49 49 49	47 48 48 47 47 47	48 48 48 48 48 48	49 49 48 48 48 47	46 47 44 45 46 46 46	47 48 47 48 47 47 47
2 3 4 5 6 7 8 9	44 44 43 39 38 39 38 39	44 43 42 39 38 37 37 37 38	44 43 41 39 38 38 38 38	38 38 39 38 38 39 39	37 37 35 38 38 38 38 38	38 38 38 38 38 38 38 38	49 49 49 49 49 49 49	47 48 48 47 47 47 48 44	48 48 48 48 48 48 49 48	49 49 48 48 48 47 47	46 47 44 45 46 46 46 46	47 48 47 48 47 47 47 47 47
2 3 4 5 6 7 8 9	44 44 43 39 38 39 38 39 38 38	44 43 42 39 38 37 37 37 38 38	44 43 41 39 38 38 38 38 38	38 38 39 38 38 39 39 39	37 37 35 38 38 38 38 38 38 38 37	38 38 38 38 38 38 38 38 38	49 49 49 49 49 49 49 49 51	47 48 48 47 47 47 48 44 48	48 48 48 48 48 49 48 49	49 49 48 48 47 47 47 47	46 47 44 45 46 46 46 46 46	47 48 47 48 47 47 47 47 47
2 3 4 5 6 7 8 9 10	44 44 43 39 38 39 38 38 38 38	44 43 42 39 38 37 37 37 38 38 38	44 43 41 39 38 38 38 38 38 38	38 38 39 38 38 39 39 39 39 37	37 37 35 38 38 38 38 38 37 34	38 38 38 38 38 38 38 38 38 38 38	49 49 49 49 49 49 49 51 51	47 48 48 47 47 47 48 44 48 49 48	48 48 48 48 48 49 49 50	49 49 48 48 47 47 47 48 48	46 47 44 45 46 46 46 46 46 46	47 48 47 48 47 47 47 47 47 47 47
2 3 4 5 6 7 8 9 10	44 44 43 39 38 39 38 38 38 38	44 43 42 39 38 37 37 37 38 38 38	44 43 41 39 38 38 38 38 38 38	38 38 39 38 38 39 39 39 39	37 37 35 38 38 38 38 38 37	38 38 38 38 38 38 38 38 38 38	49 49 49 49 49 49 49 51	47 48 48 47 47 47 48 44 48	48 48 48 48 48 49 48 49	49 48 48 48 47 47 47 48	46 47 44 45 46 46 46 46 46	47 48 47 48 47 47 47 47 47 47
2 3 4 5 6 7 8 9 10	44 44 43 39 38 39 38 38 38 38 38	44 43 42 39 38 37 37 37 38 38 37 37 37	44 43 41 39 38 38 38 38 38 38 38	38 38 39 38 39 39 39 39 39 37 35	37 37 35 38 38 38 38 38 37 34 34 35	38 38 38 38 38 38 38 38 38 35 35	49 49 49 49 49 49 49 51 51 50 50	47 48 48 47 47 47 48 44 48 49 48	48 48 48 48 48 49 48 49 50 49	49 49 48 48 47 47 47 47 48 48 48	46 47 44 45 46 46 46 46 46 47	47 48 47 48 47 47 47 47 47 47 47 47
2 3 4 5 6 7 8 9 10 11 12 13 14 15	44 44 43 39 38 38 38 38 38 38 38 38 38	44 43 42 39 38 37 37 37 38 38 37 37 37 37 37 37	44 43 41 39 38 38 38 38 38 38 38 38 38 37	38 38 39 38 39 39 39 39 37 35 35 36 36	37 37 35 38 38 38 38 38 37 34 34 35 35 35 35	38 38 38 38 38 38 38 38 35 35 35 35 35	49 49 49 49 49 49 51 51 50 50 49 49	47 48 47 47 47 47 48 44 48 49 48 48 48	48 48 48 48 49 48 49 48 49 48 49	49 49 48 48 47 47 47 47 48 48 48 48 48	46 47 44 45 46 46 46 46 47 47 47 46	47 48 47 48 47 47 47 47 47 47 47 47 47 47 47
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	44 44 43 39 38 38 38 38 38 38 38 38 38 38	44 43 42 39 38 37 37 37 38 38 37 37 37 37 37 37 37	44 43 41 39 38 38 38 38 38 38 38 38 37 37 37	38 38 39 38 39 39 39 39 37 35 36 36 36	37 37 35 38 38 38 38 38 38 37 34 35 35 35 35 34 34	38 38 38 38 38 38 38 38 35 35 35 35 35 35 35	49 49 49 49 49 49 49 51 51 50 50 49 49 49	47 48 48 47 47 47 48 44 48 49 48 47 48 48 47 48 47	48 48 48 48 49 49 49 49 48 49 48 48 48	49 49 48 48 47 47 47 47 48 48 48 48 48 48 48 48	46 47 44 45 46 46 46 46 47 47 47 47 46 46 46 46 46 46 47 47 47 47 47 47 47 47 47 47 47 47 47	47 48 47 48 47 47 47 47 47 47 47 47 47 47 47 47
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	44 44 43 39 38 38 38 38 38 38 38 38 38 38 38	44 43 42 39 38 37 37 37 38 38 37 37 37 37 37 37 37 37	44 43 41 39 38 38 38 38 38 38 38 38 37 37 37	38 38 39 38 39 39 39 39 37 35 36 36 36 35 35	37 37 35 38 38 38 38 38 38 37 34 34 35 35 35 35 34 34 34 34	38 38 38 38 38 38 38 38 35 35 35 35 35 35 35 35	49 49 49 49 49 49 49 51 51 50 50 49 49 49	47 48 47 47 47 48 44 48 49 48 48 47 47	48 48 48 48 49 48 49 48 49 48 49 48 49 48 47	49 49 48 48 47 47 47 47 48 48 48 48 48 47 47	46 47 44 45 46 46 46 46 47 47 46 46 46 46 46 46 46 46 46 46 47 47 46	47 48 47 48 47 47 47 47 47 47 47 47 47 47 47
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	44 44 43 39 38 38 38 38 38 38 38 38 38 38 38 38 38	44 43 42 39 38 37 37 37 38 38 37 37 37 37 37 37 37 37	44 43 41 39 38 38 38 38 38 38 38 37 37 37 37	38 38 39 38 39 39 39 39 37 35 36 36 36 36 35 35	37 37 35 38 38 38 38 38 38 37 34 35 35 35 35 34 34 34 34 34	38 38 38 38 38 38 38 38 35 35 35 35 35 35 35 35 35 35	49 49 49 49 49 49 49 51 51 50 50 49 49 49 48 48 48	47 48 48 47 47 47 48 44 48 44 48 47 48 47 47 47	48 48 48 48 49 48 49 48 49 48 48 49 48 48 48 48 48 48 48 48 48 48 48 48 48	49 49 48 48 47 47 47 48 48 48 48 48 48 48 48 48 48	46 47 44 45 46 46 46 46 47 47 47 46 46 46 46 47	47 48 47 48 47 47 47 47 47 47 47 47 47 47 47 47
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	44 44 43 39 38 38 38 38 38 38 38 38 38 38 38 38 38	44 43 42 39 38 37 37 37 38 38 38 37 37 37 37 37 37 37 37 37 37 37	44 43 41 39 38 38 38 38 38 38 38 37 37 37 37 37	38 38 39 39 39 39 39 37 35 35 36 36 36 35 35 35	37 37 35 38 38 38 38 38 37 34 34 35 35 35 35 34 34 34 34 34 34 34	38 38 38 38 38 38 38 38 38 35 35 35 35 35 35 35 35 35 35 35 35 35	49 49 49 49 49 49 49 51 51 50 50 49 49 49 49 48 48 48	47 48 47 47 47 48 44 48 48 48 47 47 47 47 47 47 47 47 47 47 47 47 47	48 48 48 48 49 48 49 48 49 48 49 48 48 47 48 47 46	49 49 48 48 47 47 47 48 48 48 48 48 48 48 48 48 48 48 48 48	46 47 44 45 46 46 46 46 47 47 47 46 46 46 47 47 47 46 46 46 46 46 46 47 47 47 46 46 46 47 47 47 47 47 47 47 47 47 47 47 47 47	47 48 47 48 47 47 47 47 47 47 47 47 47 47 47 47 47
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	44 44 43 339 38 38 38 38 38 38 38 38 38 38 38 38 38	44 43 42 39 38 37 37 37 38 38 37 37 37 37 37 37 37 37 37 37 37 37 37	44 43 41 39 38 38 38 38 38 38 38 38 37 37 37 37 37	38 38 39 38 39 39 39 39 37 35 36 36 36 35 35 35 35 35	37 37 35 38 38 38 38 38 38 38 37 34 34 35 35 35 35 35 35 35 35 35 35 36 37 37 37 37 37 37 37 37 37 37 37 37 37	38 38 38 38 38 38 38 38 35 35 35 35 35 35 35 35 35 35 35 35	49 49 49 49 49 49 49 51 51 50 50 49 49 49 48 48	47 48 48 47 47 47 48 44 48 44 48 48 47 47 47 47 47 47 47 47 47 47 47 47 47	48 48 48 48 49 49 49 50 48 49 48 49 48 47 48 47 46	49 49 48 48 47 47 47 47 48 48 48 48 48 48 48 48 48 48 48	46 47 44 45 46 46 46 47 47 47 46 46 46 47 47 46 46 46 47 47 46 46 46 47 47 47 47 47 47 47 47 47 47 47 47 47	47 48 47 48 47 47 47 47 47 47 47 47 47 47 47 47 47
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	44 44 43 39 38 38 38 38 38 38 38 38 38 38 38 38 37 37	44 43 42 39 38 37 37 37 38 38 38 37 37 37 37 37 37 37 37 37 37 37	44 43 41 39 38 38 38 38 38 38 38 37 37 37 37 37 37	38 38 39 39 39 39 39 37 35 35 36 36 36 35 35 35	37 37 35 38 38 38 38 38 37 34 34 35 35 35 35 34 34 34 34 34 34 34	38 38 38 38 38 38 38 38 38 35 35 35 35 35 35 35 35 35 35 35 35 35	49 49 49 49 49 49 49 51 51 50 50 49 49 49 49 49 49 49 49 49 49 49 49 49	47 48 47 47 47 48 44 48 48 48 47 47 47 47 47 47 47 47 47 47 47 47 47	48 48 48 48 49 48 49 48 49 48 49 48 48 47 48 47 46	49 49 48 48 47 47 47 47 48 48 48 48 48 47 48 48 47 48 48 48 47 48 48 48 48 48 48 48 48 48 48 48 48 48	46 47 44 45 46 46 46 46 47 47 47 47 46 46 46 46 46 46 46 47 47 47 47 47 47 47 47 47 47 47 47 47	47 48 47 48 47 47 47 47 47 47 47 47 47 47 47 47 47
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	44 44 43 339 38 38 38 38 38 38 38 38 38 38 38 38 38	44 43 42 39 38 37 37 37 37 37 37 37 37 37 37 37 37 37	44 43 41 39 38 38 38 38 38 38 38 37 37 37 37 37 37 37 37 37	38 38 39 38 39 39 39 39 37 35 36 36 36 35 35 35 35 35 35 35 35 35 36 36 36 36 36 36 36 36 36 36 36 36 37 38 38 38 38 38 38 38 38 38 38 38 38 38	37 37 35 38 38 38 38 38 38 37 34 34 35 35 35 35 34 34 34 34 34 35 35 35 35 35 35 35 35 35 35 35 36 37 37 37 37 37 37 37 37 37 37 37 37 37	38 38 38 38 38 38 38 38 35 35 35 35 35 35 35 35 35 35 35 35 35	49 49 49 49 49 49 49 51 51 50 50 49 49 49 48 48 48 48 48	47 48 47 47 47 48 44 48 48 48 47 47 47 46 46 46 44 44 44	48 48 48 48 48 49 49 49 49 48 49 48 47 48 47 46 46 46 46 45	49 49 48 48 47 47 47 47 48 48 48 48 47 48 48 48 48 48 48 48 48 48 48 48 48 48	46 47 44 45 46 46 46 46 47 47 47 46 46 46 47 47 47 47 47 47	47 48 47 48 47 47 47 47 47 47 47 47 47 47 47 47 47
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	44 44 43 39 38 38 38 38 38 38 38 38 38 37 37 37 37 37 37	44 43 42 39 38 37 37 37 38 38 38 37 37 37 37 37 37 37 37 37 37 37 37 37	44 43 41 39 38 38 38 38 38 38 38 37 37 37 37 37 37 37 37 37 37 37	38 38 39 39 39 39 39 39 37 35 36 36 36 35 35 35 35 36 36 36 36 36 36 36 36 36 36 36 36 36	37 37 35 38 38 38 38 38 38 38 37 34 34 34 34 34 34 34 34 35 35 35 35 35 35 35 35 35 35 35 35 36 37 37 37 37 37 37 37 37 37 37 37 37 37	38 38 38 38 38 38 38 38 35 35 35 35 35 35 35 35 35 35 35 35 35	49 49 49 49 49 49 49 51 51 50 50 49 49 49 49 48 48 48 48 48	478448 477477488448 44774774666654 44544457	48 48 48 48 48 49 49 54 48 49 48 49 48 49 48 49 48 49 48 49 49 48 49 49 48 49 49 49 49 49 49 49 49 49 49 49 49 49	49 49 48 48 47 47 47 47 48 48 48 48 48 48 48 47 48 48 48 48 47 48 48 48 48 48 48 48 48 48 48 48 48 48	46 47 44 45 46 46 46 46 47 47 47 46 46 47 47 47 47 47	47 48 47 48 47 47 47 47 47 47 47 47 47 47 47 47 47
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	44 44 43 339 38 38 38 38 38 38 38 38 38 38 38 38 38	44 43 42 39 38 37 37 37 37 37 37 37 37 37 37 37 37 37	44 43 41 39 38 38 38 38 38 38 38 37 37 37 37 37 37 37 37 37 37 37	38 38 39 39 39 39 39 39 37 35 36 36 36 35 35 35 35 35 35 36 36 36 36 36 36 36 36 36 36 36 36 36	37 37 35 38 38 38 38 38 38 37 34 34 35 35 35 35 35 35 35 35 35 35 35 35 36 37	38 38 38 38 38 38 38 38 35 35 35 35 35 35 35 35 35 35 35 35 35	49 49 49 49 49 49 49 51 51 50 50 49 49 49 48 48 48 48 48	478448 447 447 44844 4457 446 4454 4457 446	48 48 48 48 48 49 49 49 49 48 49 48 49 48 49 48 49 48 49 49 49 49 49 49 49 49 49 49 49 49 49	49 49 48 48 47 47 47 47 48 48 48 48 47 48 48 48 48 48 48 48 48 48 48 48 48 48	46 47 44 45 46 46 46 46 47 47 47 46 46 46 47 47 47 47 47 47	47 48 47 48 47 47 47 47 47 47 47 47 47 47 47 47 47
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	44 44 43 39 38 38 38 38 38 38 38 38 38 37 37 37 37 37 37	44 43 42 39 38 37 37 37 38 38 38 37 37 37 37 37 37 37 37 37 37 37 37 37	44 43 41 39 38 38 38 38 38 38 38 37 37 37 37 37 37 37 37 37 37 37	38 38 39 39 39 39 39 39 37 35 36 36 36 35 35 35 35 36 36 36 36 36 36 36 36 36 36 36 36 36	37 37 35 38 38 38 38 38 38 38 37 34 34 34 34 34 34 34 34 35 35 35 35 35 35 35 35 35 35 35 35 36 37 37 37 37 37 37 37 37 37 37 37 37 37	38 38 38 38 38 38 38 38 35 35 35 35 35 35 35 35 35 35 35 35 35	49 49 49 49 49 49 49 51 51 50 50 49 49 49 49 48 48 48 48 48	478448 477477488448 44774774666654 44544457	48 48 48 48 48 49 49 54 48 49 48 49 48 49 48 49 48 49 48 49 49 48 49 49 48 49 49 49 49 49 49 49 49 49 49 49 49 49	49 49 48 48 47 47 47 47 48 48 48 48 48 48 48 47 48 48 48 48 47 48 48 48 48 48 48 48 48 48 48 48 48 48	46 47 44 45 46 46 46 46 47 47 47 46 46 47 47 47 47 47	47 48 47 48 47 47 47 47 47 47 47 47 47 47 47 47 47
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	44 44 43 39 38 38 38 38 38 38 38 38 38 38 37 37 37 37 37 37 37 37 37 37 37	44 43 42 39 38 37 37 37 37 37 37 37 37 37 37 37 37 37	44 43 41 39 38 38 38 38 38 38 38 37 37 37 37 37 37 37 37 37 37 37 37 37	38 38 39 39 39 39 39 39 37 35 36 36 36 35 35 35 36 36 36 36 36 36 36 36 36 36 36 36 36	37 37 35 38 38 38 38 38 38 37 34 34 35 35 35 35 34 34 34 35 35 35 35 35 35 36 37	38 38 38 38 38 38 38 38 38 35 35 35 35 35 35 35 35 35 35 35 35 35	49 49 49 49 49 49 49 49 51 51 50 50 49 49 49 48 48 48 48 48	47844 477 47844 48 48 48 48 47777 666654 44 445766	48 48 48 48 48 48 49 54 48 49 48 49 48 48 49 48 49 48 49 48 49 48 49 48 49 48 49 49 49 49 49 49 49 49 49 49 49 49 49	49 49 48 48 47 47 47 48 48 48 48 48 48 47 48 48 48 48 48 48 49 48 48 48 48 48 48 48 48 48 48 49 49 49 49 49 49 49 49 49 49 49 49 49	46 47 44 45 46 46 46 46 47 47 46 46 46 47 47 47 47 47 47 47	47 48 47 48 47 47 47 47 47 47 47 47 47 47 47 47 47

06704500 DUCK CREEK NEAR GRANT, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER			DECEMBE	R		JANUAR	Y
1 2 3 4 5	8.3 8.8 8.5 8.6 9.0	3.8 3.9 5.3 4.3 4.2	5.6 6.0 6.5 6.1 6.0	4.2 4.9 3.9	1.4 1.2 1.2	2.3 2.4 2.3	1.9 1.1 1.6 1.1	.2 .2 .2 .1	.9 .7 .6 .6	2.8 3.3 2.3 1.4 1.5	1.3 1.8 1.4 .1	1.8
6 7 8 9 10	8.7 8.7 8.8 8.8	4.0 4.2 4.2 4.0 3.7	5.9 5.9 5.8 5.7	3.0 2.9 2.8 3.1 3.5	1.0 .8 .6 1.3	1.8 1.4 1.6 2.0 2.2	1.6 1.9 2.6 2.6 2.3	.8 .7 1.1 1.0	1.2 1.1 1.6 1.6	1.2 1.3 	.0 .0 	.5 .6
11 12 13 14 15	8.5 8.4 8.3 7.1 7.2	3.9 3.8 3.7 4.0 3.0	5.7 5.7 5.5 5.2 4.7	3.8 4.2 4.0 3.6 2.5	1.0 1.6 1.4 1.4	2.0 2.5 2.3 2.3 1.5	2.5 2.3 2.4 1.5	1.4 1.1 .9 .4	1.7 1.6 1.5 .9	 1.7 1.8 1.4	.7 .3 .3	 1.1 .9
16 17 18 19 20	5.2 4.4 5.7 6.1 4.7	2.8 1.6 1.5 2.3 1.3	3.7 2.6 3.2 3.9	2.2 2.0 2.6 3.4 3.4	.0 .3 1.1 1.6	.9 1.1 1.8 2.1 2.0	1.4 .4 .8 1.4	. 2 . 0 . 0 . 3 . 3	.7 .1 .3 .7	1.6 1.8 2.4 2.8	.1 .5 .9 .8	.6 1.0 1.5 1.4
21 22 23 24 25	3.6 4.2 4.3 4.1 4.0	1.0 .5 1.9 1.7 2.2	1.8 1.9 3.0 2.8 2.8	2.9 3.5 2.7 2.7 2.7	.8 1.2 1.4 .8	1.6 2.0 1.9 1.3	1.9 1.8 1.4 1.7	1.2 1.2 .8 .5	1.5 1.4 1.1 .9 1.2	 	 	
26 27 28 29 30 31	4.0 4.6 5.1 3.6 3.9 4.3	1.3 1.7 1.8 1.1 1.3	2.4 2.9 3.1 2.2 2.3 2.4	2.1 2.0 2.3 2.1 1.6	.7 .2 .2 .2 .3	1.2 .8 .9 1.0 .7	2.1 2.2 2.0 2.4 2.5 2.5	.9 1.3 .9 1.1 1.1	1.5 1.6 1.4 1.5 1.7	 2.6 2.5	 1.5	 1.8
MONTH	9.0	.5	4.2				2.6	.0	1.1			
		FEBRUAR	Y		MARCH			APRIL			MAY	
1 2 3 4 5		FEBRUAR	Y 	2.1 2.8 1.6 2.0 1.9	MARCH .0 .1 .5 .0	.6 1.1 .9 .6 .4	1.5 2.0 4.1 2.4 2.0	APRIL .0 .0 .0 .0 .0 .0 .0 .0	.8 .7 1.2 .8 .6	2.8 4.4 5.6 6.5 7.0	MAY .5 .1 .3 .7 1.0	1.5 1.7 2.4 2.9 3.5
2 3 4		 	 	2.1 2.8 1.6 2.0	.0 .1 .5	1.1 .9 .6	2.0 4.1 2.4	.0.0.0	.7 1.2 .8	4.4 5.6 6.5	.5 .1 .3 .7	1.7 2.4 2.9
2 3 4 5 6 7 8 9			 	2.1 2.8 1.6 2.0 1.9 3.0 3.2 3.3	.0 .1 .5 .0 .0	1.1 .9 .6 .4 .9 1.0 1.1	2.0 4.1 2.4 2.0 3.0 3.5 2.9 3.9	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	.7 1.2 .8 .6 .5 .8 1.0 1.4 .3	4.4 5.6 6.5 7.0 5.7 7.4 7.6 9.2	.5 .1 .3 .7 1.0 1.2 1.6 1.3 2.0 1.5	1.7 2.4 2.9 3.5 3.4 4.3 4.4 5.6 5.5 4.2 4.7 5.4
2 3 4 5 6 7 8 9 10 11 12 13 14				2.1 2.8 1.6 2.0 1.9 3.0 3.2 3.3 3.4 3.9 4.3 2.1	.0 .1 .5 .0 .0 .0 .0 .1 .5 .2 .3	1.1 .9 .6 .4 .9 1.0 1.1 1.2 1.5 1.4 1.5 1.5	2.0 4.1 2.4 2.0 3.0 3.5 2.9 3.9 1.0 1.4 2.1 3.5	.0 .0 .0 .0 .0 .0 .0 .5 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.7 1.2 .8 .6 .5 .8 1.0 1.4 .3 .2 .4 .7	4.4 5.6 6.5 7.0 5.7 7.4 7.6 9.2 9.5 6.2 8.6 9.1 7.8	.5 .1 .3 .7 1.0 1.2 1.6 1.3 2.0 1.5	1.7 2.4 2.9 3.5 3.4 4.3 4.4 5.6 5.5 4.2 4.7 4.8
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18				2.1 2.8 1.6 2.0 1.9 3.0 3.2 3.3 3.4 3.9 4.3 2.1 4.2 4.6 4.2 4.6 4.9	.0 .1 .5 .0 .0 .0 .0 .1 .5 .3 .5 .3 .5	1.1 .9 .6 .4 .9 1.0 1.1 1.2 1.5 1.4 1.5 1.6 1.9	2.0 4.1 2.4 2.0 3.0 3.5 2.9 3.9 1.0 1.4 2.1 3.2 3.5 4.0 4.8 4.5 4.2	.0 .0 .0 .0 .0 .0 .0 .5 .0 .0 .0 .0 .0 .0 .0	.7 1.2 .8 .6 .5 .8 1.0 1.4 .3 .2 .4 .7 1.0 1.5	4.4 5.6 6.5 7.0 5.7 7.4 7.6 9.2 9.5 6.2 8.6 9.1 7.8 10.7 9.8	.5 .1 .3 .7 1.0 1.2 1.6 1.3 2.0 1.5 1.8 1.2 1.9 1.8 1.8 2.2 2.2 2.4 3.0	1.7 2.4 3.5 3.4 4.3 4.4 5.6 5.5 4.2 5.4 4.8 5.9 5.9 6.2 6.4
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24				2.1 2.8 1.6 2.0 1.9 3.0 3.2 3.3 3.4 3.9 4.3 2.1 4.2 4.6 4.9 4.8 3.7 3.8 4.2 2.6	.0 .1 .5 .0 .0 .0 .0 .1 .5 .2 .3 .5 .3 .5 .7 .7	1.1 .9 .6 .4 .9 1.0 1.1 1.2 1.5 1.5 1.5 1.6 1.9 1.8 1.5 1.9 1.7	2.0 4.1 2.4 2.0 3.5 2.9 3.9 1.0 1.4 2.1 3.2 3.5 4.0 4.8 4.5 4.2 4.8 4.1 3.8 4.4 3.8	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.7 1.2 .8 .6 .5 .8 1.0 1.4 .3 .2 .4 .7 1.0 1.5 1.4 1.2 1.2 1.4 1.6	4.4 5.6 6.5 7.0 5.7 7.4 7.6 9.2 9.5 6.2 8.6 9.1 7.8 10.7 9.8 11.1 8.0 11.2 7.5 7.8 5.9	.5 .1 .3 .7 1.0 1.2 1.6 1.3 2.0 1.5 1.8 1.9 1.8 1.8 2.2 2.4 3.0 2.1 2.6 3.7 2.3	1.7 2.49 3.5 3.4 4.3 4.4 5.65 5.5 4.27 4.8 5.9 6.22 6.4 4.8 5.6 6.2 6.4 4.8

06704500 DUCK CREEK NEAR GRANT, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMB	ER
1 2 3 4 5	11.9 11.0 11.7 12.1 9.7	3.9 3.7 3.7 4.9 4.3	7.1 6.7 7.0 7.7 6.5	11.7 11.8 12.0 12.4 10.3	4.3 3.5 4.0 5.1 4.5	7.1 6.9 7.3 8.1 6.9	12.6 12.5 13.0 11.4 10.6	7.2 7.6 6.5 7.4 8.2	9.9 10.1 9.7 9.5 9.2	11.6 14.3 13.4 12.0 12.6	6.9 7.9 7.0 6.9 6.0	9.3 10.7 10.2 9.5 9.1
6 7 8 9 10	7.1 8.3 6.1 7.8 8.5	4.5 3.9 4.0 3.3 4.3	5.6 5.7 5.1 5.1	11.3 12.9 10.2 10.2	4.6 4.4 5.2 4.7 5.0	7.2 7.9 7.2 7.2 7.6	9.0 11.4 13.2 9.2 11.1	6.8 4.9 5.3 6.4 7.3	7.8 8.0 9.1 8.0 8.7	10.4 11.9 11.8 10.3 10.8	6.1 4.6 4.7 5.5 4.9	8.2 8.2 8.0 8.0
11 12 13 14 15	9.4 8.7 8.8 9.4 9.7	3.6 3.4 3.2 4.3 3.3	5.6 5.5 5.8 6.2 5.9	9.8 11.0 13.2 13.8 14.1	6.8 6.2 6.6 6.4 6.8	8.1 8.3 9.1 9.5 9.9	9.3 10.5 10.8 11.1 13.3	5.1 4.2 4.7 5.5 5.7	7.4 7.4 7.6 8.1 9.3	11.0 11.9 11.5 11.1 10.2	6.4 6.3 4.6 5.3 5.2	8.7 8.7 8.0 8.2 7.6
16 17 18 19 20	8.4 9.4 10.4 11.3 11.9	3.4 3.9 3.8 4.7 4.1	5.4 6.3 6.5 7.3 7.1	12.0 11.0 10.9 11.5 12.1	7.2 7.2 7.6 7.8 8.0	9.5 9.3 9.1 9.5 10.0	11.7 11.6 13.1 11.4 11.6	5.4 5.8 6.5 5.4 5.3	8.6 8.6 9.2 8.4 8.4	9.9 10.2 9.5 9.3 7.6	5.9 4.1 5.7 5.4 5.8	7.4 6.9 7.3 7.3 6.8
21 22 23 24 25	9.5 10.8 8.6 8.5 10.1	4.1 4.5 4.4 4.1 4.4	6.7 7.1 6.2 6.0 6.6	12.2 11.7 11.7 15.4 13.4	7.6 7.9 8.2 8.4	9.9 9.8 10.0 11.3 10.7	9.6 11.2 11.5 10.8 10.3	5.9 5.7 5.5 5.7 6.2	7.7 8.4 8.6 8.5 8.4	8.7 9.5 8.8 10.1 9.9	6.0 5.5 4.3 3.3	7.0 6.9 6.0 6.5 6.6
26 27 28 29 30 31	11.3 9.3 8.7 10.2 12.3	4.4 4.3 4.3 4.1 4.0	7.2 6.7 6.4 6.6 7.3	12.7 11.5 10.9 12.3 13.3 11.7	8.4 9.6 9.1 8.2 7.9 8.0	10.5 10.4 9.6 10.0 10.5 10.0	10.7 11.3 11.8 13.0 10.4 12.4	6.7 6.2 6.6 6.3 5.8 5.9	8.8 9.0 9.4 9.4 8.3 8.9	8.8 10.8 9.3 9.3 9.8	5.3 5.5 3.5 2.8 3.3	7.2 7.7 6.3 5.8 6.3
MONTH	12.3	3.2	6.4	15.4	3.5	9.0	13.3	4.2	8.7	14.3	2.8	

06704500 DUCK CREEK NEAR GRANT, CO--Continued PRECIPITATION RECORDS

PERIOD OF RECORD.--July 1995 to September 1997 (discontinued), seasonal records only.

GAGE.--Tipping-bucket rain gage (no wind shields used) with satellite telemetry. Elevation of gage is 10,100 ft above sea level, from topographic map.

REMARKS .-- Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 0.78 inches, June 6, 1997.

EXTREMES FOR CURRENT YEAR .-- Maximum daily rainfall during period of seasonal operation, 0.78 inches, June 6.

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

						DAILY	SUM VALU	JES				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00						.00	.05	.00	.00	.35	.06
2	.00						.00	.02	.00	.00	.00	.00
3	.00						.25	.00	.00	.00	.12	.24
4	.00						.02	.00	.02	.00	.25	.01
5	.00						.00	.00	.01	.00	.25	.00
6	.00						.00	.00	.78	.00	.23	.02
7	.00						.00	.00	.17	.10	.21	.00
8	.00						.00	.00	.51	.09	.00	.00
9	.00						.04	.00	.08	.02	.38	.00
10	.00						.00	.00	.01	.00	.14	.01
11	.00						.00	.02	.18	.00	.02	.01
12	.00						.00	.12	.00	.00	.01	.00
13	.00						.00	.00	.50	.00	.01	.00
14	.00						.02	.02	.18	.00	.02	.00
15	.00						.08	.00	.00	.00	.05	.01
16	.00						.29	.00	.05	.00	.00	.00
17	.00						.09	.00	.00	.03	.09	.00
18	.12						.00	.00	.01	.22	.01	.00
19	.05						.00	.01	.00	.10	.00	.18
20	.00						.02	.03	.00	.00	.00	.18
21	.00						.18	.18	.02	.09	.01	.06
22	.01						.16	.21	.00	.01	.00	.06
23	.00						.08	.22	.16	.05	.00	.01
24	.00						.00	.17	.15	.00	.06	.00
25	.04						.05	.00	.00	.00	.12	.00
26	.00						.08	.05	.00	.00	.14	.02
27	.04						.33	.01	.00	.22	.08	.00
28	.09						.30	.02	.00	.37	.05	.00
29	.00						.00	.18	.00	.45	.05	.00
30	.01						.01	.00	.00	.07	.00	.00
31	.00							.00		.14	.00	
TOTAL	0.36						2.00	1.31	2.83	1.96	2.65	0.87

06705500 GENEVA CREEK AT GRANT, CO

 $LOCATION. --Lat\ 39^{o}28'20'', long\ 105^{o}40'54'', in\ NE^{1/4}NE^{1/4}\ sec. 5, T.7\ S., R.74\ W., Park\ County,\ Hydrologic\ Unit\ 10190002,\ on\ right$ bank 0.2 mi downstream from Geneva Creek Campground, and 1.5 mi upstream from Grant.

DRAINAGE AREA.--74.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1908 to March 1918, published in WSP 1310. Prior to 1911, published as "at Sullivan's Ranch, near Grant". October 1994 to September 1997 (discontinued).

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

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow may be affected at times by Duck Lake.

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	29 28 27 27 26	22 22 22 22 22 22	e19 e19 e19 e19 e18	e18 e18 e19 e18 e17	e12 e12 e12 e12 e12	e12 e13 e14 e13 e13	18 e16 e21 19 16	24 23 23 27 36	273 306 313 346 371	202 188 180 173 167	104 103 93 110 112	51 51 51 53 47
6 7 8 9 10	25 25 24 24 24	21 23 32 30 26	e18 e18 e18 e19 e20	e16 e16 e16 e16 e15	e12 e12 e12 e12 e12	e14 e15 e15 e15 e15	e19 e22 e16 e16 e14	42 51 57 65 79	340 438 430 389 347	155 150 156 146 140	112 126 109 110 162	45 44 41 40 40
11 12 13 14 15	24 24 24 24 23	25 23 20 20 20	e20 e20 e19 e18 e18	e14 e14 e14 e13 e13	e12 e12 e12 e12 e12	e16 e17 e16 e16 e16	e14 e14 e14 e14	93 88 93 106 122	340 323 353 354 332	148 140 132 127 124	132 119 110 102 92	40 39 37 36 36
16 17 18 19 20	24 22 25 27 26	e18 e18 e18 e18	e18 e17 e17 e17 e17	e13 e12 e12 e12 e13	e13 e13 e13 e12 e12	e18 e19 e18 e18 e18	e16 23 28 32 37	152 185 196 205 197	324 326 341 385 391	122 120 123 123 117	85 82 85 75 70	37 35 34 34 41
21 22 23 24 25	e20 29 27 23 23	17 18 20 19 e21	e16 e16 e16 e16 e16	e12 e12 e12 e12 e12	e11 e11 e11 e12 e12	e19 18 20 19 e17	42 31 29 26 25	185 209 195 210 194	349 334 326 305 270	111 108 103 103 100	68 65 60 60	39 40 37 35 33
26 27 28 29 30 31	22 23 23 22 23 22	e20 e20 e20 e20 e20	e16 e16 e17 e17 e17	e12 e12 e12 e12 e12 e13	e12 e13 e12 	e17 19 18 18 17 18	23 25 29 27 25	185 163 156 171 185 222	258 249 228 219 209	96 100 114 99 113 106	65 63 66 56 54 52	33 32 31 30 29
TOTAL MEAN MAX MIN AC-FT	759 24.5 29 20 1510	634 21.1 32 17 1260	548 17.7 20 16 1090	432 13.9 19 12 857	337 12.0 13 11 668	511 16.5 20 12 1010	665 22.2 42 14 1320	3939 127 222 23 7810	9769 326 438 209 19380	4086 132 202 96 8100	2769 89.3 162 52 5490	1171 39.0 53 29 2320
STATIST	ICS OF MO	NTHLY MEAI	N DATA FO	OR WATER Y	EARS 1995	- 1997,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	24.8 30.3 1996 19.6 1995	19.1 21.1 1997 15.5 1995	16.5 18.4 1996 13.3 1995	12.1 13.9 1997 9.65 1995	10.8 12.0 1997 8.53 1995	13.6 16.5 1997 11.3 1995	18.2 22.2 1997 12.5 1995	101 142 1996 35.1 1995	315 394 1995 226 1996	184 307 1995 112 1996	77.1 108 1995 33.9 1996	38.5 49.6 1995 26.9 1996
SUMMARY STATISTICS		FOR 1996 CALENDAR YEAR			FOR 1997 WATER YEAR				WATER YEARS 1995 - 1997			
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN			20217 55.2			25620 70.2			69.4 82.2 55.7		1995 1996	
HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			282 e10 11 40100 183 23 12	Jun 22 Feb 24 Feb 6		438 e,b ₁₁ 12 547 6.39 50820 196 24 12	Jun 7 Feb 21 Feb 19 Jun 8 Jun 8		a746 e,c7.4 7.7 1070 7.24 50250 202 22 12	Jan 3 Jan 2 Jun 1	7 1995 30 1995 7 1995 7 1995 7 1995	

e-Estimated.

a-Also occurred Jun 18, 1995. b-Also occurred Feb 22-23. c-Also occurred Feb 7, 12-13, 1995.

06705500 GENEVA CREEK AT GRANT, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1995 to September 1997 (seasonal record, discontinued).

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: May 1995 to September 1997 (discontinued). WATER TEMPERATURE: May 1995 to September 1997 (discontinued).

INSTRUMENTATION.--Water-quality monitor since with satellite telemetry May 1995.

REMARKS.--Water temperature records are fair. Specific conductance records are good.

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum 110 microsiemens, May 11, 1995; minimum, 32 microsiemens, June 19 and 22, 1997. WATER TEMPERATURE: Maximum 15.7°C, July 23, 1996; minimum 0.0°C, on many days during winter months.

EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 90 microsiemens, Mar. 27-28, and Apr. 28; minimum, 32 microsiemens June 19 and 22. WATER TEMPERATURE: Maximum, 15.5°C, July 24; minimum, 0.0°C, many days in Oct.-Nov., and Mar.-May.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NC	NOVEMBER			CEMBER		JANUARY		
1	83	81	82									
2	87	82	83									
3	85	83	84									
4	84	83	84									
5	85	83	84									
6	85	84	84									
7	86	84	85									
8	86	84	85									
9	86	84	85									
10												
11	87	86	86									
12	87	85	86									
13	87	85	86									
14	86	85	86									
15	87	83	85									
16	86	82	84									
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MONTH												

MONTH

PLATTE RIVER BASIN

06705500 GENEVA CREEK AT GRANT, CO--Continued

06705500 GENEVA CREEK AT GRANT, CO--Continued

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

				TEMPERATU	KE, WAIE	K (DEG. C)	WAIEKIE	AR OCTOR	DEK 1990 IC	SEPTEMBE	(1997	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		1	NOVEMBER			DECEMBE	R		JANUARY	
1	7.1	3.3	5.5	1.3	.0	. 3						
2	7.9 9.6	3.6 6.0	$6.1 \\ 7.4$.8 1.3	.0	. 2						
4	7.5	4.4	6.2	2.4	.0	.9						
5	8.0	3.9	6.1	1.1	.0	.3						
-												
6	7.6	3.6	5.8	.3	.0	. 0						
7	7.8	3.9	5.9									
8	7.9	3.7	5.9									
9	7.7	3.6	5.7									
10	7.6	3.4	5.6									
11	7.6	3.3	5.6									
12	7.4	3.3	5.6	1.1	. 0	.3						
13	7.1	3.3	5.3	1.3	. 0	. 4						
14	6.0	3.3	4.9	.9	.0	.3						
15	5.4	1.7	3.7	1.0	.0	. 2						
3.6	4 1	1 0	0.6									
16 17	$\frac{4.1}{1.5}$	1.3	2.6									
18	2.0	. 0	. 7									
19	4.1	. 2	2.1									
20	3.3	.0	1.4	1.2	.0	. 3						
21												
22				1.8	. 0	.5						
23	. 8	. 0	.1	1.2	. 0	. 4						
24 25	1.3 2.3	. 0	. 4 . 6									
23	2.5	. 0	. 0									
26	1.7	. 0	.3									
27	1.7	. 0	.6									
28	2.6	. 0	1.3									
29	1.8	. 0	.5									
30 31	. 6	. 0	.1									
31	. 6	. 0	. 4									
MONTH												
		FEBRUAR	v		MARCH			ADRTI.			мач	
		FEBRUAR	Y		MARCH			APRIL			MAY	
1		FEBRUAR	Y 		MARCH		1.7	APRIL	. 6	3.6	1.1	2.3
2								.0		5.1	1.1	2.1
2							2.5	. 0 . 0	1.1	5.1 7.1	1.1 .0 .2	2.1 3.5
2 3 4			 		 		2.5 2.3	.0 .0 .2	1.1 1.0	5.1 7.1 9.0	1.1 .0 .2 1.2	2.1 3.5 4.8
2							2.5	. 0 . 0	1.1	5.1 7.1	1.1 .0 .2	2.1 3.5
2 3 4 5			 		 		2.5 2.3	.0 .0 .2	1.1 1.0	5.1 7.1 9.0 9.3	1.1 .0 .2 1.2 2.0	2.1 3.5 4.8 5.6
2 3 4		 					2.5 2.3 .2	.0 .0 .2 .0	1.1 1.0 .0	5.1 7.1 9.0	1.1 .0 .2 1.2	2.1 3.5 4.8
2 3 4 5 6 7 8				 			2.5 2.3 .2 1.1 2.3	.0 .0 .2 .0	1.1 1.0 .0 .2 .7	5.1 7.1 9.0 9.3	1.1 .0 .2 1.2 2.0	2.1 3.5 4.8 5.6 5.1 5.6 5.0
2 3 4 5 6 7 8 9			==== ==== ==== ====	==== ==== ==== ====			2.5 2.3 .2 1.1 2.3 4.1	.0 .0 .2 .0	1.1 1.0 .0 .2 .7 1.3	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.6	1.1 .0 .2 1.2 2.0 2.2 2.5 1.6 2.6	2.1 3.5 4.8 5.6 5.1 5.6 5.0 6.0
2 3 4 5 6 7 8				===			2.5 2.3 .2 1.1 2.3	.0 .0 .2 .0	1.1 1.0 .0 .2 .7	5.1 7.1 9.0 9.3 7.3 8.2 8.6	1.1 .0 .2 1.2 2.0 2.2 2.5 1.6	2.1 3.5 4.8 5.6 5.1 5.6 5.0
2 3 4 5 6 7 8 9				==== ==== ==== ====		 	2.5 2.3 .2 1.1 2.3 4.1 .9	.0 .0 .2 .0 .0 .0	1.1 1.0 .0 .0 .2 .7 1.3	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.6 9.2	1.1 .0 .2 1.2 2.0 2.2 2.5 1.6 2.6 1.6	2.1 3.5 4.8 5.6 5.1 5.6 5.0 6.0 5.5
2 3 4 5 6 7 8 9			==== ==== ==== ====	==== ==== ==== ====			2.5 2.3 .2 1.1 2.3 4.1	.0 .0 .2 .0	1.1 1.0 .0 .2 .7 1.3	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.6	1.1 .0 .2 1.2 2.0 2.2 2.5 1.6 2.6	2.1 3.5 4.8 5.6 5.1 5.6 5.0 6.0
2 3 4 5 6 7 8 9 10							2.5 2.3 .2 1.1 2.3 4.1 .9	.0	1.1 1.0 .0 .0 .2 .7 1.3 .1	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.6 9.2	1.1 .0 .2 1.2 2.0 2.2 2.5 1.6 2.6 1.6	2.1 3.5 4.8 5.6 5.1 5.6 5.0 6.0 5.5 4.1 4.4
2 3 4 5 6 7 8 9 10						==== ==== ==== ==== ==== ====	2.5 2.3 .2 1.1 2.3 4.1 .9	.0	1.1 1.0 .0 .2 .7 1.3 .1	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.6 9.2	1.1 .0 .2 1.2 2.0 2.2 2.5 1.6 2.6 1.6	2.1 3.5 4.8 5.6 5.1 5.6 5.0 6.0 5.5 4.1 4.4
2 3 4 5 6 7 8 9 10				 		==== ==== ==== ==== ====	2.5 2.3 .2 1.1 2.3 4.1 .9	.0	1.1 1.0 .0 .0 .2 .7 1.3 .1	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.6 9.2 6.6 8.1 8.8	1.1 .0 .2 1.2 2.0 2.2 2.5 1.6 2.6 1.6	2.1 3.5 4.8 5.6 5.1 5.0 6.0 5.5 4.1 4.4 5.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15							2.5 2.3 .2 1.1 2.3 4.1 .9	.0	1.1 1.0 .0 .0 .2 .7 1.3 .1	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.6 9.2 6.6 8.1 8.8 7.2 9.7	1.1 .0 .2 1.2 2.0 2.2 2.5 1.6 2.6 1.6 1.6 1.7	2.1 3.5 4.8 5.6 5.1 5.6 5.0 6.0 5.5 4.1 4.4 5.2 4.4 5.4
2 3 4 5 6 7 8 9 10 11 12 13 14 15							2.5 2.3 .2 1.1 2.3 4.1 .9 3.8	.00 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1.1 1.0 .0 .0 .2 .7 1.3 .1	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.2 6.6 8.1 8.7.2 9.7	1.1 .0 .2 1.2 2.0 2.5 1.6 2.6 1.6 1.3 2.1 1.7	2.1 3.5 4.8 5.6 5.1 5.6 6.0 5.5 4.1 4.2 4.4 5.4
2 3 4 5 6 7 8 9 10 11 12 13 14 15						 	2.5 2.3 .2 1.1 2.3 4.1 .9 3.8	.0	1.1 1.0 .0 .0 .2 .7 1.3 .1	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.6 9.2 6.6 8.1 8.8 7.2 9.7	1.1 .0 .2 1.2 2.0 2.2 2.5 1.6 2.6 1.6 1.3 2.1 1.7 1.9	2.1 3.5 4.8 5.6 5.1 5.6 5.0 6.0 5.5 4.1 4.4 5.2 4.4 5.1 5.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18							2.5 2.3 .2 1.1 2.3 4.1 .9 3.8 5.5 5.9	.0	1.1 1.0 .0 .2 .7 1.3 .1 1.0	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.6 9.2 6.6 8.1 8.8 7.2 9.7	1.1 .0 .2 1.2 2.0 2.5 1.6 2.6 1.6 1.6 1.7 1.7 1.9 2.1	2.1 3.5 4.8 5.6 5.1 5.6 5.0 6.0 5.5 4.1 4.4 5.2 4.4 5.4 5.1 5.2 4.4 5.4
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19							2.5 2.3 .2 1.1 2.3 4.1 .9 3.8 5.5 5.9 5.4 5.2	.0	1.1 1.0 .0 .2 .7 1.3 .1 1.0 2.3 2.6 2.5 2.6	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.2 6.6 8.1 8.8 7.2 9.7 9.0 9.6 7.1	1.1 .0 .2 1.2 2.0 2.2 2.5 1.6 2.6 1.6 1.3 2.1 1.7 1.9 2.1 2.8	2.1 3.5 4.8 5.6 5.1 5.6 5.0 6.0 5.5 4.1 4.4 5.2 4.4 5.4 5.4 5.6
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20							2.5 2.3 .2 1.1 2.3 4.1 .9 3.8 5.5 5.9 5.4 5.2 5.7	.0 .0 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1.1 1.0 .0 .2 .7 1.3 .1 1.0 2.3 2.6 2.5 2.6 3.1	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.6 9.2 6.6 8.1 8.8 7.2 9.7 9.0 9.6 7.1 9.5 6.7	1.1 .0 .2 1.2 2.0 2.5 1.6 2.6 1.6 1.7 1.7 1.9 2.1 1.9 2.1 2.8	2.1 3.5 4.8 5.6 5.1 5.6 5.0 6.0 5.5 4.1 4.4 5.2 4.4 5.1 5.2 4.4 5.4
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21							2.5 2.3 .2 1.1 2.3 4.1 .9 3.8 5.5 5.9 5.4 5.2 5.7	.0 .0 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1.1 1.0 .0 .0 .2 .7 1.3 .1 1.0 2.3 2.6 2.5 2.6 3.1	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.2 6.6 8.1 8.8 7.2 9.7 9.6 7.1 9.5 6.7	1.1 .0 .2 1.2 2.0 2.2 2.5 1.6 2.6 1.6 1.3 2.1 1.7 1.9 2.1 2.8 1.8	2.1 3.5 4.8 5.6 5.1 5.6 5.0 6.0 5.5 4.1 4.4 5.2 4.4 5.4 5.1 5.6 4.4 4.5 4.4
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22							2.5 2.3 .2 1.1 2.3 4.1 .9 3.8 5.5 5.9 5.4 5.7 4.6 5.3	.0 .0 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1.1 1.0 .0 .2 .7 1.3 .1 1.0 2.3 2.6 2.5 2.6 3.1	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.6 9.2 6.6 8.1 8.8 7.2 9.7 9.0 9.5 6.7	1.1 .0 .2 1.2 2.0 2.2 2.5 1.6 2.6 1.6 1.3 2.1 1.7 1.9 2.1 1.9 2.1 2.8 1.8	2.1 3.5 4.8 5.6 5.1 5.6 5.0 6.0 5.5 4.1 4.4 5.4 5.4 5.2 4.5 5.4 4.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23							2.5 2.3 .2 1.1 2.3 4.1 .9 3.8 5.5 5.9 5.4 5.2 5.7	.0 .0 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1.1 1.0 .0 .2 .7 1.3 .1 1.0 2.3 2.6 2.5 2.6 3.1	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.6 9.2 6.6 8.1 8.8 7.2 9.7 9.6 7.1 9.5 6.7	1.1 .0 .2 1.2 2.0 2.5 1.6 2.6 1.6 1.7 1.7 1.9 2.1 1.7 2.1 2.8 1.8	2.1 3.5 4.8 5.6 5.0 6.0 6.5 4.1 4.2 4.4 5.2 4.4 5.1 5.2 4.5 5.6 4.1 5.2 4.4 5.6
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24							2.5 2.3 .2 1.1 2.3 4.1 .9 3.8 5.5 5.9 5.4 5.2 5.7 4.6 5.3 4.8 2.6	.0 .0 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1.1 1.0 .0 .0 .2 .7 1.3 .1 .1 1.0 2.3 2.6 2.5 2.6 3.1 2.7 2.5 2.8	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.6 9.2 6.6 8.1 8.8 7.2 9.7 9.6 7.1 9.5 6.7	1.1 .0 .2 1.2 2.0 2.2 2.5 1.6 2.6 1.6 1.3 2.1 1.7 1.9 2.1 2.1 2.8 1.8 1.8 2.4 3.5 2.4 3.0	2.1 3.5 4.8 5.6 5.1 5.6 5.0 6.0 5.5 4.1 4.4 5.2 4.4 5.4 5.1 5.6 4.4 4.5 4.5 4.5 4.8
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23							2.5 2.3 .2 1.1 2.3 4.1 .9 3.8 5.5 5.9 5.4 5.2 5.7	.0 .0 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1.1 1.0 .0 .2 .7 1.3 .1 1.0 2.3 2.6 2.5 2.6 3.1 2.7 2.5 2.8	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.6 9.2 6.6 8.1 8.8 7.2 9.7 9.6 7.1 9.5 6.7	1.1 .0 .2 1.2 2.0 2.5 1.6 2.6 1.6 1.7 1.7 1.9 2.1 1.7 2.1 2.8 1.8	2.1 3.5 4.8 5.6 5.0 6.0 6.5 4.1 4.4 5.2 4.4 5.1 5.2 4.5 5.6 4.4 4.8 5.6
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26							2.5 2.3 .2 1.1 2.3 4.1 .9 3.8 5.5 5.9 5.4 5.2 5.7 4.6 5.3 4.8 2.6 4.2	.0 .0 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1.1 1.0 .0 .0 .2 .7 1.3 .1 1.0 2.3 2.6 2.5 2.6 3.1 2.7 2.5 2.8 .5 1.2	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.6 9.2 6.6 8.1 8.8 7.2 9.7 9.6 7.1 9.5 6.7	1.1 .0 .2 1.2 2.0 2.2 2.5 1.6 2.6 1.6 1.3 2.1 1.7 1.9 2.1 2.1 2.8 1.8 1.8 2.4 3.5 2.4 3.0	2.1 3.5 4.8 5.6 5.1 5.6 5.0 6.0 5.5 4.1 4.4 5.2 4.4 5.4 5.1 5.6 4.4 4.8 4.5 5.6 4.8 5.0 6.0 4.1 4.5 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27							2.5 2.3 .2 1.1 2.3 4.1 .9 3.8 5.5 5.9 5.4 5.7 4.6 5.3 4.2 2.6 4.2	.0 .0 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1.1 1.0 .0 .0 .2 .7 1.3 .1 .1 1.0 2.3 2.6 2.5 2.6 3.1 2.7 2.5 2.8 3.1 2.7 2.5 2.8 1.2	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.6 9.2 6.6 8.1 8.8 7.2 9.7 9.0 9.5 6.7 7.6 5.7 10.7 6.6 8.8	1.1 .0 .2 1.2 2.0 2.2 2.5 1.6 2.6 1.6 1.7 1.9 2.1 1.9 2.1 2.8 1.8 2.4 3.5 2.4 3.5 2.4 3.0 1.9	2.1 3.5 4.8 5.6 5.1 5.6 5.0 6.0 5.5 4.1 4.4 5.4 5.4 5.2 4.5 5.4 4.5 5.8 4.8 5.8 4.5 5.8 4.5 5.8
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28						 	2.5 2.3 .2 1.1 2.3 4.1 .9 3.8 5.5 5.9 5.4 5.2 5.7 4.6 5.3 4.2 2.6 4.2	.0 .0 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1.1 1.0 .0 .2 .7 1.3 .1 1.0 2.3 2.6 2.5 2.6 3.1 2.7 2.5 2.8 5 1.2	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.6 9.2 6.6 8.1 8.8 7.2 9.7 9.6 7.1 9.5 6.7	1.1 .0 .2 1.2 2.0 2.5 1.6 2.6 1.6 1.7 1.7 1.9 2.1 2.1 2.8 1.8 2.4 3.0 1.9 2.1 2.5	2.1 3.5 4.8 5.6 5.0 6.0 6.5 4.1 4.4 5.2 4.4 5.1 5.2 4.5 5.6 4.5 5.6 4.5 5.0 5 5.0 4.5 5.0 4.5 5.0 4.5 5.0 4.5 5.0 4.5 5.0 4.5 5.0 4.5 5.0 4.5 5.0 4.5 5.0 4.5 5.0 4.5 5.0 4.5 5.0 5.0 5 5.0 5 5.0 5 5.0 5 5.0 5 5 5 5
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29						 	2.5 2.3 .2 1.1 2.3 4.1 .9 3.8 5.5 5.9 5.4 5.2 5.7 4.6 5.3 4.2 2.6 5.5 5.3 5.0	.0 .0 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1.1 1.0 .0 .2 .7 1.3 .1 1.0 2.3 2.6 2.5 2.6 3.1 2.7 2.5 2.8 .5 1.2	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.6 9.2 6.6 8.1 8.8 7.2 9.7 9.6 7.1 9.5 6.7 10.7 6.6 8.8 7.5 6.5 7.6	1.1 .0 .2 1.2 2.0 2.5 1.6 2.6 1.6 1.6 1.7 1.7 1.9 2.1 1.7 2.1 2.8 1.8 2.4 3.5 2.4 3.5 2.4 3.9 1.9 2.5 3.9	2.1 3.5 4.8 5.6 5.1 5.0 6.0 5.5 4.1 4.4 5.2 4.4 5.1 5.2 4.4 4.5 5.6 4.8 4.8 5.0 4.5 5.6 4.8 5.6 4.8 5.6 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30						 	2.5 2.3 .2 1.1 2.3 4.1 .9 3.8 5.5 5.9 5.4 5.7 4.6 5.3 4.2 2.6 4.2 2.6 5.5 5.3 6.5	.0 .0 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1.1 1.0 .0 .0 .2 .7 1.3 .1 .1 1.0 2.3 2.6 2.5 2.6 3.1 2.7 2.5 2.8 3.1 2.7 2.5 2.8 3.1 2.7 2.8 3.1 2.6 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.6 9.2 6.6 8.1 8.8 7.2 9.7 9.0 9.5 6.7 7.6 5.7 10.7 6.6 8.8	1.1 .0 .2 1.2 2.0 2.2 2.5 1.6 2.6 1.6 1.3 2.1 1.7 1.9 2.1 2.8 1.8 2.4 3.5 2.4 3.5 2.4 3.5 2.5 3.7	2.1 3.5 4.8 5.6 5.1 6.0 6.0 6.5 4.1 4.4 5.4 5.2 4.5 6.4 4.5 5.8 4.5 5.8 4.5 5.8 4.5 5.8 4.5 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29						 	2.5 2.3 .2 1.1 2.3 4.1 .9 3.8 5.5 5.9 5.4 5.2 5.7 4.6 5.3 4.2 2.6 5.5 5.3 5.0	.0 .0 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1.1 1.0 .0 .2 .7 1.3 .1 1.0 2.3 2.6 2.5 2.6 3.1 2.7 2.5 2.8 .5 1.2	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.6 9.2 6.6 8.1 8.8 7.2 9.7 9.6 7.1 9.5 6.7 10.7 6.6 8.8 7.5 6.5 7.6	1.1 .0 .2 1.2 2.0 2.5 1.6 2.6 1.6 1.6 1.7 1.7 1.9 2.1 1.7 2.1 2.8 1.8 2.4 3.5 2.4 3.5 2.4 3.9 1.9 2.5 3.9	2.1 3.5 4.8 5.6 5.1 5.0 6.0 5.5 4.1 4.4 5.2 4.4 5.1 5.2 4.4 4.5 5.6 4.8 4.8 5.0 4.5 5.6 4.8 5.6 4.8 5.6 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30						 	2.5 2.3 .2 1.1 2.3 4.1 .9 3.8 5.5 5.9 5.4 5.7 4.6 5.3 4.2 2.6 4.2 2.6 5.5 5.3 6.5	.0 .0 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1.1 1.0 .0 .0 .2 .7 1.3 .1 .1 1.0 2.3 2.6 2.5 2.6 3.1 2.7 2.5 2.8 3.1 2.7 2.5 2.8 3.1 2.7 2.8 3.1 2.6 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.6 9.2 6.6 8.1 8.8 7.2 9.7 9.0 9.5 6.7 7.6 5.7 10.7 6.6 8.8	1.1 .0 .2 1.2 2.0 2.2 2.5 1.6 2.6 1.6 1.3 2.1 1.7 1.9 2.1 2.8 1.8 2.4 3.5 2.4 3.5 2.4 3.5 2.5 3.7	2.1 3.58 5.6 5.0 6.5 4.4 5.4 5.2 4.5 6.6 5.0 6.5 4.1 4.4 5.4 4.5 5.4 4.5 6.4 4.5 5.6 4.5 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31						 	2.5 2.3 .2 1.1 2.3 4.1 .9 3.8 5.5 5.9 5.4 5.2 5.7 4.6 5.3 4.8 2.6 4.2 2.6 5.5 5.3 5.0 6.5	.00 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1.1 1.0 .0 .2 .7 1.3 .1 1.0 2.3 2.6 2.5 2.6 3.1 2.7 2.5 2.8 .5 1.2 1.1 2.4 3.6 3.6 3.1	5.1 7.1 9.0 9.3 7.3 8.2 8.6 9.6 9.2 6.6 8.1 8.8 7.2 9.7 7.6 5.7 10.7 6.6 8.8 7.5 7.6 5.7 10.7 6.6 8.8	1.1 .0 .2 1.2 2.0 2.5 1.6 2.6 1.6 1.6 1.7 1.9 2.1 1.7 2.1 2.1 2.8 1.8 2.4 3.5 2.4 3.5 2.4 3.9 3.7 3.0	2.1 3.58 5.6 5.16 5.00 5.5 4.14 5.4 5.12 4.5 5.6 4.8 5.6 4.8 5.0 4.5 5.4 6.6 7.1

06705500 GENEVA CREEK AT GRANT, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMB	ER
1 2 3 4 5	11.8 11.3 11.7 12.8 9.7	3.5 3.2 3.3 4.8 3.9	7.2 6.9 7.3 8.2 6.8	12.3 12.5 13.4 11.4	4.7 3.5 4.6 6.0 5.0	8.4 8.6 9.6 8.2	14.1 13.5 14.0 12.5 11.7	8.6 9.3 7.9 9.0 9.9	11.5 11.5 11.0 11.0	12.1 14.4 13.9 12.6 12.5	8.4 9.5 9.1 9.3 7.8	10.5 11.9 12.0 11.2 10.5
6 7 8 9 10	7.6 8.5 6.2 8.0 8.8	4.2 3.7 4.0 2.5 4.2	5.7 5.9 5.2 5.1 6.3	10.2 	4.9 4.7 6.0 4.9 5.5	8.3 	10.6 11.2 13.3 11.2 11.3	7.8 5.6 6.1 7.6 8.3	9.0 8.4 9.8 9.4 9.4	10.8 11.9 11.2 10.6 11.1	8.0 6.1 7.1 6.3	9.7 9.1 9.3 9.0
11 12 13 14 15	10.7 9.4 9.5 10.5 10.9	3.6 3.3 4.1 4.8 3.1	6.5 6.2 6.6 7.3 6.5	9.9 14.1 14.4	6.6 5.4 5.9 6.0 6.5	8.3 10.0 10.7	9.8 10.5 10.3 10.5 12.9	5.9 4.8 5.4 6.4 6.5	8.2 7.8 8.1 8.6 9.7	11.1 11.6 11.1 10.9 10.5	7.9 7.5 6.0 6.9	9.6 9.6 8.9 9.3 8.8
16 17 18 19 20	9.2 10.9 12.1 12.9 12.8	3.5 4.2 4.0 5.3 4.3	6.2 7.4 7.8 8.7 8.2	12.2 11.1 10.3 11.2 12.1	6.6 6.5 6.9 7.5	9.8 9.3 8.7 8.9 9.9	12.2 11.7 12.5 11.8 12.4	6.5 7.1 8.2 6.7 6.6	9.6 9.7 10.3 9.4 9.6	9.9 9.9 10.6 10.0 8.6	6.7 5.2 6.6 6.7 6.6	8.5 7.7 8.6 8.4 7.7
21 22 23 24 25	10.9 12.4 10.3 9.2 11.2	4.5 5.2 4.9 4.4 4.9	7.8 8.8 7.5 6.9 7.8	12.3 11.3 12.2 15.5 13.9	6.7 7.4 7.6 8.1 8.4	9.8 9.6 10.2 11.7 11.4	10.3 11.7 12.2 11.8 11.5	7.3 6.7 7.1 7.4 7.6	8.8 9.3 10.0 9.8 9.8	8.9 8.4 7.6 8.8 9.0	7.0 6.8 5.2 3.9 4.2	7.9 7.6 6.5 6.6 7.0
26 27 28 29 30 31	12.6 10.8 10.2 11.2 13.3	5.1 5.0 4.7 4.4 4.2	8.5 8.0 7.6 8.0 8.6	12.3 11.3 10.4 12.8 14.7	8.1 9.4 8.7 8.8 9.4 9.7	10.6 10.5 9.5 10.5 11.9	11.9 13.1 12.5 13.1 11.4 12.1	8.2 7.7 8.4 8.1 7.6 7.4	10.1 10.5 10.8 10.8 9.7 9.9	9.5 10.1 8.3 8.1 8.6	6.4 6.8 4.7 3.5 4.1	8.1 8.4 6.8 6.2 6.7
MONTH	13.3	2.5	7.2		3.5		14.1	4.8	9.7	14.4		

06705500 GENEVA CREEK AT GRANT, CO--Continued PRECIPITATION RECORDS

PERIOD OF RECORD.--May 1995 to September 1997 (discontinued), seasonal records only.

GAGE.--Tipping-bucket rain gage (no wind shields used) with satellite telemetry. Elevation of gage is 8,760 ft above sea level, from topographic map.

REMARKS.--Records poor.

ESTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 0.92 inches, May 18, 1995.

EXTREMES FOR CURRENT YEAR .-- Maximum daily rainfall during period of seasonal operation, 0.75 inches, June 8.

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

						DAILY	SUM VALU	ES				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00						.00	.00	.00	.00	.09	.17
2	.00						.00	.00	.00	.00	.01	.04
3	.00						.27	.00	.00	.00	.00	.35
4	.00						.01	.00	.04	.00	.38	.05
5	.00						.00	.00	.01	.00	.14	.00
6	.00						.00	.00	.56	.00	.18	.01
7	.00						.00	.00	.04	.06	.09	.00
8	.00						.04	.00	.75	.05	.00	.00
9	.00						.05	.00	.08	.01	.38	.00
10	.00						.00	.00	.00	.00	.07	.00
11	.00						.00	.09	.06	.00	.01	.05
12	.00						.00	.18	.01	.00	.02	.01
13	.00						.01	.00	.09	.00	.00	.00
14	.00						.05	.01	.02	.30	.00	.00
15	.00						.02	.00	.00	.00	.00	.00
16	.15						.00	.00	.03	.00	.00	.00
17	.00						.00	.00	.00	.01	.30	.00
18	.00						.00	.00	.00	.05	.14	.00
19	.00						.00	.00	.00	.02	.00	.11
20	.00						.05	.02	.00	.00	.05	.10
21	.00						.14	.13	.13	.00	.00	.01
22	.00						.00	.34	.00	.00	.00	.03
23	.00						.05	.17	.11	.02	.00	.02
24	.00						.00	.01	.01	.00	.06	.00
25	.00						.02	.02	.00	.00	.00	.00
26	.00						.02	.00	.00	.00	.05	.00
27	.02						.47	.00	.00	.24	.10	.00
28	.00						.16	.00	.00	.17	.33	.00
29	.00						.00	.02	.00	. 26	.00	.00
30	.00						.01	.00	.00	.02	.13	.00
31	.00							.00		.20	.00	
TOTAL	0.17						1.37	0.99	1.94	1.41	2.53	0.95

06706000 NORTH FORK SOUTH PLATTE RIVER BELOW GENEVA CREEK, AT GRANT, CO

LOCATION.--Lat 39°27'26", long 105°39'29", in NW1/4 sec.10, T.7 S., R.74 W., Park County, Hydrologic Unit 10190002, on left bank at Grant, 1,550 ft downstream from Geneva Creek, and 1.3 mi downstream from east portal of Harold D. Roberts tunnel.

DRAINAGE AREA.--127 mi².

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

REVISED RECORDS.--WSP 956: Drainage area at site at Cassells. WSP 1116: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Datum of gage is 8,560.81 ft above sea level, adjustment of 1960. See WSP 1710 or 1730 for history of changes prior to July 23, 1948. July 23, 1948 to Nov. 15, 1968, water-stage recorder at site 50 ft downstream at datum 3.49 ft, lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. Small diversions upstream from station for irrigation of about 200 acres. Diversions from Colorado River basin to North Fork South Platte River upstream from station through Harold D. Roberts tunnel (see elsewhere in this report).

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

COOL	EKATIO	ivRecords	Conecieu	and com	puted by Co.	iorado D	VIVISION OF W	ater Kest	Juices an	iu ie vieweu i	y deolo	gicai Sui
			DISCHA	RGE, CUBIO	C FEET PER SE		ATER YEAR O IEAN VALUES		996 TO SEI	PTEMBER 1997		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	326 429 280 209 255	107 110 90 90 116	113 113 108 110 112	105 106 106 107 107	105 105 104 104 104	27 26 26 25 24	30 30 e36 33 e32	125 40 42 47 107	381 427 441 477 492	303 285 272 260 252	153 153 143 164 168	145 124 172 179 118
6 7 8 9 10	254 168 38 37 93	130 121 127 135 135	114 114 114 114 114	108 108 108 108 108	105 106 104 104 104	25 22 e19 e18 e18	e32 e32 e33 133 90	180 191 200 139 112	472 574 560 529 495	240 232 240 225 272	172 189 160 163 221	75 76 71 69 68
11 12 13 14 15	197 289 300 305 305	126 112 110 109 125	114 114 113 111 114	108 108 108 108 108	104 104 104 103 103	e18 18 19 e21 21	47 52 60 122 147	132 127 130 157 168	482 456 496 492 469	383 430 471 519 626	179 162 150 140 126	69 68 63 61 60
16 17 18 19 20	258 127 64 45 43	127 134 141 137 98	110 104 104 105 105	107 106 106 106 105	78 45 37 45 85	24 26 26 65 113	160 166 196 236 244	214 257 280 285 285	458 463 475 510 518	562 647 648 650 642	116 114 118 105 99	110 208 258 280 290
21 22 23 24 25	41 154 246 223 240	42 42 93 122 115	105 105 105 105 105	105 105 105 105 105	44 28 29 28 28	66 37 41 43 e33	234 171 179 256 261	268 303 290 310 288	491 488 478 452 402	651 660 483 625 636	98 94 89 87 96	280 253 215 98 56
26 27 28 29 30 31	187 36 35 54 74 74	110 110 108 110 112	106 108 106 107 108	105 105 104 105 105 105	28 28 27 	e33 42 e36 38 e34 e34	259 256 185 266 264	278 249 236 248 266 315	381 365 352 338 318	634 641 614 253 167 205	94 91 95 117 175 189	55 58 56 77 108
TOTAL MEAN MAX MIN AC-FT	5386 174 429 35 10680	3344 111 141 42 6630	3388 109 114 104 6720	3295 106 108 104 6540	2093 74.8 106 27 4150	1018 32.8 113 18 2020	4242 141 266 30 8410	6269 202 315 40 12430	13732 458 574 318 27240	13728 443 660 167 27230	4220 136 221 87 8370	3820 127 290 55 7580
STATIST	rics of i	MONTHLY MEA	N DATA F	OR WATER	YEARS 1909	- 1997,	BY WATER Y	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	66.9 340 1979 20.5 1945	61.0 189 1979 19.6 1944	52.7 130 1990 11.4 1944	48.0 161 1981 8.57 1944	44.0 132 1981 8.43 1944	38.4 142 1995 10.6 1944	53.9 255 1995 18.2 1944	153 303 1970 67.4 1963	299 592 1993 74.0 1963	238 613 1993 49.5 1963	159 450 1978 34.6 1954	92.2 277 1993 26.0 1944
SUMMARY	STATIS	TICS	FOR	1996 CALE	NDAR YEAR	F	OR 1997 WAT	TER YEAR		WATER YEA	RS 1909	- 1997
LOWEST HIGHEST LOWEST	MEAN C ANNUAL ANNUAL C DAILY DAILY M	MEAN MEAN		54298 148 677 25 26	Jun 11 Feb 24 Feb 19		64535 177 660 e,b ₁₈ 19	Jul 22 Mar 9 Mar 8		a72.1 239 35.9 973 6.5 7.2	Nov	1978 1954 18 1995 27 1958 11 1944
INSTANT INSTANT ANNUAL 10 PERC 50 PERC	TANEOUS 1	PEAK FLOW PEAK STAGE (AC-FT) EEDS EEDS		107700 353 105 28	FCD 19		691 1.98 128000 454 113 35	Jul 28 Jul 28		1160 ^C 2.48 ^a 52240 278 62 18	Jun	18 1995 18 1995

a-Adjusted for inflow from Harold D. Roberts tunnel since 1964. b-Also occurred Mar 10-12. c-Maximum gage height, 4.72 ft, Feb 11, 1952, site and datum then in use.

393040105340400 DEER CREEK NEAR BAILEY, CO

 $LOCATION.--Lat\ 39^{o}30'40", long\ 105^{o}34'04", in\ SW^{1}/_{4}NW^{1}/_{4}, sec.\ 21, T.6\ S., R.73\ W., Park\ County,\ Hydrologic\ Unit\ 10190002, on\ left\ bank\ 200\ ft\ upstream\ from\ Deer\ Creek\ Trailhead\ parking\ lot,\ and\ 13\ mi\ northwest\ of\ Bailey.$

DRAINAGE AREA.--13.4 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1996 to September 1997 (discontinued).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,280 ft above sea level, from topographic map. REMARKS.--Records poor. No known regulation or diversion.

			DISCH	IARGE, CUB	IC FEET PEF		WATER YEA MEAN VAL		1996 TO SE	EPTEMBER 19	97	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	5.5 5.4 5.4 5.3 5.1	e4.6 e4.6 e4.6 e4.7 e4.7	e4.5 e4.5 e4.5 e4.5 e4.0	e5.0 e5.0 e6.0 e6.0 e5.0	e4.5 e4.5 e4.0 e4.0 e3.5	e2.4 e2.5 e2.6 e2.7 e2.8	e6.0 e5.0 e6.0 e6.0 e5.0	e5.0 e5.2 5.5 6.6 8.1	63 68 67 103 102	83 81 78 83 81	14 13 10 10	12 12 13 12
6 7 8 9 10	5.0 5.0 4.8 4.7 4.7	e4.7 e4.7 e4.5 e4.5 e5.0	e4.0 e4.0 e4.0 e4.0 e4.0	e4.5 e4.0 e4.0 e4.0 e4.0	e3.0 e3.0 e2.5 e2.5 e2.5	e3.0 e3.0 e3.0 e3.0	e4.5 e4.5 e5.0 e5.0 e5.0	9.0 10 10 12 16	81 83 81 95 90	80 76 67 63 e58	15 18 18 21 25	12 12 12 11 12
11 12 13 14 15	4.7 4.6 4.6 4.6 4.6	e5.0 e5.0 e4.5 e4.5 e4.0	e4.5 e5.0 e5.0 e5.0 e4.0	e3.5 e3.0 e3.0 e3.5	e2.5 e2.5 e2.5 e2.5 e2.5	e3.0 e3.0 e3.0 e3.0	e5.0 e5.0 e5.0 e5.0 e5.0	17 14 16 17 20	66 62 59 61 67	e52 e49 e45 e42 e40	17 17 17 e15 e16	12 11 11 11 10
16 17 18 19 20	e4.6 e4.5 5.8 5.1 4.7	e4.0 e4.0 e4.0 e4.0 e4.0	e3.5 e3.0 e3.0 e3.0 e3.0	e3.5 e3.5 e3.5 e4.0	e2.5 e2.6 e2.7 e2.8 e2.8	e3.0 e3.0 e3.1 e3.2	e5.0 e5.0 e5.0 e5.0 e6.0	27 34 36 36 34	71 87 96 98 92	e37 e34 e31 e29 e26	15 15 15 14 e14	10 9.7 9.6 9.4 8.8
21 22 23 24 25	3.5 3.7 3.7 e4.0 e4.2	e4.0 e4.0 e4.0 e4.0 e4.0	e3.5 e4.0 e4.0 e4.0 e4.0	e4.0 e3.5 e3.5 e3.5 e3.5	e2.5 e2.5 e2.5 e2.5 e2.5	e3.3 3.4 3.7 e4.0 e4.0	e7.0 e6.0 e6.0 e5.0 e4.5	32 39 35 39 37	89 82 82 82 80	e24 e22 e20 e19 e18	e12 11 11 11 12	8.5 8.2 8.1 7.9 8.0
26 27 28 29 30 31	e4.2 e4.3 e4.4 e4.5 e4.6 e4.6	e4.0 e4.0 e4.5 e5.0 e5.0	e4.0 e4.5 e5.0 e5.0 e5.0	e3.5 e3.5 e3.5 e3.5 e4.0	e2.5 e2.5 e2.5	e4.0 e4.5 e5.0 e5.0 e6.0	e4.6 e4.7 e4.9 e5.2 e5.0	36 34 35 38 40 54	78 82 79 82 80	e17 16 20 21 16 14	13 13 11 10 11	8.0 7.6 7.3 7.6 7.5
TOTAL MEAN MAX MIN AC-FT	144.4 4.66 5.8 3.5 286	132.1 4.40 5.0 4.0 262	128.0 4.13 5.0 3.0 254	121.0 3.90 6.0 3.0 240	79.9 2.85 4.5 2.5 158	105.2 3.39 6.0 2.4 209	155.9 5.20 7.0 4.5 309	757.4 24.4 54 5.0 1500	2408 80.3 103 59 4780	1342 43.3 83 14 2660	437 14.1 25 10 867	301.2 10.0 13 7.3 597
								YEAR (WY		00.0	11 0	0.00
MEAN MAX (WY) MIN (WY)	4.66 4.66 1997 4.66 1997	4.40 4.40 1997 4.40 1997	4.13 4.13 1997 4.13 1997	3.90 3.90 1997 3.90 1997	2.79 2.85 1997 2.73 1996	3.23 3.39 1997 3.06 1996	4.97 5.20 1997 4.75 1996	22.0 24.4 1997 19.7 1996	53.6 80.3 1997 27.0 1996	29.9 43.3 1997 16.5 1996	11.3 14.1 1997 8.42 1996	8.08 10.0 1997 6.12 1996
SUMMARY	Y STATIST	ICS			FOR 1	997 WATER	YEAR			WATER YE.	ARS 1996	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT ANNUAL 10 PERC	MEAN I ANNUAL ANNUAL M I DAILY M DAILY ME SEVEN-DA IANEOUS P	EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS			1 1 121	^e 2.4 M 2.5 F 36 J 1.41 J	un 4 ar 1 eb 23 un 4 un 4			16.7 16.7 16.7 103 e2.4 2.5 136 1.41 12130 34 5.8 3.0		1997 1997 4 1997 1 1997 23 1997 4 1997 4 1997

e-Estimated.

393040105340400 DEER CREEK NEAR BAILEY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1996 to September 1997 (discontinued).

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: May 1995 to September 1997 (discontinued).

WATER TEMPERATURE: May 1995 to September 1997 (discontinued).

INSTRUMENTATION.--Water-quality monitor since with satellite telemetry May 1995.

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

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum 51 microsiemens, May 1-4, 1997; minimum, 22 microsiemens, June 1, 1997. WATER TEMPERATURE: Maximum 9.9°C, July 14, 1996; minimum 0.0°C, many days during winter months.

EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 51 microsiemens, May 1-4; minimum, 22 microsiemens June 1. WATER TEMPERATURE: Maximum, 9.5°C, Sept. 2; minimum, 0.0°C, on many days during winter months.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DE	ECEMBER			JANUAR	Z.
1	42	41	41	40	39	39						
2	42	41	41	40	39	39						
3	42	41	42	40	39	39						
4	42	41	42	40	39	39						
5	42	41	42	40	39	39						
6	42	41	42									
7	42	41	41									
8	42	41	41				42	40	40			
9	42	41	41				41	40	40			
10	42	41	41	40	39	39						
11	42	41	41	40	39	40						
12	42	41	41	40	39	39						
13	42	41	41	40	39	39						
14	42	41	41	40	39	40						
15	42	41	41	40	39	39						
13	72		41	40	3,5	3,7						
16	41	40	41									
17	42	40	41									
18	43	38	40	40	39	39						
19	40	39	40	40	39	39						
20	40	39	39	40	39	40						
20	40	39	39	40	39	40						
21				40	40	40						
22				40	40	40						
23				40	40	40						
24	40	39	39									
25	40	39	40									
26	40	39	40									
27	40	38	39									
28	40	39	40									
29	40	39	39									
30	40	38	39									
31	40	39	39									
MONTH												

393040105340400 DEER CREEK NEAR BAILEY, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	1	FEBRUARY			MARCH			APRIL			MAY	
1 2							45	43	44	51 51	50 45	50 48
3										51	43	47
4							45	43	44	51	45	49
5							45	42	44	49	45	47
6										49	45	47
7 8										48 46	42 43	45 44
9							45	44	45	45	37	43
10										43	37	41
11										41	38	39
12										43	40	42
13 14										43 41	39 39	42 40
15										41	35	39
16							46	43	45	39	32	36
17							46	41	44	37	27	34
18							46	40	44	31	27	29
19 20							45 45	42 40	43 43	32 31	28 28	30 30
20							43	40	13	31	20	30
21							45	41	44	33	31	32
22 23							47 47			34 35	32 32	33 34
24										34	33	33
25										35	33	34
26										34	33	34
27				44	43	44				35	33	34
28 29				44 44			48 50	45 48	47 49	35 35	34 33	34 34
30							50			34	31	34
31				45	44	44				32	23	30
MONTH										51	23	38
		JUNE			JULY		i	AUGUST		5	SEPTEMBE	R
1	30		26	32		32			25			
1 2	30 29	JUNE 22 23	26 27	32 32	JULY 31 32	32 32	36 36	AUGUST 35 35	35 36	37 37	SEPTEMBE 35 36	R 36 36
2 3	29 30	22 23 24	27 28	32 33	31 32 32	32 32	36 36 36	35 35 33	36 35	37 37 37	35 36 35	36 36 36
2 3 4	29 30 	22 23 24	27 28 	32 33 33	31 32 32 32	32 32 32	36 36 36 36	35 35 33 34	36 35 35	37 37 37 36	35 36 35 35	36 36 36 35
2 3 4 5	29 30 	22 23 24	27 28 	32 33	31 32 32 32 32	32 32	36 36 36	35 35 33 34 35	36 35	37 37 37	35 36 35	36 36 36 35 35
2 3 4 5	29 30 30	22 23 24 	27 28 29	32 33 33 33 33	31 32 32 32 32 32	32 32 32 33 33	36 36 36 36 36	35 35 33 34 35	36 35 35 35	37 37 37 36 37	35 36 35 35 34 35	36 36 36 35 35
2 3 4 5 6 7	29 30 30 30	22 23 24 28 27	27 28 29 29	32 33 33 33 33 33	31 32 32 32 32 32 32	32 32 32 33 33	36 36 36 36 36 36	35 35 33 34 35 34 35	36 35 35 35 35	37 37 37 36 37 37	35 36 35 35 34 35 35	36 36 35 35 35 36
2 3 4 5 6 7 8 9	29 30 30 30 30 29 28	22 23 24 28 27 26 26	27 28 29 29 28 28	32 33 33 33 33 33 33 34	31 32 32 32 32 32 32 33 33 33	32 32 32 33 33 33 33 33	36 36 36 36 36 35 35	35 35 33 34 35 34 34 34 34	36 35 35 35 35 34 35 35	37 37 37 36 37 37 37 37 37	35 36 35 35 34 35 35 35 35	36 36 35 35 35 36 36 36
2 3 4 5 6 7 8	29 30 30 30 29	22 23 24 28 27 26	27 28 29 29 28	32 33 33 33 33 33 33	31 32 32 32 32 32 32 33 33	32 32 32 33 33 33 33	36 36 36 36 36 36 35	35 35 33 34 35 34 34 34	36 35 35 35 35 34 35	37 37 37 36 37 37 37	35 36 35 35 34 35 35 35	36 36 35 35 35 36 36
2 3 4 5 6 7 8 9	29 30 30 30 30 29 28	22 23 24 28 27 26 26	27 28 29 29 28 28	32 33 33 33 33 33 33 34	31 32 32 32 32 32 32 33 33 33	32 32 32 33 33 33 33 33	36 36 36 36 36 35 35	35 35 33 34 35 34 34 34 34	36 35 35 35 35 34 35 35	37 37 37 36 37 37 37 37 37	35 36 35 35 34 35 35 35 35	36 36 35 35 35 36 36 36
2 3 4 5 6 7 8 9 10	29 30 30 30 29 28 29 30 31	22 23 24 28 27 26 26 27 28 29	27 28 29 29 28 28 28 28	32 33 33 33 33 33 34 34 34	31 32 32 32 32 32 33 33 33 33 33 33	32 32 32 33 33 33 33 33 33 33 33 33	36 36 36 36 36 35 35 35 35 35	35 35 33 34 35 34 34 34 34 34 34	36 35 35 35 34 35 35 34 35 34 34	37 37 37 36 37 37 37 37 37 37 37	35 36 35 35 34 35 35 35 35 35 35 35	36 36 35 35 35 36 36 36 36 36
2 3 4 5 6 7 8 9 10 11 12 13	29 30 30 30 29 28 29 30 31 31	22 23 24 28 27 26 26 27 28 29 30	27 28 29 29 28 28 28 28 29 30	32 33 33 33 33 33 34 34 34 34	31 32 32 32 32 32 33 33 33 33 33 33 33	32 32 32 33 33 33 33 33 33 33 33 33	36 36 36 36 36 35 35 35 35 35 35	35 35 33 34 35 34 34 34 34 34 34 34	36 35 35 35 34 35 34 34 34 34	37 37 37 36 37 37 37 37 37 37 37	35 36 35 35 34 35 35 35 35 35 35 35 35	36 36 35 35 35 36 36 36 36 36 36 36
2 3 4 5 6 7 8 9 10	29 30 30 30 29 28 29 30 31	22 23 24 28 27 26 26 27 28 29	27 28 29 29 28 28 28 28	32 33 33 33 33 33 34 34 34	31 32 32 32 32 32 33 33 33 33 33 33	32 32 32 33 33 33 33 33 33 33 33 33	36 36 36 36 36 35 35 35 35 35	35 35 33 34 35 34 34 34 34 34 34	36 35 35 35 34 35 35 34 35 34 34	37 37 37 36 37 37 37 37 37 37 37	35 36 35 35 34 35 35 35 35 35 35 35	36 36 35 35 35 36 36 36 36 36
2 3 4 5 6 7 8 9 10 11 12 13 14 15	29 30 30 30 29 28 29 30 31 31 31 30	22 23 24 28 27 26 26 27 28 29 30 28 29	27 28 29 29 28 28 28 29 30 30 30 30	32 33 33 33 33 34 34 34 34 35 35	31 32 32 32 32 33 33 33 33 33 33 33 33 33	32 32 32 33 33 33 33 33 33 33 34 34 34	36 36 36 36 36 35 35 35 35 35 35 35	35 33 34 35 34 34 34 34 34 34 34 34	36 35 35 35 34 35 34 34 34 34 34	37 37 37 36 37 37 37 37 37 37 37 37 37 37 37 36 36	35 36 35 35 35 35 35 35 35 35 35 35 35 35 35	36 36 35 35 36 36 36 36 36 36 36 36 36
2 3 4 5 6 7 8 9 10 11 12 13 14	29 30 30 30 30 29 28 29 30 31 31 31	22 23 24 28 27 26 26 27 28 29 30 28	27 28 29 29 28 28 28 28 29 30 30 30	32 33 33 33 33 33 34 34 34 34 35	31 32 32 32 32 32 33 33 33 33 33 33 33	32 32 32 33 33 33 33 33 33 33 33 34 34	36 36 36 36 36 35 35 35 35 35 35 35	35 35 33 34 35 34 34 34 34 34 34 34	36 35 35 35 34 35 34 34 34 34 34	37 37 37 36 37 37 37 37 37 37 37 37 37 37	35 36 35 35 34 35 35 35 35 35 35 35 35	36 36 35 35 36 36 36 36 36 36 36 36
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	29 30 30 30 29 28 29 31 31 31 31 30 31 32	22 23 24 28 27 26 26 27 28 29 30 28 29	27 28 29 29 28 28 28 29 30 30 30 30 30 31	32 33 33 33 33 33 34 34 34 35 35 35	31 32 32 32 32 32 33 33 33 33 33 33 34 34 34	32 32 32 33 33 33 33 33 33 33 34 34 34 34	36 36 36 36 36 35 35 35 35 35 35 35 35 35 35 35 35 35	35 33 34 35 34 34 34 34 34 34 34 34 34 34	36 35 35 35 34 35 34 34 34 34 34 34 35	37 37 37 36 37 37 37 37 37 37 37 37 37 36 36 36	35 36 35 35 35 35 35 35 35 35 35 35 35 35 35	36 36 35 35 36 36 36 36 36 36 36 36 36 36 36 36 36
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	29 30 30 30 29 28 29 30 31 31 31 31 32 32 32	22 23 24 28 27 26 26 26 27 28 29 30 28 29	27 28 29 29 28 28 28 28 29 30 30 30 30 30 31 30 32 31 30	32 33 33 33 33 34 34 34 34 35 35 35	31 32 32 32 32 33 33 33 33 33 33 34 34 34	32 32 32 33 33 33 33 33 33 34 34 34 34 34	36 36 36 36 36 35 35 35 35 35 35 35 35 35 35 35	35 33 34 35 34 34 34 34 34 34 34 34 34 34 34	36 35 35 35 34 35 34 34 34 34 34 34 34 34 34	37 37 37 36 37 37 37 37 37 37 37 37 36 36 36 36	35 36 35 35 34 35 35 35 35 35 35 35 35 35 35 35 35 35	36 36 35 35 36 36 36 36 36 36 36 36 36 36 36 36 36
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	29 30 30 30 29 28 29 31 31 31 31 32 32 32 32	22 23 24 28 27 26 26 27 28 29 30 28 29 30 31 30 28 29	27 28 29 29 28 28 28 29 30 30 30 30 30 31 30 32 31 30	32 33 33 33 33 33 34 34 34 35 35 35 35 35	31 32 32 32 32 33 33 33 33 33 33 34 34 34 34	32 32 32 33 33 33 33 33 33 33 34 34 34 34 34 34	36 36 36 36 35 35 35 35 35 35 35 35 35 35 35 35 35	35 33 34 35 34 34 34 34 34 34 34 34 34 34 34 34	36 35 35 35 34 35 34 34 34 34 34 34 34 34 34	37 37 36 37 37 37 37 37 37 37 37 36 36 36 36 37 37	35 36 35 35 35 35 35 35 35 35 35 35 35 35 35	36 36 35 35 36 36 36 36 36 36 36 36 36 36 36 36 36
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	29 30 30 30 29 28 29 31 31 31 31 32 32 32 31	22 23 24 28 27 26 26 26 27 28 29 30 28 29 30 31 30 28 29	27 28 29 29 28 28 28 28 29 30 30 30 30 30 30 31	32 33 33 33 33 34 34 34 34 35 35 35 35 35	31 32 32 32 32 33 33 33 33 33 33 34 34 34 34	32 32 32 33 33 33 33 33 33 33 34 34 34 34 34 35	36 36 36 36 36 35 35 35 35 35 35 35 35 35 35 35 35 35	35 33 34 34 34 34 34 34 34 34 34 34 34 34	36 35 35 35 34 35 34 34 34 34 34 34 34 34 34 34 35 35 35 35 35 35 35 35 35 35 35 35 35	37 37 37 36 37 37 37 37 37 37 37 37 36 36 36 36 37 37 37	35 36 35 35 35 35 35 35 35 35 35 35 35 35 35	36 36 35 35 36 36 36 36 36 36 36 36 36 36 36 36 36
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	29 30 30 30 29 28 29 30 31 31 31 31 32 32 32 31 31 31	22 23 24 28 27 26 26 27 28 29 30 28 29 30 31 30 28 29	27 28 29 29 28 28 28 29 30 30 30 30 30 30 31 30 30 31 30	32 33 33 33 33 34 34 34 34 35 35 35 35	31 32 32 32 32 33 33 33 33 33 33 34 34 34 34 34	32 32 32 33 33 33 33 33 33 33 34 34 34 34 34 35	36 36 36 36 36 35 35 35 35 35 35 35 35 35 35 35 35 35	35 35 33 34 35 34 34 34 34 34 34 34 34 34 34 34 34 34	36 35 35 35 34 35 34 34 34 34 34 35 34 35 34 35 34	37 37 37 36 37 37 37 37 37 37 37 36 36 36 36 37 37 37	35 36 35 35 35 35 35 35 35 35 35 35 35 35 35	36 36 35 35 36 36 36 36 36 36 36 36 36 36 36 36 36
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	29 30 30 30 29 28 29 31 31 31 31 32 32 32 31 31 31 31 30	22 23 24 28 27 26 26 26 27 28 29 30 28 29 30 31 30 28 29	27 28 29 29 28 28 28 29 30 30 30 30 30 30 31 30 30 30 30	32 33 33 33 33 33 34 34 34 34 35 35 35 35 35 35 35	31 32 32 32 32 33 33 33 33 33 34 34 34 34 34 34	32 32 32 33 33 33 33 33 33 33 34 34 34 34 34 35 35	36 36 36 36 36 35 35 35 35 35 35 35 35 35 35 35 35 35	35 33 34 34 34 34 34 34 34 34 34 34 34 34	36 35 35 35 34 35 34 34 34 34 34 34 34 35 34 35 35 35 35 35 35 35 35 35 35 35 35 35	37 37 37 36 37 37 37 37 37 37 37 37 36 36 36 36 37 37 37 37	35 36 35 35 35 35 35 35 35 35 35 35 35 35 35	36 36 35 35 36 36 36 36 36 36 36 36 36 36 36 37 37
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	29 30 30 30 29 28 29 30 31 31 31 32 32 32 32 31	22 23 24 28 27 26 26 27 28 29 30 28 29 30 28 29	27 28 29 29 28 28 28 29 30 30 30 30 30 30 31 30 30 30	32 33 33 33 33 34 34 34 34 35 35 35 35 35 35	31 32 32 32 32 33 33 33 33 33 33 34 34 34 34 34 34	32 32 32 33 33 33 33 33 33 33 34 34 34 34 34 35	36 36 36 36 35 35 35 35 35 35 35 35 35 35 35 35 35	35 33 34 35 34 34 34 34 34 34 34 34 34 34 34 34 34	36 35 35 35 34 35 34 34 34 34 34 34 35 34 35 34 35 35 35 35 35 35 35 35 35 35 36 36 36 36 36 36 36 36 36 36 36 36 36	37 37 37 36 37 37 37 37 37 37 37 36 36 36 36 37 37 37 37	35 36 35 35 35 35 35 35 35 35 35 35 35 35 35	36 36 36 35 36 36 36 36 36 36 36 36 36 36 36 36 37 37
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	29 30 30 30 29 28 29 31 31 31 31 32 32 32 31 31 31 31 30	22 23 24 28 27 26 26 26 27 28 29 30 28 29 30 31 30 28 29	27 28 29 29 28 28 28 29 30 30 30 30 30 30 31 30 30 30 30	32 33 33 33 33 33 34 34 34 34 35 35 35 35 35 35 35	31 32 32 32 32 33 33 33 33 33 34 34 34 34 34 34	32 32 32 33 33 33 33 33 33 33 34 34 34 34 34 35 35	36 36 36 36 36 35 35 35 35 35 35 35 35 35 35 35 35 35	35 33 34 34 34 34 34 34 34 34 34 34 34 34	36 35 35 35 34 35 34 34 34 34 34 34 34 35 34 35 35 35 35 35 35 35 35 35 35 35 35 35	37 37 37 36 37 37 37 37 37 37 37 37 36 36 36 36 37 37 37 37	35 36 35 35 35 35 35 35 35 35 35 35 35 35 35	36 36 35 35 36 36 36 36 36 36 36 36 36 36 36 37 37
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	29 30 30 30 29 28 29 31 31 31 31 32 32 32 31 31 31 30 30 31 31 31 31 31 31 31 31 31 31 31 31 31	22 23 24 28 27 26 26 26 27 28 29 30 28 29 30 28 29 30 28 29 30 28 29 30 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30	27 28 29 29 28 28 28 29 30 30 30 30 30 31 30 30 30 30 30 30 30 30 30 30 30 30 30	32 33 33 33 33 34 34 34 34 35 35 35 35 35 35 35 35	31 32 32 32 32 33 33 33 33 33 34 34 34 34 34 34 34 34	32 32 32 33 33 33 33 33 33 33 34 34 34 34 35 35 35 35	36 36 36 36 36 35 35 35 35 35 35 35 35 35 35 35 35 35	35 333 34 34 34 34 34 34 34 34 34 34 34 34	36 35 35 35 34 35 34 34 34 34 35 34 35 35 35 36 37 37 37 37 37 37 37 37 37 37 37 37 37	37 37 37 36 37 37 37 37 37 37 37 37 36 36 36 36 37 37 37 37 37 37 37 37 37 37 37 37 37	35 36 35 35 35 35 35 35 35 35 35 35 35 35 35	36 36 35 35 36 36 36 36 36 36 36 36 36 36 37 37 37 37 37 37 38
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	29 30 30 30 29 28 29 31 31 31 31 32 32 32 32 31 31 31 31 30 30 30 30 30 31 31 31 31 31 31 31 31 31 31 31 31 31	22 23 24 28 27 26 26 27 28 29 30 28 29 30 28 29 30 28 29 30 28 29 30 28 29	27 28 29 29 28 28 28 29 30 30 30 30 30 31 30 30 30 30 30 30 30 30 30 30 30 30 30	32 33 33 33 33 34 34 34 35 35 35 35 35 35 35 35 35	31 32 32 32 32 33 33 33 33 33 34 34 34 34 34 34 34 34	32 32 32 33 33 33 33 33 33 33 34 34 34 34 34 35 35 35 35 35	36 36 36 36 35 35 35 35 35 35 35 35 35 35 35 35 35	355 334 335 344 334 334 334 334 334 334	36 35 35 35 34 35 34 34 34 34 35 34 35 35 35 35 35 35 35 35 35 35 35 35 35	37 37 37 36 37 37 37 37 37 37 37 36 36 36 36 37 37 37 37 37 37 37 37 37 37 37 37 37	35 36 35 35 35 35 35 35 35 35 35 35 35 35 35	36 36 36 35 36 36 36 36 36 36 36 36 36 37 37 37 37 37 37
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	29 30 30 30 29 28 29 31 31 31 31 32 32 32 31 31 31 30 30 31 31 31 31 31 31 31 31 31 31 31 31 31	22 23 24 28 27 26 26 26 27 28 29 30 28 29 30 28 29 30 28 29 30 28 29 30 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30	27 28 29 29 28 28 28 29 30 30 30 30 30 31 30 30 30 30 30 30 30 30 30 30 30 30 30	32 33 33 33 33 34 34 34 34 35 35 35 35 35 35 35 35 35 35 35 35 35	31 32 32 32 32 33 33 33 33 33 34 34 34 34 34 34 34 34	32 32 33 33 33 33 33 33 33 33 34 34 34 34 35 35 35 35 35	36 36 36 36 36 35 35 35 35 35 35 35 35 35 35 35 35 35	35 333 34 34 34 34 34 34 34 34 34 34 34 34	36 35 35 35 34 35 34 34 34 34 35 34 35 35 35 36 37 37 37 37 37 37 37 37 37 37 37 37 37	37 37 37 36 37 37 37 37 37 37 37 37 36 36 36 36 37 37 37 37 37 37 37 37 37 37 37 37 37	35 36 35 35 35 35 35 35 35 35 35 35 35 35 35	36 36 35 35 36 36 36 36 36 36 36 36 36 36 37 37 37 37 37 37 38
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	29 30 30 30 29 28 29 30 31 31 31 31 30 31 32 32 32 31 31 31 30 30 30 30 31	22 23 24 28 27 26 26 27 28 29 30 28 29 30 28 29 30 28 29 30 28 29 30 28 29 30 31 31 31	27 28 29 29 28 28 28 28 29 30 30 30 30 30 30 31 30 30 30 30 30 30 30 30 30 30 30 30 30	32 33 33 33 33 33 34 34 34 35 35 35 35 35 35 35 35 35 35 35	31 32 32 32 32 33 33 33 33 33 34 34 34 34 34 34 34 34	32 32 32 33 33 33 33 33 33 33 34 34 34 34 34 35 35 35 35 35 35	36 36 36 36 36 35 35 35 35 35 35 35 35 35 35 35 35 35	35 33 34 34 34 34 34 34 34 34 34 34 34 34	36 35 35 35 34 34 34 34 34 34 35 34 35 35 35 35 35 35 35 35 35 35 35 35 35	37 37 37 36 37 37 37 37 37 37 37 37 36 36 36 36 37 37 37 37 37 37 37 38 38 38 38 38	35 36 35 35 35 35 35 35 35 35 35 35 35 35 35	36 36 36 35 36 36 36 36 36 36 36 36 36 36 37 37 37 38 37
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	29 30 30 30 29 28 29 30 31 31 31 31 30 31 32 32 32 31 31 31 30 30 30 30 30 31	22 23 24 28 27 26 26 26 27 28 29 30 28 29 30 28 29 30 28 29 30 28 29 30 28 29 30 28 29 30 31 30 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30	27 28 29 29 28 28 28 29 30 30 30 30 30 31 30 30 30 30 30 30 30 30 30 30 30 30 30	32 33 33 33 33 34 34 34 34 35 35 35 35 35 35 35 35 35 35 35 35 35	31 32 32 32 32 33 33 33 33 33 34 34 34 34 34 34 34 34	32 32 33 33 33 33 33 33 33 33 34 34 34 34 35 35 35 35 35	36 36 36 36 36 35 35 35 35 35 35 35 35 35 35 35 35 35	35 333 34 34 34 34 34 34 34 34 34 34 34 34	36 35 35 35 34 35 34 34 34 34 35 34 35 35 35 35 35 35 35 35 35 35 35 35 35	37 37 37 36 37 37 37 37 37 37 37 37 36 36 36 36 37 37 37 37 37 37 38 38 38 38 38 38 38	35 36 35 35 35 35 35 35 35 35 35 35 35 35 35	36 36 36 35 36 36 36 36 36 36 36 36 36 36 37 37 37 38

393040105340400 DEER CREEK NEAR BAILEY, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		INC	OVEMBER		DE	ECEMBER			JANUARY	
1	5.5	2.3	3.8	. 3	.0	.1						
2 3	5.5 5.8	2.1 4.3	3.9 5.0	. 2 . 9	.0	.0						
4	5.3	3.1	4.4	.8	.0	.3						
5	5.6	2.8	4.2	. 9	.0	.3						
6	5.2	2.3	3.8									
7	5.3	2.3	3.7									
8	5.4	2.2	3.7				.1	.0	.1			
9	5.3	2.1	3.6				. 2	.1	.1			
10	5.3	2.1	3.7	.6	.0	.2						
11	5.4	2.6	4.0	. 4	.0	.1						
12	5.5	2.7	4.0	. 8	. 2	. 4						
13 14	4.9 4.6	2.3	3.6 3.3	.9 .8	.1	.5 .5						
15	3.8	1.2	2.4	. 4	.0	. 2						
16 17	2.8	.5 .0	1.5									
18	.5	.0	. 2	. 2	.0	.0						
19	2.7	. 5	1.5	.5	. 2	. 4						
20	1.7	.0	.5	.8	. 2	. 5						
21				.7	.0	.3						
22				1.0	. 2	.6						
23				.7	.0	. 4						
24	. 3	. 0	.1									
25	. 7	.0	. 2									
26	.1	.0	.0									
27	. 4	.0	.1									
28 29	1.4	. 3	.9 .1									
30	.5	.0	.1									
31	. 3	.0	.1									
MONTH												
MONIA												
		FEBRUARY			MARCH			APRIL			MAY	
1									0	1 7		E
1 2		FEBRUARY 			MARCH		.2	APRIL	. 0	1.7 1.3	. 0	.5
2							. 2	.0		1.7 1.3 2.7		.3
2 3 4	 			 			. 2 . 7	. 0 . 0	 .1	1.3 2.7 4.1	.0.0.0	.3 .9 1.4
2							. 2	.0		1.3 2.7	.0	.3
2 3 4	 			 			. 2 . 7	. 0 . 0	 .1	1.3 2.7 4.1	.0.0.0	.3 .9 1.4
2 3 4 5 6 7				 			.2 .7 .1	.0	 .1 .0	1.3 2.7 4.1 4.4 3.7 4.7	.0 .0 .0 .3 .4	.3 .9 1.4 1.9
2 3 4 5 6 7 8		 		 			.2 .7 .1	.0	.1 .0	1.3 2.7 4.1 4.4 3.7 4.7 3.8	.0 .0 .0 .0 .3	.3 .9 1.4 1.9 1.8 2.1 1.8
2 3 4 5 6 7 8 9				 			.2 .7 .1	.0	 .1 .0	1.3 2.7 4.1 4.4 3.7 4.7 3.8 4.9	.0 .0 .0 .0 .3 .4 .8 .5 .5	.3 .9 1.4 1.9 1.8 2.1 1.8 2.3
2 3 4 5 6 7 8				=== === === === ===			.2 .7 .1	.0	.1 .0	1.3 2.7 4.1 4.4 3.7 4.7 3.8 4.9 5.0	.0 .0 .0 .0 .3 .4 .8 .5	.3 .9 1.4 1.9 1.8 2.1 1.8 2.3 2.3
2 3 4 5 6 7 8 9 10						 	.2 .7 .1	.0	.1 .0	1.3 2.7 4.1 4.4 3.7 4.7 3.8 4.9 5.0	.0 .0 .0 .3 .4 .8 .5 .5	.3 .9 1.4 1.9 1.8 2.1 1.8 2.3 2.3
2 3 4 5 6 7 8 9 10				=== === === === ===			.2 .7 .1	.0	.1 .0	1.3 2.7 4.1 4.4 3.7 4.7 3.8 4.9 5.0	.0 .0 .0 .0 .3 .4 .8 .5 .5 .5 .6 .5	.3 .9 1.4 1.9 1.8 2.1 1.8 2.3 2.3
2 3 4 5 6 7 8 9 10 11 12 13						 	.2 .7 .1	.0	.1 .0	1.3 2.7 4.1 4.4 3.7 4.7 3.8 4.9 5.0	.0 .0 .0 .3 .4 .8 .5 .5 .5	.3 .9 1.4 1.9 1.8 2.1 1.8 2.3 2.3 2.3
2 3 4 5 6 7 8 9 10			 			==== ==== ==== ==== ====	.2 .7 .1 .5	.0	.1 .0	1.3 2.7 4.1 4.4 3.7 4.7 3.8 4.9 5.0	.0 .0 .0 .0 .3 .4 .8 .5 .5 .5 .6 .5	.3 .9 1.4 1.9 1.8 2.1 1.8 2.3 2.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15				 		 	.2 .7 .1 .5 	.0	.1 .0	1.3 2.7 4.1 4.4 3.7 4.7 3.8 4.9 5.0 3.0 4.7 4.5 4.3 5.7	.0 .0 .0 .3 .4 .8 .5 .5 .5 .5	.3 .9 1.4 1.9 1.8 2.1 1.8 2.3 2.3 2.3 2.3 2.4 2.2
2 3 4 5 6 7 8 9 10 11 12 13 14							.2	.0	.1	1.3 2.7 4.1 4.4 3.7 4.7 3.8 4.9 5.0 3.0 4.7 4.5 4.3 5.7 6.3	.0 .0 .0 .3 .4 .8 .5 .5 .5 .5	.3 .9 1.4 1.9 1.8 2.1 1.8 2.3 2.3 2.3 2.3 2.3 2.4 2.5 2.4 2.8
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18							.2 .7 .1 .5 .5 	.0	.1 .0 .1 .1 	1.3 2.7 4.1 4.4 3.7 4.7 3.8 4.9 5.0 3.0 4.7 4.5 4.3 5.7	.0 .0 .0 .3 .4 .8 .5 .5 .5 .5 .1 .0 .8 1.0	.3 .9 1.4 1.9 1.8 2.1 1.8 2.3 2.3 2.3 2.5 2.4 2.8 3.0 2.6
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18							.2 .7 .1 .5 .5 .5 1.6 2.2 2.7	.0	.1 .0 .0 .1 .1 .1 	1.3 2.7 4.1 4.4 3.7 4.7 3.8 4.9 5.0 3.0 4.7 4.5 4.3 5.7 6.3 6.3 4.5 5.9	.0 .0 .0 .3 .4 .8 .5 .5 .5 .5 .1 .0 .8 1.0	.3 .9 1.4 1.9 1.8 2.1 1.8 2.3 2.3 2.3 2.3 2.4 2.25 2.4 2.8 3.0 3.0 3.0 3.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18							.2 .7 .1 .5 .5 	.0	.1 .0 .1 .1 	1.3 2.7 4.1 4.4 3.7 4.7 3.8 4.9 5.0 3.0 4.7 4.5 4.3 5.7	.0 .0 .0 .3 .4 .8 .5 .5 .5 .5 .1 .0 .8 1.0	.3 .9 1.4 1.9 1.8 2.1 1.8 2.3 2.3 2.3 2.5 2.4 2.8 3.0 2.6
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18							.2 .7 .1 .5 .5 .5 1.6 2.2 2.7	.0	.1 .0 .0 .1 .1 .1 	1.3 2.7 4.1 4.4 3.7 4.7 3.8 4.9 5.0 3.0 4.7 4.5 4.3 5.7	.0 .0 .0 .3 .4 .8 .5 .5 .5 .5 .1 .0 .8 1.0	.3 .9 1.4 1.9 1.8 2.1 1.8 2.3 2.3 2.3 2.3 2.4 2.25 2.4 2.8 3.0 3.0 3.0 3.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22							.2 .7 .1 .5 .5 .5 1.6 2.2 2.7 3.1 3.1 2.2	.0	.1 .0 .1 .1 .1 .1 .3 .4 .9 1.1	1.3 2.7 4.1 4.4 3.7 4.7 3.8 4.9 5.0 3.0 4.7 4.5 4.3 5.7 6.3 6.3 4.5 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	.0 .0 .0 .3 .4 .8 .5 .5 .5 .5 .1 .0 .8 1.0 1.2 1.2 1.3 1.5 1.2	.3 .9 1.4 1.9 1.8 2.1 1.8 2.3 2.3 1.6 2.2 2.5 2.4 2.8 3.0 2.6 3.1 2.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23							.2 .7 .1 .5 .5 1.6 2.2 2.7 3.1 3.1 2.2	.00 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.1 .0 .1 .1 .1 .1 .3 .4 .9 1.1	1.3 2.7 4.1 4.4 3.7 4.7 3.8 4.9 5.0 3.0 4.7 4.5 4.3 5.7 6.3 4.5 5.9 4.8	.0 .0 .0 .0 .3 .4 .8 .5 .5 .5 .5 .5 .1 .0 .8 1.0 1.2 1.3 1.5 1.5	.3 .9 1.4 1.9 1.8 2.1 1.8 2.3 2.3 2.3 2.5 2.2 2.5 2.4 2.8 3.0 2.6 3.1 2.7 3.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24							.2 .7 .1 .5 .5 .5 1.6 2.2 2.7 3.1 3.1 2.2	.0	.1 .0 .1 .1 .1 .1 .3 .4 .9 1.1	1.3 2.7 4.1 4.4 3.7 4.7 3.8 4.9 5.0 3.0 4.7 4.5 4.3 5.7 6.3 6.3 4.5 5.9 4.8	.0 .0 .0 .0 .3 .4 .8 .5 .5 .5 .5 .1 .0 .8 1.0 1.2 1.2 1.3 1.5 1.2	.3 .9 1.4 1.9 1.8 2.1 1.8 2.3 2.3 2.5 2.4 2.5 2.5 2.4 2.8 3.0 3.0 3.1 2.7 3.1 2.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25							.27 .155 1.6 2.2 2.7 3.1 3.1 2.2 1.2	.0	.1 .0 .1 .1 .1 .3 .4 .9 1.1	1.3 2.7 4.1 4.4 3.7 4.7 3.8 4.9 5.0 3.0 4.7 4.5 4.3 5.7 6.3 4.5 5.9 4.8 4.9 4.9	.0 .0 .0 .0 .3 .4 .8 .5 .5 .5 .5 .1 .0 .8 1.0 1.2 1.3 1.5 1.5 1.2	.3 .9 1.4 1.9 1.8 2.1 1.8 2.3 2.3 2.3 2.5 2.2 2.5 2.4 2.8 3.0 3.0 2.6 3.1 2.7 3.2 2.8 2.8
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26							.2 .7 .1 .5 .5 1.6 2.2 2.7 3.1 3.1 2.2 1.2	.0	.1 .0 .1 .1 .1 .1 .3 .4 .9 1.1 1.1 .6 .3	1.3 2.7 4.1 4.4 3.7 4.7 3.8 4.9 5.0 3.0 4.7 4.5 4.3 5.7 6.3 6.3 4.5 5.9 4.8 4.9 3.1 5.5 4.1 5.2	.0 .0 .0 .3 .4 .8 .5 .5 .5 .5 .1 .0 .8 1.0 1.2 1.3 1.5 1.2 1.3 1.5 1.2 1.3 1.5 1.2	.3 .9 1.4 1.9 1.8 2.1 1.8 2.3 2.3 2.5 2.4 2.8 3.0 3.0 3.6 3.1 2.7 3.1 2.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27							.2 .7 .1 .5 .5 1.6 2.2 2.7 3.1 3.1 2.2 1.2	.0	.1 .0 .1 .1 .1 .1 .3 .4 .9 .1 .1	1.3 2.7 4.1 4.4 3.7 4.7 3.8 4.9 5.0 3.0 4.7 4.5 4.3 5.7 6.3 6.3 4.5 5.9 4.8 4.9 5.0	.0 .0 .0 .3 .4 .8 .5 .5 .5 .5 .1 .0 .8 1.0 1.2 1.2 1.3 1.5 1.2 1.8 2.3 1.6 1.9 1.2	.3 .9 1.4 1.9 1.8 2.1 1.8 2.3 2.3 1.6 2.2 2.5 2.4 2.8 3.0 2.6 3.1 2.7 3.2 2.7 3.2 2.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29							.2 .7 .1 .5 .5 1.6 2.2 2.7 3.1 3.1 2.2 1.2	.0	.1 .0 .1 .1 .1 .1 .3 .4 .9 1.1 1.1 .6 .3	1.3 2.7 4.1 4.4 3.7 4.7 3.8 4.9 5.0 3.0 4.7 4.5 4.3 5.7 6.3 6.3 4.5 5.9 4.8 4.9 3.1 5.5 4.1 5.2	.0 .0 .0 .3 .4 .8 .5 .5 .5 .5 .1 .0 .8 1.0 1.2 1.3 1.5 1.2 1.3 1.5 1.2 1.3 1.5 1.2	.3 .9 1.4 1.9 1.8 2.1 1.8 2.3 2.3 2.5 2.4 2.8 3.0 3.0 3.6 3.1 2.7 3.1 2.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30							.2 .7 .1 .5 .5 1.6 2.2 2.7 3.1 3.1 2.2 1.2 1.2 1.6 2.3	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.1 .0 .1 .1 .1 .1 .3 .4 .9 .1.1 1.1 .6 .3 	1.3 2.7 4.1 4.4 3.7 4.7 3.8 4.9 5.0 3.0 4.7 4.5 5.7 6.3 6.3 4.5 5.7 4.8 4.9 5.2 4.0 3.8 4.0 4.1 5.2 4.0 4.1 6.1 5.2 4.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6	.0 .0 .0 .3 .4 .8 .5 .5 .5 .5 .1 .0 .8 1.0 1.2 1.2 1.3 1.5 1.2 1.8 2.3 1.6 1.9 1.2	.3 .9 1.4 1.9 1.8 2.1 1.8 2.3 2.3 1.6 2.2 2.5 2.4 2.8 3.0 2.6 3.1 2.7 3.2 2.3 2.3 2.3 3.0 2.6 3.1 2.7 3.2 2.8 2.7 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29							.27 .155 1.6 2.2 2.7 3.1 3.1 2.2 1.2 1.2 1.6	.0	.1 .0 .1 .1 .1 .1 .1 .3 .4 .9 1.1 1.1 .6 .3 	1.3 2.7 4.1 4.4 3.7 4.7 3.8 4.9 5.0 3.0 4.7 4.5 4.3 5.7 6.3 4.5 5.9 4.8 4.9 3.1 5.2 4.0 3.8 4.9	.0 .0 .0 .3 .4 .8 .5 .5 .5 .5 .1 .0 .8 1.0 1.2 1.3 1.5 1.2 1.3 1.5 1.2 1.3 1.5 1.2	.3 .9 1.4 1.9 1.8 2.1 1.8 2.3 2.3 2.3 2.5 2.4 2.5 2.4 2.8 3.0 3.0 2.6 3.1 2.7 3.1 2.7 3.1 2.8 2.8 2.8 2.8 3.1 2.8 3.1 2.8 3.1 2.8 3.1 2.8 3.1 2.8 3.1 2.8 3.1 2.8 3.1 2.8 3.1 2.8 3.1 2.8 3.1 2.8 3.1 2.8 3.1 2.8 3.1 2.8 3.1 2.8 3.1 2.8 3.1 2.8 3.1 2.8 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1

393040105340400 DEER CREEK NEAR BAILEY, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		P	AUGUST		S	SEPTEMBE	R
1 2 3 4 5	6.6 6.5 6.4 7.3 5.9	2.3 2.1 2.3 3.0 2.9	3.9 3.9 4.1 4.7 4.1	7.8 8.0 7.9 6.9	3.5 2.8 3.0 4.1 3.7	5.3 5.1 5.3 5.5	8.9 8.6 9.4 8.1	6.3 6.7 5.8 6.3 6.6	7.5 7.6 7.5 7.1 7.3	7.7 9.5 8.7 8.6 8.6	5.9 6.1 6.6 6.6 5.3	6.9 7.8 7.7 7.6 7.0
6 7 8 9 10	5.3 5.3 4.0 4.0 5.5	3.0 2.7 2.7 2.2 2.7	3.8 3.7 3.4 3.1 3.8	7.4 7.9 6.4 7.0 6.9	3.9 3.6 4.3 3.8 4.3	5.4 5.5 5.3 5.3	7.2 7.0 8.9 7.5 8.1	5.4 4.3 4.6 5.7 6.1	6.3 5.8 6.7 6.6	8.1 7.9 7.4 7.6 7.7	5.8 4.4 4.4 5.3 4.7	7.0 6.2 6.1 6.5 6.3
11 12 13 14 15	6.7 5.4 5.4 5.8 5.8	2.7 2.7 3.2 3.3 2.6	4.2 3.9 4.2 4.5 4.0	6.3 8.2 8.2 8.8 9.0	4.6 4.0 4.2 4.1 4.4	5.5 5.8 5.9 6.3 6.6	7.2 7.1 7.8 8.0 8.7	4.7 3.8 4.1 4.8 4.9	6.0 5.6 5.9 6.2	7.6 7.8 7.5 8.1	5.6 5.6 4.3 5.3	6.6 6.5 6.6 6.5
16 17 18 19 20	5.2 5.8 7.8 8.1 7.8	2.8 3.1 3.2 4.1 3.8	3.8 4.4 5.1 5.7 5.5	7.7 7.3 7.1 7.5 7.3	4.7 5.0 4.8 5.1 5.2	6.2 6.1 6.0 6.2 6.2	8.6 8.1 8.4 8.1 7.8	5.1 5.1 5.9 5.0 4.9	6.9 6.8 7.0 6.6 6.5	7.4 7.1 7.7 7.8 6.4	5.2 4.1 5.2 5.3 4.7	6.2 5.5 6.4 6.4 5.6
21 22 23 24 25	7.3 8.4 7.0 6.1 6.9	3.7 4.4 4.1 3.8 3.7	5.4 5.9 5.4 5.0	7.8 7.2 7.7 8.8 8.8	4.8 5.5 5.4 5.6 5.6	6.3 6.5 6.7 7.1 7.3	7.5 8.0 8.2 8.0 7.9	5.7 5.2 5.4 5.6 5.7	6.5 6.6 6.9 6.8	6.6 5.8 4.6 6.0	5.1 4.6 3.6 2.8 2.9	5.8 5.2 4.1 4.4 4.6
26 27 28 29 30 31	7.2 6.3 6.8 7.2 8.2	3.9 3.9 3.7 3.5 3.4	5.4 5.1 5.2 5.3 5.6	7.9 7.7 7.1 8.4 9.4 8.0	5.9 6.4 5.9 6.2 6.6	7.0 7.0 6.4 7.2 7.9 7.3	8.4 8.3 8.9 9.1 7.2 7.6	6.2 5.6 6.0 5.7 5.5	7.2 7.1 7.5 7.4 6.6 6.6	7.0 6.9 5.9 5.8 5.9	4.6 4.6 3.1 2.6 2.9	5.8 5.7 4.6 4.2 4.5
MONTH	8.4	2.1	4.6	9.4	2.8	6.2	9.4	3.8	6.8	9.5	2.6	6.0

TOTAL

0.26

393040105340400 DEER CREEK NEAR BAILEY, CO--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--July 1996 to September 1997 (discontinued), seasonal records only.

GAGE.--Tipping-bucket rain gage (no wind shields used) with satellite telemetry. Elevation of gage is 9,280 ft above sea level, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 1.57 inches, June 6, 1997.

EXTREMES FOR CURRENT YEAR .-- Maximum daily rainfall during period of seasonal operation, 1.57 inches, June 6.

			F	PRECIPITAT	ION (INCHE		YEAR OCTO SUM VALU		O SEPTEMB	ER 1997		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	.00						.00	.01	.00	.00	.18	.28
3	.00						.57	.00	.00	.00	.18	.16
4 5	.00						.05	.00	.07	.00	.80 .07	.02
6 7	.00						.00	.00	1.57	.00	.12	.10
8	.00						.06 .01	.00	.36 .66	.18 .05	.05	.00
9	.00						.04	.00	.43	.06	.44	.22
10	.00						.00	.00	.02	.01	.15	.01
11 12	.00						.00	.12	.24	.04	.08	.11
13	.00						.06	.00	.06	.00	.03	.00
14	.00						.02	.02	.03	.00	.00	.00
15	.00						.16	.03	.04	.00	.00	.00
16	.16						.00	.00	.33	.00	.00	.00
17	.00						.00	.00	.01	.00	. 27	.00
18 19	.00						.00	.00	.00	.02	.08	.00 .25
20	.00						.13	.01	.00	.16	.06	.15
21	.00						.16	.32	.41	.00	.00	. 05
22	.02						.00	.42	.01	.00	.04	.09
23	.00						.02	.35	.08	.02	.00	.41
24	.00						.00	.03	.02	.01	.08	.01
25	.00						.00	.00	.09	.00	.11	.00
26	.01						.00	.00	.01	.22	.05	.00
27 28	.07						.21 .50	.00 .01	.00 .01	.22	.09 .46	.00
28 29	.00						.29	.01	.01	.33	.00	.00
30	.00						.05	.01	.00	.03	.03	.00
31	.00							.00		.31	.81	

2.33

1.51

1.74

4.46

4.21

2.05

0.66

3.11

1.63

2.83

1.25

392133105184401 BUFFALO CREEK AT MORRISON CREEK RAIN GAGE, CO PRECIPITATION RECORDS

 $LOCATION.--Lat\ 39^{o}21'33",\ long\ 105^{o}18'44",\ in\ SW^{1/4}SW^{1/4}\ sec.11,\ T.8\ S.,\ R.71\ W.,\ Jefferson\ County,\ Hydrologic\ Unit\ 10190002,\ on\ left\ bank\ of\ Buffalo\ Creek\ near\ confluence\ with\ Morrison\ Creek,\ and\ 3.0\ mi\ southwest\ of\ the\ community\ of\ Buffalo\ Creek.$

PERIOD OF RECORD.--April to September 1997 (seasonal records only).

GAGE.--Tipping-bucket rain gage (wind shields used) with satellite telemetry. Elevation of gage is 7,120 ft above sea level, from topographic map.

REMARKS.--Records good.

TOTAL

EXTREMES FOR CURRENT YEAR .-- Maximum daily rainfall during period of seasonal operation, 1.67 inches, June 6.

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY SUM VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JIII. JUL AUG SEP .05 .00 .00 .48 .28 .13 2 ___ ___ ___ ___ ___ ___ ___ .00 .00 .13 .05 ------___ ------___ ---.00 .00 .00 .13 .00 .00 .00 5 ___ ___ ___ ___ ___ ___ ___ .00 .00 .00 .00 .00 6 7 .00 1.67 .00 .00 .00 ___ ___ ___ ___ ___ ___ ---.00 .26 .00 .00 .00 ------------------___ .00 8 .00 .00 .13 .00 10 ___ ___ ___ ___ ___ ___ .00 .00 .09 .00 .00 .00 ------11 .00 .09 .00 .01 .00 .00 ___ ___ ___ ___ .04 12 .07 .03 .00 .25 .00 13 ------------.04 .00 .01 ------.00 .00 ------------.00 .00 ___ ___ 15 .00 .11 .00 .00 .00 .00 ------16 .00 .00 .02 .00 .01 .00 ---------17 ---.00 .00 .00 .00 .31 .00 18 ------.00 .00 .16 .00 .05 .00 .15 19 .00 .00 .00 .02 .05 ------------___ 20 ---.00 .00 .03 .10 .01 21 22 ___ ___ .02 .29 .45 .00 .01 .02 ------------------.00 23 .08 .05 .08 .00 .00 .01 .00 .00 24 25 ___ ___ ___ ___ ___ ___ .01 .00 .00 .10 .00 .00 .00 .01 26 27 .02 ___ ___ .19 .00 .29 .00 ---.05 .00 .00 .02 .00 ------------------.00 .00 .00 .24 .01 .00 29 ___ ___ ___ ___ ___ ___ 0.0 .01 .00 .30 .07 .00 30 .00 .00 .00 .00 .00 .00 ------------------.00 .52 .04

LOCATION.--Lat 39°23'27", long 105°16'15", in SE¹/4SW¹/4 sec.31, T.7 S., R.70 W., Jefferson County, Hydrologic Unit 10190002, on left bank 0.2 mi downstream from bridge on State Highway 67, 0.5 mi upstream from mouth, and in the community of Buffalo Creek.

PERIOD OF RECORD.--June to September 1997 (seasonal records only).

GAGE.--Tipping-bucket rain gage (no wind shields used) with satellite telemetry. Elevation of gage is 6,630 ft above sea level, from topographic map.

REMARKS .-- Records good.

EXTREMES FOR CURRENT YEAR .-- Maximum daily rainfall during period of seasonal operation, 1.16 inches, Aug. 9.

			PRE	CIPITATION	N (INCHES),	WATER YE DAILY SU	AR OCTOBE M VALUES	ER 1996 TO S	SEPTEMBER	R 1997		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										.00	.04	.31
2										.00	. 25	.09
3										.00	.00	.00
4										.00	.32	.17
5										.00	.73	.00
6										.00	.27	.10
7										.00	.01	.00
8										.00	.00	.00
9										.00	1.16	.00
10										.00	.02	.00
11										.02	.00	.00
12										.00	.39	.00
13										.00	.00	.00
14										.00	.00	.00
15										.00	.00	.00
16										.00	.04	.00
17										.00	.34	.00
18										.00	.05	.00
19										.00	.04	.04
20										.00	.01	.12
21										.00	.00	.03
22									.00	.00	.00	.23
23									.08	.10	.00	.07
24									.00	.00	.01	.00
25									.00	.29	.19	.00
26									.00	.00	.19	.00
27									.00	.31	.15	.00
28									.00	.88	.05	.00
29									.00	.35	.05	.00
30									.00	.06	.00	.00
31										1.06	.48	
TOTAL										3.07	4.79	1.16

06709000 PLUM CREEK NEAR SEDALIA, CO

LOCATION.--Lat 39°26'18", long 104°58'57", in NE¹/4SE¹/4 sec.15, T.7 S., R.68 W., Douglas County, Hydrologic Unit 10190002, on right bank, on south side of County Road No. 20 bridge over Plum Creek, 1.0 mi west of Sedalia, and 1.4 mi downstream from the confluence of East and West Plum Creeks.

DRAINAGE AREA.--274 mi².

PERIOD OF RECORD .-- June 1942 to September 1947. August 1990 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,720 ft above sea level, from topographic map. Aug. 1942 to Sept. 1947, water-stage recorder at site 150 ft upstream at different datum. Prior to Aug. 1942, nonrecording gage at bridge.

REMARKS.--Records poor. Diversions upstream from station for irrigation. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

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COOPERATION.--U.S. Army Corps of Engineers.

			DISCI	HARGE, CUBIC	FEET PER		WATER YEAR MEAN VALU		1996 TO S	SEPTEMBER 19	997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	4.0 3.9 2.5 1.9	13 10 9.0 7.2 7.3	8.0 7.1 8.7 11 10	2.8 e2.9 3.0 2.6 2.6	4.1 4.2 3.7 2.7 3.4	7.3 9.0 9.6 9.0 8.1	4.9 7.7 8.0 16 32	55 55 53 50 52	8.3 6.9 6.0 4.9 4.1	5.2 4.2 4.1 3.9 3.7	8.3 10 8.9 8.2 34	16 15 12 15 23
6 7 8 9 10	1.2 1.1 1.1 .99 2.5	7.5 7.5 7.7 7.0 6.8	7.3 7.2 6.8 6.9 6.6	2.4 3.4 6.6 4.7 4.8	4.1 6.5 6.4 5.5 3.4	9.6 10 10 9.3 8.5	31 40 37 31 34	56 57 55 50 44	5.5 51 56 57 61	3.6 3.4 3.2 3.4 3.5	50 43 38 34 35	21 17 14 12
11 12 13 14 15	8.6 1.6 1.0 .99 1.1	4.3 4.3 5.5 5.8 e6.3	5.3 5.5 5.9 5.9	e4.4 e2.3 e.90 e1.4 e5.0	4.5 4.5 4.1 3.6 5.3	7.3 7.2 7.8 7.4 8.7	32 31 31 25 16	41 43 40 39 38	54 54 53 54 53	3.6 3.8 3.9 4.0 4.2	49 39 35 30 28	9.9 11 9.1 8.6 7.2
16 17 18 19 20	1.2 1.2 1.4 1.7	e7.0 e7.9 e7.9 8.9 8.6	5.1 e3.4 e2.1 e1.9 e1.9	e5.6 e5.4 e3.9 e5.1 e6.9	5.3 5.7 5.5 6.5 8.9	8.8 8.8 8.4 7.8 6.2	12 14 16 19 18	39 40 39 38 32	48 44 43 40 36	4.3 4.4 4.6 7.7 6.1	27 26 53 32 31	6.1 5.5 4.9 5.1 7.6
21 22 23 24 25	2.6 3.0 2.7 2.8 3.2	7.4 6.2 e6.5 e5.9 7.2	e2.0 e2.1 e2.1 e2.0 e2.1	e5.0 e3.5 e2.8 e3.8 e4.2	8.4 6.9 8.5 7.2 6.9	7.0 6.0 6.0 7.6 9.3	15 13 13 33 44	25 46 47 41 39	31 25 21 24 23	5.0 5.1 5.5 5.6 5.8	30 25 20 21 20	8.2 9.6 17 17
26 27 28 29 30 31	8.3 9.4 11 13 14	e7.1 e7.9 7.6 7.9 7.8	e2.4 e3.5 e5.8 4.8 4.4 3.6	e3.9 5.6 e6.6 e7.0 e4.5 e3.2	8.7 8.3 7.2 	9.4 6.7 5.0 7.6 7.3 6.1	44 41 43 45 49	39 31 17 12 12	18 14 12 8.6 6.8	5.9 6.0 7.8 6.5 16	26 24 23 17 16 18	12 11 9.4 8.3 7.1
TOTAL MEAN MAX MIN AC-FT	124.88 4.03 14 .99 248	221.0 7.37 13 4.3 438	156.9 5.06 11 1.9 311	126.80 4.09 7.0 .90 252	160.0 5.71 8.9 2.7 317	246.8 7.96 10 5.0 490	795.6 26.5 49 4.9 1580	1235 39.8 57 10 2450	923.1 30.8 61 4.1 1830	164.0 5.29 16 3.2 325	859.4 27.7 53 8.2 1700	343.6 11.5 23 4.9 682
MEAN MAX (WY) MIN (WY)	8.18 31.8 1943 1.32 1945	14.2 30.6 1943 3.34 1945	11.9 29.1 1943 5.00 1944	11.4 23.0 1943 4.09 1997	16.2 27.8 1944 5.71 1997	- 1997, 17.8 37.5 1992 6.62 1995	46.7 112 1992 15.7 1943	95.2 332 1944 5.06 1946	38.5 134 1947 2.70 1946	15.3 71.2 1947 1.59 1996	18.7 147 1945 .020 1996	5.41 13.6 1947 .000 1943
SUMMAR	Y STATIST	ICS	FOR	1996 CALENI	DAR YEAR	F	OR 1997 WA	TER YEAR		WATER YE	ARS 1942	- 1997
LOWEST		EAN		3647.67 9.97	May 26		5357.08 14.7 61	Jun 10		25.1 58.3 10.6 915	Aug	1947 1946 8 1945
	DAILY ME SEVEN-DA	AN Y MINIMUM		a.00 .00	Aug 14		e.90 1.2	Jan 13 Oct 13		b.00) Jul	11 1943 29 1943
	TANEOUS P	EAK FLOW EAK STAGE					261	Aug 18		c,d ₇₇₀₀	Aug	8 1945
ANNUAL 10 PER 50 PER	TANEOUS P RUNOFF (CENT EXCE CENT EXCE CENT EXCE	AC-FT) EDS EDS		7240 25 7.9 .15			3.92 10630 41 7.8 2.8	Aug 18		18160 49 11 1.3	? Aug	8 1945

e-Estimated.

a-Also occurred Aug 15-Sep 2.

a-His occurred ways, also during most years. b-No flow many days, also during most years. c-Site and datum then in use, from rating curve extended above 350 ft³/s on basis of slope-area determination of peak flow. d-Highest flood of actual record probably occurred Jun 16, 1965. Discharge computed at Plum Creek near Louviers was 154,000 cfs. f-Maximum gage height, 7.07 ft, Jan 15, 1993, backwater from ice.

06709530 PLUM CREEK AT TITAN ROAD NEAR LOUVIERS, CO

LOCATION.--Lat 39°30'27", long 105°01'26", on line between sec.20 and sec.29, T.6 S., R.68 W., Douglas County, Hydrologic Unit 10190002, on left bank, on downstream side of bridge on Titan Road, 2.4 mi north of Louviers.

DRAINAGE AREA.--315 mi².

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

REVISED RECORDS.--WDR CO-86-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,520 ft above sea level, from topographic map. Prior to July 10, 1996, at same site, but different datum.

REMARKS.--Records poor. Diversions upstream from station for irrigation. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

			DISCHA	RGE, CUBIC FI			TER YEAR OC EAN VALUES	TOBER 1	996 TO SEPT	EMBER 199	7	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00	.00 .00 .00 .00	6.1 4.2 1.6 7.7 e9.0	5.0 4.5 5.8 5.6 5.1	6.7 8.8 5.5 3.9 7.9	12 14 9.5 10 8.5	9.8 11 9.5 28 28	e36 e35 e50 e54 e80	25 16 21 20 15	1.4 .76 .08 .00	.14 .46 .08 .00 9.2	16 17 12 9.5 20
6 7 8 9 10	.00 .00 .00 .00	.64 1.3 .97 1.2 2.2	e8.5 7.3 8.9 10 4.8	4.3 2.2 6.2 6.2 3.1	13 5.8 4.8 1.6 2.0	14 11 9.0 11 14	22 16 44 31 21	e47 e56 e56 e66 e70	26 65 55 60 67	.02 .05 .03 .02	42 35 42 33 25	26 18 8.8 7.4 6.6
11 12 13 14 15	.00 .00 .00 .00	1.6 1.5 2.1 2.5 3.4	4.3 5.8 5.8 5.8 4.2	1.7 .45 .25 1.1 5.8	1.9 5.0 3.8 1.9 5.2	16 13 23 23 27	14 12 28 28 19	e56 e47 41 34 39	56 62 54 58 62	.00 .00 .00 .00	42 34 27 26 27	5.7 5.2 3.6 3.5 3.0
16 17 18 19 20	.00 .00 .00 .00	4.9 3.2 6.4 5.4 4.3	4.9 .40 1.8 .23 e2.4	6.1 4.8 12 14 7.9	6.2 3.8 5.8 9.9	34 17 8.1 5.9 5.9	12 21 14 33 36	33 39 27 55 48	47 49 50 36 27	.00 .00 .00 .00	17 34 51 13 9.9	1.7 1.4 .21 .30 3.8
21 22 23 24 25	.00 .00 .00 .00	5.9 7.7 5.5 9.8	e2.5 e2.5 e2.4 1.2	5.6 3.2 4.5 3.6 5.8	10 6.8 8.5 9.3 8.2	11 14 13 13	23 21 20 28 77	47 65 64 58 48	45 34 32 31 23	.00 .00 .00 .00	14 22 20 18 15	4.7 7.5 13 9.1 7.9
26 27 28 29 30 31	.00 .00 .00 .00	8.9 10 8.4 9.6 10	2.3 6.0 4.8 4.1 5.5	4.7 5.6 12 10 4.9 3.3	9.4 9.3 9.0 	35 26 18 22 28 13	e38 e43 e56 e42 e52	54 45 42 32 31 32	16 11 7.2 7.3 3.7	.00 13 .00 .00 .35	15 17 17 7.8 7.6	7.7 6.9 6.0 5.7 4.8
TOTAL MEAN MAX MIN AC-FT	0.00 .000 .00 .00	128.41 4.28 11 .00 255	142.63 4.60 10 .23 283	165.30 5.33 14 .25 328	184.0 6.57 13 1.6 365	495.9 16.0 35 5.9 984	837.3 27.9 77 9.5 1660	1487 48.0 80 27 2950	1081.2 36.0 67 3.7 2140	16.69 .54 13 .00	638.18 20.6 51 .00 1270	243.01 8.10 26 .21 482
							BY WATER Y	•				
MEAN MAX (WY) MIN (WY)	12.0 71.8 1985 .000 1995	16.4 75.9 1985 2.15 1995	13.2 44.3 1985 4.40 1996	12.6 29.7 1985 4.86 1991	15.9 42.7 1988 5.14 1990	26.8 62.1 1988 6.55 1995	60.3 126 1987 18.9 1996	152 779 1984 10.4 1989	48.3 135 1984 5.89 1990	15.7 66.5 1995 .002 1993	12.6 63.4 1984 .000 1993	5.95 31.1 1984 .000 1990
SUMMARY	STATIST	rics	FOR	1996 CALENI	DAR YEAR	F	OR 1997 WAT	ER YEAR	2	WATER Y	EARS 1984	1997
ANNUAL ANNUAL MIGHEST LOWEST A	MEAN ANNUAL			2395.64 6.55			5419.62 14.8			27.5 68.3 7.8	3	1987 1996
INSTANTA INSTANTA	DAILY ME SEVEN-DA ANEOUS E ANEOUS E	EAN AY MINIMUM PEAK FLOW PEAK STAGE		.00	May 25 Jul 3 Jul 3		e ₈₀ a.00 .00 465 5.20	May 5 Oct 1 Oct 1 Jul 27 Jul 27	L L 7	1770 b.0 .0 c 2850 10.6	00 Jul 00 Jul Jun	15 1984 2 1989 2 1989 28 1995 28 1995
ANNUAL I 10 PERCI 50 PERCI 90 PERCI	ENT EXCE	EEDS EEDS		4750 18 5.5 .00			10750 44 7.8 .00			19930 66 13	00	

e-Estimated. a-No flow many days. b-No flow many days, most years. c-From rating curve extended above 450 ft³/s.

06709600 CHATFIELD LAKE NEAR LITTLETON, CO

LOCATION.--Lat 39°33'26", long 105°03'27", in NW¹/4SE¹/4 sec.1, T.6 S., R.69 W., Jefferson County, Hydrologic Unit 10190002, near left end of dam on South Platte River at mouth of Plum Creek and 4.7 mi southwest of courthouse in Littleton.

DRAINAGE AREA.--3,018 mi².

PERIOD OF RECORD.--Contents, May 1975 to current year. Water-quality data available, October 1976 to September 1981.

GAGE.--Water-stage recorder. Datum of gage is 5,500.00 ft above sea level, (levels by U.S. Army, Corps of Engineers); gage readings have been reduced to elevations above sea level.

REMARKS.--Reservoir is formed by earthfill dam. Storage began May 29, 1975. Capacity, 235,000 acre-ft at elevation 5,500 ft, crest of spillway. No dead storage. Figures given represent total contents. Reservoir is for flood control and recreation.

COOPERATION.--Records provided by U.S. Army, Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 54,690 acre-ft, May 26, 1980, elevation, 5,447.58 ft; minimum since first filling in June 1979; 16,650 acre-ft, Dec. 18, 1995, elevation 5,423.63 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 27,860 acre-ft, July 30, elevation, 5,432.56 ft; minimum, 20,500 acre-ft, June 6, elevation, 5,427.02 ft.

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

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30. Oct. 31. Nov. 30. Dec. 31.	5,428.56 5,429.34 5,428.60 5,429.70	22,410 23,420 22,460 23,890	- +1,010 -960 +1,430
CAL YR 1996	-	=	+6,110
Jan. 31. Feb. 28. Mar. 31. Apr. 30. May 31. June 30. July 31. Aug. 31. Sept. 30.	5,431.54 5,431.97 5,432.05 5,432.05 5,427.93 5,432.02 5,432.51 5,432.07 5,432.00	26,400 27,000 27,120 27,120 21,610 27,080 27,780 27,150 27,040	+2,510 +600 +120 0 -5,510 +5,470 +700 -630 -110
WTR YR 1997	_	-	+4,630

06710247 SOUTH PLATTE RIVER BELOW UNION AVENUE, AT ENGLEWOOD, CO

LOCATION.--Lat 39°37'57", long 105°00'52", in SW¹/4NW¹/4 sec.9, T.5 S., R.68 W., Arapahoe County, Hydrologic Unit 10190002, on right bank 100 ft downstream from Englewood Water Treatment Plant, 200 ft downstream from Union Avenue bridge in Englewood, and 7.7 mi downstream from Chatfield Dam.

DRAINAGE AREA.--3,043 mi².

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

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 5,290 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Chatfield Reservoir (station 06709600) 7.7 mi upstream. Diversions for municipal use by City of Englewood 100 ft upstream from gage. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

			DISCHAF	RGE, CUBIC	FEET PER SE		TER YEAR (EAN VALUE		996 TO SEP	ΓEMBER 1997		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	29 31 21 28 28	20 22 14 21 15	45 42 39 37 42	9.6 14 10 16 11	8.8 11 14 13 14	71 67 69 66 62	48 63 54 139 143	168 170 148 149 134	293 361 410 423 367	528 448 428 340 321	579 642 493 536 568	98 111 143 104 104
6 7 8 9 10	27 33 26 30 25	14 14 11 14 17	38 42 37 42 56	15 16 16 21 11	7.1 11 10 13 21	56 36 36 31 35	66 68 88 91 92	91 68 110 171 128	379 331 92 80 296	283 295 344 324 274	659 714 686 650 633	110 207 181 94 81
11 12 13 14 15	16 20 22 27 32	12 13 13 11 27	18 17 19 19	6.8 8.6 9.5 15	42 47 59 61 63	41 44 48 46 49	87 59 56 51 30	130 142 165 185 185	538 537 599 635 824	227 196 106 116 142	699 684 675 569 423	45 53 128 57 48
16 17 18 19 20	27 29 26 31 37	103 101 105 110 147	18 17 12 14 11	10 10 14 14	62 61 66 59 55	47 47 45 46 43	34 34 33 33 24	172 168 172 211 291	774 820 786 734 694	177 185 152 187 305	401 225 113 104 142	52 36 41 42 47
21 22 23 24 25	35 30 33 29 27	150 141 120 115 109	15 17 17 12 14	12 11 13 9.6 9.1	78 77 74 78 70	41 42 43 54 55	27 34 34 229 204	235 211 291 378 380	599 514 522 529 546	381 425 472 380 335	91 158 144 67 55	46 40 69 44 44
26 27 28 29 30 31	77 38 35 31 36 30	74 67 45 43 43	17 12 9.4 12 14 12	11 14 11 13 13	74 74 68 	42 42 44 43 43	191 167 160 177 179	350 283 175 164 164 235	570 550 574 580 529	229 356 427 307 227 693	30 34 55 163 163 155	98 77 76 72 66
TOTAL MEAN MAX MIN AC-FT	946 30.5 77 16 1880	1711 57.0 150 11 3390	728.4 23.5 56 9.4 1440	395.2 12.7 21 6.8 784	1290.9 46.1 78 7.1 2560	1480 47.7 71 31 2940	2695 89.8 229 24 5350	6024 194 380 68 11950	15486 516 824 80 30720	9610 310 693 106 19060	11310 365 714 30 22430	2414 80.5 207 36 4790
					YEARS 1996			•				
MEAN MAX (WY) MIN (WY)	30.5 30.5 1997 30.5 1997	57.0 57.0 1997 57.0 1997	23.5 23.5 1997 23.5 1997	12.7 12.7 1997 12.7 1997	46.1 46.1 1997 46.1 1997	37.4 47.7 1997 27.1 1996	96.8 104 1996 89.8 1997	176 194 1997 158 1996	361 516 1997 205 1996	261 310 1997 213 1996	236 365 1997 107 1996	80.6 80.8 1996 80.5 1997
SUMMARY	STATISTI	CS			FOR 19	97 WATER	YEAR			WATER YE	EARS 1996	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN AN N MINIMUM AK FLOW AK STAGE C-FT) DS DS			139 10730 48	18 24 Ji 6.8 Ji 11 Ji 90 Ji 13.64 Ji	un 15 an 11 an 11 ul 31 ul 31			148 148 148 824 3.3 8.7 1390 13.64 107400 343 74	Apr 2 Mar Jul 3	1997 1997 15 1997 24 1996 5 1996 31 1997 31 1997

06710385 BEAR CREEK ABOVE EVERGREEN, CO

LOCATION.--Lat 39°37'58", long 105°19'59", in SE¹/4NE¹/4 sec.9, T.5 S., R.71 W., Jefferson County, Hydrologic Unit 10190002, on right bank 0.6 mi upstream from Evergreen Lake dam at Evergreen.

DRAINAGE AREA.--104 mi².

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

GAGE.--Water-stage recorder. Elevation of gage 7,076 ft above sea level, from topographic map. Prior to May 1, 1986, at site 200 ft downstream at present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by small diversions for irrigation. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

			DISCH	IARGE, CUB	IC FEET PER S		VATER YEAR MEAN VALUI		1996 TO SE	EPTEMBER 199	97	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	31 28 27 26 25	21 17 20 22 17	e14 e14 e13 e13 e13	e12 e12 e12 e12 e11	e11 e11 e11 e11	e11 e11 e11 e11	e18 e18 e19 e19	74 69 67 68 78	102 108 99 94 105	91 85 81 78 77	69 63 72 74 91	62 66 72 75 80
6 7 8 9 10	24 23 22 21 21	19 15 29 23 19	e13 e13 e13 e13 e12	e11 e11 e11 e11 e10	e10 e9.6 e9.6 e9.6 e9.6	e11 e11 e11 e11	e19 e19 e19 e19 e17	88 97 93 87 89	132 295 275 291 286	74 71 71 69 66	113 112 104 95 123	65 62 61 61 64
11 12 13 14 15	20 20 20 20 19	17 18 18 17 17	e12 e12 e12 e12 e12	e9.0 e8.0 e9.0 e10 e11	e9.6 e9.6 e9.6 e10	e12 e12 e12 e12 e13	e16 e15 e15 e17 e20	91 84 81 83 84	263 242 274 261 226	65 64 60 57 54	125 107 99 91 85	e63 e60 e58 e56 e53
16 17 18 19 20	19 19 16 24 22	12 19 32 26 26	e11 e11 e11 e11	e12 e12 e12 e12 e12	e10 e10 e10 e10 e10	e13 e13 e13 e14 e15	28 31 34 36 41	90 97 102 96 93	213 201 182 175 172	51 50 51 52 69	80 80 80 75 71	e50 e57 e52 e50 e54
21 22 23 24 25	17 16 26 20 22	18 19 18 18 e18	e11 e11 e11 e11	e12 e12 e12 e12 e12	e10 e10 e10 e10 e10	e15 e15 e15 e15 e16	49 43 40 40 38	87 125 106 116 103	159 152 144 140 128	57 50 48 47 50	70 67 65 62 63	e50 e45 e43 e41 e40
26 27 28 29 30 31	20 19 22 20 17 20	e16 e15 e14 e14 e14	e12 e12 e12 e12 e12 e12	e12 e11 e11 e11 e11	e10 e10 e11 	e17 e17 e17 e17 e17 e17	42 41 56 66 74	97 89 86 86 88	119 116 112 105 97	49 47 57 61 72 71	63 65 65 59 56 58	e39 e38 e37 e36 e35
TOTAL MEAN MAX MIN AC-FT	666 21.5 31 16 1320	568 18.9 32 12 1130	373 12.0 14 11 740	347.0 11.2 12 8.0 688	283.2 10.1 11 9.6 562	417 13.5 17 11 827	928 30.9 74 15 1840	2785 89.8 125 67 5520	5268 176 295 94 10450	1945 62.7 91 47 3860	2502 80.7 125 56 4960	1625 54.2 80 35 3220
MEAN MAX (WY) MIN (WY)	29.0 85.1 1985 16.0 1995	24.0 56.2 1985 9.65 1993	16.6 32.8 1985 8.67 1995	13.6 18.7 1996 9.00 1995	12.7 18.2 1996 8.68 1994	- 1997, 15.7 26.7 1992 9.57 1995	35.4 89.7 1987 13.9 1991	88.9 230 1987 44.1 1993	107 280 1995 46.7 1994	60.3 134 1995 27.5 1994	47.3 87.3 1991 20.1 1994	33.8 54.2 1997 17.2 1994
SUMMARY	STATISTI	CS	FOR	1996 CALE	NDAR YEAR	F	OR 1997 WAT	TER YEAR		WATER YEA	ARS 1985	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN AN N MINIMUM AK FLOW AK STAGE C-FT) DS DS		10593 28.9 90 e,a ₁₁ 11 21010 57 20 15	Jun 16 Dec 16 Dec 16		17707.2 48.5 295 e8.0 9.6 403 4.37 35120 102 22 11	Jun 7 Jan 12 Feb 7 Jun 7 Jun 7		40.5 63.8 22.5 421 7.8 8.0 573 5.39 29330 85 25 11	Mar Dec Jun I	1995 1993 18 1995 6 1995 9 1994 18 1995 18 1995

e-Estimated. a-Also occurred Dec 17-25, 1996.

06710500 BEAR CREEK AT MORRISON, CO

LOCATION.--Lat 39°39'11", long 105°11'43", in SE¹/4SW¹/4 sec.35, T.4 S., R.70 W., Jefferson County, Hydrologic Unit 10190002, on left bank at Morrison, 180 ft upstream from bridge on State Highway 8, and 0.2 mi upstream from Mount Vernon Creek.

DRAINAGE AREA.--164 mi².

PERIOD OF RECORD.--Streamflow records, September 1887 to September 1891, May 1895 to December 1901, February 1902 (gage heights only), October 1919 to current year. No winter records for water years 1888-90, 1896, 1898, 1900. Monthly discharge only for some periods, published in WSP 1310. Published as "near Morrison" 1900-1902, as "at Starbuck" 1919-28, and as "at Idledale" 1929-34. Water-quality data available, October 1976 to September 1981.

REVISED RECORDS.--WSP 976: 1942. WSP 1310: 1888, 1890-91, 1898, 1935(M). WSP 1730: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,780.43 ft above sea level. See WSP 1710 or 1730 for history of changes prior to Oct. 1, 1934. Oct. 1, 1934 to Oct. 10, 1961, water-stage recorder at site 80 ft downstream at present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Small diversions for irrigation of about 1,000 acres upstream from station.

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

			DISCHA	RGE, CUBIC	FEET PER SE		ATER YEAR IEAN VALUE		996 TO SE	PTEMBER 1997		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	29 27 26 25 25	25 24 20 22 18	28 22 23 20 e18	e15 e15 e15 e15 e15	e12 e12 e12 e12 e12	e11 e11 e11 e11	23 23 23 38 41	168 155 140 128 132	105 117 106 110 131	97 89 84 80 76	77 73 70 82 95	62 74 79 83 94
6 7 8 9 10	24 23 24 23 22	19 17 11 23 20	e18 e18 e18 e17 e17	e15 e15 e14 e14 e14	e12 e12 e12 e12 e12	e11 e11 e12 e13 e14	32 33 37 35 36	142 146 134 125 121	173 291 263 294 341	76 71 67 65 65	124 118 110 105 122	78 72 68 65 61
11 12 13 14 15	22 22 22 22 22	18 19 21 20 20	e17 e17 e17 e17 e17	e14 e14 e14 e14	e12 e12 e12 e12 e12	e15 e16 e18 e20 e21	33 46 37 37 39	119 113 106 106 112	350 296 333 341 264	64 65 59 54 50	149 130 116 103 94	60 60 55 53 50
16 17 18 19 20	23 25 20 25 26	21 15 21 28 26	e17 e17 e16 e16 e16	e14 e14 e14 e13 e13	e12 e12 e12 e12 e12	e23 24 24 24 27	44 50 55 59 65	114 125 127 120 116	249 246 216 210 199	47 46 45 50 66	88 88 91 81 75	49 47 46 47 61
21 22 23 24 25	25 19 24 25 24	22 23 23 21 18	e16 e16 e16 e16 e16	e13 e13 e13 e13	e12 e12 e11 e11 e11	29 27 26 26 22	74 71 68 82 76	108 141 133 137 125	193 183 170 167 153	57 47 44 44 47	73 68 68 62 63	55 54 57 59 51
26 27 28 29 30 31	26 23 24 26 22 24	19 19 20 18 24	e16 e16 e15 e15 e15 e15	e13 e13 e13 e13 e12 e12	ell ell ell 	23 26 24 26 21 21	89 92 136 150 177	116 106 101 99 100 99	142 132 123 114 106	51 45 69 68 81 80	67 70 68 63 58 57	48 47 42 39 39
TOTAL MEAN MAX MIN AC-FT	739 23.8 29 19 1470	615 20.5 28 11 1220	538 17.4 28 15 1070	426 13.7 15 12 845	330 11.8 12 11 655 TEARS 1900	599 19.3 29 11 1190	1801 60.0 177 23 3570	3814 123 168 99 7570	6118 204 350 105 12140	1949 62.9 97 44 3870	2708 87.4 149 57 5370	1755 58.5 94 39 3480
MEAN MAX (WY) MIN (WY)	31.2 115 1985 9.52 1935	23.6 86.7 1924 9.59 1957	17.0 57.0 1924 7.31 1940	13.7 34.0 1924 5.19 1950	14.3 36.0 1924 4.00 1933	20.1 48.3 1960 4.00 1933	52.8 296 1942 13.1 1982	147 525 1973 12.4 1963	139 551 1949 11.5 1954	72.7 249 1949 5.72 1963	63.9 307 1923 6.58 1978	43.9 371 1938 5.41 1978
SUMMARY	STATISTI	CS	FOR 1	1996 CALEN	IDAR YEAR	F	OR 1997 WA	TER YEAR		WATER YEA	RS 1900	- 1997
LOWEST .		AN AN		11123 30.4 122 e,a ₁₀	May 26 Sep 10		21392 58.6 350 b	Jun 11 Nov 8		52.8 125 14.6 1410	_	1942 1954 7 1969
ANNUAL	SEVEN-DAY ANEOUS PE	MINIMUM		12	Sep 5		11 485	Feb 23 Jun 13		3.0 e ₈₆₀₀		1 1933
INSTANT ANNUAL 1 10 PERC 50 PERC	ANEOUS PE RUNOFF (A ENT EXCEE ENT EXCEE ENT EXCEE	AK STAGE C-FT) DS DS		22060 54 23 15			d _{6.06} 42430 131 28 12	Jun 13		38240 120 26 11		

e-Estimated. a-Also occurred Sep 11. b-Also occurred Feb 23 to Mar 7, which are all estimated discharges. c-Result of freezeup. d-Maximum gage height, 6.07 ft, Jun 7.

06710605 BEAR CREEK ABOVE BEAR CREEK LAKE NEAR MORRISON, CO

 $LOCATION.--Lat~39^o39'08", long~105^o10'23", in~NW^1/4NE^1/4~sec.1,~T.5~S.~R.70~W., Jefferson~County,~Hydrologic~Unit~10190002, on~right~bank,~0.9~mi~downstream~from~Strain~Gulch,~1.0~mi~east~of~Morrison,~and~1.1~mi~downstream~from~Mt.~Vernon~Creek.$

DRAINAGE AREA.--176 mi².

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

GAGE.--Water-stage recorder. Elevation of gage 5,645 ft above sea level, from topographic map. Prior to Apr. 21, 1989, at datum 3.37 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions to Harriman Canal, and Ward Canal, 0.7 mi upstream from gage. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

were	ootumee	and are pe				SECOND,		R OCTOBER		EPTEMBER 199		011.
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	13 15 24 23 22	5.1 .29 .23 .14 2.5	12 8.5 8.5 8.4 11	22 24 25 20 6.8	14 12 11 8.7 7.3	17 16 20 18 15	2.1 .87 1.5 20	e86 e84 e80 e92 e120	115 127 120 113 121	87 82 76 68 66	68 61 57 69 83	62 76 83 88 104
6 7 8 9 10	19 18 17 15	4.2 2.5 1.7 2.0 2.1	15 14 13 14 13	13 11 15 18 16	11 9.5 7.1 7.6 7.5	17 19 23 28 28	5.0 9.9 21 10	e140 155 149 137 134	172 437 393 382 352	65 61 56 56 50	131 122 108 92 118	77 70 66 63 62
11 12 13 14 15	12 13 11 11	2.2 2.2 2.2 2.2 2.2	13 12 12 9.6 7.0	e17 e17 e18 e18 e17	6.2 7.6 8.0 8.4	36 42 35 25 25	13 e14 e15 e17 e19	133 126 117 114 114	321 272 307 302 248	49 49 44 39 35	147 133 115 102 92	60 59 54 53 50
16 17 18 19 20	12 14 9.4 12 13	1.9 1.3 2.0 6.4 9.8	8.8 8.1 8.1 8.1	e16 e15 e13 12 12	11 12 13 14 17	24 21 13 14 21	e22 e32 e37 e44 e48	117 125 133 128 124	227 220 210 200 194	33 32 31 31 39	85 84 85 80 74	48 45 42 42 59
21 22 23 24 25	13 11 15 15	8.3 9.1 16 12 9.0	21 18 17 15 16	11 10 10 9.2 9.1	16 13 18 19	23 15 10 11 6.1	e54 e58 e52 e47 e45	116 162 153 159 143	182 174 163 159 146	33 31 30 30 30	72 68 64 61	52 51 58 62 55
26 27 28 29 30 31	14 12 13 14 10	11 6.8 6.4 8.0 11	14 20 22 19 20 20	10 9.1 9.7 11 9.9	19 16 14 	6.4 3.4 3.1 3.4 2.9 2.8	e44 e52 e58 e70 e80	131 120 111 106 108 109	131 122 116 111 98	30 29 54 65 78 78	61 64 63 59 55	50 47 43 e41 e40
TOTAL MEAN MAX MIN AC-FT	438.4 14.1 24 9.4 870	150.76 5.03 16 .14 299	419.1 13.5 22 7.0 831	437.8 14.1 25 6.8 868	339.9 12.1 19 6.2 674	544.1 17.6 42 2.8 1080	928.37 30.9 80 .87 1840	3826 123 162 80 7590	6235 208 437 98 12370	1537 49.6 87 29 3050	2586 83.4 147 52 5130	1762 58.7 104 40 3490
STATIST							, BY WATER					
MEAN MAX (WY) MIN (WY)	13.3 25.8 1996 4.34 1990	14.9 32.1 1987 .38 1990	17.2 30.6 1996 9.50 1995	14.9 27.1 1996 1.69 1995	14.8 23.4 1987 .23 1995	19.1 44.8 1987 1.26 1995	44.1 158 1987 2.83 1989	117 377 1987 6.95 1989	122 512 1995 14.9 1989	45.0 216 1995 5.23 1989	30.3 83.4 1997 2.80 1989	20.4 58.7 1997 4.17 1989
SUMMAR	Y STATIST	rics	FOR	1996 CALEN	IDAR YEAR	1	FOR 1997 W	ATER YEAR		WATER YEA	ARS 1987	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT ANNUAL 10 PERO 50 PERO	MEAN I ANNUAL ANNUAL N I DAILY ME SEVEN-DAILOUS I	MEAN MEAN EAN AY MINIMUM PEAK FLOW PEAK STAGE (AC-FT) EEDS		9838.16 26.9 159 .14 1.7 19510 56 20 6.6	May 26		19204.4 52.6 437 .1' 1.7 568 6.03 38090 129 22 7.2	Jun 7 4 Nov 4 Nov 2 Jun 7		39.5 96.1 10.4 684 .10 .16 841 6.45 28610 79 18 3.5	Feb 2 Feb 2 Jun	1995 1989 18 1995 23 1995 22 1995 9 1995 9 1995

e-Estimated.

06711500 BEAR CREEK AT MOUTH, AT SHERIDAN, CO

LOCATION.--Lat 39°39'08", long 105°01'57", in NW¹/4NW¹/4 sec.5, T.5 S., R.68 W., Arapahoe County, Hydrologic Unit 10190002, on left bank just downstream from bridge on road to Fort Logan Mental Health Center, at Highway Department maintenance building at northwest city limits of Sheridan, 1.3 mi upstream from mouth, and 2.1 mi west of city hall in Englewood.

DRAINAGE AREA.--260 mi².

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

REVISED RECORDS.--WSP 1730: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,295 ft above sea level, from topographic map. See WSP 1710 or 1730 for history of changes prior to Oct. 9, 1953. Oct. 9, 1953 to Aug. 6, 1969, water-stage recorder at present site at datum 1.0 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Bear Creek Lake since July 1979. Storage and diversions upstream from station for irrigation of about 12,000 acres.

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

			DISCHA	RGE, CUBIC	FEET PER SI		VATER YEAR O MEAN VALUES		996 TO SEP	TEMBER 1997	·	6
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	105 103 107 102 114	113 115 116 100 86	e34 e32 31 27 27	22 22 24 25 21	24 24 23 20 19	24 24 25 26 21	8.1 10 8.6 33 56	226 192 162 149 149	111 121 127 114 113	89 78 73 66 62	82 92 80 126 157	67 86 92 100 135
6 7 8 9 10	111 112 109 108 108	87 86 88 90 71	35 36 35 35 33	20 e21 19 e21 e22	21 21 19 18 18	21 22 23 26 27	28 17 19 20 16	158 170 173 162 151	149 516 569 531 477	60 58 56 57 53	183 186 149 129 138	103 86 79 76 71
11 12 13 14 15	108 104 104 104 104	49 49	32 27 24 22 18	e22 e22 e22 e22 e22	19 20 21 18 19	27 38 40 32 28	17 15 16 18 16	145 142 132 123 124	424 375 387 431 353	50 50 47 43 35	210 216 155 130 109	66 63 58 55 52
16 17 18 19 20	103 104 104 99 105	e48 e48 e48 49 53	19 e24 e24 e24 e24	e22 e22 e22 22 25	20 21 e25 e24 e30	28 28 22 19 21	18 20 21 22 26	123 127 135 134 130	321 296 267 245 225	30 27 22 22 28	97 95 108 101 88	49 47 44 46 58
21 22 23 24 25	110 110 106 109 107	55 54 58 55 51	e24 e24 e24 e24 e24	29 23 22 21 19	e31 e23 e24 e24 e22	23 18 19 17	36 48 50 158 127	123 148 172 163 161	203 191 176 167 161	35 29 31 26 26	83 79 73 68 63	60 59 79 72 64
26 27 28 29 30 31	128 113 112 113 111 111	49 43 e41 e38 e36	e24 e24 e23 23 23	21 21 20 21 20 21	25 24 25 	15 12 10 8.1 8.5 8.8	128 112 154 187 235	144 133 125 116 115	142 128 120 116 106	28 39 184 111 81 88	67 80 73 74 67 63	56 52 49 46 43
TOTAL MEAN MAX MIN AC-FT	3348 108 128 99 6640	1931 64.4 116 36 3830	823 26.5 36 18 1630	678 21.9 29 19 1340		684.4 22.1 40 8.1 1360	1639.7 54.7 235 8.1 3250	4517 146 226 110 8960	7662 255 569 106 15200	1684 54.3 184 22 3340	3421 110 216 63 6790	2013 67.1 135 43 3990
STATIST	ICS OF MC	NTHLY MEA	N DATA F	OR WATER Y	EARS 1927	- 1997	, BY WATER Y	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	23.2 151 1985 1.52 1955	23.2 99.8 1985 3.53 1955	21.5 61.3 1985 8.21 1951	19.6 46.3 1970 3.85 1945	19.1 43.5 1942 5.09 1945	22.1 94.4 1960 5.35 1935	51.2 394 1942 3.33 1935	149 859 1973 1.16 1963	105 630 1949 1.67 1966		37.1 255 1984 3.05 1954	24.7 256 1938 1.82 1956
SUMMARY	STATISTI	CS	FOR	1996 CALEN	DAR YEAR	1	FOR 1997 WAT	TER YEAR		WATER YEA	ARS 1927	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		CAN CAN CAN CAN CAK FLOW CAK STAGE CC-FT) CDS		15997.6 43.7 295 6.4 8.0 31730 105 29 14	May 26 Aug 7 Aug 3		29023.1 79.5 569 8.1 8.9 1230 5.49 57570 158 52 20	Jun 8 Mar 29 Mar 28 Jul 28 Jul 28		44.8 157 6.53 4020 .00 .33 8150 10.50 32490 94 16 6.0	May Jul 1 May 2 May	1983 1954 7 1969 3 1954 23 1963 7 1969 7 1969

e-Estimated.

a-Present datum, from floodmarks, from rating curve extended above 3400 ft³/s.

06711545 LITTLE DRY CREEK AT GREENWOOD VILLAGE, CO

 $LOCATION.--Lat~39^o37'02", long~104^o57'08" in SE^{1/4}~NW^{1/4}~sec. 13, T.5~S., R.68~W., Arapahoe~County, Hydrologic~Unit~10190002, on right bank, 0.3~mi~west~of~University~Boulevard, and 0.5~mi~south~of~East~Belleview~Avenue.$

DRAINAGE AREA.--14.4 mi².

PERIOD OF RECORD.--June 1994 to September 1997 (discontinued).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,427 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions upstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

			DISCH	ARGE, CUBI	C FEET PER		WATER YEAI MEAN VALU		1996 TO S	EPTEMBER 1	997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	4.3 3.9 3.9 4.0 3.9	3.9 3.8 4.0 6.0 3.8	4.3 4.1 3.5 3.6 3.9	3.7 3.8 3.7 3.4 3.3	3.4 3.2 3.1 3.0 3.0	7.2 4.1 3.3 3.1 2.9	2.8 10 4.4 21 34	4.5 4.5 4.5 4.5 4.5	4.1 4.0 4.9 3.9 3.8	3.9 4.0 4.9 4.7 4.9	65 9.4 6.9 37 98	19 20 22 12 24
6 7 8 9 10	5.2 7.4 8.2 8.8 e5.0	3.7 3.6 3.9 3.9 3.7	4.0 3.9 3.9 3.9 3.9	3.2 3.3 3.8 e3.6 e3.5	3.2 3.5 3.8 3.4 3.1	2.9 2.9 2.9 2.9 3.0	6.3 4.9 7.8 4.4 5.7	4.0 3.9 3.9 3.8 4.0	24 123 38 13 5.3	4.9 4.7 4.6 4.7 4.7	121 15 8.7 7.4 7.9	6.1 e6.5 6.9 5.0 4.7
11 12 13 14 15	3.7 3.4 3.3 3.6 3.4	3.6 3.6 3.6 3.8 4.8	3.8 3.6 3.8 3.6 3.4	e2.8 e2.2 e2.1 e2.2 e2.4	3.1 3.0 6.1 3.4 3.3	3.2 3.7 3.8 3.2 2.9	5.4 4.3 3.9 3.7 3.7	3.9 3.8 3.8 4.1 5.1	6.1 15 151 21 8.2	4.1 4.1 4.3 4.3 6.5	12 9.8 17 6.7 12	4.6 4.7 4.6 4.7 4.4
16 17 18 19 20	3.5 4.4 3.7 3.6 3.9	7.9 5.8 5.4 4.9 4.2	3.4 3.1 3.2 3.2 3.2	e2.8 e2.5 e3.5 4.7 4.0	3.3 3.4 6.9 10 5.2	3.0 3.2 3.2 3.2 3.4	3.7 3.6 3.5 3.5 3.5	3.9 3.8 9.1 7.1 4.6	6.8 5.7 16 13 5.2	5.7 6.4 4.5 4.6 6.5	44 24 33 15 7.6	5.0 4.5 4.4 5.0 8.8
21 22 23 24 25	5.2 3.6 3.8 3.4 3.6	4.0 4.0 4.1 3.9 3.9	3.9 6.3 5.0 4.2 3.9	3.6 3.4 3.3 3.2 3.3	6.0 4.0 3.7 3.7 3.4	3.4 3.2 2.9 10 6.1	3.6 3.6 3.5 87 39	4.5 39 16 5.2 4.5	4.8 5.8 15 9.8 4.9	5.3 4.8 4.7 9.4 26	6.4 7.2 6.0 5.8 7.0	7.0 5.5 29 8.2 5.6
26 27 28 29 30 31	25 6.9 4.3 4.8 3.9 3.9	3.9 5.1 4.6 4.1 5.3	3.9 3.8 3.7 3.8 3.8	3.2 3.1 3.1 4.1 3.6 3.4	3.7 3.2 3.1 	3.6 3.1 2.9 3.7 2.9 2.8	15 5.7 4.7 4.7 4.5	4.3 4.6 6.0 4.5 4.3 3.7	5.0 4.4 4.3 4.4 4.5	9.7 e138 e139 e30 58 151	14 8.2 12 29 7.1 24	5.2 5.1 4.7 4.8 4.9
TOTAL MEAN MAX MIN AC-FT	159.5 5.15 25 3.3 316	130.8 4.36 7.9 3.6 259	119.4 3.85 6.3 3.1 237	101.8 3.28 4.7 2.1 202	111.2 3.97 10 3.0 221	112.6 3.63 10 2.8 223	311.4 10.4 87 2.8 618	187.6 6.05 39 3.7 372	534.9 17.8 151 3.8 1060	672.9 21.7 151 3.9 1330	684.1 22.1 121 5.8 1360	256.9 8.56 29 4.4 510
MEAN MAX (WY) MIN (WY)	4.67 5.15 1997 3.77 1995	3.72 4.36 1997 3.33 1995	2.87 3.85 1997 2.04 1995	2.73 3.28 1997 2.22 1995	2.87 3.97 1997 2.25 1996	4.12 5.81 1996 2.90 1995	8.96 11.5 1995 5.02 1996	YEAR (WY) 17.1 30.0 1995 6.05 1997	17.3 24.8 1995 9.28 1996	10.5 21.7 1997 2.27 1994	10.0 22.1 1997 4.17 1994	8.52 12.2 1996 2.52 1994
SUMMARY	STATIST	ICS	FOR	1996 CALEN	DAR YEAR	F	OR 1997 WA	ATER YEAR		WATER Y	EARS 1994	- 1997
LOWEST HIGHEST	MEAN CANNUAL : ANNUAL M CDAILY M	EAN EAN		2484.8 6.79 216	May 26		3383.1 9.27 a ₁₅₁	Jun 13		8.3 9.2 6.6 287	7 1 Mav	1997 1996 17 1995
ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	TANEOUS P	Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		1.7 1.9 4930 10 3.8 2.2	Aug 6 Feb 26		e2.1 2.4 630 9.61 6710 15 4.3 3.2	Jan 13 Jan 11 Jul 27 Jul 27		1.4 1.6 630 9.6 6060 12 3.8 2.0	Jul Jul 1 Jul	12 1995 6 1994 27 1997 27 1997

e-Estimated.

a-Also occurred Jul 31. b-Also occurred Feb 13, 1995.

06711565 SOUTH PLATTE RIVER AT ENGLEWOOD, CO

LOCATION.--Lat 39°39'54", long 105°00'13", in NW1/4NE1/4 sec.33, T.4 S., R.68 W., Arapahoe County, Hydrologic Unit 10190002, on right bank, 0.3 mi downstream from Dartmouth Ave bridge at Englewood, and 1.4 mi downstream from Bear Creek.

DRAINAGE AREA.--3,387 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,250 ft above sea level, from topographic map.

REMARKS .-- No estimated daily discharges. Records good. Natural flow of stream affected by transmountain diversions, storage and flood control reservoirs, power developments, diversions for irrigation and municipal use, and return flow from irrigated areas. Flow regulated by Chatfield Dam since May 29, 1975 (station 06709600), and Bear Creek Dam since July 1979.

			DISCH	ARGE, CUB	IC FEET PER S		WATER YEAR MEAN VALU		1996 TO S	EPTEMBER 19	197	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	153	142	96	49	52	109	69	426	437	656	830	239
2	151	145	92	53	57	105	103	402	526	553	850	255
3	150	143	84	52	58	107	81	349	596	537	656	317
4	146	134	76	58	53	103	240	337	598	430	774	280
5	155	116	82	50	51	96	290	321	527	414	958	303
6	155	112	85	52	49	91	130	281	606	375	1050	232
7	159	110	92	64	51	64	110	262	1050	383	1020	325
8	154	111	84	54	48	64	136	304	660	425	936	291
9	156	116	89	61	44	65	137	372	597	406	882	182
10	149	105	106	54	46	70	136	308	768	353	865	168
11	144	82	68	50	69	76	134	304	1020	296	1010	122
12	140	75	58	60	76	90	99	319	972	277	1010	119
13	136	71	60	60	93	97	96	329	1210	183	946	210
14	143	74	56	59	90	88	93	342	1150	185	793	128
15	145	78	45	69	95	86	70	355	1280	212	587	113
16	142	175	54	51	91	82	72	330	1180	239	577	115
17	143	167	58	67	92	84	73	326	1200	258	389	91
18	143	171	66	57	106	75	75	343	1160	210	292	91
19	143	171	51	48	105	75	74	381	1070	243	245	93
20	150	220	47	61	90	73	72	459	989	372	293	121
21	153	228	57	66	122	73	83	398	859	445	213	118
22	151	220	64	54	106	78	104	419	741	470	293	111
23	147	197	59	54	101	70	104	513	756	521	276	197
24	145	192	53	50	106	90	555	587	746	446	168	133
25	144	186	53	44	91	93	430	593	748	446	141	120
26 27 28 29 30 31	258 173 156 154 156 153	143 129 98 95 101	57 54 51 53 53	49 51 49 57 54	100 107 100 	71 66 68 65 64 70	387 326 350 402 448	536 465 335 311 306 376	767 723 741 747 656	312 558 814 612 384 1070	116 185 195 358 320 310	170 148 143 135 126
TOTAL	4747	4107	2057	1711	2249	2508	5479	11689	25080	13085	17538	5196
MEAN	153	137	66.4	55.2	80.3	80.9	183	377	836	422	566	173
MAX	258	228	106	69	122	109	555	593	1280	1070	1050	325
MIN	136	71	45	44	44	64	69	262	437	183	116	91
AC-FT	9420	8150	4080	3390	4460	4970	10870	23190	49750	25950	34790	10310
STATIST	ICS OF MO	NTHLY MEA	N DATA FO	OR WATER	YEARS 1983	- 1997,	BY WATER	YEAR (WY)				
MEAN	160	174	97.4	79.5	86.2	134	374	868	782	576	425	165
MAX	1050	733	268	216	166	261	1074	2576	2479	2337	1574	724
(WY)	1985	1985	1985	1985	1985	1983	1984	1987	1995	1995	1984	1984
MIN	44.8	39.3	48.9	45.4	35.5	51.7	123	209	243	79.0	98.8	43.7
(WY)	1993	1990	1995	1991	1991	1991	1991	1989	1990	1994	1994	1992
SUMMARY	STATISTI	CS	FOR 3	1996 CALE	NDAR YEAR	F	FOR 1997 WA	TER YEAR		WATER YE	ARS 1983	- 1997
LOWEST HIGHEST LOWEST ANNUAL	MEAN ANNUAL ME ANNUAL ME DAILY ME DAILY MEA SEVEN-DAY	AN AN N MINIMUM		56167 153 900 41 47	May 26 Feb 6 Jan 27		95446 261 1280 a ₄₄ 49	Jun 15 Jan 25 Feb 4		298 692 124 4010 b20 24	Sep Sep	1984 1993 28 1995 13 1994 13 1994
INSTANT ANNUAL 10 PERC 50 PERC	ANEOUS PE ANEOUS PE RUNOFF (A ENT EXCEE ENT EXCEE ENT EXCEE	AK STAGE C-FT) DS		111400 311 130 50			2180 4.04 189300 685 143 54	Jul 31 Jul 31		^C 9710 7.21 215900 768 142 49		4 1995 4 1995

a-Also occurred Feb 9. b-Also occurred Sep 18, 1994. c-From rating curve extended above 3800 ${\rm ft}^3/{\rm s}$.

06711565 SOUTH PLATTE RIVER AT ENGLEWOOD, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1985 to current year.

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: March 1985 to current year.

pH: March 1985 to current year.

WATER TEMPERATURE: March 1985 to current year. DISSOLVED OXYGEN: March 1985 to current year.

INSTRUMENTATION.--Water-quality monitor since March 1985.

REMARKS.--Water temperature and specific conductance records are good. pH record is good except for period Apr. 23 to May 12, which is fair, and May 13 to Aug. 19, which is poor. Dissolved oxygen record is poor.

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 1140 microsiemens, Feb. 7 and Apr. 11, 1997; minimum, 213 microsiemens, June 7, 1997. pH: Maximum, 10.4 units, Aug. 27, 1997; minimum, 6.4 units, Oct. 18, 1989.

WATER TEMPERATURE: Maximum, 29.0°C, Aug. 17, 1986, July 30, 1987; minimum, 0.0°C, freezing point on many days during winter months.

DISSOLVED OXYGEN: Maximum, 19.0 mg/L, Feb. 7 and 9, 1995; minimum, 3.4 mg/L, Jul. 31, 1987.

EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum 1140 microsiemens, Feb. 7 and Apr. 11; minimum, 213 microsiemens June 7.

pH: Maximum 10.4 units Aug. 23; minimum, 6.9 units, Aug. 27. WATER TEMPERATURE: Maximum, 25.2°C, July 15; minimum, 0.4°C, on Dec. 3, Feb. 8, and Mar. 5.

DISSOLVED OXYGEN: Maximum 14.6 mg/L, Mar. 7; minimum, 4.5 mg/L, Aug. 25.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	VEMBER		DE	ECEMBER			JANUARY	7
1	528	487	509				767	704	726	813	788	800
2	527	503	514	529	491	513	711	665	686	803	786	793
3	524	479	507	542	483	495	701	649	676	794	758	777
4	519	493	512	554	498	535	732	643	691	782	752	764
5	319		J12 	570	521	551	714	681	698	807	741	777
5				570	521	221	/14	981	098	807	/41	///
6				564	515	538	707	651	675	969	728	821
7	510	491					679	619	646			
8	502	485	493				658	649	653			
9	518	493	506	527	516	521	673	651	662			
10	514	466	487	605	521	572	669	564	609			
10	514	400	48/	605	221	5/2	609	504	609			
11	516	480	492	590	578	585	728	618	666			
12	522	491	504	685	589	644	743	712	729			
13	519	479	500	657	624	639	760	712	741			
14	535	499	519	646	635	639	758	743	748			
15	536	501	520	754	643	663	804	725	778			
15	536	501	520	/54	643	003	804	725	//8			
16	534	511	522	754	602	672	829	781	802			
17	538	519	527	605	547	565						
18	541	508	524	616	551	568						
19	545	524	535	572	498	542						
20	545	523	533	505	461	482						
20	343	323	333	303	401	402						
21	554	530	547	482	462	471						
22	550	503	526	485	455	470						
23	532	509	525	493	475	484						
24	526	504	513	493	478	485						
25	529	494	517	505	478	489						
23	323	17.1	51,	505	1,0	100						
26	640	384	513	556	505	534						
27	509	498	503	758	538	618						
28	548	491	512	705	664	686						
29	552	494	512	705	653	674						
30				927	680	776						
31	547	495	516				808	791	800			
31	J± /	123	210				308	/91	500			
MONTH												

06711565 SOUTH PLATTE RIVER AT ENGLEWOOD, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	:	FEBRUARY			MARCH			APRIL			MAY	
1 2 3		 		1020 974 661	598 617 572	780 750 621	697 760 697	655 626 661	672 688 681			
4 5	836 838	767 730	794 804	630 636	587 566	612 596	828	347	 544			
6 7	965 1140	788 749	838 928	642 707	575 642	593 683	695 751	616 663	669 721			
8 9	1010 968	820 826	917 881	729 702	686 681	706 694	 691	 573	 628			
10	908	782	833	691	670	680	718	578	657			
11 12	857 735	708 685	771 716	702 658	622 597	668 628	1140 924	613 749	779 810			
13 14	798 729	684 631	745 674	637 667	597 614	622 643	766 	722 	746 			
15	668	616	643	652	621	638						
16 17	638 627	598 589	620 610	653 642	621 614	638 631						
18 19	704 766	520 667	603 700	653 698	622 651	638 665						
20	691	592	664	691	592	664						
21	1030	629	778	664	637	653						
22 23	854 840	631 617	705 695	662 676	627 630	641 648						
24 25	693 656	609 578	644 615	 822	 560	 616						
26	789	633	695	608	571	589						
27	737	598	655	699	577	607						
28 29	640	583	618	698 770	654 664	679 713						
30				727	664	700						
31				717	649	678						
MONTH												
		JUNE			JULY		1	AUGUST		\$	SEPTEMBE	R
1	425	399	413	303	284	293	410	265	372	548	375	429
2 3	442 560	399 388 379	409 407	314 315	284 284 274	302 289	410 395 352	265 324 318	359 335	548 559 402	375 400 346	429 450 376
2	442	399 388	409	314	284 284	302	410 395	265 324	359	548 559	375 400	429 450
2 3 4 5	442 560 411	399 388 379 385	409 407 398	314 315 316	284 284 274 286	302 289 296	410 395 352 482	265 324 318 234	359 335 331	548 559 402 478	375 400 346 337	429 450 376 418
2 3 4 5	442 560 411 429 553 354	399 388 379 385 385 326 213	409 407 398 398 399 316	314 315 316 326 329 312	284 284 274 286 295 287 281	302 289 296 305 307 294	410 395 352 482 380 499 370	265 324 318 234 280 296 328	359 335 331 340 347 346	548 559 402 478 448 491	375 400 346 337 337 403 346	429 450 376 418 406 431 387
2 3 4 5 6 7 8 9	442 560 411 429 553 354 351 355	399 388 379 385 385 326 213 279 264	409 407 398 398 399 316 317 303	314 315 316 326 329 312 324 326	284 284 274 286 295 287 281 271 295	302 289 296 305 307 294 300 305	410 395 352 482 380 499 370 357 406	265 324 318 234 280 296 328 308 323	359 335 331 340 347 346 339 352	548 559 402 478 448 491 431 415 463	375 400 346 337 337 403 346 360 404	429 450 376 418 406 431 387 384 435
2 3 4 5 6 7 8 9	442 560 411 429 553 354 351 355 474	399 388 379 385 385 326 213 279 264 279	409 407 398 398 399 316 317 303 325	314 315 316 326 329 312 324 326 340	284 284 274 286 295 287 281 271 295 306	302 289 296 305 307 294 300 305 316	410 395 352 482 380 499 370 357 406 377	265 324 318 234 280 296 328 308 323 327	359 335 331 340 347 346 339 352 353	548 559 402 478 448 491 431 415 463 474	375 400 346 337 337 403 346 360 404 408	429 450 376 418 406 431 387 384 435 440
2 3 4 5 6 7 8 9	442 560 411 429 553 354 351 355	399 388 379 385 385 326 213 279 264	409 407 398 398 399 316 317 303	314 315 316 326 329 312 324 326	284 284 274 286 295 287 281 271 295	302 289 296 305 307 294 300 305	410 395 352 482 380 499 370 357 406 377	265 324 318 234 280 296 328 308 323 327	359 335 331 340 347 346 339 352 353	548 559 402 478 448 491 431 415 463	375 400 346 337 337 403 346 360 404	429 450 376 418 406 431 387 384 435
2 3 4 5 6 7 8 9 10 11 12 13	442 560 411 429 553 354 351 355 474 379 355 650	399 388 379 385 385 326 213 279 264 279	409 407 398 398 399 316 317 303 325 328 323 309	314 315 316 326 329 312 324 326 340 343 381 418	284 284 274 286 295 287 281 271 295 306 319 331 378	302 289 296 305 307 294 300 305 316 330 343 396	410 395 352 482 380 499 370 357 406 377 423 	265 324 318 234 280 296 328 308 323 327 298 313	359 335 331 340 347 346 339 352 353 351 340	548 559 402 478 448 491 431 415 463 474 507 554 526	375 400 346 337 337 403 346 360 404 408	429 450 376 418 406 431 387 384 435 440 469 490 390
2 3 4 5 6 7 8 9 10	442 560 411 429 553 354 351 355 474	399 388 379 385 385 326 213 279 264 279	409 407 398 398 399 316 317 303 325	314 315 316 326 329 312 324 326 340	284 284 274 286 295 287 281 271 295 306 319	302 289 296 305 307 294 300 305 316	410 395 352 482 380 499 370 357 406 377	265 324 318 234 280 296 328 308 323 327	359 335 331 340 347 346 339 352 353	548 559 402 478 448 491 431 415 463 474	375 400 346 337 337 403 346 360 404 408	429 450 376 418 406 431 387 384 435 440
2 3 4 5 6 7 8 9 10 11 12 13 14 15	442 560 411 429 553 354 351 355 474 379 355 650 437 355	399 388 379 385 385 326 213 279 264 279 299 311 215 302 306	409 407 398 398 399 316 317 303 325 328 323 309 331 322	314 315 316 326 329 312 324 326 340 343 381 418 424 577	284 284 274 286 295 287 281 271 295 306 319 331 378 387 361	302 289 296 305 307 294 300 305 316 330 343 396 402 402	410 395 352 482 380 499 370 357 406 377 423 436 371 444	265 324 318 234 280 296 328 308 323 327 298 313 312 318	359 335 331 340 347 346 339 352 353 351 340 336 355	548 559 402 478 448 491 431 415 463 474 507 554 526 468 480	375 400 346 337 337 403 346 360 404 408 424 450 296 353 392	429 450 376 418 406 431 387 384 435 440 469 490 390 413 427
2 3 4 5 6 7 8 9 10 11 12 13 14 15	442 560 411 429 553 354 351 355 474 379 355 650 437 355	399 388 379 385 385 326 213 279 264 279 299 311 215 302 306	409 407 398 398 398 316 317 303 325 328 323 309 331 322	314 315 316 326 329 312 324 326 340 341 418 424 577	284 284 274 286 295 287 281 271 295 306 319 331 378 387 361	302 289 296 305 307 294 300 305 316 330 343 396 402 402	410 395 352 482 380 499 370 357 406 377 423 436 371 444	265 324 318 234 280 296 328 308 323 327 298 313 312 318	359 335 331 340 347 346 339 352 353 351 340 336 355	548 559 402 478 448 491 431 415 463 474 507 554 526 468 480	375 400 346 337 337 403 346 360 404 408 424 450 296 353 392	429 450 376 418 406 431 387 384 435 440 469 490 390 413 427
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	442 560 411 429 553 354 351 355 474 379 355 650 437 355 372 313 429 320	399 388 379 385 385 326 213 279 264 279 311 215 302 306 268 258 256 258	409 407 398 398 398 316 317 303 325 328 323 309 331 322 311 291 296 282	314 315 316 326 329 312 324 326 340 343 381 418 424 577	284 284 274 286 295 287 281 271 295 306 319 331 378 387 361	302 289 296 305 307 294 300 305 316 330 343 396 402 402	410 395 352 482 380 499 370 357 406 377 423 423 436 371 444 639 454 576 601	265 324 318 234 280 296 328 308 323 327 298 313 312 318 267 328 345 409	359 335 331 340 347 346 339 352 353 351 340 336 355 342 359 443	548 559 402 478 448 491 431 415 463 474 507 554 526 468 480 509 516 566 566	375 400 346 337 337 403 346 360 404 408 424 450 296 353 392 394 413 471 489	429 450 376 418 406 431 387 384 435 440 469 490 390 413 427 431 461 536
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	442 560 411 429 553 354 351 355 474 379 355 650 437 355 372 313 429 320 340	399 388 379 385 385 326 213 279 264 279 299 311 215 302 306 268 258 256 258 246	409 407 398 398 398 316 317 303 325 328 323 309 331 322 311 291 296 282 264	314 315 316 326 329 312 324 326 340 343 381 418 424 577	284 284 274 286 295 287 281 271 295 306 319 331 378 387 361	302 289 296 305 307 294 300 305 316 330 343 396 402 402	410 395 352 482 380 499 370 357 406 377 423 436 371 444 639 454 576 601 468	265 324 318 234 280 296 328 308 323 327 298 8 313 312 318 267 328 345 409 358	359 335 331 340 347 346 339 352 353 351 340 336 355 342 359 430 443 395	548 559 402 478 448 491 431 415 463 474 507 554 526 468 480 509 516 566 567 582	375 400 346 337 337 403 346 360 404 408 424 450 296 353 392 394 413 471 489 465	429 450 376 418 406 431 387 384 435 440 469 490 390 413 427 431 461 516 536 524
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	442 560 411 429 553 354 351 355 474 379 355 650 437 355 372 313 429 320 340	399 388 379 385 385 326 213 279 264 279 299 311 215 302 306 258 258 246 255 258	409 407 398 398 398 316 317 303 325 328 323 309 331 222 311 291 296 282 264	314 315 316 326 329 312 324 326 340 343 381 418 424 577	284 284 274 286 295 287 281 271 295 306 319 331 378 387 361	302 289 296 305 307 294 300 305 316 330 343 396 402 402	410 395 352 482 380 499 370 357 406 377 423 436 371 444 639 454 576 601 468	265 324 318 234 280 296 328 308 323 327 298 313 312 318 267 328 345 409 358	359 335 331 340 347 346 339 352 353 351 340 336 355 342 359 430 443 395	548 559 402 478 448 491 431 415 463 474 507 554 468 480 509 516 566 567 582	375 400 346 337 337 403 346 360 404 408 424 450 296 353 392 394 413 489 465 488 459	429 450 376 418 406 431 387 384 435 440 469 490 390 413 427 431 461 516 524 515
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	442 560 411 429 553 354 351 355 474 379 355 650 437 355 372 313 429 320 340	399 388 379 385 385 326 213 279 264 279 311 215 302 306 268 258 256 258 246	409 407 398 398 398 316 317 303 325 328 323 309 331 221 291 296 282 264	314 315 316 326 329 312 324 326 340 343 381 418 424 577 417 390	284 284 274 286 295 287 281 271 295 306 319 331 378 387 361	302 289 296 305 307 294 300 305 316 330 343 396 402 402 396 362	410 395 352 482 380 499 370 357 406 377 423 436 371 444 639 454 576 601 468 463	265 324 318 234 280 296 328 308 323 327 298 	359 335 331 340 347 346 339 352 353 351 340 336 355 342 359 430 443 395	548 559 402 478 448 491 431 415 463 474 507 554 526 468 480 509 516 567 582	375 400 346 337 337 403 346 360 404 408 424 450 296 353 392 394 411 489 465 488	429 450 376 418 406 431 387 384 435 440 469 490 390 413 427 431 461 516 536 524
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	442 560 411 429 553 354 351 355 474 379 355 650 437 355 372 313 429 320 340 287 363	399 388 379 385 385 326 213 279 264 279 299 311 215 302 306 268 258 246 255 246	409 407 398 398 398 316 317 303 325 328 323 309 331 322 311 291 296 282 264 264 274 285	314 315 316 326 329 312 324 326 340 343 381 418 424 577	284 284 274 286 295 287 281 271 295 306 319 331 378 387 361	302 289 296 305 307 294 300 305 316 330 343 396 402 402	410 395 352 482 380 499 370 357 406 377 423 436 371 444 639 454 576 601 468 463 440 355	265 324 318 234 280 296 328 308 323 327 298 313 312 318 267 328 345 409 358 414 438 300	359 335 331 340 347 346 339 352 353 351 340 336 355 342 359 430 443 395 436 374 327	548 559 402 478 448 491 431 415 463 474 507 554 526 468 480 509 516 566 567 582	375 400 346 337 37 403 346 360 404 408 424 450 296 353 392 394 413 471 489 465 488 459 325	429 450 376 418 406 431 387 384 435 440 469 490 390 413 427 431 461 516 536 524 515 549 498
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	442 560 411 429 553 354 351 355 474 379 355 650 437 355 372 313 429 320 340 287 347 363 368 300 311	399 388 379 385 385 326 213 279 264 279 299 311 215 302 306 258 256 258 246 258 242 259 271	409 407 398 398 398 399 316 317 303 325 328 323 309 331 222 311 296 282 264 274 285 277 285	314 315 316 326 329 312 324 326 340 343 381 418 424 577 417 390 404 427	284 284 274 286 295 287 281 271 295 306 319 331 378 387 361 365 336 285	302 289 296 305 307 294 300 305 316 330 343 396 402 402 402 396 362	410 395 352 482 380 499 370 357 406 377 423 436 371 444 639 454 576 601 468 463 440 355 453 574	265 324 318 234 280 296 328 308 323 327 298 3 312 312 318 267 328 345 409 358 414 338 300 334 441	359 335 331 340 347 346 339 352 353 351 340 336 355 342 359 430 443 395 436 374 327 420 472	548 559 402 478 448 491 431 415 463 474 507 554 526 468 480 509 516 567 582 544 583 619 557 600	375 400 346 337 337 403 346 360 404 408 424 450 296 353 392 394 411 489 465 488 455 513 516 461	429 450 376 418 406 431 387 384 435 440 469 490 390 413 427 431 461 536 524 515 549 498 555 542
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	442 560 411 429 553 354 351 355 474 379 355 650 437 355 313 429 320 340 287 347 363 368 300	399 388 379 385 385 326 213 279 264 279 299 311 215 302 306 268 258 246 258 246 258 242 259 271 261 261 261 261 261 261	409 407 398 398 398 316 317 303 325 328 323 309 331 322 311 291 296 282 264 274 285 277 285 281 265 276	314 315 316 326 329 312 324 326 340 343 381 418 424 577 417 390 404	284 284 274 286 295 287 281 271 295 306 319 331 378 387 361 365 336 285 359 233 214	302 289 296 305 307 294 300 305 316 330 343 396 402 402 396 362 349 377 375 361	410 395 352 482 380 499 370 357 406 377 423 436 371 444 639 454 576 601 468 463 440 355 453 574	265 324 318 234 280 296 328 308 323 327 298 8 313 312 318 267 328 345 409 358 414 438 300 334 441	359 335 331 340 347 346 339 352 353 351 340 336 355 430 443 395 430 443 395 436 472 420 472 491 494	548 559 402 478 448 491 431 415 463 474 507 554 526 468 480 509 516 566 567 582 544 583 619 557 600	375 400 346 337 37 403 346 360 404 4 296 353 392 394 413 471 489 465 489 325 513 516 481 489	429 450 376 418 406 431 387 384 435 440 469 490 390 413 427 431 461 516 536 524 515 549 498 529 555 542 509 514
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	442 560 411 429 553 354 351 355 474 379 355 650 437 355 372 313 429 320 340 287 347 363 368 300 311 276 291 315	399 388 379 385 385 326 213 279 264 279 215 302 306 268 258 246 258 246 258 242 259 271 261 258 264 271	409 407 398 398 398 399 316 317 303 325 328 323 309 331 2296 282 264 274 285 277 285 281 265 276 287	314 315 316 326 329 312 324 326 340 343 381 418 424 577 417 390 404 427 472 477 528	284 284 274 286 295 287 281 271 295 306 319 331 378 387 361 365 336 285 359 233 214 273	302 289 296 305 307 294 300 305 316 330 343 396 402 402 396 362 349 377 375 361 422	410 395 352 482 380 499 370 357 406 377 423 436 371 444 639 454 576 601 468 463 355 440 355 574 586 567 561 639	265 324 318 234 280 296 328 308 323 327 298 313 312 318 267 328 345 409 358 414 338 300 334 441 423 423 421 378	359 335 331 340 347 346 339 352 353 351 340 336 355 342 359 430 443 395 436 472 420 472 496 491 494 424	548 559 402 478 448 491 431 415 463 474 507 554 526 468 480 509 516 566 567 582 544 557 600 642 546 559	375 400 346 337 337 403 346 360 404 408 4296 353 392 394 411 489 465 488 455 513 516 461 481 491	429 450 376 418 406 431 387 384 435 440 469 490 413 427 431 4516 536 524 515 549 8529 555 542 509 514 526
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	442 560 411 429 553 354 351 355 474 379 355 650 437 355 313 429 320 340 287 347 363 368 300	399 388 379 385 385 326 213 279 264 279 299 311 215 302 306 268 258 246 258 246 258 242 259 271 261 261 261 261 261 261	409 407 398 398 398 316 317 303 325 328 323 309 331 322 311 291 296 282 264 274 285 277 285 281 265 276	314 315 316 326 329 312 324 326 340 343 381 418 424 577 417 390 404	284 284 274 286 295 287 281 271 295 306 319 331 378 387 361 365 336 285 359 233 214	302 289 296 305 307 294 300 305 316 330 343 396 402 402 396 362 349 377 375 361	410 395 352 482 380 499 370 357 406 377 423 436 371 444 639 454 576 601 468 463 440 355 453 574	265 324 318 234 280 296 328 308 323 327 298 8 313 312 318 267 328 345 409 358 414 438 300 334 441	359 335 331 340 347 346 339 352 353 351 340 336 355 430 443 395 430 443 395 436 472 420 472 491 494	548 559 402 478 448 491 431 415 463 474 507 554 526 468 480 509 516 566 567 582 544 583 619 557 600	375 400 346 337 37 403 346 360 404 4 296 353 392 394 413 471 489 465 489 325 513 516 481 489	429 450 376 418 406 431 387 384 435 440 469 490 390 413 427 431 461 516 536 524 515 549 498 529 555 542 509 514

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PLATTE RIVER BASIN

06711565 SOUTH PLATTE RIVER AT ENGLEWOOD, CO--Continued

pH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DE	ECEMBER			JANUARY	
1 2 3 4 5	8.4 8.2 8.2 	7.5 7.5 7.5 	7.8 7.7 7.7 	8.0 8.0 8.2 8.2	7.6 7.6 7.6 7.8	7.8 7.8 7.8 7.9	8.4 8.3 8.3 8.3	7.9 7.8 7.8 7.8 7.9	8.1 8.0 8.0 8.0	8.1 8.2 8.1 8.2 8.1	7.7 7.7 7.8 7.8 7.8	7.9 7.9 7.9 7.9 7.9
6 7 8 9 10	8.4 8.3 8.3 8.3	 7.5 7.5 7.5	 7.8 7.8 7.8	8.3 8.4 8.5	7.8 8.0 8.0	8.0 8.1 8.2	8.3 8.4 8.4 8.6	7.8 7.9 7.9 7.8 7.9	8.0 8.1 8.1 8.1 8.2	8.0 8.1 	7.8 7.4 	7.9 7.8
11 12 13 14 15	8.3 8.3 8.2 8.2 8.2	7.5 7.5 7.5 7.5 7.5	7.8 7.8 7.7 7.7 7.8	8.4 8.4 8.5 8.5 8.4	8.0 8.0 8.0 8.0	8.1 8.1 8.1 8.2 8.1	8.4 8.3 8.3 8.4 8.1	7.7 7.8 7.8 7.8 7.8	8.0 8.0 8.0 8.0 7.9		 	
16 17 18 19 20	8.1 8.1 7.9 7.9	7.4 7.4 7.5 7.4 7.4	7.7 7.7 7.6 7.6 7.6	8.7 8.7 8.7 8.6 8.6	8.2 8.2 8.1 7.9 7.9	8.4 8.4 8.3 8.2 8.1	8.1 	7.8 	7.9 	 	 	
21 22 23 24 25	7.8 8.0 8.0 8.0	7.4 7.4 7.4 7.4 7.4	7.6 7.7 7.7 7.7 7.6	8.6 8.6 8.3 8.7 8.7	7.9 7.8 7.8 7.8 7.8	8.1 8.1 8.0 8.1 8.1		 			 	
26 27 28 29 30 31	7.6 7.8 7.9 7.8 7.6	7.4 7.4 7.4 7.4 7.4	7.5 7.6 7.6 7.6 7.5	8.1 8.5 8.3 8.3	7.8 7.8 7.8 7.8 7.8	7.9 8.1 8.0 8.0	 8.2	 7.8	 7.9	 	 	
MONTH												
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	 8.1 8.0	FEBRUARY 7.8 7.8	 7.9 7.9	 8.6 8.6	MARCH 7.8 7.9	 8.2 8.3	8.3 8.2 8.5 8.3 8.0	7.8 7.8 7.8 7.9 7.9	8.1 8.0 8.1 8.1 8.0	 	MAY 	
2 3 4	 8.1	 7.8	 7.9	 8.6	 7.8	 8.2	8.3 8.2 8.5 8.3	7.8 7.8 7.8 7.9	8.0 8.1 8.1		 	
2 3 4 5 6 7 8 9	8.1 8.0 8.0 8.0 8.1 8.1	 7.8 7.8 7.7 7.7 7.7	7.9 7.9 7.8 7.8 7.8 7.9	 8.6 8.6 8.6 8.6 8.5 8.5	7.8 7.9 7.9 7.8 7.7	8.2 8.3 8.3 8.2 8.1 8.1	8.3 8.2 8.5 8.3 8.0 8.3 8.2 8.3	7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9	8.0 8.1 8.1 8.0 8.0 8.0 8.1 8.1			
2 3 4 5 6 7 8 9 10 11 12 13 14	8.1 8.0 8.0 8.0 8.1 8.1 8.1 8.3 8.3	 7.8 7.8 7.7 7.7 7.7 7.7 7.7 7.9 7.9	7.9 7.9 7.8 7.8 7.9 7.9 7.9 8.1 8.1 8.2	8.6 8.6 8.6 8.6 8.6 8.5 8.6 8.6 8.7 8.6	7.8 7.9 7.8 7.9 7.8 7.7 7.8 7.9 7.9 7.8 8.0	8.2 8.3 8.3 8.2 8.1 8.1 8.2 8.2 8.3 8.2	8.3 8.2 8.5 8.3 8.0 8.3 8.3 8.3 8.3 8.3 8.3	7.8 7.8 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	8.0 8.1 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.0 8.1	 		
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.1 8.0 8.0 8.0 8.1 8.1 8.1 8.3 8.3 8.3	7.8 7.8 7.7 7.7 7.7 7.7 7.7 7.9 7.9	7.9 7.9 7.8 7.8 7.9 7.9 7.9 8.1 8.1 8.2	8.6 8.6 8.6 8.6 8.5 8.6 8.6 8.7 8.6 8.7 8.8	7.8 7.9 7.9 7.8 7.7 7.8 7.9 7.9 7.8 8.0 8.0 8.1 8.0 8.1	8.2 8.3 8.3 8.2 8.1 8.1 8.2 8.2 8.3 8.2 8.3 8.4 8.4 8.4	8.3 8.2 8.5 8.3 8.0 8.3 8.3 8.3 8.3 8.3 8.3	7.8 7.8 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.9	8.0 8.1 8.1 8.0 8.0 8.1 8.1 8.1 8.1 8.0 8.1			
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	8.1 8.0 8.0 8.1 8.1 8.1 8.1 8.3 8.3 8.6 	7.8 7.8 7.7 7.7 7.7 7.7 7.7 7.9 7.9 7.9	7.9 7.9 7.8 7.8 7.9 7.9 7.9 8.1 8.1 8.2	8.6 8.6 8.6 8.6 8.6 8.6 8.7 8.4 8.6 8.7 8.8 8.5 8.5 8.5	7.8 7.9 7.8 7.7 7.8 7.7 7.8 7.9 7.9 8.0 8.1 8.0 8.1 8.0 7.9 7.9	8.2 8.3 8.3 8.1 8.1 8.2 8.2 8.3 8.2 8.3 8.4 8.4 8.4 8.4 8.3 8.2	8.3 8.2 8.5 8.3 8.0 8.3 8.3 8.3 8.3 8.3 8.3	7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.9 7.8	8.0 8.1 8.1 8.0 8.0 8.1 8.1 8.1 8.1 8.0 			

06711565 SOUTH PLATTE RIVER AT ENGLEWOOD, CO--Continued

pH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		i	AUGUST		5	SEPTEMBE	R
1 2 3 4 5	8.7 8.6 8.8 8.9	7.7 7.7 7.8 7.7 7.7	8.1 8.1 8.2 8.2 8.2	8.4 8.5 8.5 8.5	7.6 7.6 7.5 7.6 7.6	7.9 7.9 8.0 7.9	 	 	 	8.2 8.2 8.3 8.1 8.3	7.2 7.2 7.1 7.2 7.1	7.7 7.5 7.6 7.6 7.8
6 7 8 9 10	8.9 8.3 8.2 8.2	7.7 7.7 7.6 7.6 7.6	8.1 7.8 7.8 7.8 7.9		 	 				8.3 8.4 8.5 	7.3 7.2 7.0 	7.8 7.8 7.7
11 12 13 14 15	8.5 8.3 8.3 8.5 8.3	7.7 7.7 7.7 7.7 7.7	8.0 7.9 7.9 8.0 7.9	 8.9	 7.0	 7.9	 	 	 	 	 	
16 17 18 19 20	8.3 8.2 8.3 8.3	7.6 7.5 7.5 7.6 7.6	7.8 7.8 7.8 7.8 7.9	 9.0 8.4	 7.2 7.2	 7.8 7.6	 9.2 10.2	 8.8	 9.5	 	 	
21 22 23 24 25	8.4 8.5 8.0 8.3	7.6 7.6 7.1 7.0 7.5	7.9 8.0 7.6 7.5 7.8	 	 	 	10.2 10.3 10.4 10.0 9.4	9.1 9.0 9.1 9.0 7.6	9.6 9.6 9.7 9.4 8.4	8.4 8.5 8.5	8.1 8.1 8.0	8.2 8.3 8.3
26 27 28 29 30 31	8.4 8.2 8.2 8.4 8.4	7.6 7.7 7.6 7.6	7.9 7.9 7.9 7.9 7.9	 			7.9 8.1 8.2 8.5 8.5	7.0 6.9 7.1 7.4 7.4 7.3	7.4 7.5 7.6 7.9 7.9	8.7 8.7 8.7 8.3 8.4	8.1 8.0 8.0 7.6 7.3	8.4 8.3 8.3 8.1 7.8
MONTH	8.9	7.0	7.9									

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DE	CEMBER			JANUARY	
1 2 3 4 5	16.4 16.7 	14.0 13.8 	14.9 15.0 	9.8 10.8 10.8	 7.4 8.3 7.8	8.6 9.2 8.8	5.2 4.4 3.8 3.2 5.2	1.6 2.0 .4 1.0	3.5 3.2 2.2 2.0 3.0	5.7 7.3 6.3 4.9 2.6	3.5 3.7 4.5 2.0	4.6 5.4 5.6 3.3 1.6
6 7 8 9 10	16.9 16.7 17.3	13.5 13.2 13.4	15.1 14.8 15.1	9.6 9.6 8.8	7.1 6.7 6.6	8.2 7.7 7.6	5.1 3.7 5.1 5.3 6.8	3.3 1.3 2.1 3.0 4.0	4.3 2.6 3.6 4.3 5.3	 		
11 12 13 14 15	17.6 17.4 17.5 16.8 16.7	13.8 13.8 13.9 14.1 13.2	15.4 15.3 15.4 15.1 14.7	9.5 10.0 8.9 7.8 6.4	5.9 6.1 6.6 5.9 5.0	7.3 7.7 7.7 6.7 5.9	6.7 6.5 6.1 4.5 3.6	3.1 3.4 3.2 1.9	4.8 4.9 4.6 3.2 2.1		 	
16 17 18 19 20	15.4 13.3 14.0 14.6 12.4	13.1 11.0 10.1 11.2 10.5	13.9 12.0 11.8 12.6 11.6	5.0 6.0 7.3 9.2 9.0	3.5 2.5 3.8 5.2 5.5	4.4 4.2 5.6 7.1 7.0	 			 	 	
21 22 23 24 25	11.7 12.0 11.9 11.2	9.5 8.4 9.6 9.4 9.1	10.5 10.1 10.7 10.4 10.0	7.3 7.6 6.2 7.0 7.4	5.2 4.9 4.6 4.1 4.4	6.2 6.2 5.2 5.4 5.8	 				 	
26 27 28 29 30 31	9.9 10.7 11.1 11.1 8.6	6.0 7.9 8.2 8.6 7.8	8.1 9.1 9.6 9.7 8.1	5.6 5.8 6.1 5.7 5.4	3.9 3.1 2.6 3.3 3.0	4.6 4.5 4.4 4.5 4.0	 6.5	 3.7	 4.9	 		
MONTH												

06711565 SOUTH PLATTE RIVER AT ENGLEWOOD, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	 5.0 5.1	 1.5 1.0	 2.8 2.7	6.9 8.4 7.1 5.5 6.9	1.0 2.9 3.5 2.3	3.9 5.8 5.6 3.9 3.9	11.8 8.4 13.5 11.2 8.2	8.4 5.2 4.7 5.7 4.4	9.9 6.1 9.1 9.1 5.9	11.9 12.8 14.6 15.7 16.9	8.3 7.5 7.3 8.6 9.7	9.8 9.6 10.5 11.8 12.8
6 7 8 9 10	3.6 5.3 5.5 5.2 5.0	1.8 .9 .4 .6	2.5 2.6 2.6 2.8 2.8	9.1 10.0 11.0 11.2	2.8 3.9 4.4 5.1 5.3	6.1 7.0 7.8 8.1 8.1	11.9 12.0 10.0 9.8 6.4	3.7 5.7 4.9 4.5 3.0	7.6 9.2 7.0 7.0 4.3	15.5 15.7 15.5 17.2 18.2	10.7 11.1 9.8 10.2 11.0	12.9 13.1 12.6 13.2 14.2
11 12 13 14 15	5.4 6.2 6.3 6.1 7.4	1.2 3.1 3.2 1.8 3.1	3.4 4.4 4.7 4.1 5.3	12.2 10.3 8.5 4.4 8.0	5.4 6.1 2.9 1.7 1.6	9.1 8.5 5.1 3.2 5.0	6.5 9.0 11.7 	1.4 1.3 3.5 	3.7 5.3 7.8 	14.7 17.2 17.5 15.5 18.9	11.4 10.3 10.9 11.1 11.6	12.9 13.4 13.9 13.2 14.7
16 17 18 19 20	8.1 8.1 6.8 7.4 6.7	3.0 4.5 3.8 2.5 2.8	5.8 6.4 5.4 5.3 4.4	10.1 9.8 11.9 13.2	3.9 6.0 5.4 6.3	7.5 8.2 8.8 10.1	 	 	 	 18.7	 12.7	 15.2
21 22 23 24 25	6.3 5.8 4.1 5.7 6.2	1.5 .7 1.7 1.2	3.8 3.5 2.8 3.3 3.7	13.7 12.3 12.7 10.1	8.9 7.0 7.1 2.3	11.3 9.8 10.1 6.5	 	 	 	18.0 15.6 18.6 18.4 18.5	13.4 14.0 13.4 13.9 14.3	15.5 14.7 15.5 15.7 15.8
26 27 28 29 30 31	4.9 5.8 4.8 	2.5 1.5 1.5 	3.9 3.7 2.8 	13.9 14.4 13.0 12.4 14.7	6.0 8.1 5.8 8.3 6.0 8.0	10.0 10.9 9.8 10.1 10.5	 		 	18.0 17.0 18.7 16.5 19.5 22.0	13.9 13.0 12.5 13.7 13.4 14.1	15.4 14.8 15.4 15.0 16.1 17.5
MONTH												
		JUNE			JULY			AUGUST			SEPTEMBE	IR
1 2 3 4 5	21.3 19.9 21.0 22.0 21.4	JUNE 15.2 15.8 15.7 16.2 16.5	17.8 17.6 17.8 18.6 18.4	21.5 22.1 22.2 22.9 22.4	JULY 16.5 16.1 16.2 16.1 16.4	18.7 18.6 18.7 19.0 19.2	22.9 22.4 24.1 23.7 21.0	19.2 19.5 18.8 19.0 19.3	20.8 20.7 21.0 20.6 20.1	22.0	SEPTEMBE 17.8 18.6 18.0 18.1 18.0	19.9 19.4 20.5 20.1 20.3
2 3 4	19.9 21.0 22.0	15.2 15.8 15.7 16.2	17.6 17.8 18.6	22.1 22.2 22.9	16.5 16.1 16.2 16.1	18.6 18.7 19.0	22.9 22.4 24.1 23.7	19.2 19.5 18.8 19.0	20.7 21.0 20.6	22.0 20.3 23.9 22.3	17.8 18.6 18.0 18.1	19.9 19.4 20.5 20.1
2 3 4 5 6 7 8 9	19.9 21.0 22.0 21.4 20.9 20.8 16.7 14.4	15.2 15.8 15.7 16.2 16.5	17.6 17.8 18.6 18.4 18.2 17.1 15.3 13.8	22.1 22.2 22.9 22.4 21.6 23.7 21.3 23.4	16.5 16.1 16.2 16.1 16.4 16.8 17.4 17.0	18.6 18.7 19.0 19.2 19.0 19.7 19.2 19.9	22.9 22.4 24.1 23.7 21.0 19.5 22.2 22.4 20.5	19.2 19.5 18.8 19.0 19.3 17.8 18.4 18.6 18.7	20.7 21.0 20.6 20.1 18.4 19.8 20.2 19.3	22.0 20.3 23.9 22.3 23.0 22.3 23.5 22.4	17.8 18.6 18.0 18.1 18.0	19.9 19.4 20.5 20.1 20.3 20.1 20.0 19.7
2 3 4 5 6 7 8 9 10 11 12 13 14	19.9 21.0 22.0 21.4 20.9 20.8 16.7 14.4 17.4 18.4 17.0 17.9 18.9	15.2 15.8 15.7 16.2 16.5 16.8 15.8 14.3 13.2 12.5	17.6 17.8 18.6 18.4 18.2 17.1 15.3 13.8 14.7 16.0 15.5 15.5	22.1 22.2 22.9 22.4 21.6 23.7 21.3 23.4 23.1 20.3 23.1 20.3 23.1 24.6	16.5 16.1 16.2 16.1 16.4 16.4 17.0 17.5 18.1 17.0 17.6	18.6 18.7 19.0 19.2 19.0 19.7 19.2 19.9 20.2 19.1 20.0 20.7 21.3	22.9 22.4 24.1 23.7 21.0 19.5 22.2 22.4 20.5 19.8 21.6 21.5 21.7 20.9	19.2 19.5 18.8 19.0 19.3 17.8 18.4 18.6 18.7 18.5	20.7 21.0 20.6 20.1 18.4 19.8 20.2 19.3 18.9 19.3 19.2 19.4 19.2	22.0 20.3 23.9 22.3 23.0 22.3 23.5 22.4 22.9 21.8 22.4	17.8 18.6 18.0 18.1 18.0 18.1 17.4 17.1 17.0 17.4 17.4 17.2	19.9 19.4 20.5 20.1 20.3 20.1 20.0 19.7 19.8 19.5 19.8 20.1 19.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	19.9 21.0 22.0 21.4 20.9 20.8 16.7 14.4 17.4 18.4 17.9 18.9 17.7	15.2 15.8 15.7 16.2 16.5 16.8 15.8 14.3 13.2 12.5 14.3 14.5 14.5 15.2	17.6 17.8 18.6 18.4 18.2 17.1 15.3 13.8 14.7 16.0 15.5 16.3 16.3 16.7 17.4 17.5	22.1 22.2 22.9 22.4 21.6 23.7 21.3 23.4 23.1 20.3 23.1 23.9 24.6 25.2	16.5 16.1 16.2 16.1 16.4 16.8 17.4 17.0 17.5 18.1 17.0 17.6 18.4	18.6 18.7 19.0 19.2 19.0 19.7 19.2 19.9 20.2 19.1 20.7 21.3 21.9	22.9 22.4 24.1 23.7 21.0 19.5 22.2 22.4 20.5 19.8 21.6 21.7 20.9 23.1 21.7 21.3 21.7 20.8	19.2 19.5 18.8 19.0 19.3 17.8 18.4 18.6 18.7 18.5 18.1 17.9 17.9 17.4 15.7 16.1 17.6 16.8	20.7 21.0 20.6 20.1 18.4 19.8 20.2 19.3 18.9 19.3 19.2 19.4 19.2 19.7	22.0 20.3 23.9 22.3 23.0 22.3 23.5 22.4 22.9 21.8 21.9 20.5 20.1 19.4 18.4	17.8 18.6 18.0 18.1 18.0 18.1 17.4 17.1 17.0 17.4 17.4 17.4 17.4 17.5 17.2 16.8	19.9 19.4 20.5 20.1 20.3 20.1 20.0 19.7 19.8 19.5 19.8 20.1 19.7 19.4
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	19.9 21.0 22.0 21.4 20.9 20.8 16.7 14.4 17.4 18.9 17.7 18.6 19.7 19.9 20.4 21.8 21.8 21.9	15.2 15.8 15.7 16.2 16.5 16.8 15.8 14.3 13.2 12.5 14.3 14.5 14.5 15.2 15.3 15.6 16.1 16.0	17.6 17.8 18.6 18.4 18.2 17.1 15.3 14.7 16.0 15.5 16.3 16.3 16.5 17.5 17.5 17.5 17.5	22.1 22.2 22.9 22.4 21.6 23.7 21.3 23.4 23.1 20.3 23.1 23.9 24.6 25.2	16.5 16.1 16.2 16.1 16.4 16.4 16.8 17.4 17.0 17.5 18.1 17.0 17.4 17.6 18.4	18.6 18.7 19.0 19.2 19.0 19.7 19.2 19.9 20.2 19.1 20.0 20.7 21.3 21.9	22.9 22.4 24.1 23.7 21.0 19.5 22.2 22.4 20.5 19.8 21.6 21.7 20.9 23.1 21.7 21.7 20.8 23.2 22.8 23.9 24.2	19.2 19.5 18.8 19.0 19.3 17.8 18.4 18.6 18.7 18.5 18.1 17.9 17.9 17.9 17.4 15.7 16.1 17.6 16.8 16.7	20.7 21.0 20.6 20.1 18.4 19.8 20.2 19.3 19.2 19.4 19.2 19.7 19.0 18.9 19.3 18.8 19.7	22.0 20.3 23.9 22.3 23.0 22.3 23.5 22.4 22.9 21.8 21.9 20.5 20.1 19.4 18.4 16.6	17.8 18.6 18.0 18.1 18.0 18.1 17.4 17.1 17.0 17.4 17.4 17.0 17.2 16.8 17.0 15.8 14.4 14.1 14.1 13.5 13.1	19.9 19.4 20.5 20.1 20.3 20.1 20.0 19.7 19.8 19.5 19.8 19.7 19.4 18.9 18.1 18.0 16.8 15.5

06711565 SOUTH PLATTE RIVER AT ENGLEWOOD, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		DI	ECEMBER			JANUARY	
1 2							11.9 11.8	8.2	9.8 9.7	12.1 12.1	8.3 8.2	9.6 9.6
3				10.4	8.0	9.1	11.4	8.6	9.9	10.7	8.1	9.0
4 5				9.6 9.3	7.4 7.3	8.3 8.1	11.5 11.4	8.6 7.5	9.7 9.3	12.1 12.4	8.3 9.5	10.0 10.5
6				9.6	7.4	8.2	11.1	7.5	8.8	12.2	9.6	10.6
7 8							11.3 11.3	8.3 8.0	9.5 9.3	12.6	9.4	10.8
9 10				11.8 12.2	9.7 9.4	10.4 10.4	11.2 11.9	7.7	9.0 9.1			
11 12				12.1 11.8	9.1 8.7	10.2 9.8	11.7 11.7	8.1 7.9	9.3 9.2			
13 14				11.6 12.0	8.4 8.7	9.5 9.7	11.8 13.7	7.9 8.0	9.2 10.2			
15				10.8	8.6	9.5	13.4	9.6	11.0			
16				10.9	8.5	9.6	12.1	9.2	10.5			
17 18				11.2 12.0	8.8 8.5	10.0 10.5						
19 20				12.7 12.0	9.3 9.8	10.6 10.6						
21				12.2	9.7							
22				11.9	9.7	10.6 10.2						
23 24	11.2 11.3	7.9 7.9	9.1 9.0	11.5 12.2	9.1 9.4	10.2 10.5						
25	10.8	7.9	8.8	12.2	9.1	10.4						
26	9.3	7.7	8.5	11.3	9.1	10.1						
27 28	8.8 8.9	6.7 6.6	7.7 7.3	13.3 12.0	8.9 8.6	10.5 9.9						
29 30	8.8	6.5	7.2	11.7 11.5	8.5 8.7	9.6 9.7						
31	8.7	6.9	7.5				11.7	8.3	9.5			
MONTH												
		FEBRUARY			MARCH			APRIL			MAY	
1 2				14.0	9.1	11.4 10.8	10.6	5.7	8.0 8.5			
2				14.0 14.0 13.5	9.1 8.2 8.2	10.8 10.5	10.6 9.8 11.3	5.7 7.0 6.5	8.5 8.9			
2				14.0 14.0	9.1 8.2	10.8	10.6	5.7 7.0	8.5			
2 3 4	 11.6	 9.0	 10.2	14.0 14.0 13.5 13.4	9.1 8.2 8.2 8.4	10.8 10.5 10.6	10.6 9.8 11.3 9.7	5.7 7.0 6.5 6.5	8.5 8.9 8.0			
2 3 4 5 6 7	 11.6 12.8 10.8 10.7	 9.0 8.1 7.9 8.0	 10.2 10.1 8.9 9.1	14.0 14.0 13.5 13.4 14.0	9.1 8.2 8.2 8.4 8.8	10.8 10.5 10.6 11.2	10.6 9.8 11.3 9.7 9.4 9.2 8.4	5.7 7.0 6.5 6.5 8.2 6.7 6.4	8.5 8.9 8.0 8.7 8.2 7.4	 		
2 3 4 5 6 7 8 9	11.6 12.8 10.8 10.7 10.6 10.9	 9.0 8.1 7.9 8.0 7.8 7.8	 10.2 10.1 8.9 9.1 8.9 8.9	14.0 14.0 13.5 13.4 14.0 14.6 14.6 14.5 14.2	9.1 8.2 8.2 8.4 8.8 7.7 7.7 8.1 7.6	10.8 10.5 10.6 11.2 10.7 10.6 10.6 10.2	10.6 9.8 11.3 9.7 9.4 9.2 8.4 9.0 8.8	5.7 7.0 6.5 6.5 8.2 6.7 6.4 6.6 7.4	8.5 8.9 8.0 8.7 8.2 7.4 7.9 8.0	 		
2 3 4 5 6 7 8	 11.6 12.8 10.8 10.7	 9.0 8.1 7.9 8.0 7.8	 10.2 10.1 8.9 9.1 8.9	14.0 14.0 13.5 13.4 14.0 14.6 14.5 14.2	9.1 8.2 8.2 8.4 8.8 7.7 7.7 8.1	10.8 10.5 10.6 11.2 10.7 10.6 10.6	10.6 9.8 11.3 9.7 9.4 9.2 8.4 9.0 8.8 9.7	5.7 7.0 6.5 6.5 8.2 6.7 6.4 6.6	8.5 8.9 8.0 8.7 8.2 7.4 7.9 8.0 8.8			
2 3 4 5 6 7 8 9	11.6 12.8 10.8 10.7 10.6 10.9	 9.0 8.1 7.9 8.0 7.8 7.8	 10.2 10.1 8.9 9.1 8.9 8.9	14.0 14.0 13.5 13.4 14.0 14.6 14.6 14.5 14.2	9.1 8.2 8.2 8.4 8.8 7.7 7.7 8.1 7.6	10.8 10.5 10.6 11.2 10.7 10.6 10.6 10.2	10.6 9.8 11.3 9.7 9.4 9.2 8.4 9.0 8.8	5.7 7.0 6.5 6.5 8.2 6.7 6.4 6.6 7.4	8.5 8.9 8.0 8.7 8.2 7.4 7.9 8.0	 		
2 3 4 5 6 7 8 9 10 11 12 13	11.6 12.8 10.8 10.7 10.6 10.9 11.0	9.0 8.1 7.9 8.0 7.8 7.8 7.7 7.6	10.2 10.1 8.9 9.1 8.9 9.1 9.1 8.9	14.0 14.0 13.5 13.4 14.0 14.6 14.5 14.2 14.0	9.1 8.2 8.4 8.8 7.7 7.7 8.1 7.6 7.5	10.8 10.5 10.6 11.2 10.7 10.6 10.2 10.0 9.8 9.8 9.7	10.6 9.8 11.3 9.7 9.4 9.2 8.4 9.0 8.8 9.7	5.7 7.0 6.5 8.2 6.4 6.4 7.5 7.9 6.0	8.5 8.9 8.0 8.7 8.2 7.4 7.9 8.0 8.8	 		
2 3 4 5 6 7 8 9 10	11.6 12.8 10.8 10.7 10.6 10.9 11.0	7.9 8.0 7.8 7.8 7.8 7.6	10.2 10.1 8.9 9.1 8.9 9.1 8.9 9.1	14.0 14.0 13.5 13.4 14.0 14.6 14.5 14.5 14.2 14.0	9.1 8.2 8.2 8.4 8.8 7.7 7.7 8.1 7.6 7.5	10.8 10.5 10.6 11.2 10.7 10.6 10.6 10.2 10.0	10.6 9.8 11.3 9.7 9.4 9.2 8.4 9.0 8.8 9.7	5.7 7.0 6.5 6.5 8.2 6.4 6.6 7.4 7.5	8.5 8.9 8.0 8.7 8.2 7.4 7.9 8.0 8.8	 		
2 3 4 5 6 7 8 9 10 11 12 13 14 15	11.6 12.8 10.8 10.7 10.6 10.9 11.0	7.9 8.0 7.8 7.8 7.8 7.6 7.6	10.2 10.1 8.9 9.1 8.9 8.9 9.1 9.1 8.8 8.7	14.0 14.0 13.5 13.4 14.0 14.6 14.5 14.2 14.0	9.1 8.2 8.2 8.4 8.8 7.7 7.7 8.1 7.6 7.5 7.0 7.1 7.8 9.5	10.8 10.5 10.6 11.2 10.7 10.6 10.6 10.2 10.0 9.8 9.8 9.7 11.1 10.8	10.6 9.8 11.3 9.7 9.4 9.2 8.4 9.0 8.8 9.7 9.8 9.2 9.1	5.7 7.0 6.5 6.5 8.2 6.7 6.6 7.4 7.5 7.3 6.0	8.5 8.9 8.7 8.2 7.4 7.9 8.0 8.8	 		
2 3 4 5 6 7 8 9 10 11 12 13 14 15	11.6 12.8 10.8 10.7 10.6 10.9 11.0 11.1 10.6 10.6 12.4	7.9 8.1 7.9 8.0 7.8 7.8 7.8 7.6 7.4 9.0	10.2 10.1 8.9 9.1 8.9 9.1 8.9 9.1 9.1 8.8 8.7 10.4	14.0 14.0 13.5 13.4 14.0 14.6 14.5 14.2 14.0 13.4 13.3 11.8 13.2 13.7	9.1 8.2 8.2 8.4 8.8 7.7 7.7 8.1 7.6 7.5 7.0 7.1 7.8 9.5 8.1	10.8 10.5 10.6 11.2 10.7 10.6 10.6 10.2 10.0 9.8 9.7 11.1 10.8	10.6 9.8 11.3 9.7 9.4 9.2 8.4 9.0 8.8 9.7 9.8 9.2 9.1	5.7 7.0 6.5 6.5 8.2 6.7 6.4 7.4 7.5 7.3 6.9 6.0	8.5 8.9 8.7 8.2 7.4 7.9 8.0 8.8 8.7 8.3 7.8			
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	11.6 12.8 10.8 10.7 10.6 10.9 11.0 11.1 10.6 10.6 12.4 12.5 12.5 12.5	7.9 8.1 7.9 8.0 7.8 7.8 7.6 7.6 7.4 9.0 8.7 8.6 7.7	10.2 10.1 8.9 9.1 8.9 9.1 9.1 8.8 8.7 10.4	14.0 14.0 13.5 13.4 14.0 14.6 14.5 14.2 14.0 13.3 11.8 13.2 13.7	9.1 8.2 8.2 8.4 8.8 7.7 7.7 8.1 7.6 7.5 7.0 7.1 7.8 9.5 8.1 7.1 7.1 8.1	10.8 10.5 10.6 11.2 10.7 10.6 10.6 10.2 10.0 9.8 9.7 11.1 10.8 9.9 9.3 9.7 9.4	10.6 9.8 11.3 9.7 9.4 9.2 8.4 9.0 8.8 9.7	5.7 7.0 6.5 6.5 8.2 6.7 6.4 6.6 7.4 7.5 7.3 6.9 6.0	8.5 8.9 8.7 8.2 7.4 7.9 8.0 8.8 8.7 8.3 7.8	 		
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	11.6 12.8 10.7 10.6 10.9 11.0 11.1 10.6 10.6 12.4 12.5 12.5 12.5 12.6 10.9	9.0 8.1 7.9 8.0 7.8 7.8 7.7 7.6 7.4 9.0 8.7 8.6 8.6 7.7	10.2 10.1 8.9 9.1 8.9 9.1 9.1 8.7 10.4 10.3 10.2 10.0 9.2 9.9	14.0 14.0 13.5 13.4 14.0 14.6 14.5 14.2 14.0 13.4 13.3 11.8 13.2 13.7	9.1 8.2 8.2 8.4 8.8 7.7 7.7 8.1 7.65 7.0 7.1 7.8 9.5 8.1 7.1 6.8 6.4 5.8	10.8 10.5 10.6 11.2 10.7 10.6 10.6 10.2 10.0 9.8 9.7 11.1 10.8 9.9 9.3 9.7 9.4 8.8	10.6 9.8 11.3 9.7 9.4 9.2 8.4 9.0 8.8 9.7 9.8 9.2 9.1	5.7 7.0 6.5 6.5 8.2 6.7 6.4 6.6 7.4 7.5 7.3 6.0 	8.5 8.9 8.0 8.7 8.2 7.4 7.9 8.0 8.8 8.7 8.3 7.8 			
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	11.6 12.8 10.8 10.7 10.6 10.9 11.0 11.1 10.6 12.4 12.5 12.5 12.6 10.9 12.8	7.9 8.1 7.9 8.0 7.8 7.8 7.6 7.4 9.0 8.7 8.6 67.7 7.7	10.2 10.1 8.9 9.1 8.9 9.1 9.1 8.7 10.4 10.3 10.2 10.0 9.2 9.9	14.0 14.0 13.5 13.4 14.0 14.6 14.5 14.2 14.0 13.4 13.3 11.8 13.2 13.7 12.7 13.0 13.4 13.5 13.4	9.1 8.2 8.4 8.8 7.7 7.7 8.1 7.6 7.5 7.0 7.1 7.8 9.5 8.1 7.1 6.4 5.8 5.9	10.8 10.5 10.6 11.2 10.7 10.6 10.6 10.2 10.0 9.8 9.7 11.1 10.8 9.9 9.3 9.7 9.4 8.8 8.3	10.6 9.8 11.3 9.7 9.4 9.2 8.4 9.0 8.8 9.7	5.7 7.0 6.5 6.5 8.2 6.7 6.4 6.6 7.4 7.5 7.3 6.9 6.0	8.5 8.9 8.7 8.2 7.4 7.9 8.0 8.8 8.7 8.3 7.8	 		
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	11.6 12.8 10.8 10.7 10.6 10.9 11.0 11.1 10.6 10.6 12.4 12.5 12.5 12.6 10.9 12.8	9.0 8.1 7.9 8.0 7.8 7.8 7.7 7.6 7.4 9.0 8.7 8.6 8.6 7.7 7.7	10.2 10.1 8.9 9.1 8.9 9.1 9.1 8.7 10.4 10.3 10.2 10.0 9.2 9.9	14.0 14.0 13.5 13.4 14.0 14.6 14.5 14.2 14.0 13.4 13.3 11.8 13.2 13.7 12.7 13.4 13.5 13.4 13.5	9.1 8.2 8.2 8.4 8.7 7.7 8.1 7.65 7.01 7.8 9.51 7.11 6.4 5.8 5.8 5.8	10.8 10.5 11.2 10.7 10.6 10.6 10.2 10.0 9.8 9.7 11.1 10.8 9.3 9.7 9.3 9.7 9.4 8.8 8.3 8.2 7.7	10.6 9.8 11.3 9.7 9.4 9.2 8.4 9.0 8.8 9.7 9.8 9.2 9.1	5.7 7.0 6.5 6.5 8.2 6.7 6.4 6.6 7.4 7.5 7.3 6.0 	8.5 8.9 8.0 8.7 8.2 7.4 7.9 8.0 8.8 8.7 8.3 7.8 			
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	11.6 12.8 10.8 10.7 10.6 10.9 11.0 11.1 10.6 10.6 12.4 12.5 12.5 12.6 10.9 12.8	7.9 8.1 7.9 8.0 7.8 7.8 7.6 7.6 7.4 9.0 8.7 8.6 8.6 7.7	10.2 10.1 8.9 9.1 8.9 8.9 9.1 9.1 8.8 8.7 10.4 10.3 10.2 10.0 9.2 9.9	14.0 14.0 13.5 13.4 14.0 14.6 14.5 14.2 14.0 13.4 13.3 11.8 13.2 13.7 12.7 13.0 13.4 13.3 13.2	9.1 8.2 8.4 8.8 7.7 7.7 8.1 7.6 7.5 7.0 7.1 7.1 8.1 7.1 6.8 6.4 5.8	10.8 10.5 10.6 11.2 10.7 10.6 10.6 10.2 10.0 9.8 9.7 11.1 10.8 9.9 9.3 9.7 9.3 9.7 8.8 8.3 8.2	10.6 9.8 11.3 9.7 9.4 9.2 8.4 9.0 8.8 9.7 9.8 9.2 9.1 	5.7 7.0 6.5 6.5 8.2 6.7 6.4 7.5 7.3 6.9 6.0	8.5 8.9 8.0 8.7 8.2 7.4 7.9 8.0 8.8 8.7 8.3 7.8	 		
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	11.6 12.8 10.8 10.7 10.6 10.9 11.0 11.1 10.6 10.6 10.6 12.4 12.5 12.6 10.9 12.8 12.9 13.4 13.7 13.7	7.9 8.1 7.9 8.0 7.8 7.8 7.7 7.4 9.0 8.7 8.6 7.7 7.7	10.2 10.1 8.9 9.1 8.9 9.1 8.9 9.1 10.4 10.3 10.2 10.0 9.2 9.9	14.0 14.0 13.5 13.4 14.0 14.6 14.5 14.2 14.0 13.4 13.3 11.8 13.2 13.7 12.7 13.0 13.4 13.5 13.4 13.5 13.4	9.1 8.2 8.4 8.7 7.7 8.1 7.6 7.5 7.0 7.1 8.1 7.1 7.1 8.1 7.1 8.1 7.1 8.1 7.1 8.1 7.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8	10.8 10.5 10.6 11.2 10.7 10.6 10.6 10.2 10.0 9.8 9.7 11.1 10.8 9.9 9.7 9.3 9.7 9.4 8.8 8.3 8.2 7.7 9.3 8.5	10.6 9.8 11.3 9.7 9.4 9.2 8.4 9.0 8.8 9.7 9.8 9.2 9.1 	5.7 7.0 6.5 6.5 8.2 6.7 6.4 6.6 7.4 7.5 7.3 6.9 6.0 	8.5 8.9 8.0 8.7 8.2 7.4 7.9 8.0 8.8 8.7 8.3 7.8 			
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	11.6 12.8 10.8 10.7 10.6 10.9 11.0 11.1 10.6 10.6 12.4 12.5 12.5 12.6 10.9 12.8 12.9 13.4 13.2 13.7 13.7	9.0 8.1 7.9 8.0 7.8 7.8 7.6 7.4 9.0 8.7 8.6 7.7 7.7 9.6 9.6 10.0 9.5 9.5	10.2 10.1 8.9 9.1 8.9 9.1 9.1 8.8 8.7 10.4 10.3 10.2 10.2 9.9 9.1 11.2 11.3 11.5 11.4	14.0 14.0 13.5 13.4 14.0 14.6 14.5 14.2 14.0 13.3 11.8 13.2 13.7 12.7 13.0 13.4 13.3 11.8 13.2 13.7	9.1 8.2 8.4 8.8 7.7 7.1 7.6 7.5 7.1 7.1 7.1 8.1 7.1 8.1 7.1 8.5 8.1 7.1 8.5 8.5 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	10.8 10.5 10.6 11.2 10.7 10.6 10.6 10.2 10.0 9.8 9.7 11.1 10.8 9.9 9.3 9.7 9.3 9.7 9.3 8.8 8.2 7.7 9.3 8.8	10.6 9.8 11.3 9.7 9.4 9.2 8.4 9.0 8.8 9.7 9.8 9.2 9.1 	5.7 7.0 6.5 6.5 8.2 6.7 6.4 6.6 7.4 7.5 7.3 6.0 	8.5 8.9 8.0 8.7 8.2 7.4 7.9 8.0 8.8 8.7 8.3 7.8 			
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	11.6 12.8 10.8 10.7 10.6 10.9 11.0 11.1 10.6 10.6 10.6 12.4 12.5 12.6 10.9 12.8 12.9 13.4 13.7 13.7	9.0 8.1 7.9 8.0 7.8 7.8 7.7 7.6 7.4 9.0 8.7 8.6 8.6 7.7 7.7	10.2 10.1 8.9 9.1 8.9 9.1 8.9 9.1 10.4 10.3 10.2 10.0 9.2 9.9	14.0 14.0 13.5 13.4 14.0 14.6 14.5 14.2 14.0 13.4 13.3 11.8 13.2 13.7 12.7 13.0 13.4 13.5 13.4 13.5 13.4 13.5 13.4 13.5 13.4 13.5 13.4 13.5 13.4 13.5 13.4 13.5 13.4 13.5 13.4 13.5 13.4 13.5 13.6 13.6 13.6 13.6 13.6 13.6 13.6 13.6	9.1 8.2 8.4 8.7 7.7 8.1 7.5 7.0 7.1 9.5 9.5 1 7.1 6.4 5.8 9.5 8.7 7.0 6.4 5.8 7.0 6.4 6.4 7.0 6.4 6.4 7.0 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4	10.8 10.5 10.6 11.2 10.7 10.6 10.6 10.2 10.0 9.8 9.7 11.1 10.8 9.9 9.7 9.3 9.7 9.4 8.8 8.3 8.2 7.7 9.3 8.5 8.0 7.5	10.6 9.8 11.3 9.7 9.4 9.2 8.4 9.0 8.8 9.7 9.8 9.2 9.1 	5.7 7.0 6.5 6.5 8.2 6.4 6.6 7.4 7.5 7.3 6.9 6.0 	8.5 8.9 8.0 8.7 8.2 7.4 7.9 8.0 8.8 8.7 8.3 7.8 			
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	11.6 12.8 10.8 10.7 10.6 10.9 11.0 11.1 10.6 10.6 12.4 12.5 12.5 12.6 10.9 12.8 12.5 12.7 13.7 13.7	9.0 8.1 7.9 8.0 7.8 7.8 7.7 7.6 7.4 9.0 8.7 8.6 8.6 7.7 7.7	10.2 10.1 8.9 9.1 8.9 9.1 8.9 9.1 9.1 8.7 10.4 10.3 10.0 9.2 9.9 11.1 11.2 11.3 11.5 11.4	14.0 14.0 13.5 13.4 14.0 14.6 14.5 14.2 14.0 13.4 13.3 11.8 13.2 13.7 12.7 13.4 13.5 13.4 13.5 13.4 13.5 13.4 13.5 13.4	9.1 8.2 8.2 8.4 8.7 7.7 8.1 7.5 7.0 9.5 7.1 8.1 7.1 8.1 6.4 8.5 7.7 6.4 8.5 7.0 6.4 8.5 7.0 6.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	10.8 10.5 10.6 11.2 10.7 10.6 10.6 10.2 10.0 9.8 9.7 11.1 10.8 9.3 9.7 9.3 9.7 9.3 8.3 8.3 8.3 8.5 7.9	10.6 9.8 11.3 9.7 9.4 9.2 8.4 9.0 8.8 9.7 9.8 9.2 9.1	5.7 7.0 6.5 6.5 8.2 6.7 6.4 6.6 7.4 7.5 7.3 6.0 	8.5 8.9 8.0 8.7 8.2 7.4 7.9 8.0 8.8 8.7 8.3 7.8 			
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	11.6 12.8 10.8 10.7 10.6 10.9 11.0 11.1 10.6 10.6 12.4 12.5 12.5 12.6 10.9 12.8 12.9 13.4 13.7 13.7 14.1 13.2	9.0 8.1 7.9 8.0 7.8 7.8 7.6 7.4 9.0 8.7 8.6 67.7 7.7 9.6 9.6 10.0 9.5 9.5 9.0 9.0	10.2 10.1 8.9 9.1 8.9 9.1 9.1 8.8 8.7 10.4 10.3 10.2 10.0 9.2 9.9 11.1 11.2 11.3 11.4 11.0	14.0 14.0 13.5 13.4 14.0 14.6 14.5 14.2 14.0 13.3 11.8 13.2 13.7 12.7 13.0 13.4 13.3 10.5 13.4 13.5 13.4 13.5 13.4 13.5 13.4 13.5 13.4 13.5 13.4 13.5 13.4 13.5 13.4 13.5 13.4 13.5 13.6 13.6 13.6 13.6 13.6 13.6 13.6 13.6	9.1 8.2 8.4 8.7 7.7 8.1 7.5 7.0 7.1 7.5 8.1 7.1 8.5 7.1 8.5 8.5 8.5 8.5 8.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9	10.8 10.5 10.6 11.2 10.7 10.6 10.6 10.2 10.0 9.8 9.7 11.1 10.8 9.9 9.3 9.7 9.3 9.7 9.3 8.8 8.2 7.7 9.3 8.5 8.0 7.9 9.3	10.6 9.8 11.3 9.7 9.4 9.2 8.4 9.0 8.8 9.7 9.8 9.2 9.1 	5.7 7.0 6.5 6.5 8.2 6.7 6.4 6.6 7.4 7.5 7.3 6.9 6.0 	8.5 8.9 8.0 8.7 8.2 7.4 7.9 8.0 8.8 8.7 8.3 7.8 			

06711565 SOUTH PLATTE RIVER AT ENGLEWOOD, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		P	AUGUST		5	SEPTEMBE	R
1 2 3 4 5	7.9 8.0 8.3 9.0 8.4	5.8 5.7 5.8 5.9 6.3	6.5 6.6 6.9 7.2 7.2	7.2 6.5 7.3 7.0 6.7	5.6 5.0 5.5 5.1 4.7	6.5 5.8 6.4 5.9 5.7	 		 	8.0 7.9 8.5 8.2 8.9	5.5 5.4 5.7 5.7 6.3	6.3 6.8 6.6 7.4
6 7 8 9 10	8.4 8.1 7.8 8.2 8.8	5.3 6.4 6.4 7.2 6.9	6.7 7.3 7.2 7.6 7.8	 		 	 		 	8.6 8.6 8.1 9.4 9.0	6.2 5.8 5.5 5.7	7.0 7.1 6.6 7.2 7.1
11 12 13 14 15	7.8 7.7 8.2 8.6 8.1	6.6 6.6 6.9 6.2 6.7	7.3 7.1 7.4 7.4 7.3	 		 	 			8.0 8.8 8.9 8.6 8.6	5.4 5.4 5.1 5.2 5.1	6.4 6.5 6.7 6.4 6.5
16 17 18 19 20	8.3 7.8 8.5 7.1 7.5	6.3 6.8 6.6 5.9 6.0	7.3 7.3 7.4 6.6 6.5	 		 	 8.3 8.1	 5.3 6.1	 6.7 7.0	8.7 9.2 8.7 9.1 8.3	5.3 5.4 5.3 5.4 5.6	6.6 6.8 6.6 6.7 6.6
21 22 23 24 25	8.0 8.7 8.5 8.2 7.6	6.1 6.1 5.9 6.1 6.4	7.1 7.5 7.0 7.0 6.9	 		 	8.0 8.0 8.2 7.9 9.8	5.8 5.8 5.3 4.6 4.5	6.7 6.7 6.7 5.9 6.5	8.0 7.4 8.3 8.4	6.0 6.5 6.3 6.0	6.8 7.0 7.0 7.0
26 27 28 29 30 31	7.2 6.8 5.8 7.9 8.2	6.2 5.3 4.7 4.8 5.7	6.7 6.2 5.3 6.0 6.5	 	 	 	9.0 8.9 9.0 8.2 8.1 8.3	5.0 5.0 4.8 4.8 5.5	6.2 6.3 6.2 6.4 6.5	7.9 8.0 8.6 9.6 9.8	5.8 5.6 5.9 6.2 6.5	6.6 6.6 7.1 7.5 7.8
MONTH	9.0	4.7	7.0									

06712000 CHERRY CREEK NEAR FRANKTOWN, CO

 $LOCATION.--Lat~39^{o}21'21'', long~104^{o}45'46'', in~NE^{1/4}~sec.15,~T.8~S.,~R.66~W.,~Douglas~County,~Hydrologic~Unit~10190003,~on~right~bank~1.5~mi~upstream~from~Russellville~Gulch,~and~2.5~mi~south~of~Franktown.$

DRAINAGE AREA.--169 mi².

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

REVISED RECORDS.--WSP 1730: Drainage area. WDR CO-87-1: 1983-85 (P).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,150 ft above sea level, from topographic map. See WSP 1730 for history of changes prior to Oct. 1, 1953.

REMARKS.--Records fair, except for estimated discharges, which are poor. Many small diversions upstream from station for irrigation of about 800 acres. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES OUTSIDE PERIOD OF RECORD .-- Flood of Aug. 3, 1933, caused by Castlewood Dam failure, exceeded all other observed floods at this location.

DISCHARGE CURIC FEET DED SECOND WATER VEAR OCTOBER 1000 TO SERTEMBER 1007

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3.1 3.0 3.0 3.0 3.0	6.3 3.7 2.7 2.5 2.4	7.5 8.5 5.5 4.4 7.3	5.1 5.8 6.7 6.3 8.2	e8.2 e8.4 e8.0 e7.0 e6.0	6.3 6.3 7.2 7.0 8.3	6.2 6.4 7.1 8.0	9.2 7.9 6.6 5.9	2.4 2.3 2.3 2.3 2.3	2.2 2.0 1.9 1.7	9.5 135 18 8.3 131	6.6 4.4 3.8 3.8 6.9
6 7 8 9 10	3.0 2.9 2.9 2.9 2.9	2.9 3.3 3.7 3.9 4.2	4.9 4.4 4.1 4.5 4.8	6.0 11 6.1 5.7 4.3	e6.6 e7.2 e7.0 e6.2 e6.6	7.3 8.1 8.8 9.2 9.4	11 9.0 7.6 7.3 7.0	10 4.3 2.4 2.1 2.0	3.1 15 12 12 9.1	1.5 1.5 1.5 1.5	282 63 12 8.5 127	6.6 3.6 3.7 3.7 3.6
11 12 13 14 15	2.9 2.9 2.8 2.8 2.9	4.2 3.8 4.2 3.8 3.6	5.1 5.2 5.4 4.9 5.5	6.2 21 8.4 7.8 8.1	e6.6 e6.2 e7.2 e8.2 e5.4	9.5 8.9 8.2 6.9 5.6	6.5 7.0 6.7 7.4 7.0	1.9 2.1 2.0 2.0 2.1	8.7 7.8 7.1 6.9 7.0	1.4 1.4 1.4 1.3	63 16 17 12 7.7	3.5 3.5 3.3 3.1 3.0
16 17 18 19 20	2.9 2.9 2.9 3.0 3.1	3.6 4.6 4.2 3.8 3.8	5.4 6.6 5.2 6.0 5.8	8.1 6.2 7.5 e8.0 e9.0	e5.9 e6.2 e7.0 8.0 8.6	5.7 6.2 6.5 6.3	6.7 6.4 6.0 5.9 5.6	2.1 2.0 2.0 2.0 1.9	6.1 5.0 4.6 4.4 3.6	1.3 1.3 1.3 1.3	6.2 5.5 6.3 9.7 6.3	3.0 2.8 2.5 2.4 2.5
21 22 23 24 25	3.1 3.1 3.2 3.5 7.4	3.7 3.7 3.7 3.9 3.9	6.6 7.8 9.3 7.8 7.6	e9.0 e8.0 e8.6 e8.0 e6.8	8.2 8.5 6.8 6.5 8.2	6.2 6.1 5.9 6.1 7.1	5.3 5.1 5.1 7.6 15	2.7 9.6 8.2 4.4 3.4	3.1 2.6 2.4 28 4.3	1.3 1.4 1.4 1.3	5.1 5.1 4.7 4.2 3.9	2.6 2.8 3.1 3.0 2.8
26 27 28 29 30 31	5.4 8.8 5.8 4.2 7.6 7.6	3.8 4.6 5.9 5.6 5.3	7.7 6.3 4.4 4.7 5.0 5.1	e9.6 e8.0 e6.0 e6.8 e7.7 e8.0	5.9 6.2 5.7 	7.5 8.4 7.7 7.7 6.9 6.4	11 10 9.7 5.8 9.6	2.9 2.7 3.1 2.7 2.6 2.5	4.4 3.2 2.8 2.5 2.3	1.4 2.2 3.4 2.3 3.5 3.3	4.2 8.1 3.5 4.0 4.0 3.8	2.5 2.5 2.4 2.4 2.3
TOTAL MEAN MAX MIN AC-FT	118.5 3.82 8.8 2.8 235	119.3 3.98 6.3 2.4 237	183.3 5.91 9.3 4.1 364	242.0 7.81 21 4.3 480	196.5 7.02 8.6 5.4 390	224.0 7.23 9.5 5.6 444	230.0 7.67 15 5.1 456	120.7 3.89 10 1.9 239	179.6 5.99 28 2.3 356	53.1 1.71 3.5 1.3 105	994.6 32.1 282 3.5 1970	102.7 3.42 6.9 2.3 204
STATIST	rics of M	ONTHLY MEA	AN DATA F		EARS 1940	- 1997,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	4.36 29.1 1985 .97 1953	5.50 30.7 1985 1.32 1955	5.03 25.2 1985 1.41 1964	5.08 17.7 1985 1.57 1951	8.53 29.3 1948 1.99 1956	22.3 184 1960 2.36 1972	19.3 138 1984 1.70 1963	15.3 138 1973 1.43 1963	8.50 42.6 1983 1.12 1954	6.98 43.8 1957 .80 1981	8.87 59.9 1945 .76 1962	3.36 18.2 1984 .78 1950
SUMMARY	STATIST	ICS	FOR	1996 CALEN	IDAR YEAR	F	OR 1997 WA	TER YEAR		WATER YE	ARS 1940	- 1997
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE			e ₂₅₀ a _{1.6} 1.6	Aug 23 Sep 3 Sep 3		2764.3 7.57 282 b1.3 1.3 1800 7.43	Aug 6 Jul 15 Jul 15 Aug 2		9.44 31.9 2.89 1400 C.20 .29 d ₉₁₇₀ f4.91	May Jul Jul Aug	1984 1954 6 1973 13 1946 10 1946 5 1945 5 1945	
ANNUAL 10 PERC 50 PERC	RUNOFF (, CENT EXCE: CENT EXCE: CENT EXCE:	AC-FT) EDS EDS		4480 9.6 4.4 2.3			5480 9.0 5.4 2.1	Aug 2		6840 16 4.3 1.3	. Aug	2 1713

e-Estimated.

e-ESTIMATEG.
a-Also occurred Sep 4-6, and 9.
b-Also occurred Jul 16-21, 24-25.
c-Also occurred Sep 30 and Oct 1, 1950.
d-Site and datum then in use, by float measurement.
f-Maximum gage height, 7.43 ft, Aug 2, 1997, current site and datum.

393109104464500 CHERRY CREEK NEAR PARKER, CO

LOCATION.--Lat 39°31'09", long 104°46'45", in SE¹/4NW¹/4NE¹/4 sec. 21, T.6 S., R.67 W., Douglas County, Hydrologic Unit 10190003, on right bank 200 ft upstream from Main Street, 1,100 ft downstream from mouth of Sulphur Gulch, and 0.8 mi west of City of

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD .-- October 1991 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,805 ft above sea level, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	1.8 1.8 1.8 1.5	2.0 1.9 1.9 2.0	1.8 1.9 1.7 1.9	2.6 3.0 3.2 2.9	5.2 5.4 4.8 3.6 4.1	6.8 7.7 8.1 7.8 6.2	6.0 6.4 6.8 8.7	8.1 7.3 7.3 6.8 5.8	2.9 2.8 3.0 2.4 1.8	2.0 1.4 1.9 2.7 2.7	2.8 3.2 3.4 3.6 4.7	2.3 2.3 2.3 17	
6 7 8 9 10	1.8 1.9 1.8 1.8 e1.8	1.9 1.6 1.7 1.8	1.8 1.9 1.8 1.8	1.6 1.6 1.8 2.9 2.2	4.9 4.7 4.1 4.4 4.3	8.3 8.7 9.2 9.3 9.7	11 10 8.7 8.2 7.6	5.8 7.0 5.1 4.2 3.7	3.3 5.8 3.2 4.8 5.8	2.9 2.8 2.8 2.9 3.0	87 97 21 8.5 5.1	4.9 4.9 3.9 3.4 3.0	
11 12 13 14 15	e1.9 1.9 1.2 1.3	1.9 2.0 1.8 1.9	1.7 1.6 1.7 1.7	1.5 1.4 1.4 1.7	4.7 5.1 5.3 4.2 4.8	9.8 9.4 9.0 8.2 7.7	7.0 7.0 7.4 7.7 7.6	3.5 3.0 2.8 2.8 2.8	4.8 4.1 11 7.8 5.3	3.0 3.2 3.1 3.1 3.0	e50 e40 22 15 11	3.3 3.2 3.2 3.1 3.2	
16 17 18 19 20	2.0 2.0 2.1 2.1 2.1	1.9 1.9 1.9 1.9	1.7 1.7 1.6 1.6	2.0 2.0 2.3 3.1 4.2	5.6 5.9 6.1 7.2 7.3	7.0 6.4 5.9 6.2 6.2	7.0 6.5 6.3 5.9 5.8	3.0 3.1 3.1 3.1 2.8	4.4 3.6 3.1 2.8 3.2	3.5 3.5 3.4 4.0 2.8	7.2 6.0 36 6.2 5.6	3.0 3.1 2.9 2.3 1.6	
21 22 23 24 25	2.2 2.0 2.2 2.2 2.1	1.6 1.8 2.1 2.0 2.1	1.8 1.7 1.7 1.7	4.4 3.8 4.4 3.9 3.7	7.5 5.8 7.2 7.2 6.5	5.6 5.5 5.3 5.9 5.8	5.3 5.2 5.2 10 12	2.8 4.3 5.2 3.9 3.1	3.1 3.1 2.7 3.0 2.8	2.8 2.8 2.7 3.1 3.1	4.3 3.4 3.0 2.9 2.8	1.6 1.8 2.5 2.2	
26 27 28 29 30 31	2.1 2.1 2.1 2.1 2.1 2.1	1.9 1.9 1.9 1.9	1.7 1.7 1.9 2.2 2.2	5.3 4.3 3.6 5.0 5.0	8.5 7.0 7.0 	7.3 7.6 7.3 7.4 7.0 6.4	14 13 11 9.1 7.0	3.1 3.0 3.0 3.1 3.1	2.4 2.8 2.7 2.7 2.5	3.3 3.3 14 19 6.1 3.1	2.8 2.7 3.5 3.4 2.4 2.4	2.1 2.0 2.1 2.0 1.9	
TOTAL MEAN MAX MIN AC-FT	58.9 1.90 2.2 1.2 117	56.2 1.87 2.1 1.6 111	55.4 1.79 2.2 1.6 110	93.3 3.01 5.3 1.4 185	158.4 5.66 8.5 3.6 314	228.7 7.38 9.8 5.3 454	244.4 8.15 14 5.2 485	128.8 4.15 8.1 2.8 255	113.7 3.79 11 1.8 226	121.0 3.90 19 1.4 240	468.9 15.1 97 2.4 930	107.0 3.57 17 1.6 212	
MEAN MAX (WY) MIN (WY)	2.16 3.95 1996 1.26 1992	3.39 8.85 1996 .79 1995	3.89 8.97 1996 .76 1995	5.07 8.84 1996 1.51 1995	9.43 14.1 1993 1.74 1995	15.6 42.8 1992 3.82 1995	13.6 21.7 1993 8.15 1997	9.59 26.8 1995 4.15 1997	10.1 33.5 1995 1.87 1994	4.75 14.0 1995 1.04 1994	4.59 15.1 1997 .58 1994	1.70 3.57 1997 .73 1994	
SUMMARY	STATISTI	CS	FOR 1	996 CALEN	IDAR YEAR	F	OR 1997 W	ATER YEAR		WATER Y	EARS 1992	- 1997	
SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			2003.1 5.47 e80 a1.2 1.3 3970 12 3.0 1.6	Aug 23 Aug 9 Aug 8		1834.7 5.03 97 1.2 1.6 168 6.18 3640 8.2 3.1 1.7	Aug 7 Oct 13 Oct 9 Aug 18		6.9 8.9 5.0 229 b.4 .4 c457 7.1 5050 14 3.6 1.1	2 3 Jun 3 Aug 5 Aug Jun	1992 1997 29 1995 24 1994 21 1994 29 1995 29 1995		

e-Estimated.

a-Also occurred Aug 10 and Oct 13. b-Also occurred Aug 25, 1994. c-From rating curve extended above 140 ft³/s.

06712990 CHERRY CREEK LAKE NEAR DENVER, CO

LOCATION.--Lat 39°39'03", long 104°51'13", in NW¹/4NE¹/4 sec.2, T.5 S., R.67 W., Arapahoe County, Hydrologic Unit 10190003, 0.2 mi from right end of dam, 0.8 mi southwest from intersection of Interstate Highway 225 and Parker Road, 1.6 mi northwest of intersection of Parker and Airline Roads, and 11.5 mi upstream from mouth.

DRAINAGE AREA.--385 mi².

PERIOD OF RECORD.--Contents, October 1960 to current year. Water-quality data available, October 1976 to September 1981.

GAGE.--Water-stage recorder. Datum of gage is 5,598.00 ft above sea level (levels by U.S. Army, Corps of Engineers); gage readings have been reduced to elevations above sea level.

REMARKS.--Reservoir is formed by earthfill dam. Dam completed in June 1950; storage began May 15, 1957. Capacity, 92,820 acre-ft, at elevation 5,598.00 ft, crest of spillway. No dead storage. Figures given represent total contents. Reservoir is for flood control and recreation.

COOPERATION.--Records provided by U.S. Army, Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 31,120 acre-ft, June 3, 1973, elevation, 5,565.82 ft; minimum, 9,980 acre-ft, Nov. 23-24, 1978, elevation, 5,545.90 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 13,530 acre-ft, Aug. 8, elevation, 5,550.85 ft; minimum, 12,370 acre-ft, Nov. 1-3, elevation, 5,549.48 ft.

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

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	5,549.58 5,549.49 5,549.67 5,550.02	12,460 12,380 12,530 12,820	- -80 +150 +290
CAL YR 1996	-	-	-160
Jan. 31. Feb. 28. Mar. 31. Apr. 30. May 31. June 30. July 31. Aug. 31. Sept. 30.	5,550.35 5,550.53 5,550.69 5,550.04 5,550.14 5,550.70 5,550.70 5,550.30	13,140 13,260 13,400 13,220 12,840 12,920 13,400 12,880 13,060	+320 +120 +140 -180 -380 +80 +480 -520 +180
WTR YR 1997	_	-	+600

06713000 CHERRY CREEK BELOW CHERRY CREEK LAKE, CO

LOCATION.--Lat 39°39'10", long 104°51'40", in SW¹/4SW¹/4 sec.35, T.4 S., R.67 W., Denver County, Hydrologic Unit 10190003, on right bank 2,000 ft downstream from Cherry Creek Dam, 2.2 mi southeast of Sullivan, 9 mi southeast of Civic Center in Denver, and 11 mi upstream from mouth.

DRAINAGE AREA.--385 mi².

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

REVISED RECORDS .-- WSP 1730: Drainage area.

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

REMARKS.--Records fair except for estimated daily discharges, and for discharges less than 1 ft³/s, which are poor. Flow regulated by Cherry Creek Lake (see elsewhere in this report). Diversions upstream from station for irrigation of about 1,800 acres. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known, 34,000 ft³/s, Aug. 3, 1933, by slope-area measurement near present site (Castlewood Dam failure).

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

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.05 .00 .01 .01	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	19 19 19 19	.00 4.6 e8.0 e12 e16	17 17 17 17	4.7 4.7 1.5 .00	.00 3.7 7.9 .00	32 32 32 33 34	.00 .00 .00 1.1 .01
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	18 17 17 17	e16 e16 e16 16	17 7.4 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	35 34 34 35 35	.00 .00 .00 .00
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	9.9 .00 .00 .00	16 16 16 16 16	.00 .00 14 112 .00	.00 .03 .06 .00	.00 .00 .00 .00	36 36 36 35 35	.00 .00 .00 .00
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	16 15 15 15 15	.00 .00 .00 .00 2.6	.00 .00 .00 .00	.00 .00 .00 .00	35 34 34 34 34	.00 .00 .00 .00
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	13 18 19 19	.00 .00 .00 .00	15 16 17 18 17	9.2 9.6 9.9 10 7.4	.00 .00 .00 .00	.00 .00 .00 .00	34 34 34 34 34	.00 .00 .00 .00
26 27 28 29 30 31	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00 .00	19 19 19 	.00 .00 .00 .00	17 17 17 17 17	5.4 5.2 4.8 4.3 4.7	.00 .00 .00 .00	.00 .02 3.5 .02 4.0	.00 .00 .00 .00 .00	.00 .00 .00 .00
TOTAL MEAN MAX MIN AC-FT	0.07 .002 .05 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	145.00 5.18 19 .00 288	190.90 6.16 19 .00 379	444.60 14.8 18 .00 882	313.20 10.1 112 .00 621	10.99 .37 4.7 .00 22	35.14 1.13 16 .00 70	865.05 27.9 36 .00 1720	1.11 .037 1.1 .00 2.2
MEAN MAX (WY) MIN (WY)	1.47 29.6 1985 .000 1958	1.55 38.5 1985 .000 1958	2.50 39.1 1985 .000 1958	2.00 42.4 1985 .000 1958	6.77 60.3 1984 .000 1958	12.1 108 1974 .000 1958	, BY WATER 16.1 166 1984 .000 1958	10.3 104 1984 .000 1958	9.44 243 1973 .000 1961	4.83 71.3 1983 .000 1964	10.7 218 1965 .000 1957	2.72 54.2 1965 .000 1957
SUMMARY	STATISTI	CS	FOR 1	.996 CALE	NDAR YEAR	1	FOR 1997 T	WATER YEAR		WATER Y	ZEARS 1950	- 1997
SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS						1470	May 14 00 Oct 2 00 Oct 5		6.5 38.8 .0 721 b.0 1470 6.5 4870	3 000 Aug 00 May : 00 May : May :	1984 1967 1 1956 19 1957 19 1957 14 1997 14 1997	
50 PERC	ENT EXCEE ENT EXCEE	DS		3.6			. (00		. (00	

e-Estimated.

a-No flow many days. b-No flow most of time since May 1957.

06713300 CHERRY CREEK AT GLENDALE, CO

LOCATION.--Lat 39°42'22", long 104°56'13", in SW¹/4NW¹/4 sec.18, T.4 S., R.67 W., Denver County, Hydrologic Unit 10190003, on left bank 900 ft upstream from Colorado Boulevard, on Cherry Creek South Drive and Ash Court, in the City of Glendale, and 6 mi downstream from Cherry Creek Reservoir.

DRAINAGE AREA.--404 mi².

PERIOD OF RECORD .-- January 1985 to current year.

REVISED RECORDS.--WDR CO-96-1: 1995 (M).

GAGE.--Water-stage recorder with crest-stage gage. Elevation of gage is 5,320 ft above sea level, from topographic map.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. Flow regulated by Cherry Creek Lake (see station 06712990). Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	e20 e20 e19 e18 e18	10 9.6 11 11 8.1	6.5 6.2 5.9 5.6 5.8	4.9 4.9 5.3 4.6 4.3	5.4 4.6 4.6 4.5 4.4	25 21 20 21 20	2.8 15 7.5 89 60	21 22 22 23 23	21 21 19 13 12	15 11 15 15	98 38 29 49 78	45 53 22 105 183		
6 7 8 9 10	e17 e16 e16 e15 e15	7.9 7.7 7.3 7.0 7.1	5.9 6.3 5.5 5.5 5.5	4.5 5.4 6.0 6.0 4.9	4.9 6.4 5.9 4.8 4.5	20 20 20 19 20	25 19 17 32 29	25 22 11 9.4 9.4	53 117 34 16 19	16 16 15 14 13	181 51 33 39 39	59 50 24 18 17		
11 12 13 14 15	e14 e13 e12 e11 e10	6.8 6.6 6.8 6.6 8.9	5.4 5.3 5.1 4.9 4.7	4.4 4.6 4.6 4.6 5.2	4.3 4.4 4.6 4.3 4.0	19 8.8 6.2 5.0 4.7	32 26 26 25 24	9.9 11 14 97 20	15 13 155 56 37	11 10 9.4 9.5	71 50 39 38 38	17 17 19 17 16		
16 17 18 19 20	e10 9.7 9.5 9.2 8.7	11 7.8 8.0 6.9 6.4	4.8 3.9 3.8 3.8 4.6	5.0 4.6 5.5 7.7 6.4	3.8 3.7 14 15	4.2 3.9 3.9 3.9 3.5	24 24 24 24 23	13 10 17 15	23 18 24 21 13	12 11 11 11	68 103 92 79 53	16 16 16 18 20		
21 22 23 24 25	9.2 8.4 8.6 7.7 7.8	6.0 6.1 6.4 6.0	7.0 8.8 6.2 5.6 5.6	5.7 5.0 4.7 4.7 4.6	9.9 15 19 19	3.4 3.4 3.4 11 6.8	25 24 24 192 93	15 62 34 22 23	9.6 8.6 32 22 18	9.2 7.9 9.3 9.7 25	71 50 50 48 49	15 14 65 46 24		
26 27 28 29 30 31	33 11 9.8 8.8 9.9	6.0 7.6 6.3 6.2 7.3	5.5 5.3 5.0 4.9 5.1 5.2	4.6 4.6 4.9 5.7 5.0 4.6	19 19 19 	3.9 3.5 3.7 3.5 2.8 2.8	60 41 24 21 21	21 22 21 21 20 20	17 14 14 16 18	18 130 320 181 212 236	65 52 40 47 51 47	23 23 22 23 21		
TOTAL MEAN MAX MIN AC-FT	405.3 13.1 33 7.7 804	226.4 7.55 11 6.0 449	169.2 5.46 8.8 3.8 336	157.5 5.08 7.7 4.3 312	257.0 9.18 19 3.7 510	317.3 10.2 25 2.8 629	1073.3 35.8 192 2.8 2130	685.7 22.1 97 9.4 1360	869.2 29.0 155 8.6 1720	1411.0 45.5 320 7.9 2800	1836 59.2 181 29 3640	1024 34.1 183 14 2030		
							, BY WATER							
MEAN MAX (WY) MIN (WY)	12.7 38.0 1986 4.65 1995	9.77 22.2 1988 4.42 1995	9.38 29.8 1988 1.94 1995	11.0 45.7 1985 3.01 1995	16.7 53.2 1988 3.46 1990	28.2 75.2 1985 4.41 1995	36.5 74.5 1986 9.81 1991	36.3 88.5 1995 16.2 1993	37.8 85.3 1995 13.7 1990	26.0 55.9 1995 5.71 1994	26.0 59.2 1997 8.41 1986	20.7 43.0 1995 3.90 1994		
SUMMARY	Y STATIST	ICS	FOR	1996 CALEN	DAR YEAR	I	FOR 1997 WA	TER YEAR		WATER YEA	ARS 1985	- 1997		
SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW			7121.9 19.5 194 a3.8 4.4	May 26 Dec 18 Dec 14		320 b2.8 3.3 1860	Jul 28 Mar 30 Mar 26 Jul 28		21.6 36.2 10.9 461 1.1 1.6	Apr Sep 2 Jul 2	1988 1994 17 1995 1 1991 29 1993 20 1986			
ANNUAL 10 PERC 50 PERC	FANEOUS P RUNOFF (. CENT EXCE CENT EXCE	EDS EDS		14130 35 15 6.3			9.36 16720 50 14 4.6	Jul 28		^C 6.74 15660 57 12 3.9	Jul 2	20 1986		

e-Estimated.

a-Also occurred Dec 19. b-Also occurred Mar 31 to Apr 1. c-Maximum gage height, 9.36 ft, Jul 28, 1997.

06713500 CHERRY CREEK AT DENVER, CO

 $LOCATION.--Lat~39^{o}44'47'', long~105^{o}00'00'', in~NE^{1/4}~sec. 33,~T.3~S.,~R.68~W.,~Denver~County,~Hydrologic~Unit~10190003,~on~right~County,~C$ bank 300 ft upstream from Market Street Bridge in Denver, and 0.7 mi upstream from mouth.

PERIOD OF RECORD.--August 1942 to September 1969, February 1980 to September 1983, and annual maximums 1984, 1985. April 1986 to current year. Water-quality data available, April 1993 to July 1995.

REVISED RECORDS.--WSP 1710: Drainage area. WDR CO-82-1: 1982 (M).

GAGE.--Water-stage recorder. Elevation of gage is 5,180 ft above sea level, from topographic map. See WSP 1730 for history of changes prior to July 16, 1951. Prior to March 1, 1995, at site 0.2 mi downstream, on downstream side of Wazee Street Bridge, at different

REMARKS.--Records fair except for estimated daily discharges which are poor. Several diversions upstream from station for irrigation of about 1,900 acres. Floodflow regulated by Cherry Creek Reservoir 11 mi upstream, capacity, 95,960 acre-ft. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 26, 1885, reached a discharge of 20,000 ft³/s, by float measurement. Flood of May 19 and 20, 1864, reached a somewhat higher stage. Flood of Aug. 3, 1933, reached a discharge of about 15,000 ft3/s, as determined by rise of South Platte River at Denver.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	26 28 28 27 23	17 15 15 18 13	12 11 11 11	9.6 10 11 10 9.9	9.3 9.1 8.6 9.0 8.9	e32 e27 e26 e27 e26	e9.0 25 13 99 68	e32 e35 e38 37 34	22 22 20 15 16	21 19 22 21 23	97 61 49 78 103	52 63 34 134 199
6 7 8 9 10	24 25 24 23 25	13 13 13 12 12	10 11 10 11 10	11 11 12 11	10 12 11 9.7 9.2	e26 e26 e26 e26 e26	37 31 29 43 38	34 32 21 19 16	75 148 42 30 21	24 24 23 22 21	168 61 55 57 58	79 75 46 38 34
11 12 13 14 15	26 20 19 19 17	12 12 12 13 16	10 10 10 9.9 9.7	9.8 9.0 10 11 12	9.5 9.6 e9.3 e9.0 e8.6	e25 e24 e20 e10 e9.0	41 33 31 30 29	18 17 17 89 15	19 19 153 75 53	20 20 19 17 18	203 63 54 56 55	30 33 33 29 26
16 17 18 19 20	17 16 16 18 18	20 14 15 12 11	11 9.9 9.4 11 12	11 10 12 14 12	e8.0 e8.4 e11 e21 e19	e8.0 e6.0 e5.0 e5.0 e4.5	30 30 30 30 30	11 12 28 19 14	40 27 33 33 23	18 18 17 17	62 98 102 85 73	24 24 23 28 34
21 22 23 24 25	18 17 18 19	11 11 11 11	14 16 13 11	10 9.7 9.6 9.7 9.5	e18 e25 e25 e24 e25	e4.3 e8.0 e11 e17 e15	31 31 35 253 e150	19 88 39 25 23	20 19 46 30 28	17 17 25 18 48	79 67 63 59 58	26 29 82 56 28
26 27 28 29 30 31	52 23 22 19 18 20	11 13 12 11 13	10 10 9.6 9.4 9.8 9.7	9.1 9.4 9.7 13 9.6 8.7	e25 e25 e25 	e12 e8.0 e3.5 e2.8 e2.5 e5.0	e100 e80 e50 e40 e28	24 24 24 22 21 20	24 21 22 22 23	20 147 420 133 184 190	70 60 50 49 56 51	27 27 26 26 25
TOTAL MEAN MAX MIN AC-FT	684 22.1 52 16 1360	393 13.1 20 11 780	334.4 10.8 16 9.4 663	325.3 10.5 14 8.7 645	402.2 14.4 25 8.0 798	473.6 15.3 32 2.5 939	1504.0 50.1 253 9.0 2980	867 28.0 89 11 1720	1141 38.0 153 15 2260	1622 52.3 420 17 3220	2300 74.2 203 49 4560	1390 46.3 199 23 2760
							, BY WATER Y		20.1	04.4	20.0	15.5
MEAN MAX (WY) MIN (WY)	13.8 31.2 1943 3.66 1949	11.0 30.3 1988 3.61 1955	9.46 54.4 1988 3.39 1956	9.12 27.5 1943 3.17 1956	14.7 73.8 1948 4.18 1952	23.6 179 1948 3.25 1955	26.3 119 1983 3.28 1955	35.1 119 1983 6.10 1966	30.1 118 1944 3.17 1946	24.4 161 1983 3.74 1948	38.2 236 1945 4.05 1948	17.5 64.9 1965 4.03 1948
		CS	FOR	1996 CALEN	IDAR YEAR	F	FOR 1997 WAT	TER YEAR		WATER YEA	RS 1942	- 1997
SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN			9588.9 26.2 280 7.3	May 26 Feb 15		11436.5 31.3 420 e _{2.5}	Jul 28 Mar 30		21.1 70.7 6.00 1350 a.40	Jun 1	1983 1954 8 1945 16 1948	
	SEVEN-DAY ANEOUS PE			9.4	Feb 11		5.8 2910	Mar 16 Jul 28		.93 b ₃₁₂₀		1948 5 1945
INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				19020 47 21 11			11.98 22680 63 20 9.6	Jul 28		C5.25 15280 40 10 4.4		5 1945

e-Estimated.

a-Also occurred Jun 17-18, 1948. b-Site and datum then in use. c-Maximum gage height, 11.98 ft, Jun 28, 1997.

06714000 SOUTH PLATTE RIVER AT DENVER, CO

LOCATION.--Lat 39°45'35", long 105°00'10", in NW¹/4SE¹/4 sec.28, T.3 S., R.68 W., Denver County, Hydrologic Unit 10190003, on right bank 90 ft upstream from Nineteenth Street Bridge in Denver, and 0.4 mi downstream from Cherry Creek.

DRAINAGE AREA.--3,861 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May to October 1889, June to October 1890, July 1895 to current year. Monthly discharge only for some periods, published in WSP 1310. Statistical summary computed for 1976 to current year.

REVISED RECORDS, -- WSP 1310: 1934(M). WSP 1730: 1957(M). WDR CO-86-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,157.64 ft above sea level, adjustment of 1960. Prior to Aug. 12, 1909, nonrecording gages, and Aug. 12, 1909 to Aug. 28, 1931, water-stage recorder, at several sites within 0.5 mi of present site at various datums. Aug. 29, 1931 to June 28, 1965, water-stage recorder at site 70 ft downstream at datum 3.66 ft lower. June 29, 1965 to Mar. 18, 1966, water-stage recorder at site 70 ft downstream at present datum.

REMARKS .-- No estimated daily discharges. Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of about 79,000 acres and municipal use, and return flow from irrigated areas.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	209 207 208 193 200	180 183 184 184 149	141 132 126 118 120	82 89 89 97 93	87 90 91 84 82	189 172 167 163 152	98 182 122 530 471	461 443 401 385 371	459 536 587 610 539	684 569 575 470 455	934 872 675 954 1230	326 321 360 588 639
6 7 8 9	207 209 201 202 198	154 158 157 160 161	124 136 126 133 149	91 92 91 97 93	86 92 91 85 80	152 126 121 123 123	194 160 177 197 196	338 314 325 399 346	856 1330 717 671 766	422 420 459 440 393	1290 1020 906 888 864	357 441 399 270 252
11 12 13 14 15	194 181 174 185 185	132 118 115 116 135	115 101 102 93 90	83 77 81 77 91	100 116 131 135 141	132 135 141 138 126	214 164 153 140 124	342 361 371 449 407	972 932 1390 1160 1230	338 329 236 222 250	1550 1050 934 813 620	191 186 295 205 186
16 17 18 19 20	182 177 189 175 189	235 222 226 220 270	94 74 78 73 86	83 77 89 98 95	133 143 199 187 169	119 122 114 108 106	116 116 124 127 126	380 373 455 432 493	1130 1140 1110 1030 955	274 308 257 275 392	603 533 445 348 376	185 161 160 186 236
21 22 23 24 25	191 184 182 183 188	276 272 244 240 233	100 119 105 94 90	101 90 88 83 79	199 175 181 171 162	107 111 101 147 145	134 152 172 1270 666	468 577 570 610 621	842 735 804 754 757	467 482 562 486 545	304 357 350 258 235	202 219 533 250 202
26 27 28 29 30 31	414 228 199 196 198 202	194 184 148 136 150	91 90 90 88 88 91	83 82 83 103 87 82	181 171 163 	109 100 82 94 91 94	534 424 407 447 476	569 524 401 375 352 414	778 734 742 766 670	378 775 1690 918 586 1270	236 231 222 374 350 335	250 237 223 210 203
TOTAL MEAN MAX MIN AC-FT	6230 201 414 174 12360	5536 185 276 115 10980	3257 105 149 73 6460	2726 87.9 103 77 5410	3725 133 199 80 7390	3910 126 189 82 7760	8413 280 1270 98 16690	13327 430 621 314 26430	25702 857 1390 459 50980	15927 514 1690 222 31590	20157 650 1550 222 39980	8473 282 639 160 16810
STATIST		MONTHLY MEAN										
MEAN MAX (WY) MIN (WY)	199 1184 1985 66.8 1978	194 809 1985 94.4 1976	139 366 1985 84.1 1978	123 282 1985 64.9 1979	141 273 1984 80.7 1977	192 420 1983 94.9 1978	425 1377 1984 99.1 1982	913 2970 1980 218 1978	845 2759 1983 164 1981	592 2546 1995 139 1994	483 1774 1984 177 1981	237 911 1984 76.5 1977
SUMMAR	Y STATIS	TICS	FOR	1996 CALEI	NDAR YEAR	F	OR 1997 WA	TER YEAR		WATER Y	EARS 1976	- 1997
				79218 216			117383 322			^a 375 961 _b 138		1983 1978
HIGHEST ANNUAL INSTAN	r daily Daily M SEVEN-D raneous	MEAN EAN AY MINIMUM PEAK FLOW		1780 ^C 73 77	May 26 Feb 1 Jan 29		1690 73 81 6220	Jul 28 Dec 19 Jan 11 Aug 11		f 12200	Apr Apr Jun	27 1987 8 1978 2 1978 8 1987
INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				157100 400 181 91			8.64 232800 755 197 90	Aug 11		97.77 271500 745 185 86	7 Jun	8 1987

a-Average discharge for 79 years (water years 1896-1974), 344 ft³/s; 249200 acre-ft/yr, prior to completion of Chatfield Dam. b-Maximum daily discharge for period of record, 12000 ft³/s, Jun 17, 1965. c-Also occurred Feb 2 and Dec 19. d-Minimum daily discharge for period of record, 8.8 ft³/s, Mar 25, 1951. f-Maximum discharge and stage for period of record, 40300 ft³/s, Jun 17, 1965, gage height, 18.66 ft, from floodmarks, present datum, from rating curve extended above 2700 ft³/s, on basis of contracted-opening measurement of peak flow. g-Maximum gage height for statistical period, 9.42 ft, Jun 4, 1995.

06714000 SOUTH PLATTE RIVER AT DENVER, CO--Continued (National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1993 to September 1995, May to September 1997.

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	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)
MAY 01 JUN	1330	473	576	8.2	10.5	9.7	180	51	11	43
10	1045	573	348	7.9	14.5	8.5	100	30	6.5	26
JUL 23 30	1540 1005	540 376	401 532	8.2 7.9	25.0 20.0	6.9 7.5	120 150	34 45	8.4 9.1	31 44
AUG 07	1120	1040	394 ^a	8.0	19.5	8.5	120	36	8.0	28
SEP 09	1045	262	640	8.1	18.5	8.1	170	51	10	49
DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR-b BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-C LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
MAY 01	3.4	126	103	93	47	0.6	6.9	344	0.01	2.0
JUN	2.4	87	71	50	25	0.4	12			
JUL								213	0.01	1.1
23 30	2.7 3.9	84 118	69 97	55 92	26 32	0.7 0.6	7.5 9.1	250 334	0.03 0.04	1.9 2.0
AUG 07	2.7	93	76	61	24	0.6	8.6	244	0.02	0.86
SEP 09	3.6	144	118	97	40	0.7	9.9	371	0.01	2.1
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)
MAY 01	<0.01	0.6	0.3	0.21	0.12	0.15	14	28		
JUN 10	0.03	1.2	0.3	0.21	0.12	0.15	210	28	5.7	1.6
JUL 23	0.03	0.7	<0.4	0.32	0.08	0.08	33	13	3.7	0.9
30	0.04	0.7	0.5	0.28	0.16	0.14	53	31	5	1.4
AUG 07 SEP	0.04	0.6	0.4	0.18	0.11	0.08	12	7	3.7	0.9
09	0.02	0.4	0.2	0.27	0.20	0.18	10	47	3.5	1.4

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

06714000 SOUTH PLATTE RIVER AT DENVER, CO--Continued (National Water-Quality Assessment Program station)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- ^d MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	
MAY					
01 JUN	1330	473	37	47	
10 JUL	1045	573	89	138	97
23	1540	540	27	39	92
30	1005	376	67	68	98
AUG 07 SEP	1120	1040	97	272	74
09	1045	262	17	12	97

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

06714215 SOUTH PLATTE RIVER AT 64TH AVENUE AT COMMERCE CITY, CO

LOCATION.--Lat 39°48'44", long 104°57'28", in NW¹/4NW¹/4 sec.12, T.3 S., R.68 W., Adams County, Hydrologic Unit 10190003, on left bank 300 ft southeast of intersection of York Street and East 64th Avenue, and 1,900 ft upstream from mouth of Sand Creek at northwest corner of Metro Denver Sewage Disposal plant at Commerce City.

DRAINAGE AREA.--3,884 mi².

PERIOD OF RECORD .-- January 1982 to current year.

REVISED RECORDS.--WDR CO-86-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Elevation of gage is 5,105 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by transmountain diversions, storage and flood-control reservoirs, power developments, diversions for irrigation and municipal use, and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

Qui	ity Zucu	1 01 Oug		ARGE, CUBIC		SECOND,	WATER YEA MEAN VAL		1996 TO SI	EPTEMBER 19	997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	6.8 5.8 7.1 6.7	7.6 12 129 242 200	8.8 9.2 12 9.6	17 12 11 13 15	96 98 98 96 96	13 10 8.7 9.6 9.7	4.4 21 9.1 375 416	40 20 15 14 13	26 28 37 63 18	109 17 23 74 113	788 476 359 545 1250	94 136 144 329 521
6 7 8 9 10	6.6 12 13 12 9.4	196 193 187 132	11 11 11 12 12	12 62 112 116 117	99 99 98 95 95	9.7 8.8 11 13 11	118 117 9.6 61 136	11 12 11 13 13	515 1470 745 714 620	90 85 120 173 263	1350 576 414 397 410	115 178 157 40 16
11 12 13 14 15	7.1 7.1 9.5 11	11 17 16 14 11	9.9 7.9 7.6 8.5	105 98 105 106 114	59 16 13 12 14	9.8 11 12 9.9 7.6	260 200 180 141 37	12 11 12 28 9.5	599 565 943 1100 1250	277 269 162 142 170	1560 1050 739 767 569	14 22 43 19 12
16 17 18 19 20	11 11 9.4 11	14 13 14 12	6.9 15 98 95 122	108 104 114 81 103	14 13 46 92 77	7.6 6.6 3.8 5.2	16 18 21 22 24	7.6 11 63 40 44	1040 827 776 679 636	184 231 179 205 304	535 538 310 96 115	114 113 38 85 176
21 22 23 24 25	12 11 11 9.6 9.7	9.0 11 11 11 12	135 154 136 118 115	106 102 101 98 98	107 84 123 107 18	9.2 11 9.5 10 9.2	28 53 71 1480 652	84 174 78 63 73	527 414 413 352 350	390 402 490 428 482	35 80 82 30 17	114 103 243 169 109
26 27 28 29 30 31	160 12 7.4 9.4 9.8 6.8	11 11 10 9.7 13	98 19 16 12 11	98 98 97 101 96 95	15 15 14 	4.8 4.1 3.7 10 9.1 6.9	348 41 20 26 50	21 57 23 19 19	286 233 224 216 154	336 657 1510 677 104 997	30 57 14 119 114 97	143 140 126 113 106
TOTAL MEAN MAX MIN AC-FT	444.2 14.3 160 5.8 881	1552.3 51.7 242 7.6 3080	1316.4 42.5 154 6.9 2610	2615 84.4 117 11 5190	1809 64.6 123 12 3590	275.5 8.89 13 3.7 546	4955.1 165 1480 4.4 9830	1029.1 33.2 174 7.6 2040	15820 527 1470 18 31380	9663 312 1510 17 19170	13519 436 1560 14 26810	3732 124 521 12 7400
				OR WATER Y						400	205	140
MEAN MAX (WY) MIN (WY)	112 1286 1985 10.0 1989	105 927 1985 9.00 1989	61.6 199 1986 8.79 1991	84.9 235 1984 11.2 1995	75.1 325 1984 8.58 1982	117 305 1984 6.81 1995	309 1335 1984 21.0 1991	750 2675 1987 33.2 1997	579 2560 1995 47.3 1990	490 2130 1995 42.5 1994	395 1410 1984 125 1994	140 755 1984 20.1 1992
SUMMAR	Y STATIST	rics	FOR	1996 CALEN	DAR YEAR	1	FOR 1997 W	ATER YEAR		WATER YE	EARS 1982	- 1997
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				26945.6 73.6 1330 a5.6 6.8 53450 181 22 8.6	May 26 Apr 1 Sep 30		56730.6 155 1560 3.7 6.1 9280 7.0 112500 485 57 9.4	Aug 11 Mar 28 Mar 26 Aug 11 7 Aug 11		279 825 50.5 4110 2.1 3.7 14300 8.09 202200 648 66 8.9	Mar Mar Jun	1983 1994 27 1987 14 1995 11 1995 8 1987 8 1987

a-Also occurred Apr 2 and 23.

394839104570300 SAND CREEK AT MOUTH NEAR COMMERCE CITY, CO

 $LOCATION.--Lat~39^{o}48'39", long~104^{o}57'03", in~SE^{1/4}NW^{1/4}NW^{1/4}~sec.12, T.3~S., R.68~W., Adams~County, Hydrologic~Unit~10190003, on left bank~0.1~mi~downstream~from~confluence~of~Burlington~Ditch~and~Sand~Creek~in~northeast~corner~of~Metro~Sewer~Plant.$

DRAINAGE AREA.--191 mi².

PERIOD OF RECORD .-- January 1992 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,120 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	42 27 29 25 32	e13 24 37 54 26	21 19 18 16 19	12 12 12 12 12	48 60 57 41 34	350 347 328 346 321	18 50 30 140 214	64 63 59 57 56	44 58 52 48 45	65 64 70 100	351 137 112 174 397	179 172 160 230 510
6 7 8 9 10	39 39 38 41 53	18 14 16 16 14	20 18 20 20 22	11 11 14 15 13	75 50 50 38 33	320 266 213 213 207	117 24 18 16 53	52 49 47 64 73	202 546 141 95 110	113 113 121 160 157	748 232 102 87 104	241 230 245 240 194
11 12 13 14 15	35 17 15 14 e17	13 14 14 14 17	17 16 16 15 13	15 16 16 15 17	30 19 16 16 17	203 202 202 64 23	61 49 41 41 33	55 63 71 74 68	177 154 192 293 134	151 117 109 112 107	547 417 224 93 81	188 148 114 107 103
16 17 18 19 20	e17 e17 e17 e15 e16	31 24 26 23 27	12 10 9.7 13 14	20 19 25 67 52	15 16 26 69 43	19 19 16 13	28 21 17 21 31	64 53 52 61 61	118 136 142 142 113	106 108 104 554 312	78 137 143 155 157	76 55 113 125 117
21 22 23 24 25	e16 e17 e16 16 15	22 21 19 18 19	16 26 29 21 19	47 35 43 37 33	28 18 208 285 423	13 11 10 17 25	31 28 34 351 143	54 151 117 74 62	80 76 88 97 96	223 224 225 241 289	176 201 206 193 186	108 107 115 155 150
26 27 28 29 30 31	65 35 21 16 e17 e18	19 18 19 20 23	20 17 15 13 14 12	35 38 43 63 53 46	414 374 357 	19 17 16 14 16	83 72 68 71 68	75 54 50 46 42 43	84 66 62 72 72	272 302 693 1100 995 671	161 141 129 172 150 147	147 143 141 132 128
TOTAL MEAN MAX MIN AC-FT	797 25.7 65 14 1580	633 21.1 54 13 1260	530.7 17.1 29 9.7 1050	859 27.7 67 11 1700	2860 102 423 15 5670	3856 124 350 10 7650	1972 65.7 351 16 3910 BY WATER Y	1974 63.7 151 42 3920	3735 125 546 44 7410	8047 260 1100 64 15960	6338 204 748 78 12570	4873 162 510 55 9670
MEAN MAX (WY) MIN (WY)	30.4 51.7 1996 17.8 1993	22.8 33.7 1996 16.8 1995	19.2 32.6 1996 13.3 1995	17.5 27.7 1997 12.9 1995	31.4 102 1997 14.6 1995	45.3 124 1997 13.6 1995	41.9 65.7 1997 25.2 1996	78.6 124 1995 46.1 1993	82.2 137 1995 33.9 1996	128 260 1997 68.0 1994	108 204 1997 53.6 1993	71.2 162 1997 16.9 1992
				1996 CALENI			OR 1997 WAT				ARS 1992	
SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW			15130.6 41.3 e ₅₀₀ 4.0 7.2	May 26 Jul 4 Jun 28		36474.7 99.9 1100 9.7 12 a ₅₇₅₀	Jul 29 Dec 18 Jan 1 Jul 29		58.3 99.9 35.5 1100 4.0 7.2	Jul Jun :	1997 1993 29 1997 4 1996 28 1996 29 1997	
INSTANT ANNUAL 10 PERC 50 PERC	ANEOUS PE 'ANEOUS PE RUNOFF (A 'ENT EXCEE 'ENT EXCEE 'ENT EXCEE	AK STAGE C-FT) DS DS		30010 113 21 13			12.12 72350 230 53 15	Jul 29		12.12 42250 131 30 13		29 1997

e-Estimated.

a-From rating curve extended above 500 ft^3/s .

393647105425317 SOUTH CLEAR CREEK ABOVE NAYLOR CREEK NEAR GEORGETOWN, CO

LOCATION.--Lat 39°36'47", long 105°42'53", T.5 S., R.74 W. (unsurveyed), Clear Creek County, Hydrologic Unit 10190004, on left bank 200 ft upstream from Naylor Creek, and 9.5 mi south of Georgetown.

DRAINAGE AREA.--2.19 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1996 to September 1997 (discontinued).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 10,710 ft above sea level, from topographic map. REMARKS.--Records good except for estimated daily discharges, which are poor. No known regulation or diversions.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.93 .85 .82 .78	e.54 e.54 e.54 e.54	e.45 e.45 e.45 e.45 e.45	e.40 e.40 e.40 e.40 e.40	e.35 e.34 e.34 e.33 e.32	e.32 e.32 e.31 e.32 e.32	e.42 e.45 e.48 e.51 e.54	e1.0 e1.0 e1.0 e1.0 e1.4	17 15 13 13	3.0 2.9 2.8 2.8 2.7	2.1 2.0 1.7 2.0 2.0	1.3 1.3 1.5 1.6
6 7 8 9 10	.72 .70 .66 .65	e.54 e.54 e.54 e.54	e.45 e.45 e.45 e.45 e.45	e.40 e.40 e.40 e.40 e.40	e.32 e.32 e.32 e.32 e.32	e.32 e.32 e.32 e.32 e.32	e.54 e.54 e.54 e.54	e2.0 e2.7 4.1 5.0 e5.7	12 18 13 11	2.6 2.6 2.6 2.5 2.4	2.6 2.8 2.3 2.0 4.0	1.1 1.0 .97 .95
11 12 13 14 15	.62 .61 .61 .60	e.54 e.54 e.54 e.54 e.54	e.45 e.45 e.45 e.45 e.45	e.40 e.40 e.39 e.38 e.37	e.32 e.32 e.32 e.32 e.32	e.32 e.32 e.32 e.32 e.32	e.54 e.54 e.54 e.54 e.54	e6.6 e7.8 8.9 11 13	9.6 8.3 9.9 9.6 7.8	2.4 2.3 2.0 1.9 1.7	2.7 2.4 2.1 1.7 1.4	.96 .88 .81 .79 .79
16 17 18 19 20	e.62 e.61 e.60 e.60 e.60	e.54 e.54 e.54 e.52 e.51	e.43 e.42 e.41 e.40 e.40	e.37 e.37 e.38 e.39 e.40	e.32 e.32 e.32 e.32 e.32	e.32 e.33 e.34 e.35 e.37	e.54 e.54 e.54 e.57 e.60	16 19 19 18 14	7.2 7.0 6.6 6.4 5.8	1.7 1.7 1.9 2.0 2.0	1.2 1.2 1.3 1.2	.83 .77 .77 .80 1.4
21 22 23 24 25	e.60 e.58 e.57 e.56 e.56	e.50 e.49 e.48 e.47 e.46	e.40	e.40 e.40 e.40 e.40 e.40	e.32 e.32 e.32 e.32 e.32	e.38 e.39 e.40 e.40 e.40	e.63 e.58 e.56 e.56 e.80	13 14 15 13 12	5.3 5.3 5.4 5.0 4.1	1.6 1.5 1.5 1.3	1.2 1.1 1.1 1.2 1.3	1.4 1.6 1.3 1.1
26 27 28 29 30 31	e.55 e.54 e.54 e.54 e.54	e.45 e.45 e.45	e.40 e.40 e.40 e.40 e.40	e.40 e.40 e.40 e.40 e.41	e.32 e.32 e.32	e.40 e.40	e1.0 e1.2 e1.0 e1.0	10 9.8 11 13 17 18	3.8 3.6 3.4 3.3 3.1	1.4 1.8 2.2 2.1 2.7 2.1	1.3 1.3 1.2 1.1 1.1	1.0 .97 .88 .82 .81
TOTAL MEAN MAX MIN AC-FT	19.69 .64 .93 .54 39	15.40 .51 .54 .45	13.21 .43 .45 .40 26	12.26 .40 .41 .37 24	9.04 .32 .35 .32 18	10.88 .35 .41 .31 22	18.92 .63 1.2 .42 38	304.0 9.81 19 1.0 603	253.5 8.45 18 3.1 503	66.0 2.13 3.0 1.3	52.9 1.71 4.0 1.1 105	31.43 1.05 1.6 .77 62
				OR WATER				•				
MEAN MAX (WY) MIN (WY)	.64 .64 1997 .64 1997	.51 .51 1997 .51 1997	.43 .43 1997 .43 1997	.40 .40 1997 .40 1997	.32 .32 1997 .32 1997	.35 .35 1997 .35 1997	.63 .63 1997 .63 1997	9.42 9.81 1997 9.04 1996	6.95 8.45 1997 5.45 1996	2.19 2.24 1996 2.13 1997	1.20 1.71 1997 .69 1996	.88 1.05 1997 .71 1996
SUMMARY	Y STATIST	ICS			FOR 1	997 WATER	YEAR			WATER YE	ARS 1996	- 1997
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS					a	e.31 M .32 F 31 M 7.83 M	lay 17 lar 3 eb 25 lay 17 lay 17			2.21 2.21 2.21 e,b ₁₉ e.31 7.83 1600 8.0 .82	May Mar Peb May May	1997 1997 19 1996 3 1997 25 1997 17 1997 17 1997

e-Estimated. a-Also occurred May 18. b-Also occurred May 17-18, 1997, which were not estimated days.

393647105425317 SOUTH CLEAR CREEK ABOVE NAYLOR CREEK NEAR GEORGETOWN, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1996 to September 1997 (discontinued).

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: June 1996 to September 1997 (discontinued).

WATER TEMPERATURE: June 1996 to September 1997 (discontinued).

INSTRUMENTATION.--Water-quality monitor with satellite telemetry since June 1996..

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

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum 244 microsiemens, August 21, 1996; minimum 28 microsiemens, May 17, 1997. WATER TEMPERATURE: Maximum 14.7°C, July 24, 1997; minimum 0.0°C, many days during winter months.

EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 125 microsiemens, Oct. 16 and 22; minimum, 28 microsiemens May 17. WATER TEMPERATURE: Maximum, 14.7°C, July 24; minimum, 0.0°C, on several days in Oct., Nov., and May.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	VEMBER		DE	CEMBER		1	JANUARY	•
1	94	88	91	97	94	95						
2	101	93	97	97	91	95						
3	103	99	101	96	90	94						
4	104	101	103	93	86	91						
5	106	102	104	92	90	91						
6	107	103	105	94	90	92						
7	110	105	108	95	92	94						
8	113	109	111									
9	114	111	112									
10	115	112	113									
11	116	113	114									
12	117	113	114									
13	116	111	114									
14	115	112	113									
15	123	99	113									
16	125	96	112									
17	114	103	109									
18	120	93	108									
19	103	92	97									
20	110	94	99									
21	121	99	109									
22	125	96	111									
23	104	94	99									
24	107	96	101									
25	105	99	103									
26	102	98	100									
27	100	94	98									
28	100	93	98									
29	102	94	98									
30	102	92	97									
31	102	94	97									
MONTH	125	88	105									

393647105425317 SOUTH CLEAR CREEK ABOVE NAYLOR CREEK NEAR GEORGETOWN, CO--Continued SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

			ECIFIC CONI									
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	:	FEBRUARY	•		MARCH			APRIL			MAY	
1										80	77	79
2 3										82	80	81
4										83 85	82 75	82 82
5										77	69	74
6												
7												
8 9										65 61	57 54	62 58
10												
11												
12												
13 14										55 50	41 40	51 48
15										52	39	48
16										48	38	44
17										41	28	37
18 19										43 44	36 34	39 40
20										42	36	40
21										45	39	43
22										46	41	43
23 24										50 45	39 39	45 43
25										46	42	44
26										49	43	47
27										55	49	52
28 29							 77	 75	 76	60 61	51 47	56 56
30							78	75	77	52	40	47
31										52	35	45
MONTH												
		JUNE			JULY		1	AUGUST		į	SEPTEMBE	R
1	50		45	86		84			Q 1			
1 2	50 53	JUNE 40 42	45 48	86 90	JULY 82 81	84 85	84 87	AUGUST 77 77	81 83	85 84	SEPTEMBE 79 79	R 82 81
2	53 55	40 42 46	48 50	90 92	82 81 84	85 88	84 87 92	77 77 72	83 86	85 84 102	79 79 70	82 81 81
2 3 4	53 55 56	40 42 46 44	48 50 51	90 92 91	82 81 84 86	85 88 88	84 87 92 84	77 77 72 73	83 86 81	85 84 102 87	79 79 70 76	82 81 81 82
2 3 4 5	53 55 56 56	40 42 46 44 47	48 50 51 53	90 92 91 91	82 81 84 86 86	85 88 88 89	84 87 92 84 85	77 77 72 73 76	83 86 81 80	85 84 102 87 87	79 79 70 76 69	82 81 81 82 83
2 3 4 5	53 55 56 56	40 42 46 44 47	48 50 51 53	90 92 91 91	82 81 84 86 86	85 88 88 89	84 87 92 84 85	77 77 72 73 76	83 86 81 80	85 84 102 87 87	79 79 70 76 69	82 81 81 82 83
2 3 4 5 6 7 8	53 55 56 56 59 54 55	40 42 46 44 47 48 43 46	48 50 51 53	90 92 91 91	82 81 84 86 86	85 88 88 89 90 90	84 87 92 84 85	77 77 72 73 76 64 59 63	83 86 81 80	85 84 102 87 87 86 85 87	79 79 70 76 69 79 63 43	82 81 81 82 83 83 78 69
2 3 4 5 6 7 8 9	53 55 56 56 59 54 55	40 42 46 44 47 48 43 46 49	48 50 51 53 56 48 50 53	90 92 91 91 93 95 88 91	82 81 84 86 86 87 84 86 86	85 88 88 89 90 90 87 88	84 87 92 84 85 78 70 81 81	77 77 72 73 76 64 59 63 65	83 86 81 80 69 65 72 77	85 84 102 87 87 86 85 87	79 79 70 76 69 79 63 43 46	82 81 81 82 83 83 78 69
2 3 4 5 6 7 8 9	53 55 56 56 59 54 55 55 59	40 42 46 44 47 48 43 46 49 54	48 50 51 53 56 48 50 53 57	90 92 91 91 93 95 88 91 93	82 81 84 86 86 87 84 86 86 88	85 88 88 89 90 90 87 88 90	84 87 92 84 85 70 81 81 66	77 77 72 73 76 64 59 63 65 52	83 86 81 80 69 65 72 77 57	85 84 102 87 87 86 85 87 73 100	79 79 70 76 69 79 63 43 46 47	82 81 81 82 83 78 69 60 74
2 3 4 5 6 7 8 9 10	53 55 56 56 59 54 55 55 59	40 42 46 44 47 48 43 46 49 54	48 50 51 53 56 48 50 53 57	90 92 91 91 93 95 88 91 93	82 81 84 86 86 87 84 86 88 88	85 88 89 90 90 87 88 90	84 87 92 84 85 78 70 81 81 66	77 77 72 73 76 64 59 63 65 52	83 86 81 80 69 65 72 77 57	85 84 102 87 87 86 85 87 73 100	79 79 70 76 69 79 63 43 46 47	82 81 81 82 83 83 78 69 60 74
2 3 4 5 6 7 8 9 10	53 55 56 56 59 54 55 55 59 60 63	40 42 46 44 47 48 43 46 49 54	48 50 51 53 56 48 50 53 57 58 61	90 92 91 91 93 95 88 91 93	82 81 84 86 86 87 84 86 88 88	85 88 88 89 90 90 87 88 90	84 87 92 84 85 78 70 81 81 66	77 77 72 73 76 64 59 63 65 52	83 86 81 80 69 65 72 77 57	85 84 102 87 87 86 85 87 73 100	79 79 70 76 69 79 63 43 46 47 95 96	82 81 81 82 83 83 78 69 60 74
2 3 4 5 6 7 8 9 10 11 12 13 14	53 55 56 56 59 54 55 55 59 60 63 62 57	40 42 46 44 47 48 43 46 49 54 56 58 50 52	48 50 51 53 56 48 50 53 57 58 61 57 55	90 92 91 91 93 95 88 91 93 91 95 101	82 81 84 86 86 87 84 86 86 88 87 87 87 91	85 88 89 90 90 87 88 90 88 90 96 98	84 87 92 84 85 78 70 81 81 66	77 77 72 73 76 64 59 63 65 52 60 68 77	83 86 81 80 69 65 72 77 57 67 72 76 79	85 84 102 87 87 86 85 87 73 100 99 104 106 107	79 79 70 76 69 79 63 43 46 47 95 96 98 100	82 81 81 82 83 83 78 69 60 74 97 99 102 104
2 3 4 5 6 7 8 9 10	53 55 56 56 59 54 55 55 59 60 63 62	40 42 46 44 47 48 43 46 49 54 56 58	48 50 51 53 56 48 50 53 57 58 61 57	90 92 91 91 93 95 88 91 93 91	82 81 84 86 86 87 84 86 88 87 91	85 88 88 89 90 87 88 90 88 90	84 87 92 84 85 78 70 81 81 66	77 77 72 73 76 64 59 63 65 52 60 68 72	83 86 81 80 69 65 72 77 57	85 84 102 87 87 86 85 87 73 100 99 104	79 79 70 76 69 79 63 43 46 47 95 98	82 81 81 82 83 83 78 69 60 74 97 99
2 3 4 5 6 7 8 9 10 11 12 13 14 15	53 55 56 56 59 54 55 55 59 60 63 62 57 64	40 42 46 44 47 48 43 46 49 54 56 58 50 52 56	48 50 51 53 56 48 50 53 57 58 61 57 55 60	90 92 91 91 93 95 88 91 93 91 95 101 104 106	82 81 84 86 86 87 84 86 86 88 87 91 93 96	85 88 88 89 90 87 88 90 88 90 96 98 101	84 87 92 84 85 78 70 81 81 66 73 75 80 82 88	77 77 72 73 76 64 59 63 65 52 60 68 72 77 79	83 86 81 80 69 65 72 77 57 67 72 76 79 83	85 84 102 87 87 86 85 87 73 100 99 104 106 107 107	79 79 70 76 69 79 63 43 46 47 95 96 100 101	82 81 81 82 83 83 78 69 60 74 97 99 102 104 104
2 3 4 5 6 7 8 9 10 11 12 13 14 15	53 55 56 56 59 54 55 55 55 60 63 62 57 64 66 67	40 42 46 44 47 48 43 46 49 54 56 58 50 50 60	48 50 51 53 56 48 50 53 57 58 61 57 55 60	90 92 91 91 93 95 88 91 93 91 95 101 104 106	82 81 84 86 86 87 84 86 88 87 91 93 96	85 88 88 89 90 90 87 88 90 96 98 101	84 87 92 84 85 78 70 81 81 66 73 75 80 82 88	77 77 72 73 76 64 59 63 65 52 60 68 72 77 79	83 86 81 80 69 65 72 77 57 67 72 76 79 83	85 84 102 87 87 86 85 87 73 100 99 104 106 107 107	79 79 70 76 69 79 63 43 46 47 95 98 100 101	82 81 81 82 83 83 78 60 74 97 99 102 104 104
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	53 55 56 56 59 54 55 55 59 60 63 62 57 64 66 67 69	40 42 46 44 47 48 43 46 49 54 56 58 50 52 56 60 63	48 50 51 53 56 48 50 53 57 58 61 57 55 60 64 63 65	90 92 91 91 93 95 88 91 93 91 95 101 104 106	82 84 86 86 87 84 86 88 87 87 93 96 98 97	85 88 88 89 90 90 87 88 90 96 98 101	84 87 92 84 85 78 70 81 81 66 73 75 80 82 88 87	77 77 72 73 76 64 59 63 65 52 60 68 72 77 79	83 86 81 80 69 65 72 77 57 67 72 76 79 83 84 84 83	85 84 102 87 87 86 85 87 73 100 99 104 106 107 107	79 79 70 76 69 79 63 43 46 47 95 98 100 101	82 81 81 82 83 78 69 60 74 97 99 102 104 104
2 3 4 5 6 7 8 9 10 11 12 13 14 15	53 55 56 56 59 54 55 55 55 60 63 62 57 64 66 67	40 42 46 44 47 48 43 46 49 54 56 58 50 50 60	48 50 51 53 56 48 50 53 57 58 61 57 55 60	90 92 91 91 93 95 88 91 93 91 95 101 104 106	82 81 84 86 86 87 84 86 88 87 91 93 96	85 88 88 89 90 90 87 88 90 96 98 101	84 87 92 84 85 78 70 81 81 66 73 75 80 82 88	77 77 72 73 76 64 59 63 65 52 60 68 72 77 79	83 86 81 80 69 65 72 77 57 67 72 76 79 83	85 84 102 87 87 86 85 87 73 100 99 104 106 107 107	79 79 70 76 69 79 63 43 46 47 95 98 100 101	82 81 81 82 83 83 78 60 74 97 99 102 104 104
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	53 55 56 56 59 54 55 55 55 59 60 63 62 57 64 66 67 71 71	40 42 46 44 47 48 43 46 49 54 56 58 50 60 63 63 63	48 50 51 53 56 48 50 53 57 58 61 57 55 60 64 63 65 66 68	90 92 91 91 93 95 88 91 93 91 104 106 104 101 99 95 94	82 81 84 86 86 87 84 86 88 87 93 96 97 74 76	85 88 88 89 90 87 88 90 96 98 101 100 98 94 91 88	84 87 92 84 85 78 70 81 81 66 73 75 80 82 88 87 88 87 88 87 88 87	77 77 77 72 73 76 64 59 63 65 52 60 68 77 79 80 76 78 75 71	83 86 81 80 69 65 72 77 57 67 72 76 79 83 84 84 84 88 80 82	85 84 102 87 87 86 85 87 73 100 99 104 106 107 107	79 79 70 76 69 79 63 43 46 47 95 98 100 101 99 102 101 97 81	82 81 81 82 83 78 69 60 74 97 99 102 104 104 101 104 104 86
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	53 55 56 56 59 54 55 55 59 60 63 62 57 64 66 67 69 71 71	40 42 46 44 47 48 43 46 49 54 56 58 50 60 63 63 63 68	48 50 51 53 56 48 50 53 57 58 61 57 55 60 64 63 65 66 68	90 92 91 91 93 95 88 91 93 91 95 101 104 106 104 101 99 95 94	82 81 84 86 86 87 84 86 88 87 91 93 96 97 77 74 76	85 88 88 89 90 90 87 88 90 96 98 101 100 98 94 91 88	84 87 92 84 85 78 70 81 81 66 73 75 80 82 88 87 88 87 88 87 88	77 77 72 73 76 64 59 63 65 52 60 68 72 77 79 80 76 78 75 71	83 86 81 80 69 65 72 77 57 67 72 76 79 83 84 84 83 82 82	85 84 102 87 87 86 85 87 73 100 99 104 106 107 107	79 79 70 76 69 79 63 443 46 47 95 98 100 101 97 81 74	82 81 81 82 83 83 78 69 60 74 97 99 102 104 104 104 104 86
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	53 55 56 56 59 54 55 55 59 60 63 62 57 64 66 67 69 71 71	40 42 46 44 47 48 43 46 49 55 55 60 63 63 63 68 66	48 50 51 53 56 48 50 53 57 58 61 57 55 60 64 63 65 66 68 71 72 70	90 92 91 91 93 95 88 91 93 91 95 101 104 106 104 101 99 95 94	82 84 86 86 87 84 86 88 87 87 93 99 74 76 87 77 88	85 88 89 90 90 87 88 90 96 98 101 100 98 94 91 88	84 87 92 84 85 78 70 81 81 66 73 75 80 82 88 87 88 88 87 88 88 88 88 88	77 77 72 73 76 64 59 63 65 52 77 79 80 76 78 75 71	83 86 81 80 69 65 72 77 57 67 79 83 84 83 80 82 84 85	85 84 102 87 87 86 85 87 73 100 99 104 106 107 107 103 107 106 106 100	79 79 70 76 69 79 63 43 447 95 98 100 101 97 81 74 81	82 81 81 82 83 78 69 60 74 97 91 102 104 101 101 104 104 86 85 78 83
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	53 55 56 56 59 54 55 55 59 60 63 62 57 64 66 67 69 71 71	40 42 46 44 47 48 43 46 49 54 56 58 50 60 63 63 63 68	48 50 51 53 56 48 50 53 57 58 61 57 55 60 64 63 65 66 68	90 92 91 91 93 95 88 91 93 91 95 101 104 106 104 101 99 95 94	82 81 84 86 86 87 84 86 88 87 91 93 96 97 77 74 76	85 88 88 89 90 90 87 88 90 96 98 101 100 98 94 91 88	84 87 92 84 85 78 70 81 81 66 73 75 80 82 88 87 88 87 88 87 88	77 77 72 73 76 64 59 63 65 52 60 68 72 77 79 80 76 78 75 71	83 86 81 80 69 65 72 77 57 67 72 76 79 83 84 84 83 82 82	85 84 102 87 87 86 85 87 73 100 99 104 106 107 107	79 79 70 76 69 79 63 443 46 47 95 98 100 101 97 81 74	82 81 81 82 83 83 78 69 60 74 97 99 102 104 104 104 104 86
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	53 55 56 56 59 54 55 55 55 60 63 62 57 64 66 67 71 71 74 75 74 79 82	40 42 446 447 48 446 449 54 558 552 56 60 663 663 666 666 73 76	48 50 51 53 56 48 50 53 57 58 61 57 55 60 64 63 66 68 71 72 70 71 76	90 92 91 91 93 95 88 91 93 91 95 101 104 106 104 101 99 95 94 93 94 97 98	82 81 84 86 86 87 84 86 88 87 91 93 96 87 77 87 77 88 90 92	85 88 88 89 90 87 88 90 96 98 101 100 98 91 88 90 91 88	84 87 92 84 85 78 70 81 81 66 73 75 80 82 88 87 88 87 88 88 87 88 88 88 88 88 88	77 77 77 72 73 76 64 59 63 65 52 60 68 77 79 80 76 78 77 77 77 77 77	83 86 81 80 69 65 72 77 57 67 79 83 84 84 83 80 82 84 86 85 84 81	85 84 102 87 87 86 85 87 73 100 99 104 106 107 107 103 107 106 106 100 88 81 85 90 94	79 79 70 76 69 79 63 443 447 95 98 100 101 97 81 74 74 74 81 81 88 90	82 81 81 82 83 78 69 60 74 97 902 104 104 101 104 104 86 85 78 83 86 91
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27	53 55 56 56 59 54 55 55 59 60 63 62 57 64 66 67 69 71 71 74 75 74 79 82 83	40 42 446 447 48 43 449 54 55 55 60 60 63 63 66 66 67 77 78	48 50 51 53 56 48 50 53 57 58 61 57 55 60 64 63 65 66 68 71 72 70 71 76	90 92 91 91 93 95 88 91 93 91 95 101 104 106 104 101 99 95 94 97 98	82 81 84 86 86 87 84 86 88 87 87 91 93 96 97 74 76 87 77 88 99 90 99 91 78	85 88 88 89 90 90 87 88 90 96 98 101 100 98 94 91 88 90 91 88	84 87 92 84 85 78 81 81 66 73 75 80 82 88 87 88 87 88 88 87 88 88 87 88 88 88	77 77 77 77 77 77 77 77 77 77 77 76 64 59 63 65 52 60 68 77 77 79 80 76 78 87 77 77 84 77 77 76 79 78	83 86 81 80 69 65 72 77 57 67 72 76 79 83 84 84 83 80 82 84 85 85 84 81	85 84 102 87 87 86 85 87 73 100 99 104 106 107 107 106 100 88 81 85 90 94	79 79 70 76 69 79 63 446 47 95 98 100 101 99 102 101 97 81 74 81 81 88	82 81 81 82 83 83 78 69 60 74 97 99 102 104 104 101 104 86 85 78 83 83 86 91
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	53 55 56 56 59 54 55 55 59 60 63 62 57 64 66 67 69 71 71 74 74 79 82 83 83 83	40 42 46 447 48 446 45 55 55 60 663 663 666 77 768 79	48 50 51 53 56 48 50 53 57 58 61 57 55 60 64 63 65 66 68 71 72 70 71 76	90 92 91 91 93 95 88 91 93 91 95 101 104 106 104 101 99 95 94 97 95 98	82 84 86 87 86 87 87 93 97 74 87 77 87 77 89 99 91 84	85 88 88 89 90 90 87 88 90 96 98 101 100 98 94 91 88 90 91 92 94	84 87 92 84 85 78 70 81 81 66 73 75 80 82 88 87 88 88 87 88 88 87 88 88 88 88 88	77 77 77 77 77 77 77 77 77 77 77 77 77	83 86 81 80 69 65 72 77 57 67 79 83 84 83 80 82 84 85 84 81	85 84 102 87 87 86 85 87 73 100 99 104 106 107 107 103 107 106 106 100 88 81 85 90 94	79 79 70 76 69 79 63 43 446 47 95 98 1001 97 81 74 81 81 88 90 93	82 81 81 82 83 78 69 60 74 97 91 102 104 104 101 104 104 104 104 104 104 104
2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	53 55 56 56 59 54 55 55 59 60 63 62 57 64 66 67 69 71 71 74 75 74 79 82 83 83 83 88 88	40 42 446 447 483 449 54 558 552 56 663 663 663 666 673 779 80	48 50 51 53 56 48 50 53 57 58 61 57 55 60 64 63 65 66 68 71 72 70 71 76	90 92 91 91 93 95 88 91 93 91 95 101 104 106 104 101 99 95 94 97 95 98	82 81 84 86 86 87 87 87 91 96 97 74 87 77 88 99 99 91 84 64 76 64 76 64 76 76 76 76 76 76 76 76 76 76 76 76 76	85 88 88 89 90 90 87 88 90 96 98 101 100 98 94 91 88 99 91 88 90 89 91 92 94	84 87 92 84 85 78 81 81 66 73 75 80 82 88 87 88 87 88 88 87 88 88 88 88 88 88	77 77 77 77 77 77 77 77 77 77 77 77 77	83 86 81 80 69 65 72 77 57 67 72 76 79 83 84 84 83 80 82 84 85 84 81 81 82 82 81 84 84 84	85 84 102 87 87 86 85 87 73 100 99 104 106 107 107 106 100 88 81 85 90 94 94 99 99 100	79 79 70 76 69 79 63 446 47 95 98 100 101 99 102 101 97 81 74 81 88 89 90 93 95 95	82 81 81 82 83 83 78 69 60 74 97 99 102 104 104 104 104 104 104 104 104 196 97 99 99 99 99 99 99 99 99 99 99 99 99
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	53 55 56 56 59 54 55 55 55 59 60 63 62 57 64 66 67 71 71 74 75 74 77 79 82 83 83 83 85	40 42 446 447 48 446 449 54 568 552 56 60 663 63 63 68 666 666 73 79 79	48 50 51 53 56 48 50 53 57 58 61 57 55 60 64 63 65 66 68 71 72 70 71 76	90 92 91 91 93 95 88 91 93 91 95 101 104 101 99 95 94 93 94 97 95 98	82 81 84 86 86 87 87 91 93 96 87 77 87 77 88 99 99 91 78 64 72	85 88 88 89 90 90 87 88 90 96 98 101 100 98 94 91 88 90 92 94 94 88 88 89	84 87 92 84 85 78 70 81 81 66 73 75 80 82 88 87 88 88 87 88 88 87 88 88 88 88 88	77 77 77 77 77 77 77 77 77 77 77 77 76 64 59 63 65 52 60 68 72 77 79 80 76 78 77 77 77 77 76 79 78 77 77 77 78 77 77 78 77 78 77 78 77 78 77 78 77 78 77 78 77 78 77 78 77 78 78	83 86 81 80 69 65 72 77 57 67 79 83 84 84 88 82 82 84 81 82 82 82 82 84	85 84 102 87 87 86 85 87 73 100 99 104 106 107 107 103 107 106 106 100 88 81 85 99 94 94 96 99 99 99	79 79 70 76 69 79 63 443 446 47 95 98 100 101 99 102 101 97 81 74 81 88 90 90 93 95	82 81 81 82 83 78 69 60 74 97 902 104 104 101 104 104 104 86 85 78 83 86 91
2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	53 55 56 56 59 54 55 55 59 60 63 62 57 64 66 67 69 71 71 74 75 74 79 82 83 83 83 88 88	40 42 446 447 483 449 54 558 552 56 663 663 663 666 673 779 80	48 50 51 53 56 48 50 53 57 58 61 57 55 60 64 63 65 66 68 71 72 70 71 76	90 92 91 91 93 95 88 91 93 91 95 101 104 106 104 101 99 95 94 97 95 98	82 81 84 86 86 87 87 87 91 96 97 74 87 77 88 99 99 91 84 64 76 64 76 64 76 76 76 76 76 76 76 76 76 76 76 76 76	85 88 88 89 90 90 87 88 90 96 98 101 100 98 94 91 88 99 91 88 90 89 91 92 94	84 87 92 84 85 78 81 81 66 73 75 80 82 88 87 88 87 88 88 87 88 88 88 88 88 88	77 77 77 77 77 77 77 77 77 77 77 77 77	83 86 81 80 69 65 72 77 57 67 72 76 79 83 84 84 83 80 82 84 85 84 81 81 82 82 81 84 84 84	85 84 102 87 87 86 85 87 73 100 99 104 106 107 107 106 100 88 81 85 90 94 94 99 99 100	79 79 70 76 69 79 63 446 47 95 98 100 101 99 102 101 97 81 74 81 88 89 90 93 95 95	82 81 81 82 83 83 78 69 60 74 97 99 102 104 104 104 104 104 104 104 104 196 97 99 99 99 99 99 99 99 99 99 99 99 99

393647105425317 SOUTH CLEAR CREEK ABOVE NAYLOR CREEK NEAR GEORGETOWN, CO--Continued

				TEMPERATU	KE, WAIE	K (DEG. C)	WATEK IEA	IK OCTOB	EK 1990 10	SEI TEMBER	. 1771	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	OVEMBER		DI	ECEMBER			JANUARY	
1	6.0	. 4	2.8	.1	.0	.0						
2	6.5	.5	3.3	. 2	.0	.1						
3	5.9	3.1	4.2	.1	.0	. 0						
4 5	5.8 6.0	1.0 .5	3.4 2.9	.1 .2	. 0	.0						
3	0.0		2.7	. 2	.0	.0						
6	5.5	.0	2.4	. 2	.0	.0						
7	5.5	. 7	2.7									
8 9	5.7 5.6	. 9 . 7	2.9 2.7									
10	5.2	. 0	2.3									
11	5.2	. 3	2.3									
12 13	4.8 4.3	. 0	2.1 1.8									
14	3.5	. 4	1.6									
15	2.1	. 0	.6									
1.0												
16 17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28 29												
30												
31	.1	.0	.0									
MONTH												
		FEBRIIARY			MARCH			APRIL			MAY	
		FEBRUARY			MARCH			APRIL			MAY	
1												
2						===			===			
2												
2 3 4 5	 	 					 	 	 	 		
2 3 4 5		 		 			 					
2 3 4 5	 	 					 	 	 		 	
2 3 4 5 6 7 8 9			 				 		 	 .5 .4	 .0	 .1 .1
2 3 4 5 6 7 8		 		 			=== === === ===			 .5	 . 0	 .1
2 3 4 5 6 7 8 9			 				 		 	 .5 .4	 .0	 .1 .1
2 3 4 5 6 7 8 9 10				 					 	.5	 .0 .0	 .1 .1
2 3 4 5 6 7 8 9 10 11 12 13						 	====		==== ==== ==== ==== ====	.5	 .0 .0	 .1 .1
2 3 4 5 6 7 8 9 10 11 12 13 14						 			======================================	.5 .4	 .0 .0 	1 .12 .1
2 3 4 5 6 7 8 9 10 11 12 13						 	====		==== ==== ==== ==== ====	.5	 .0 .0	 .1 .1
2 3 4 5 6 7 8 9 10 11 12 13 14 15										 .5 .4 .9 .8 1.2	 .0 .0 	1 .12 .1 .2
2 3 4 5 6 7 8 9 10 11 12 13 14 15									 	 .5 .4 .9 .8 1.2	 .0 .0 .0 .0	1 .12 .1 .2 .3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18										 .5 .4 .9 .8 1.2		1 .12 .1 .2 .3 .4
2 3 4 5 6 7 8 9 10 11 12 13 14 15										 .5 .4 .9 .8 1.2	 .0 .0 .0 .0	1 .12 .1 .2 .3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20										 .5 .4 .9 .8 1.2 1.0 1.5 1.7 2.3		1 -12 -1 -2 -1 -2 -1 -2 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20										 .5 .4 .9 .8 1.2 1.0 1.5 1.7 2.3 1.9		1 .12 .1 .2 .3 .4 .8 .7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22										 .5 .4 .9 .8 1.2 1.0 1.5 1.7 2.3 1.9		1 -1 -12 -1 -2 -1 -2 -3 -4 -8 -7 -9 -9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24										 .5 .4 .9 .8 1.2 1.0 1.5 1.7 2.3 1.9		1 .12 .1 .2 .3 .4 .8 .7 .9 .9 1.4 1.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23										 .5 .4 .9 .8 1.2 1.0 1.5 1.7 2.3 1.9		1 -12 -1 2 -1 2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25										 .5 .4 .9 .8 1.2 1.0 1.5 1.7 2.3 1.9 2.1 1.4 3.7 2.4 3.8		 .1 .1 .2 .1 .2 .3 .4 .8 .7 .9 .9 1.4 1.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24										 .5 .4 .9 .8 1.2 1.0 1.5 1.7 2.3 1.9 2.1 1.4 3.7 2.4	 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28										 .5 .4 .9 .8 1.2 1.0 1.5 1.7 2.3 1.9 2.1 1.4 3.7 2.4 3.8 2.5 2.8 3.0		
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29										 .5 .4 .9 .8 1.2 1.0 1.5 1.7 2.3 1.9 2.1 1.4 3.8 2.5 2.8 3.0 3.7		
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30										 .5 .4 .9 .8 1.2 1.0 1.5 1.7 2.3 1.9 2.1 1.4 3.7 2.4 3.8 3.0 3.7 4.5		
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29										 .5 .4 .9 .8 1.2 1.0 1.5 1.7 2.3 1.9 2.1 1.4 3.8 2.5 2.8 3.0 3.7		
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30										 .5 .4 .9 .8 1.2 1.0 1.5 1.7 2.3 1.9 2.1 1.4 3.7 2.4 3.8 3.0 3.7 4.5		1 .12 .1 .2 .2 .3 .4 .8 .7 .9 .9 1.4 1.1 1.4 1.0 1.4 1.0 1.4 1.9 2.5

393647105425317 SOUTH CLEAR CREEK ABOVE NAYLOR CREEK NEAR GEORGETOWN, CO--Continued

TEM ENTITIES, WITTER (ELECTOR TO SEE TEMBER)												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		1	AUGUST		2	SEPTEMBE	R
1 2 3 4 5	6.3 6.0 7.6 8.6 7.4	1.2 1.2 1.2 2.4 2.6	3.5 3.6 4.4 5.6 4.8	11.6 12.0 12.0 12.0 10.2	3.8 2.6 3.2 4.3 3.9	6.8 6.7 7.1 7.5 6.5	12.4 12.2 13.9 13.9 9.9	6.5 7.1 5.6 7.1 7.9	9.2 9.4 8.9 9.5 9.0	11.0 12.9 12.4 12.8 12.6	5.6 7.1 5.8 6.6 5.1	8.0 9.1 8.5 9.3 8.1
6 7 8 9 10	5.3 7.1 5.1 5.7 7.3	2.3 2.0 2.6 1.3 2.7	3.9 4.1 3.8 3.5 4.7	10.6 12.2 9.1 10.1 11.0	4.2 3.4 4.6 3.5 4.0	6.5 7.1 6.5 6.3 7.0	7.9 9.5 12.0 9.3 10.6	5.9 4.4 4.7 5.4 7.0	7.0 6.8 7.9 7.2 8.2	10.3 11.7 11.1 10.3 9.1	5.5 3.5 3.0 3.9 3.5	7.3 6.8 6.3 6.6 6.2
11 12 13 14 15	8.0 8.6 7.2 8.1 9.7	2.1 2.6 1.3 3.8 2.3	4.8 5.1 4.9 5.6 5.6	8.2 11.1 12.5 13.5 14.0	4.9 3.6 4.1 3.7 4.4	6.5 6.7 7.5 7.9 8.4	9.8 10.7 11.7 9.4 12.9	4.4 3.3 4.2 4.6 4.5	6.6 6.3 7.0 6.6 7.7	9.6 10.9 10.6 10.0 8.9	4.5 4.9 2.7 3.7 3.6	7.0 7.0 6.1 6.3 6.0
16 17 18 19 20	7.6 9.5 11.7 11.8 11.7	3.3 3.6 3.8 5.2 4.6	5.3 6.1 6.9 8.0 7.7	10.7 10.0 9.6 9.4 10.1	4.7 4.7 4.6 5.0 5.2	7.5 7.2 6.8 7.3 7.6	12.2 10.0 11.1 10.6 12.5	4.4 4.8 5.8 4.3 4.1	7.7 7.3 7.8 6.9 7.5	8.9 8.9 8.8 8.7 7.1	4.3 2.5 4.1 4.1	6.0 5.3 6.1 6.1 5.5
21 22 23 24 25	11.0 12.5 9.8 9.7 11.6	4.4 5.1 5.1 4.1 4.4	7.5 8.2 7.2 6.6 7.2	11.1 9.8 10.2 14.7 11.5	4.4 5.1 5.5 5.7 5.8	7.5 7.5 7.9 9.3 8.7	9.5 11.1 12.2 12.2 9.7	4.8 4.6 4.4 4.8 5.5	6.7 7.5 7.8 7.9 7.5	7.4 7.4 4.9 8.2 8.2	4.5 3.4 2.7 .6 .2	5.5 4.9 3.7 3.8 4.0
26 27 28 29 30 31	12.2 9.8 10.6 10.0 12.5	4.7 4.6 4.3 3.9 3.3	7.8 7.1 7.0 6.7 7.2	11.2 10.3 9.2 11.2 14.2 11.0	5.7 7.1 6.8 7.3 7.8 7.5	8.1 8.3 7.7 8.9 10.2 9.4	12.4 12.6 13.4 12.3 10.1 9.6	6.1 5.4 5.9 5.8 4.7 4.9	8.6 8.4 9.0 8.2 7.3 7.2	8.2 9.2 7.6 7.4 8.2	3.6 3.4 1.1 .3 1.1	5.7 5.7 4.0 3.3 4.1
MONTH	12.5	1.2	5.8	14.7	2.6	7.6	13.9	3.3	7.8	12.9	. 2	6.1

393647105425317 SOUTH CLEAR CREEK ABOVE NAYLOR CREEK NEAR GEORGETOWN, CO--Continued PRECIPITATION RECORDS

PERIOD OF RECORD.--July 1996 to September 1997 (discontinued), seasonal records only.

GAGE.--Tipping-bucket rain gage (no wind shields used) with satellite telemetry. Elevation of gage is 10,710 ft above sea level, from topographic map.

REMARKS .-- Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 0.74 inches, Sept. 3, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall during period of seasonal operation, 0.74 inches, Sept. 3.

	PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY SUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	.00						.00	.05	.00	.00	.06	.20	
2	.00						.00	.10	.00	.00	.04	.09	
3	.00						.17	.03	.00	.00	.01	.74	
4	.00						.02	.00	.07	.00	.08	.02	
5	.00						.00	.00	.01	.00	.15	.00	
6	.00						.00		.65	.00		.03	
7	.00						.02		. 47	.14		.00	
8	.00						.00	.00	.35	.01		.00	
9	.00						.03	.00	.12	.02		.00	
10	.00						.00		.05	.02		.00	
11	.00						.00		.22	.03		.05	
12	.00						.00		.00	.00	.04	.00	
13	.00						.00	.00	. 44	.00	.02	.00	
14	.00						.03	.03	.14	.00	.01	.00	
15	.00						.20	.03	.00	.00	.00	.07	
16	.00						.27	.00	.11	.01	.00	.05	
17	.00						.25	.00	.00	.09	.01	.00	
18	.03						.05	.01	.00	.21	.08	.01	
19	.11						.00	.10	.00	.03	.01	.20	
20	.00						.00	.06	.00	.00	.00	. 29	
21	.00						.05	.27	.13	.00	.06	.30	
22	.02						.09	.33	.07	.00	.00	.02	
23	.01						.18	.00	.17	.08	.00	.06	
24	.00						.00	.20	.01	.00	.14	.00	
25	.00						.03	.00	.00	.00	.12	.00	
26	.00						.05	.03	.01	.13	.05	.05	
27	.05						.40	.00	.00	.27	.17	.00	
28	.04						.13	.04	.01	.22	.05	.00	
29	.01						.16	.26	.00	.10	.00	.00	
30	.00						.14	.02	.00	.07	.02	.00	
31	.01							.00		.08	.04		
TOTAL	0.28						2.27		3.03	1.51		2.18	

06714400 SOUTH CLEAR CREEK ABOVE LOWER CABIN CREEK RESERVOIR NEAR GEORGETOWN, CO

LOCATION (REVISED).--Lat 39°38'47", long 105°42'23", (unsurveyed), T.5 S., R.74 W., Clear Creek County, Hydrologic Unit 10190004, on right bank, 0.5 mi south of Lower Cabin Creek Reservoir, and 4.0 mi south of Georgetown.

DRAINAGE AREA.--Not determined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1994 to September 1997 (discontinued).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 10,100 ft above sea level, from topographic map. Prior to Oct. 22, 1996, at site 0.5 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. No known diversions upstream of station.

KEMAN	XXSKCC	orus good	cacept 10.	Cstilliated	daily disc	marges, v	willen are p	001. INO K	iowii uiv	cisions ups	stream or	station.
			DISCH	ARGE, CUBIC	C FEET PER		WATER YEAI MEAN VALU		1996 TO SE	EPTEMBER 19	997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	6.9 6.5 6.1 4.7 4.4	e5.0 e5.0 e5.0 e5.0 e5.0	e4.0 e4.0 e4.0 e4.0 e4.0	e3.5 e3.5 e3.5 e3.5 e3.5	e3.0 e3.0 e3.0 e3.0 e3.0	e2.9 e2.9 e2.8 e2.9 e2.9	e4.5 e4.5 e4.5 e4.5 e4.5	4.8 4.6 4.9 5.9 7.5	42 45 45 47 46	42 40 39 38 37	26 26 26 26 26	17 17 19 18 16
6 7 8 9 10	4.3 4.2 e4.3 e4.3 e4.4	e5.4 e5.9 e5.7 e5.4 e5.2	e4.0 e4.0 e4.0 e4.0 e4.0	e3.5 e3.5 e3.5 e3.5 e3.5	e3.0 e3.0 e3.0 e3.0 e3.0	e3.0 e3.0 e3.0 e3.0 e3.0	e4.5 e4.5 e4.5 e4.5 e4.5	9.1 11 13 15 18	45 54 51 47 45	36 36 35 34 33	27 28 26 26 30	16 15 15 14 14
11 12 13 14 15	e4.6 e4.7 e4.9 e5.0 e5.0	e5.1 e5.0 e5.0 e5.0 e5.0	e4.0 e4.0 e4.0 e4.0 e4.0	e3.5 e3.5 e3.5 e3.4 e3.3	e3.0 e3.0 e3.0 e3.0 e3.0	e3.0 e3.0 e3.0 e3.0 e3.0	e4.5 e4.3 e4.1 e4.0 e4.0	20 19 22 27 31	46 46 49 51 48	32 30 29 29 28	27 26 26 26 25	13 13 13 12 12
16 17 18 19 20	e5.0 e5.0 e5.0 e5.0 e5.0	e5.0 e5.0 e4.7 e4.6 e4.5	e3.9 e3.8 e3.8 e3.7 e3.7	e3.2 e3.1 e3.1 e3.0 e3.0	e3.0 e3.0 e3.0 e3.0 e3.0	e3.0 e3.1 e3.1 e3.2 e3.4	e4.0 e4.2 4.7 6.4 7.8	37 41 43 43 40	48 47 47 47 48	28 28 27 27 27	24 24 23 22 22	12 11 11 11 12
21 22 23 24 25	e5.0 e5.0 e5.0 e5.0 e5.0	e4.4 e4.3 e4.2 e4.1 e4.0	e3.6 e3.6 e3.5 e3.5 e3.5	e3.0 e3.0 e3.0 e3.0 e3.0	e3.0 e3.0 e3.0 e3.0 e3.0	e3.5 e3.6 e3.8 e3.9 e4.0	7.2 5.4 5.1 9.9 ell	39 40 38 38 35	49 49 50 50 49	26 25 25 24 24	21 21 20 20 21	11 11 11 10 9.5
26 27 28 29 30 31	e5.0 e5.0 e5.0 e5.0 e5.0	e4.0 e4.0 e4.0 e4.0	e3.5 e3.5 e3.5 e3.5 e3.5	e3.0 e3.0 e3.0 e3.0 e3.0 e3.0	e3.0 e3.0 e3.0	e4.0 e4.0 e4.0 e4.0 e4.2	e9.0 e7.0 5.2 5.2 5.0	31 26 24 26 29 35	48 46 45 43 43	24 25 26 25 27 25	20 20 19 18 18	9.2 8.9 8.7 8.6 8.4
TOTAL MEAN MAX MIN AC-FT STATIS	154.3 4.98 6.9 4.2 306 TICS OF M	142.5 4.75 5.9 4.0 283	117.6 3.79 4.0 3.5 233 AN DATA F	100.6 3.25 3.5 3.0 200	84.0 3.00 3.0 3.0 167 EARS 1995	103.2 3.33 4.2 2.8 205	163.0 5.43 11 4.0 323 BY WATER	777.8 25.1 43 4.6 1540 YEAR (WY)	1416 47.2 54 42 2810	931 30.0 42 24 1850	727 23.5 30 17 1440	377.3 12.6 19 8.4 748
MEAN MAX (WY) MIN (WY)	6.16 8.18 1996 4.98 1997	4.82 5.41 1996 4.29 1995	3.75 4.46 1996 3.01 1995	2.82 3.36 1996 1.85 1995	2.59 3.00 1997 1.81 1995	2.76 3.33 1997 2.02 1995	3.72 5.43 1997 1.98 1995	18.6 25.1 1997 6.58 1995	47.0 64.2 1995 29.5 1996	36.8 56.1 1995 24.4 1996	19.5 23.5 1997 11.5 1996	10.9 12.9 1995 7.22 1996
SUMMAR	Y STATIST	ICS	FOR	1996 CALEN	DAR YEAR	F	OR 1997 WA	ATER YEAR		WATER YE	ARS 1995	- 1997
LOWEST HIGHEST LOWEST ANNUAL	MEAN T ANNUAL ANNUAL M T DAILY M DAILY ME SEVEN-DA	EAN EAN AN Y MINIMUM		3775.5 10.3 36 e2.5 2.6	May 17 Mar 11 Mar 5		5094.3 14.0 54 e2.8 2.9 59	Jun 7 Mar 3 Feb 27 Jun 7		13.3 15.3 10.7 107 a 1.6 1.6 bNot de	Feb	1995 1996 18 1995 4 1995 4 1995
INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				7490 30 5.0 3.0			1.70 10100 40 5.0 3.0			C3.43 9660 33 5.1 2.2	Jun :	19 1995

e-Estimated. a-Also occurred Feb 5-13, 1995 b-Probably occurred Jun 19, 1995. c-Site and datum then in use.

06714400 SOUTH CLEAR CREEK ABOVE LOWER CABIN CREEK RESERVOIR NEAR GEORGETOWN, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1995 to September 1997 (discontinued).

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: May 1995 to September 1997 (discontinued). WATER TEMPERATURE: May 1995 to September 1997 (discontinued).

INSTRUMENTATION.--Water-quality monitor with satellite telemetry since May 1995.

REMARKS.--Water temperature records are good. Specific conductance records are good, except the period July 8 to Aug. 12, which is fair.

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum 99 microsiemens, April 22, 1996; minimum 44 microsiemens, Oct. 23-24, 1995. WATER TEMPERATURE: Maximum 14.4°C, Aug. 1 and 12, 1996; minimum 0.0°C, many days during winter months.

EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 96 microsiemens, May 2, 3; minimum, 48 microsiemens June 23. WATER TEMPERATURE: Maximum, 14.3°C, Aug. 28; minimum, 0.10°C, May 1-3.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DE	CEMBER			JANUARY	•
1	72	70	71									
2	72	70	71									
3	72	69	71									
4	72	71	71									
5	73	71	72									
6	72	70	71									
7	72	69	71									
8												
9												
10												
11												
12												
13												
14												
15												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
3 L												
MONTH												

06714400 SOUTH CLEAR CREEK ABOVE LOWER CABIN CREEK RESERVOIR NEAR GEORGETOWN, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAI		FEBRUARY	PIDAN	MAA	MARCH	HEAN	MAX	APRIL	PIEAN	IIAX	MAY	PIEAN
1 2										95 96	89 88	90 91
3										96	88	92
4 5										95 91	87 85	90 89
6										89	84	86
7										85	81	84
8 9										84 82	79 76	82 79
10										78	72	75
11										76	71	72
12										76	72	75
13 14										76 71	67 66	73 69
15										71	61	67
16										67	59	63
17										64	53	60
18 19										60 60	54 54	57 57
20										61	55	59
0.1										C 4		
21 22										64 64	60 60	62 62
23										67	59	64
24										65	59	63
25										66	61	64
26 27										67 69	62 66	65 68
28										70	68	69
29										70	63	68
30 31										67 66	59 53	64 61
MONTH										96	53	72
MONTH										90	33	12
		JUNE			JULY		I	AUGUST		\$	SEPTEMBEI	₹
1	60	53	57	54	52	53	53	52	53	67	58	61
2	59	53 52	56	54	52 52	53	53 53	52 52	53	67 62	58 60	61 61
		53			52		53	52		67	58	61 61 62
2	59 59	53 52 54	56 57	54 54	52 52 51	53 53	53 53 55	52 52 52	53 53	67 62 69	58 60 57	61 61
2 3 4	59 59 60	53 52 54 54	56 57 57	54 54 54	52 52 51 52	53 53 53	53 53 55 54	52 52 52 53	53 53 53	67 62 69 67	58 60 57 63	61 61 62 64
2 3 4 5 6 7	59 59 60 59 61 61	53 52 54 54 54 57	56 57 57 57 60 58	54 54 54 54 54 55	52 52 51 52 52 52 51	53 53 53 53 53	53 53 55 54 54 54	52 52 52 53 53 53	53 53 53 54 54	67 62 69 67 64 64	58 60 57 63 62 62	61 62 64 63 63
2 3 4 5 6 7 8	59 59 60 59 61 61 60	53 52 54 54 54 57 54 55	56 57 57 57 60 58 58	54 54 54 54 54 55 55	52 52 51 52 52 52 51 51	53 53 53 53 53 53 53	53 53 55 54 54 54 54 54	52 52 52 53 53 53 53	53 53 53 54 54 54 54	67 62 69 67 64 64 64	58 60 57 63 62 62 62 63	61 62 64 63 63 63
2 3 4 5 6 7	59 59 60 59 61 61	53 52 54 54 54 57	56 57 57 57 60 58	54 54 54 54 54 55	52 52 51 52 52 52 51	53 53 53 53 53	53 53 55 54 54 54	52 52 52 53 53 53	53 53 53 54 54	67 62 69 67 64 64	58 60 57 63 62 62	61 62 64 63 63
2 3 4 5 6 7 8 9	59 59 60 59 61 61 60 62	53 52 54 54 57 55 55	56 57 57 57 60 58 58 59	54 54 54 54 55 55 55	52 52 51 52 52 51 51 51 53	53 53 53 53 53 53 53 53 54	53 53 55 54 54 54 54 54 55	52 52 52 53 53 53 53 53	53 53 54 54 54 54 54	67 62 69 67 64 64 64 64	58 60 57 63 62 62 62 63 63	61 62 64 63 63 63 63
2 3 4 5 6 7 8 9 10	59 59 60 59 61 61 60 62 63 63	53 52 54 54 54 57 55 56 58	56 57 57 57 60 58 58 59 61 61	54 54 54 54 55 55 55 55	52 52 51 52 52 51 51 51 53 54	53 53 53 53 53 53 53 54 54 54	53 55 54 54 54 54 55 55 55	52 52 53 53 53 53 53 53 53 53	53 53 53 54 54 54 54 54 54 54 54	67 62 69 67 64 64 64 64 64 65	58 60 57 63 62 62 63 63 63 63	61 62 64 63 63 63 63 64 64
2 3 4 5 6 7 8 9 10 11 12 13	59 59 60 59 61 61 62 63 62 62	53 54 54 54 57 556 58 59 58	56 57 57 57 60 58 58 59 61 61 61 59	54 54 54 55 55 55 55 55 55 55	52 52 51 52 52 52 51 51 51 53 54 54 54	53 53 53 53 53 53 54 54 55 55	53 55 54 54 54 55 55 54 55 55 55 55 55 55	52 52 53 53 53 53 53 53 53 53 53	53 53 54 54 54 54 54 54 54 55	67 62 69 67 64 64 64 64 65 65	58 60 57 63 62 62 63 63 63 63 64	61 62 64 63 63 63 63 64 64 64
2 3 4 5 6 7 8 9 10	59 59 60 59 61 61 60 62 63 63	53 52 54 54 54 57 55 56 58	56 57 57 57 60 58 58 59 61 61	54 54 54 54 55 55 55 55	52 52 51 52 52 51 51 51 53 54	53 53 53 53 53 53 53 54 54 54	53 55 54 54 54 54 55 55 55	52 52 53 53 53 53 53 53 53 53	53 53 53 54 54 54 54 54 54 54 54	67 62 69 67 64 64 64 64 64 65	58 60 57 63 62 62 63 63 63 63	61 62 64 63 63 63 63 64 64
2 3 4 5 6 7 8 9 10 11 12 13 14 15	59 59 60 59 61 61 60 62 63 63 62 62 60 60	53 54 54 54 57 55 56 58 59 58 55 50	56 57 57 57 60 58 58 59 61 61 59 58	54 54 54 55 55 55 55 55 55 55 55 55	52 51 52 52 51 51 51 53 54 54 54 54 54	53 53 53 53 53 53 54 54 55 55 55	53 554 54 54 555 54 555 555 555 555 555	52 52 52 53 53 53 53 53 53 53 53 53 54 54 54	53 53 54 54 54 54 54 54 55 55 55	67 62 69 67 64 64 64 64 65 65 65 65	58 60 57 63 62 62 63 63 63 63 64 64	61 62 64 63 63 63 64 64 64 65 65
2 3 4 5 6 7 8 9 10 11 12 13 14	59 59 60 59 61 61 60 62 63 63 62 62 60	53 54 54 54 57 54 55 56 58 58 55 56	56 57 57 57 57 60 58 59 61 61 61 59 58	54 54 54 55 55 55 55 56 56	52 51 52 52 51 51 51 53 54 54 54 54	53 53 53 53 53 53 53 54 54 54 55 55	53 55 54 54 54 55 55 55 55	52 52 53 53 53 53 53 53 54 54	53 53 54 54 54 54 54 54 55 55	67 62 69 67 64 64 64 64 65 65	58 60 57 63 62 62 63 63 63 63 63 64	61 62 64 63 63 63 64 64 64 65
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	59 59 60 59 61 61 60 62 63 62 62 60 60 60	532 544 554 574 556 555 568 555 555 555	56 57 57 57 60 58 58 59 61 61 59 58 58 59	5445555 556665 5555 556665 55666	52 51 52 51 52 51 51 53 54 54 54 54 54 54 54	53 53 53 53 53 53 54 54 55 55 55 55 55 55	53 555 54 54 555 555 555 555 555 556 57	52 52 52 53 53 53 53 53 53 53 53 54 54 54 54	53 53 53 54 54 54 54 54 55 55 55 55 55	67 62 69 67 64 64 64 64 65 65 65 65 66	58 60 57 63 62 62 63 63 63 63 64 64 64	61 62 64 63 63 63 64 64 65 65
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	59 59 60 59 61 61 60 62 63 62 62 60 60 60 60 59	53 54 54 55 56 57 55 56 58 59 55 55 55 55 55 55 55 55 55 55 55 55	56 57 57 57 60 58 58 59 61 61 61 59 58 58 59	5445555 5566655 566665 55555	52 51 52 51 52 51 51 53 54 54 54 54 54 54 54 54	53 53 53 53 53 53 54 54 55 55 55 55 55	53 55 54 54 54 55 55 55 55 55 57 57	52 52 52 53 53 53 53 53 53 53 53 54 54 54 54 54 55	53 53 54 54 54 54 54 55 55 55 55 55 55	67 62 69 67 64 64 64 64 65 65 65 66 67	58 60 57 63 62 62 63 63 63 64 64 64	61 62 64 63 63 63 64 64 64 65 65
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	59 59 60 59 61 61 60 62 63 62 62 60 60 60 59 57	53 54 54 54 57 55 56 58 59 56 55 50 54 55 51	56 57 57 57 60 58 58 59 61 61 59 58 58 59 58 58 59 58 59 58 59 58 58 59 58 59 59 59 58 59 59 59 59 59 59 59 59 59 59 59 59 59	5444 55555 55555 55555 55555 55555 55555	522 511 522 511 513 54 544 544 544 544 544 544 544 544 544	53 53 53 53 53 53 54 54 55 55 55 55 55 55 55	53 555 54 54 555 555 555 555 577 577	52 52 52 53 53 53 53 53 53 53 54 54 54 54 54 55	53 53 53 54 54 54 54 55 55 55 55 55 56 56	67 62 69 67 64 64 64 65 65 65 65 67 	58 60 57 63 62 62 63 63 63 63 64 64 64 64	61 62 64 63 63 63 63 64 64 65 65
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	59 59 60 59 61 61 60 62 63 62 62 60 60 60 59 57	53 54 54 54 57 54 55 56 58 59 58 55 55 55 55 55 55 55 55 55 55 55 55	56 57 57 57 60 58 58 59 61 61 59 58 58 59 58 59 58 59 58 59 57 57 57 57 57 57 57 57 57 57 57 57 57	54444 55555 55555 55555 55555 55555 55555 5555	522 512 522 511 513 54 544 544 544 544 544 544 544 544	53 53 53 53 53 54 54 55 55 55 55 55 55 55	53 55 54 54 54 55 55 55 55 55 57 57	52 52 52 53 53 53 53 53 53 53 53 54 54 54 54 55 55 56 56	53 53 53 54 54 54 54 54 55 55 55 55 55 56 56	67 62 69 67 64 64 64 64 65 65 65 65 66	58 60 57 63 62 62 63 63 63 64 64 64 64	61 62 64 63 63 63 64 64 65 65 66 66
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	59 59 60 59 61 61 60 62 63 62 62 60 60 60 59 57	53 54 54 54 57 55 56 58 59 56 55 50 54 55 51	56 57 57 57 60 58 58 59 61 61 59 58 58 59 58 58 59 58 59 58 59 58 58 59 58 59 59 59 58 59 59 59 59 59 59 59 59 59 59 59 59 59	5444 55555 55555 55555 55555 55555 55555	522 511 522 511 513 54 544 544 544 544 544 544 544 544	53 53 53 53 53 53 54 54 55 55 55 55 55 55 55	53 555 54 54 555 555 555 555 577 577	52 52 52 53 53 53 53 53 53 53 54 54 54 54 54 55	53 53 53 54 54 54 54 55 55 55 55 55 56 56	67 62 69 67 64 64 64 65 65 65 65 67 	58 60 57 63 62 62 63 63 63 63 64 64 64 64	61 62 64 63 63 63 63 64 64 65 65
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	59 59 60 59 61 61 60 62 63 62 62 60 60 60 59 57 56 56 55 55	53 54 54 54 57 556 58 59 58 555 51 51 53 54 55 51 51 51 51 51 51 51 51 51 51 51 51	56 57 57 57 60 58 58 59 61 61 59 58 58 59 58 59 58 59 59 58 59 59 59 59 59 59 59 59 59 59 59 59 59	54444 55555 55555 55555 55555 55555	522 511 522 511 534 544 544 544 544 544 544 544 544	53 53 53 53 53 53 54 55 55 55 55 55 55 55 55 55	533 554 544 555 555 555 555 557 57 57 58 59	52 52 52 53 53 53 53 53 53 53 53 54 54 54 54 55 55 56 56 56 56 57	53 53 53 54 54 54 54 54 55 55 55 55 55 56 56 57 57 58	67 62 69 67 64 64 64 64 65 65 65 65 66 67	58 60 57 63 62 62 63 63 63 64 64 64 65 	61 62 64 63 63 63 64 64 65 65 66 66 66
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	59 59 60 59 61 61 60 62 63 62 62 60 60 60 59 57	53 54 54 54 57 55 56 58 59 58 55 55 51 51 53 54 54 55 55 55 56 56 56 56 57 57 57 57 57 57 57 57 57 57 57 57 57	56 57 57 57 60 58 58 59 61 61 59 58 58 59 58 58 59 58 58 59 58 58 59 58 58 58 58 58 58 58 58 58 58 58 58 58	54444 55555 55555 55555 55555 55555 55555 5555	522 511 522 511 534 544 544 544 544 544 544 544	53 53 53 53 53 53 54 54 55 55 55 55 55 55 55 55	5335544 554 544555 55555 5555 556777 57858	52 52 52 53 53 53 53 53 53 53 54 54 54 54 54 55 56 56 56	53 53 53 54 54 54 54 55 55 55 55 55 56 56 57 57	67 62 69 67 64 64 64 65 65 65 65 67 	58 60 57 63 62 62 63 63 63 63 64 64 64 67	61 62 64 63 63 63 63 64 64 65 65
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	59 59 60 59 61 61 60 62 63 62 62 60 60 60 59 57 56 56 55 55 55	53 54 54 54 55 56 58 59 58 55 55 55 51 51 53 54 55 55 55 55 55 55 55 55 55 55 55 55	56 57 57 57 60 58 58 59 61 61 59 58 58 58 59 58 59 58 59 59 57 57 57 57 57 57 57 57 57 57 57 57 57	54444 555555 555555 555555 555555 555555	522 511 522 511 534 544 544 544 544 544 554 544 554 554	53 53 53 53 53 53 54 54 55 55 55 55 55 55 55 55 55 55 55	53 55 54 54 55 55 55 55 55 55 55 57 57 57 58 59 59	52 52 52 53 53 53 53 53 53 53 53 54 54 54 54 55 56 56 56 56 57 57	53 53 53 54 54 54 54 55 55 55 55 55 56 56 56 57 57 58 58	67 62 69 67 64 64 64 64 65 65 65 66 67 	58 60 57 63 62 62 63 63 63 64 64 64 65 	61 62 64 63 63 63 64 64 64 65 65 65
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27	59 59 60 59 61 61 60 62 63 62 62 60 60 60 59 57 56 55 55 55	53 54 54 54 57 55 56 58 59 58 55 55 55 55 55 55 55 55 55 55 55 55	56 57 57 57 60 58 58 59 61 61 59 58 58 59 58 55 55 55 54 54 54 54	54444 455555 566665 666666 555555 55	522 512 522 511 534 544 544 554 544 554 544 554 554 554	53 53 53 53 53 53 53 54 54 55 55 55 55 55 55 55 55 55 55 55	53 55 54 54 54 55 55 55 55 55 55 57 57 58 59 59 59	52 52 52 53 53 53 53 53 53 53 54 54 54 54 55 55 56 56 57 57 57	53 53 53 54 54 54 54 55 55 55 55 55 56 56 56 56 57 57 57 58 58 59	67 62 69 67 64 64 64 65 65 65 65 67 	58 60 57 63 62 62 63 63 63 64 64 64 65 	61 62 64 63 63 63 63 64 64 65 65
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	59 59 60 59 61 61 60 62 63 62 62 60 60 59 57 56 55 55 55 55	532 544 554 556 555 555 555 555 555 555 555	56 57 57 57 60 58 58 59 61 61 59 58 58 59 58 59 55 55 55 54 54 54 53 53 53 53 54 54 55 55 55 55 55 55 55 55 55 55 55	54444 455555 5566655 666666 555555 55555	522 511 522 511 534 544 544 545 544 544 554 554 554 554	53 53 53 53 53 53 54 55 55 55 55 55 55 55 55 55 55 55 55	5335544 5555555555555555555555555555555	52 52 52 53 53 53 53 53 53 53 54 54 54 54 55 56 56 56 57 57 57 57 57 58 59 59	53 53 53 54 54 54 54 55 55 55 55 55 56 56 57 57 57 58 58 59 59	67 62 69 67 64 64 64 64 65 65 65 66 67 	58 60 57 63 62 62 63 63 63 63 64 64 64 65 	61 62 64 63 63 63 63 64 64 64 65 65 65
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	59 59 60 59 61 61 60 62 63 62 62 62 60 60 60 59 57 56 55 55 55 55 54 54 54	53 54 54 55 56 57 55 56 58 59 58 55 55 55 55 55 55 55 55 55 55 55 55	56 57 57 57 60 58 58 59 61 61 59 58 58 59 55 55 54 54 54 53 53 53 53	54444 455555 566665 666666 555555 555544	522 512 52 511 511 511 511 511 511 511 5	53 53 53 53 53 53 53 54 54 55 55 55 55 55 55 55 55 55 55 55	5335544 544555 55555 55555 56777 5788899 590060 60060	52 52 52 53 53 53 53 53 53 53 53 54 54 54 55 56 56 56 57 57 57 57 58 59 59 59 59 59 59 59 59 59 59 59 59 59	53 53 53 54 54 54 54 55 55 55 55 55 56 56 56 57 57 57 58 58 59 59 59	67 62 69 67 64 64 64 64 65 65 65 66 67 	58 60 57 63 62 62 63 63 63 63 64 64 64 65 	61 62 64 63 63 63 63 64 64 64 65 65 65
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	59 59 60 59 61 61 60 62 63 62 62 60 60 59 57 56 55 55 55 55	532 544 554 556 555 555 555 555 555 555 555	56 57 57 57 60 58 58 59 61 61 59 58 58 59 58 59 55 55 55 54 54 54 53 53 53 53 54 54 55 55 55 55 55 55 55 55 55 55 55	54444 455555 5566655 666666 555555 55555	522 511 522 511 534 544 544 545 544 544 554 545 544 554 554 554 554 554 554 554 554 554 554 554 554 554 554 555 554 555 554 555 554 555 554 555 554 555 554 555 554 555 554 555 554 555 554 555 554 555 55 5	53 53 53 53 53 53 54 55 55 55 55 55 55 55 55 55 55 55 55	5335544 5555555555555555555555555555555	52 52 52 53 53 53 53 53 53 53 54 54 54 54 55 56 56 56 57 57 57 57 57 58 59 59	53 53 53 54 54 54 54 55 55 55 55 55 56 56 57 57 57 58 58 59 59	67 62 69 67 64 64 64 65 65 65 65 67 	58 60 57 63 62 62 63 63 63 63 64 64 64 65 	61 62 64 63 63 63 64 64 64 65 65 65

06714400 SOUTH CLEAR CREEK ABOVE LOWER CABIN CREEK RESERVOIR NEAR GEORGETOWN, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	VEMBER		DE	CEMBER			JANUARY	
1	6.8	2.3	4.7									
2	9.0 8.6	2.2 4.6	5.3 6.1									
4	6.8	2.8	4.9									
5	8.8	2.4	5.2									
6	8.4	2.0	4.9									
7 8	8.6	2.5	5.1									
9												
10												
11												
12												
13 14												
15												
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19 20												
21 22												
23												
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25												
26												
27 28												
29												
30												
31												
MONTH												
		FEBRUARY			MARCH			APRIL			MAY	
1										4.0		1 6
1 2		FEBRUARY			MARCH			APRIL		4.9 5.0	MAY .1 .1	1.6 1.4
2										5.0 6.4	.1 .1 .1	1.4
2 3 4				 			 	 		5.0 6.4 8.0	.1 .1 .1 .4	1.4 2.3 3.6
2										5.0 6.4 8.0 8.0	.1 .1 .1 .4	1.4
2 3 4 5				 						5.0 6.4 8.0 8.0	.1 .1 .4 .5	1.4 2.3 3.6 3.9
2 3 4 5							 			5.0 6.4 8.0 8.0 7.3 7.8	.1 .1 .4 .5	1.4 2.3 3.6 3.9 3.5 3.3
2 3 4 5 6 7 8 9		 		 			=== === === ===		 	5.0 6.4 8.0 8.0 7.3 7.8 7.9	.1 .1 .4 .5	1.4 2.3 3.6 3.9 3.5 3.3 3.0 3.1
2 3 4 5 6 7 8				 			=== === === ===			5.0 6.4 8.0 8.0 7.3 7.8 7.9	.1 .1 .4 .5	1.4 2.3 3.6 3.9 3.5 3.3 3.0
2 3 4 5 6 7 8 9 10						 			 	5.0 6.4 8.0 8.0 7.3 7.8 7.9 8.2 8.1	.1 .1 .4 .5 .7 .8 .2 .2	1.4 2.3 3.6 3.9 3.5 3.3 3.0 3.1 3.0
2 3 4 5 6 7 8 9 10				 						5.0 6.4 8.0 8.0 7.3 7.8 7.9 8.2 8.1	.1 .1 .4 .5 .7 .8 .2 .2 .2	1.4 2.3 3.6 3.9 3.5 3.3 3.0 3.1 3.0
2 3 4 5 6 7 8 9 10						 			 	5.0 6.4 8.0 8.0 7.3 7.8 7.9 8.2 8.1 6.0 7.5	.1 .1 .4 .5 .7 .8 .2 .2 .2	1.4 2.3 3.6 3.9 3.5 3.3 3.0 3.1 3.0
2 3 4 5 6 7 8 9 10				 		 			 	5.0 6.4 8.0 8.0 7.3 7.8 7.9 8.2 8.1	.1 .1 .4 .5 .7 .8 .2 .2 .2	1.4 2.3 3.6 3.9 3.5 3.3 3.0 3.1 3.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15						 			 	5.0 6.4 8.0 8.0 7.3 7.8 7.9 8.2 8.1 6.0 7.5 7.6 6.9 8.6	.1 .1 .4 .5 .7 .8 .2 .2 .2 .2 .2	1.4 2.3 3.6 3.9 3.5 3.3 3.0 3.1 3.0 2.2 2.9 3.1 2.8 3.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15						 			 	5.0 6.4 8.0 8.0 7.3 7.8 7.9 8.2 8.1 6.0 7.5 7.6 6.9 8.6	.1 .1 .4 .5 .7 .8 .2 .2 .2 .2 .2	1.4 2.3 3.6 3.9 3.5 3.3 3.0 3.1 3.0 2.2 2.9 3.1 2.8 3.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18										5.0 6.4 8.0 8.0 7.3 7.8 7.9 8.2 8.1 6.0 7.5 7.6 6.9 8.6	.1 .1 .4 .5 .7 .8 .2 .2 .2 .2 .2 .2 .7	1.4 2.3 3.6 3.9 3.5 3.3 3.0 3.1 2.2 2.9 3.1 2.8 3.2 3.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15						 			 	5.0 6.4 8.0 8.0 7.3 7.8 7.9 8.2 8.1 6.0 7.5 7.6 6.9 8.6	.1 .1 .4 .5 .7 .8 .2 .2 .2 .2 .2	1.4 2.3 3.6 3.9 3.5 3.3 3.0 3.1 3.0 2.2 2.9 3.1 2.8 3.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20										5.0 6.4 8.0 8.0 7.3 7.8 7.9 8.2 8.1 6.0 7.5 7.6 6.9 8.6	.1 .1 .4 .5 .7 .8 .2 .2 .2 .2 .2 .2 .7 .9 .6 .7 .7	1.4 2.3 3.6 3.9 3.5 3.3 3.0 3.1 3.0 2.2 2.9 3.1 2.8 3.2 3.1 3.6 3.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21										5.0 6.4 8.0 8.0 7.3 7.8 7.9 8.2 8.1 6.0 7.5 7.6 6.9 8.6 7.8 7.6 8.2 5.8	.1 .1 .4 .5 .7 .8 .2 .2 .2 .2 .2 .2 .2 .2 .1 .5 .7 .9 .6 .7 .7 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9	1.4 2.3 3.6 3.9 3.5 3.3 3.0 3.1 3.0 2.2 2.9 3.1 2.8 3.2 3.1 3.6 3.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20										5.0 6.4 8.0 8.0 7.3 7.8 7.9 8.2 8.1 6.0 7.5 7.6 6.9 8.6	.1 .1 .4 .5 .7 .8 .2 .2 .2 .2 .2 .2 .7 .9 .6 .7 .7	1.4 2.3 3.6 3.9 3.5 3.3 3.0 3.1 3.0 2.2 2.9 3.1 2.8 3.2 3.1 3.6 3.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24										5.0 6.4 8.0 8.0 7.3 7.8 7.9 8.2 8.1 6.0 7.5 7.6 6.9 8.6 7.8 7.6 8.2 5.8	.1 .1 .1 .4 .5 .7 .8 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2	1.4 2.3 3.6 3.9 3.5 3.3 3.0 3.1 3.0 2.2 2.9 3.1 2.8 3.2 3.1 3.6 3.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23										5.0 6.4 8.0 8.0 7.3 7.8 7.9 8.2 8.1 6.0 7.5 7.6 6.9 8.6 7.6 8.2 5.8	.1 .1 .1 .4 .5 .7 .8 .2 .2 .2 .2 .2 .2 .2 .7 .9 .6 .7 .7 .9 .6 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7	1.4 2.3 3.6 3.9 3.5 3.3 3.0 3.1 3.0 2.2 2.9 3.1 2.8 3.1 3.6 3.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26										5.0 6.4 8.0 8.0 7.3 7.8 7.9 8.2 8.1 6.0 7.5 7.6 6.9 8.6 7.8 7.6 8.2 5.8 6.0 3.9 9.1 5.7 8.3	.1 .1 .1 .4 .5 .7 .8 .2 .2 .2 .2 .2 .2 .2 .7 .9 .6 .7 .7 .9 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	1.4 2.3 3.6 3.9 3.5 3.3 3.0 3.1 3.0 2.2 2.9 3.1 2.8 3.2 3.1 3.6 3.0 3.1 3.6 3.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27										5.0 6.4 8.0 8.0 7.3 7.8 7.9 8.2 8.1 6.0 7.5 7.6 6.9 8.6 7.6 8.2 5.8 6.0 9.1 5.7 8.3	.1 .1 .4 .5 .7 .8 .2 .2 .2 .2 .2 .2 .7 .9 .6 .7 .9 1.0 1.1 1.3 1.0	1.4 2.3 3.6 3.9 3.5 3.3 3.0 2.2 2.9 3.1 2.8 3.2 3.1 3.2 3.1 3.0 3.1 3.0 3.1 3.2 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.0 3.1 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29										5.0 6.4 8.0 8.0 7.3 7.8 7.9 8.2 8.1 6.0 7.5 7.6 6.9 8.6 7.8 7.6 8.2 5.8 6.0 3.9 9.1 5.7 8.3	.1 .1 .1 .4 .5 .7 .8 .2 .2 .2 .2 .2 .2 .2 .7 .9 .6 .7 .7 .9 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	1.4 2.3 3.6 3.9 3.5 3.3 3.0 3.1 3.0 2.2 2.9 3.1 2.8 3.2 3.1 3.6 3.0 3.1 3.6 3.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30										5.0 6.4 8.0 8.0 7.3 7.8 7.9 8.2 8.1 6.0 7.5 7.6 6.9 8.6 7.6 8.2 5.8 6.0 9.1 5.7 8.3 6.3 5.7 6.9 9.9	.1 .1 .4 .5 .7 .8 .2 .2 .2 .2 .2 .2 .2 .2 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	1.4 2.3 3.6 3.9 3.5 3.3 3.0 2.2 2.9 3.1 2.8 3.2 3.1 3.0 3.0 4.2 3.3 3.0 4.2 3.3 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29										5.0 6.4 8.0 8.0 7.3 7.8 7.9 8.2 8.1 6.0 7.5 7.6 6.9 8.6 7.8 7.6 8.2 5.8 6.0 3.9 9.1 5.7 8.3	.1 .1 .1 .4 .5 .7 .8 .2 .2 .2 .2 .2 .2 .2 .7 .7 .9 .6 .7 .7 .9 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	1.4 2.3 3.6 3.9 3.5 3.3 3.0 3.1 2.2 9.3 3.1 2.8 3.2 3.1 3.6 3.0 3.3 3.0 3.1 3.6 3.3 3.6 3.1 3.6 3.3 4.2 3.3 3.6 4.2 3.3 3.6 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2

06714400 SOUTH CLEAR CREEK ABOVE LOWER CABIN CREEK RESERVOIR NEAR GEORGETOWN, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		I	AUGUST		2	SEPTEMBE	R
1 2 3 4 5	9.8 9.0 10.2 10.4 9.1	2.7 2.5 2.2 3.1 3.2	5.6 5.2 5.6 6.2 5.5	10.5 11.0 10.9 10.4 9.2	4.2 3.8 3.9 4.6 4.4	6.5 6.6 6.8 6.9 6.3	12.8 11.3 13.2 13.1 9.7	6.5 7.1 6.1 6.9 7.4	8.7 8.8 8.5 9.0 8.4	11.3 13.2 13.9 13.2 12.1	6.7 7.4 6.8 7.0 6.2	8.6 9.4 9.0 9.4 8.6
6 7 8 9 10	6.0 7.9 5.3 6.7 8.3	3.4 2.9 3.2 2.3 3.3	4.5 4.9 4.2 4.2 5.1	9.6 11.5 7.9 9.1 10.4	4.7 4.3 5.0 4.4 4.8	6.5 7.0 6.4 6.4 7.0	7.6 9.6 12.7 9.9 10.4	6.2 5.2 5.5 6.2 7.0	7.0 7.3 8.3 7.7 8.2	10.7 11.1 11.9 11.6 11.4	6.4 5.1 4.9 5.6 5.3	8.0 7.5 7.6 7.8 7.7
11 12 13 14 15	9.9 9.1 8.3 8.9 10.2	2.8 3.1 2.4 4.0 2.8	5.6 5.5 5.4 5.8	7.9 10.3 11.9 12.7 12.9	5.3 4.8 4.8 4.6 5.0	6.5 6.9 7.5 7.7 8.0	9.8 11.6 11.7 10.8 12.8	5.3 4.8 5.6 5.8 5.9	7.1 7.4 7.8 7.6 8.3	10.4 12.1 12.6 11.8 10.4	6.0 6.1 4.8 5.4	8.0 8.1 7.7 7.9 7.4
16 17 18 19 20	8.0 9.3 10.5 11.1	3.4 3.9 3.9 4.9 4.3	5.3 6.0 6.4 7.2 7.0	10.3 9.8 9.0 9.5 10.0	5.3 5.4 5.5 5.7	7.4 7.2 6.9 7.3 7.6	11.7 10.4 11.3 10.7 12.2	6.0 6.1 6.7 5.9 5.7	8.3 8.0 8.3 7.7 8.1	10.4 10.9 	5.6 4.6 	7.3 7.0
21 22 23 24 25	10.0 11.0 8.7 9.2 9.7	4.2 4.8 4.5 4.1 4.5	6.7 7.3 6.3 6.2 6.5	10.7 10.2 9.9 13.7 11.0	5.2 5.8 6.0 6.1 6.1	7.6 7.6 7.9 9.0 8.3	10.5 11.7 12.4 12.5 10.2	6.2 6.1 6.0 6.4 6.7	7.7 8.2 8.6 8.7	 	 	
26 27 28 29 30 31	10.8 8.5 9.8 10.0 11.2	4.7 4.5 4.4 4.3 4.1	6.9 6.4 6.5 6.7 6.9	10.7 10.0 9.5 10.4 13.9 10.2	6.1 7.1 6.8 7.2 7.3 7.2	8.0 8.0 7.7 8.5 9.5 8.6	12.0 12.5 14.3 12.3 10.4 10.6	7.1 6.5 6.8 6.8 6.1 6.3	8.9 8.9 9.5 8.6 8.0	 		
MONTH	11.2	2.2	5.9	13.9	3.8	7.4	14.3	4.8	8.2			

06714400 SOUTH CLEAR CREEK ABOVE LOWER CABIN CREEK RESERVOIR NEAR GEORGETOWN, CO--Continued PRECIPITATION RECORDS

PERIOD OF RECORD.--July to September 1997 (discontinued).

GAGE.--Tipping-bucket rain gage (no wind shields used) with satellite telemetry. Elevation of gage is 10,100 ft above sea level, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall during period from July to September, 1.24 inches, Sept. 3.

			PF	RECIPITATIO	ON (INCHES	S), WATER Y DAILY S	EAR OCTOI SUM VALUE		SEPTEMBE	R 1997		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											.04	.30
2											.00	.33
3											.52	1.24
4											.00	.00
5											.20	.00
6											. 46	.00
7											.08	.00
8											.00	.00
9											.12	.00
10											.44	.00
11											.04	.05
12											.01	.00
13											.00	.00
14											.01	.00
15										.02	.00	.05
16										.09	.00	.00
17										.90	.01	.00
18										.49	. 24	.01
19										.19	.01	.14
20										.04	.00	.17
21										.01	.02	.13
22										.01	.00	.03
23										.06	.00	.00
24										.00	.14	.00
25										.00	.06	.00
26										.16	.55	.03
27										.28	.15	.00
28										.34	.02	.00
29										.27	.00	.00
30										.16	.07	.00
31										.30	.12	
TOTAL											3.31	2.48

06714600 SOUTH CLEAR CREEK ABOVE LEAVENWORTH CREEK NEAR GEORGETOWN, CO

 $LOCATION.--Lat~39^o41'13", long~105^o41'56", in~NE^{1/4}SW^{1/4}~sec. 20, T.4~S., R.74~W., Clear~Creek~County, Hydrologic~Unit~10190004, on right bank~240~ft~upstream~from~the~confluence~of~Leavenworth~Creek, and~3.1~mi~south~of~Georgetown.$

DRAINAGE AREA.--16.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1994 to September 1997 (discontinued).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,280 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow is entirely regulated by Lower Cabin Creek Reservoir.

			DISCH	IARGE, CUBI	C FEET PER		WATER YEA MEAN VAL		1996 TO SE	EPTEMBER 199	97	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	11 11 11 11 10	7.5 7.0 6.8 6.1 4.6	4.9 5.1 5.2 5.3 5.5	5.1 5.1 5.1 5.0 4.7	4.3 4.3 4.1 4.2	4.0 4.0 3.9 3.9 3.9	4.3 4.3 4.3 4.4 4.3	5.4 5.3 5.4 5.5 5.8	58 67 67 67 72	67 67 60 49 50	29 27 28 26 28	22 22 22 22 22 22
6 7 8 9 10	9.6 9.2 6.9 6.0 8.3	4.6 4.5 4.3 4.2 4.1	5.7 5.7 5.8 5.9 5.9	4.7 4.7 4.7 4.7 4.5	4.2 4.2 4.2 4.2 4.2	3.9 3.9 3.9 3.9	4.2 4.3 4.3 4.4 4.4	6.2 6.5 6.8 8.0 8.2	74 80 90 77 67	54 50 40 44 37	34 40 29 24 26	22 22 22 22 22 22
11 12 13 14 15	8.3 8.4 8.3 8.4 8.3	3.9 3.9 4.1 4.4 4.6	5.9 5.9 5.8 5.7 5.5	4.2 4.2 4.2 4.2	4.2 4.1 4.2 4.2 4.2	4.0 4.0 4.0 4.0 4.1	4.4 4.4 4.2 4.3	8.2 8.0 8.5 10	71 75 90 113 99	40 41 41 39 35	43 37 29 28 24	22 21 21 20 20
16 17 18 19 20	8.5 8.7 8.9 8.9 9.0	4.7 5.0 5.3 5.2 4.5	5.5 5.5 5.5 5.5	4.2 4.1 4.7 4.7	4.1 4.2 4.2 4.1 4.2	4.1 4.1 4.1 4.1 4.1	4.3 4.4 4.5 4.6 4.6	13 14 15 16 17	78 71 73 78 77	33 33 34 40 35	23 23 24 27 26	20 18 19 19
21 22 23 24 25	8.8 8.5 8.2 7.8 7.5	4.5 4.6 4.6 4.6 4.5	5.1 5.5 5.5 5.4 5.4	4.6 4.5 4.5 4.5	4.1 4.0 3.9 3.9 3.8	4.2 4.2 4.2 4.2 4.2	4.8 4.7 4.8 4.9 4.9	18 24 50 62 58	77 89 108 94 70	30 32 32 29 29	24 23 24 25 24	18 18 18 17 17
26 27 28 29 30 31	7.4 7.4 7.3 7.6 7.9 7.9	4.5 4.5 4.6 4.7 4.8	5.4 5.4 5.3 5.3 5.2 5.2	4.5 4.4 4.3 4.4 4.4	3.7 3.9 4.1 	4.3 4.3 4.2 4.2 4.3	4.9 5.1 5.3 5.3 5.4	61 56 42 35 39 47	68 64 65 68 64	25 24 24 32 35 32	24 24 23 22 22	16 16 15 15 15
TOTAL MEAN MAX MIN AC-FT	266.0 8.58 11 6.0 528	145.2 4.84 7.5 3.9 288	170.0 5.48 5.9 4.9 337	140.7 4.54 5.1 4.1 279	115.3 4.12 4.3 3.7 229	126.4 4.08 4.3 3.9 251	137.4 4.58 5.4 4.2 273	677.8 21.9 62 5.3 1340	2311 77.0 113 58 4580	1213 39.1 67 24 2410	832 26.8 43 22 1650	584 19.5 22 15 1160
	rics of M	ONTHLY ME	AN DATA F 6.05	OR WATER Y	TEARS 1995 4.05	- 1997, 7.54	BY WATER	YEAR (WY)	65.2	51.9	25.7	16.1
MEAN MAX (WY) MIN (WY)	10.1 14.4 1996 7.35 1995	8.40 1996 4.84 1997	8.42 1996 4.25 1995	5.08 6.84 1996 3.87 1995	4.17 1996 3.87 1995	11.7 1995 4.08 1997	11.0 1996 4.58 1997	18.7 26.1 1996 8.13 1995	77.0 1997 48.1 1996	77.5 1995 39.0 1996	34.4 1995 15.7 1996	19.5 1997 10.2 1996
SUMMARY	Y STATIST	ics	FOR	1996 CALEN	IDAR YEAR	F	OR 1997 W	ATER YEAR		WATER YEA	ARS 1995	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT ANNUAL 10 PERC	MEAN T ANNUAL M ANNUAL M T DAILY ME DAILY ME SEVEN-DA TANEOUS P	EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		5712.3 15.6 60 3.4 3.5 11330 45 8.3 4.6	Jun 22 Feb 6 Feb 5		6718.8 18.4 113 3.7 3.9 127 5.4 13330 57 6.0 4.1	Jun 14 Feb 26 Feb 21 Jun 15 Jun 15		18.7 21.2 16.6 147 3.4 3.5 215 a5.96 13580 50 8.6 4.0	Feb Feb Jun	1995 1996 24 1995 6 1996 5 1996 23 1995 23 1995

a-Maximum gage height, 6.78 ft, Jun 17, 1995, backwater from debris.

06714600 SOUTH CLEAR CREEK ABOVE LEAVENWORTH CREEK NEAR GEORGETOWN, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1995 to September 1997 (discontinued).

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: May 1995 to September 1997 (discontinued). WATER TEMPERATURE: May 1995 to September 1997 (discontinued).

INSTRUMENTATION.--Water-quality monitor since with satellite telemetry May 1995.

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

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum 117 microsiemens, Aug. 3, 1996; minimum 64 microsiemens, July 21-23, 1995. WATER TEMPERATURE: Maximum 13.9°C, July 24, 1996; minimum 0.0°C, Mar. 5-6, 1997.

EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 116 microsiemens, May 7-8; minimum, 72 microsiemens June 24.

WATER TEMPERATURE: Maximum, 13.4°C, Aug. 3; minimum, 0.0°C, on Mar. 5-6.

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

DAY	MAX	MIN	MEAN									
		OCTOBER		NO	OVEMBER		DI	ECEMBER			JANUARY	
1	90	90	90	94	94	94	96	96	96	101	100	100
2	90	89	90	95	94	94	96	95	95	101	100	100
3	90	89	89	95	94	95	95	95	95	100	99	100
4	90	89	90	98	95	96	95	94	95	100	100	100
5	91	90	90	98	97	98	95	93	95	101	100	101
6	91	90	91	98	97	98	95	94	95	101	101	101
7	92	91	92	98	97	97	95	94	95	102	101	101
8	100	92	94	99	98	98	95	94	95	102	101	102
9	102	93	96	100	98	99	95	94	95	102	102	102
10	95	92	93	100	99	99	95	94	95	102	102	102
11	94	92	93	100	99	100	95	94	95	102	101	101
12	93	92	93	101	100	100	96	95	95	102	101	102
13	93	92	93	100	99	100	96	96	96	103	102	102
14	93	92	92	100	99	99	96	95	96	103	102	103
15	93	92	92	99	97	98	96	95	96	103	102	103
13	23	22	22	22	21	20	50))	50	103	102	103
16	92	90	92	98	96	98	96	95	96	103	103	103
17	92	91	92	98	96	97	96	95	96	103	103	103
18	93	92	93	96	95	95	97	95	96	104	103	103
19	94	93	93	97	95	96	97	97	97	104	104	104
20	94	93	94	98	97	97	97	96	97	105	104	104
21	95	94	94	98	97	97	98	97	97	104	103	104
22	95	94	94	98	97	97	98	97	98	104	103	104
23	95	94	94	98	97	97	99	98	98	104	104	104
24	95	94	95	98	97	97	99	98	98	104	103	104
25	95	94	95	98	97	98	99	99	99	104	104	104
26	95	92	94	98	95	98	99	99	99	104	104	104
27	96	95	95	99	98	98	100	99	99	105	104	104
28	95	95	95	98	98	98	100	99	100	104	103	104
29	95	94	94	98	97	98	100	100	100	104	103	104
30	94	94	94	98	96	97	100	100	100	105	103	104
31	94	94	94	98		97	101	100	100	105	104	104
3 L	94	93	94				101	100	100	105	104	104
MONTH	102	89	93	101	94	97	101	93	97	105	99	103

06714600 SOUTH CLEAR CREEK ABOVE LEAVENWORTH CREEK NEAR GEORGETOWN, CO--Continued SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	:	FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	104 104 104 104 104	104 103 103 103 103	104 104 103 103 103	103 104 103 103	102 103 102 101 102	103 103 103 103 103	105 105 106 106 106	102 102 104 100 104	104 104 105 105	109 108 109 110 111	107 107 106 107 109	108 107 107 108 110
6 7 8 9 10	104 104 104 104 104	102 103 103 103 103	103 103 103 103 103	105 105 106 106 106	103 104 104 105 105	104 105 105 105 105	106 106 106 106 105	104 105 104 104 104	105 105 105 105 104	112 116 116 112 111	110 109 112 110 109	111 112 114 111 110
11 12 13 14 15	103 103 102 102 102	103 102 102 101 102	103 102 102 102 102	106 106 106 105 106	105 105 105 104 104	105 105 105 105 105	105 106 106 107 108	104 100 105 106 106	105 105 106 106 107	110 110 109 109 104	108 109 107 103 103	109 109 108 106 103
16 17 18 19 20	103 104 103 103	102 103 103 103 101	103 103 103 103 102	106 106 106 106 106	105 105 104 104 104	105 105 105 105 105	109 109 109 111 112	106 107 107 108 108	108 108 108 109 110	103 104 104 102 100	102 102 100 97 98	102 102 102 100 99
21 22 23 24 25	103 103 103 103 103	102 102 102 102 102	103 103 103 102 102	106 106 107 105 105	105 105 105 103 104	105 105 105 104 104	112 110 109 108 108	109 108 106 103 106	111 109 108 105 107	100 97 93 89	94 93 87 88 88	98 95 90 88 89
26 27 28 29 30 31	103 103 103 	102 103 100 	103 103 103 	106 106 106 106 106	104 104 104 104 104 104	105 105 105 105 105	109 107 108 108 109	106 106 106 106 107	108 106 107 108 108	89 90 91 92 91 90	87 87 88 91 88 84	88 88 90 91 90 87
MONTH	104	100	103	107	101	105	112	100	107	116	84	101
		JUNE			JULY			AUGUST			SEPTEMBE	IR
1 2 3 4 5	87 83 84 83 81	JUNE 81 80 79 76 77	85 82 82 80 79	77 77 78 80 80	JULY 74 74 75 77 78	76 76 77 79 79	87 87 87 87 87	84 85 84 86 83	85 86 85 86 86	86 87 86 86 86	SEPTEMBE 85 79 85 86 86	86 86 86 86 86
2 3 4	83 84 83	81 80 79 76	82 82 80	77 78 80	74 74 75 77	76 77 79	87 87 87 87	84 85 84 86	86 85 86	86 87 86 86	85 79 85 86	86 86 86 86
2 3 4 5 6 7 8 9	83 84 83 81 80 79 78 80	81 80 79 76 77 76 74 75 77	82 82 80 79 77 77 77	77 78 80 80 79 80 81 81	74 74 75 77 78 75 77 79 78	76 77 79 79 78 79 80 80	87 87 87 87 87 85 83 87	84 85 84 86 83 82 81 82 86	86 85 86 86 84 82 85 86	86 87 86 86 86 86 86	85 79 85 86 86 85 85 85	86 86 86 86 86 86 86
2 3 4 5 6 7 8 9 10 11 12 13 14	83 84 83 81 80 79 78 80 81 80 80 79	81 80 79 76 77 76 74 75 77 78 78 78 78 77	82 82 80 79 77 77 79 79 79 79	77 78 80 80 80 81 81 82 81 81 81 82	74 74 75 77 78 75 77 79 78 80 80 80 80 80	76 77 79 79 78 79 80 80 81 80 81	87 87 87 87 87 85 83 87 87 87 82 84 84 85	84 85 84 86 83 82 81 82 86 82 80 80 83 83	86 85 86 86 82 85 86 86 81 82 83 83	86 87 86 86 86 86 86 86 86 86 87	859566 855555 8466686	86 86 86 86 86 86 86 86 86 86
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	83 84 83 81 80 79 78 80 81 80 80 79 78 78 79 79 79	81 80 79 76 77 76 74 75 77 78 78 78 77 75 76 77	82 82 80 79 77 77 79 79 79 79 79 77 77 77 78 78 78 76	77 78 80 80 80 81 81 82 81 81 82 84 83 84	74 74 75 77 78 75 77 79 78 80 80 80 80 80 80 80 80 80 80 80 80 80	76 77 79 79 78 79 80 80 81 80 81 82 83 83 83 83 83	87 87 87 87 87 85 83 87 87 87 82 84 84 85 86 86 86	84 85 84 86 83 82 81 82 86 82 80 80 80 83 84 85 83 84 85 83 84 86 83 86 86 86 86 86 86 86 86 86 86 86 86 86	86 85 86 86 88 82 85 86 81 82 83 84 85 85 85 85 85 86	86 86 86 86 86 86 86 86 87 87 87 87 87	859 859 886 8855 8855 8866 8866 887	86 86 86 86 86 86 86 86 86 86 86 86 87 88 88 88
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	83 84 83 81 80 79 78 80 81 80 80 79 78 78 77 77 77 77 76 76	81 80 79 76 77 76 74 75 77 78 78 78 77 75 76 77 77 76 73 74 75 74 75 74	82 82 80 79 77 77 79 79 79 78 77 77 78 78 76 75 76 76	77 78 80 80 80 81 81 82 81 81 82 84 83 84 82 83	74 74 75 77 78 75 77 79 78 80 80 80 80 80 80 80 80 80 80 80 80 80	76 77 79 79 78 80 80 81 80 81 82 83 83 83 83 84 84 84	87 87 87 87 87 87 87 87 87 87 82 84 84 85 86 86 84 84 85 85 85 85 85	84 85 84 86 83 82 86 82 80 80 83 83 84 85 83 84 85 83 83 84 85 83 84 85 85 86 86 86 86 86 86 86 86 86 86 86 86 86	86 85 86 86 88 81 82 83 84 85 85 85 85 85 84 85 85 85 85 86 86 86 86 86 86 86 86 86 86 86 86 86	86 86 86 86 86 86 86 87 87 87 87 87 88 88 88 88	859 859 886 8855 8855 8866 8866 8877 88888 88888 88888 88888 88888 88888 8888	86 86 86 86 86 86 86 86 86 86 86 87 88 87 88 88 88 88 88 88 88 88 88 88

06714600 SOUTH CLEAR CREEK ABOVE LEAVENWORTH CREEK NEAR GEORGETOWN, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER			ECEMBER			JANUARY	
4 5	9.7 8.8 9.5	7.3 7.1 7.8 7.4 7.3	7.9 8.0 8.3 8.0	5.7 5.8 5.8 5.4 5.5	3.9 3.8 3.9 3.9 3.7	4.4 4.4 4.6 4.4 4.2	2.8 2.5 2.5 2.1 2.5	1.3 1.2 1.3 .8 1.4	2.2 1.8 1.8 1.5 2.2	3.2 3.8 3.3 2.0 1.8	2.1 2.6 2.0 .9 .7	2.6 3.1 2.7 1.4 1.1
6 7 8 9 10	9.4 9.3 9.8 9.9 9.5	7.1 7.3 7.1 7.2 7.1	7.9 7.9 7.9 7.9 7.8	4.2 3.9 4.9 5.3 5.2	2.6 2.3 2.3 3.2 3.4	3.4 2.8 3.5 3.9 4.0	2.6 2.6 3.3 3.6 3.2	2.1 1.8 2.3 2.4 2.2	2.3 2.1 2.7 2.8 2.6	1.7 2.0 2.2 2.0 2.1	.5 .5 1.0 1.3	1.0 1.3 1.5 1.5
11 12 13 14 15	9.5 9.4 9.3 8.4 8.7	7.2 7.1 7.0 7.0 6.7	7.9 7.8 7.7 7.5 7.3	5.3 5.4 5.3 5.2 3.7	3.0 3.2 3.3 3.3 2.1	3.7 3.8 3.8 3.9 3.1	2.9 3.1 3.3 2.5 1.9	1.7 2.4 2.1 1.3	2.5 2.7 2.5 1.7	1.9 1.5 2.3 2.5 2.6	.5 .4 1.3 1.4	1.1 .9 1.8 1.8
16 17 18 19 20	8.3 6.9 7.9 8.0 6.8	6.0 5.4 5.4 6.4 4.7	6.8 5.8 6.4 6.7 5.7	3.5 3.7 4.1 4.9 4.7	1.8 2.1 3.4 3.4 2.9	2.6 2.9 3.7 3.8 3.7	2.1 1.2 1.3 2.1 2.3	1.0 .6 .1 1.3 1.5	1.5 .8 .9 1.7	2.1 2.5 3.1 3.2 3.2	1.0 1.3 1.8 1.7	1.4 1.7 2.2 2.1 2.2
21 22 23 24 25	6.1 6.6 6.5 6.2 6.5	4.3 4.2 5.2 4.9 5.1	4.9 5.1 5.6 5.2 5.5	4.6 4.8 4.1 3.8 3.9			2.8 2.7 2.3 2.2 2.6		2.3 2.3 2.0 1.8 2.1	2.3 2.4 2.5 1.9 2.9	1.1 1.1 1.3 1.0	1.7 1.6 1.7 1.3
26 27 28 29 30 31	5.9 6.4 6.7 5.4 6.2 5.7	3.8 4.5 4.9 3.8 4.3 3.9		3.2 2.9 3.3 3.2 2.7			3.0 3.0 2.5 3.1 3.1 3.3			2.8 3.1 2.7 2.9		2.1 2.0 1.5 1.9 2.1 2.5
				5.8			3.6					1.8
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	3.3	FEBRUARY 1.7 1.5 .8 .8 .9	2.1 2.1 1.6 1.4 1.5	2.9 3.4 2.2 2.6 2.8		1.3 1.8 1.5 1.3	3.0 2.6 6.0 4.4 4.4		1.8 1.9 3.0 2.4 2.0	5.3 5.6 6.4 6.8 7.2		3.1 2.8 3.4 3.9 4.1
2 3 4 5 6 7 8 9	3.3 3.4 2.4 2.3 2.8 2.0 2.6 2.6 2.5 2.7	1.7 1.5 .8 .9 1.0 .7 .6 .9		2.9 3.4 2.2 2.6 2.8 3.6 3.7 3.9 4.2	.7 1.0 .9 .5			.6 .6 1.7 .1	1.8 1.9 3.0 2.4 2.0 1.7 2.0 2.4 2.6 1.3		2.0 1.7 2.1 2.6 2.7	2.8 3.4 3.9 4.1
2 3 4 5 6 7 8 9	3.3 3.4 2.4 2.3 2.8 2.0 2.6 2.6 2.5 2.7	1.7 1.5 .8 .8	1.3 1.3 1.2 1.4 1.5		.7 1.0 .9 .5 .0 .0 1.1 1.0 1.0	1.7 1.8 1.9 1.8 2.0	3.0 2.6 6.0 4.4 4.4 4.2 4.7 4.8 5.2 2.3	.6 .6 1.7 .1 1.0 .6 .9 1.2 1.3	1.7 2.0 2.4 2.6 1.3		2.0 1.7 2.1 2.6 2.7 2.8 3.1 2.8 2.8 3.0	2.8 3.4 3.9 4.1 4.2 4.2 4.1 4.1
2 3 4 5 6 7 8 9 10 11 12 13 14	3.3 3.4 2.4 2.3 2.8 2.6 2.6 2.5 2.7 2.8 3.0 2.4	1.7 1.5 .8 .8 .9 1.0 .7 .6 .9 .9	1.3 1.3 1.2 1.4 1.5	3.6 3.7 3.9 3.9 4.2 4.6 4.5 4.2 2.2	.7 1.0 .9 .5 .0 .0 1.1 1.0 1.0 1.2 1.3 1.4	1.7 1.8 1.9 1.8 2.0 2.2 2.3 2.0 1.5	3.0 2.6 6.0 4.4 4.4 4.2 4.7 4.8 5.2 2.3 3.2 3.0 4.3 4.5	.6 1.7 .1 1.0 .6 .9 1.2 1.3 .6	1.7 2.0 2.4 2.6 1.3 1.2 1.2 1.7 2.2	7.4 7.0 7.0 6.8 6.9 5.3 6.7 7.0 6.2	2.0 1.7 2.1 2.6 2.7 2.8 3.1 2.8 2.8 3.0 3.0 3.2 3.4 3.5	2.8 3.4 3.9 4.1 4.2 4.1 4.3 3.8 4.3 4.4
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	3.3 3.4 2.4 2.3 2.8 2.0 2.6 2.5 2.7 2.8 3.2 2.8 3.2 2.8	1.7 1.5 .8 .8 .9 1.0 .7 .6 .9 .9 .9 1.2 1.2 1.2 .8 .6	1.3 1.3 1.2 1.4 1.5 1.8 1.5 1.2 1.6	3.6 3.7 3.9 4.2 4.6 4.5 4.2 2.2 4.5	.7 1.0 .9 .5 .0 .0 1.1 1.0 1.0 1.2 1.3 1.4 1.0 .7 1.4 1.6 1.6 1.3 1.7	1.7 1.8 1.9 1.8 2.0 2.2 2.3 2.0 1.5 2.3 2.4 2.5 2.3 2.7	3.0 2.6 6.0 4.4 4.4 4.2 4.7 4.8 5.2 2.3 3.2 3.2 4.5 5.8 6.2 6.5 6.1 6.6	.6 1.7 .1 1.0 .6 .9 1.2 1.3 .6 .5 .2 1.1 1.7	1.7 2.0 2.4 2.6 1.3 1.2 1.7 2.2 2.9 3.0 3.1 3.1 3.4	7.4 7.0 7.0 6.8 6.9 5.3 6.7 7.0 6.2 6.9 7.4 7.4	2.0 1.7 2.1 2.6 2.7 2.8 3.1 2.8 2.8 3.0 3.0 3.2 3.4 3.5 3.5 3.7	2.8 3.4 4.1 4.2 4.1 4.3 3.8 4.5 4.4 4.6 4.7 5.1 5.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	3.3 3.4 2.4 2.3 2.8 2.0 2.6 2.5 2.7 2.8 3.2 2.4 2.8 3.1 3.5 2.3 2.9 2.8 2.6 3.1 2.9 2.6 3.1	1.7 1.5 .8 .8 .9 1.0 .7 .6 .9 .9 .9 1.2 1.2 1.2 1.6 1.3 .9 .9 .9 .8 .6 1.3 .9 .9	1.3 1.3 1.3 1.4 1.5 1.8 1.8 1.5 1.2 1.6 1.9 2.1 2.0 1.7 1.5 1.4 1.2 1.3 1.3 1.5 1.6 1.6 1.2	3.6 3.7 3.9 4.2 4.6 4.5 4.2 4.5 4.8 5.6 5.5 5.7 7 4.9 5.6 5.5 5.7 7 4.6 6 5.7	.7 1.0 .9 .5 .0 .0 1.1 1.0 1.0 1.2 1.3 1.4 1.6 1.6 1.3 1.7 1.8 2.1 1.8 1.9 1.3 .7 1.5 1.1 1.0 1.0 1.1	1.7 1.8 1.9 1.8 2.0 2.2 2.3 2.0 1.5 2.3 2.4 2.5 2.3 2.7 2.9 3.0 2.9 3.0 2.1 2.9	3.0 2.6 6.0 4.4 4.4 4.2 4.7 4.8 5.2 2.3 3.2 4.5 5.8 6.2 6.1 6.7 3.9 6.1 4.7 2.1 5.1 4.1 5.2 6.2 6.1 6.7	.6 1.7 .1 1.0 .6 .9 1.2 1.3 .6 .5 .1.1 1.7 1.8 1.6 1.9 2.1 2.3 2.0 2.0 1.9 1.6 1.6 1.9	1.7 2.0 2.4 2.6 1.3 1.2 1.7 2.2 2.9 3.0 3.1 3.1 3.5 2.8 3.1 2.7 1.3 2.7 2.6 3.0 3.5 3.2 3.2	7.4 7.0 7.0 6.8 6.9 5.3 6.7 7.0 6.2 6.9 7.4 7.4 7.5 6.7 7.6 7.5 8.1 7.9 8.1 8.1 8.4	2.0 1.7 2.1 2.6 2.7 2.8 3.1 2.8 3.0 3.2 3.4 3.5 3.5 3.5 3.7 4.3 4.3 4.3 4.3 4.3 4.3 6.6 6.6 6.8 6.8 6.8	2.8 3.49 4.1 4.2 4.1 4.3 3.8 4.5 4.6 4.7 5.1 5.1 5.5 6.4 7.1 7.1 7.1 7.1 7.1 7.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	3.3 3.4 2.4 2.3 2.8 2.0 2.6 2.5 2.7 2.8 3.0 2.4 2.8 3.1 3.5 2.3 2.9 2.8 2.6 3.1	1.7 1.5 .8 .8 .9 1.0 .7 .6 .9 .9 .9 1.2 1.2 1.2 .6 1.3 .9 .9 .9	1.3 1.3 1.2 1.4 1.5 1.8 1.5 1.2 1.6 1.9 2.1 2.0 1.7 1.5 1.4 1.2 1.3 1.3 1.5 1.6 1.6 1.6 1.6 1.7	3.6 3.7 3.9 4.2 4.65 4.2 2.2 4.5 4.8 5.6 5.5 5.5,7 4.9 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6	.7 1.0 .9 .5 .0 1.1 1.0 1.0 1.2 1.3 1.4 1.6 1.6 1.3 1.7 1.8 2.1 1.8 1.9 1.3 .7	1.7 1.8 1.9 1.8 2.0 2.2 2.3 2.0 1.5 2.3 2.7 2.9 3.0 2.9 3.0 2.1 2.8 2.7 2.9	3.0 2.6 6.0 4.4 4.4 4.2 4.7 4.8 5.2 2.3 3.2 4.5 5.8 6.2 6.1 6.6 6.7 3.9 6.1 7.2 1.1 5.2 5.1	.6 1.7 .1 1.0 .6 .9 1.2 1.3 .6 .5 .1.1 1.7 1.8 1.9 2.1 2.3 2.0 2.0 1.6 1.6 1.9	1.7 2.0 2.4 2.6 1.3 1.2 1.7 2.2 2.9 3.0 3.1 3.4 3.5 2.8 3.7 1.3 2.7	7.4 7.0 7.0 6.8 6.9 5.3 6.7 7.0 6.2 6.9 7.4 7.4 7.6 7.5 6.7 6.0 7.9 8.1 7.9	2.0 1.7 2.1 2.6 2.7 2.8 3.1 2.8 2.8 3.0 3.2 3.4 3.5 3.5 3.5 3.7 4.3 4.3 4.3 4.3 4.3 4.6 6.6 6.6 6.6 6.8 6.8	2.8 3.49 4.1 4.2 4.1 4.3 3.8 4.5 4.4 4.6 4.7 5.1 5.2 5.3 5.5 5.6 4.7 7.1 7.1

06714600 SOUTH CLEAR CREEK ABOVE LEAVENWORTH CREEK NEAR GEORGETOWN, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1 2 3 4 5	9.4 8.7 9.2 9.5 9.4	7.0 7.2 7.2 7.4 7.6	7.9 7.8 7.8 8.1 8.2	11.3 11.6 11.3 11.4 11.0	9.6 9.7 9.6 9.7 9.7	10.3 10.4 10.3 10.3	13.1 12.8 13.4 12.8 12.2	11.1 11.3 11.3 11.3	11.6 11.7 11.9 11.8 11.8	12.4 13.0 13.1 13.2 12.6	11.0 10.5 11.0 11.2 11.0	11.5 11.6 11.6 11.8 11.5
6 7 8 9 10	8.7 9.3 8.3 8.4 8.8	7.5 7.3 7.7 7.4 7.4	8.1 7.9 8.0 7.8 7.9	11.5 11.8 10.8 11.2 11.3	9.9 9.8 9.7 9.8 9.7	10.4 10.5 10.1 10.3 10.3	11.8 12.7 13.2 12.3 12.4	11.5 11.4 11.3 11.2	11.6 11.9 11.9 11.6 11.7	12.4 12.9 12.9 12.8 12.9	11.0 10.8 10.7 11.0 10.9	11.5 11.5 11.5 11.5
11 12 13 14 15	9.3 9.2 9.7 9.7	7.4 7.7 7.7 8.3 8.3	8.1 8.3 8.6 8.9 8.8	10.7 11.4 11.7 12.0 12.2	9.9 9.8 9.9 9.8 10.1	10.3 10.4 10.5 10.6 10.8	12.8 12.7 12.6 12.6 12.9	11.4 11.2 11.1 11.0 10.9	11.8 11.7 11.6 11.4 11.5	12.5 12.6 12.5 12.5 12.3	11.0 10.9 10.7 10.9	11.6 11.4 11.3 11.3
16 17 18 19 20	9.2 9.6 10.0 10.2 10.5	8.2 8.0 8.2 8.6 8.4	8.6 8.6 8.9 9.1 9.2	11.4 11.7 11.2 11.7 11.8	10.0 10.3 10.1 10.5 10.4	10.6 10.7 10.6 10.8 10.9	12.7 12.2 12.9 12.5 12.7	10.9 10.8 11.0 11.0	11.4 11.4 11.4 11.4 11.5	11.9 12.3 12.4 12.3 12.1	10.7 10.4 10.6 10.4 10.2	11.1 11.0 11.3 11.1 10.8
21 22 23 24 25	10.4 11.1 10.6 10.5 10.5	8.9 9.1 9.7 9.3 9.0	9.6 10.0 10.1 9.8 9.5	12.2 12.0 11.9 12.7 12.2	10.2 10.4 10.6 10.6 10.6	10.8 10.9 11.1 11.3 11.1	12.9 12.8 12.7 12.7 12.7	11.0 10.9 10.9 11.1 11.1	11.4 11.5 11.5 11.6 11.5	11.4 11.3 10.6 11.5 11.6	10.4 10.1 9.7 9.5 9.2	10.8 10.5 10.1 10.1
26 27 28 29 30 31	10.9 10.5 10.9 11.1 11.5	9.1 9.3 9.5 9.6	9.7 9.7 9.9 10.1 10.4	11.8 11.9 12.0 12.0 13.2 12.2	10.6 10.7 10.6 10.9 11.3	11.0 11.0 11.0 11.4 11.8 11.7	12.9 12.7 12.9 12.7 12.2 12.3	11.2 11.0 11.0 11.0 10.9	11.7 11.6 11.6 11.5 11.4	11.0 11.4 11.0 11.0 	9.9 9.6 9.0 8.9 9.0	10.4 10.2 9.7 9.5 9.7
MONTH	11.5	7.0	8.8	13.2	9.6	10.7	13.4	10.8	11.6	13.2	8.9	11.0

06714800 LEAVENWORTH CREEK AT MOUTH NEAR GEORGETOWN, CO

 $LOCATION.--Lat~39^o41'14", long~105^o41'59", in~NE^{1/4}SW^{1/4}~sec. 20, T.4~S., R.74~W., Clear~Creek~County, Hydrologic~Unit~10190004, on left bank~400~ft~upstream~from~confluence~of~South~Clear~Creek, 0.3~mi~south~of~Georgetown~Reservoir, and 1.3~mi~south~of~County, Hydrologic~Unit~10190004, on left bank~400~ft~upstream~from~confluence~of~South~Clear~Creek, 0.3~mi~south~of~Georgetown~Reservoir, and 1.3~mi~south~of~County, Hydrologic~Unit~10190004, on~Clear~Creek~County, Hydrologic~Unit~Creek~County, Hydrologic~Unit~Creek~County, Hydrologic~Unit~Creek~County, Hydrologic~Unit~Creek~County, Hydrologic~Creek~County, Hydrologic~Unit~Creek~County, Hydrologic~Creek~Co$ Georgetown.

DRAINAGE AREA.--12.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1994 to September 1997 (discontinued).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,280 ft (revised) above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Vidler tunnel (transmountain diversion) imports water from Peru Creek. There is seasonal diversion into Green Lake.

			DISCH	ARGE, CUBIO	C FEET PER		VATER YEAF MEAN VALU		1996 TO SE	EPTEMBER 199) 7	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	6.8 6.2 6.1 5.7 5.5	e4.2 e4.2 e4.1 e4.0 e4.0	e3.4 e3.3 e3.2 e3.2 e3.1	e2.1 e2.0 e2.0 e2.0 e2.0	e1.8 e1.8 e1.8 e1.8	e1.8 e1.8 e1.8 e1.8	e1.6 e1.6 e1.6 e1.6	2.8 2.7 2.7 3.0 4.2	66 73 72 80 82	53 49 47 44 42	29 27 26 27 27	11 10 10 10 9.2
6 7 8 9 10	5.2 5.2 5.0 5.0	e4.0 e4.0 e4.0 e4.0 e4.0	e3.1 e3.1 e3.0 e3.0 e2.9	e2.0 e2.0 e2.0 e2.0 e2.0	e1.8 e1.8 e1.8 e1.8	e1.8 e1.8 e1.8 e1.8	e1.6 e1.6 e1.6 e1.6	5.7 7.2 7.9 8.6 9.9	81 100 98 95 91	41 43 40 36 35	30 28 25 24 30	8.8 8.5 8.1 7.9 7.8
11 12 13 14 15	5.0 5.0 5.0 5.0 4.9	e4.0 e4.0 e4.0 e4.0 e4.0	e2.8 e2.8 e2.8 e2.8 e2.8	e2.0 e2.0 e1.9 e1.9 e1.9	e1.8 e1.8 e1.8 e1.8	e1.8 e1.8 e1.8 e1.8	e1.7 e1.8 e1.8 e1.9 e2.0	10 10 11 13 15	92 85 85 86 81	35 34 33 33 33	27 25 23 22 20	7.7 7.7 7.2 7.0 7.0
16 17 18 19 20	4.9 4.9 6.9 5.6 5.1	e4.0 e3.9 e3.8 e3.8 e3.7	e2.8 e2.7 e2.7 e2.6 e2.5	e1.9 e1.8 e1.8 e1.8	e1.8 e1.8 e1.8 e1.8	e1.8 e1.7 e1.7 e1.7 e1.6	e2.0 2.1 2.3 2.9 3.6	19 26 32 36 35	79 78 77 85 88	33 32 32 35 32	18 18 17 16 14	7.5 7.0 7.0 7.1 8.3
21 22 23 24 25	e4.8 e4.9 e4.8 e4.7 e4.6	e3.6 e3.6 e3.5 e3.5 e3.5	e2.5 e2.4 e2.4 e2.3 e2.3	e1.8 e1.8 e1.8 e1.8	e1.8 e1.8 e1.8 e1.8	e1.6 e1.6 e1.6 e1.6	3.9 3.2 2.9 4.1 2.8	36 41 40 41 39	89 89 88 79 73	30 28 28 28 27	13 13 12 12 13	7.6 7.9 7.5 7.1 6.8
26 27 28 29 30 31	e4.5 e4.5 e4.4 e4.4 e4.3	e3.5 e3.5 e3.5 e3.4 e3.4	e2.3 e2.2 e2.2 e2.2 e2.1 e2.1	e1.8 e1.8 e1.8 e1.8 e1.8	e1.8 e1.8 e1.8	e1.6 e1.5 e1.6 e1.6 e1.6	2.9 3.0 2.9 2.9 2.8	35 32 31 34 41 52	71 66 61 59 57	27 27 28 27 30 30	12 11 11 10 10	6.9 6.7 6.3 6.1 6.1
TOTAL MEAN MAX MIN AC-FT	158.4 5.11 6.9 4.3 314	114.7 3.82 4.2 3.4 228	83.6 2.70 3.4 2.1 166	58.7 1.89 2.1 1.8 116	50.4 1.80 1.8 1.8	53.0 1.71 1.8 1.5 105	69.5 2.32 4.1 1.6 138	683.7 22.1 52 2.7 1360	2406 80.2 100 57 4770	1072 34.6 53 27 2130	601 19.4 30 10 1190	233.8 7.79 11 6.1 464
STATIST	rics of M	ONTHLY MEA	N DATA FO	OR WATER Y	EARS 1995	- 1997,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	6.06 7.33 1996 5.11 1997	3.82 4.35 1996 3.28 1995	2.45 2.70 1997 2.08 1995	1.81 1.93 1996 1.62 1995	1.63 1.80 1997 1.35 1995	1.58 1.71 1997 1.42 1995	2.07 2.32 1997 1.61 1995	18.5 28.5 1996 5.10 1995	71.4 80.2 1997 62.8 1996	50.4 81.7 1995 34.6 1997	18.7 25.7 1995 11.2 1996	8.31 10.9 1995 6.28 1996
SUMMARY	STATIST	ICS	FOR 1	1996 CALEN	DAR YEAR	F	OR 1997 WA	TER YEAR		WATER YEA	ARS 1995	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC	MEAN TANNUAL ANNUAL M TDAILY ME SEVEN-DA TANEOUS P	EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS		4969.1 13.6 a ₈₃ e _{1.3} 1.5	Jun 11 Mar 9 Mar 3		5584.8 15.3 100 e1.5 1.6 124 4.81 11080 42 4.1	Jun 7 Mar 27 Mar 21 Jun 7		15.6 17.7 13.8 125 b1.2 1.3 168 c4.79 11300 52 4.2	Feb 1 Feb 1 Jul 1	1995 1996 21 1995 12 1995 11 1995 12 1995 12 1995
	CENT EXCE			1.7			1.8			1.6		

e-Estimated.

a-Also occurred Jun 22. b-Also occurred Mar 13, 1995. c-Maximum gage height, 5.69 ft, Jun 17, 1995.

06714800 LEAVENWORTH CREEK AT MOUTH NEAR GEORGETOWN, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1995 to September 1997 (discontinued).

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: May 1995 to September 1997 (discontinued). WATER TEMPERATURE: May 1995 to September 1997 (discontinued).

INSTRUMENTATION.--Water-quality monitor with satellite telemetry since May 1995.

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

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 149 microsiemens, March 28, 30, 1997; minimum, 37 microsiemens, June 22, 1995. WATER TEMPERATURE: Maximum, 15.0°C, Aug. 8, 1995; minimum, 0.0°C, many days during winter months.

EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 149 microsiemens, Mar. 28, 30; minimum, 38 microsiemens June 19. WATER TEMPERATURE: Maximum, 12.8°C, July 30; minimum, 0.0°C, on many days during Oct. to Nov., and Mar. to May.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DE	CEMBER			JANUARY	
1	100	98	99	113	109	112						
2	101	99	100	116	110	113						
3	103	100	101	114	110	113						
4	103	101	102	114	111	113						
5	104	102	103	116	114	115						
6	104	103	103	119	114	116						
7	105	103	104	120	114	117						
8	105	103	104	118	113	116						
9	105	103	104	117	114	116						
10	105	103	104	117	116	117						
11	104	103	103	119	116	117						
12	103	102	103	119	115	117						
13	103	101	102	121	116	118						
14	103	102	102	121	118	119						
15	103	101	102	120	118	119						
16	103	99	101	121	117	119						
17	110	100	107	122	121	121						
18	109	98	104	122	120	121						
19	105	98	101	122	120	121						
20	114	101	106	125	122	124						
21	127	82	116	124	122	123						
22	127	98	117	123	122	122						
23	113	100	106	124	122	123						
24	110	103	107	127	124	125						
25	107	104	106	125	124	125						
26	110	105	107									
27	110	106	108									
28	111	106	109									
29	113	107	111									
30	113	109	112									
31	115	108	111									
MONTH	127	82	105									

06714800 LEAVENWORTH CREEK AT MOUTH NEAR GEORGETOWN, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3							144 145 141	137 137 136	140 140 138	129 131 129	127 125 126	128 128 128
4 5							140 140	134 120	137 137	129 119	116 112	125 116
6 7 8 9			 				143 139	136 131	140 135	116 107 103 97	103 99 96 89	112 103 100 94
10 11										94	83	89 88
12 13 14 15			 				139 138 137	132 135 133	137 136 135	93 92 87 86	87 78 76 69	91 87 81 79
16 17							136 134	130 127	133 130	78 74	65 60	73 68
18 19 20							130 126 123	124 118 111	126 123 118	68 65 62	59 56 58	64 62 61
21 22 23 24 25			 		 		122 125 126 130 127	111 122 120 120 117	116 124 124 126 122	63 60 62 60 61	57 57 56 58 58	60 59 60 59 59
26 27 28		 		 149	 135	 140	125 132 125	121 118 122	123 124 123	62 63 64	59 61 63	60 62 63
29 30 31				142 149 143	139 136 136	140 141 139	126 128 	123 125 	125 127 	70 71 67	62 63 57	65 68 63
MONTH										131	56	82
		JUNE			JULY		I	AUGUST		5	SEPTEMBE:	R
1 2 3 4 5	59 54 55 53 49	52 51 49 45 45	56 53 52 50 47	47 48 48 49 50	46 46 47 48 48	46 47 48 48 49	63 62 63 64 65	61 60 62 61	62 62 64 64	82 83 83 84 83	79 74 78 79 81	81 82 82 83 82
6 7 8 9 10	50 49 47 48 49	47 43 43 45 46	48 47 45 47 48	52 54 54 56 56	49 52 53 54 55	50 53 53 55 55	65 64 65 65	62 63 64 64 63	64 64 64 65	82 83 85 85 86	80 80 82 83 83	80 82 83 84 84
11 12 13 14 15	50 49 50 47 46	46 46 46 44	48 47 48 46 45	56 57 58 58 58	55 56 57 57 57	55 56 57 57 57	65 66 67 68 69	63 63 66 67 68	64 64 67 68 68	86 91 90 90	83 86 88 88	86 89 89 89
16 17 18	45	44	45	58	56	57	71	69	70	92	88	90
19 20	46 45 44 42	44 42 38 39	45 44 42 41	58 61 63 61	57 57 55 59	57 58 60 60	72 73 73 74	70 70 72 72	71 71 72 73	93 93 92 94	90 89 90 88	91 91 91 92
19	45 44	42 38	44 42	61 63	57 55	57 58 60	73 73	70 70 72	71 72	93 92	90 89 90	91 91
19 20 21 22 23 24	45 44 42 43 43 43	42 38 39 40 40 40 43	44 42 41 41 41 42 43	61 63 61 60 60 62 61	57 55 59 59 59 60 60	57 58 60 60 59 60 61 61	73 73 74 74 75 76 76	70 70 72 72 72 73 74 73	71 72 73 73 74 75 75	93 92 94 94 93 93	90 89 90 88 91 91 92 92	91 92 92 92 92 92 93

06714800 LEAVENWORTH CREEK AT MOUTH NEAR GEORGETOWN, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		DE	ECEMBER			JANUARY	
1 2	5.6 5.8	2.2	4.0	.9								
3	6.9	4.2	5.6	1.3								
4	5.6	2.9	4.5	1.1	.0	.5						
5	5.5	2.5	4.3	.9	.0							
6	5.2	2.3	4.0		.0							
7	5.4	2.7	4.2									
8 9	5.3 5.4	2.4	4.0 4.0	. 2	.0							
10	5.4	2.3	4.0	.9	.0	.3						
11	5.6	2.5	4.1	.8	.0							
12	5.1	2.4	4.0	1.0	.0	.3						
13 14	4.8 4.3	2.2	3.7 3.3	$\frac{1.1}{1.1}$.1	. 4 . 5						
15	3.3	.7	2.2	.6	.0							
16 17	2.7	. 0	1.2	. 4 . 5	.0							
18	.5			.8	.4	.6						
19	2.0	.1	.9	1.3	.6	.7						
20				1.2	.1	.7						
21				1.1	.0	.3						
22				1.4	.3	.7						
23				.9	. 2	.5						
24 25				.7	.0							
26 27	.5				.0							
28	1.4	.0	.5									
29												
30 31	 .7											
31	• /											
MONTH												
		FEBRUARY			MARCH			APRIL			MAY	
1							. 9	.0	. 2	3.0	.0	1.0
2							.9	.0	. 0	2.4	.0	.5
							.9 .0 2.3	.0.0	.0 .6	2.4 4.4	.0	.5 1.5
2							.9	.0	. 0	2.4	.0	.5
2 3 4 5				 	 		.9 .0 2.3 2.0 1.7	.0.0.0	.0 .6 .3	2.4 4.4 5.2 5.0	.0 .0 .0 .4	.5 1.5 2.2 2.2
2 3 4				 			.9 .0 2.3 2.0	.0.0.0	.0 .6 .3	2.4 4.4 5.2	.0 .0 .0	.5 1.5 2.2
2 3 4 5 6 7 8				 			.9 .0 2.3 2.0 1.7 .6 1.3	.0.0.0.0.0	.0 .6 .3 .3	2.4 4.4 5.2 5.0 4.8 4.6 4.6	.0 .0 .4 .5	.5 1.5 2.2 2.2 2.0 1.9 1.8
2 3 4 5 6 7 8 9			 	 			.9 .0 2.3 2.0 1.7 .6 1.3 1.9 2.6	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .6 .3 .3 .1 .2 .5	2.4 4.4 5.2 5.0 4.8 4.6 4.6 4.9	.0 .0 .4 .5	.5 1.5 2.2 2.2 2.0 1.9 1.8 2.0
2 3 4 5 6 7 8				 			.9 .0 2.3 2.0 1.7 .6 1.3	.0.0.0.0.0	.0 .6 .3 .3	2.4 4.4 5.2 5.0 4.8 4.6 4.6	.0 .0 .4 .5	.5 1.5 2.2 2.2 2.0 1.9 1.8
2 3 4 5 6 7 8 9 10							.9 .0 2.3 2.0 1.7 .6 1.3 1.9 2.6 .2	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .6 .3 .3 .1 .2 .5 .6	2.4 4.4 5.2 5.0 4.8 4.6 4.6 4.9 5.0	.0 .0 .4 .5 .5 .66 .2 .0 .2 .4	.5 1.5 2.2 2.2 2.0 1.9 1.8 2.0 1.9
2 3 4 5 6 7 8 9 10							.9 .0 2.3 2.0 1.7 .6 1.3 1.9 2.6 .2	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	.0 .6 .3 .3 .1 .2 .5 .6 .0	2.4 4.4 5.2 5.0 4.8 4.6 4.6 4.9 5.0	.0 .0 .0 .4 .5 .5 .6 .2 .0 .2	.5 1.5 2.2 2.2 2.0 1.9 1.8 2.0 1.9
2 3 4 5 6 7 8 9 10							.9 .0 2.3 2.0 1.7 .6 1.3 1.9 2.6 .2	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .6 .3 .3 .1 .2 .5 .6	2.4 4.4 5.2 5.0 4.8 4.6 4.6 4.9 5.0	.0 .0 .4 .5 .5 .66 .2 .0 .2 .4	.5 1.5 2.2 2.2 2.0 1.9 1.8 2.0 1.9
2 3 4 5 6 7 8 9 10 11 12 13				==== ==== ==== ==== ==== ==== ====	 		.9 .0 2.3 2.0 1.7 .6 1.3 1.9 2.6 .2	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	.0 .6 .3 .3 .1 .2 .5 .6 .0	2.4 4.4 5.2 5.0 4.8 4.6 4.6 4.9 5.0	.0 .0 .0 .4 .5 .5 .5 .6 .2 .0 .2	.5 1.5 2.2 2.2 2.0 1.9 1.8 2.0 1.9
2 3 4 5 6 7 8 9 10 11 12 13 14 15							.9 .0 2.3 2.0 1.7 .6 1.3 1.9 2.6 .2	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	.0 .6 .3 .3 .1 .2 .5 .6 .0	2.4 4.4 5.2 5.0 4.8 4.6 4.6 4.9 5.0 3.1 4.8 5.3 4.3 5.8	.0 .0 .0 .4 .5 .5 .6 .2 .0 .2 .4 .2 .7	.5 1.5 2.2 2.2 2.0 1.9 1.8 2.0 1.9 2.3 1.9 2.2
2 3 4 5 6 7 8 9 10 11 12 13 14							.9 .0 2.3 2.0 1.7 .6 1.3 1.9 2.6 .2	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	.0 .6 .3 .3 .1 .2 .5 .6 .0	2.4 4.4 5.2 5.0 4.8 4.6 4.6 4.9 5.0 3.1 4.8 4.3	.0 .0 .0 .4 .5 .5 .6 .2 .0 .2	.5 1.5 2.2 2.2 2.0 1.9 1.8 2.0 1.9
2 3 4 5 6 7 8 9 10 11 12 13 14 15							.9 .0 2.3 2.0 1.7 .6 1.3 1.9 2.6 .2 .1 .6 1.1 2.7	.00.00.00.00.00.00.00.00.00.00.00.00.00	.0 .6 .3 .3 .1 .2 .5 .6 .0 .0 .1 .3 .9	2.4 4.4 5.2 5.0 4.6 4.6 4.9 5.0 3.1 4.8 5.3 4.3 5.4 5.6 4.8	.0 .0 .0 .4 .5 .5 .5 .6 .2 .0 .2 .7 .6 .7	.5 1.5 2.2 2.2 2.0 1.9 1.8 2.0 1.9 2.3 1.9 2.2 2.3 2.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18							.9 .0 2.3 2.0 1.7 .6 1.3 1.9 2.6 .2 .1 .6 1.1 2.7 3.5 3.5 3.5	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	.0 .6 .3 .3 .1 .2 .5 .6 .0 .0 .1 .3 .9	2.4 4.4 5.2 5.0 4.8 4.6 4.6 4.9 5.0 3.1 4.3 5.8 5.4 5.6 4.8	.0 .0 .0 .4 .5 .5 .6 .2 .0 .2 .7 .6 .7	.5 1.5 2.2 2.2 2.0 1.9 1.8 2.0 1.9 1.4 2.0 2.3 1.9 2.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15							.9 .0 2.3 2.0 1.7 .6 1.3 1.9 2.6 .2 .1 .6 1.1 2.7	.00.00.00.00.00.00.00.00.00.00.00.00.00	.0 .6 .3 .3 .1 .2 .5 .6 .0 .0 .1 .3 .9	2.4 4.4 5.2 5.0 4.6 4.6 4.9 5.0 3.1 4.8 5.3 4.3 5.4 5.6 4.8	.0 .0 .0 .4 .5 .5 .5 .6 .2 .0 .2 .7 .6 .7	.5 1.5 2.2 2.2 2.0 1.9 1.8 2.0 1.9 2.3 1.9 2.2 2.3 2.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20							.9 .0 2.3 2.0 1.7 .6 1.3 1.9 2.6 .2 .1 .6 1.1 2.7 3.5 3.5 3.5 3.7	.00.00.00.00.00.00.00.00.00.00.00.00.00	.0 .6 .3 .3 .1 .2 .5 .6 .0 .0 .1 .3 .9 1.2 1.3 1.2	2.4 4.4 5.2 5.0 4.8 4.6 4.6 4.9 5.0 3.1 4.3 5.3 4.3 5.8 5.4 6.6 4.8 5.0 4.7	.0 .0 .0 .4 .5 .5 .6 .2 .0 .2 .7 .6 .7 .6 .7	.5 1.5 2.2 2.2 2.0 1.9 1.8 2.0 1.9 2.3 1.9 2.2 2.2 2.3 2.2 2.2 2.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22							.9 .0 2.3 2.0 1.7 .6 1.3 1.9 2.6 .2 .1 .1 .6 1.1 2.7 3.5 3.5 3.5 3.7	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .6 .3 .3 .1 .2 .5 .6 .0 .0 .1 .3 .9 1.2 1.3 1.2 1.3	2.4 4.4 5.2 5.0 4.8 4.6 4.6 4.9 5.0 3.1 4.8 5.3 4.3 5.8 5.4 6.6 4.8 7.4 4.7	.0 .0 .0 .4 .5 .5 .6 .2 .0 .2 .7 .6 .7 .8 .8 .8	.5 1.5 2.2 2.2 2.0 1.9 1.8 2.0 2.3 1.9 2.2 2.3 2.2 2.2 2.2 2.2 2.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20							.9 .0 2.3 2.0 1.7 .6 1.3 1.9 2.6 .2 .1 .6 1.1 2.7 3.5 3.5 3.5 3.7	.00.00.00.00.00.00.00.00.00.00.00.00.00	.0 .6 .3 .3 .1 .2 .5 .6 .0 .0 .1 .3 .9 1.2 1.3 1.2	2.4 4.4 5.2 5.0 4.8 4.6 4.6 4.9 5.0 3.1 4.3 5.3 4.3 5.8 5.4 6.6 4.8 5.0 4.7	.0 .0 .0 .4 .5 .5 .6 .2 .0 .2 .7 .6 .7 .6 .7	.5 1.5 2.2 2.2 2.0 1.9 1.8 2.0 1.9 2.3 1.9 2.2 2.2 2.3 2.2 2.2 2.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23							.9 .0 2.3 2.0 1.7 .6 1.3 1.9 2.6 .2 .1 .6 1.1 2.7 3.5 3.5 3.1 3.6 3.7	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .6 .3 .3 .1 .2 .5 .6 .0 .0 .1 .3 .9 .9 .1 .2 1.3 1.2 1.3 1.2 1.3 1.3	2.4 4.4 5.2 5.0 4.6 4.6 4.9 5.0 3.1 4.8 5.3 4.3 5.4 5.6 4.8 5.0 4.7	.0 .0 .0 .4 .5 .5 .5 .6 .2 .0 .2 .7 .6 .7 .8 .8 .6 .8 .8 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9	.5 1.5 2.2 2.2 2.0 1.9 1.8 2.0 1.9 2.3 1.9 2.2 2.2 2.2 2.2 2.2 2.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26							.9 .0 2.3 2.0 1.7 .6 1.3 1.9 2.6 .2 .1 .6 1.1 2.7 3.5 3.5 3.7 1.2 3.3 2.8 .0 .3	.00.00.00.00.00.00.00.00.00.00.00.00.00	.0 .6 .3 .3 .1 .2 .5 .6 .0 .0 .1 .3 .9 1.2 1.3 1.2 1.3 1.3 .9	2.4 4.4 5.2 5.0 4.6 4.6 4.9 5.3 4.3 5.3 4.3 5.4 5.6 4.7 4.2 2.6 5.6 3.9 5.0	.0 .0 .0 .4 .5 .5 .6 .2 .0 .2 .4 .2 .7 .6 .7 .6 .7 .8 .8 .8 .6 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	.5 1.5 2.2 2.2 2.0 1.9 1.8 2.0 2.3 1.9 2.2 2.3 2.2 2.2 2.3 2.2 2.2 2.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27							.9 .0 2.3 2.0 1.7 .6 1.3 1.9 2.6 .2 .1 .1 2.7 3.5 3.5 3.5 3.7 1.2 3.3 2.8 .0 .3	.00.00.00.00.00.00.00.00.00.00.00.00.00	.0 .6 .3 .3 .1 .2 .5 .6 .0 .0 .1 .3 .9 1.2 1.3 1.3 1.3 1.3	2.4 4.4 5.2 5.0 4.8 4.6 4.6 4.9 5.0 3.1 4.8 5.3 4.3 5.4 4.8 5.6 4.8 5.6 4.8 5.6 4.8 5.0 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6	.0 .0 .0 .4 .5 .5 .6 .2 .0 .2 .7 .6 .7 .8 .8 .8 .0 .1 .1 .1 .7 .7 .6 .6 .7 .7 .6 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7	.5 1.5 2.2 2.2 2.0 1.9 1.8 2.0 2.3 1.9 2.2 2.3 2.2 2.2 2.2 2.1 1.9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26							.9 .0 2.3 2.0 1.7 .6 1.3 1.9 2.6 .2 .1 .6 1.1 2.7 3.5 3.5 3.1 3.6 3.7 1.2 3.3 2.8 .0 3.5	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .6 .3 .3 .1 .2 .5 .6 .0 .0 .1 .3 .9 .9 .1 .2 .1 .3 .1 .3 .1 .2 .5 .6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	2.4 4.4 5.2 5.0 4.6 4.6 4.9 5.3 4.3 5.3 4.3 5.4 5.6 4.7 4.2 2.6 5.6 3.9 5.0	.0 .0 .0 .4 .5 .5 .5 .6 .2 .0 .2 .4 .2 .7 .6 .7 .8 .8 .6 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	.5 1.5 2.2 2.2 2.0 1.9 1.8 2.0 1.9 2.3 1.9 2.2 2.3 2.2 2.2 2.1 1.9 2.6 2.2 2.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30							.9 .0 2.3 2.0 1.7 .6 1.3 1.9 2.6 .2 .1 .6 1.1 2.7 3.5 3.5 3.7 1.2 3.3 2.8 .0 .3	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .6 .3 .3 .1 .2 .5 .6 .0 .0 .1 .3 .9 1.2 1.3 1.3 1.3 .9 .8 .0 .0	2.4 4.4 5.2 5.0 4.8 4.6 4.6 4.9 5.0 3.1 4.8 5.3 4.8 5.4 4.8 5.6 4.8 5.6 4.8 5.6 4.7 4.2 2.6 6.3 5.0 4.5 5.0 5.0 4.5 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	.0 .0 .0 .4 .5 .5 .6 .2 .0 .2 .7 .6 .7 .8 .8 .8 .0 .8 .6 .1 .1 .1 .7 .6 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	.5 1.5 2.2 2.2 2.0 1.9 1.8 2.0 2.3 1.9 2.2 2.2 2.3 2.2 2.2 2.0 1.9 2.3 1.9 2.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29							.9 .0 2.3 2.0 1.7 .6 1.3 1.9 2.6 .2 .1 .6 1.1 2.7 3.5 3.5 3.7 1.2 3.3 2.8 .0 3.3	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .6 .3 .3 .1 .2 .5 .6 .0 .0 .1 .3 .9 1.2 1.3 1.2 1.3 1.3 .9	2.4 4.4 5.2 5.0 4.6 4.6 4.9 5.3 4.3 5.4 5.4 5.6 4.7 4.2 2.6 6 3.9 5.0 4.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9	.0 .0 .0 .4 .5 .5 .6 .2 .0 .2 .4 .2 .7 .6 .7 .6 .7 .8 .8 .6 .1 .1 .1 .1 .7 .7 .6 .6 .1 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7	.5 1.5 2.2 2.2 2.0 1.9 1.8 2.0 2.3 1.9 2.2 2.3 2.2 2.2 2.1 1.9 2.6 2.2 2.1

06714800 LEAVENWORTH CREEK AT MOUTH NEAR GEORGETOWN, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		I	AUGUST		S	SEPTEMBE	R
1 2 3 4 5	6.3 5.0 6.6 6.7 6.2	1.7 1.6 1.5 1.9 2.1	3.2 3.1 3.5 3.7 3.5	9.4 10.4 10.0 10.0 8.4	3.8 2.8 3.4 3.9 3.6	6.1 6.1 6.4 6.7 6.0	11.4 11.1 12.0 11.4 9.4	6.4 7.0 5.8 7.1 7.6	8.7 8.9 8.8 9.1 8.6	9.8 11.5 10.7 11.6 10.5	6.6 6.9 7.1 7.8 6.4	8.4 9.1 9.3 9.7 8.7
6 7 8 9 10	4.6 5.7 3.7 4.5 5.8	2.4 2.1 2.3 1.8 2.3	3.2 3.4 2.9 3.0 3.6	8.7 10.5 7.4 8.5 9.2	3.5 3.5 4.2 3.5 4.1	5.9 6.6 5.8 6.0 6.7	7.9 9.1 11.4 9.5 9.9	5.7 4.3 4.8 6.0 6.6	6.6 6.7 7.8 7.8 7.9	9.2 9.2 9.4 8.9 9.2	6.3 4.5 5.5 5.2	7.8 7.1 7.5 7.4
11 12 13 14 15	7.3 6.6 7.0 6.6 7.1	2.1 2.3 2.0 2.9 2.1	4.2 4.1 4.3 4.4 4.2	7.5 9.6 10.4 11.3 11.7	4.8 3.8 4.5 3.9 4.5	6.1 6.5 7.1 7.3 7.9	9.4 9.6 9.6 9.4 11.1	4.5 3.6 4.7 5.1 5.2	6.7 6.5 7.0 7.1 7.8	9.0 9.0 8.8 9.0 8.7	6.3 6.2 4.7 5.5 5.4	7.8 7.8 6.9 7.4 7.2
16 17 18 19 20	5.6 6.8 8.4 8.7 9.2	2.4 3.0 2.9 3.7 3.3	3.9 4.6 5.1 5.6 5.7	9.7 8.6 7.7 7.9 9.5	4.9 5.0 4.8 5.0 5.2	7.3 7.0 6.4 6.5 7.3	10.4 9.8 9.5 9.0	5.4 5.3 6.6 5.3 5.1	7.9 7.6 8.0 7.2 7.7	7.9 7.9 9.4 9.0 8.2	6.0 4.1 5.8 6.3 4.8	7.0 6.1 7.5 7.4 6.8
21 22 23 24 25	8.3 9.3 7.2 8.1 8.2	3.3 3.8 3.7 3.3 3.2	5.5 6.2 5.4 5.6	9.7 9.4 9.3 12.7 9.9	4.8 5.3 6.0 5.9 6.1	7.2 7.3 7.7 8.9 8.2	10.1 10.8 11.1 10.8 10.5	5.8 6.1 5.9 6.4 6.8	7.9 8.3 8.6 8.7	7.6 6.7 5.6 6.7 6.8	5.7 4.8 4.2 2.4 2.5	6.8 5.9 4.9 4.6 5.0
26 27 28 29 30 31	8.9 7.7 9.1 9.2 10.5	3.5 3.7 3.6 3.7 3.7	6.0 5.8 6.1 6.3 6.6	10.1 8.8 9.6 10.6 12.8 9.6	5.7 6.8 6.3 6.8 7.1 7.0	7.8 7.8 7.7 8.4 9.7 8.5	10.7 10.5 11.3 11.0 8.9 9.8	7.4 6.9 7.1 7.1 6.1 5.9	9.1 8.9 9.4 9.0 7.8 7.8	7.8 7.8 6.3 6.0 6.8	5.1 5.2 3.1 2.2 2.8	6.6 6.7 5.0 4.4 5.1
MONTH	10.5	1.5	4.6	12.8	2.8	7.1	12.0	3.6	8.0	11.6		

06714800 LEAVENWORTH CREEK AT MOUTH NEAR GEORGETOWN, CO--Continued PRECIPITATION RECORDS

PERIOD OF RECORD.--May 1995 to September 1997 (discontinued), seasonal records only.

GAGE.--Tipping-bucket rain gage (no wind shields used) with satellite telemetry. Elevation of gage is 9,280 ft (revised) above sea level, from topographic map.

REMARKS.--Records poor.

TOTAL

0.74

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 1.04 inches, May 27, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation during period of seasonal operation, 0.92 inches, April 27.

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY SUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01						.00	.04	.00	.00	.01	.10
2	.00						.00	.00	.02	.00	.00	.49
3	.00						.00	.00	.00	.00	.58	.20
4	.00						.00	.00	.00	.00	.07	.00
5	.00						.00	.00	.00	.00	.40	.00
6	.00						.00	.00	.74	.00	.24	.00
7	.00						.00	.00	.15	.00	.01	.00
8	.00						.00	.00	.74	.00	.00	.00
9	.00						.01	.00	.10	.00	.05	.00
10	.00						.00	.00	.05	.04	.19	.00
11	.00						.00	.00	.18	.00	.06	.21
12	.00						.00	.00	.03	.00	.00	.00
1.3	.00						.15	.00	.16	.00	.00	.00
14	.00						.26	.00	.14	.00	.00	.00
15	.00						.00	.00	.00	.00	.00	.00
16	.02						.01	.00	.04	.06	.00	.00
17	.00						.00	.00	.00	.03	.00	.01
18	. 28						.00	.00	.03	.15	.08	.01
19	.00						.00	.00	.03	.18	.05	.16
20	.05						.14	.00	.00	.11	.00	.06
21	.00						.43	.31	.00	.01	.03	.10
22	.01						.01	.23	.00	.00	.00	.02
23	.00						.15	.01	.07	.05	.00	.01
24	.00						.00	.03	.00	.01	.20	.01
25	.00						.01	.00	.00	.04	.01	.00
26	.00						.14	.00	.00	.00	.23	.02
27	.26						.92	.08	.00	.15	.34	.00
28	.09						.36	.02	.00	.18	.01	.00
29	.02						.10	.35	.00	.21	.00	.02
30	.00						.14	.01	.00	.26	.00	.00
31	.00							.00		.22	.06	

2.83

1.08

1.70

2.62

1.42

2.48

394308105413800 CLEAR CREEK ABOVE GEORGETOWN RESERVOIR NEAR GEORGETOWN, CO

 $LOCATION.--Lat~39^{o}43'08", long~105^{o}41'38", in~SW^{1}/_{4}NE^{1}/_{4},~sec.8,~T.4~S.,~R.74~W.,~Clear~Creek~County,~Hydrologic~Unit~10190004,\\ on~left~bank~300~ft~upstream~from~Georgetown~Reservoir,~and~1.0~mi~north~of~Georgetown.$

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD .-- July to September 1997.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,460 ft above sea level, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period July 2 to September 30, 376 ft³/s, July 3, at 0030, gage height 4.70 ft; minimum daily, 43 ft³/s, Sept. 29.

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

			DISCIL		O'LLI'LL	DAILY N	MEAN VALU		1,,,010,02	1222		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											179	78
2										e357	167	79
3										336	164	85
4										316	165	81
5										300	172	77
6										289	176	73
7										279	164	71
8										265	146	69
9										253	136	67
10										249	160	66
11										244	162	67
12										233	146	e64
13										232	130	59
14										228	124	57
15										227	114	56
16										222	110	62
17										216	108	54
18										212	108	55
19										229	107	53
20										215	101	62
21										200	97	56
22										194	95	56
23										193	90	54
24										195	91	52
25										186	94	50
26										174	96	48
27										175	94	50
28										172	90	45
29										177	84	43
30										190	80	44
31										188	80	
TOTAL											3830	1833
MEAN											124	61.1
MAX											179	85
MIN											80	43
AC-FT											7600	3640

e-Estimated.

394359105411900 CLEAR CREEK BELOW GEORGETOWN RESERVOIR NEAR GEORGETOWN, CO

LOCATION.--Lat 39°43'59", long 105°41'19", in SE¹/4NE¹/4, sec.5, T.4 S., R.74 W., Clear Creek County, Hydrologic Unit 10190004, on left bank 30 ft upstream from spillway on Georgetown Reservoir, and 2.0 mi north of Georgetown.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD .-- July to September 1997.

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Elevation of gage is 8,450 ft above sea level, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period July 8 to September 30, 323 ft³/s, July 8, at 1715 and July 13, at 0600, gage height 4.04 ft; minimum daily, 44 ft³/s, Sept. 30.

	, , ,	U		•	,							
	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997											
			Dibern	iiioz, cobi	0.1221.1211		MEAN VALU		1,,,01000	· · · · · · · · · · · · · · · · · · ·		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											177	72
2											161	73
3											158	78
4											162	75
5											169	71
6											178	67
7											162	64
8										e278	141	62
9										274	129	61
10										266	154	59
11										261	158	59
12										244	141	59
13										242	122	57
14										239	112	57
15										236	101	56
16										229	95	60
17										220	93	55
18										216	93	53
19										236	96	53
20										222	90	59
21										203	86	55
22										194	84	55
23										191	80	53
24										194	81	50
25										187	84	49
26										170	86	49
27										168	84	49
28										165	81	46
29										170	77	45
30										184	74	44
31										185	73	
TOTAL											3582	1745
MEAN											116	58.2
MAX											178	78
MIN											73	44
AC-FT											7100	3460

e-Estimated.

06715000 CLEAR CREEK ABOVE WEST FORK CLEAR CREEK NEAR EMPIRE, CO

 $LOCATION.--Lat~39^o45'07'', long~105^o39'41'', in~NE^{1}/4NW^{1}/4~sec.34, T.3~S., R.74~W., Clear~Creek~County, Hydrologic~Unit~10190004, on left bank, 1.1~mi~west~of~exit~232~on~I-70, 1.3~mi~southeast~of~Empire, and 2.1~mi~west~of~Lawson.$

DRAINAGE AREA.--86.1 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 8,280 ft above sea level, from topographic map.

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

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	33	e18	e16	12	e10	e16	35	331	369	188	85
2	49	30	e18	e16	12	e10	e17	33	394	349	173	85
3	50	32	e18	e16	12	e9.5	e18	32	405	331	171	93
4	49	32	e18	e15	12	e9.5	e18	33	454	309	174	89
5	47	29	e18	e15	13	e9.5	e19	41	515	295	178	81
6	44	e26	23	e15	13	e9.0	20	52	496	285	188	78
7	43	e23	23	e14	13	e9.0	21	64	511	276	177	75
8	40	e24	21	e14	13	e8.5	22	72	565	268	158	73
9	38	e24	23	e14	12	e9.0	22	80	518	258	144	71
10	39	e24	23	e14	11	e9.5	21	93	471	253	165	69
11	39	e23	23	e14	11	e10	20	103	488	250	173	68
12	39	e23	23	e14	e11	e10	23	97	489	240	159	69
13	38	e23	21	e14	e11	e11	23	99	504	235	141	65
14	38	e23	21	e14	e11	e11	19	112	530	231	134	64
15	38	e23	e18	e14	e12	e11	19	127	526	229	122	63
16	39	e22	e18	e14	e12	e11	20	147	470	226	116	68
17	35	e23	e18	e14	e11	e12	22	173	464	220	113	63
18	37	e23	e18	e14	e11	e12	25	202	494	216	113	61
19	43	e24	e18	e14	e10	e13	27	219	587	229	113	61
20	42	e23	e18	e14	e11	e12	31	227	618	221	108	68
21	30	e24	e17	e15	e11	e12	40	221	588	206	102	64
22	32	26	e17	e15	e10	e13	33	263	591	200	101	64
23	38	25	e17	e14	e10	e13	32	260	603	197	96	62
24	38	23	e17	e14	e10	e14	35	277	542	198	96	59
25	34	23	e17	e13	e10	e14	32	260	478	194	99	56
26 27 28 29 30 31	35 33 34 35 31 33	22 22 21 23 e18	e17 e17 e17 e17 e16 e16	e13 12 12 12 12 12	e10 e10 e10 	e14 e15 e15 e15 e15 e16	36 33 38 39 36	246 218 193 195 213 257	453 421 402 396 380	182 181 178 182 192	101 99 96 90 85 85	55 55 52 49 48
TOTAL MEAN MAX MIN AC-FT	1212	734	584	433	315	362.5	777	4644	14684	7392	4058	2013
	39.1	24.5	18.8	14.0	11.3	11.7	25.9	150	489	238	131	67.1
	52	33	23	16	13	16	40	277	618	369	188	93
	30	18	16	12	10	8.5	16	32	331	178	85	48
	2400	1460	1160	859	625	719	1540	9210	29130	14660	8050	3990
MEAN	37.4	23.9	19.7	15.3	14.3	17.4	26.0	129	469	347	137	64.7
MAX	45.2	28.0	24.9	19.2	16.7	21.0	32.1	189	497	555	197	76.7
(WY)	1996	1996	1996	1996	1996	1995	1996	1996	1995	1995	1995	1995
MIN	27.9	19.3	15.4	12.8	11.3	11.7	20.2	48.6	420	238	83.1	50.2
(WY)	1995	1995	1995	1995	1997	1997	1995	1995	1996	1997	1996	1996
SUMMARY	STATISTI	CS	FOR	1996 CALEN	DAR YEAR	F	FOR 1997 WAT	ER YEAR		WATER YEA	ARS 1995	- 1997
SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN HOMEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			35378 96.7 609 e14 16 70170 310 34 17	Jun 22 Feb 11 Feb 6		618 68.5 9.1 736 6.05 73800 280 33 12	Jun 20 Mar 8 Mar 3 Jun 19 Jun 19		109 126 98.0 886 8.5 9.1 1030 6.63 78720 342 30 14	Mar Mar Jun	1995 1996 22 1995 8 1997 3 1997 17 1995 17 1995	

e-Estimated.

394730105464802 HOOP CREEK ABOVE TRIBUTARY AT FLORAL PARK NEAR BERTHOUD PASS, CO WATER-QUALITY RECORDS

LOCATION.--Lat 39°47′30″, long 105°46′48″, (unsurveyed), Clear Creek County, Hydrologic Unit 14010001, 1.25 mi upstream from the confluence with West Fork Clear Creek, and 9.5 mi west of Empire.

PERIOD OF RECORD.--April to September 1997.

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

	DAT	E T	IME	DI CHAR INS CUB FE PE SEC (000	GE, T. IC ET R OND	SPE- CIF: CON- DUC: ANCI (US/(IC - I- E CM)	PH (STAN ARI UNIT	ND- O IS)	TEMP: ATU WAT: (DEG	RE ER C)	TUF BII ITY (NTU)	D- Y U)	OXYG DI SOL (MG (003	S- VED /L)	HARI NES TOT (MG AS CAC	S AL /L O3)	CALC DIS SOL (MG AS	VED LVED CA)	
	JUN 06	1:	200	3	.0	5	б	7.9	9	1.	5	6.	7	10.	8	1	1	2	.8	
	SEP 23	1:	302	0	. 95	30	0	7.5	5	3.	5	2.	7	9.	7		9	2	. 4	
	DAT	S: D: SOI E (MO AS	GNE- IUM, IS- LVED G/L MG) 925)	SODI DIS SOLV (MG AS	- ED /L NA)	POTA SIU DIS SOLV (MG, AS I	UM, S- VED /L K)	ALKA LINIT LAR (MG/ AS CACO	TY 3 /L 03)	SULF. DIS SOL' (MG AS SO	- VED /L O4)	CHLO RIDI DIS- SOLV (MG, AS (E, - VED /L CL)	FLU RID DI SOL (MG AS	E, S- VED /L F)	SILIONIS SOLIONIS (MG AS SIO (009	- VED /L 2)	SOL	DUE 80 8. C S- VED	
	JUN 06	(0.87	5	. 4	(0.5	7.	. 6	1	. 9	10		<	0.1	4	. 9		47	
	SEP 23	(0.83	1	. 7	(0.3	11		1	. 9	1	. 4	<	0.1	5	.1		22	
	DAT	SUM CONS TUEI D: E SOI (MG	IDS, OF STI- NTS, IS- LVED G/L) 301)	NIT GE NITR DI SOL (MG AS	N, ITE S- VED /L N)	NITH GEI NO2+I DIS SOLV (MG, AS I	N, NO3 S- VED /L N)	NITE GEN AMMON DIS SOLV (MG/ AS N	N, NIA S- VED /L N)	NITT GEN, MONIL ORGAL TOTA (MG AS 1	AM- A + NIC AL /L N)	NITH GEN, A MONIA ORGAN DIS (MG, AS N	AM- A + NIC /L	PHORTOTIC (MG AS (006	US AL /L P)	PHOR PHOR DI SOL (MG AS	US S- VED /L P)	PHOR PHOR ORT DIS SOLV (MG/ AS P	US THO, E- ED L	
	JUN 06		31	<0.	001	0.0	046	<0.0	002	<	0.2	<(0.2	0.	010	0.	005	0.	004	
	SEP 23		21	<0.	001	0.0	052	<0.0	002	<	0.2	<(0.2	0.	005	0.	004	0.	003	
DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	TO RE ER (U AS	PER, TAL COV- ABLE G/L CU) 042)	DI SO (U	PER, S- LVED G/L CU) 040)	TO RE ER (U AS	ON, TAL COV- ABLE G/L FE) 045)	SO (U AS	ON, IS- LVED G/L FE) 046)	TO RE ER (U AS	AD, TAL COV- ABLE G/L PB) 051)	D: SO: (U) AS	AD, IS- LVED G/L PB) 049)	NE: TO' RE(ER: (U(AS	NGA- SE, TAL COV- ABLE G/L MN)	NE D SO (U AS	NGA- SE, IS- LVED G/L MN) 056)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
JUN 06	<1	<1		10	<	10		190	3	2		<1	< !	10		<10		2	<10	<3
SEP 23	<1	<1		<10		10		50		4		<1		10		<10		<1	<10	<3

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
JUN 06	1210	3.0	9	0.07
SEP 23	1255	0.95	3	0.01

394730105464801 HOOP CREEK TRIBUTARY AT FLORAL PARK NEAR BERTHOUD PASS, CO WATER-QUALITY RECORDS

LOCATION.--Lat 39°47′30″, long 105°46′48″, (unsurveyed), Clear Creek County, Hydrologic Unit 14010001, 10 ft above confluence with Hoop Creek, 1.25 mi upstream from the confluence with West Fork Clear Creek, and 9.5 mi west of Empire.

PERIOD OF RECORD.--April to September 1997.

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

	DAT	E TI	CHAF INS CUE FE ME PE SEC	ST. CI BIC CO EET DU ER AN COND (US	CT-	pH (STAND- ARD UNITS) (00400)	WAT (DEG	RE D ER SC C) (M	GEN, IS- LVED GG/L) 300)	HARD- NESS TOTAL (MG/I AS CACO:	CALC L DIS L SOI (MG 3) AS	S- LVED S/L CA)	MAGN SIU DIS SOLV (MG/ AS N	JM, 3- /ED /L (G)	
	APR 23	14	:50 (0.30	279	8.0	1.) 10	.7	53	15	5	3.	. 8	
	DAT	SODI DIS SOLV E (MG AS (009	UM, SI S- DI YED SOI S/L (MC NA) AS	IUM, LIN IS- L LVED (M B/L A K) CA	AB G/L S CO3)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	DIS SOLY (MG AS	E, RI - D VED SC /L (M CL) AS	UO- DE, IS- LVED G/L F) 950)	SILICA DIS- SOLVI (MG/I AS SIO2 (0095)	AT 1 ED DEG L DI SOI) (MG	DUE .80 G. C S- LVED G/L)	SOLII SUM (CONST TUENT DIS SOLV (MG/	OF CI- CS, S- VED (L)	
	APR 23	31	. ().82 1	4	4.0	70		<0.1	8.0)	163	1	L41	
		DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NIT GE AMMO DI SOL (MG AS	N, GE NIA MO S- OR VED T I/L (N) A	IITRO- CN,AM- CNIA + CGANIC COTAL MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHO PHO TO (M AS	RUS TAL G/L P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHO PHOR ORT DIS SOLV (MG/ AS P	US HO, - ED L		
	AP	R 23	0.003	0.060	<0.	002	<0.20	<0.20	<0	.001	<0.001	0.	001		
DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRO TOT REC ERA (UG AS	AL I OV- BLE S /L (FE) A	RON, DIS- SOLVED UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	D SO (U AS	AD, IS- LVED G/L PB) 049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MAN NES DI SOL (UG AS (010	E, S- VED /L MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
APR 23	<1	1.1	<10	<10	50		3.1	<1	<	10	<10	1.	8	<10	

		DIS-		SEDI-
		CHARGE,		MENT,
		INST.	SEDI-	DIS-
		CUBIC	MENT,	CHARGE,
		FEET	SUS-	SUS-
DATE	TIME	PER	PENDED	PENDED
		SECOND	(MG/L)	(T/DAY)
		(00061)	(80154)	(80155)
APR				
23	1440	0.30	3	<0.01
23	1445	0.30	4	<0.01

394714105465200 HOOP CREEK BELOW FLORAL PARK NEAR BERTHOUD PASS, CO WATER-QUALITY RECORDS

LOCATION.--Lat 39°47'14", long 105°46'52", (unsurveyed), Clear Creek County, Hydrologic Unit 14010001, 0.9 mi upstream from the confluence with West Fork Clear Creek and 9.2 mi west of Empire.

PERIOD OF RECORD.--April to September 1997.

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

	DATI	g TII	CHA IN CU F ME P SE		SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STANI ARD UNITS (00400	O- ATI WA' S) (DE	PER- URE FER G C) 010)	TUR- BID- ITY (NTU) (00076)	DIS SOLV (MG/	NECN, TO S- (M FED F L) CF	ARD- ESS OTAL MG/L AS ACO3)	CALC: DIS- SOLV (MG, AS (- VED /L CA)	
	APR 23	15	35	0.50	261	7.5	5	1.0	3.2	10.	5	55	15		
	JUN 06	11	15 1	9	49	8.3	3	2.5	6.5	10.	6	10	2.8	8	
	SEP 23	12	27	1.8	42	7.3	3	5.0	2.1	11.	1	11	3.0	0	
	DATE	DI: SOL	UM, SOD S- DI VED SOL /L (M MG) AS	S- VED G/L NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	LAB (MG/I AS CACO3	Y SULI DIS SOI (MO B) AS	S- LVED G/L	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	RIDE DIS SOLV (MG/ AS F	;, DI 5- SC /ED (M L #	IS- DLVED MG/L AS IO2)	SOLII RESII AT 18 DEG DIS SOLY (MG,	DUE 80 . C S- VED /L)	
	APR 23	4	.2 2	3	0.9	13	:	3.6	66	<0	.1	7.4		158	
	JUN 06	0	.80	4.5	0.4	9.6	5 :	1.6	7.0	0	.1	5.7		38	
	SEP 23	0	.93	3.2	0.4	13	:	1.8	3.9	<0	.1	5.8		29	
	DATI	TUEN DI	OF G TI- NIT TS, D S- SC VED (M /L) AS	RITE I IS- LVED G/L N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO GEN, AMMONI DIS- SOLVE (MG/I AS N)	GEN A	IA + ANIC	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS PHORU TOTA (MG/ AS P	S- PHO IS I L SO L (M	HOS- DRUS DIS- DLVED MG/L S P)	PHOS PHORI ORTI DIS- SOLVI (MG/I AS P	US HO, - ED L)	
	APR 23 JUN	:	129 0	.004	0.114	0.00)2 <	0.20	<0.20	0.0	01 <0	0.001	0.0	003	
	06		29 <0	.001	0.076	<0.00)2 <	0.2	0.3	0.0	09 0	0.004	0.0	005	
	23		27 <0	.001	0.043	<0.00)2 <	0.2	<0.2	0.0	04 0	0.003	0.0	002	
DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPI DIS SOLV (UG AS	ER, TC - RE VED ER /L (U CU) AS	CON, DTAL CCOV- LABLE IG/L S FE) .045) (IRON, DIS- SOLVED (UG/L AS FE)	TO' REG ERZ (UG AS	COV- ABLE S G/L (PB) A	EAD, DIS- OLVED UG/L S PB) 1049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MA NE - D SC (U	NGA- SE, DIS- DLVED JG/L MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
APR 23	<1	<1	<10	<10		160	59		<1 <	10	20	1	.1	<10	
JUN 06	<1	<1	<10	<10		280	26		<1 <	10	10		2	10	8
SEP 23	<1	<1	<10	<10		90	35		<1 <	10	<10		4	<10	<3

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
APR				
23	1520	0.50	4	0.01
23	1525	0.50		
JUN				
06	1100	19	23	1.2
SEP				
23	1212	1.8	8	0.04

394716105474100 WEST HOOP CREEK TRIBUTARY AT UPPER STATION NEAR BERTHOUD PASS, CO WATER-QUALITY RECORDS

 $LOCATION. -- Lat\ 39^{o}47'16",\ long\ 105^{o}47'41",\ (unsurveyed),\ Clear\ Creek\ County,\ Hydrologic\ Unit\ 14010001,\ 0.75\ mi\ upstream\ from\ the\ confluence\ with\ Hoop\ Creek,\ and\ 10.5\ mi\ west\ of\ Empire.$

PERIOD OF RECORD.--April to September 1997.

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

DATI	E TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH (STAND- ARD UNITS) (00400)		TUR- BID- ITY (NTU) (00076)	OXYGEN DIS- SOLVEI (MG/L (00300	(MG/L D AS) CACO3	CALC DIS SOL (MG) AS	!IUM S: - D: VED SO! /L (MC CA) AS	GNE- IUM, SOD: IS- DIS LVED SOLV G/L (MG MG) AS 925) (009	S- /ED G/L NA)
APR 23	1356	0.28	33	7.3	1.6	0.6	10.3	1	2 3	.5	0.74	1.7
06 SEP	1125	7.6	22	8.0	3.0	4.4	9.1		7 2	.2	0.49	1.3
23	1337	0.86	27	7.5	4.0	2.3	9.0		9 2	.7	0.59	1.5
	DATE	DIS- SOLVI (MG/I AS K	M, LINITY - LAB ED (MG/I L AS	SULFA DIS- SOLV (MG/	TE RIDE DIS- ED SOLV L (MG/ 4) AS C	DIS ED SOLV L (MG/ L) AS F	:, DIS 3- SOI 7ED (MC 1L AS	ICA, RES S- AT LVED DE G/L D S SO	180 C G. C T IS- LVED G/L)	UM OF ONSTI-		
	APR 23	0	.3 15	1.	6 0	.1 0).1	8.4	33	26		
	06 SEP	0	.4 9.8	1.	2 0	.1 0).1	6.9	26	19		
	23	0	.3 13	1.	2 0	.1 0	.1	7.6	23	22		
	DATE	GEN,	NO2+NO3 DIS- SOLVED (MG/L AS N)	GEN, AMMONIA DIS- SOLVED (MG/L AS N)	GEN,AM- MONIA +	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	SOLVE (MG/L AS P)	ORT DIS D SOLV (MG/ AS P	US THO, E- ED L		
	APR 23 JUN	0.002	0.107	<0.002	<0.2	<0.2	0.009	9 0.00	8 0.	010		
	SEP	<0.001	0.066	<0.002	<0.2	<0.2	0.010	0.00	7 0.	010		
	23	0.001	0.042	<0.002	<0.2	<0.2	0.01	2 0.00	8 0.	006		
DATE	UNFLTRD D TOTAL SO (UG/L (U AS CD) AS	MIUM TO: IS- REC LVED ERA G/L (UC CD) AS		ER, TO - RE VED ER - (U CU) AS	COV- D ABLE SO G/L (U FE) AS	LVED ER G/L (U	OTAL I COV- RABLE S JG/L S PB) A	LEAD, DIS- SOLVED (UG/L AS PB)	ERABLE	NESE, DIS- SOLVED	TOTAL RECOV- ERABLE	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
APR	-	.1	.10 -	٥	1.0	4	. 7	.10	1.0	-	4.0	
23 JUN		<1	<10 <1			4	<1	<10	<10	<1	<10	11
06 SEP		<1	<10 <1		60 1				<10	<1	<10	<3
23	<1	<1	<10 <1	.U	40	5	<1	<10	<10	<1	<10	6

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
APR				
23	1345	0.28	9	0.01
23	1350	0.28	4	0.00
JUN				
06	1115	7.5	66	1.3
SEP				
23	1325	0.86	4	0.01

394657105471500 WEST HOOP CREEK TRIBUTARY AT LOWER STATION NEAR BERTHOUD PASS, CO WATER-QUALITY RECORDS

LOCATION.--Lat 39°46'57", long 105°47'15", (unsurveyed), Clear Creek County, Hydrologic Unit 14010001, 0.25 mi upstream from the confluence with Hoop Creek, and 7.5 mi west of Empire.

PERIOD OF RECORD.--April to September 1997.

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

	DAT	E TI	ME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)		ND- D TS)	TEMPER- ATURE WATER (DEG C) (00010)	TUF BII ITY (NTU)- [])	OXYGEN DIS- SOLVE (MG/L (00300	(MC D AS) CAC	SS TAL F/L S CO3)	CALC DIS SOL' (MG AS (- VED /L CA)	
	APR 23	16	520	0.61	56	7.	9	1.0	1.	. 2	10.4		15	4	.3	
	06 SEP	13	315	9.2	31	8.	2	3.5	3.	. 3	10.2		9	2	.6	
	23	11	.32	0.77	28	7.	3	4.0	4.	. 3	10.2		10	2	.8	
	DATI	SI DI SOL E (MG	S- VED S J/L MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	LINI LAI (MG AS CAC	TY B /L O3)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLC RIDE DIS- SOLV (MG/ AS C	E, ED L L	FLUO- RIDE, DIS- SOLVE (MG/L AS F)	DIS SOI (MC AS SIC	LVED G/L G D2)	SOLI RESI AT 1: DEG DI: SOL' (MG	DUE 80 . C S- VED /L)	
	APR 23	0	0.92	4.4	0.4	15		2.1	6.	6	0.	1 8	3.3		23	
	JUN 06		0.60	2.0	0.4			1.4	2.		0.		5.9		30	
	SEP 23		0.62	1.6	0.3			1.3	0.		0.		7.5		25	
	DAT	TUEN DI E SOL	OF GTI- N GTS, S- LVED G/L)	NITRO- GEN, VITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEI AMMOI DII SOL' (MG AS I	N, NIA S- VED /L N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	MONIA	1) IIC 7 + 7W-	PHOS- PHORUS TOTAL (MG/L AS P) (00665	DI SOI (MC AS	RUS IS- LVED E/L	PHOS PHORI ORTI DIS- SOLVI (MG/I AS P	US HO, - ED L)	
	APR 23		36	0.005	0.096	<0.	002	<0.2	- ().2	0.00	7 0	.009	0	006	
	JUN 06		23	0.003	0.090			<0.2		0.2	0.00		.009		008	
	SEP 23		23	<0.001	0.013			<0.2).2	0.00		.005		003	
							002).2		MANGA-				
DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	COPPE TOTA RECO ERAE (UG/ AS C	AL COP DV- DI BLE SO /L (U CU) AS	PER, T S- R LVED E G/L (CU) A	RON, OTAL ECOV- RABLE UG/L S FE) 1045)	SOI (UG	ON, TO IS- RE LVED EF E/L (U FE) AS	EAD, DTAL ECOV- RABLE JG/L S PB) LO51)	SOI (UG	AD, IS- LVED E/L PB)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) 01055)	NE D SO (U AS	NGA- SSE, DIS- DLVED GG/L MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
APR 23	<1	1	<	<10 <	10	29		5	<1	<1	.0	<10		<1	<10	8
06 SEP	<1	<1	<	<10 <	10	270	1	17	1	<1	.0	10		<1	<10	<3
23	<1	<1	<	<10 <	10	100	1	10	<1	<1	.0	<10		<1	<10	6

		DIS-		SEDI-
		CHARGE,		MENT,
		INST.	SEDI-	DIS-
		CUBIC	MENT,	CHARGE,
		FEET	SUS-	SUS-
DATE	TIME	PER	PENDED	PENDED
		SECOND	(MG/L)	(T/DAY)
		(00061)	(80154)	(80155)
APR				
23	1605	0.61	5	0.01
23	1610	0.61	5	0.01
JUN				
06	1300	9.2	50	1.2
SEP				
23	1120	0.77		
23	1120	0.//		

394634105465800 HOOP CREEK AT MOUTH NEAR BERTHOUD FALLS, CO

LOCATION.--Lat 39°46'34", long 105°46'58", T.3 S., R.75 W. (unsurveyed), Clear Creek County, Hydrologic Unit 10190004, on left bank 10 ft downstream from U.S. Highway 40 culvert, and 1.0 mi southeast of Berthoud Falls.

DRAINAGE AREA.--Not determined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April to September 1997 (seasonal records only).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,595 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by minor transmountain diversion from Colorado River basin through Berthoud Pass ditch (see elsewhere in this report).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge during period of seasonal operation, 61 ft³/s, June 22, during period of estimated record. Maximum recorded discharge, 73 ft³/s, June 27, at 0730, gage height 1.52 ft; minimum daily, 0.90 ft³/s, May 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES DAY ОСТ NOV DEC APR JAN FEB MAR MAY TITIN JUL AUG SEP 1.2 18 8.0 ___ ___ 7.4 7.8 2 ___ ___ ___ ___ ___ e1.0 2.4 15 3 7 3 ---.90 4.7 --e26 15 1.4 -----------e27 14 7.4 ___ ___ ___ 7.8 5 1.6 e28 16 3.9 6 7 e29 18 7.8 ---___ ------___ ------1.9 e31 18 7.4 3.2 8 2.3 e33 19 7.4 3.3 ------7.5 ___ ___ ___ 2.7 e33 20 ___ ------___ 10 3.2 e32 19 3.3 11 12 7.4 8.1 ___ ___ ___ ___ ___ ___ ___ 3.5 e33 18 3.6 ---------------------17 e37 3.0 3.6 13 7.9 4.0 e40 16 2.6 14 15 ___ ___ ___ ___ ___ ___ ___ 4.6 e43 15 7.9 7.7 2 4 ---16 2.5 5.2 e47 7.4 7.1 16 ___ ___ ___ ___ ___ ___ ___ 6.7 e46 15 3.2 17 ---___ ---9.2 e45 14 2.4 12 7.1 18 e48 13 e52 19 ___ ___ ___ ___ ___ ___ ___ 14 12 7 2 2 6 20 13 e55 13 6.9 3.8 21 ___ ___ ___ ___ ___ ___ ___ 13 e57 13 6 4 3 2 22 ---6.0 12 13 3.1 e61 23 ------------13 e56 12 5.6 2.6 ___ ___ 6.2 24 ___ ___ ___ ___ ___ 13 e54 12 25 12 2.0 13 e54 26 ___ ___ ___ ___ ___ ___ ___ 12 e48 1.0 5.0 2 2 27 ------------13 4.7 44 10 28 ---------___ ------12 34 9.5 4.5 1.9 29 ---___ ------------1.1 13 31 8.9 4.3 1.9 ___ ------___ ------1.0 11 8.8 1.8 ---31 ------___ ------12 8.7 3.9 TOTAL 230.70 1187 438.9 207.3 88.8 ---MEAN ------------------7.44 39.6 14.2 6.69 2.96

.90

458

61

2350

20

8.7

871

8.1

3.9

411

4.8

176

e-Estimated.

MAX MIN

AC-FT

394634105465800 HOOP CREEK AT MOUTH NEAR BERTHOUD FALLS, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1997 to September 1997.

PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: May 1997 to September 1997. WATER TEMPERATURE: May 1997 to September 1997.

INSTRUMENTATION.--Water-quality monitor since May 1997.

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

EXTREMES FOR CURRENT PERIOD .--

SPECIFIC CONDUCTANCE: Maximum, 440 microsiemens, Sept. 5; minimum, 23 microsiemens, June 20, 22. WATER TEMPERATURE: Maximum 10.7°C, Sept. 2; minimum, 1.0°C, May 26.

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

	DATI	E TI	ME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM	pH (STA AR) UNI	AND- RD ITS)	TEMPER- ATURE WATER (DEG C) (00010)	TUI BII IT' (NT)	D- Y U)	OXYGEN DIS- SOLVI (MG/1	N, - ED L)	HARD- NESS TOTAL (MG/L AS CACO3)	(MC	S- LVED S/L CA)	
	APR 23	17	710	0.88	282	7.	. 3	0.5	14		11.4	4	51	14		
	JUN 06	12	230	28	58	8.	.1	4.0	5	. 3	9.2	2	13	3.	4	
	SEP 23	10	140	2.8	55	7.	. 5	4.5	2	. 2	9.2	2	15	4.	0	
	DATI	SI DI SOI E (MG	S- LVED E/L MG)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS SIUM DIS- SOLVE (MG/L AS K) (00935	, LINI LA D (MG AS CAC	TTY AB B/L B CO3)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHL(RID) DIS- SOL' (MG, AS (- VED /L CL)	FLUO- RIDE DIS- SOLVI (MG/I AS F	, - ED L)	DIS- SOLVED (MG/L AS SIO2)	DEG DI	DUE 80 5. C SS- LVED 5/L)	
	APR 23 JUN	3	3.9	32	0.	9 16	5	4.3	73		<0	.1	8.3	1	.65	
	06 SEP	1	.0	5.0	0.	5 10)	1.7	9	.5	0	.1	6.4		45	
	23	1	.1	3.9	0.	4 15	5	1.8	6	.7	< 0	.1	6.6		35	
	DATI	SUM CONS TUEN DI E SOI (MG	OF STI- STS, SS- LVED S/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NO2+NO DIS- SOLVE (MG/L AS N)	GE 3 AMMC DI D SOI (MG AS	EN, ONIA IS- LVED G/L N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, MONIA ORGAI DIS (MG AS 1	AM- A + NIC /L N)	PHOS- PHORUS TOTAI (MG/I AS P	- P S L L)	PHOS- PHORUS DIS- SOLVEI (MG/L AS P) 00666)	PHOR PHOR ORT DIS SOLV (MG/ AS E	RUS THO, G- VED (L	
	APR 23 JUN		147	0.004	0.06	6 <0.	.002	<0.2	< !	0.2	0.0	12	<0.001	. 0.	002	
	06 SEP		34	0.001	0.06	1 <0.	002	<0.2	< !	0.2	0.03	10	0.004	0.	004	
	23		34	0.001	0.01	7 <0.	.002	<0.2	< !	0.2	0.00	05	0.003	0.	002	
DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	REC ERA (UG AS	CAL COP COV- DI ABLE SO G/L (U CU) AS	PPER, S- DLVED JG/L S CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) 01045)	SOL (UG AS	N, TO S- RI VED EI	EAD, OTAL ECOV- RABLE JG/L S PB)	(UG AS	S- LVED B/L PB)	ERAB (UG/ AS M	:, M L N DV- BLE S L (IN) F	OLVED UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
APR 23	<1	<1	<1	.0 <1	.0	160	59		<1	<10)	20	ı	11	<10	
JUN 06	<1	<1	<1	.0 <1	.0	280	26		<1	<10)	10	ı	2	10	8
SEP 23	<1	<1	<1	.0 <1	.0	90	35		<1	<10)	<10	ı	4	<10	<3

394634105465800 HOOP CREEK AT MOUTH NEAR BERTHOUD FALLS, CO--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
FEB 26 26 26 MAR	1320 1325 1330	0.30 0.30 0.30	3 28 3	<0.01 0.02 <0.01
05 13 17 19 20 25 27 31	1245 1600 1800 1900 1330 1730 1520 1805	0.20 0.80 1.0 1.2 0.51 1.0 0.70	1 16 11 15 15 19 5	<0.01 0.03 0.03 0.05 0.02 0.05 0.01
21 22 23 24 25 26 27 28 29 30	1450 0945 1035 1000 0930 0830 1825 1645 1700 1630 1455 1445 2120 2120 1055 1755	0.60 0.70 4.9 0.74 0.90 0.90 0.88 0.90 1.0 1.0 1.0	9 23 6 15 3 5 217 43 15 21 102 31 18 11 8	0.01 0.04 0.09 0.03 0.01 0.01 0.53 0.10 0.04 0.05 0.27 0.08 0.05 0.03
01 02 03 03 04 05 06 06 07 08 09 10 11 12 12 13 14 15 15 16 16 17 18 19	1025 1015 1635 0900 2045 0830 2200 0945 1710 0825 1745 1240 2905 0920 0810 2155 1120 1840 0840 2015 0725 1830 0855 1830 0855 1835 0745 2050 0925 2015 0925	0.96 46 0.83 0.83 1.0 0.96 2.1 1.5 2.1 1.7 2.3 1.9 2.2 2.7 3.7 3.3 4.1 3.7 4.5 4.5 4.5 4.9 4.5 6.5 5.4 9.3 7.1 12 12	2 8 3 2 17 4 4 5 101 5 31 4 9 3 3 3 3 10 4 6 4 9 9 11 18 7 29 10 3 4 15 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	<0.01 1.0 0.01 <0.01 0.05 0.01 0.02 0.01 0.57 0.02 0.17 0.02 0.06 0.02 0.10 0.03 0.06 0.04 0.10 0.21 0.08 0.38 0.13 0.59 0.22 1.1 0.53 0.98 1.1

394634105465800 HOOP CREEK AT MOUTH NEAR BERTHOUD FALLS, CO--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
MAY 20	1155 2130 1140 1145 1155 1156 1945 1120 1800 1155 1900 1600 0835 1926 1130 1730 1015 1024 1710 2010 1045 2145 0945 1420	11 14 12 17 12 12 16 12 14 13 14 14 13 13 11 12 12 13 13 11 11 12 11 11 11	45 72 33 41 19 58 285 105 171 193 112 32 32 16 26 17 14 14 45 24 18 16 15	1.3 2.7 1.1 1.9 0.63 1.9 12 3.4 6.5 6.8 4.2 1.3 1.1 0.55 0.76 0.45 0.49 1.6 0.53 0.48
JUN 01 02 02 03 04 05 06 06 10 11 11 12 13 14 14 15 16 17 18 19 20 21 22 24 24 24 25 26 26 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30	1130 0810 2100 1715 1035 2355 1137 2040 0645 1220 0930 1000 2230 1100 2015 2004 1120 1720 1020 0940 1300 1300 1020 1720 1020 1020 1020 1020 1020 1020 1020 1030 1030 1040 1055 1064 1077 1158 1093 1095	12 24 22 26 27 28 28 29 29 33 32 32 33 37 40 43 43 44 45 45 55 55 55 57 61 54 48 48 48 35 54 48 48 48 21 16 16 21 18 21 18 21 18 21 18 21 18 21 21 21 21 21 21 21 21 21 21 21 21 21	57 122 113 278 38 81 755 611 38 63 74 389 171 57 129 200 16 144 209 755 43 186 181 192 193 194 195 196 196 197 198 199 199 199 199 199 199 199 199 199	1.9 7.9 6.7 20 2.8 5.9 5.7 4.6 4.0 3.0 6.3 12 4.7 1.8 6.3 12 7.1 16.3 6.8 21 2.4 2.1 5.3 6.8 21 9.0 6.2 27 2.4 1.6 0.93 1.0 0.555 0.28 0.31 0.32 0.30 0.552 0.44 0.45 0.43 0.52 0.445 0.43 0.52 0.445 0.43 0.52 0.445 0.43 0.52 0.445 0.43 0.52 0.35

394634105465800 HOOP CREEK AT MOUTH NEAR BERTHOUD FALLS, CO--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
JUL 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 02 03 07 08 10 11 12 15 16 17 18 21 24 25 28 2	0031 0131 0231 0331 0431 0531 0631 0731 0815 0831 0931 1930 1110 1000 0915 1030 1145 1235 1245 1235 1245 1230 1714 1715 1830 1715 1730 1745 1800 1714 1715 1830 1945 1945 1945 1945 1946 1941 1941 1941 1744 1754 1804 1814 1844 1844 1854 1744 1754 1804 1714 1729 1734 1814 1824 1834 1844 1854 1904 1915 1930 1945 1945 1946 1946 1947 1947 1948 1948 1948 1948 1948 1948 1948 1948	13 13 16 15 21 21 13 18 21 13 18 21 15 16 18 18 15 16 18 18 13 13 13 13 13 13 13 13 13 13	55775656665776453341655535632112600643334122311123225326565553568222311188775553755	0.19 0.17 0.29 0.20 0.31 0.28 0.22 0.29 0.27 0.43 0.16 0.22 0.16 0.07 0.19 0.11 0.59 0.10 0.59 0.10 0.59 0.11 0.05 0.02 0.04 0.05 0.02 0.04 0.05 0.02 0.04 0.05 0.02 0.04 0.05 0.02 0.03 0.01 0.04 0.06 0.07 0.05 0.02 0.03 0.01 0.04 0.06 0.03 0.05 0.11 0.06 0.04 0.16 0.12 0.16 0.12 0.16 0.12 0.16 0.11 0.11 0.11 0.11 0.11 0.11 0.11

394634105465800 HOOP CREEK AT MOUTH NEAR BERTHOUD FALLS, CO--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
AUG 01 03 05 05 05 05 05 05 05 05 05 05 05 05 05 05 05 05 05 05 05 09 10 11	1735 1015 2029 2030 2049 2059 2109 2119 2129 2139 22149 2259 2319 2329 2339 2349 2359 0009 1413 1414 1423 1443 1453 1513 1513 1513 1523 1531 1613 1623 1633 1643 1653 1713 1723 1733 1743 1753 1753 1743 1753 1753 1753 1753 1753 1753 1753 175	8.3 7.4 8.3 8.3 9.3 10 11 11 9.3 11 12 12 12 11 10 9.5 8.3 9.0 11 10 9.5 8.3 8.3 7.4 8.3 8.3 9.0 11 10 9.5 8.3 8.3 9.0 11 10 10 10 10 10 10 10 10 1	3 2 199 23 3 113 22 2 1 1 4 3 3 4 4 3 1 2 2 2 3 3 3 4 4 4 6 4 4 4 4 4 4 4 5 4 5 4 5 4 5 4 5	0.06 0.05 0.43 0.51 1.2 2.8 4.1 9.5 12 7.5 7.3 7.2 8.3 6.1 4.7 3.7 3.2 2.4 1.8 1.5 1.1 0.99 0.73 0.68 0.51 0.45 0.41 1.1 1.4 9.7 6.1 9.8 4.1 2.4 1.5 1.2 0.82 0.41 0.32 0.22 0.21 0.19 0.33 0.24 0.32 0.22 0.21 0.19 0.20 0.19 0.20 0.20 0.21 0.19 0.20 0.20 0.20 0.21 0.19 0.20 0.20 0.21 0.19 0.20 0.20 0.21 0.19 0.20 0.20 0.20 0.20 0.21 0.19 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.2

394634105465800 HOOP CREEK AT MOUTH NEAR BERTHOUD FALLS, CO--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
AUG 13	1850	7.4	3	0.07
15 18 20 22 22	1855 1140 1444 1454 1509 1524 1539 1654 1639 1654 17709 1724 1739 1754 1809 1824 1909 1924 1909 1924 1909 1924 1939 1954 2009 2024 0815 1855	7.4 7.4 6.9 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4	1 1 2 2 4 6 19 137 84 21 15 10 18 21 4 4 1 3 4 4 1 3 1 3 1 4 4 1 1 3 1 4 1 1 3 1 4 1 1 3 1 4 1 1 3 1 4 1 1 3 1 4 1 1 3 1 4 1 3 1 4 1 3 1 3	0.03 0.03 0.05 0.04 0.07 0.11 0.36 2.6 1.7 0.56 0.63 0.20 0.36 0.42 0.07 0.09 0.20 0.06 0.07 0.08 0.03 0.01 0.04 0.07
30	1500	4.1	4	0.05
SEP 01 08 12 22 23	1430 1610 0920 1650 1031	3.6 3.6 3.0 3.2 2.6	8 6 5 2 2	0.07 0.06 0.04 0.02 0.01

394634105465800 HOOP CREEK AT MOUTH NEAR BERTHOUD FALLS, CO--Continued

 ${\tt PARTICLE-SIZE\ DISTRIBUTION\ OF\ SURFACE\ BED\ MATERIAL,\ WATER\ YEAR\ OCTOBER\ 1996\ TO\ SEPTEMBER\ 1997}$

DATE	TI	CH I C ME	DIS- TARGE, NST. UBIC FEET PER TECOND 0061)	DIS CHAR BEDL (TON DAY	T - GE, OAD S/		OAD VE M. NER AN MM	BEDL SIE DIA % FI TH	VE M. NER AN MM	BEDI SIE DIA % FI TH	OVE M. INER IAN MM	BEDL SIE DIA % FI TH	EVE M. INER IAN) MM	BEDL SIE DIA % FI TH	VE M. NER AN MM	BEDL SIE DIA % FI TH 4.00	VE M. NER AN MM	SIE DIA % FI TH	OAD VE M. NER AN MM	SIE DIA % FI TH 16.0	OAD VE M. NER AN MM
MAY 14 15 16 19	19 07 09 09	55 34 35 50 46	5.5 4.5 6.5 4.9	0. 12. 0. 0. 13.	100 8 200 200 5	0.0 0.0 0.2 0.2	00 00 00 200	0. 0. 0. 0.	500 200 100 200 100	20. 12. 0. 3. 13.	9 7 900 00 3	48. 39. 4. 9. 39.	0 1 40 60 2	71. 67. 38. 48. 68.	9 0 8 5 7	93. 89. 89. 94.	4 5 7 4	10 9 10 10 9	0 9.7 0 0 8.7	10 - - 10	0 - -
DATE	TIME	DIS- CHARGE INST. CUBIC FEET PER SECON (00061	CHA CHA BEI (TO	IS- ARGE, DLOAD DNS/ AY)	BEDI SII DIZ % FI TI	LOAD EVE AM. INER HAN 5 MM	BED SI DI % F T	EVE AM. INER HAN 0 MM	BED SI DI % F T	LOAD EVE AM. INER HAN	BED SI DI % F T	EVE AM. INER HAN 0 MM	BED SI DI % F T	EVE AM. INER HAN 0 MM	BED SI DI % F T	EVE AM. INER HAN 0 MM	BEDL SIE DIA % FI TH 8.00	VE M. NER IAN MM	BEDI SIE DIA % FI TH	IVE M. INER IAN MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM (80235)
MAY 20	1719 1735 1228 1239 0950 1005 0930 0940 1727 1737 1055 1105 1055 0955	12 13 11 12 12 11 11 13 13 14 14 14 13 13 12 12 11	10 1: 20 1: 3 4 6 6 6 6 6 6 6 6 6 6 7 6 7 6 7 6 7 7 7 8 7 8	0.1 3.3 5.70 7.00 5.9 5.3 9.50 9.50 9.50 1.40 1.50 1.50 1.10		.100 .00 .00 .00 .00 .100 .100 .100 .10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.200 .300 .200 .200 .200 .200 .200 .300 .400 .300 .400 .200 .200 .300 .200	12 11 85 22 33 61 12 13 18 17 29 21 14 16 21	2.4 6 3.50 3.50 3.50 3.40 3.7 3.6 3.9 3.7 3.5 3.3	343 3632 2111 1925 4038 5044 6452 33343 4853	.7 .0 .4 .9 .2 .4 .8 .5 .8 .0 .0 .6 .9 .8 .1 .1	54 664 50 42 54 67 67 67 67 67 67 67 67 67 67 67 67 67	.7 .1 .2 .1 .5 .4 .1 .7 .0 .2 .2 .3 .2 .2 .3 .2	71 89 90 83 83 81 87 84 92 84 92 84	.1 .6 .1 .7 .4 .3 .1 .7 .9 .4 .3 .1 .1 .0 .6 .3 .1	79. 99. 98. 98. 97. 95. 96. 94. 99. 98. 97. 89.	8 2 6 0 7 3 7 5 7 2 8 1 8 3 7 6	80 10 10 10 10 10 10 10 10 10 10 10 10 10	0.3 00 00 00 00 00 00 00 00 00 00 00 00 00	100 100 100
		Σ	ATE	TI	ME	DISCHARGE INSTACTOR OF THE PER SECO (0006	S- GE, T. IC ET R OND 61)	SED MEN DIS CHAR BEDL (TON DAY (802	I- T- GE, OAD S/)	SE BEDI SIE DIA % FI TH .125 (802	D. JOAD EVE M. INER IAN IAN IOM	SE BEDL SIE DIA % FI TH .250	ED. LOAD EVE AM. ENER HAN MM 228)	SE BEDL SIE DIA % FI TH .500	D. OAD VE M. NER AN MM 29)	SE BEDL SIE DIA % FI TH 1.00 (802	D. OAD VE M. NER AN MM 30)				
		JUN 01. 01. 02. 02. 03. 05. 06. 06. 08. 12. 13. 15. 16.		16 16 15 15 14 14 14 12 12 11 18 18 14	33 43 10 20 225 35 35 25 30 31 30 50 15 45 25 35	19 17 21 26 28 29 29 33 37 37 40 40 47		20. 16. 13. 11. 12. 10. 2. 5. 3. 3. 7. 7. 7. 19. 14.	8 1 2 0 6 2 2 5 0 3 0 3 0 4 0 3 0 2 2 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0		100 100 200 200 100 200 100 100 100 100	0. 1. 1. 0. 0. 0. 0. 0. 0. 0.	300 00 10 800 700 700 700 700 400 400 400 500 700 700	5. 14. 15. 12. 9. 11. 12. 11. 8. 7. 6. 5. 8.	60 0 2 9 20 1 7 4 80 10 40 30 80 30 90 30 7	14. 35. 36. 28. 25. 28. 31. 32. 24. 25. 20. 31.	6 9 0 9 4 4 1 1 1 2 0 0 2 0 0 2 2 3 3 0 0 2 2 6 6 2				

394634105465800 HOOP CREEK AT MOUTH NEAR BERTHOUD FALLS, CO--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

			DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM (80231)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM (80232)	THAN	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM (80234)	THAN	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM (80236)			
			N 01 01 02 02 02 02 03 03 055 066 068 088 12 13 12 13 15 16	27.0 60.0 58.5 45.3 48.5 52.3 54.3 56.8 42.6 47.9 50.9 40.9 24.3 334.5 53.7	38.0 80.0 80.4 57.3 73.0 74.7 75.1 78.3 61.9 71.2 75.7 60.5 38.1 49.4 44.8 71.0	43.2 92.0 94.7 67.6 90.2 92.3 88.8 93.4 82.4 91.0 88.4 91.0 80.5 51.8 60.5 54.4 83.2	44.1 95.8 98.8 73.6 96.5 96.7 96.6 100 100 100 100 100 100 100 100 991.5	44.1 100 100 75.0 100 100 100 	100 100 100 100			
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY) (80225)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM (80227)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM (80228)	THAN	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM (80230)	THAN	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM (80232)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM (80233)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM (80234)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM (80235)
JUN 16 18 20 20 23 23 26	1115 1332 1353 1025 1040 1440 1450 1044 1045	46 48 48 55 55 56 48 48	6.60 3.90 4.90 5.20 9.50 7.10 4.60 0.500 0.900	0.100 0.200 0.100 0.200 0.200 0.200 0.200 0.300 0.200	0.400 0.400 0.400 0.600 0.500 0.600 0.900 0.500	5.60 12.6 10.6 12.0 5.70 7.90 11.3 16.2 13.5	17.0 33.9 30.8 28.5 15.8 21.5 29.0 43.2 34.7	36.1 58.7 54.1 43.5 30.7 43.6 51.8 69.9 59.8	61.4 76.9 73.2 68.9 51.2 65.0 68.4 86.7	80.2 89.9 85.6 84.2 72.1 80.3 81.9 97.1 91.5	88.8 97.5 91.6 98.6 86.3 93.0 92.4 100	100 100 100 100 100 100 100

394634105465800 HOOP CREEK AT MOUTH NEAR BERTHOUD FALLS, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		DE	CEMBER			JANUARY	
1												
2												
3												
4 5												
6												
7												
8												
9 10												
11												
12												
13												
14												
15												
16												
17												
18 19												
20												
20												
21												
22												
23 24												
25												
26 27												
28												
29												
30												
31												
MONTH												
		FEBRUARY			MARCH			APRIL			MAY	
1 2						===						
1 2 3				 		 				 		
2 3 4		 			 		 		 			
2												
2 3 4		 			 		 		 			
2 3 4 5 6 7				 			 					
2 3 4 5 6 7 8							 			 		
2 3 4 5 6 7				 			 					
2 3 4 5 6 7 8 9							 					
2 3 4 5 6 7 8 9 10						 	=== === === === ===					
2 3 4 5 6 7 8 9 10				 			 					
2 3 4 5 6 7 8 9 10						 	=== === === === ===		 			
2 3 4 5 6 7 8 9 10 11 12 13				 		 				====		
2 3 4 5 6 7 8 9 10 11 12 13 14 15												
2 3 4 5 6 7 8 9 10 11 12 13 14			 			 			 			
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18				 								
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18				 								
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22										 106		 102
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23												 102 101 102
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22										 106		 102
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29												

394634105465800 HOOP CREEK AT MOUTH NEAR BERTHOUD FALLS, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		A	UGUST		5	SEPTEMBE	R
1 2 3 4 5	81 68 63 57 53	66 58 54 49 48	76 64 60 55 51	29 30 30 30 30	27 28 28 28 29	28 29 29 29 29	32 32 40 33 36	30 30 30 31 30	31 31 31 32 32	40 49 43 373 440	39 39 33 41 45	40 40 40 53 73
6 7 8 9 10	53 53 53 51 52	49 49 49 50 45	51 51 51 51 50	30 31 31 31 32	29 29 28 29 29	30 30 30 30 30	33 33 33 36 37	31 31 32 32 34	32 32 32 33 34	52 42 45 46 45	42 40 40 44 41	45 41 43 45 44
11 12 13 14	48 46 39 37 36	41 34 34 29 30	45 41 37 35 34	32 32 32 32 32	30 30 30 30 29	30 31 31 30 30	35 34 35 36 36	33 33 33 34 35	34 34 34 35 35	49 46 46 46 50	42 44 45 45	45 46 46 46 46
16 17 18 19 20	35 34 34 33 30	32 30 28 26 23	33 33 32 30 28	31 31 30 31 31	29 29 29 29 29	30 30 29 30 30	37 38 38 46 38	35 35 35 34 37	35 36 36 37 37	53 47 49 55 53	46 46 46 44 46	47 47 47 47 49
21 22 23 24 25	29 28 28 28 29	24 23 24 24 24	28 27 27 27 27	31 31 32 31 30	29 29 29 28 28	30 30 30 29 29	38 38 38 48 43	37 37 37 32 40	38 38 38 39 41	55 53 51 50 50	47 48 47 48 48	49 50 49 49
26 27 28 29 30 31	29 29 29 29 29	26 25 26 25 25	28 28 28 28 28	30 32 34 33 36 37	28 28 29 30 30	29 29 30 31 31	41 41 40 40 40	39 39 39 38 39 39	40 40 39 39 40 40	52 51 51 51 52	49 50 49 50 50	50 51 51 51 51
MONTH	81	23	39	37	27	30	48	30	36	440	33	48

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	VEMBER		DE	CEMBER			JANUARY	
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
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16												
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18												
19												
20												
21												
22												
23												
24												
25												
0.5												
26												
27												
28												
29												
30												
31												
MONTH												

394634105465800 HOOP CREEK AT MOUTH NEAR BERTHOUD FALLS, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1												
2 3												
4												
5												
6 7												
8												
9												
10												
11												
12 13												
14												
15												
16												
17 18												
19												
20												
21										4.3	1.6	2.4
22 23										2.8 4.9	1.9 1.6	2.2 2.6
24										4.0	1.7	2.4
25										4.2	1.3	2.2
26										2.6	1.0	1.6
27 28										3.1 4.2	1.2	1.7 2.4
29										3.0	2.2	2.5
30 31										5.4 6.7	2.1	3.1 3.4
MONTHIA												
MONTH												
		JUNE			JULY		1	AUGUST			SEPTEMBE:	R
1	6.4	2.2	3.3	7.5	2.8	4.5	10.0	5.1	7.0	8.7	6.7	7.5
2	5.2	2.2	3.1	8.6	2.8	4.7	10.0	5.1 5.6	7.1	8.7 10.7	6.7 6.3	7.5 8.2
2 3 4	5.2 5.6 5.5	2.2 2.0 1.9 2.1	3.1 3.2 3.3	8.6 7.8 7.6	2.8 2.2 2.6 3.1	4.7 4.8 5.0	10.0 8.8 9.9 9.9	5.1 5.6 5.0 6.0	7.1 7.1 7.6	8.7 10.7 9.5 10.2	6.7 6.3 4.4 5.3	7.5 8.2 6.9 7.3
2 3	5.2 5.6	2.2 2.0 1.9	3.1 3.2	8.6 7.8	2.8 2.2 2.6	4.7 4.8	10.0 8.8 9.9	5.1 5.6 5.0	7.1 7.1	8.7 10.7 9.5	6.7 6.3 4.4	7.5 8.2 6.9
2 3 4 5	5.2 5.6 5.5 5.3	2.2 2.0 1.9 2.1 2.3	3.1 3.2 3.3 3.2	8.6 7.8 7.6 6.8	2.8 2.2 2.6 3.1 2.9	4.7 4.8 5.0 4.6	10.0 8.8 9.9 9.9 7.8	5.1 5.6 5.0 6.0 6.1	7.1 7.1 7.6 7.0	8.7 10.7 9.5 10.2 9.7	6.7 6.3 4.4 5.3 5.4	7.5 8.2 6.9 7.3 7.1
2 3 4 5 6 7	5.2 5.6 5.5 5.3 4.2 4.6	2.2 2.0 1.9 2.1 2.3	3.1 3.2 3.3 3.2 3.0 3.0	8.6 7.8 7.6 6.8 7.9 8.4	2.8 2.2 2.6 3.1 2.9 2.9 3.0	4.7 4.8 5.0 4.6 4.6 5.2	10.0 8.8 9.9 9.9 7.8 6.1 7.7	5.1 5.6 5.0 6.0 6.1 4.5 3.4	7.1 7.1 7.6 7.0 5.4 5.4	8.7 10.7 9.5 10.2 9.7 8.1 8.5	6.7 6.3 4.4 5.3 5.4 5.5 4.6	7.5 8.2 6.9 7.3 7.1 6.7 6.3
2 3 4 5 6 7 8 9	5.2 5.6 5.5 5.3 4.2 4.6 3.7 3.6	2.2 2.0 1.9 2.1 2.3 2.2 2.2 2.3 2.0	3.1 3.2 3.3 3.2 3.0 3.0 2.8 2.8	8.6 7.8 7.6 6.8 7.9 8.4 6.3 7.7	2.8 2.2 2.6 3.1 2.9 2.9 3.0 3.6 3.1	4.7 4.8 5.0 4.6 4.6 5.2 4.8 4.9	10.0 8.8 9.9 9.9 7.8 6.1 7.7 9.4 8.1	5.1 5.6 5.0 6.0 6.1 4.5 3.4 4.2 5.1	7.1 7.6 7.0 5.4 5.4 6.3 6.6	8.7 10.7 9.5 10.2 9.7 8.1 8.5 8.7 9.0	6.7 6.3 4.4 5.3 5.4 5.5 4.6 4.4 5.2	7.5 8.2 6.9 7.3 7.1 6.7 6.3 6.3 6.8
2 3 4 5 6 7 8	5.2 5.6 5.5 5.3 4.2 4.6 3.7	2.2 2.0 1.9 2.1 2.3 2.2 2.2	3.1 3.2 3.3 3.2 3.0 3.0 2.8	8.6 7.8 7.6 6.8 7.9 8.4 6.3	2.8 2.2 2.6 3.1 2.9 2.9 3.0 3.6	4.7 4.8 5.0 4.6 4.6 5.2 4.8	10.0 8.8 9.9 9.9 7.8 6.1 7.7 9.4	5.1 5.6 5.0 6.0 6.1 4.5 3.4 4.2	7.1 7.6 7.0 5.4 5.4 6.3	8.7 10.7 9.5 10.2 9.7 8.1 8.5 8.7	6.7 6.3 4.4 5.3 5.4 5.5 4.6 4.4	7.5 8.2 6.9 7.3 7.1 6.7 6.3 6.3
2 3 4 5 6 7 8 9 10	5.2 5.6 5.5 5.3 4.2 4.6 3.7 3.6 5.4	2.2 2.0 1.9 2.1 2.3 2.2 2.2 2.3 2.0 2.4	3.1 3.2 3.3 3.2 3.0 3.0 2.8 2.8 3.3	8.6 7.8 7.6 6.8 7.9 8.4 6.3 7.7 7.3	2.8 2.2 2.6 3.1 2.9 2.9 3.0 3.6 3.1 3.6	4.7 4.8 5.0 4.6 4.6 5.2 4.8 4.9 5.2	10.0 8.8 9.9 9.9 7.8 6.1 7.7 9.4 8.1 8.0	5.1 5.6 5.0 6.0 6.1 4.5 3.4 4.2 5.1 5.8	7.1 7.1 7.6 7.0 5.4 5.4 6.3 6.6 6.7	8.7 10.7 9.5 10.2 9.7 8.1 8.5 8.7 9.0 9.4	6.7 6.3 4.4 5.3 5.4 5.5 4.6 4.4 5.2 4.8	7.5 8.2 6.9 7.3 7.1 6.7 6.3 6.3 6.8 6.7
2 3 4 5 6 7 8 9	5.2 5.6 5.5 5.3 4.2 4.6 3.7 3.6 5.4 5.6	2.2 2.0 1.9 2.1 2.3 2.2 2.2 2.3 2.0 2.4	3.1 3.2 3.3 3.2 3.0 2.8 2.8 3.3	8.6 7.8 7.6 6.8 7.9 8.4 6.3 7.7 7.3	2.8 2.2 2.6 3.1 2.9 2.9 3.0 3.6 3.1 3.6	4.7 4.8 5.0 4.6 4.6 5.2 4.8 4.9 5.2	10.0 8.8 9.9 9.9 7.8 6.1 7.7 9.4 8.1 8.0	5.1 5.6 5.0 6.0 6.1 4.5 3.4 4.2 5.1 5.8	7.1 7.6 7.0 5.4 5.4 6.3 6.6	8.7 10.7 9.5 10.2 9.7 8.1 8.5 8.7 9.0	6.7 6.3 4.4 5.3 5.4 5.5 4.6 4.4 5.2 4.8	7.5 8.2 6.9 7.3 7.1 6.7 6.3 6.3 6.8 6.7
2 3 4 5 6 7 8 9 10 11 12 13 14	5.2 5.6 5.3 4.6 3.7 3.6 5.4 5.6 5.6 5.3	2.2 2.0 1.9 2.1 2.3 2.2 2.2 2.3 2.0 2.4 2.1 2.2 2.0 2.3	3.1 3.2 3.3 3.2 3.0 2.8 2.8 3.3 3.2 3.2 3.3	8.6 7.8 7.6 6.8 7.9 8.4 6.3 7.7 7.3 6.0 7.4 8.5 9.2	2.8 2.2 2.6 3.1 2.9 2.9 3.0 3.6 3.1 3.6 4.0 3.3 3.6	4.7 4.8 5.0 4.6 4.6 5.2 4.8 4.9 5.2 5.0 5.2 5.6	10.0 8.8 9.9 9.9 7.8 6.1 7.7 9.4 8.1 8.0 7.1 7.6 8.0 7.2	5.1 5.6 5.0 6.0 6.1 4.5 3.4 4.2 5.1 5.8 4.3 4.6	7.1 7.1 7.6 7.0 5.4 5.4 6.3 6.6 6.7 5.7 5.4 5.9 5.8	8.7 10.7 9.5 10.2 9.7 8.1 8.5 8.7 9.0 9.4 8.2 9.0 7.7	6.7 6.3 4.4 5.3 5.4 5.5 4.4 5.2 4.8 5.5 4.9	7.5 8.2 6.9 7.3 7.1 6.7 6.3 6.8 6.7 6.8 6.6 9
2 3 4 5 6 7 8 9 10 11 12 13	5.2 5.6 5.5 5.3 4.2 4.6 3.7 3.6 5.4 5.6 5.6	2.2 2.0 1.9 2.1 2.3 2.2 2.2 2.3 2.0 2.4	3.1 3.2 3.3 3.2 3.0 3.0 2.8 2.8 3.3	8.6 7.8 7.6 6.8 7.9 8.4 6.3 7.7 7.3 6.0 7.4 8.5	2.8 2.2 2.6 3.1 2.9 2.9 3.0 3.6 3.1 3.6 4.0 3.3 3.6	4.7 4.8 5.0 4.6 4.6 5.2 4.8 4.9 5.2 5.2 5.2	10.0 8.8 9.9 9.9 7.8 6.1 7.7 9.4 8.1 8.0	5.1 5.6 5.0 6.0 6.1 4.5 3.4 4.2 5.1 5.8	7.1 7.6 7.0 5.4 5.4 6.3 6.6 6.7 5.7 5.4 5.9	8.7 10.7 9.5 10.2 9.7 8.1 8.5 8.7 9.0 9.4	6.7 6.3 4.4 5.3 5.4 5.4 6.4 4.6 4.2 4.8 5.5 4.3	7.5 8.2 6.9 7.3 7.1 6.7 6.3 6.3 6.7 6.8 6.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15	5.2 5.6 5.3 4.6 5.3 4.6 5.6 5.3 4.9	2.2 2.0 1.9 2.1 2.3 2.2 2.2 2.3 2.0 2.4 2.1 2.2 2.0 2.3 1.9	3.1 3.2 3.3 3.2 3.0 2.8 2.8 3.3 3.2 3.2 3.3 3.1	8.6 7.8 7.6 6.8 7.9 8.4 6.3 7.7 7.3 6.0 7.4 8.5 9.2 9.6	2.8 2.2 2.6 3.1 2.9 2.9 3.0 3.6 3.1 3.6 4.0 3.3 3.6 3.2 3.7	4.7 4.8 5.0 4.6 4.6 5.2 4.8 4.9 5.2 5.0 5.2 5.6 6.0	10.0 8.8 9.9 9.9 7.8 6.1 7.7 9.4 8.1 8.0 7.1 7.6 8.0 7.2 9.5	5.1 5.6 5.0 6.0 6.1 4.5 3.4 4.2 5.1 5.8 4.3 4.6 4.8	7.1 7.1 7.6 7.0 5.4 5.4 6.3 6.6 6.7 5.7 5.4 5.9 5.8 6.7	8.7 10.7 9.5 10.2 9.7 8.1 8.5 8.7 9.0 9.4 8.2 9.0 7.7 8.6 8.5	6.7 6.3 4.4 5.3 5.4 5.5 4.4 5.2 4.8 5.5 4.9 4.9	7.5 8.2 6.9 7.3 7.1 6.7 6.3 6.8 6.7 6.8 6.6 5.9 6.4 6.4
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	5.26 5.5.3 4.67 5.66 5.66 5.4 4.65 5.66 7.67 6.75 6.70 6.94 6.94 6.94 6.94 6.94 6.94 6.94 6.94	2.2 2.0 1.9 2.1 2.3 2.2 2.3 2.0 2.4 2.1 2.2 2.3 1.9 2.1 2.7 2.6 3.0 2.8 2.9 2.9 2.9 2.6	3.1 3.2 3.3 3.2 3.0 2.8 2.8 3.3 3.2 3.3 3.2 3.3 3.1 3.2 4.2 4.2 4.7 4.3 4.2 4.4 4.5 4.5 4.8	8.6 7.8 6.8 7.9 8.4 6.3 7.7 7.3 6.0 7.4 8.5 9.2 9.6 8.8 8.1 6.6 6.6 7.8 8.3 8.7 9.2 7.9	2.8 2.2 2.6 3.1 2.9 2.9 3.0 3.6 3.1 3.6 4.0 3.3 3.6 3.2 4.1 4.2 4.3 4.5 5.1 5.3 4.6 5.6 5.6	4.7 4.8 5.0 4.6 4.6 5.2 4.8 4.9 5.2 5.5 5.6 5.7 5.3 5.9 5.1 6.9 6.9 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6	10.0 8.8 9.9 9.9 7.8 6.1 7.7 9.4 8.1 8.0 7.2 9.5 9.1 8.3 8.0 7.9 8.6 9.1 9.7 9.1 8.3	5.6.0 5.0 6.0 6.1 5.4.2 5.1 8.3 5.3 6.4 8.0 1.5 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3	7.1 7.1 7.6 7.0 5.4 6.3 6.7 5.7 5.4 5.9 5.8 6.7 6.5 6.3 6.3 7.3 7.3 7.2 8.1 7.9	8.7 10.7 9.5 10.2 9.7 8.1 8.5 8.7 9.0 9.4 8.2 9.0 7.7 8.6 8.5 8.5 6.9 7.8 8.6 8.1 7.3 7.3 7.3 7.9	6.73 4.44 5.34 5.45 5.45 5.55 4.31 4.99 4.75 4.31 4.25 3.22 6.66 4.91 2.7	7.5 8.2 6.9 7.3 7.1 6.3 6.8 6.7 6.8 6.7 6.8 6.4 5.8 4.6 6.3 4.8 5.4 4.9 6.0 4.3 4.9 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	5.26 5.55.3 4.67 5.66 5.66 5.66 5.66 5.66 5.66 5.66 5	2.2 2.0 1.9 2.1 2.3 2.2 2.3 2.0 2.4 2.1 2.2 2.3 1.9 2.1 2.7 2.6 3.0 2.8 3.0 2.8 3.0 2.9 2.9 2.6	3.1 3.2 3.3 3.2 3.0 2.8 2.8 3.3 3.2 3.3 3.3 3.1 3.2 3.4 4.2 4.7 4.7 4.3 4.2 4.4 4.7 4.5 4.5 4.9	8.6 7.8 7.6 6.8 7.9 8.4 6.3 7.7 7.3 6.0 7.4 8.5 9.2 9.6 8.8 8.1 6.6 6.6 7.8 8.3 8.0 7.7 9.2 7.9 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9	2.8 2.2 2.6 3.1 2.9 2.0 3.6 3.1 3.6 4.0 3.3 3.6 3.2 3.7 4.0 4.1 4.2 4.3 4.0 4.5 5.1 5.6 5.6 5.6 5.5	4.7 4.8 5.0 4.6 4.6 4.8 5.2 5.2 5.5 5.6 6.7 5.7 5.9 6.6 6.9 6.3 6.6 6.7	10.0 8.8 9.9 9.9 7.8 6.1 7.7 9.4 8.1 8.0 7.2 9.5 9.1 8.0 7.9 8.6 9.1 9.7 9.7 9.1 8.3	5.6.00.1 5.6.00.1 5.6.00.1 5.8	7.1 7.1 7.6 7.0 5.4 6.3 6.7 5.7 5.4 5.9 5.8 6.7 6.6 6.5 5.8 6.3 7.3 7.2 8.1 7.3 7.6	8.7 10.7 9.5 10.2 9.7 8.1 8.5 8.7 9.0 9.4 8.2 9.0 7.7 8.6 8.5 6.9 7.8 8.6 8.1 7.3 6.5 6.1 5.3 7.9 9.9	6.34 4.45.4 5.34 5.55 4.49 4.75.93 4.31 4.22 4.31 4.32 2.66 4.17 2.4	7.5 8.9 7.3 7.1 6.3 6.8 6.7 6.8 6.6 9 6.4 6.4 5.4 6.3 4.8 5.4 6.3 4.9 6.3 4.9 6.3 4.9 6.3 4.9 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	5.26 5.5.3 4.67 5.66 5.66 5.4 4.65 5.66 7.67 6.75 6.70 6.94 6.94 6.94 6.94 6.94 6.94 6.94 6.94	2.2 2.0 1.9 2.1 2.3 2.2 2.3 2.0 2.4 2.1 2.2 2.3 1.9 2.1 2.7 2.6 3.0 2.8 2.9 2.9 2.9 2.6	3.1 3.2 3.3 3.2 3.0 2.8 2.8 3.3 3.2 3.3 3.2 3.3 3.1 3.2 4.2 4.2 4.7 4.3 4.2 4.4 4.5 4.5 4.8	8.6 7.8 6.8 7.9 8.4 6.3 7.7 7.3 6.0 7.4 8.5 9.2 9.6 8.8 8.1 6.6 6.6 7.8 8.3 8.7 9.2 7.9	2.8 2.2 2.6 3.1 2.9 2.9 3.0 3.6 3.1 3.6 4.0 3.3 3.6 3.2 4.1 4.2 4.3 4.5 5.1 5.3 4.6 5.6 5.6	4.7 4.8 5.0 4.6 4.6 5.2 4.8 4.9 5.2 5.5 5.6 5.7 5.3 5.9 5.1 6.9 6.9 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6	10.0 8.8 9.9 9.9 7.8 6.1 7.7 9.4 8.1 8.0 7.2 9.5 9.1 8.3 8.0 7.9 8.6 9.1 9.7 9.1 8.3	5.6.0 5.0 6.0 6.1 5.4.2 5.1 8.3 5.3 6.4 8.0 1.5 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3	7.1 7.1 7.6 7.0 5.4 6.3 6.7 5.7 5.4 5.9 5.8 6.7 6.5 6.3 6.3 7.3 7.3 7.2 8.1 7.9	8.7 10.7 9.5 10.2 9.7 8.1 8.5 8.7 9.0 9.4 8.2 9.0 7.7 8.6 8.5 8.5 6.9 7.8 8.6 8.1 7.3 7.3 7.3 7.9	6.73 4.44 5.34 5.45 5.45 5.55 4.31 4.99 4.75 4.31 4.25 3.22 6.66 4.91 2.7	7.5 8.2 6.9 7.3 7.1 6.3 6.8 6.7 6.8 6.7 6.8 6.4 5.8 4.6 6.3 4.8 5.4 4.9 6.0 4.3 4.9 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	5.2655.3 2.667.64 6.6663.4 9.3655.1 9.756.3 6.48.01.5 6.48.8 8.5	2.2 2.0 1.9 2.1 2.3 2.2 2.3 2.0 2.4 2.1 2.2 2.3 1.9 2.1 2.7 2.6 3.0 2.8 3.0 2.9 2.6	3.1 3.2 3.3 3.0 2.8 2.8 3.3 3.2 3.3 3.1 3.2 3.3 4.2 4.2 4.4 4.7 4.3 4.4 4.5 4.8 4.9 5.0	8.6 7.8 6.8 7.9 8.4 6.3 7.7 7.3 6.0 7.4 8.5 9.6 8.1 6.6 6.7 8.8 8.7 9.2 9.6 8.3 8.7 9.2 9.6 8.3 8.7 9.2 9.6 8.3 8.3 8.3 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2	2.8 2.2 2.6 3.1 2.9 3.0 3.6 3.1 3.6 4.0 3.3 3.7 4.0 4.2 4.1 4.2 4.3 4.5 5.1 5.6 5.6 5.6 5.6 5.6	4.7 4.8 5.6 4.6 4.6 5.2 4.8 5.2 5.2 5.5 6.0 5.7 5.3 5.3 5.9 6.6 6.3 6.6 6.6 6.7 7.0	10.0 8.8 9.9 9.9 7.8 6.1 7.7 9.4 8.1 8.0 7.2 9.5 9.1 8.0 7.9 8.6 9.1 9.0 9.7 9.1 8.3	5.6001 5.6001 5.6001 5.8425 5.84.80 5.1593 5.6480 5.55.80 6.34.35	7.1 7.16 7.0 5.4 6.3 6.7 5.7 5.4 5.9 6.7 6.6 6.7 6.5 8.3 7.3 7.3 7.2 8.1 7.9 7.0	8.7 10.7 9.5 10.2 9.7 8.1 8.5 8.7 9.0 9.4 8.2 9.0 7.7 8.6 8.5 6.9 7.8 8.6 8.1 7.3 6.5 6.1 5.3 7.9 9.7 9.7	6.73 4.44 5.34 5.55 4.49 5.55 4.99 4.77 5.93 3.14 3.52 4.93 3.14 3.52 4.93 3.14 3.52 4.93 3.14 3.52 4.93 3.14 3.26 4.93 4.93 4.93 4.93 4.93 4.93 4.93 4.93	7.52 6.9 7.31 6.7 6.8 6.8 6.7 6.8 6.6 5.4 6.4 5.4 6.3 4.8 5.4 6.3 4.9 4.5 4.4 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6

06716100 WEST FORK CLEAR CREEK ABOVE MOUTH NEAR EMPIRE, CO

 $LOCATION.--Lat~39^o45'32'', long~105^o39'34'', in~NE^{1/4}SW^{1/4}~sec. 27, T.3~S., R.74~W., Clear~Creek~County, Hydrologic~Unit~10190004, on left bank, 60~ft downstream~from~frontage~road~bridge~and~1.2~mi~east~of~Empire.$

DRAINAGE AREA.--57.6 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 8,235 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transbasin diversions. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

			DISCH	ARGE, CUBI	C FEET PER S		VATER YEAR MEAN VALU		1996 TO SE	EPTEMBER 19	97	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	34 33 34 34 34	27 26 26 26 25	e18 e18 e18 e18 e18	e16 e16 e16 e16 e16	e13 e13 e13 e13 e13	e12 e11 e11 e11 e11	19 19 19 21 19	27 26 25 27 33	270 343 387 452 474	383 351 318 302 300	124 116 118 126 127	52 53 58 55 50
6 7 8 9 10	33 32 31 31 31	e21 e18 e19 e20 e22	e19 e19 e19 e19 e19	e16 e15 e15 e15 e15	e12 e12 e12 e12 e12	e11 e12 e11 e11 e11	20 19 17 17 16	41 51 61 68 78	474 494 522 507 477	294 259 226 236 246	124 115 107 106 110	49 48 46 44 41
11 12 13 14 15	30 31 30 30 30	e21 e21 e21 e21 e21	e18 e18 e18 e18 e18	e15 e15 e14 e14 e14	e12 e12 e11 e12 e12	e11 e12 e12 e12 e12	17 20 21 20 16	82 81 85 96 108	487 520 520 520 521	258 308 299 273 245	102 95 89 86 78	43 42 39 41 39
16 17 18 19 20	30 29 31 31 32	e20 e20 e21 e21 e21	e18 e17 e17 e17 e17	e14 e14 e14 e15 e14	e12 e11 e11 e11 e11	12 13 13 13 15	17 17 20 20 23	135 166 194 208 212	528 517 535 582 638	200 194 187 184 173	73 72 73 73 70	43 39 37 37 48
21 22 23 24 25	27 28 30 29 28	e20 e20 e20 e20 e19	e17 e17 e17 e17 e17	e14 e14 e14 e14 e13	e12 e11 e11 e11 e11	16 17 18 18	28 25 25 26 27	213 234 228 228 218	644 675 605 571 575	162 155 158 158 148	65 63 61 64 63	45 44 42 38 37
26 27 28 29 30 31	28 28 28 27 27 26	e19 e18 e17 e17 e17	e16 e16 e16 e16 e16	e13 e13 e13 e13 e13	e10 e11 e12 	18 19 19 18 18	26 25 27 28 28	208 189 174 187 188 212	527 484 465 415 376	140 138 132 129 129 131	59 58 57 55 54 53	36 36 35 33 34
TOTAL MEAN MAX MIN AC-FT	937 30.2 34 26 1860	625 20.8 27 17 1240	542 17.5 19 16 1080	446 14.4 16 13 885	329 11.8 13 10 653	434 14.0 19 11 861	642 21.4 28 16 1270	4083 132 234 25 8100	15105 504 675 270 29960	6816 220 383 129 13520	2636 85.0 127 53 5230	1284 42.8 58 33 2550
STATIST	ICS OF MC	NTHLY MEA	N DATA FO	OR WATER Y	EARS 1995	- 1997,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	28.5 33.4 1996 22.0 1995	21.9 29.0 1996 15.9 1995	16.3 20.9 1996 10.4 1995	13.5 16.2 1996 9.92 1995	11.8 12.4 1996 11.1 1995	14.1 15.5 1996 12.8 1995	21.0 26.4 1996 15.3 1995	124 194 1996 47.2 1995	427 504 1997 388 1996	267 395 1995 185 1996	93.9 143 1995 54.1 1996	44.9 54.7 1995 37.2 1996
SUMMARY	STATISTI	CS	FOR 1	1996 CALEN	NDAR YEAR	F	OR 1997 WA	TER YEAR		WATER YE	ARS 1995	- 1997
ANNUAL HIGHEST LOWEST	SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN			30394 83.0	- 00		33879 92.8	- 00		90.5 94.4 84.3	_	1995 1996
LOWEST ANNUAL	LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW			514 e 10 11	Jun 22 Mar 4 Feb 27		675 e ₁₀ 11	Jun 22 Feb 26 Feb 20		720 e,a _{9.5} 9.6 b ₇₇₄	Jan 1 Jan 1	18 1995 16 1995 14 1995
INSTANT ANNUAL 10 PERC 50 PERC	ANEOUS PE ANEOUS PE RUNOFF (A ENT EXCEE ENT EXCEE	CAK STAGE AC-FT) CDS CDS		60290 290 29 14			752 6.47 67200 296 27 12	Jun 20 Jun 20		b6.67 65560 298 27 11	Jun 1	L8 1995 L8 1995

e-Estimated.

a-Also occurred Jan 17-20, 1995. b-Also occurred Jun 20, 1995.

06716500 CLEAR CREEK NEAR LAWSON, CO

LOCATION.--Lat 39°45'57", long 105°37'32", in NW1/4NW1/4 sec.25, T.3 S., R.74 W., Clear Creek County, Hydrologic Unit 10190004, on left bank at east edge of Lawson, 30 ft downstream from private bridge, and 2.0 mi downstream from West Fork Clear Creek.

DRAINAGE AREA.--147 mi².

PERIOD OF RECORD.--March 1946 to September 1986; October 1994 to current year. Records prior to 1959 include inflow from August P. Gumlick Tunnel (formerly Jones Pass tunnel).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,080 ft above sea level, from topographic map. Mar. 29, 1946 to Sept. 30, 1967, at site 1.5 mi upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow affected by minor transmountain diversion from Colorado River basin through Berthoud Pass ditch (see elsewhere in this report). No other diversion upstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

	•		DISCH	ARGE, CUBI	C FEET PER S		WATER YEAR MEAN VALU		1996 TO SI	EPTEMBER 19	97	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	82 78 79 79 77	56 53 55 56 52	e35 e35 e35 e35 e35	35 35 32 32 e30	28 28 28 27 27	28 25 25 25 25	42 41 40 44 41	62 59 58 59 71	602 723 774 876 984	758 708 665 620 600	347 319 313 330 328	135 136 148 141 129
6 7 8 9 10	74 72 70 67 67	51 43 46 51 49	e36 e35 e36 e37 e38	e31 e31 e31 e31 e30	27 27 27 28 27	28 26 26 26 25	36 38 39 39 38	88 110 128 144 170	979 1000 1070 1040 968	590 557 519 510 508	341 319 287 266 290	124 119 116 113 108
11 12 13 14 15	65 62 62 61 61	47 46 46 45 45	41 41 39 38 e33	e30 e31 e30 e31 e30	27 27 26 26 29	27 28 28 27 27	34 36 37 37 37	189 183 186 217 252	987 985 1000 1030 1030	513 544 532 509 486	295 272 245 234 213	107 108 102 101 99
16 17 18 19 20	63 59 60 67 66	44 43 48 48	e34 e33 e33 e33 e34	e30 e30 e31 e30 e30	26 27 26 26 27	28 28 28 29 33	38 40 45 47 53	301 356 409 444 458	972 956 994 1130 1250	451 440 431 436 426	201 196 195 197 187	106 99 93 93 108
21 22 23 24 25	53 53 61 61 57	44 45 44 42 40	e33 e33 e34 e33 e33	e30 e29 30 e28 e27	26 25 26 26 26	35 37 38 39 35	68 58 57 61 58	452 519 508 530 505	1250 1240 1220 1100 1010	405 393 388 388 380	175 169 158 159 165	102 103 99 93 89
26 27 28 29 30 31	58 56 57 58 53 54	40 37 38 42 e35	e34 e33 e33 36 36 35	30 29 28 28 28	26 26 25 	37 39 39 41 38 40	61 58 66 67 65	477 436 402 407 427 483	939 876 823 786 766	360 356 347 347 354 354	160 157 153 145 138 137	87 88 84 80 78
TOTAL MEAN MAX MIN AC-FT	1992 64.3 82 53 3950	1377 45.9 56 35 2730	1089 35.1 41 33 2160	936 30.2 35 27 1860	747 26.7 29 25 1480	960 31.0 41 25 1900	1421 47.4 68 34 2820 BY WATER	9090 293 530 58 18030	29360 979 1250 602 58240	14875 480 758 347 29500	7091 229 347 137 14060	3188 106 148 78 6320
MEAN MAX (WY) MIN (WY)	60.1 132 1962 35.6 1957	42.9 79.9 1985 30.2 1961	33.5 50.8 1985 24.5 1955	28.7 41.0 1971 18.2 1955	27.3 36.8 1970 16.8 1955	27.5 37.4 1971 17.6 1951	42.3 89.1 1962 26.3 1964	194 431 1958 83.4 1995	614 1000 1952 223 1954	411 943 1957 125 1954	171 404 1984 69.9 1977	88.8 193 1984 45.6 1954
SUMMARY	STATISTI	CS	FOR :	1996 CALEI	NDAR YEAR	F	OR 1997 WA	TER YEAR		WATER YE.	ARS 1946	- 1997
SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS				64503 176 1100 b28 29 127900 573	Jun 22 Feb 23 Mar 4		72126 198 a1250 c25 26 1390 6.76 143100 570	Jun 20 Feb 22 Feb 27 Jun 22 Jun 22		146 225 72.3 1660 13 15 6130 47.41 105700 425	Feb : Feb : Jun	1984 1954 17 1965 20 1955 18 1955 4 1956 4 1956
	ENT EXCEE ENT EXCEE			55 31			58 28			50 25		

e-Estimated.

a-Also occurred Jun 21. b-Also occurred Mar 6-9, and 16. c-Also occurred Feb 28, Mar 2-5, and 10. d-Site and datum then in use.

06717400 CHICAGO CREEK BELOW DEVILS CANYON, NEAR IDAHO SPRINGS, CO

 $LOCATION.--Lat\ 39^{o}42'53", long\ 105^{o}34'17", in\ NW^{1}/_{4}SW^{1}/_{4}\ sec.9,\ T.4\ S.,\ R.73\ W.,\ Clear\ Creek\ County,\ Hydrologic\ Unit\ 10190004,\ on\ right\ bank,\ 750\ ft\ upstream\ from\ Highway\ 103\ bridge,\ 5.6\ mi\ upstream\ from\ intersection\ of\ I-70\ and\ Colorado\ Highway\ 103,\ and\ 3.2\ mi\ southwest\ of\ Idaho\ Springs.$

DRAINAGE AREA.--43.7 mi².

PERIOD OF RECORD (REVISED).--October 1994 to current year. Records for May 14, 1996 (when gage was moved 750 ft upstream) to September 30, 1997, may not be equivalent to earlier records because gage was moved upstream of inflow from Devils Canyon.

GAGE.--Water-stage recorder. Elevation of gage is 8,040 ft above sea level, from topographic map. Prior to May 14, 1996, at site 750 ft downstream at different datum.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
12 11 11 10 10	9.0 9.2 8.8 8.5 e11	e6.8 e6.8 e6.8 e6.8	e5.5 e5.6 e5.7 e5.8 e5.7	e4.6 e4.6 e4.6 e4.6 e4.6	e4.5 e4.6 e4.7 e4.8 e4.9	6.4 6.9 7.5 6.9 6.4	18 16 15 17 21	71 73 69 74 85	46 44 42 42 40	31 28 31 35 33	18 19 20 19 17		
9.6 9.4 9.3 9.3 9.1	e10 e9.0 e9.3 e9.6 e10	e6.8 e7.0 e7.2 e7.4 e7.4	e5.6 e5.6 e5.5 e5.4 e5.4	e4.5 e4.6 e4.5 e4.5 e4.5	e4.8 e4.9 e4.9 e5.0 e5.0	6.7 e6.8 e7.2 e8.0 e7.8	24 29 29 30 33	87 124 126 125 122	38 37 32 26 25	42 39 35 33 37	16 16 16 15		
9.0 9.4 9.2 8.8 e9.5	e9.7 e9.6 e9.6 e9.6 e9.6	e7.6 e7.5 e7.4 e7.2 e7.0	e5.4 e5.4 e5.5 e5.5	e4.5 e4.5 e4.5 e4.5 e4.4	e5.0 e5.0 e5.1 e5.2 e5.2	e7.5 e7.5 e7.5 e7.4 e7.3	34 33 35 38 41	124 119 123 122 115	25 24 22 21 20	36 40 40 38 37	16 15 14 14 14		
e10 e10 e11 e12 e13	e9.0 e9.1 e9.2 e9.3 e9.0	e6.8 e6.8 e6.8 e6.8	e5.4 e5.4 e5.4 e5.4 e5.4	e4.5 e4.6 e4.5 e4.4 e4.4	4.6 4.5 4.6 5.0 5.6	6.7 9.4 11 13 15	46 50 53 54 55	112 105 100 97 93	20 21 22 23 21	35 35 34 32 30	14 14 15 15		
e11 e12 e13 e14 e13	e8.8 e8.6 e8.4 e8.2 e7.9	e6.8 e6.8 e6.7 e6.6 e6.4	e5.4 e5.3 e5.2 e5.1 e5.0	e4.4 e4.4 e4.4 e4.3	6.2 5.9 6.3 5.9 6.8	18 13 12 12 15	55 63 54 56 55	88 86 74 66	20 20 19 19	29 26 22 21 22	16 17 15 15		
e12 e12 e12 e11 e10 8.6	e7.7 e7.5 e7.3 e7.1 e6.9	e6.3 e6.2 e6.0 e5.8 e5.6 e5.5	e5.0 e5.0 e4.9 e4.8 e4.7 e4.6	e4.5 e4.5 e4.5	6.0 6.8 6.6 6.9	13 14 17 19 19	53 48 47 49 53 60	58 57 55 52 49	18 19 25 29 32 32	22 23 25 19 16 17	14 13 12 12 12		
331.2 10.7 14 8.6 657	266.5 8.88 11 6.9 529	209.2 6.75 7.6 5.5 415	165.0 5.32 5.8 4.6 327	125.8 4.49 4.6 4.3 250	167.8 5.41 6.9 4.5 333	314.9 10.5 19 6.4 625	1264 40.8 63 15 2510	2712 90.4 126 49 5380	842 27.2 46 18 1670	943 30.4 42 16 1870	459 15.3 20 12 910		
9.35 10.7 1997 7.70 1995	6.86 8.88 1997 4.62 1995	5.74 6.75 1997 4.10 1995	4.95 5.40 1996 4.12 1995	4.16 4.52 1996 3.45 1995	4.75 5.41 1997 3.84 1995	9.18 10.5 1997 6.85 1995	37.6 40.8 1997 35.0 1996	107 186 1995 43.3 1996	48.9 100 1995 19.1 1996	22.8 30.4 1997 9.26 1996	13.5 15.5 1995 9.64 1996		
Y STATIST	CICS	FOR	1996 CALEN	DAR YEAR	F	OR 1997 WAT	TER YEAR		WATER YEA	ARS 1995	- 1997		
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOMEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS			5120.2 14.0 55 e3.7 4.2 10160 40 9.2	May 30 Mar 27 Feb 11		7800.4 21.4 126 e4.3 4.4 175 6.51 15470 53 10	Jun 8 Feb 25 Feb 19 Jun 8 Jun 8		22.9 33.5 13.7 275 e3.1 3.2 175 6.51 16560 9.0	Feb 1 Feb 1 Jun	1995 1996 19 1995 18 1995 15 1995 8 1997 8 1997		
	12 11 11 10 10 9.6 9.4 9.3 9.3 9.1 9.0 9.4 9.2 8.8 e9.5 e10 e10 e11 e12 e13 e11 e12 e13 e14 e13 e14 e13 e14 e13 e17 e17 e18 e18 e19 e19 e10	12 9.0 11 9.2 11 8.8 10 8.5 10 e11 9.6 e10 9.4 e9.0 9.3 e9.3 9.3 e9.6 9.1 e10 9.0 e9.7 9.4 e9.6 8.8 e9.6 e9.5 e9.6 8.8 e9.6 e9.5 e9.6 e10 e9.1 e11 e9.2 e12 e9.3 e13 e9.0 e11 e8.8 e12 e8.6 e13 e8.4 e14 e8.2 e13 e7.9 e12 e7.7 e12 e7.5 e12 e7.3 e11 e7.1 e10 e6.9 8.6 e7.5 e12 e7.7 e12 e7.5 e12 e7.3 e11 e7.1 e10 e6.9 FICS OF MONTHLY MEXAGE FICS OF MONTHLY MEXAGE 9.35 6.86 10.7 8.88 14 11 8.6 6.9 657 529 FICS OF MONTHLY MEXAGE 9.35 6.86 10.7 8.88 1997 1995 FICS OF MONTHLY MEXAGE 9.35 6.86 10.7 8.88 1997 1995 FICS OF MONTHLY MEXAGE 9.35 6.86 10.7 8.88 1997 1995 FICS OF MONTHLY MEXAGE 9.35 6.86 10.7 8.88 1997 1995 FICS OF MONTHLY MEXAGE 9.35 6.86 10.7 8.88 1997 1995 FICS OF MONTHLY MEXAGE 9.35 6.86 10.7 8.88 1997 1997 7.70 4.62 1995 1995 FICS OF MONTHLY MEXAGE ENDOS PEAK STAGE RUNOFF (AC-FT) CENT EXCEEDS CENT EXCEEDS	OCT NOV DEC 12 9.0 e6.8 11 9.2 e6.8 11 8.8 e6.8 10 8.5 e6.8 10 e11 e6.8 9.6 e10 e7.0 9.3 e9.3 e7.2 9.3 e9.6 e7.4 9.1 e10 e7.4 9.0 e9.7 e7.6 9.4 e9.6 e7.5 9.2 e9.6 e7.4 8.8 e9.6 e7.2 e9.5 e9.6 e7.0 e10 e9.0 e6.8 e10 e9.1 e6.8 e11 e9.2 e6.8 e11 e9.2 e6.8 e11 e9.2 e6.8 e12 e9.3 e6.8 e11 e9.2 e6.8 e12 e9.3 e6.8 e13 e9.0 e6.8 e11 e8.8 e6.8 e12 e9.3 e6.8 e11 e9.2 e6.8 e12 e9.3 e6.8 e11 e9.2 e6.8 e12 e9.3 e6.8 e11 e8.8 e6.8 for e7.2 e8.6 e6.8 e13 e8.4 e6.7 e14 e8.2 e6.6 e13 e7.9 e6.4 e12 e7.7 e6.3 e12 e7.5 e6.2 e12 e7.3 e6.0 e11 e7.1 e5.8 e10 e6.9 e5.6 for 529 415 FICS OF MONTHLY MEAN DATA F 9.35 6.86 5.74 10.7 8.88 6.75 14 11 7.6 8.6 6.9 5.5 657 529 415 FICS OF MONTHLY MEAN DATA F 9.35 6.86 5.74 10.7 8.88 6.75 1997 1997 1997 7.70 4.62 4.10 1995 1995 1995 Y STATISTICS FOR	OCT NOV DEC JAN 12 9.0 e6.8 e5.5 11 9.2 e6.8 e5.6 11 8.8 e6.8 e5.7 10 8.5 e6.8 e5.8 10 e11 e6.8 e5.7 9.6 e10 e6.8 e5.6 9.3 e9.0 e7.0 e5.6 9.3 e9.3 e7.2 e5.5 9.3 e9.6 e7.4 e5.4 9.1 e10 e7.4 e5.4 9.1 e10 e7.4 e5.4 9.1 e10 e7.4 e5.4 9.2 e9.6 e7.5 e5.4 9.2 e9.6 e7.2 e5.5 e9.5 e9.6 e7.0 e5.5 e10 e9.0 e6.8 e5.4 e11 e9.2 e6.8 e5.4 e11 e9.2 e6.8 e5.4 e11 e9.2 e6.8 e5.4 e11 e9.2 e6.8 e5.4 e12 e9.3 e6.8 e5.4 e11 e8.8 e6.8 e5.4 e12 e9.3 e6.8 e5.4 e11 e8.8 e6.8 e5.4 e12 e7.7 e6.3 e5.0 e11 e8.8 e6.8 e5.4 e11 e8.6 e6.8 e5.3 e13 e8.4 e6.7 e5.2 e14 e8.2 e6.6 e5.1 e13 e7.9 e6.4 e5.0 e12 e7.5 e6.2 e5.0 e12 e7.5 e6.3 e3.9 e11 e7.1 e5.8 e4.8 e10 e6.9 e5.6 e4.7 e12 e7.5 e6.2 e5.0 e12 e7.3 e6.0 e4.9 e11 e7.1 e5.8 e4.8 e10 e6.9 e5.6 e4.7 e12 e7.5 e6.2 e5.0 e12 e7.5 e6.2 e5.0 e12 e7.5 e6.3 e3.9 e11 e7.1 e5.8 e4.8 e10 e6.9 e5.6 e4.7 e12 e7.5 e6.2 e5.0 e12 e7.5 e6.2 e5.0 e12 e7.7 e6.3 e5.0 e12 e7.5 e6.2 e5.0 e12 e7.7 e6.3 e5.0 e12 e7.7 e6.8 e5.0 e12 e7.7	OCT NOV DEC JAN FEB 12 9.0 e6.8 e5.5 e4.6 11 9.2 e6.8 e5.6 e4.6 11 8.8 e6.8 e5.8 e4.6 10 e11 e6.8 e5.7 e4.6 10 e11 e6.8 e5.7 e4.6 9.6 e10 e6.8 e5.6 e4.5 9.4 e9.0 e7.0 e5.6 e4.6 9.3 e9.3 e7.2 e5.5 e4.5 9.1 e10 e7.4 e5.4 e4.5 9.1 e10 e7.4 e5.4 e4.5 9.2 e9.6 e7.4 e5.4 e4.5 9.2 e9.6 e7.5 e5.4 e4.5 9.2 e9.6 e7.5 e5.4 e4.5 9.2 e9.6 e7.5 e5.4 e4.5 e9.5 e9.6 e7.0 e5.5 e4.5 e9.5 e9.6 e7.0 e5.5 e4.4 e10 e9.0 e6.8 e5.4 e4.5 e10 e9.0 e6.8 e5.4 e4.6 e11 e8.8 e6.8 e5.4 e4.6 e11 e9.2 e6.8 e5.4 e4.4 e11 e8.8 e6.8 e5.4 e4.4 e11 e8.8 e6.8 e5.4 e4.4 e12 e8.6 e6.8 e5.3 e4.4 e14 e8.2 e6.6 e5.1 e4.4 e14 e8.2 e6.6 e5.1 e4.4 e15 e7.9 e6.4 e5.0 e4.3 e12 e7.7 e6.3 e5.0 e4.5 e12 e7.5 e6.2 e5.0 e4.5 e12 e7.5 e6.2 e5.0 e4.5 e12 e7.7 e6.3 e5.0 e4.5 e12 e7.8 e6.2 e5.0 e4.5 e12 e7.7 e6.3 e5.0 e4.5 e12 e7.8 e6.2 e5.0 e4.5 e12 e7.8 e6.2 e5.0 e4.5 e12 e7.9 e6.4 e5.0 e4.5 e10 e6.9 e5.6 e4.7 e5.5 e4.6 e5.5 e4.6 331.2 266.5 209.2 165.0 125.8 10.7 8.88 6.75 5.32 4.49 14 11 7.6 5.8 e4.6 e5.5 e4.6 e5.5 e4.6 e5.5 e4.6 e7.7 e6.3 e5.0 e4.5 e10 e6.9 e5.6 e4.7 e7.9 e6.4 e5.0 e4.3 e10 e6.9 e5.6 e4.7 e e7.9 e6.4 e5.0 e4.3 e10 e6.9 e5.6 e4.7 e e7.9 e6.4 e5.0 e4.3 e10 e6.9 e5.6 e4.7 e e7.9 e6.4 e5.0 e4.3 e10 e6.9 e5.6 e4.7 e e7.9 e6.4 e5.0 e4.7 e10 e6.9 e5.6 e4.7 e e7.9 e6.1 e7.0 e7.	OCT NOV DEC JAN FEB MAR 12 9.0 e6.8 e5.5 e4.6 e4.5 11 9.2 e6.8 e5.6 e4.6 e4.6 11 8.8 e6.8 e5.7 e4.6 e4.7 10 8.5 e6.8 e5.8 e4.6 e4.8 10 e11 e6.8 e5.7 e4.6 e4.9 9.6 e10 e6.8 e5.6 e4.6 e4.9 9.4 e9.0 e7.0 e5.6 e4.6 e4.9 9.3 e9.3 e7.2 e5.5 e4.5 e4.9 9.1 e10 e7.4 e5.4 e4.5 e5.0 9.1 e10 e7.4 e5.4 e4.5 e5.0 9.1 e10 e7.4 e5.4 e4.5 e5.0 9.2 e9.6 e7.4 e5.4 e4.5 e5.0 9.2 e9.6 e7.4 e5.4 e4.5 e5.0 9.2 e9.6 e7.4 e5.4 e4.5 e5.2 e9.5 e9.6 e7.0 e5.5 e4.4 e4.5 e5.0 e10 e9.0 e6.8 e5.4 e4.5 e5.2 e9.5 e9.6 e7.0 e5.5 e4.5 e4.9 e11 e9.2 e6.8 e5.4 e4.5 e5.0 e12 e9.3 e6.8 e5.4 e4.5 4.6 e13 e9.0 e6.8 e5.4 e4.5 4.6 e14 e9.6 e7.5 e6.8 e5.4 e4.5 e5.2 e15 e9.6 e7.0 e5.5 e4.4 e5.2 e16 e9.5 e9.6 e7.0 e5.5 e4.4 e5.2 e17 e7.2 e6.8 e5.4 e4.5 e5.2 e18 e9.5 e9.6 e7.0 e5.5 e4.4 e5.2 e19 e6.8 e5.4 e4.5 e5.2 e10 e9.0 e6.8 e5.4 e4.5 e5.2 e11 e9.2 e6.8 e5.4 e4.5 e5.2 e12 e9.3 e6.8 e5.4 e4.4 5.6 e12 e9.3 e6.8 e5.4 e4.4 5.6 e12 e9.3 e6.8 e5.4 e4.4 5.6 e11 e8.8 e6.8 e5.4 e4.4 5.6 e12 e8.6 e6.8 e5.4 e4.4 5.6 e13 e8.4 e6.7 e5.2 e4.4 6.3 e14 e8.2 e6.6 e5.1 e4.4 5.9 e13 e7.9 e6.4 e5.0 e4.3 6.8 e14 e8.2 e6.6 e5.1 e4.4 5.9 e13 e7.9 e6.4 e5.0 e4.3 6.8 e14 e8.2 e6.6 e5.1 e4.4 5.9 e15 e7.5 e6.2 e5.0 e4.5 6.0 e16 e6.9 e5.5 e4.6 e 6.5 331.2 266.5 209.2 166.0 125.8 167.8 10.7 8.88 6.75 5.32 4.49 5.41 11 e7.1 e5.8 e4.8 e 6.6 e10 e6.9 e5.6 e4.7 e 6.9 8.6 e e5.5 e4.6 e 6.5 331.2 266.5 209.2 166.0 125.8 167.8 10.7 8.88 6.75 5.32 4.49 5.41 11 e7.1 e5.8 e4.8 e 6.9 e10 e6.9 e5.6 e4.7 e 6.9 8.6 e e5.5 e4.6 e 6.5 331.2 266.5 209.2 165.0 125.8 167.8 10.7 8.88 6.75 5.32 4.49 5.41 1997 1997 1997 1996 1996 1996 1997 7.70 4.62 4.10 4.12 3.45 3.84 1995 1995 1995 1995 1995 1995 Y STATISTICS FOR 1996 CALENDAR YEAR FOR LUNDER (AC-ETT) 10160 ENT EXCEEDS 40 UNINGOUS PEAK FLOW UNIN	DAILY MEAN VALUES OCT NOV DEC JAN FEB MAR APR	DAILY MEAN VALUES OCT NOV DEC JAN FEB MAR APR MAY	DAILY MEAN VALUES	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL 12 9.0 66.8 65.5 64.6 64.5 6.4 18 71 46 11 9.2 66.8 65.5 64.6 64.6 6.9 16 73 44 11 8.8 66.8 65.6 64.6 64.7 7.5 15 69 10 8.5 66.8 65.8 64.6 64.7 7.5 15 69 10 8.5 66.8 65.8 64.6 64.8 6.9 17 74 42 10 e11 66.8 65.7 64.6 64.9 6.9 17 74 42 10 e11 66.8 65.6 64.6 64.9 67.7 74 42 10 e11 66.8 65.6 64.6 64.9 67.7 74 42 10 e11 66.8 65.6 64.5 64.9 67.9 17 74 42 10 e11 66.8 65.6 64.5 64.9 67.9 17 74 42 10 e11 66.8 65.6 64.5 64.9 67.9 17 74 42 10 e11 66.8 65.6 64.5 64.9 67.9 17 74 42 10 e11 66.8 65.6 64.5 64.9 67.9 17 74 42 10 e11 66.8 65.6 64.5 64.9 67.9 17 74 42 10 e11 66.8 65.6 64.5 64.9 67.2 29 124 37 38 67 87 87 87 87 87 87 87 87 87 87 87 87 87	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG 12 9.0 6.8 6.5.6 6.4.6 6.4.5 6.9 16 73 44 231 11 9.2 6.8 6.5.6 6.4.6 6.4.6 6.9 16 73 44 231 110 611 66.8 65.7 6.4.6 6.4.5 6.9 16 73 44 231 110 8.5 66.8 65.7 6.4.6 6.4.8 6.9 17 74 42 35 110 611 66.8 65.7 6.4.6 6.4.9 6.9 17 74 42 35 110 610 61. 66.8 65.7 64.6 64.9 6.9 17 74 42 35 110 610 61. 66.8 65.7 64.6 64.9 6.9 17 74 42 35 110 610 61. 66.8 65.7 64.6 64.9 6.9 17 74 42 35 110 610 61. 66.8 65.7 64.6 64.9 6.9 17 74 42 35 110 610 61. 66.8 65.7 64.6 64.9 6.9 17 74 42 35 110 610 610 66.8 65.7 64.6 64.9 6.9 17 74 42 35 110 610 610 66.8 65.7 64.6 64.9 66.8 29 124 37 39 1.3 69.3 67.2 65.5 64.5 64.9 67.2 29 124 37 39 1.3 69.3 67.2 65.5 64.5 64.9 67.2 29 124 37 39 1.3 69.3 67.2 65.5 64.5 64.9 67.8 33 122 25 37 1.4 610 67.4 65.4 64.5 65.0 67.8 33 122 25 37 1.4 610 67.4 65.4 64.5 65.0 67.8 33 122 25 37 1.4 610 67.4 65.4 64.5 65.0 67.8 33 122 25 37 1.4 610 67.4 65.4 64.5 65.0 67.8 33 122 25 36 1.5 6.5 69.6 67.0 65.5 64.4 64.5 65.1 67.8 33 122 25 36 1.5 6.5 69.6 67.0 65.5 64.4 64.5 65.1 67.5 34 124 25 36 1.6 67.4 65.5 64.5 65.1 67.5 33 129 24 40 1.8 6.5 69.5 69.6 67.0 66.8 65.4 64.5 65.2 67.3 34 124 25 36 1.8 6.5 69.6 67.0 66.8 65.4 64.5 65.2 67.3 34 122 20 37 1.4 610 69.0 66.8 65.4 64.5 65.2 67.3 34 122 20 37 1.4 610 69.0 66.8 65.4 64.5 65.2 67.3 34 122 20 37 1.4 610 69.0 66.8 65.4 64.5 65.1 67.4 35 122 20 37 1.4 610 69.0 66.8 65.4 64.5 65.2 67.3 34 122 20 32 32 1.4 69.3 66.8 65.4 64.5 65.0 67.0 13 54 19 10 22 21 35 1.4 611 69.1 66.8 65.4 64.5 65.0 67.0 13 54 19 10 22 21 35 1.4 612 69.3 66.8 65.4 64.5 65.0 67.0 13 54 19 10 22 21 35 1.4 612 69.3 66.8 65.4 64.5 65.0 67.0 13 54 19 10 22 20 37 1.4 610 69.0 66.8 65.4 64.5 65.0 67.0 13 55 19 10 10 22 20 37 1.4 610 69.0 66.8 65.4 64.5 65.0 67.0 13 55 19 10 10 22 20 37 1.4 610 69.0 66.8 65.4 64.5 65.0 67.0 13 55 19 10 10 10 10 10 10 10 10 10 10 10 10 10		

e-Estimated.

06718300 CLEAR CREEK ABOVE JOHNSON GULCH NEAR IDAHO SPRINGS, CO

 $LOCATION.--Lat~39^o44'47'', long~105^o26'08'', in~NE^{1/4}SW^{1/4}~sec. 34,~T.3~S.,~R.72~W.,~Clear~Creek~County,~Hydrologic~Unit~10190004,\\ on~left~bank~150~ft~downstream~from~I-70~exit~243~bridge~over~Clear~Creek,~and~2~mi~east~of~Idaho~Springs.$

DRAINAGE AREA.--267 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 7,210 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges which are poor. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

			DISCH	ARGE, CUB	IC FEET PER S		WATER YEAR MEAN VALU		1996 TO S	EPTEMBER 1	997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	136 129 128 128 127	e85 e78 e76 e74 e72	e54 e54 e53 e52 e53	e38 e39 e38 e38 e39	e35 e35 e35 e35 e34	e36 e37 e36 e36 e37	e60 e61 e63 e66 e60	116 110 107 109 128	869 1010 1040 1150 1280	1000 941 894 825 792	460 417 413 476 464	227 222 250 239 200
6 7 8 9 10	124 120 117 114 113	e60 e54 e60 e64 e60	e52 e51 e51 e50 e50	e40 e39 e39 e38 e39	e34 e34 e34 e33	e37 e38 e39 e40 e43	e58 e56 e56 e55 e54	154 e200 e202 e209 e215	1280 1430 1450 1410 1320	764 716 665 636 632	504 459 409 380 418	174 168 162 158 171
11 12 13 14 15	113 112 111 110 109	e64 e64 e63 e62 e62	e51 e50 e50 e49 e48	e39 e39 e39 e39 e38	e34 e34 e35 e36 e35	e45 e45 e45 e45 e45	e54 e53 e54 e58 e61	e220 e230 e240 e250 e270	1360 1360 1380 1390 1390	635 674 655 621 598	418 394 364 346 313	172 174 163 160 158
16 17 18 19 20	111 109 109 118 116	e62 e62 e63 e64 e64	e48 e47 e47 e45 e46	e39 e38 e38 e37 e37	e36 e37 e36 e35 e34	e45 e44 e45 e45 e44	e70 e80 e93 e102 e106	e290 e340 e400 e490 e580	1330 1310 1340 1470 1560	551 538 532 539 526	298 293 289 288 276	154 149 141 140 162
21 22 23 24 25	100 101 110 115 105	e62 e62 e60 e59 e58	e46 e45 e44 e43 e44	e36 e37 e38 e37 e36	e34 e35 e36 e36 e36	e45 e45 e45 e45 e45	108 95 93 99	e660 e600 e570 e560 e530	1520 1500 1480 1380 1270	497 479 469 480 475	254 243 227 225 239	154 153 147 141 137
26 27 28 29 30 31	e100 e99 e96 e94 e92 e91	e57 e56 e56 e56 e55	e43 e42 e41 e40 e39 e40	e37 e38 e38 e37 e36 e35	e36 e36 e35 	e47 e49 e50 e52 e54 e57	102 100 112 117 119	e480 e500 e550 e600 e650 681	1200 1150 1100 1060 1020	441 435 432 442 467 472	233 228 229 222 213 224	138 139 132 127 125
TOTAL MEAN MAX MIN AC-FT	3457 112 136 91 6860	1894 63.1 85 54 3760	1468 47.4 54 39 2910	1175 37.9 40 35 2330	979 35.0 37 33 1940	1361 43.9 57 36 2700	2363 78.8 119 53 4690	11241 363 681 107 22300	38809 1294 1560 869 76980	18823 607 1000 432 37340	10216 330 504 213 20260	4937 165 250 125 9790
MEAN MAX (WY) MIN (WY)	97.5 116 1996 65.0 1995	62.8 75.6 1996 49.6 1995	50.5 60.8 1996 43.2 1995	42.2 54.6 1996 34.1 1995	37.3 46.2 1996 30.5 1995	45.5 49.4 1996 43.1 1995	71.3 85.2 1996 49.9 1995	378 549 1996 221 1995	1235 1325 1995 1086 1996	854 1398 1995 557 1996	322 441 1995 195 1996	164 189 1995 140 1996
SUMMARY	STATISTI	CS	FOR	1996 CALE	NDAR YEAR	F	OR 1997 WA	ATER YEAR		WATER Y	EARS 1995	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT		AN AN MINIMUM CAK FLOW		91033 249 1380 e ₃₉ 41	Jun 22 Dec 30 Dec 25		96723 265 1560 e ₃₃ 34 1690 7.33	Jun 20 Feb 10 Feb 5 Jun 20 3 Jun 20		281 326 251 2080 a27 27 2250 b7.4	Feb 1 Feb 1 Jun 2	1995 1996 22 1995 16 1995 13 1995 21 1995
ANNUAL 10 PERC 50 PERC	RUNOFF (A ENT EXCEE ENT EXCEE	AC-FT) IDS IDS		180600 840 96 46			191900 735 102 37			203300 898 81 38		

e-Estimated.

e-Estimated. a-Also occurred Feb 17-19. b-Maximum gage height, 8.23 ft, Jun 17, 1995.

06718550 NORTH CLEAR CREEK ABOVE MOUTH NEAR BLACKHAWK, CO

LOCATION.--Lat $39^{\circ}44'56''$, long $105^{\circ}23'57''$, in NE $^{1}/_{4}SW^{1}/_{4}$ sec. 36, T.3 S., R.72 W., Clear Creek County, Hydrologic Unit 10190004, on left bank 150 ft upstream from intersection of Hwy 6 and Hwy 119 bridge over North Clear Creek, 0.2 mi above mouth, and 6.5 mi southeast of Blackhawk.

DRAINAGE AREA.--59.4 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 6,910 ft above sea level, from topographic map.

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

	•		DISCHAR	GE, CUBIC F	EET PER SE		TER YEAR OO EAN VALUES	CTOBER 199	6 TO SEPT	EMBER 1997	,	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	5.0 4.7 4.6 4.4 4.0	3.8 3.5 3.7 3.8 3.5	2.9 e3.1 e3.0 e3.0 e3.0	3.2 3.4 3.4 3.0 e2.9	e2.4 e2.4 e2.4 e2.4 e2.4	e2.6 e2.7 e2.7 e2.8 e2.8	9.1 8.1 11 12 11	30 29 29 31 36	95 108 112 118 118	46 e50 e48 e43 e40	18 14 12 17 18	6.5 6.7 6.5 7.0 5.9
6 7 8 9 10	3.8 3.6 3.5 3.4 3.3	3.2 2.1 3.4 3.6 3.5	e3.0 e3.0 e3.0 e3.1 e3.2	e2.9 e2.9 e3.0 e3.0	e2.4 e2.4 e2.3 e2.3 e2.3	e2.9 e3.0 e3.2 e3.4 4.2	8.7 9.0 9.6 9.0 9.3	41 45 49 51 55	130 232 195 196 204	e37 e34 e30 e26 e23	20 17 12 10 14	5.1 4.8 4.4 4.2 4.0
11 12 13 14 15	3.3 3.3 3.3 3.2 3.3	3.2 3.3 3.3 3.2 3.4	e3.3 e3.2 e3.1 e3.1 e3.1	e2.9 e2.9 e3.0 e3.0	e2.3 e2.2 e2.2 e2.2 e2.1	4.9 6.0 5.7 5.9 5.6	e9.0 e9.0 e9.0 8.3 8.9	58 56 61 71 81	195 195 169 150 134	e18 18 18 18	13 10 10 8.0 7.3	4.4 5.0 4.0 3.8 3.7
16 17 18 19 20	3.4 3.5 3.1 3.8 4.1	2.4 2.9 4.4 4.2 4.0	e3.0 e3.0 e3.0 e3.0 e3.0	e3.1 e3.1 e3.0 e3.0 e2.9	2.2 e1.9 e2.0 e2.0 e2.1	5.5 6.1 5.5 5.8 7.4	9.9 12 14 16 17	93 111 119 125 114	122 112 100 94 88	15 14 16 15 15	6.5 7.2 6.6 6.1 6.0	3.8 3.7 3.6 3.8 5.7
21 22 23 24 25	3.1 2.7 3.6 3.6 3.6	3.5 3.5 3.5 2.7 3.1	e3.0 e3.0 e3.0 e3.0 e3.0	e2.9 e2.8 e2.8 e2.7 e2.7	e2.1 e2.2 e2.2 e2.2 e2.3	8.3 8.8 9.2 9.7 9.1	21 19 19 19 21	112 134 128 128 117	81 76 68 66 65	13 11 9.9 9.7	5.6 5.4 5.1 4.9 5.5	5.0 8.5 7.1 6.5 4.9
26 27 28 29 30 31	3.6 3.6 3.7 3.8 3.5	2.7 2.4 2.6 3.0 3.4	2.9	e2.6 e2.5 e2.5 e2.5 e2.5 e2.4	e2.4 e2.4 e2.5 	9.0 9.9 9.1 9.5 8.4 8.7	21 22 25 27 29	108 94 85 86 82 83	64 59 56 52 47	11 9.5 11 13 18 21	6.3 5.9 6.5 4.9 5.1 5.0	4.6 4.4 4.2 4.0 3.9
TOTAL MEAN MAX MIN AC-FT	113.0 3.65 5.0 2.7 224	98.8 3.29 4.4 2.1 196	94.3 3.04 3.3 2.9 187	89.5 2.89 3.4 2.4 178	63.2 2.26 2.5 1.9 125	188.4 6.08 9.9 2.6 374	432.9 14.4 29 8.1 859	2442 78.8 134 29 4840	3501 117 232 47 6940	678.1 21.9 50 9.5 1350	292.9 9.45 20 4.9 581	149.7 4.99 8.5 3.6 297
							BY WATER Y					
MEAN MAX (WY) MIN (WY)	4.02 5.32 1996 3.08 1995	3.41 4.25 1996 2.68 1995	2.92 4.03 1996 1.68 1995	2.59 3.59 1996 1.30 1995	2.18 2.89 1996 1.38 1995	4.31 6.08 1997 2.21 1995	12.5 15.3 1996 7.60 1995	89.8 112 1995 78.4 1996	136 228 1995 61.7 1996	28.3 49.7 1995 13.4 1996	8.03 10.3 1995 4.33 1996	5.34 6.64 1995 4.38 1996
SUMMARY	STATISTI	CS	FOR 1	1996 CALEN	DAR YEAR	F	OR 1997 WAT	TER YEAR		WATER Y	EARS 1995	- 1997
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN				6065.0 16.6			8143.8 22.3			24.9 35.6 16.9		1995 1996
LOWEST ANNUAL	HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW			116 2.1 2.7	May 19 Nov 7 Feb 10		232 e _{1.9} 2.1 512	Jun 7 Feb 17 Feb 15 Jun 7		415 1.2 1.3 a ₇₅₉	Jan Jan	31 1995 18 1995 12 1995 2 1995
INSTANT ANNUAL 10 PERC 50 PERC	CANEOUS PERUNOFF (ACENT EXCEE CENT EXCEE	AK STAGE C-FT) DS DS		12030 71 4.0 3.0			5.65 16150 81 5.0 2.6	Jun 7		5.8' 18050 81 4.8 2.1		2 1995

e-Estimated. a-From rating curve extended above 300 ${\rm ft}^3/{\rm s}$.

06719505 CLEAR CREEK AT GOLDEN, CO

LOCATION.--Lat 39°45'11", long 105°14'05", in NE1/4NW1/4 sec.33, T.3 S., R.70 W., Jefferson County, Hydrologic Unit 10190004, on left bank 100 ft downstream from U.S. Highway 6 bridge at west edge of Golden, 0.7 mi downstream from headgate of Church ditch, and 13.3 mi downstream from North Clear Creek.

DRAINAGE AREA.--400 mi².

PERIOD OF RECORD.--October 1974 to current year. Records for station at site 0.8 mi upstream (October 1908 to December 1909, June 1911 to September 1974) are not equivalent due to diversions by Church ditch. Water-quality data available, November 1977 to August 1995. Sediment data available, April to September 1981, and April 1993 to August 1995.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,695 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by minor transmountain diversions from Colorado River basin through Berthoud Pass ditch (see elsewhere in this report) and several small reservoirs upstream from station. Diversion by Welch ditch 1.4 mi upstream from station and by Church Ditch 0.7 mi upstream from station for irrigation of about 5,200 acres downstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

			DISCHAR	GE, CUBIC I			TER YEAR O EAN VALUES		6 TO SEP	ΓEMBER 1997		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	98 92 90 89 86	78 73 73 74 67	49 50 53 40 e40	e52 e52 e52 e47 47	e62 e62 e60 e60	51 52 52 45 45	63 65 61 79 78	138 123 116 118 146	876 1060 1100 1210 1370	959 881 840 775 744	403 352 340 440 406	192 189 206 215 188
6 7 8 9 10	83 78 77 83 80	63 57 58 72 65	e45 e50 e56 e60 e60	e47 e48 e50 e52 e52	e60 e60 e60 e60 e56	47 52 52 50 49	57 58 61 55 51	180 216 243 260 283	1390 1610 1600 1620 1470	713 660 609 576 564	482 426 362 322 353	152 145 139 133 149
11 12 13 14 15	82 81 81 79 77	60 60 60 59 61	e60 e56 55 55 e54	e54 57 e54 e54 e54	e56 e56 e56 e58 e60	52 57 53 48 50	45 51 52 51 50	310 299 300 339 374	1470 1500 1570 1560 1550	552 604 587 545 521	366 335 308 288 264	152 159 147 145 140
16 17 18 19 20	79 79 74 84 84	62 55 69 65	e54 e54 e54 e52 e51	e54 e52 e54 e54 e54	e54 e48 46 44 45	51 56 54 53 59	55 58 67 74 85	421 497 584 639 676	1430 1400 1400 1550 1700	460 444 439 440 442	245 241 239 236 230	132 129 125 121 149
21 22 23 24 25	69 64 90 104 95	62 60 60 57 53	e50 e50 e50 e50 e50	e54 e54 e54 e54 e54	49 47 51 47 49	63 63 67 73 62	112 95 81 104 91	644 790 751 801 754	1660 1600 1570 1430 1330	416 401 385 398 394	207 201 186 179 194	142 146 137 134 119
26 27 28 29 30 31	91 86 84 87 77 72	54 49 45 51 59	e50 e50 e52 e52 e52 e52	e54 e54 e56 e58 e60 e62	57 54 48 	64 63 58 62 54 60	105 99 125 135 140	692 599 550 548 585 654	1240 1170 1100 1040 977	366 357 360 372 400 405	189 187 188 184 176 190	123 124 117 112 109
TOTAL MEAN MAX MIN AC-FT	2575 83.1 104 64 5110	1846 61.5 78 45 3660	1606 51.8 60 40 3190	1654 53.4 62 47 3280	1525 54.5 62 44 3020	1717 55.4 73 45 3410	2303 76.8 140 45 4570	13630 440 801 116 27040	41553 1385 1700 876 82420	16609 536 959 357 32940	8719 281 482 176 17290	4370 146 215 109 8670
STATIST	CICS OF MC	NTHLY MEA	N DATA FO	OR WATER	YEARS 1975	- 1997,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	83.1 192 1985 54.3 1982	60.8 115 1985 39.2 1982	48.3 86.6 1984 33.5 1990	42.5 70.5 1984 29.3 1995	41.5 66.9 1985 25.9 1995	42.8 58.9 1984 31.2 1976	71.2 112 1984 39.0 1982	307 655 1984 123 1981	805 1522 1995 382 1977	480 1203 1995 161 1977	206 475 1984 100 1977	125 231 1984 78.8 1977
SUMMARY	STATISTI	CS	FOR 3	1996 CALE	NDAR YEAR	F	OR 1997 WA	TER YEAR		WATER YE	EARS 1975	- 1997
ANNUAL HIGHEST LOWEST HIGHEST ANNUAL INSTANT	NUAL TOTAL NUAL MEAN IGHEST ANNUAL MEAN USEST ANNUAL MEAN USEST DAILY MEAN UWEST DAILY MEAN NUAL SEVEN-DAY MINIMUM USTANTANEOUS PEAK FLOW USTANTANEOUS PEAK STAGE UNUAL RUNOFF (AC-FT)			1290 e,a ₃₄ 34	Jun 22 Jan 1 Jan 1		98107 269 1700 b40 47 1860 7.75	Jun 20 Dec 4 Dec 1 Jun 20 Jun 20		193 321 109 2300 18 24 2370 c6.44	Dec Feb Jul 1	1995 1977 17 1995 2 1981 6 1986 10 1983
10 PERC 50 PERC	RUNOFF (A ENT EXCEE ENT EXCEE	DS DS		159500 759 82 40			194600 762 81 50			140000 543 77 36		

e-Estimated. a-Also occurred Jan 2-7.

b-Also occurred Dec 5. c-Maximum gage height, 8.10 ft, Jun 21, 1995.

06720500 SOUTH PLATTE RIVER AT HENDERSON, CO

LOCATION.--Lat 39°55'19", long 104°52'00", in SE¹/4NE¹/4 sec.34, T.1 S., R.67 W., Adams County, Hydrologic Unit 10190003, on right bank 500 ft upstream from bridge on State Highway 22, and 0.2 mi northwest of Henderson.

DRAINAGE AREA.--4,713 mi².

PERIOD OF RECORD.--May 1926 to current year. Prior to October 1933, monthly discharge only, published in WSP 1310. Statistical summary computed for 1976 to current year. Water-quality data available, July 1955 to September 1957, June 1962 to September 1973, and April 1988 to September 1995.

REVISED RECORDS.--WSP 1310: 1934-36(M). WSP 1730: Drainage area. WDR C0-88-1: 1986.

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

REMARKS .-- No estimated daily discharges. Records good except for period Apr. 3 to May 8, which is fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, ground-water withdrawals, diversions for irrigation of about 253,000 acres, and return flow from irrigated areas.

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

			DISC	HARGE, CU	BIC FEET PER		, WATER Y Y MEAN V		R 1996 TO	SEPTEMBER	1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	294 272 280 279 279	290 317 373 557 519	221 233 214 209 208	286 279 247 203 192	361 369 372 356 352	356 367 338 338 342	74 188 164 452 1360	264 247 234 214 212	755 1040 1080 1300 1330	703 471 437 492 553	1990 1310 1010 1440 2910	488 706 635 573 1870
6 7 8 9 10	282 291 305 301 318	479 465 459 438 290	205 207 211 261 299	199 252 387 389 388	373 382 384 374 380	341 311 278 279 276	491 383 198 240 343	214 220 224 305 362	1800 4650 3040 2720 2520	581 520 421 487 650	3670 1890 1170 1050 1130	612 562 562 458 399
11 12 13 14 15	295 276 264 285 287	286 271 232 219 212	301 297 297 300 298	380 383 399 393 401	350 284 272 278 284	252 247 254 292 295	490 403 346 316 179	357 398 358 355 381	2370 2300 2880 3310 3180	639 630 549 519 467	2370 2290 1550 1410 1090	382 365 331 310 291
16 17 18 19 20	285 282 275 277 281	258 233 247 235 227	301 296 374 387 415	394 379 395 416 428	277 273 282 439 378	274 251 243 241 199	136 109 61 31 51	366 388 424 530 440	2840 2320 2310 2260 2330	451 551 526 770 799	945 1030 856 610 555	342 395 359 388 664
21 22 23 24 25	304 291 292 326 323	210 218 217 220 219	441 473 468 427 390	422 385 386 370 367	425 369 376 423 351	113 92 88 118 137	88 106 121 2560 1500	380 886 819 552 524	2140 1920 1900 1760 1530	692 655 774 738 720	478 535 570 483 467	507 520 894 688 523
26 27 28 29 30 31	621 398 348 339 327 304	218 222 223 201 211	384 309 301 290 291 289	370 366 364 375 373 359	357 352 349 	92 77 71 88 97 85	782 375 317 304 297	499 457 403 537 622 574	1530 1180 1040 962 851	679 778 2100 3060 1240 2440	438 414 325 449 485 444	536 564 538 515 486
TOTAL MEAN MAX MIN AC-FT	9581 309 621 264 19000	8766 292 557 201 17390	9597 310 473 205 19040	10927 352 428 192 21670	9822 351 439 272 19480 YEARS 1976	6832 220 367 71 13550	12465 416 2560 31 24720	12746 411 886 212 25280	61148 2038 4650 755 121300	25092 809 3060 421 49770	35364 1141 3670 325 70140	16463 549 1870 291 32650
MEAN MAX (WY) MIN (WY)	341 1835 1985 144 1978	322 1268 1985 173 1978	290 554 1984 177 1976	313 592 1984 155 1977	319 642 1984 156 1977	360 842 1983 118 1982	501 1732 1983 140 1982	1101 3923 1980 324 1986	1298 4796 1995 334 1981	835 3204 1995 269 1994	640 2074 1984 279 1977	386 1141 1984 157 1977
SUMMARY	STATIST	ICS	FOR		ENDAR YEAR	F		WATER YEAR		WATER Y	EARS 1976	- 1997
LOWEST	MEAN ANNUAL ANNUAL M	IEAN		152956 418 3600	Ma 26		218803 599	T 7		a ₅₆₀ 1379 252	Torr	1983 1981
HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW				3600 89 168	May 26 Mar 13 Apr 17		4650 31 81 7960	Jun 7 Apr 19 Apr 17 Jul 29		d ₁₂₃₀₀	Apr Mar Jun	9 1995 7 1977 13 1982 27 1983
ANNUAL 10 PERC 50 PERC	ANNUAL SEVEN-DAY MINIMUM			303400 678 324 212			8. 434000 1380 375 212	46 Jul 29		f7.5 405700 1060 332 177	8 Jun	27 1983

a-Average discharge for 48 years (water years 1927-74), 366 ft³/s; 265200 acre-ft/yr, prior to completion of Chatfield Dam. b-Maximum daily discharge for period of record, 13200 ft³/s, May 7, 1973. c-Minimum daily discharge for period of record, 4.4 ft³/s, Apr 1, 1950. d-Maximum discharge and stage for period of record, 33000 ft³/s, May 6, 1973, gage height, 11.67 ft, from rating curve extended above 7200 ft³/s, partly on basis of flow-over-road measurement of peak flow; maximum gage height, 12.93 ft, Jun 17, 1965, site and datum then in use.

f-Maximum gage height for statistical period, 9.91 ft, May 17, 1995.

06720820 BIG DRY CREEK AT WESTMINSTER, CO

LOCATION.--Lat 39°54′20″, long 105°02′04″, in NE¹/4SE¹/4 sec.6, T.2 S., R.68 W., Adams County, Hydrologic Unit 10190003, on left bank 0.75 mi upstream from bridge on 120th Ave., and 5.2 mi downstream from outlet of Standley Lake.

DRAINAGE AREA.--43.8 mi².

PERIOD OF RECORD.--July 1987 to September 1995, November 1996 to September 1997.

REVISED RECORDS.--WDR CO-91-1: Drainage area.

GAGE.--Water-stage recorder and concrete and steel control. Elevation of gage is 5,215 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow affected by storage diversions, ground-water withdrawals and diversions for irrigation and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 378 ft³/s, Aug. 4 and 5, 1997, gage height, 6.08 ft; minimum daily, 0.16 ft³/s, Jan. 12, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period from November to September, 378 ft³/s, Aug. 4, at 2030, and Aug. 5, at 2315, gage height 6.08 ft; minimum daily, 0.81 ft³/s, Dec. 19.

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

						DAILY MI	EAN VALUI	ES				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			2.3	1.5	2.7	2.7	1.2	24	53	84	30	21
2			1.7	1.5	2.4	2.9	3.9	21	52	84	27	27
3			1.6	1.5	2.3	3.1	2.7	9.9	52	82	24	32
4			1.5	1.3	1.4	1.7	10	9.2	52	82	108	21
5			1.7	1.2	1.2	1.5	15	7.9	58	87	130	25
6			1.8	1.2	1.2	1.4	4.7	7.0	88	89	151	18
7			1.5	1.1	1.5	1.4	3.8	6.2	96	88	35	17
8			1.6	1.3	1.6	1.4	3.3	4.8	26	75	14	24
9			1.7	1.3	1.5	1.4	2.8	9.6	31	31	7.7	46
10			1.6	1.2	1.3	1.3	3.8	6.3	42	31	12	38
11			1.4	1.1	1.3	1.3	30	5.7	57	31	17	40
12			1.4	1.2	1.3	1.3	31	8.0	51	32	22	38
13			1.3	1.2	1.5	1.4	33	4.4	50	37	16	39
14			1.3	1.2	e2.0	2.5	5.3	18	50	42	11	39
15			1.2	1.3	e3.0	1.5	2.2	60	46	41	8.0	41
16			1.2	1.3	e6.0	1.3	3.2	70	46	41	9.0	45
17			1.2	1.3	e9.2	1.6	1.9	66	38	41	9.4	40
18			1.0	1.5	e8.6	2.2	1.5	66	24	44	11	41
19			.81	3.2	5.5	1.6	1.5	70	32	67	18	44
20		e2.0	.93	3.0	6.1	1.5	1.5	73	36	57	20	46
21		2.0	1.3	2.3	6.0	1.4	1.4	73	37	48	21	24
22		1.7	4.6	2.0	4.9	1.5	1.3	91	41	38	14	16
23		1.5	4.0	1.8	4.9	1.5	4.1	74	44	54	9.8	24
24		1.5	2.9	1.1	4.5	4.3	92	71	49	49	11	12
25		1.5	3.1	.88	3.8	3.9	86	66	67	42	19	9.5
26		1.5	2.8	1.8	3.9	2.8	47	60	81	41	19	9.4
27		1.6	3.0	1.8	2.9	2.2	23	56	69	42	22	8.7
28		1.8	2.5	1.8	2.4	1.6	10	49	71	48	31	8.8
29		1.6	2.1	2.2		1.4	12	50	75	54	31	9.3
30		2.9	1.8	2.5		1.3	7.7	53	77	106	29	6.7
31			1.7	2.8		1.3		53		62	21	
TOTAL			58.54	50.38	94.9	58.2	446.8	1243.0	1591	1750	907.9	810.4
MEAN			1.89	1.63	3.39	1.88	14.9	40.1	53.0	56.5	29.3	27.0
MAX			4.6	3.2	9.2	4.3	92	91	96	106	151	46
MIN			.81	.88	1.2	1.3	1.2	4.4	24	31	7.7	6.7
AC-FT			116	100	188	115	886	2470	3160	3470	1800	1610

 $e ext{-}Estimated.$

06720990 BIG DRY CREEK AT MOUTH NEAR FORT LUPTON, CO

LOCATION.--Lat 40°04'09", long 104°49'52", in NE¹/4SE¹/4 sec.12, T.1 N., R.67 W., Weld County, Hydrologic Unit 10190003, on left bank 1.0 mi west of State Highway 85, 1.1 mi south of State Highway 52, and 25 mi northeast of Denver.

DRAINAGE AREA.--107 mi².

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,900 ft above sea level, from topographic map.

REMARKS.--Records poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation, and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

Sup	piementai	water-Qu			EET PER SEC	OND, WA	TER YEAR OC EAN VALUES		5 TO SEPT	EMBER 1997		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	63 59 59 55	e22 e22 e22 e22 e22	19 19 18 17 16	e23 e23 e22 e22 e22	e23 e23 e23 e23 e23	23 23 23 23 24	30 31 43 48 78	32 45 38 26 34	48 49 47 48 41	21 20 13 11 34	134 68 37 33 273	41 65 67 70 102
6 7 8 9 10	51 50 44 48 48	e22 e22 e22 e22 e22	15 18 18 19	e22 e22 e22 e22 e23	e23 e23 e23 e23 e23	24 24 24 24 23	84 72 63 65 63	26 26 21 22 20	50 249 124 68 62	27 15 12 11 12	409 372 97 62 57	78 69 67 61 55
11 12 13 14 15	42 36 33 33 26	e22 e22 e22 e22 e29	19 19 19 18 21	e23 e23 e23 e23 e23	e23 e23 e23 e23 e23	21 18 19 19	70 93 93 86 51	22 21 18 16 16	46 42 42 45 37	12 16 19 21 22	64 64 57 51 35	53 56 50 50 48
16 17 18 19 20	17 14 20 24 23	e27 e24 e23 e22 e22	20 21 e23 e23 e23	e23 e23 e23 e23 e23	e23 e24 e24 e24 e24	18 19 19 18 19	37 29 23 13 15	17 18 17 17	34 35 32 26 25	20 18 15 31 75	40 58 57 47 45	46 48 44 46 63
21 22 23 24 25	29 24 22 22 24	e22 e22 e22 e22 e21	e23 e23 e23 e23 e23	e23 e23 e23 e23 e23	e24 e24 e24 e24 e24	17 33 32 39 57	18 17 23 96 218	13 29 91 69 70	40 35 30 34 30	41 27 35 70 46	41 22 17 17	54 51 54 56 51
26 27 28 29 30 31	27 56 34 28 25 e24	19 18 18 18 18	e23 e23 e23 e23 e23 e23	e23 e23 e23 e23 e23 e23	e24 e24 23 	50 46 45 53 53	186 116 66 36 34	65 61 57 60 65 58	40 26 25 28 26	35 21 75 123 166 454	18 17 18 24 35 41	49 45 43 43 42
TOTAL MEAN MAX MIN AC-FT	1117 36.0 63 14 2220	655 21.8 29 18 1300	637 20.5 23 15 1260	706 22.8 23 22 1400	655 23.4 24 23 1300	892 28.8 57 17 1770	1897 63.2 218 13 3760	1104 35.6 91 13 2190	1464 48.8 249 25 2900	1518 49.0 454 11 3010	2327 75.1 409 17 4620	1667 55.6 102 41 3310
							BY WATER Y					
MEAN MAX (WY) MIN (WY)	39.4 64.3 1995 30.2 1992	27.1 29.9 1992 21.8 1997	21.7 23.5 1992 19.6 1994	20.3 22.8 1997 14.0 1995	20.9 26.7 1996 12.0 1995	33.3 50.1 1992 18.4 1993	50.9 63.2 1997 39.2 1993	53.8 85.5 1994 26.4 1993	64.9 117 1995 35.8 1993	53.2 111 1995 30.9 1994	46.9 75.1 1997 27.4 1994	52.9 67.0 1993 27.1 1994
SUMMARY	STATISTI	CS	FOR 1	996 CALEN	DAR YEAR	F	OR 1997 WAT	ER YEAR		WATER YEA	ARS 1992	- 1997
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS				13996.5 38.2 262 8.8 11 27760 72 29 18	May 27 Jul 22 Apr 26		14639 40.1 454 a11 14 541 9.04 29040 65 24 18	Jul 31 Jul 4 Jul 7 Aug 6 Aug 6		40.5 53.2 35.1 454 .32 3.6 541 9.04 29340 76 28 17	Apr 1 Sep Aug	1995 1993 31 1997 8 1994 3 1992 6 1997 6 1997

e-Estimated.

a-Also occurred Jul 9.

06721500 NORTH ST. VRAIN CREEK NEAR ALLENS PARK, CO

 $LOCATION.--Lat~40^{o}13'08", long~105^{o}31'40", in~SW^{1}/_{4}SE^{1}/_{4}~sec.14,~T.3~N.,~R.73~W.,~Boulder~County,~Hydrologic~Unit~10190005,~on~left~bank~64~ft~upstream~from~bridge~on~Colorado~Highway~7,~0.8~mi~upstream~from~Horse~Creek,~and~1.7~mi~north~of~Allens~Park.$

DRAINAGE AREA.--32.6 mi².

PERIOD OF RECORD.--October 1925 to September 1930. October 1986 to September 1997 (discontinued).

REVISIONS.--WDR CO-91-1: 1987, 1988, 1989 (M).

GAGE.--Water stage recorder with satellite telemetry. Elevation of gage is 8,290 ft (revised) above sea level, from topographic map. Oct. 1, 1926 to June 6, 1929, water-stage recorder at present site at different datum. June 6, 1929 to Sept. 30, 1930 at site 300 ft downstream at different datum.

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

Dutu	r or ough	ig button		n or ams rep								
			DISC	HARGE, CUBI	C FEET PER		, WATER YEAF Y MEAN VALU		1996 TO S	EPTEMBER 199	97	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	47 45	e19 e19	e12 e12	e9.9 e10	e8.1 e8.0	e6.4 e6.7	e13 13	21 20	342 395	233 198	135 116	54 55
3	47	e18	e12	e10	e7.9	e7.0	e14	19	408	190	111	57
4 5	49 47	17 e17	e11 e11	e10 e10	e7.8 e7.8	e7.2 e7.3	e14 14	23 33	407 442	182 176	109 111	58 54
	45		e11				e14	43	425	157	120	52
6 7	42	e17 e16	ell ell	e9.8 e9.6	e7.8 e7.7	e7.3 e7.6	e13	54	503	146	109	48
8 9	40 38	e16 e15	e10 e10	e9.4 e9.3	e7.5 e7.4	e7.9 e8.4	12 12	58 60	432 444	151 152	97 98	44 42
10	36	15	e10	e9.4	e7.4	e9.0	e12	73	409	157	180	41
11	34	16	e10	e9.4	e7.3	e8.6	e12	76	430	158	187	40
12 13	34 33	13 13	e10 e10	e9.2 e9.4	e7.2 e7.2	e8.3 e8.0	e11 e11	62 67	393 361	139 138	151 131	40 38
14 15	32 30	13 13	e10 e10	e9.2 e9.0	e7.0 e6.9	e7.9 e7.8	el1 11	83 95	340 365	135 132	118 101	39 38
16	29	e13	e9.8	e8.9	e6.9	e8.0	11	127	330	133	96	42
17	27	e13	e9.3	e8.8	e7.0	8.2	12	157	323	128	93	38
18 19	e28 28	e13 e14	e9.0 e9.0	e8.7 e8.7	e7.2 e7.1	e8.8 9.4	16 20	184 182	381 465	130 125	93 106	39 45
20	25	e14	e8.8	e8.8	e7.0	11	28	169	469	125	97	73
21 22	e24 e23	14 14	e9.0 e9.2	e8.8 e8.8	e6.8 e6.8	12 14	36 28	193 302	445 429	127 124	88 82	69 60
23	e22	14	e9.2	e8.8	e6.6	15	24	251	393	121	77	60
24 25	e22 21	e14 e14	e9.2 e9.2	e8.8 e8.8	e6.5 e6.3	15 e15	17 e18	226 190	368 324	133 129	75 74	58 51
26	20	e14	e9.3	e8.9	e6.3	e15	e20	150	292	114	72	48
27	20	e13	e9.5	e8.8	e6.3	15	e22	121	283	111	70	52
28 29	e20 19	e13 e13	e9.7 e9.7	e8.7 e8.5	e6.2	e15 14	23 23	112 160	274 264	105 100	69 66	48 43
30 31	e19 19	e12	e9.7 e9.8	e8.3 e8.1		e14 13	22	169 230	250	116 162	59 53	40
TOTAL MEAN	965 31.1	439 14.6	309.4 9.98	282.8 9.12	200.0 7.14	317.8 10.3	507 16.9	3710 120	11386 380	4427 143	3144 101	1466 48.9
MAX MIN	49 19	19 12	12 8.8	10 8.1	8.1 6.2	15 6.4	36 11	302 19	503 250	233 100	187 53	73 38
AC-FT	1910	871	614	561	397	630	1010	7360	22580	8780	6240	2910
STATIST	ICS OF MO	NTHLY ME	AN DATA	FOR WATER Y	EARS 1926	- 1997	, BY WATER	YEAR (WY)			
MEAN	19.1	12.4	8.32	6.81	5.90	7.12	17.2	99.4	235	142	70.6	34.6
MAX (WY)	35.2 1930	18.5 1930	11.8 1926	9.12 1997	8.00 1926	10.3 1997	30.4 1930	134 1926	380 1997	280 1995	126 1930	76.3 1929
MIN	10.7	8.16	6.69	5.46	4.00	5.45	7.31	38.1	141	66.3	34.0	15.9
(WY)	1989	1989	1989	1995	1930	1992	1995	1995	1987	1994	1988	1988
SUMMARY	STATISTI	CS	FOR	1996 CALEN	IDAR YEAR		FOR 1997 WA	TER YEAR		WATER YEA	ARS 1926	- 1997
ANNUAL ANNUAL				22850.6 62.4			27154.0 74.4			55.1		
	ANNUAL M									74.4 40.0		1997
	ANNUAL ME DAILY ME			385	Jun 22		503	Jun 7		503	Jun	1989 7 1997
	DAILY MEA SEVEN-DAY			e _{4.7}	Feb 29 Feb 23		e _{6.2} 6.4	Feb 28 Feb 23		4.0 4.0	Feb Feb	1 1930 1 1930
	ANEOUS PE			7.0	ren 23		562	Jun 7		a ₅₆₂	Jun	7 1997
INSTANT	ANEOUS PE	AK STAGE					^b 6.80	Jun 7		^b 6.80	Jun	7 1997
	RUNOFF (A ENT EXCEE			45320 216			53860 195			39880 168		
50 PERC	ENT EXCEE	DS		22			21			16		
90 PERC	ENT EXCEE	DS		5.4			8.0			6.0		

a-Maximum discharge, 1,000 ft³/s, estimated, occurred Jun 9, 1929, caused by failure of Copeland Dam 0.5 mi upstream, gage height not determined. b-Maximum gage height, 8.97 ft, Dec 17, 1996, backwater from ice.

06724000 ST. VRAIN CREEK AT LYONS, CO

LOCATION.--Lat 40°13'05", long 105°15'34", in NW¹/4NW¹/4 sec.20, T.3 N., R.70 W., Boulder County, Hydrologic Unit 10190005, on left bank 75 ft southwest of U.S. Highway 36 (State Highways 7 and 66) at southeast edge of Lyons, 400 ft upstream from St. Vrain Supply Canal, and 0.4 mi downstream from confluence of North and South St. Vrain Creeks.

DRAINAGE AREA.--212 mi².

PERIOD OF RECORD.--Streamflow records, August 1887 to September 1891, June 1895 to current year. Monthly discharge only for some periods, published in WSP 1310. Published as "near Lyons" 1901, 1903. Water-quality data available, October 1977 to February 1981.

REVISED RECORDS.--WSP 1310: 1898, 1900. WSP 1730: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,292 ft above sea level, from topographic map. Prior to Apr. 6, 1923, nonrecording gages near present site at different datums. Apr. 6, 1923 to Sept. 30, 1956, water-stage recorder at same site at datum 1.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Diversions upstream from station for irrigation of about 2,000 acres. Flow partly regulated by small reservoirs upstream from station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Outstanding floods occurred in June 1864 and May 1876. Flood in May or June 1894 reached a stage of 9.13 ft, from information by local resident, discharge, about 9,800 ft³/s. For discussions of these floods, see WSP 997.

			DISCHAF	RGE, CUBIC	FEET PER SE		ATER YEAR (IEAN VALUE		996 TO SEP	TEMBER 199	7	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	49	28	25	27	23	66	319	723	450	273	88
2	113	45	25	28	28	27	69	300	992	387	254	101
3	115	42	24	28	26	26	61	272	1040	388	250	103
4	150	42	27	23	24	24	59	282	964	373	267	109
5	137	44	32	17	25	24	59	363	1060	386	283	105
6	125	41	33	21	25	22	54	472	1140	381	314	103
7	116	33	28	21	23	22	57	569	1550	363	267	93
8	97	37	29	26	24	23	54	566	1390	354	223	86
9	85	45	27	27	26	24	55	485	1500	351	189	80
10	73	42	25	22	24	22	52	431	1370	351	250	79
11	70	39	25	20	24	21	50	397	1330	380	264	78
12	63	38	24	21	24	23	57	329	1260	331	300	77
13	61	37	25	22	23	25	58	273	1180	289	284	70
14	56	36	24	22	23	24	54	286	1030	282	218	71
15	51	39	18	25	24	27	49	306	1060	278	190	71
16	48	37	20	24	25	25	47	336	988	266	172	73
17	53	34	18	23	26	27	48	375	932	265	170	73
18	46	46	19	24	22	25	50	476	961	273	162	68
19	55	45	23	25	21	25	65	550	1100	277	168	75
20	59	40	29	25	22	28	74	528	1190	270	170	131
21	45	41	28	24	23	37	93	486	1050	269	146	148
22	42	39	27	22	22	38	101	571	984	275	138	132
23	46	38	26	23	25	42	112	573	924	260	132	136
24	51	34	23	23	22	49	165	608	787	276	115	153
25	49	40	23	23	21	45	169	589	685	296	113	124
26 27 28 29 30 31	50 43 44 63 46 51	39 31 26 31 30	25 27 24 25 26 24	25 26 25 24 24 28	23 24 22 	51 63 69 71 66 66	182 206 288 381 366	516 399 297 283 365 497	614 559 529 515 473	264 245 236 208 204 270	121 115 114 108 105 90	101 100 96 89 78
TOTAL	2223	1160	781	736	668	1084	3201	13099	29880	9498	5965	2891
MEAN	71.7	38.7	25.2	23.7	23.9	35.0	107	423	996	306	192	96.4
MAX	150	49	33	28	28	71	381	608	1550	450	314	153
MIN	42	26	18	17	21	21	47	272	473	204	90	68
AC-FT	4410	2300	1550	1460	1320	2150	6350	25980	59270	18840	11830	5730
					YEARS 1896							
MEAN	38.9	24.2	17.0	13.9	13.4	19.7	90.0	296	529	293	134	67.4
MAX	189	137	70.0	59.0	56.0	76.0	347	773	1096	701	299	263
(WY)	1896	1924	1903	1903	1903	1903	1926	1980	1969	1907	1899	1938
MIN	3.64	4.65	4.20	3.35	2.31	2.42	14.1	94.5	148	80.6	41.1	21.9
(WY)	1957	1940	1945	1932	1990	1964	1966	1977	1954	1934	1934	1934
SUMMARY	STATISTI	CS.	FOR 1	996 CALE	NDAR YEAR	F	OR 1997 W	ATER YEAR		WATER YE	ARS 1896	- 1997
LOWEST .	MEAN ANNUAL M ANNUAL ME	AN		53726 147			71186 195			128 222 46.3		1907 1954
LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS			934 17 19 106600 489 62 21	May 26 Jan 18 Feb 11		1550 17 21 1640 5.89 141200 521 63 23	Jun 7 Jan 5 Dec 13 Jun 7 Jun 7		2120 a.00 .31 10500 9.06 92910 382 39 9.0	Jan 1 Mar 2 Jun 2	7 1969 19 1922 24 1957 22 1941 22 1941

a-Also occurred Jan 20, 1922 and Jan 12-13, 1950.

06725450 ST. VRAIN CREEK BELOW LONGMONT, CO

LOCATION.--Lat 40°09'30", long 105°00'48", in NW1/4NW1/4 sec.9, T.2 N., R.68 W., Weld County, Hydrologic Unit 10190005, on left bank 1,750 ft upstream from mouth of Boulder Creek, 1.8 mi downstream from Spring Gulch, and 4.7 mi southeast of Longmont.

DRAINAGE AREA.--424 mi².

PERIOD OF RECORD.--October 1976 to September 1982, August 1984 to current year. Water-quality data available, October 1976 to February 1981.

GAGE.--Water-stage recorder. Elevation of gage is 4,852 ft, above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation, and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

			DISCI	IARGE, CUB	IC FEET PER S		WATER YEAR ' MEAN VALU		1996 TO SI	EPTEMBER 19	97	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	74 68 71 69 66	59 56 55 55	31 31 28 31 32	49 49 50 49 46	42 39 39 39 38	36 37 37 37 37	49 62 63 66 72	450 328 275 270 347	638 910 956 962 1080	309 e280 e270 e265 e250	97 95 82 114 149	93 104 108 108 97
6 7 8 9 10	64 65 63 65 70	53 51 50 49 47	33 29 31 37 37	48 47 49 47 44	38 38 37 37 38	36 35 35 34 35	68 67 58 60 61	507 629 646 646 551	1150 1640 1530 1530 1550	e240 e230 e220 e215 e210	327 245 177 154 186	114 120 119 117 114
11 12 13 14 15	71 73 71 72 71	45 43 46 46 47	32 31 32 33 27	43 43 43 44 49	38 39 39 38 37	34 34 35 35 36	64 65 67 67 71	561 646 500 418 390	1520 1500 1470 1370 1340	e205 e200 e198 e192 e188	157 134 147 126 114	111 113 105 102 103
16 17 18 19 20	68 65 64 82 77	42 35 37 39 44	30 30 28 27 32	48 47 47 e21 e6.1	36 37 39 38 42	35 35 35 36 36	74 74 81 85 91	406 390 318 363 330	1320 1250 1220 1220 1270	e177 162 151 143 157	127 120 122 111 107	107 107 116 131 201
21 22 23 24 25	84 79 66 62 62	37 35 39 35 39	41 44 43 43 45	44 46 44 44	39 37 37 37 37	35 34 35 40 37	92 74 90 205 207	271 368 453 499 520	1230 1220 1170 985 850	161 163 164 176 175	89 86 80 79 79	216 221 286 296 255
26 27 28 29 30 31	81 62 63 60 56 58	40 39 33 33 35	46 46 46 46 48 49	42 43 43 42 42 43	39 38 37 	35 34 35 38 40 40	205 214 291 451 564	500 407 333 263 321 433	780 643 562 513 386	176 165 197 168 104 104	83 94 82 89 95 93	215 197 190 172 e165
TOTAL MEAN MAX MIN AC-FT	2122 68.5 84 56 4210	1315 43.8 59 33 2610	1119 36.1 49 27 2220	1344.1 43.4 50 6.1 2670	1069 38.2 42 36 2120	1113 35.9 40 34 2210	3758 125 564 49 7450	13339 430 646 263 26460	33765 1126 1640 386 66970	6015 194 309 104 11930	3840 124 327 79 7620	4503 150 296 93 8930
STATIST	CICS OF MC	NTHLY MEA	N DATA F	OR WATER	YEARS 1976	- 1997	, BY WATER	YEAR (WY)			
MEAN MAX (WY) MIN (WY)	68.0 159 1985 45.5 1990	56.6 126 1985 34.5 1979	49.6 91.5 1985 30.8 1979	45.0 92.8 1980 25.7 1978	44.7 94.0 1980 27.9 1978	49.4 111 1980 28.9 1982	78.5 259 1980 27.5 1982	244 1155 1980 35.8 1977	389 1227 1995 63.3 1981	176 485 1995 100 1981	146 185 1986 88.9 1977	103 152 1982 53.7 1977
SUMMARY	STATISTI	CS	FOR	1996 CALE	NDAR YEAR	I	FOR 1997 WA	TER YEAR		WATER YE	ARS 1976	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT ANNUAL 10 PERC 50 PERC		AN A		42131 115 868 a27 29 83570 288 54 33	Jun 22 Dec 15 Apr 25		73302.1 201 1640 66.1 30 1700 6.17 145400 516 70 35	Jun 7 Jan 20 Dec 13 Jun 7 Jun 7		121 257 54.8 2580 66.1 22 2960 b6.53 87610 206 66	Jan 2 Dec 2 May 3	1995 1977 0 1995 0 1997 6 1990 0 1995 0 1995

e-Estimated. a-Also occurred Dec 19. b-Maximum gage height, 11.45 ft, Jan 13, 1993, backwater from ice.

06730200 BOULDER CREEK AT NORTH 75TH STREET NEAR BOULDER, CO

LOCATION.--Lat 40°03'06", long 105°10'42", in SE¹/4NW¹/4 sec.13, T.1 N., R.70 W., Boulder County, Hydrologic Unit 10190005, on left bank, 50 ft upstream from bridge on North 75th Street, 0.2 mi downstream from Boulder feeder ditch, and 6 mi northeast of Boulder.

DRAINAGE AREA.--304 mi².

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

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Elevation of gage is 5,106 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow is partially regulated by Barker Reservoir, and affected by Boulder feeder ditch, Boulder sewage treatment plant, and Public Service power plant. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES												
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
87	68	45	42	38	49	67	255	134	291	196	121	
78	63	53	49	38	45	74	234	145	228	147	118	
79	57	48	51	35	59	76	209	142	197	130	121	
87	66	44	51	32	50	88	208	275	189	194	122	
90	70	47	44	34	48	94	248	620	206	266	118	
84	46	44	45	31	58	74	259	707	207	400	114	
87	43	42	46	36	51	73	261	1160	215	252	106	
91	52	44	48	43	52	56	247	986	214	169	106	
82	57	46	50	37	53	42	225	1100	195	132	104	
82	52	45	46	38	57	42	201	1100	193	200	103	
82	48	45	44	36	53	44	188	1180	199	207	102	
84	46	48	27	42	58	46	171	1360	196	168	99	
87	45	40	50	48	60	49	139	1450	235	141	88	
88	52	42	68	46	45	46	128	1280	275	118	95	
82	59	44	34	41	46	46	140	1220	237	94	95	
79	57	38	28	43	39	54	151	1140	160	67	97	
81	53	50	40	46	39	54	162	1060	171	77	94	
85	45	38	49	55	38	69	170	1150	194	73	89	
74	58	59	54	56	36	69	149	1300	210	78	80	
72	48	55	48	57	47	70	132	1330	242	67	98	
73	47	50	55	63	58	85	138	1120	228	78	88	
75	48	49	45	52	71	92	281	963	196	118	95	
63	47	56	40	52	61	89	270	898	173	141	109	
67	47	46	42	54	90	252	230	790	184	130	81	
75	49	41	41	54	78	262	206	733	191	129	69	
70 72 70 68 63 56	50 47 43 44 45	43 43 48 42 43	35 39 36 40 35 34	57 51 57 	85 80 76 59 62 65	210 190 234 260 293	198 160 136 132 136 126	613 496 385 380 320	194 150 152 134 254 230	125 132 133 134 125 119	67 65 60 57 61	
2413	1552	1421	1356	1272	1768	3200	5890	25537	6340	4540	2822	
77.8	51.7	45.8	43.7	45.4	57.0	107	190	851	205	146	94.1	
91	70	59	68	63	90	293	281	1450	291	400	122	
56	43	38	27	31	36	42	126	134	134	67	57	
4790	3080	2820	2690	2520	3510	6350	11680	50650	12580	9010	5600	
47.4	53.0	49.4	47.9	47.2	51.6	79.2	191	325	229	134	75.9	
77.8	78.8	74.9	68.3	61.3	76.8	145	465	868	492	170	111	
1997	1992	1989	1987	1996	1987	1987	1995	1995	1995	1993	1995	
31.5	37.7	36.1	37.6	34.3	31.2	37.4	114	127	154	95.5	50.8	
1987	1993	1988	1988	1992	1989	1989	1991	1992	1988	1991	1992	
STATISTI	CS	FOR 1	1996 CALEI	NDAR YEAR	F	OR 1997 WA	TER YEAR		WATER YEA	ARS 1987	- 1997	
MEAN ANNUAL M ANNUAL ME DAILY ME DAILY MEA SEVEN-DAY ANEOUS PE ANEOUS PE RUNOFF (A ENT EXCEE	AN AN N MINIMUM AK FLOW AK STAGE C-FT) DS DS		46428 127 754 a38 43 92090 295 74	Jun 22 Dec 16 Dec 12		115300 260 74	Jun 13 Jan 12 Jan 31 Jun 13 Jun 13		111 198 85.5 1450 20 23 1950 7.85 80540 220 62	Dec 2 Dec 2 May 1	1995 1989 13 1997 26 1987 23 1987 17 1995 17 1995	
	87 78 79 87 79 87 90 84 87 91 82 82 82 84 87 88 82 82 84 87 88 82 79 81 85 74 72 73 75 63 67 75 70 68 63 67 75 70 68 63 67 77 70 68 63 67 77 70 68 63 67 77 70 70 72 70 68 63 67 77 70 70 71 70 70 71 70 70 71 70 70 71 70 70 70 70 70 70 70 70 70 70 70 70 70	87 68 78 63 79 57 87 66 90 70 84 46 87 43 91 52 82 57 82 52 82 48 84 46 87 45 88 52 82 59 79 57 81 53 85 45 74 58 72 48 73 47 75 48 63 47 67 47 75 49 70 50 70 43 68 44 63 45 56 2413 1552 77.8 51.7 91 70 56 43 4790 3080 CICS OF MONTHLY MEA 47.4 53.0 77.8 78.8 1997 1992 31.5 37.7 1987 1993	OCT NOV DEC 87 68 45 78 63 53 79 57 48 87 66 44 90 70 47 84 46 44 87 43 42 91 52 44 82 57 46 82 52 45 82 48 45 84 46 48 87 45 40 88 52 42 82 59 44 79 57 38 81 53 50 85 45 38 74 58 59 72 48 55 73 47 50 85 45 38 74 58 59 72 48 49 63 47 56 67 47 46 75 49 41 70 50 43 72 47 43 70 43 48 68 44 42 63 47 56 67 47 46 75 49 41 70 50 43 72 47 43 70 43 48 68 44 42 63 45 43 56 43 2413 1552 1421 77.8 51.7 45.8 91 70 59 56 43 38 4790 3080 2820 PICS OF MONTHLY MEAN DATA FOR ANNUAL MEAN 1997 1992 1989 31.5 37.7 36.1 1987 1993 1988 STATISTICS FOR INTERIOR STAGE RUNDER ANNUAL MEAN ANNUAL MEAN ANNUAL MEAN ANNUAL MEAN CANNUAL MEAN ANNUAL MEAN ANDUAL MEAN ANNUAL MEAN ANNUAL MEAN ANDUAL MEAN ANNUAL MEAN ANDUAL MEAN	OCT NOV DEC JAN 87 68 45 42 78 63 53 49 79 57 48 51 87 66 44 51 90 70 47 44 84 46 44 45 87 43 42 46 91 52 44 48 82 57 46 50 82 52 45 46 82 48 45 44 84 46 48 27 87 45 40 50 88 52 42 68 82 59 44 34 79 57 38 28 81 53 50 40 85 45 38 49 74 58 59 54 72 48 55 48 73 47 50 55 75 48 49 45 76 47 46 42 77 46 42 75 49 41 41 70 50 43 35 72 47 43 39 70 43 48 36 68 44 42 40 63 47 56 40 67 47 46 42 75 49 41 41 70 50 43 35 72 47 43 39 70 43 48 36 68 44 42 40 63 45 43 35 56 43 34 77 50 59 68 78 51 7 45 8 43 7 79 1 70 59 68 56 43 38 27 77.8 51.7 45.8 43.7 91 70 59 68 56 43 38 27 77.8 51.7 45.8 43.7 91 70 59 68 56 43 38 27 77.8 51.7 45.8 43.7 91 70 59 68 56 43 38 27 77.8 51.7 45.8 43.7 91 70 59 68 56 43 38 27 4790 3080 2820 2690 PICS OF MONTHLY MEAN DATA FOR WATER STATE 47.4 53.0 49.4 47.9 77.8 78.8 74.9 68.3 1997 1992 1989 1987 31.5 37.7 36.1 37.6 1987 1993 1988 1988 STATISTICS FOR 1996 CALET TOTAL 46428 MEAN 7ANUAL MEAN ANUAL MEAN ANUAL MEAN 7ALLY MEAN ANUAL MEAN 7ALLY	OCT NOV DEC JAN FEB 87 68 45 42 38 78 63 53 49 38 79 57 48 51 35 87 66 44 51 32 90 70 47 44 34 84 46 44 45 31 87 43 42 46 36 91 52 44 48 43 82 57 46 50 37 82 52 45 46 38 82 48 45 44 36 84 46 48 27 42 87 45 40 50 48 88 52 42 68 46 82 59 44 34 41 79 57 38 28 43 81 53 50 40 46 82 59 44 34 41 79 57 38 28 43 81 53 50 40 46 85 45 38 49 55 74 58 59 54 56 72 48 55 48 57 73 47 50 55 63 75 48 49 45 52 63 47 56 40 52 67 47 46 42 54 75 49 41 41 54 70 50 43 35 57 72 47 43 39 51 70 43 48 36 57 71 45.8 43.7 45.4 91 70 59 68 63 63 45 43 38 27 31 71 87.8 51.7 45.8 43.7 45.4 91 70 59 68 63 63 47 90 68 63 63 47 90 68 63 63 47 90 68 63 63 63 63 45 43 75 60 68 63 63 63 45 43 75 60 68 63 63 45 43 75 60 68 63 63 45 43 75 60 68 63 63 45 43 75 60 68 64 68 69 68 69 69 69 69 69 69 69 69 69 69 60 69 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68 46 45 46 46 46 140 79 57 38 28 43 39 54 151 81 53 50 40 46 39 54 162 85 45 38 49 55 38 69 170 74 58 59 54 56 36 69 149 72 48 55 48 57 47 70 132 73 47 50 55 63 58 85 138 75 48 49 45 52 71 70 132 73 47 50 55 63 58 85 138 75 48 49 45 52 71 92 281 63 47 46 42 54 90 252 230 67 47 46 42 54 90 252 230 70 50 43 35 57 76 20 292 70 50 43 35 57 76 20 292 70 50 43 35 57 76 20 292 70 50 43 35 57 76 20 292 70 50 43 35 57 76 20 292 70 50 43 35 57 76 20 292 70 50 43 35 57 76 20 292 71 92 281 63 45 43 39 51 80 190 160 72 47 43 39 51 80 190 160 74 45 84 46 42 54 90 252 230 75 49 41 41 54 78 262 206 76 47 46 42 54 90 252 230 77 57 48 49 45 52 71 92 281 63 45 43 35 62 293 136 66 43 38 27 31 36 42 126 77 56 43 38 27 31 36 42 126 77 57 85 17 45 8 43 7 45 4 57 9 199 78 51 7 45 8 43 7 45 8 59 293 136 78 56 43 38 27 31 36 42 126 79 57 48 44 47 9 47 2 51 6 79 2 191 77 8 51 7 45 8 43 7 45 4 57 9 197 78 8 17 7 45 8 43 7 45 4 57 9 197 79 8 57 36 1 37 6 1 177 8 117 17 8 17 45 8 43 7 45 4 57 9 197 70 43 48 36 57 76 234 136 66 47 47 46 42 54 77 49 199 70 50 43 38 27 31 36 42 126 71 80 47 45 8 43 7 45 4 57 9 199 71 8 51 7 45 8 43 7 45 4 57 9 199 71 8 51 7 45 8 43 7 45 4 57 9 199 71 8 71 70 59 68 63 90 293 281 71 8 71 70 59 68 63 90 293 181 72 8 71 8 71 70 70 70 70 70 70 70 70 70 70 70 70 70	OCT NOV DEC JAN FEB MAR APR MAY JUN 87 68 45 42 38 49 67 255 134 78 63 53 49 38 45 74 224 145 79 57 48 51 35 59 76 209 142 87 66 44 51 35 59 76 209 142 87 66 44 51 35 59 76 209 142 87 66 44 51 35 59 76 209 142 88 4 46 44 45 31 58 74 225 70 87 43 42 46 36 51 73 261 1160 88 4 46 44 45 31 58 74 225 70 87 43 42 46 36 51 73 261 1160 91 52 44 48 43 52 56 247 986 82 57 46 50 37 53 42 225 1100 82 57 46 50 37 53 42 225 1100 82 48 46 46 48 27 42 58 46 171 1360 87 43 44 6 48 47 46 38 57 42 2201 1100 88 4 46 48 45 44 36 53 44 188 1180 88 4 6 46 6 8 27 42 58 46 171 1360 88 5 45 59 44 34 41 46 64 128 1280 88 52 42 68 46 45 46 128 1280 88 52 42 68 46 46 46 128 1280 88 52 42 68 46 46 46 128 1280 88 52 42 68 46 64 46 19 1220 79 57 38 28 43 39 54 161 1020 88 2 8 59 54 56 36 69 170 1150 81 53 50 40 46 39 54 151 1140 81 53 50 40 46 39 54 151 1140 81 53 50 40 46 39 54 151 1140 81 53 50 40 46 39 54 151 1140 81 53 50 40 46 39 54 151 1140 81 53 50 40 46 39 54 151 1140 81 53 50 40 46 39 54 162 1060 85 45 38 49 55 38 69 170 1150 79 57 48 55 48 57 47 70 132 1330 73 47 50 55 63 58 85 138 1120 75 48 49 45 52 71 92 281 963 63 47 56 40 52 61 89 270 888 66 44 42 44 25 49 90 252 230 790 70 50 43 35 57 85 210 198 61 36 70 50 43 35 57 76 22 230 790 70 50 43 35 57 76 230 198 160 86 44 42 40 59 260 132 380 66 44 42 40 59 260 132 380 66 44 42 40 0 59 260 132 380 67 47 46 42 54 90 252 230 790 87 47 48 53 74 56 63 65 77 66 293 281 1450 77 8 51.7 45.8 43.7 45.4 57.0 107 190 851 70 59 68 63 90 293 281 1450 71 87 88 74 96 8.3 61.3 76.8 145 455 465 868 89 197 97 99 198 91 999 91 999 9199 1999 71 70 59 68 63 63 90 293 281 1450 77.8 78.8 74.9 68.3 61.3 76.8 145 465 868 77 18 79 199 199 199 1999 1999 7 STATISTICS FOR 1996 CALENDAR YEAR FOR NATHER YEAR (WY) **THENERN 12 142 1366 127 137 13 30 13 13 12 37 4 114 127 1381 **THENERN 12 142 1366 127 137 13 1360 **THENERN 12 142 1366 127 137 13 13 13 13 13 13 13 13 13 13 13 13 13	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL 87 66	OCT NOV DEC JAN FRB MAR APR MAY JUN JUN JUN AUG 87 68 45 42 38 49 67 225 134 291 136 78 63 53 49 38 45 74 234 145 228 147 79 57 48 51 32 50 88 208 275 189 124 87 66 44 51 32 50 88 208 275 189 124 88 4 46 44 45 31 58 74 229 146 226 88 4 46 44 45 31 58 74 229 707 207 400 88 7 43 42 46 36 51 73 261 1160 215 252 91 52 44 48 48 43 52 56 44 201 1160 215 252 91 52 44 48 48 31 58 74 229 707 207 400 82 48 45 44 36 53 53 44 188 1180 199 207 84 46 48 49 44 36 53 37 42 201 1100 193 202 82 48 45 44 36 53 44 188 1180 199 207 84 46 48 49 44 36 53 44 188 1180 199 207 84 46 48 49 44 36 53 44 188 1180 199 207 84 46 48 49 44 46 46 46 46 128 180 228 144 85 8 42 46 50 38 57 42 201 1100 193 202 87 8 8 8 9 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9	

a-Also occurred Dec 18.

06730400 COAL CREEK NEAR LOUISVILLE, CO

LOCATION.--Lat 39°58'34", long 105°07'00", in NW1/4SE1/4 sec.9, T.1 S., R.69 W., Boulder County, Hydrologic Unit 10190005, on left bank on upstream side of County road 62 bridge, and 1.1 mi northeast of Louisville.

DRAINAGE AREA .-- Not determined.

PERIOD OF RECORD.--July to September 1997.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,280 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions for irrigation, and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE CURIC FEET DER SECOND WATER VEAR OCTORER 1007 TO SERTEMBER 1007

EXTREMES FOR CURRENT YEAR .-- Maximum discharge during period July to September not determined; maximum gage height, 2.06 ft, July 30; maximum daily discharge, 38 ft³/s, August 6; minimum daily, 0.63 ft³/s, July 15.

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1										e9.2	1.1	2.7		
2										9.2	.71	3.4		
3										8.6	.69	2.8		
4										e5.5	16	2.5		
5										e4.0	12	2.1		
6										e2.5	38	5.3		
7										e1.8	9.1	2.5		
8										e1.3	5.6	1.8		
9										el.1	4.1	1.6		
10										e1.0	7.4	1.5		
11										.96	6.2	1.4		
12										1.2	6.3	1.4		
13										.78	6.4	1.3		
14										.68	5.1	1.4		
15										.63	5.0	1.2		
16										.74	4.7	1.0		
17										.75	11	1.1		
18										.77	15	.99		
19										9.0	5.5	.70		
20										1.4	4.2	2.0		
21										1.4	3.6	1.1		
22										1.7	3.3	1.5		
23										2.1	2.9	3.4		
24										2.3	2.7	1.7		
25										2.6	2.4	1.3		
26										2.3	4.4	2.3		
27										2.3	2.5	2.4		
28										15	3.3	2.4		
29										2.0	4.2	2.4		
30										22	2.5	2.5		
31										2.2	2.8			
TOTAL										117.01	198.70	59.69		
MEAN										3.77	6.41	1.99		
MAX										22	38	5.3		
MIN										.63	.69	.70		
AC-FT										232	394	118		

e-Estimated.

06730500 BOULDER CREEK AT MOUTH NEAR LONGMONT, CO

LOCATION.--Lat 40°09'08", long 105°00'52", in NW1/4SW1/4 sec.9, T.2 N., R.68 W., Weld County, Hydrologic Unit 10190005, on left bank 0.6 mi upstream from mouth, 1.0 mi downstream from State Highway 254, and 4.8 mi southeast of Longmont.

DRAINAGE AREA.--439 mi².

PERIOD OF RECORD.--March 1927 to September 1949, May 1951 to September 1955, October 1978 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,860 ft above sea level, from topographic map. Prior to June 10, 1939, at site 0.8 mi upstream at different datum. June 10, 1939 to Sept. 30, 1949, at site 1.0 mi upstream, at different datum. May 1, 1951 to Sept. 30, 1955, at site 1.4 mi upstream, at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain, transbasin, and storage diversions, diversions for irrigation, water-treatment plants, and return flows from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

2444	r or ough			ARGE, CUBIC			WATER YEAR MEAN VALUI		1996 TO SE	EPTEMBER	1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	100 94 92 99 103	87 81 70 71 91	79 88 83 76 77	59 58 66 61 63	57 56 56 58 61	69 74 70 77 56	70 81 86 88 108	328 285 238 218 220	98 136 136 166 522	67 36 17 9.5 9.4	71 24 22 24 121	12 11 12 12 13
6 7 8 9	97 105 104 100 96	72 63 68 70 76	79 69 74 78 75	58 62 60 64 e60	53 52 66 60 61	79 72 73 71 75	87 83 74 61 60	238 232 227 205 159	571 1420 920 1030 1090	9.0 9.5 7.7 6.8 6.2	273 198 71 37 53	14 21 20 21 23
11 12 13 14 15	93 94 98 94 97	75 68 72 74 87	76 80 82 71 84	e56 e45 e68 e98 e53	57 60 60 58 56	73 76 75 74 68	59 62 64 65 63	135 125 95 79 65	1160 1290 1330 1140 1030	5.3 5.1 4.8 8.4 9.1	68 51 40 37 27	24 24 20 22 26
16 17 18 19 20	90 91 93 89 82	94 80 88 80 83	66 e80 e70 e90 e80	e47 e56 e66 e72 e63	56 57 60 71 67	64 65 59 61 63	66 67 73 66 61	56 72 83 45 31	923 846 860 986 1060	4.5 2.8 2.6 2.4	18 16 12 14 8.5	27 28 30 27 41
21 22 23 24 25	84 83 78 76 83	77 86 81 81	e76 e74 e82 e72 58	e72 e60 e55 e58 e56	75 72 72 68 71	69 81 87 87 92	51 57 58 244 346	15 87 179 96 136	903 732 612 514 468	8.0 3.8 2.9 3.8 5.8	7.2 8.5 14 12	44 47 63 50 43
26 27 28 29 30 31	87 87 89 82 82 78	86 85 81 79 82	73 59 56 54 56 58	e52 e54 e49 e54 e52 e50	72 70 74 	92 86 90 72 73 80	359 302 337 358 384	127 107 90 87 88 85	400 288 186 148 98	9.7 6.5 5.4 60 107 143	18 20 21 19 16 13	39 40 39 46 48
TOTAL MEAN MAX MIN AC-FT	2820 91.0 105 76 5590	2369 79.0 94 63 4700	2275 73.4 90 54 4510	1847 59.6 98 45 3660	1756 62.7 75 52 3480	2303 74.3 92 56 4570	3940 131 384 51 7810	4233 137 328 15 8400	21063 702 1420 98 41780	589.0 19.0 143 2.4 1170	1345.2 43.4 273 7.2 2670	887 29.6 63 11 1760
							BY WATER Y					
MEAN MAX (WY) MIN (WY)	32.9 127 1985 .70 1955	41.0 99.8 1994 .48 1955	47.2 93.8 1939 1.16 1940	50.4 104 1980 2.94 1935	49.7 120 1980 2.75 1935	50.7 148 1983 2.58 1935	93.7 581 1942 1.15 1954	177 1101 1942 1.06 1955	198 976 1947 1.22 1954	46.6 367 1983 1.09 1954	21.4 143 1979 .55 1954	24.2 440 1938 .54 1954
SUMMARY	STATISTI	CS	FOR :	1996 CALENI	DAR YEAR	F	OR 1997 WAT	ER YEAR		WATER Y	YEARS 1927	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC	MEAN ANNUAL ME ANNUAL ME DAILY ME DAILY MEA SEVEN-DAY ANEOUS PE RUNOFF (A ENT EXCEE	AN AN N MINIMUM AK FLOW AK STAGE C-FT) DS		35063.4 95.8 842 a4.0 4.6	Jun 22 Aug 13 Aug 8		1420 2.4 4.6 1760 90100 229	Jun 7 Jul 19 Jul 17 Jun 7 Jun 7		69.7 220 3.9 2300 b.(.(c 4410 6.9 50470 128	Sep Dec Apr 1	1983 1954 3 1938 9 1934 11 1935 3 1938 3 1938
10 PERC 50 PERC		DS DS)	

e-Estimated.

a-Also occurred Aug 14.
b-No flow at times many years.
c-Site and datum then in use, from rating curve extended above 340 ft³/s, on basis of slope-area measurement of peak flow.

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

LOCATION.--Lat $40^{\circ}15'29''$, long $104^{\circ}52'45''$, in SE $^{1}/_4NW^{1}/_4$ sec.3, T.3 N., R.67 W., Weld County, Hydrologic Unit 10190005, on right bank 140 ft downstream from bridge on county road, 1.3 mi upstream from mouth, and 4.2 mi northwest of Platteville.

DRAINAGE AREA.--976 mi².

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

REVISED RECORDS.--WSP 956: 1938(M). WSP 1440: 1934, 1935(M). WSP 1730: 1958, drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,740 ft above sea level, from topographic map. See WSP 1730 for history of changes prior to Apr. 25, 1960.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions upstream from station for irrigation of about 177,000 acres. Flow partly regulated by many small reservoirs upstream from station.

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

				-					ilu icvicwcu	-	0
		DISCHA	RGE, CUBIC	FEET PER SE	COND, W	VATER YEAR MEAN VALU	R OCTOBER JES	1996 TO SE	PTEMBER 199	7	
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
242 223 212 216 216	187 192 177 171 193	154 160 155 153 154	152 148 160 154 152	129 126 125 124 135	146 156 150 162 139	150 179 196 204 233	e876 e701 e595 e530 e537	e703 e915 e1000 e988 e1240	e421 e329 e252 e233 e193	e418 e331 e290 e254 e485	e218 e218 e231 e246 e254
209 212 205 205 198	172 158 157 162 168	161 156 161 163 163	140 133 145 146 140	128 121 141 142 145	158 143 147 148 149	213 196 184 162 157	e684 e801 e843 e852 e742	e1390 e2760 e2890 e2600 e2730	e253 e290 e280 e258 e272	e749 e754 e490 e379 e408	e258 e301 e288 e285 e281
202 196 201 196 201	162 158 157 157 166	159 158 160 149 153	117 30 149 187 193	146 151 151 148 146	147 149 148 149 145	152 161 164 160 e156	e676 e773 e640 e531 e492	e2630 e2650 e2660 e2600 e2270	e284 e324 e324 e321 e315	e456 e418 e384 e342 e303	e268 e254 e241 e224 e222
191 188 187 202 195	183 165 164 163 165	139 123 112 145 175	201 200 218 240 252	143 140 144 158 154	139 137 126 126 125	e159 e170 e176 e189 e173	e465 e482 e405 e432 e392	e2100 e1870 e1780 e1860 e2050	e292 e267 e251 e246 e283	e285 e270 e263 e245 e232	e229 e236 e247 e255 e324
198 203 189 174 183	150 154 154 149 149	190 191 177 173 153	245 227 163 142 133	171 166 161 155 158	130 145 154 157 175	e176 e182 e177 e448 e725	e318 e380 e696 e656 e721	e1980 e1700 e1510 e1310 e1170	e296 e276 e270 e300 e352	e208 e203 e223 e237 e221	e354 e352 e396 e418 e372
211 198 197 187 181 181	154 155 156 152 156	142 151 149 145 146 152	129 135 125 126 123 121	160 159 156 	163 159 163 150 153 149	e778 e728 e752 e894 e993	e694 e613 e537 e437 e481 e562	e1130 e900 e743 e659 e578	e352 e325 e323 e506 e411 e536	e227 e235 e241 e226 e233 e223	e327 e307 e296 e291 e263
6199 200 242 174 12300	4906 164 193 149 9730	4822 156 191 112 9560	4926 159 252 30 9770	4083 146 171 121 8100	4587 148 175 125 9100	9387 313 993 150 18620	18544 598 876 318 36780	51366 1712 2890 578 101900	9635 311 536 193 19110	10233 330 754 203 20300	8456 282 418 218 16770
ICS OF MC	NTHLY MEAN	N DATA FO	OR WATER	YEARS 1927	- 1997	, BY WATER	R YEAR (WY	()			
136 397 1985 25.5 1935			113 223 1980 24.4 1935	119 298 1962 30.3 1935	121 326 1983 28.3 1935	181 1100 1942 25.1 1935	465 2362 1980 43.8 1955	614 2619 1949 56.7 1954	269 972 1995 50.4 1934	203 653 1965 41.0 1940	164 1062 1938 22.7 1934
STATISTI	CS	FOR 1	1996 CALE	NDAR YEAR	1	FOR 1997 W	VATER YEAR	!	WATER YE	ARS 1927	- 1997
ANNUAL ME DAILY ME DAILY ME SEVEN-DAY ANEOUS PE ANEOUS PE RUNOFF (A ENT EXCEE	CAN CAN MINIMUM CAK FLOW CAK STAGE AC-FT) CDS CDS		552 183	May 27 May 4 Apr 30		272000 750 201	Jan 12 Jan 6 Jun 7	2	6700 12 15 a ₁₁₃₀₀ 8.93 159700 360 134	May Apr Apr Sep	1983 1932 10 1957 23 1935 17 1935 3 1938 3 1938
	242 223 212 216 216 216 216 217 209 212 205 205 198 202 196 201 196 201 197 188 187 202 195 198 203 189 174 183 211 198 203 189 174 183 211 198 197 187 181 181 198 197 187 181 181 198 197 187 181 181 198 197 187 181 181 181 181 6199 200 242 174 12300 ICS OF MC 136 397 198 55:5 1935 STATISTI FOTAL MEAN ANNUAL MEAN ANNUAL MEAN ANNUAL MEAN EVENT EXCER ENT	242 187 223 192 212 177 216 171 216 193 209 172 212 158 205 157 205 162 198 168 202 162 198 168 201 157 196 158 201 157 201 166 191 183 188 165 187 164 202 163 195 165 198 150 203 154 189 154 174 149 183 149 211 154 189 155 197 156 187 152 181 156 187 152 183 174 149 12300 9730 ICS OF MONTHLY MEAN 136 129 397 320 1985 1970 25.5 31.2 1935 1935 STATISTICS FOTAL MEAN ANNUAL MEAN ANNUAL MEAN DAILY MEAN DAIL	OCT NOV DEC 242 187 154 223 192 160 212 177 155 216 171 153 216 193 154 209 172 161 205 157 161 205 162 163 198 168 163 202 162 159 196 158 158 201 157 160 196 158 158 201 157 160 196 157 149 201 166 153 191 183 139 188 165 123 187 164 112 202 163 145 195 165 175 198 150 190 203 154 191 189 154 177 174 149 173 183 149 153 211 154 142 198 155 151 197 156 149 187 152 145 181 156 146 181 152 6199 4906 4822 200 164 156 242 193 191 174 149 173 187 152 145 181 156 146 181 152 6199 4906 4822 200 164 156 242 193 191 174 149 112 12300 9730 9560 ICS OF MONTHLY MEAN DATA FOR THE PROPERTY OF TH	OCT NOV DEC JAN 242 187 154 152 223 192 160 148 212 177 155 160 216 171 153 154 216 193 154 152 209 172 161 140 212 158 156 133 205 157 161 145 205 162 163 146 198 168 163 140 202 162 159 117 196 158 158 30 201 157 160 149 196 157 149 187 201 166 153 193 191 183 139 201 188 165 123 200 187 164 112 218 202 163 145 240 195 165 175 252 198 150 190 245 203 154 191 227 189 154 177 163 174 149 173 142 183 149 153 133 211 154 142 129 188 155 151 135 197 156 149 125 187 152 145 126 187 156 149 125 187 156 149 125 187 156 149 125 187 156 149 125 187 156 149 125 187 156 149 125 187 156 149 125 187 152 145 126 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 149 125 187 152 145 126 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 149 125 187 152 145 126 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 149 125 187 152 145 126 181 156 146 123 181 156 146 123 181 156 149 125 187 152 145 126 181 156 146 123 181 156 149 125 187 152 145 126 181 156 146 123 181 156 149 125 187 152 145 126 181 156 146 123 181 156 149 125 187 152 145 126 181 156 146 123 181 156 149 125 187 152 145 126 181 156 146 123 181 156 149 125 187 152 145 126 181 156 146 123 181 156 146 123 181 156 146 123 181 156 149 125 187 152 145 126 181 156 146 123 181 156 146 123 181 156 149 125 187 152 145 126 181 156 149 125 187 187 187 187 187 187 187 187 187 187	OCT NOV DEC JAN FEB 242 187 154 152 129 223 192 160 148 126 212 177 155 160 125 216 171 153 154 124 216 193 154 152 135 209 172 161 140 128 212 158 156 133 121 205 162 163 146 142 198 168 163 140 145 202 162 159 117 146 196 158 158 30 151 201 157 160 149 151 196 157 149 187 148 201 166 153 193 146 191 183 139 201 143 188 165 123 200 140 187 164 112 218 144 202 163 145 240 158 188 165 123 200 140 187 164 112 218 144 202 163 145 240 158 187 164 112 218 144 202 163 145 240 158 187 164 12 218 144 202 163 145 240 158 195 165 175 252 154 198 150 190 245 171 203 154 191 227 166 189 154 177 163 161 174 149 173 142 155 183 149 153 133 158 211 154 142 129 160 189 155 151 135 159 197 156 149 127 163 161 174 149 173 142 155 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 156 146 123 181 157 149 12 20 13 119 397 320 255 223 298 1985 1970 1970 1980 1962 25.5 31.2 27.9 24.4 30.3 1935 1935 1935 1935 1935 STATISTICS FOR 1996 CALENDAR YEAR COTAL 98917 AGAN ANUAL MEAN NAUAL MEAN NAUA	OCT NOV DEC JAN FEB MAR 242 187 154 152 129 146 223 192 160 148 126 156 2116 171 153 154 124 162 216 171 153 154 124 162 216 171 153 154 124 162 216 193 154 152 129 146 212 158 156 133 121 143 205 157 161 145 141 147 205 162 163 146 142 148 198 168 163 140 145 149 202 162 159 117 146 142 148 198 168 163 140 145 149 202 166 158 158 30 151 149 201 157 160 149 151 148 201 157 160 149 151 148 196 157 149 187 148 149 201 166 153 193 146 145 191 183 139 201 143 139 188 165 123 200 140 137 187 164 112 218 144 126 202 163 145 240 158 126 202 163 145 240 158 126 195 165 175 252 154 125 198 150 190 245 171 130 203 154 191 227 166 145 198 150 190 245 171 130 203 154 191 227 166 145 198 150 190 245 171 130 203 154 191 227 166 145 189 154 177 163 161 154 174 149 173 142 155 157 189 150 190 245 171 130 201 154 149 173 142 155 189 154 177 163 161 154 174 149 173 142 155 157 189 156 175 151 135 159 159 189 154 177 163 161 154 174 149 173 142 155 157 189 156 149 125 156 163 181 152 121 149 199 4906 4822 4926 4083 4587 200 164 156 146 123 150 181 156 146 123 150 181 156 146 123 150 181 156 146 123 150 181 156 146 123 150 181 156 146 123 150 181 156 149 125 156 163 181 156 146 123 150 181 156 146 123 150 181 156 146 123 150 181 156 149 125 156 163 181 1 152 121 149 1005 PEAK STAGE UNIOPF (AC-FT) 1996 CALENDAR YEAR COTAL 98917 ALILY MEAN 1690 May 27 ADALLY MEAN 174 Apr 30 NNUAL MEAN 1690 PEAK STAGE UNIOPEF (AC-FT) 1996 CALENDAR YEAR 1935 EVEN-DAY MINIMUM 74 Apr 30 NNUOUS PEAK STAGE UNIOPEF (AC-FT) 196200 ENT EXCEEDS 552 ENT EXCEEDS 552 ENT EXCEEDS 552 ENT EXCEEDS 552	OCT NOV DEC JAN FEB MAR APR 242 187 154 152 129 146 150 223 192 160 148 126 156 179 212 177 155 160 125 150 196 216 171 153 154 124 162 204 216 193 154 152 135 139 233 209 172 161 140 128 158 212 212 158 156 133 121 143 196 205 157 161 145 141 147 184 205 162 163 146 142 148 162 2198 168 168 163 140 145 149 157 202 162 159 117 146 147 152 196 158 158 30 151 149 161 201 157 160 149 151 148 164 196 157 149 187 148 149 160 201 166 153 193 146 145 145 148 162 201 166 153 193 146 145 145 142 198 168 168 168 158 30 151 149 161 201 157 160 149 151 148 164 196 157 149 187 148 149 160 191 183 139 201 143 139 e159 188 165 123 200 140 137 e170 188 165 123 200 140 137 e170 202 163 145 240 158 126 e189 188 165 123 200 140 137 e170 202 163 145 240 158 126 e189 195 165 175 252 154 125 e173 198 150 190 245 171 130 e176 203 154 191 227 166 145 e182 199 154 177 163 161 154 e171 174 149 173 142 155 157 e448 183 149 153 133 158 175 e725 198 150 190 245 171 130 e176 203 154 191 227 166 145 e182 189 154 177 163 161 154 e177 174 149 173 142 155 157 e448 183 149 153 133 158 175 e725 198 150 190 245 171 130 e176 201 164 156 149 125 156 163 e728 189 154 191 227 166 145 e182 189 155 151 135 159 159 159 e728 187 156 149 125 156 163 e738 187 156 146 123 153 e933 181 152 121 149 6199 4906 4822 4926 4083 4587 9387 242 193 191 252 171 775 938 187 156 149 125 156 163 e738 187 152 145 126 153 e933 187 120 9730 9750 9770 8100 9100 18620 CCS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 1997, BY WATER 136 129 120 113 119 121 181 397 320 255 223 298 326 1100 201 164 156 159 146 148 313 242 193 191 252 171 775 938 174 149 112 30 121 125 150 189 158 179 1995 1995 1995 1935 1935 1935 1935 1935 1935 1935 1935 1935 1935 1935 CCS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 1997, BY WATER 136 129 120 133 199 121 181 398 15995 1995 1995 1995 1995 1995 1995 1	OCT NOV DEC JAN FEB MAR APR MAY 242 187 154 152 129 146 150 e876 223 192 160 148 126 156 179 e701 212 177 155 160 125 150 196 e595 216 171 153 154 124 162 204 e530 216 193 154 152 135 139 233 e537 209 172 161 140 128 158 213 e684 212 158 156 133 121 143 196 e801 205 157 161 145 141 147 184 e843 205 162 163 146 142 148 162 e852 198 168 163 140 145 149 157 e742 202 162 159 117 146 147 152 e676 196 158 158 30 151 149 161 e773 201 157 160 149 151 148 164 e640 196 157 149 187 148 149 160 e531 201 166 153 193 146 145 e156 e492 191 183 139 201 143 139 e159 e465 188 165 123 200 140 137 e170 e462 188 164 112 218 144 126 e176 e492 188 165 123 200 140 137 e170 e462 188 164 112 218 144 126 e176 e495 197 188 165 123 200 140 137 e170 e462 188 164 112 218 144 126 e176 e495 198 168 150 190 245 171 30 e176 e318 202 163 145 240 158 158 26 e189 e432 195 165 175 252 154 125 e173 e332 198 150 190 245 171 30 e176 e318 203 154 177 163 161 154 e189 e432 195 165 175 252 154 125 e173 e332 198 150 190 245 171 30 e176 e318 219 154 177 163 161 154 e177 e366 183 149 153 133 158 175 e728 211 154 142 129 160 163 e728 218 150 140 125 155 157 e448 219 150 150 150 149 155 150 154 e189 e432 198 155 151 135 159 159 e728 e631 189 154 177 163 161 154 e177 e366 183 149 153 133 158 175 e728 e631 189 154 177 163 161 154 e177 e366 183 149 153 133 158 175 e728 e631 189 154 177 163 161 154 e177 e366 183 149 153 133 158 175 e728 e731 187 152 145 125 150 163 e738 e634 189 155 151 135 159 159 e738 e631 189 154 177 163 161 154 e177 e366 183 149 153 133 158 175 e728 e731 187 152 145 127 e738 e384 189 155 151 135 159 159 e738 e431 189 154 177 163 161 154 e177 e366 183 149 153 133 158 175 e728 e731 187 152 145 127 e738 e384 188 155 151 135 159 159 e738 e431 189 154 177 163 161 154 e177 e366 183 149 153 133 158 175 e728 e731 187 152 145 127 e738 e738 e738 e738 e738 e738 e738 e73	OCT NOV DEC JAN FEB MAR APR MAY JUN 242 187 154 152 129 146 150 e876 e703 223 192 160 148 126 156 179 e701 e915 212 177 155 160 125 150 196 e595 e1000 216 171 153 154 152 135 139 233 e537 e1240 229 172 161 140 128 158 213 e884 e139 212 158 156 133 121 143 196 e801 e2760 220 162 157 161 145 141 147 184 e843 e2890 205 162 163 146 142 148 162 e852 e2600 198 168 163 140 145 149 157 e742 e2730 200 162 157 161 145 141 147 152 e676 e2630 196 158 158 30 151 149 161 e773 e2650 201 157 160 149 151 148 164 e773 e2650 201 157 160 149 151 148 164 e773 e2650 201 157 160 149 151 148 164 e760 e2660 196 157 149 187 148 149 160 e531 e2600 201 157 160 149 151 148 164 e74 e776 e2600 201 157 160 149 151 148 164 e773 e2650 201 166 153 193 146 145 e156 e492 e2270 191 183 139 201 143 139 e159 e465 e2100 188 165 123 200 140 137 e170 e482 e1800 201 166 157 149 187 148 149 160 e531 e2600 191 183 139 201 143 139 e159 e465 e2100 198 165 175 252 154 145 125 e173 e325 e1800 198 150 190 245 171 130 e176 e382 e1800 203 154 191 277 163 161 154 e177 e696 e1510 198 150 190 245 171 130 e176 e318 e1800 198 150 190 245 171 130 e176 e318 e1800 198 150 190 245 171 130 e176 e318 e1800 199 154 177 163 161 154 e177 e696 e1510 198 150 190 245 171 130 e176 e318 e1800 199 154 177 163 161 154 e177 e696 e1510 198 150 190 245 171 130 e176 e318 e1800 199 154 177 163 161 154 e177 e696 e1510 199 154 142 129 160 163 e752 e521 e1170 201 154 149 153 133 158 175 e725 e721 e1170 211 154 142 129 160 163 e752 e537 e743 189 155 151 135 159 159 e728 e613 e900 197 156 149 125 156 163 45 e182 e380 e170 221 168 156 149 125 156 163 e32 e280 e170 191 183 159 159 159 e728 e613 e900 197 156 149 125 156 163 145 e177 e393 e484 202 13 154 191 252 171 175 e93 e728 e613 e900 197 156 149 125 171 175 e93 e728 e721 e1170 211 154 142 129 160 163 e138 e139 e148 e578 2120 9730 9560 9770 8100 9100 18620 36780 101900 100 164 156 156 146 123 150 e894 e431 e659 21985 1970 1970 1980 1980 1993 1942 1980 1949 225 153 132 279 924 4 303 32 117 17	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL 242 187 154 152 129 146 150 e876 e703 e421 223 192 160 148 126 156 179 e701 e915 e329 2122 177 155 160 125 150 196 e895 e1000 e252 216 171 153 154 124 162 204 e530 e988 e233 216 193 154 152 135 139 233 e537 e1240 e193 216 171 153 154 124 162 204 e630 e988 e233 213 158 156 123 135 134 124 162 204 e630 e988 e233 213 158 156 133 121 143 196 e801 e2760 e292 216 171 e153 154 154 144 162 204 e630 e988 e233 213 158 156 133 121 143 196 e801 e2760 e292 216 171 e153 154 144 152 e865 e2600 e258 e258 e2600 e2600 e2600 e258 e2600 e2600 e256 e2500 e2600 e2600 e256 e2600	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG 242 187 154 152 129 146 150 1876 193 423 433 221 192 160 148 126 156 179 e701 e815 e329 e331 221 177 155 160 125 150 196 e595 e1000 e252 e290 2216 171 153 154 152 135 139 233 e537 e1240 e193 e485 2216 193 154 152 135 139 233 e537 e1240 e193 e485 2216 193 154 152 135 139 233 e537 e1240 e193 e485 231 154 152 135 139 239 e331 232 158 156 133 121 143 196 e801 e2760 e290 e794 212 158 156 133 121 143 196 e801 e2760 e290 e794 212 158 156 133 121 143 196 e801 e2760 e290 e794 205 157 161 145 145 141 147 184 e843 e2890 e280 e490 205 162 163 146 142 148 162 e852 e2600 e288 e331 202 162 159 117 146 147 152 e676 e2630 e224 e408 202 162 159 137 146 149 157 e646 e921 e270 e273 e478 202 162 159 137 146 149 157 e646 e2660 e324 e418 201 157 149 187 148 149 160 e531 e2660 e324 e438 201 157 149 187 148 149 160 e531 e2660 e324 e384 201 157 149 187 148 149 160 e531 e2660 e324 e384 201 166 153 193 146 145 145 e166 e492 e2270 e315 e333 188 165 123 200 140 137 e170 e482 e1870 e267 e270 198 188 165 123 200 140 137 e170 e482 e1870 e267 e270 202 162 159 147 148 149 160 e311 e2600 e321 e342 203 154 191 227 166 145 e189 e465 e190 e286 e287 203 154 191 227 166 145 e189 e465 e190 e286 e287 203 154 191 227 166 145 e189 e465 e190 e286 e287 203 154 191 227 166 145 e189 e482 e1870 e267 e270 203 154 191 227 166 145 e189 e482 e1800 e286 e283 203 154 191 227 166 145 e189 e482 e1800 e286 e283 203 154 191 227 166 145 e189 e482 e1800 e286 e283 203 154 191 227 166 145 e189 e482 e1800 e286 e283 203 154 191 227 166 145 e189 e482 e1800 e286 e283 203 154 191 227 166 145 e189 e482 e1800 e286 e280 203 154 191 227 166 145 e189 e482 e1800 e286 e280 203 154 191 227 166 145 e189 e482 e1800 e286 e280 203 154 191 227 166 145 e189 e482 e1800 e286 e280 203 154 191 227 166 e189 e482 e380 e1700 e286 e280 203 154 191 277 166 e189 e189 e189 e482 e1800 e286 e280 203 154 191 277 166 e189 e189 e189 e189 e189 e189 e189 e189

e-Estimated

a-Site and datum then in use, from rating curve extended above $4700~{\rm ft}^3/{\rm s}$.

402114105350101 BIG THOMPSON RIVER BELOW MORAINE PARK NEAR ESTES PARK, CO

LOCATION.--Lat 40°21'14", long 105°35'01", in SE¹/4SW¹/4 sec. 33, T.5 N., R.73 W., Larimer County, Hydrologic Unit 10190006, on left upstream wingwall of bridge at lower Moraine Park parking lot, in Rocky Mountain National Park, and 4.0 mi southwest of Estes Park.

DRAINAGE AREA.--39.4 mi² (determined by the National Park Service).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1995 to September 1997 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 8,005 ft above sea level, from topographic map.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. No diversion or regulation upstream from gage.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	28 26 33 40 33	15 e15 15 14 14	e9.5 e9.2 e9.3 e9.6 e8.8	e5.4 e5.3 e5.3 e5.2 e5.2	e4.1 e4.1 e4.1 e4.1 e4.0	e4.4 e4.5 e4.7 e4.9 e5.0	e8.9 e9.1 e9.3 e9.5 e9.7	32 28 27 26 35	389 457 533 558 591	207 174 173 165 160	134 120 109 100 122	58 56 56 62 57
6 7 8 9 10	29 28 25 24 23	e15 e14 e13 e13 e14	e8.0 e7.6 e7.2	e5.1 e5.0 e5.0 e4.9 e4.9	e4.0 e4.0 e4.0 e4.0 e4.0	e5.2 e5.3 e5.5 e5.7 e5.8	e9.9 e10 10 10 e11	48 63 72 73 86	526 454 426 450 401	150 152 153 142 146	167 132 107 98 241	52 50 51 43 40
11 12 13 14 15	22 21 21 20 19	e13 e12 11 11 e11	e6.8 e6.7 e6.6 e6.5 e6.4	e4.8 e4.8 e4.7 e4.7	e4.0 e4.0 e4.0 e4.0 e4.0	e6.0 e6.1 e6.2 e6.3 e6.4	e11 e11 e11 e12 10	98 90 87 102 107	467 401 364 384 396	143 128 129 126 121	244 171 141 129 108	39 40 40 38 39
16 17 18 19 20	19 16 e18 e17 e16	e12 e12 e11 e11 e11	e6.1	e4.6 e4.6 e4.5 e4.5 e4.5	e3.9 e3.9 e3.8 e3.8 e3.8	e6.5 e6.6 e6.7 e6.8 e6.9	12 12 15 17 21	147 189 218 232 218	317 327 377 470 554	119 114 117 125 123	101 106 103 108 95	37 35 38 62 143
21 22 23 24 25	e16 e17 e16 e16 15	e11 11 11 e11 e11	e5.9 e5.8 e5.8 e5.8	e4.5 e4.5 e4.4 e4.4	e3.7 e3.6 e3.7 e3.8 e3.9	e7.0 e7.2 e7.4 e7.5 e7.7	28 22 20 20 28	242 348 321 289 240	480 440 395 323 295	119 113 110 118 115	85 82 75 74 74	127 99 93 91 75
26 27 28 29 30 31	15 e15 e15 15 e15 e15	e10 e10 e10	e5.7 e5.6 e5.5 e5.4	e4.3 e4.3 e4.2 e4.2 e4.2 e4.2	e4.0 e4.1 e4.2 	e7.8 e8.0 e8.2 e8.4 e8.5 e8.6	28 26 33 51 40	191 152 135 157 187 265	269 260 235 227 216	107 101 97 104 117 158	79 78 74 69 60 55	72 82 67 59 54
TOTAL MEAN MAX MIN AC-FT	648 20.9 40 15 1290	363 12.1 15 10 720	211.4 6.82 9.6 5.4 419	145.2 4.68 5.4 4.2 288	110.6 3.95 4.2 3.6 219	201.8 6.51 8.6 4.4 400	525.4 17.5 51 8.9 1040	4505 145 348 26 8940	11982 399 591 216 23770	4126 133 207 97 8180	3441 111 244 55 6830	1855 61.8 143 35 3680
STATIST	CICS OF MO	NTHLY ME	AN DATA F	OR WATER Y	EARS 1996	- 1997,	BY WATER Y	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	17.9 20.9 1997 14.9 1996	10.9 12.1 1997 9.60 1996	6.74 6.82 1997 6.66 1996	4.37 4.68 1997 4.05 1996	4.16 4.36 1996 3.95 1997	5.36 6.51 1997 4.21 1996	16.4 17.5 1997 15.2 1996	144 145 1997 142 1996	345 399 1997 290 1996	127 133 1997 121 1996	79.3 111 1997 47.7 1996	45.3 61.8 1997 28.9 1996
SUMMARY	STATISTI	CS	FOR	1996 CALEN	DAR YEAR	F	OR 1997 WAT	TER YEAR		WATER YEA	ARS 1996	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN AN N MINIMUM AK FLOW AK STAGE C-FT)		21278.3 58.1 410 a,e3.4 3.5 42210 200 17 4.0	Jun 10 Feb 27 Feb 27		28114.4 77.0 591 3.6 3.7 787 6.78 55760 233 17 4.4	Jun 5 Feb 22 Feb 18 Jun 20 Jun 20		67.2 77.0 57.4 591 e,a3.4 e3.5 787 6.78 48690 216 16 4.1	Feb 2 Feb 2 Jun 2	1997 1996 5 1997 27 1996 27 1996 20 1997

e-Estimated.

a-Also occurred Mar 4, and 7-8 (all are estimated discharges).

402114105350101 BIG THOMPSON RIVER BELOW MORAINE PARK NEAR ESTES PARK, CO--Continued (National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

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

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	BICAR-a BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-b LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
OCT 1996 03	1220	36	18	7.2	9.5	9.3	6	5
NOV 22	1200	11	24	7.0	5.0	10.1	8	7
DEC 09	1350	7.1	25	7.0	0.0	10.5	9	7
JAN 1997 22	1310	4.4	26	6.9	0.0	10.8	9	7
FEB 12	1235	4.0	28	7.1	0.0	10.7	9	7
MAR	1210	6.1	31	7.1	0.0	10.7	11	9
12 APR								_
10 MAY	1320	11	31	7.0	0.5	10.9	10	8
09 JUN	1550	68	28	7.1	12.0	8.5	7	6
05 19	1215 1710	492 408	17 14	6.8 6.9	8.0 11.0	9.3 7.8	4	4 3
JUL 08	1235	140	13	7.2	11.0	9.1	4	4
AUG 04	1115	102	13	7.0	14.0	8.0	5	4
SEP 11	0840	42	16	7.2	10.0	8.6	5	4
DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT 1996 03	GEN, NITRITE DIS- SOLVED (MG/L AS N)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	GEN, AMMONIA DIS- SOLVED (MG/L AS N)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHORUS TOTAL (MG/L AS P)	PHORUS DIS- SOLVED (MG/L AS P)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT 1996 03 NOV 22	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHORUS TOTAL (MG/L AS P) (00665)	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 1996 03 NOV 22 DEC 09	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHORUS TOTAL (MG/L AS P) (00665)	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 1996 03 NOV 22 DEC 09 JAN 1997 22	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <0.01	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 0.09	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <0.015	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) <0.2	PHORUS TOTAL (MG/L AS P) (00665) <0.01	PHORUS DIS- SOLVED (MG/L AS P) (00666) <0.01	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <0.01
OCT 1996 03 NOV 22 DEC 09 JAN 1997 22 FEB 12	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <0.01 0.03	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 0.09 0.18	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <0.015 0.03 <0.015	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) <0.2 <0.2	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) <0.2 <0.2	PHORUS TOTAL (MG/L AS P) (00665) <0.01 <0.01	PHORUS DIS- SOLVED (MG/L AS P) (00666) <0.01 <0.01	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <0.01 <0.01
OCT 1996 03 NOV 22 DEC 09 JAN 1997 22 FEB 12 MAR 12	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <0.01 0.03 0.01	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 0.09 0.18 0.17	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <0.015 0.03 <0.015	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) <0.2 <0.2 <0.2 <0.2	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) <0.2 <0.2 <0.2	PHORUS TOTAL (MG/L AS P) (00665) <0.01 <0.01 <0.01	PHORUS DIS- SOLVED (MG/L AS P) (00666) <0.01 <0.01 <0.01	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <0.01 <0.01 <0.01
OCT 1996 03 NOV 22 DEC 09 JAN 1997 22 FEB 12 MAR 12	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <0.01 0.03 0.01 <0.01	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 0.09 0.18 0.17 0.14	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <0.015 0.03 <0.015 <0.015	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) <0.2 <0.2 <0.2 <0.2	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) <0.2 <0.2 <0.2 <0.2 <0.2	PHORUS TOTAL (MG/L AS P) (00665) <0.01 <0.01 <0.01 <0.01	PHORUS DIS- SOLVED (MG/L AS P) (00666) <0.01 <0.01 <0.01 <0.01 <0.01	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <0.01 <0.01 <0.01
OCT 1996 03 NOV 22 DEC 09 JAN 1997 22 FEB 12 MAR 12 APR 10 MAY	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <0.01 <0.01 <0.01 <0.01	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 0.09 0.18 0.17 0.14 0.15	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <0.015 <0.015 <0.015 <0.015	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	PHORUS TOTAL (MG/L AS P) (00665) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	PHORUS DIS- SOLVED (MG/L AS P) (00666) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <0.01 <0.01 <0.01 <0.01 <0.01
OCT 1996 03 NOV 22 DEC 09 JAN 1997 22 FEB 12 MAR 10 APR 10 MAY 09 JUN 05	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <0.01 0.03 0.01 <0.01 <0.01 <0.01 <0.01	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 0.09 0.18 0.17 0.14 0.15 0.12 0.08	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <0.015 0.03 <0.015 <0.015 <0.015 <0.015	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	PHORUS TOTAL (MG/L AS P) (00665) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	PHORUS DIS- SOLVED (MG/L AS P) (00666) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <0.01 <0.01 <0.01 <0.01 <0.01
OCT 1996 03 NOV 22 DEC 09 JAN 1997 22 FEB 12 MAR 10 MAY 09 JUN 05 19	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <0.01 0.03 0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 0.09 0.18 0.17 0.14 0.15 0.12 0.08 0.08	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <0.015 0.03 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.	PHORUS TOTAL (MG/L AS P) (00665) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.05 <0.01	PHORUS DIS- SOLVED (MG/L AS P) (00666) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01
OCT 1996 03 NOV 22 DEC 09 JAN 1997 22 FEB 12 MAR 12 APR 10 MAY 09 JUN 05	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 0.09 0.18 0.17 0.14 0.15 0.12 0.08 0.08 0.08	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.	PHORUS TOTAL (MG/L AS P) (00665) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	PHORUS DIS- SOLVED (MG/L AS P) (00666) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01

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

402114105350101 BIG THOMPSON RIVER BELOW MORAINE PARK NEAR ESTES PARK, CO--Continued (National Water-Quality Assessment Program station)

DATE	TIME			SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	
MAR 1997	1010	<i>c</i> 1	1 ^c	0.00	
12 APR	1210	6.1	1.	0.02	
10	1320	11	1 ^c	0.02	
MAY			_		
09	1550	68	8 ^C	1.5	
JUN					
05	1130	510	12	16	
19	1650	401	8	8.7	58
19	1710	408	9 ^C	9.9	47
JUL					
08	1230	140	5	1.9	57
08	1235	140	6 ^C	2.3	51
AUG					
04	1115	102	6 ^C	1.7	69

 $[\]hbox{c-Suspended-sediment concentration determined from a subsample split of a composite sample.}\\$

06733000 BIG THOMPSON RIVER AT ESTES PARK, CO

LOCATION.--Lat 40°22'42", long 105°30'48", in NW1/4NW1/4 sec.30, T.5 N., R.72 W., Larimer County, Hydrologic Unit 10190006, on right bank in Estes Park, 600 ft downstream from bridge on State Highways 7 and 66, 900 ft downstream from Black Canyon Creek, and 0.3 mi northwest of Estes powerplant. Station is upstream from Lake Estes.

DRAINAGE AREA.--137 mi².

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

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

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversion from Colorado River basin passed this station from Aug. 10, 1947 to Aug. 2, 1950. Small power developments and small diversions for irrigation and municipal use above station. Diversions upstream from station from Wind River to Lake Estes (bypassing this station), were 1510 acre-ft during current year.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	73 67 79 91 83	36 34 34 34 33	16 e16 e17 e18 e19	e19 e19 e19 e20 e20	e17 e17 e17 e16 e16	e15 e15 e15 e15 e15	27 26 30 34 30	90 81 79 81 105	883 1030 1080 1080 1180	462 400 389 372 362	e297 256 234 229 284	128 126 124 131 124
6 7 8 9 10	75 70 65 62 59	30 e33 e33 34 31	e20 e21 e21 e21 e21	e20 e20 e20 e20 e20	e16 e15 e15 e15 e14	e15 e15 e15 e15 e15	25 27 27 27 21	135 170 189 187 212	1110 1030 990 1090 931	338 329 333 317 321	401 346 265 240 567	118 114 109 97 91
11 12 13 14 15	55 53 51 50 48	30 29 28 28 29	e21 e21 e21 e20 e20	e20 e20 e20 e21 e21	e14 e14 e13 e13 e13	e15 e15 e15 e15 e15	25 27 27 26 27	241 213 204 242 258	1040 906 814 846 876	325 290 286 277 267	551 411 342 308 256	86 84 81 81 77
16 17 18 19 20	49 44 39 46 45	24 26 36 38 33	e20 e20 e20 e20 e20	e20 e20 e20 e20 e20	e13 e14 e14 e14 e14	e15 e15 e15 20 24	31 35 41 50 59	351 452 532 557 513	722 725 818 992 1100	264 249 255 260 270	235 238 228 233 211	77 72 76 117 257
21 22 23 24 25	32 48 43 40 38	30 30 30 24 25	e19 e19 e19 e19	e20 e20 e19 e19 e19	e14 e14 e15 e15 e15	27 27 29 30 24	79 64 60 e58 e61	568 852 726 662 564	998 922 836 709 645	262 246 239 266 256	196 180 172 162 161	249 194 185 187 157
26 27 28 29 30 31	37 38 37 37 39 39	25 19 25 26 23	e19 e19 e19 e19 e19	e19 e19 e19 e19 e18 e18	e15 e15 e15 	26 28 27 27 24 26	67 e69 87 120 103	457 369 339 398 456 614	591 573 527 510 483	230 217 207 224 239 339	165 163 158 150 134 125	143 154 138 125 115
TOTAL MEAN MAX MIN AC-FT	1632 52.6 91 32 3240	890 29.7 38 19 1770	602 19.4 21 16 1190	608 19.6 21 18 1210	412 14.7 17 13 817 YEARS 1947	609 19.6 30 15 1210	1390 46.3 120 21 2760	10897 352 852 79 21610	26037 868 1180 483 51640	9091 293 462 207 18030	7898 255 567 125 15670	3817 127 257 72 7570
MEAN MAX (WY) MIN (WY)	42.3 112 1962 22.2 1989	27.0 52.7 1962 15.6 1965	16.7 35.1 1948 9.68 1977	12.5 25.1 1948 4.89 1977	12.1 22.7 1962 5.77 1977	14.7 25.5 1986 8.39 1977	40.4 103 1962 17.2 1995	246 479 1958 112 1968	570 947 1949 191 1954	329 739 1957 112 1977	146 273 1983 66.7 1954	69.9 143 1961 37.4 1988
SUMMARY	STATISTI	CS	FOR 1	.996 CALE	NDAR YEAR	F	OR 1997 W	ATER YEAR		WATER YE	CARS 1947	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN AN N MINIMUM AK FLOW AK STAGE C-FT) DS DS		48957 134 858 e,a13 14 97110 440 45 16	Jun 22 Mar 6 Mar 3		1180 e,b ₁₃ 13 1340 6.21 126700 540 46	Jun 5 Feb 13 Feb 10 Jun 5 5 Jun 5		128 189 63.3 1520 3.0 3.2 4 5500 6.89 92400 390 37 11	Jan 1 Jan 1 Jul 1	1949 1954 7 1965 13 1977 .0 1977 .5 1982 .7 1965

e-Estimated.

a-Also occurred Mar 7. b-Also occurred Feb 14-16.

c-Also occurred Jan 14-16, 1977. d-Caused by failure of Lawn Lake Dam, gage height, indeterminate; maximum natural discharge, 1870 ft³/s, Jun 18, 1995, gage height, 6.80 ft.

06734900 OLYMPUS TUNNEL AT LAKE ESTES, CO ${\bf WATER\text{-}QUALITY\ RECORDS}$

 $LOCATION.--Lat~40^{o}22'30", long~105^{o}29'13", in~SE^{1/4}NW^{1/4}~sec. 29, T.5~N.,~R.72~W.,~Larimer~County,~Hydrologic~Unit~10190006, at~tunnel~entrance~at~south~end~of~Olympus~Dam~on~Lake~Estes,~1.9~mi~east~of~Estes~Park.$

PERIOD OF RECORD.--September 1970 to present.

REMARKS.--Tunnel is part of Colorado-Big Thompson project. Field data collected prior to 1974 water year available in district office. Records of discharge are estimated values.

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

DATE NOV 12	CH I C TIME S (C	NST. C CUBIC C FEET D	UCT- (ST NCE I S/CM) UI 0095) (00	ARD W	TURE IATER DEG C)	DIS- SOLVED (MG/L)	TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA)
MAR 10	1200 4	120	51 7	. 6	1.5	10.1	22	6.7	1.2	2.2
JUL										
18	1028 5	520	21 7	. 4	14.5	7.5	8	2.3	0.46	1.1
DATE	SORP- TION RATIO	SIUM, DIS- SOLVED (MG/L AS K)	(MG/L AS	DIS- SOLVEI (MG/L AS SO4)	DIS- SOLVE (MG/I AS CI	DIS D SOLV (MG/	, DIS- - SOLV ED (MG/ L AS) SIO2	CA, RESID - AT 18 /ED DEG. /L DIS	O CONS C TUEN - DI ED SOI L) (MO	OF STI- NTS, IS- LVED G/L)
NOV 12	0.2	0.6	17	2.0	0.5	0.2	4.7	7 1	6	25
MAR 10	0.2	0.7	24	2.7	0.7	0.1			6	34
JUL 18	0.2	0.7	9.4		0.4		3.5			16
18	0.2	0.3						/ 2		
DATE	DIS- SOLVED	SOLVED (TONS PER DAY)	GEN, NITRITE DIS- SOLVED (MG/L AS N)	NO2+NO3 DIS- SOLVEI	GEN, B AMMONI DIS- SOLVE (MG/I AS N)	GEN,A A MONIA ORGAN TOTA (MG/	M- + PHOS IC PHORU L TOTA L (MG/) AS I	JS DIS AL SOLV 'L (MG/	S ORT - DIS ED SOLV L (MG/) AS I	RUS FHO, S- JED /L P)
NOV 12	0.02	2 21.7	<0.01	0.08	0.02	2 <0.	2 0.0	06 <0.0	1 <0.	.01
MAR 10	0.05		<0.01	0.07	0.02					
JUL 18	0.03		<0.01	<0.05	0.03					.01
20	0.00	32.0	.0.01	10.05	0.00			,_ ,,,,		
DATE	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	(UG/L AS CD)	DIS- SOLVE (UG/I AS CF	COBAL DIS- ED SOLVE (UG/ R) AS C	D SOLV L (UG/ O) AS (DIS DED SOLV L (UG/	- DI ED SOI L (UC E) AS	IS- LVED G/L PB)
NOV 12	5	<0.5	4.3	<1	<5	<3	<10	35	<10)
MAR 10	7	<0.5	<4.0	<1	<5	<3	<10	19	<10)
JUL 18	4	<0.5	<4.0	<1	<5	<3	<10	60	<10)
DATE	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	DIS- SOLVED (UG/L AS MN)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MOLYB- DENUM, DIS- SOLVEI (UG/L AS MO)	NICKEI DIS- SOLVE (UG/I AS NI	DIS D SOLV (UG/	- DIS ED SOLV L (UG/ G) AS S	JM, DIUM S- DIS /ED SOLV /L (UG/ SR) AS V	, ZIN - DI ED SOI L (UC	NC, IS- LVED 3/L ZN) 090)
NOV 12 MAR	<4	3	<10	<10	<10	<1	25	<6	4	1
10	<4	3	20	<10	<10	<1	40	<6	3	3
JUL 18	<4	3	10	<10	<10	<1	13	<6	<3	3

06737500 HORSETOOTH RESERVOIR NEAR FORT COLLINS, CO

LOCATION.--Lat 40°36′00", long 105°10′06", in NW¹/4SW¹/4 sec.6, T.7 N., R.69 W., Larimer County, Hydrologic Unit 10190007, on right bank near abutment of Horsetooth Dam on tributaries to Cache la Poudre River, 4.8 mi west of city hall in Fort Collins.

RESERVOIR ELEVATIONS AND CONTENTS RECORDS

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

GAGE.--Nonrecording gage read at irregular intervals from 1 to 10 days. Datum of gage is 5,430.00 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 earth and rockfill dike and dams closing openings in subsequent valleys between hogbacks; storage began Jan. 10, 1951; dams completed July 21, 1949. Usable capacity, 143,500 acre-ft above elevations 5,320 ft, invert of channel from Spring Canyon Dam, 5,310 ft, invert of channel from Dixon Canyon Dam, 5,270 ft, trashrack sill of outlet at Soldier Canyon Dam, and below maximum water-surface elevation, 5,430 ft, 6 ft below crest of Satanka Dike. Dead storage, 7,003 acre ft. Figures given represent usable contents. Water is diverted from Colorado River basin through Alva B. Adams tunnel for supplemental irrigation supply to Cache la Poudre River. Water-quality sampling at three sites in reservoir.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 148,400 acre-ft, June 26-27, 1995, elevation, 5,429.36 ft; minimum observed, 9 acre-ft, Nov. 16-30, 1977, elevation, 5,270.25 ft; no storage prior to Apr. 18, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum contents, observed, 145,600 acre-ft, June 30, elevation, 5,427.97 ft; minimum, observed, 113,300 acre-ft, Oct. 20, elevation, 5,410.84 ft.

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

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30. Oct. 31. Nov. 30. Dec. 31.	5,411.97 5,411.32 5,413.84 5,416.39	115,300 114,200 118,700 123,300	-1,100 +4,500 +4,600
CAL YR 1996	-	-	+5,200
Jan. 31. Feb. 28. Mar. 31. Apr. 30. May 31. June 30. July 31. Aug. 31. Sept. 30.	5,418.68 5,420.81 5,421.30 5,423.74 5,417.19 5,427.97 5,425.17 5,425.17 5,425.44	127,600 131,600 132,500 137,200 124,800 145,600 140,000 134,900 117,300	+4,300 +4,000 +900 +4,700 -12,400 +20,800 -5,600 -5,100 -17,600
WTR YR 1997	-	-	+2,000

06737500 HORSETOOTH RESERVOIR NEAR FORT COLLINS, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1969 to current year.

REMARKS.--Samples collected at various depths near north end of reservoir near Soldier Canyon Dam.

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

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 08	1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031	0.1 5.0 10 15 20 25 30 40 50 60 70 80 90 100 110 120 130 140	48 48 48 48 48 47 47 47 48 51 53 54 55 55 55 57	7.4 7.4 7.4 7.4 7.4 7.3 7.3 7.2 7.0 6.9 6.9 6.9 6.8 6.8	16.5 16.0 16.0 16.0 16.0 15.5 15.5 15.5 11.0 10.5 10.0 9.5	7.55 7.55 7.55 7.49 6.86 6.72 4.78 4.66 4.53 9.33
MAY 19	1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034	0.1 5.0 10 15 20 25 30 40 50 60 70 80 90 110	55 55 55 55 55 55 55 54 54 53 53 53 53	7.9 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	10.5 10.5 10.5 10.5 10.5 10.5 8.0 7.0 7.0 6.5 6.5 6.5	8.8 8.8 8.8 8.8 9.1 9.1 9.2 9.2 9.2 9.2
AUG 21	1000 1001 1002 1003 1004 1005 1006 1007 1008 1010 1011 1012 1013 1014 1015 1016 1017 1018	0.1 5.0 10 15 20 25 30 40 50 60 70 80 90 100 110 120 130 140 150	49 49 49 49 50 52 46 45 47 50 52 53 53 53 53 54 54	8.0 8.1 7.9 7.8 7.7 7.6 7.4 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1	21.5 21.0 20.0 20.0 20.0 20.0 18.5 17.5 15.0 12.0 9.5 9.0 8.5 8.5 8.5 8.0	7.7 7.5 7.4 7.3 6.9 6.2 5.5 6.8 6.9 6.9 7.0 6.7

06737500 HORSETOOTH RESERVOIR NEAR FORT COLLINS, CO--Continued

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

				WAIEN	-QUALI	IIDA	MAI, WAI	EK IEA	IK OC	IODER	. 1990			EK 1997			
DATE	TIME	SAM PLI DEP (FE (000	(- () NG I TH 2 ET) (SPE- CIFIC CON- DUCT- ANCE JS/CM)	PH (STAN ARI UNIT (0040	ND- O CS)	TEMPER- ATURE WATER (DEG C) (00010)	PA EN (SEC DIS	CY CHI K) N)	OXYGE DIS SOLV (MG) (0030	S- /ED /L)	COLI- FORM, FECAI 0.7 UM-MF (COLS. 100 MI (31625	,] , , , , , , , , , , , , , , , , , ,	HARD- NESS TOTAL (MG/L AS CACO3) 00900)	CALC: DIS: SOL' (MG AS:	- VED /L CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
OCT 08 08	1045 1100	0. 140	1	48 58	7.4 6.8		16.5 9.5	15		7. 3.		<1 		21 25	6. 8.		1.1 1.3
MAY 19 19	1045 1100	0. 110	1	55 53	7.9 7.7		10.5 6.5	10		8.		<1		23 24	7. 7.		1.2 1.2
AUG 21 21	1030 1045	0. 150	1	49 54	8.0 7.1		21.5 8.0	15		7. 6.		K1		20 23	6. 7.	3	1.0 1.2
DATE	SODIUM DIS- SOLVED (MG/L AS NA	, A SOR TI RAT	D- P- ON S	POTAS- SIUM, DIS- SOLVED MG/L AS K)	ALKALINITA LANG (MG/ AS CACC	FY : 3 /L 03) :	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHL RID DIS SOL (MG AS	E, - VED /L CL)	FLUC RIDE DIS SOLV (MG/ AS E	E, S- /ED /L ?)	SILICA DIS- SOLVE (MG/I AS SIO2)	A, R A' ED	OLIDS, ESIDUE T 180 DEG. C DIS- SOLVED (MG/L) 70300)	SOLII SUM (CONS' TUEN' DI: SOL' (MG (703)	OF TI- TS, S- VED /L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
OCT 08 08	2.0		. 2	0.6 0.7	22 26		2.3		0.7	0.		2.8 4.7		48 50		30 37	<0.01 <0.01
MAY 19 19	2.0		. 2	0.6	25 25		2.7		0.8 0.8	0.0		2.4		47 47		32 33	<0.01 <0.01
AUG 21 21	1.8		. 2	0.6	22 25		2.2		0.7	0.0		2.9		35 40		29 33	<0.01 <0.01
) ATE	NITRO- GEN, 02+N03 DIS- SOLVED (MG/L AS N) 00631)	NITRO GEN AMMONI DIS- SOLVI (MG/I AS N (00608	GEN EA MON ORC ED TO L (N		PHORE TOTAL (MG, AS 1 (006)	S- PHC US I AL SC /L (M P) AS	IOS- DRUS DIS- DLVED IG/L 3 P)	PHO OR' DI SOL' (MG AS	THO, S- VED /L	PH PL T CHR FLU (U	ANK- ON OMO C OROM F G/L)	PHYTON PLAN TON CHROM CLUOR (UG/	O- CAF K- ORG DI O SOI OM (M L) AS	RBON, GANIC IS- LVED MG/L G C)	SU: PEN! TO' (MG	ANIC S-
OCT 08. 08.		<0.05 0.15	0.0		<0.2 <0.2	<0.0		0.01		.01		. 2	<0.1		3.3	<	- 0.1
MAY 19. 19.		<0.05 <0.05	0.0		0.2 0.2	<0.0		0.01		.01		.5	<0.1			_	
AUG 21. 21.		<0.05 0.16	<0.0 <0.0		0.2	<0.0 <0.0		0.01		.01		. 4	<0.1			_	
D	ATE	TIME	BARIUM DIS- SOLVEM (UG/1 AS BA (01009	M, L1 D1 D SC L (U		BORG DIS SOL' (UG AS 1	S- I VED SC /L (U	DMIUM DIS- DLVED JG/L G CD)	MI DI SO (U	LVED G/L CR)	DI SOL (U AS	S- VED G/L CO)	COPPE DIS- SOLV (UG/ AS C	ED SC L (U	RON, DIS- DLVED JG/L S FE) LO46)	D: SO: (U: AS	AD, IS- LVED G/L PB) 049)
OCT 08. 08.		1045 1100	17 15		<0.5 <0.5		. 9	<1 <1		<5 <5		<3 <3	<10 <10		9 12		10 10
MAY 19. 19.		1045 1100	16 17		<0.5 <0.5		. 3	<1 <1		<5 <5		<3 <3	<10 <10		15 8		10 10
AUG 21. 21.		1030 1045	15 15		<0.5 <0.5	<4 <4		<1 <1		<5 <5		<3 <3	<10 <10		4 <3		10 10
	DATE	SOL (UG AS	IUM S S- H VED H S/L LI) A	MANGA- NESE, COTAL RECOV- ERABLE (UG/L AS MN)	SOLV (UG/ AS N	E, S- /ED /L MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	DIS SOL (UG AS	- VED /L NI)	DIS SOLV (UG/ AS A	S- /ED /L AG)	STRON TIUM DIS- SOLVE (UG/I AS SR (01080	1, : ED :	VANA- DIUM, DIS- SOLVED (UG/L AS V) 01085)	ZING DI SOL (UG AS	S- VED /L ZN)	
	08 08		4 4		1	L 2	<10 <10	<1 <1		<0. <0.		29 37		<6 <6	<3 <3		
	19 19		4 4	<10 <10	: -		<10 <10	<1 <1		<0. <0.		33 34		<6 <6	<3 5		
A	.UG 21 21		4 4	<10 <10	<1 <1		<10 <10	<1 <1		<0. <0.		27 32		<6 <6	<3 <3		
К-	Based on	non-ide	al colo	nv cour	ıt.												

K-Based on non-ideal colony count.

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

REMARKS.--Samples were collected near surface and near bottom, near south end of reservoir near Spring Canyon Dam.

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

OCT 08	DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
19 1130 0.1 57 7.7 13.0 8.2 19 1131 5.0 57 7.7 13.0 8.2 19 1132 10 57 7.7 13.0 8.2 19 1133 15 56 7.7 13.0 8.2 19 1134 20 56 7.7 13.0 8.2 19 1135 25 56 7.7 13.0 8.2 19 1136 30 55 7.7 8.5 8.8 19 1137 40 54 7.7 7.5 8.9 19 1138 50 54 7.7 7.5 9.0 19 1138 50 54 7.7 7.5 9.0 19 1140 70 54 7.7 7.5 9.0 19 1141 80 54 7.6 6.5 9.0 AUG 21 1120 0.10 49 8.2 21.0 7.9 21 1121 5.0 49 8.2 21.0 7.9 21 1122 10 49 8.2 21.0 7.9 21 1123 15 49 7.8 20.0 7.3 21 1124 20 49 8.2 20.0 7.3 21 1125 25 49 7.8 20.0 7.3 21 1126 30 48 7.2 19.5 6.3 21 1127 40 43 7.2 17.5 6.6 21 1128 50 45 7.0 16.0 5.7 21 1129 60 50 7.0 12.5 6.0 21 1129 60 50 7.0 12.5 6.0 21 1129 60 50 7.0 12.5 6.0 21 1130 70 51 7.0 10.5 6.4 21 1131 80 53 7.1 9.5 6.5	08 08 08 08 08 08 08 08 08 08 08 08 08	1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137	5.0 10 15 20 25 30 40 50 60 70 80 90	49 49 48 48 49 49 49 49 52 54	7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.1 6.8 6.8	15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5	7.3 6.9 6.8 6.9 7.0 7.0 7.0 6.8 6.5 4.2 3.7
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	19 19 19 19 19 19 19 19 19 19 19 19 19	1131 1132 1133 1134 1135 1136 1137 1138 1139 1140	5.0 10 15 20 25 30 40 50 60	57 57 56 56 55 54 54 54	7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7	13.0 13.0 13.0 13.0 13.0 8.5 7.5 7.5 7.0 6.5	8.2 8.2 8.2 8.2 8.9 9.0 9.0
	21 21 21 21 21 21 21 21 21 21 21 21	1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132	5.0 10 15 20 25 30 40 50 60 70 80 90	49 49 49 49 48 43 45 50 51 53 54	8.2 8.2 7.8 7.6 7.4 7.2 7.2 7.0 7.0 7.1	21.0 20.0 20.0 20.0 19.5 19.5 17.5 16.0 12.5 9.5	7.9 7.9 7.3 7.2 6.7 6.3 6.6 5.7 6.0 6.5

								COLI-			
			SPE-			TRANS-		FORM,	HARD-		MAGNE-
			CIFIC			PAR-		FECAL,	NESS	CALCIUM	SIUM,
		SAM-	CON-	рН	TEMPER-	ENCY	OXYGEN,	0.7	TOTAL	DIS-	DIS-
		PLING	DUCT-	(STAND-	ATURE	(SECCHI	DIS-	UM-MF	(MG/L	SOLVED	SOLVED
DATE	TIME	DEPTH	ANCE	ARD	WATER	DISK)	SOLVED	(COLS./	AS	(MG/L	(MG/L
		(FEET)	(US/CM)	UNITS)	(DEG C)	(IN)	(MG/L)	100 ML)	CACO3)	AS CA)	AS MG)
		(00003)	(00095)	(00400)	(00010)	(00077)	(00300)	(31625)	(00900)	(00915)	(00925)
OCT											
08	1145	0.1	49	7.3	16.0	121	7.4	K1	22	6.8	1.1
08	1200	100	60	6.8	9.0		3.4		25	7.7	1.3
MAY											
19	1145	0.1	57	7.7	13.0	73.0	8.2	<1	23	7.0	1.2
19	1200	80.0	54	7.6	6.5		9.0		23	7.4	1.2
AUG											
21	1145	0.1	49	8.2	21.5	144	7.8	K3	20	6.3	1.0
21	1200	100	54	7.1	9.0		6.5		23	7.1	1.2

 ${\tt K-Based}$ on non-ideal colony count.

403147105083800 HORSETOOTH RESERVOIR NEAR FORT COLLINS, CO--Continued

DATE OCT 08 08 MAY 19 19	SODIU DIS- SOLVE (MG/ AS N (0093	M, SOR SOR TI L RAT (A) 0) (009	D- S P- D ON SO (10 (M AS 31) (00	G/L A K) CA	ITY SUAB I S S (OLVED MG/L S SO4)	0.6	RID DI DI COMPONI COMP	1 2	CA, RESI - AT 1 VED DEG VL DI SOL 2) (MG 55) (703	80 CONS 6. C TUEN 6. C TUEN 6. C TUEN 6. C TUEN 7. C TUEN 8. C TUE	OF GEN, STI- NITRITE STS, DIS- SS- SOLVED
AUG 21 21	1. 1.	9 0 9 0	. 2	0.6 2 0.6 2	2 4	2.1	0.7 0.7	7 0	.1 2. .1 3.	9	35 40	29 <0.01 33 <0.01
D.		GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/I AS P)	PHOI S D: SO: (MG	RUS IS- LVED S G/L (P) A	ORTHO, DIS- SOLVED MG/L AS P)	CHROMO FLUOROM (UG/L)	PLANK- TON CHROMO FLUOROM (UG/L)	ORGANIC DIS- SOLVED (MG/L AS C)	SUS- PENDED TOTAL (MG/L AS C)
OCT 08. 08.		<0.05 0.15	<0.02 <0.02	<0.2 <0.2	<0.01		.01	<0.01	0.5	<0.1	 3.3	 <0.1
MAY 19. 19.		<0.05 <0.05	0.01	<0.2 <0.2	<0.01 <0.01		.01	<0.01 <0.01	0.2	<0.1		
AUG 21. 21.		<0.05 0.15	<0.01 <0.01	0.3	<0.01 <0.01	<0 <0	.01	<0.01 0.01	2.6	<0.1		
D.	ATE	TIME	DIS- SOLVED (UG/L AS BA)	SOLVED (UG/L	BORON DIS- SOLVE (UG/I AS B)	D SO	MIUM IS- LVED G/L CD)	DIS- SOLVED (UG/L AS CR)	DIS- SOLVED (UG/L AS CO)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)
OCT 08. 08.		1145 1200	17 15				<1	<5 <5	<3 <3	<10 <10	9 11	<10 <10
MAY 19. 19. AUG		1145 1200	15 16	<0.5 <0.5			<1 <1	<5 <5	<3 <3	<10 <10	18 15	<10 <10
21. 21.		1145 1200	15 15	<0.5 <0.5	<4.0 <4.0) .	<1 <1	<5 <5	<3 <3	<10 <10	5 15	<10 <10
	DATE	SOL	NE IUM TO S- RE VED ER //L (U LI) AS	TAL NE COV- D ABLE SO G/L (U MN) AS	SE, I IS- LVED S G/L (MN) A	MOLYB- DENUM, DIS- SOLVED UG/L US MO)	NICKEL DIS- SOLVE (UG/L AS NI (01065	DI ED SOL L (UG	S- DI VED SOL /L (UG AG) AS	UM, DIU S- DI VED SOL /L (UG SR) AS	M, ZIM S- DI VED SOI J/L (UC V) AS	S- JVED J/L ZN)
	CT 08 08 AY		_			:10 :10	10 <10	< 0 < 0			6 <3 6 <3	
	19 19 UG			10 10		:10 :10	<10 <10	<0 <0			:6 4 :6 10	
A	21 21			10 10		:10 :10	<10 <10	< 0 < 0			6 <3 6 <3	

06738000 BIG THOMPSON RIVER AT MOUTH OF CANYON, NEAR DRAKE, CO

LOCATION.--Lat 40°25'18", long 105°13'34", in SW¹/4SW¹/4 sec.3, T.5 N., R.70 W., Larimer County, Hydrologic Unit 10190006, on right bank at mouth of canyon, 400 ft upstream from Handy Ditch diversion dam, and 6.0 mi east of Drake.

DRAINAGE AREA.--305 mi².

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

REVISED RECORDS.--WSP 1310: 1891, 1927. WSP 1730: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,305.47 ft above sea level (levels by U.S. Bureau of Reclamation). Oct. 1, 1949 to Sept. 18, 1977, at present site, datum 8.00 ft lower, Sept. 19, 1977 to July 27, 1980, at present site, datum 7.37 ft, lower. See WSP 1710 or 1730 for history of changes prior to Oct. 1, 1949.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation. Diversions from Colorado River basin to Big Thompson River basin upstream from station through Alva B. Adams tunnel began Aug. 10, 1947 (see station 09013000 in Volume 2 for diversion during current year); since Apr. 15, 1953, this imported water has been diverted from Lake Estes through Olympus tunnel bypassing this station. Part of the natural flow of the Big Thompson River has also been diverted through Olympus tunnel since May 17, 1955, 238,400 acre-ft diverted during current year; and Dille tunnel since Apr. 20, 1959, 60.940 acre-ft, diverted during current year, and may be returned to the river just downstream from this station.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,200 ft³/s, July 31, 1976, gage height, 19.86 ft, from floodmarks, from slope-area measurements of peak flow; no flow at times in 1976 (all flow above station diverted through Olympus and Dille tunnels after flood of July 31, 1976), 1979-80 (all flow above station diverted through Dille tunnel).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1170 ft³/s, June 9, gage height, 4.42 ft; minimum daily, 20 ft³/s (estimated), Dec. 10.

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

						DAIL	MEAN VA	LUES				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	47	31	e30	e25	e30	38	117	501	254	73	140
2	98	51	e28	e29	e30	e29	41	41	784	330	59	147
3	112	59	e35	e29	e28	e28	39	40	944	327	56	125
4	110	49	e30	e33	e31	e28	41	39	838	332	98	114
5	92	31	e29	e30	e30	e28	43	40	816	396	97	114
6	88	29	e32	e29	e29	e28	41	49	867	394	81	113
7	81	23	e31	e27	e30	e29	32	64	1010	357	85	112
8	69	30	e29	e31	e28	e29	31	72	902	381	102	111
9	63	35	e30	e30	e28	e28	31	92	1100	377	105	107
10	75	33	e20	e31	e27	e30	e34	259	1080	350	81	107
11	74	30	e24	e31	e23	e28	38	344	912	298	193	105
12	72	33	e24	e31	e23	e30	36	367	904	273	220	101
13	75	34	e28	e31	e30	e32	35	336	828	184	139	96
14	64	33	e30	e31	e30	e31	37	312	753	91	81	94
15	66	33	e33	e29	e30	e32	38	382	708	78	76	65
16	66	31	e31	e32	e28	e26	38	462	694	72	73	35
17	58	29	e33	e32	e28	e30	43	386	593	63	56	34
18	60	39	e34	e28	e28	e43	54	502	584	75	52	34
19	61	37	e31	e26	e33	37	66	366	701	77	54	35
20	66	34	e30	e29	e33	34	72	265	754	63	64	37
21	60	32	e30	e30	e31	41	85	571	834	52	67	42
22	49	32	e30	e31	e28	46	71	779	752	77	73	48
23	53	32	e31	e31	e28	41	79	1100	680	107	61	48
24	51	31	e32	e31	e28	40	107	641	635	83	51	44
25	56	32	e31	e31	e28	42	111	423	522	62	78	38
26 27 28 29 30 31	57 54 52 51 49 49	33 30 29 34 35	e30 e28 e31 e31 e30 e30	e29 e29 e31 e29 e29	e27 e24 e28 	41 38 38 39 35 36	120 131 161 210 296	302 193 124 87 142 379	428 343 315 267 232	70 98 84 71 58 71	83 69 69 126 144 139	36 36 36 36 91
TOTAL	2130	1040	927	929	794	1047	2199	9276	21281	5605	2805	2281
MEAN	68.7	34.7	29.9	30.0	28.4	33.8	73.3	299	709	181	90.5	76.0
MAX	112	59	35	33	33	46	296	1100	1100	396	220	147
MIN	49	23	20	26	23	26	31	39	232	52	51	34
AC-FT	4220	2060	1840	1840	1570	2080	4360	18400	42210	11120	5560	4520

CAL YR 1996 TOTAL 39495 MEAN 108 MAX 655 MIN 20 AC-FT 78340 WTR YR 1997 TOTAL 50314 MEAN 138 MAX 1100 MIN 20 AC-FT 99800

e-Estimated.

06741510 BIG THOMPSON RIVER AT LOVELAND, CO

 $LOCATION.--Lat\ 40^{o}22'43",\ long\ 105^{o}03'38",\ in\ SE^{1}/4SE^{1}/4\ sec.24,\ T.5\ N.,\ R.69\ W.,\ Larimer\ County,\ Hydrologic\ Unit\ 10190006,\ on\ right\ bank\ 690\ ft\ downstream\ from\ county\ road\ bridge\ C-13,\ 1.7\ mi\ south\ of\ sugar\ refinery\ in\ Loveland,\ and\ 1.9\ mi\ downstream\ from\ county\ road\ bridge\ C-13,\ 1.7\ mi\ south\ of\ sugar\ refinery\ in\ Loveland,\ and\ 1.9\ mi\ downstream\ from\ county\ road\ bridge\ C-13,\ 1.7\ mi\ south\ of\ sugar\ refinery\ in\ Loveland,\ and\ 1.9\ mi\ downstream\ from\ county\ road\ bridge\ C-13,\ 1.7\ mi\ south\ of\ sugar\ refinery\ in\ Loveland,\ and\ 1.9\ mi\ downstream\ from\ county\ road\ bridge\ C-13,\ 1.7\ mi\ south\ of\ sugar\ refinery\ in\ Loveland,\ and\ 1.9\ mi\ downstream\ from\ county\ road\ bridge\ C-13,\ 1.7\ mi\ south\ of\ sugar\ refinery\ in\ Loveland,\ and\ 1.9\ mi\ downstream\ from\ county\ road\ bridge\ C-13,\ 1.7\ mi\ south\ of\ sugar\ refinery\ in\ Loveland,\ and\ 1.9\ mi\ downstream\ from\ county\ road\ bridge\ C-13,\ 1.7\ mi\ south\ of\ sugar\ refinery\ in\ Loveland,\ and\ 1.9\ mi\ downstream\ from\ county\ road\ bridge\ C-13,\ 1.7\ mi\ south\ of\ sugar\ refinery\ in\ Loveland,\ and\ 1.9\ mi\ downstream\ from\ county\ road\ bridge\ C-13,\ 1.7\ mi\ south\ of\ sugar\ refinery\ in\ Loveland,\ and\ 1.9\ mi\ downstream\ from\ county\ road\ problem for\ road\ problem\ from\ problem\ from$ Farmers Ditch diversion.

DRAINAGE AREA.--535 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD .-- July 1979 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,906 ft above sea level, from topographic map.

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

ar ve	isions, ste	ruge reser		HARGE, CUBI		SECOND, V		AR OCTOBER			997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	13 3.9 3.7 3.6 3.5	5.6 5.8 5.4 5.4	5.0 4.8 5.3 5.0 4.8	5.0 5.0 5.0 4.7 5.0	6.2 5.8 5.6 5.6	4.5 4.3 4.3 e4.4 4.7	5.1 6.1 4.9 4.5 4.6	3.1 2.9 2.8 2.9 5.5	36 87 174 497 695	141 116 111 95 81	24 20 27 37 44	13 17 23 33 37
6 7 8 9 10	3.5 3.6 3.5 3.2 3.5	5.4 5.2 5.3 5.7 5.4	7.5 13 13 13 10	e5.0 e5.0 5.0 5.0 e4.8	5.4 e5.3 e5.1 e4.9 e4.8	4.6 4.4 4.5 4.3 4.4	4.3 4.1 4.2 4.2 2.4	21 26 42 52 221	860 1420 1220 1620 1760	74 75 81 75 63	79 36 9.7 20 51	30 34 39 35 32
11 12 13 14 15	4.2 3.7 3.6 11	5.4 5.4 5.4 5.9 6.3	5.0 5.0 5.0 4.8 e4.8	e4.5 e4.4 e4.4 e4.2 e4.2	4.8 4.9 4.7 4.6 4.6	4.8 4.8 4.9 5.1 5.0	2.1 1.8 1.7 1.7	371 387 337 257 261	1480 1350 1360 1300 1260	68 72 54 59 64	25 28 30 30 30	32 31 31 27 48
16 17 18 19 20	10 9.5 9.8 9.3 9.9	6.6 5.5 5.5 5.6 5.3	e4.9 e4.9 e4.9 e4.9	e4.2 e4.1 e4.6 e5.3 e5.5	4.6 4.6 4.6 4.7 4.8	4.4 4.3 4.3 3.6 4.6	1.7 1.7 1.7 1.7	277 202 182 113 68	1200 1100 1040 1120 1170	67 48 29 34 35	30 39 44 41 32	33 23 18 19 100
21 22 23 24 25	9.1 9.1 8.4 8.3 8.0	5.4 5.3 5.4 5.0 5.1	e5.0 e5.0 e5.0 e5.0	e5.8 e6.0 e6.0 e6.0 e6.0	4.7 4.6 e4.5 4.6 e4.5	4.6 4.8 4.6 5.0	1.8 18 62 116 40	399 635 636 284 99	1220 1140 1000 896 733	30 29 35 34 42	31 31 34 26 25	89 29 27 12 40
26 27 28 29 30 31	11 8.7 7.6 7.5 6.6 5.9	5.1 5.3 5.3 5.3 5.4	e4.9 e4.8 4.8 4.8 4.9 4.9	e5.9 e5.9 e5.9 e6.0 6.1	e4.5 4.6 4.6 	4.3 4.2 4.2 4.9 5.0 4.8	22 4.2 3.6 3.3 3.1	31 18 44 71 68 62	601 472 365 277 210	61 88 123 136 29 20	25 17 6.4 6.6 9.1	85 78 75 73 53
TOTAL MEAN MAX MIN AC-FT	217.2 7.01 13 3.2 431	164.1 5.47 6.6 5.0 325	184.6 5.95 13 4.8 366	160.4 5.17 6.1 4.1 318	137.7 4.92 6.2 4.5 273	141.6 4.57 5.1 3.6 281	336.0 11.2 116 1.7 666	5181.2 167 636 2.8 10280	27663 922 1760 36 54870	2069 66.7 141 20 4100	899.8 29.0 79 6.4 1780	1216 40.5 100 12 2410
				FOR WATER Y						106	00.7	26.0
MEAN MAX (WY) MIN (WY)	26.9 66.0 1990 6.15 1988	21.3 95.8 1985 3.96 1982	9.70 36.4 1985 2.86 1993	12.5 62.8 1980 2.55 1994	11.2 59.9 1980 2.42 1993	11.0 49.3 1980 2.19 1996	39.4 292 1980 4.49 1981	246 2078 1980 4.07 1981	331 1493 1983 25.0 1982	126 418 1995 29.9 1987	80.7 153 1981 29.0 1997	36.8 83.9 1982 16.6 1990
SUMMARY	STATIST	ICS	FOR	1996 CALEN	DAR YEAR	F	OR 1997 W	ATER YEAR		WATER Y	EARS 1979	- 1997
LOWEST HIGHEST	MEAN FANNUAL ANNUAL M FDAILY M	EAN EAN		12945.5 35.4	Jun 23		38370.6 105	Jun 10		79.6 321 28.4 4240	_	1980 1990 1 1980
ANNUAL		Y MINIMUM		^a 1.8 1.9	Mar 10 Mar 28		b _{1.7}	Apr 13		. 8:	9 May	11 1981 10 1981
INSTANT ANNUAL 10 PERC 50 PERC		EDS EDS		25680 130 7.5 2.2			1790 6.6 76110 235 6.0 4.2	1		6970 C10.10 57670 141 16 3.2	Apr (30 1980 30 1980

e-Estimated. a-Also occurred Mar 11-12, 29-30. b-Also occurred Apr 14-19. c-From high-water mark.

06741510 BIG THOMPSON RIVER AT LOVELAND, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1979 to current year.

DATE		TIME	DIS CHARG INST CUBI FEE PEF SECC (0006	GE, SPI C. CII C. COI CT DUC R ANC DND (US)	FIC N- CT-	pH (STANI ARD UNITS	WAT S) (DEC	JRE CER G C)	OXYG DI; SOL (MG (003)	S- VED /L)	AS	SS FAL G/L S CO3)	CALCI DIS- SOLV (MG/ AS (IUM - /ED S /L (CA) /	MAGNI SIUN DIS- SOLVI (MG/I AS MO	M, SC - I ED SC L (G) I	DDIUN DIS- DLVEI MG/I AS NA	M, L3 O (L A) (ALKA- INITY LAB (MG/L AS CACO3)
OCT 15		1041	11		782	8.1	1	L1.5	8	.6		330	81		31			12	22
NOV 13		0947	5.	. 3	1380	8.1		6.0	10	. 3		620	150		59			19	∍7
DEC 10		1025	12	-	1830	8.3		4.5	11	. 0		890	190	1	100			17	77
JAN 13		1615	4.	. 5	1400	8.2		0.0	12	. 8		630	160		57			19	∍7
FEB 19		1028	4.	. 5	1410	8.2		3.5	12	. 4		640	160		58		58	19	9 0
MAR 11		1010	4.	. 8	1440	8.2		7.5	11	. 4		660	170		58			18	37
APR 08		1339	4.	. 3	1340	8.4		5.5	12	. 9		650	160		57			18	30
MAY 12		1459	390		85	8.0	1	11.5	9	. 1		32	9.	. 3	2.1	1		2	25
JUN 11		1003	1500		67	7.9	1	10.0	9	. 6		27	7.	. 6	1.8	8		2	21
JUL 24		1108	48		789	8.3	2	21.5	8	. 6		310	65		36		36	9	91
AUG 13		1039	30	:	1040	8.2	1	18.0	9	. 9		430	89		51			11	L1
SEP 08		1058	40		278	8.1	1	L7.0	8	. 5		110	28		9.7	7		5	50
I	DATE	D S (AS	LFATE IS- OLVED MG/L SO4) 0945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RI SC (M AS	DE, DIS- DLVED IG/L F)	BILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	RES AT DE I SO (N	GIDS, SIDUE 180 EG. C DIS- DLVED MG/L)	G NIT D SO (M AS	TRO- EN, RITE IS- LVED G/L N) 613)	G: NO2 D SO: (M: AS	TRO- EN, +NO3 IS- LVED G/L N)	NITRO GEN, AMMONI DIS- SOLVE (MG/I AS N)	, IA I - ED L)	PHOS- PHORUS DIS- SOLVE (MG/I AS P)	S ED S	PHOS- PHORUS ORTHO DIS- SOLVEI (MG/L AS P)	S D,
OCT 15										0	.03	0	.14	0.02	2	<0.01		<0.01	1
NOV 13											.01		.47	0.02		<0.01		<0.01	
DEC 10											.01		.35	0.04		<0.01		<0.01	
JAN 13											.01		.78	<0.02		<0.01		<0.01	
FEB		5	80	17		0.4	6.0		1080		.01		.61	<0.02		<0.01		<0.01	
MAR 11											.01		.59	<0.02		0.01		<0.01	
APR 08											.01		.64	0.02		<0.01		<0.01	
MAY 12																			
JUN 11										<0	.01	0	.09	<0.01	1	<0.01	_	<0.01	L
JUL 24		3	00	5.7		0.3	5.3		563	< 0	.01	0	.08	<0.01	1	<0.01	_	0.02	
AUG 13										0	.01	0	.15	0.03	3	<0.01	_	<0.01	L
SEP 08										<0	.01	0	.09	<0.01	1	<0.01	-	<0.01	L

$06741510\ BIG\ THOMPSON\ RIVER\ AT\ LOVELAND,\ CO--Continued$

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)
OCT 15			<1				<1	<1	180	<1
NOV 13			<1				<1	<1	160	<1
DEC 10							<1	<1	100	<1
JAN 13			<1				1	<1	90	<1
FEB 19 MAR	<5	<1	<1	<1	<1	<1	<1	<1	100	<1
11 APR			<1				1	1	100	<1
08 MAY							1	<1	70	<1
12 JUN			<1				2	2	800	1
11 JUL			<1				3	2	1500	1
24 AUG	<5	1	<1	<1	<1	<1	3	1	640	<1
13 SEP			<1				<1	<1	280	<1
08			<1				2	1	290	<1
DATI	LEAI DIS SOLV E (UG, AS I	S- REC VED ERA /L (UG PB) AS	E, MERCUAL TOTA OV- RECOBLE ERAF /L (UG, MN) AS F	AL MERCU DV- DIS BLE SOLV /L (UG, HG) AS H	S- DIS- /ED SOLV /L (UG/ HG) AS N	- DI /ED SOL /L (UG NI) AS	M, TOTA S- RECO VED ERAI /L (UG, SE) AS A	AL SILV OV- DI BLE SOL /L (UG AG) AS	S- DI VED SOL J/L (UG AG) AS	S- VED /L ZN)
ОСТ 15	DIS SOLV E (UG) AS 1	NES D, TOT S- REC VED ERA /L (UG PB) AS 49) (010	E, MERCU AL TOTA OV- RECO BLE ERAN /L (UG, MN) AS N 55) (7190	AL MERCU DV- DIS BLE SOLV /L (UG, HG) AS H	S- DIS- VED SOLV 'L (UG/ HG) AS 1 90) (0106	EL, NIU - DI /ED SOL /L (UG NI) AS	M, TOTE S- RECO VED ERAI /L (UG, SE) AS E 45) (010'	AL SILV OV- DI BLE SOL /L (UG AG) AS 77) (010	S- DI VED SOL J/L (UG AG) AS	S- VED /L ZN) 90)
OCT 15 NOV 13	DIS SOLV E (UG, AS 1	NES D, TOT S- REC VED ERA /L (UG PB) AS 49) (010	E, MERCI AL TOTA OV- RECC BLE ERAH /L (UG, MN) AS F 55) (7190	AL MERCU DV- DIS BLE SOLV 'L (UG, HG) AS F 00) (7189	S- DIS- /ED SOLV /L (UG/ HG) AS 1 90) (0106	EL, NIU DI FED SOL L UG SI) AS SS) (011	M, TOTE S- RECO VED ERAI /L (UG, SE) AS E 45) (010°	AL SILV OV- DI BLE SOL /L (UG AG) AS 77) (010	S- DI VED SOL J/L (UG AG) AS 175) (010	S- VED /L ZN) 90)
OCT 15 NOV 13 DEC 10	DIS SOLV E (UG, AS 1 (010	NES D, TOT S- REC VED ERA /L (UG PB) AS 49) (010	E, MERCU AL TOTI OV- RECC BLE ERAI /L (UG, MN) AS I 555) (7190	AL MERCU DV- DIS BLE SOLV /L (UG, /G) AS I 00) (7189	S- DIS- ZED SOLV (L (UG, IG) AS 1 90) (0106	EL, NIU - DI VED SOL VL (UG NI) AS 555) (011	M, TOTE S- RECC VED ERAI /L (UG SE) AS : 45) (010'	AL SILV OV- DI BLE SOL (/L (UG AG) AS 777) (010	S- DI NVED SOL S/L (UG AG) AS 175) (010	S- VED /L ZN) 90)
OCT 15 NOV 13 DEC 10 JAN 13	DIS SOLV E (UG, AS I (010	NES TOT S- REC VED ERA (UG PB) AS 449) (010	E, MERCI AL TOTI OV- RECC BLE ERAH /L (UG, MN) AS I 555) (7190	AL MERCI VV- DIE BLE SOLV (L (UG, HG) AS I 00) (7189	S- DIS- ZED SOLV (L (UG, IG) AS 1 90) (0106	EL, NIU - DI VED SOL (/L (UG NI) AS 555) (011	M, TOT; S- REC(VED ERAI /L (UG, SE) AS : 45) (010'	AL SILV OUV- DI BLE SOIL (/L (UG AG) AS 777) (010 <1 < 1 < <1 << 1 << 1 << 1 << 1 <<	S- DI VED SOL G/L (UG AG) AS (75) (010	S- VED //L ZN) 90)
OCT 15 NOV 13 DEC 10 JAN 13 FEB	DI: SOLY E (UG, AS) (010-	NES TOT TOT NES TOT TOT NES TO	E, MERCI AL TOTI OV- RECCI BLE ERAI /L (UG, MN) AS I 555) (7190	AL MERCI DIS SLE SOLV (L (UG, 1G) AS I 00) (7189	S- DIS- ZED SOLV (L (UG, IG) AS 1 90) (0106	EL, NIU DI JED SOL L (L UG NI AS S55) (011	M, TOT; S- REC(VED ERAI /L (UG, SE) AS; 45) (010'	AL SILV DI BLE SOIL (LG AG) AS (77) (010 <1 < <1 < <1 < <1 < <1 << <1 << <1 <<	SS- DI SOL SOL (UG AG) AS (010	S- VED /L ZN) 90)
OCT 15 NOV 13 DEC 10 JAN 13 FEB 19 MAR 11	DI: SOLT E (UG, AS 1 (010-	NES D, TOT TS - REC (VED ERA (19 AS 49) (010	E, MERCUAL TOTI ALL TOTI BLE ERAF (UG, MN) AS I 555) (7190	AL MERCU DIT SOLV- DIT SOLV- (IUG, AS I 000) (7189	S- DIS- VED SOLV (L (UG, IG) AS 1 00) (0106	EL, NIU - DI /ED SOL (/L (UG NI) AS 55) (011 1	M, TOT; S- REC(VVED ERAI /L (UG, SE) AS ; 45) (010'	AL SILV DV- DI BLE SOL (/L (UG AG) AS 777) (010 <1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1	SS- DI NVED SOL (VIG AG) AS (75) (010 0.2 - 0.2 - 0.2 - 0.2 -	S- VED /L ZN) 90)
OCT 15 NOV 13 DEC 10 JAN 13 FEB 19	DI: SOLT E (UG AS) (010-	NES TOT TOT S- REC (VED ERA (19 AS 49) (010	E, MERCI AL TOTI OV- RECCI BLE ERAH /L (UG, MN) AS I 555) (7190 0 <(AL MERCU DIT SOLV- DIT SOLV- (IUG, AS I 000) (7189	S- DIS- VED SOLV (L (UG, UG) AS 1 00) (0106	EL, NIU - DI /ED SOL (/L (UG NI) AS 55) (011 1	M, TOT; S- REC(VVED ERAI /L (UG, SE) AS ; 45) (010'	AL SILV DI	SS- DI SOLL (VED SOLL (VED AG) AS (775) (010	S- VED /L ZN) 90)
OCT 15 NOV 13 DEC 10 JAN 13 FEB 19 MAR 11 APR 08	DI: SOLT E (UG AS) (010-	NES TOT TOT NES TOT TOT NES TOT NES	E, MERCUAL TOTI ALL TO	AL MERCI DIS SILE SOLV (L (UG, 1G) AS 1 00) (7189	S- DIS- SOLV (L (UG, IG) AS 1 00) (0106	EL, NIU DI JED SOL (L (UG NI) AS 55) (011	M, TOT; S- REC(VED ERAI /L (UG, SE) AS ; 45) (010' 9 -	AL SILV DI	SS- DI SOLL (UG AG) AS (75) (010	S- VED //L ZN) 90) - - - - 3
OCT 15 NOV 13 DEC 10 JAN 13 FEB 19 MAR 11 APR 08 MAY 12 JUN 11 JUL	DI: SOLT (UG, AS) (010-	NES TOT TOTAL NESS TO TOTAL NESS TO TOTAL NESS TOTAL NE	E, MERCI AL TOTI AL TOTI OV- BLE ERAI /L (UG, MN) AS I 555) (7190	AL MERCI DIS SILE SOLUTION (1981) BLE SOLUTION (1981)	S- DIS- YED SOLV 'L (UG, HG) AS 1 00) (0106	EL, NIU DI /ED SOL /L (UG NI) AS 55) (011	M, TOT; S- REC(VED ERAI /L (UG, SE) AS i 45) (010'	AL SILV DI	SS- DI SOL SOL (UG AG) AS (775) (010	S- VED /L ZN) 90) - - - 3 - -
OCT 15 NOV 13 DEC 10 JAN 13 FEB 19 MAR 11 APR 08 MAY 12 JUN 11 JUL 24 AUG	DI: SOLT (UG, AS) (010-	NES TOT TOTAL NESS TOT	E, MERCI AL TOTI AL TOTI OV- BLE ERAI /L (UG, MN) AS I 555) (7190	AL MERCI DIS SILE SOLUTION (1981) BLE SOLUTION (1981) CONTROLL (1981) CONTROL (1981) CONTR	S- DIS- SOLV (L (UG, IG) AS 1 00) (0106	EL, NIU DI /ED SOL /L (UG NI) AS 55) (011	M, TOT; S- REC(VED ERAI /L (UG, SE) AS ; 45) (010' 9 -	AL SILV DI	SS- DI SOLL (VED	S- VED /L ZN) 90) - - - 3 - -
OCT 15 NOV 13 DEC 10 JAN 13 FEB 19 MAR 11 APR 08 MAY 12 JUN 11 JUL 24	E (UG AS 1 (010)	NES TOT TOT S- REC (UG PB) AS (49) (010	E, MERCI AL TOTI AL TOTI OV- BLE ERAI /L (UG, MN) AS I 555) (7190	AL MERCI DIS SILE SOLUTION (1981) BLE SOLUTION (1981)	S- DIS- YED SOLV 'L (UG, HG) AS 1 00) (0106	EL, NIU DI /ED SOL /L (UG NI) AS 55) (011	M, TOT; S- REC(VED ERAI /L (UG, SE) AS i 45) (010'	AL SILV DI	SS- DI SOL SOL (UG AG) AS (775) (010	S- VED /L ZN) 90) - - - 3 - - - 3

06742500 CARTER LAKE NEAR BERTHOUD, CO

LOCATION.--Lat 40°19'28", long 105°12'41", in SE¹/4 sec.10, T.4 N., R.70 W., Larimer County, Hydrologic Unit 10190006, in hoist house 293 ft from right abutment of Carter Lake Dam on Dry Creek, 7.0 mi west of Berthoud, and 8.9 mi upstream from mouth. Water-quality sampling site near center of reservoir.

RESERVOIR ELEVATIONS AND CONTENTS RECORDS

PERIOD OF RECORD .-- March 1954 to current year.

GAGE.--Nonrecording gage read at irregular intervals from 1 to 13 days. Datum of gage is 5,763.00 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 earth and rockfill dam and dikes enlarging the natural basin of Carter Lake. Storage began in February 1954. Usable capacity, 113,500 acre-ft between elevations 5,618.00 ft, trashrack sill at outlet, and 5,763.00 ft, maximum water surface, 6 ft below crest of dam. Dead storage, 3,306 acre-ft. Figures given represent usable contents. Water diverted from Colorado River basin through Alva B. Adams tunnel is pumped from Flatiron Reservoir into Carter Lake for supplemental irrigation supply to Little Thompson River and St. Vrain and Boulder Creek basins. Water above elevation 5,620 ft may be released for return to Flatiron Reservoir where pump turbines can operate in reverse to generate power and water can be used for irrigation in Big Thompson or Cache la Poudre River basins.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 109,100 acre-ft, Apr. 27-29, 1971, elevation, 5,759.12 ft; minimum observed since appreciable storage was attained, 960 acre-ft, Oct. 25, 1954, elevation, 5,621.40 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 108,600 acre-ft, May 1-3, elevation, 5,758.70 ft; minimum contents, 40,680 acre-ft, Oct. 27, elevation, 5,690.32 ft.

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

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	5,695.46 5,692.43 5,710.07 5,720.00	44,980 42,430 57,980 67,450	- -2,550 +15,550 +9,470
CAL YR 1996	-	-	-13,290
Jan. 31. Feb. 28. Mar. 31. Apr. 30. May 31. June 30. July 31. Aug. 31. Sept. 30.	5,734.59 5,749.04 5,755.90 5,758.32 5,755.51 5,756.85 5,738.45 5,728.64 5,714.60	82,230 97,730 105,400 108,100 105,000 106,500 86,290 76,090 62,240	+14,780 +15,500 +7,670 +2,700 -3,100 +1,500 -20,210 -10,200 -13,850
WTR YR 1997	-	_	+17,260

06742500 CARTER LAKE NEAR BERTHOUD, CO--Continued WATER-QUALITY RECORDS

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

REMARKS.--Samples were collected near surface and near bottom, near southeast end of reservoir.

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 10 10 10 10 10 10 10 10 10 10 10 10 10	1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021	0.1 5.0 10 15 20 25 30 40 50 60 70	70 70 70 70 70 70 70 70 68 65 65	8.0 8.0 8.0 8.0 8.0 7.9 7.8 7.6 7.2 7.1	15.0 15.0 15.0 15.0 14.5 14.5 14.5 14.0 13.0 12.0	8.4 8.4 8.3 8.3 8.2 7.8 6.2 4.5 3.6 2.8
28	1035 1036 1037 1038 1039 1040 1041 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052	0.1 5.0 10 15 20 25 30 40 50 60 70 80 90 100 110 120 130 140	58885888555555555555555555555555555555	8.5 8.5 8.5 8.5 8.5 7.9 7.9 7.8 7.7 7.7 7.6 7.6 7.6	13.5 13.5 13.5 13.5 13.5 13.0 8.0 6.5 6.5 6.0 5.5 5.5 5.5 5.0	8.7 8.6 8.6 8.6 9.1 9.0 9.0 8.9 8.8 8.6 8.6 8.5 8.5
19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19	1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047	0.1 5.0 10 15 20 25 30 40 50 60 70 80 90	68 68 69 69 661 55 55 55 55	8.1 8.2 8.1 8.2 7.9 7.7 7.6 7.5 7.4 7.3 7.3	20.0 20.0 20.0 20.0 20.0 17.0 7.0 6.5 6.5 6.5 6.0	7.4 7.3 7.3 7.3 7.5 7.7 7.3 7.1 6.9 6.8 6.7 6.5

06742500 CARTER LAKE NEAR BERTHOUD, CO--Continued

DATE	TIME	SAM- PLIN DEPT (FEE	C - C NG D TH A ET) (U	PE- IFIC ON- UCT- NCE S/CM)	pH (STA AR UNI (004	ND- D TS) (EMPER- ATURE WATER DEG C) 00010)	(SEC DIS (II	R- CY CHI K) N)	OXYGI DIS SOLV (MG,	S- VED /L)	0 . T	RM, CAL, 7 -MF LS./ ML)	NES TOT (MG AS	5/L 5 103)	CALC DIS SOL (MG AS	- VED /L CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
OCT 10 10	1025 1040	0.1 77		70 66	8. 7.		15.0 11.0	14		8.4			K6 		33 30	11 9.		1.3
MAY 28 28 AUG	1100 1115	0.1 140	L	58 55	8. 7.		13.5 5.0	11		8.5			<1		25 25	8.7.		1.2
19 19	1100 1115	0.1 100		68 56	8. 7.		20.0			7.4 6.2			K1 		29 23	9. 7.		1.2
DATE	D SO (A	DIUM, IS- LVED MG/L S NA) 0930)	SODIU AD- SORP- TION RATIO	S S((1) AS	DIS- DLVED MG/L S K)		Y SU D L S		RI DI SO (M AS	LVED G/L CL)	RII SOI (MC AS	E, S- LVED E/L F)	DIS SOI (MC AS	S- LVED S/L S D2)	RESI AT DEC DI SOI (MC	180 G. C IS- LVED G/L)	SUM CONS TUEN DI SOL (MG	OF TI- TS, S- VED
OCT 10 10		2.3	0. 0.		0.7	34 31		2.8		0.7		0.1		3.1 3.9		56 68		42 40
MAY 28 28 AUG		2.0	0. 0.		0.6	28 27		2.7		0.7		0.1		2.4		42 42		35 35
19 19		2.1 1.9	0. 0.		0.6	32 26		2.6 2.5		0.6		0.1		2.1 3.7		44 39		38 34
DATE	NI S C (GEN, TRITE DIS- OLVED MG/L S N) 0613)	DIS- SOLVE (MG/L AS N)	0 3 AMN 1 D SO (1) AS	DIS- DLVED MG/L S N)	MONIA ORGAN TOTA (MG/ AS N	IC PHO L TO L (1	HOS- ORUS OTAL MG/L S P)	PHO D SO (M AS	IS- LVED G/L P)	PHOFORT ORT DIS SOLV (MG/ AS I	THO, S- ZED L C)	PHY TO CHRO FLUO (UO	TTO- ANK- ON OMO OROM G/L)	PLE TO CHRO FLUO (UO	YTO- ANK- ON OMO OROM G/L)	ORGA DIS SOLV (MG AS	NIC =- ED =/L C)
OCT 10 10		<0.01 <0.01	<0.0		0.02	0<0		<0.01		0.01		0.01		0.9		0.1		. 2
MAY 28 28 AUG		<0.01 <0.01	<0.0 <0.0		0.01	<0 <0		<0.01 <0.01		0.01 0.01		0.01		0.3		0.1		- -
19 19		<0.01 <0.01	<0.0 0.1	5 « 3 «	<0.01 <0.01	<0 <0	.2	<0.01 <0.01		0.01	<(0.01		1.2		0.1		-
DATE	2		BARIUM DIS- SOLVED (UG/L AS BA (01005	, L1 D1 S0 (U		DIS SOLV (UG/ AS B	- I ED S	DMIUM DIS- OLVED UG/L S CD) 1025)	MI DI SO (U AS	LVED G/L CR)	DIS SOLV (UC AS	S- ZED S/L CO)	(UC	S- LVED S/L CU)	D: SOI (U(AS		(UG AS	S- VED /L PB)
OCT 10 10 MAY		1025 1040	27 23		<0.5 <0.5	5. 4.		<1 2		<5 <5		:3		L0 L0		<3 <3	<1 <1	
28 28 AUG		1100 1115	17 16		<0.5 <0.5	4. <4.		<1 <1		<5 <5		:3 :3		L0 L0	•	<3 4	<1 <1	
19 19		1100 1115	24 15		<0.5 <0.5	4. <4.		<1 1		<5 <5		3		L0 L0	•	<3 8	<1 <1	
	DATE	LITHI DIS SOLV (UG) AS I	N LUM T S- R /ED E /L (LI) A	ANGA- ESE, OTAL ECOV- RABLE UG/L S MN) 1055)	(UG AS	E, S- VED /L MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) 01060)	DIS SOL' (UG AS	- VED /L NI)	SILVE DIS SOLV (UG, AS A	S- VED /L AG)	DI SOI (UC AS	RON- IUM, IS- LVED S/L SR)		M, S- VED J/L V)	ZING DISOL' (UG AS	S- VED /L ZN)	
10))		<4 <4				<10 <10	<10 <10		<0		42			:6 :6	<3 <3		
28	B B		<4 <4	<10 <10			<10 <10	<10 <10		<0		3° 3°			:6 :6	<3 9		
))		<4 <4	<10 10			<10 <10	<10 <10		< 0		38			:6 :6	<3 3		

 $[\]ensuremath{\mathtt{K-Based}}$ on non-ideal colony count.

06746095 JOE WRIGHT CREEK ABOVE JOE WRIGHT RESERVOIR, CO

 $LOCATION.--Lat\ 40^{o}32'24'', long\ 105^{o}52'56'', in\ SE^{1}/4SE^{1}/4\ sec. 26,\ T.7\ N.,\ R.76\ W.,\ Larimer\ County,\ Hydrologic\ Unit\ 10190007,\ on\ left\ bank\ 150\ ft\ downstream\ from\ unnamed\ tributary\ and\ Colorado\ Highway\ 14\ culvert\ crossing,\ 1.5\ mi\ northeast\ of\ Cameron\ Pass,$ 1.5 mi southwest of Joe Wright Dam, and 8 mi east of Gould.

DRAINAGE AREA.--3.01 mi².

PERIOD OF RECORD.--October 1978 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 9,990 ft above sea level, from topographic map. Prior to Aug. 7, 1989, at datum 3.40 ft higher.

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

			DISCH	ARGE, CUBIC	FEET PER S		WATER YEA MEAN VAL		1996 TO SE	EPTEMBER 199	97	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	7.9 7.8 9.9 10 8.4	e3.7 e3.5 e3.4 e3.3 e3.2	e1.8 e1.7 e1.7 e1.6 e1.6	e1.4 e1.4 e1.4 e1.4	e1.0 e1.0 e1.0 e1.0 e1.0	e1.0 e1.0 e1.0 e1.0	e1.0 e1.0 e1.0 e1.0	e1.3 e1.3 e1.3 e1.4 e1.4	66 80 97 102 111	77 68 64 60 56	24 22 22 22 27	10 9.8 14 14
6 7 8 9 10	7.8 7.6 7.3 7.1 7.0	e3.1 e3.0 e2.8 e2.7 e2.6	e1.5 e1.5 e1.5 e1.5 e1.5	e1.4 e1.4 e1.4 e1.4	e1.0 e1.0 e1.0 e1.0 e1.0	e1.0 e1.0 e1.0 e1.0	e1.0 e1.0 e1.0 e1.0	e1.5 e1.8 e2.3 e2.8 e4.0	109 106 106 103 101	53 51 49 47 46	28 24 22 21 30	12 11 10 9.6 8.6
11 12 13 14 15	6.7 6.6 6.3 6.1 5.9	e2.5 e2.4 e2.4 e2.2 e2.2	e1.5 e1.5 e1.5 e1.5 e1.5	e1.3 e1.3 e1.3 e1.3	e1.0 e1.0 e1.0 e1.0 e1.0	e1.0 e1.0 e1.0 e1.0	e1.0 e1.0 e.98 e1.0 e1.0	e4.8 e4.8 e5.2 e8.0 e10	104 96 96 100 97	44 41 40 37 35	28 25 24 26 22	9.7 9.0 8.4 8.2 7.8
16 17 18 19 20	5.7 e5.8 e5.7 e5.6 e5.5	e2.1 e2.0 e2.0 e1.9 e1.9	e1.5 e1.5 e1.5 e1.4 e1.4	e1.2 e1.2 e1.2 e1.1 e1.1	e1.0 e1.0 e1.0 e1.0	e1.0 e1.0 e1.0 e1.0	e1.0 e1.0 e1.1 e1.1	e15 e20 25 25 28	92 94 102 99 69	34 33 33 32 32	20 19 19 18 16	7.8 7.4 13 31 40
21 22 23 24 25	e5.3 e5.2 e5.0 e4.8 e4.7	e1.8 e1.8 e1.8 e1.8	e1.4 e1.4 e1.4 e1.4	e1.1 e1.0 e1.0 e1.0	e1.0 e1.0 e1.0 e1.0	e1.0 e1.0 e1.0 e1.0	e1.1 e1.1 e1.1 e1.2	40 46 e45 e43 40	64 62 56 49 44	29 28 31 29 27	15 15 14 13	40 33 30 27 26
26 27 28 29 30 31	e4.5 e4.3 e4.2 e4.1 e3.9 e3.8	e1.8 e1.8 e1.8 e1.8 e1.8	e1.4 e1.4 e1.4 e1.4 e1.4	e1.0 e1.0 e1.0 e1.0 e1.0	e1.0 e1.0 e1.0	e1.0 e1.0 e1.0 e1.0 e1.0	e1.2 e1.2 e1.2 e1.2 e1.2	34 29 26 33 40 47	40 37 33 58 81	26 24 24 24 24 26	13 12 11 11 11	26 24 22 20 18
TOTAL MEAN MAX MIN AC-FT	190.5 6.15 10 3.8 378	70.9 2.36 3.7 1.8 141	46.1 1.49 1.8 1.4 91	37.3 1.20 1.4 1.0 74	28.0 1.00 1.0 1.0	31.0 1.00 1.0 1.0 61	31.88 1.06 1.2 .98 63	587.9 19.0 47 1.3 1170	2454 81.8 111 33 4870	1224 39.5 77 24 2430	597 19.3 30 10 1180	519.3 17.3 40 7.4 1030
								YEAR (WY)				
MEAN MAX (WY) MIN (WY)	2.49 6.15 1997 .54 1981	1.36 3.20 1991 .36 1979	.91 1.85 1996 .28 1981	.72 1.60 1996 .25 1981	.65 1.34 1996 .20 1979	.67 1.50 1994 .20 1979	1.09 3.39 1994 .39 1979	13.6 34.6 1994 3.58 1982	52.5 88.5 1988 25.5 1989	27.3 90.8 1995 6.75 1989	8.49 21.5 1995 1.88 1985	4.43 17.3 1997 1.06 1980
SUMMARY	STATISTI	CS	FOR 1	.996 CALENI	DAR YEAR	F	OR 1997 W	ATER YEAR		WATER YEA	ARS 1979	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT		EAN EAN AN MINIMUM EAK FLOW EAK STAGE		4246.8 11.6 133 e1.0 1.1	Jun 11 Apr 2 Mar 27		5817.8 15.9 111 e.9 1.0 135 b5.6 11540	Jun 5 8 Apr 13 Apr 7 Jun 19		9.53 16.9 5.40 150 a.20 .20 238 c5.60 6900	Jan Jan Jul	1995 1981 11 1995 30 1979 30 1979 7 1983 7 1983
10 PERC 50 PERC	CENT EXCEE CENT EXCEE CENT EXCEE	DS DS		32 3.3 1.2			46 2.8 1.0			30 1.5 .45		

e-Estimated.
a-Also occurred Jan 31 to Apr 4, 1979, and Feb 9 to Apr 9, 1981.
b-Maximum recorded gage height, 6.24 ft, May 24, backwater from ice.
c-Maximum gage height, 10.64 ft, May 15, 1993, present datum, backwater from ice.

06746110 JOE WRIGHT CREEK BELOW JOE WRIGHT RESERVOIR, CO

LOCATION.--Lat 40°33'43", long 105°51'48", in SE¹/4NE¹/4 sec.24, T.7 N., R.76 W., Larimer County, Hydrologic Unit 10190007, on left bank 500 ft downstream from unnamed tributary, 2,000 ft downstream from Joe Wright Dam, and 3 mi southwest of Chambers

DRAINAGE AREA.--6.90 mi².

PERIOD OF RECORD .-- June 1978 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 9,710 ft above sea level, from topographic map. Prior to Aug. 7, 1989, at datum 0.50 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Joe Wright Reservoir, 2000 ft upstream. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

			DISCHA	ARGE, CUBIC	FEET PER S		VATER YEA MEAN VAL	AR OCTOBER 1 LUES	996 TO SE	EPTEMBER 199	7	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.99 .92 1.1 1.1	e2.0 e2.0 e2.0 e2.0 e2.0	e2.0 e2.0 e2.0 e2.0 e2.0	e2.0 e2.0 e2.0 e2.0 e2.0	e2.0 e1.9 e1.9 e1.9 e1.9	e1.9 e1.9 e1.9 e1.9	e1.9 e1.9 e1.9 e1.9 e2.0	4.6 4.3 4.4 4.6 4.7	e180 e40 e24 e24 e24	117 116 102 86 85	36 36 33 25 23	62 63 68 73 77
6 7 8 9 10	.82 .79 .79 .79	e2.0 e2.0 e2.0 e2.0 e2.0	e2.0 e2.0 e2.0 e2.0 e2.0	e2.0 e2.0 e2.0 e2.0 e2.0	e1.9 e1.9 e1.9 e1.9 e1.9	e1.9 e1.9 e1.9 e1.9	e2.0 e2.1 e2.2 e2.2 e2.2	5.0 5.1 5.3 5.5 5.8	e23 e21 e20 e19 e19	85 80 61 51 64	31 38 37 30 29	71 68 68 64 62
11 12 13 14 15	.79 .79 .77 1.6 2.5	e2.0 e2.0 e2.0 e2.0 e2.0	e2.0 e2.0 e2.0 e2.0 e2.0	e2.0 e2.0 e2.0 e2.0 e2.0	e1.9 e1.9 e1.9 e1.9	e1.9 e1.9 e1.9 e1.9	e2.2 e2.2 e2.2 e2.2 e2.2	6.0 5.9 6.2 6.4 7.0	e19 e19 e19 e20 e120	58 58 57 58 52	36 42 41 37 36	62 62 62 65 70
16 17 18 19 20	31 57 36 .77 e.60	e2.0 e2.0 e2.0 e2.0 e2.0	e2.0 e2.0 e2.0 e2.0 e2.0	e2.0 e2.0 e2.0 e2.0 e2.0	e1.9 e1.9 e1.9 e1.9	e1.9 e1.9 e1.9 e1.9	e2.2 e2.2 e2.4 e2.7 e3.1	8.0 8.9 9.7 10	e160 e170 e130 105 121	49 45 36 41 43	32 28 22 16 14	65 62 64 75 100
21 22 23 24 25	e.60 e.60 e.70 e.70	e2.0 e2.0 e2.0 e2.0 e2.0	e2.0 e2.0 e2.0 e2.0 e2.0	e2.0 e2.0 e2.0 e2.0 e2.0	e1.9 e1.9 e1.9 e1.9	e1.9 e1.9 e1.9 e1.9	e3.4 e3.8 e4.0 e4.5 4.5	43 85 91 97 108	168 184 190 166 108	43 40 34 33 32	14 20 23 20 36	118 126 46 4.5 5.3
26 27 28 29 30 31	e.70 e.70 e.70 e.70 e2.0	e2.0 e2.0 e2.0 e2.0 e2.0	e2.0 e2.0 e2.0 e2.0 e2.0	e2.0 e2.0 e2.0 e2.0 e2.0 e2.0	e1.9 e1.9 e1.9	e1.9 e1.9 e1.9 e1.9 e1.9	4.6 4.6 4.6 4.6 	112 115 110 113 115 e130	94 84 68 88 118	32 32 32 32 32 32	79 79 73 63 63 62	5.6 5.7 5.5 5.6 5.6
MEAN MAX MIN AC-FT	150.80 4.86 57 .60 299	60.0 2.00 2.0 2.0 119	62.0 2.00 2.0 2.0 123	62.0 2.00 2.0 2.0 2.0 123	53.3 1.90 2.0 1.9 106	58.9 1.90 1.9 1.9 117	87.1 2.90 4.6 1.9 173	1247.4 40.2 130 4.3 2470	2545 84.8 190 19 5050	1721 55.5 117 32 3410	1154 37.2 79 14 2290	1690.8 56.4 126 4.5 3350
MEAN MAX (WY) MIN (WY)	4.34 20.8 1995 .54 1989	1.05 3.01 1982 .34 1995	.69 2.00 1997 .21 1993	.59 2.00 1997 .24 1993	.53 1.90 1997 .22 1995	.51 1.90 1997 .23 1995	.66 2.90 1997 .29 1991	11.6 40.2 1997 1.21 1980	63.6 100 1996 12.6 1980	39.0 90.8 1993 2.49 1989	31.0 84.7 1991 6.44 1981	29.7 61.8 1995 1.13 1991
SUMMAR	Y STATIST	ICS	FOR 1	996 CALENI	OAR YEAR	F	OR 1997 W	ATER YEAR		WATER YEA	RS 1979	9 - 1997
LOWEST HIGHES' LOWEST ANNUAL INSTAN' INSTAN' ANNUAL		EAN EAN AN MINIMUM EAK FLOW EAK STAGE AC-FT)		7224.52 19.7 189 e.43 .45	Jun 23 Feb 2 Jan 27		8892.3 24.4 190 e,a.6 .6 267 2.7 17640	Jun 23 50 Oct 20 64 Oct 20 Jul 10		15.3 24.4 3.69 245 b.17 .18 284 c2.71	Apr Mar Aug	1997 1980 1 1993 3 1991 31 1991 18 1991 18 1991
50 PER	CENT EXCER	EDS		1.4			2.0			1.0		

e-Estimated. a-Also occurred Oct 21-23. b-Also occurred Apr 4, 1991. c-Maximum gage height, 2.78 ft, Jul 10, 1997.

06751490 NORTH FORK CACHE LA POUDRE RIVER AT LIVERMORE, CO

 $LOCATION.--Lat\ 40^{o}47'15", long\ 105^{o}15'06", in\ SW^{1}/4SE^{1}/4\ sec. 32, T.10\ N., R.70\ W., Larimer\ County,\ Hydrologic\ Unit\ 10190007,\ on\ left\ bank\ 30\ ft\ downstream\ from\ bridge\ on\ Colorado\ State\ Highway\ 200,\ 2.0\ mi\ west\ of\ Livermore,\ and\ 2.9\ mi\ downstream\ from\ bridge\ on\ Colorado\ State\ Highway\ 200,\ 2.0\ mi\ west\ of\ Livermore,\ and\ 2.9\ mi\ downstream\ from\ bridge\ on\ Colorado\ State\ Highway\ 200,\ 2.0\ mi\ west\ of\ Livermore,\ 2.0\ mi\ downstream\ from\ bridge\ on\ Colorado\ State\ Highway\ 200,\ 2.0\ mi\ west\ of\ Livermore,\ 2.0\ mi\ downstream\ from\ bridge\ on\ Colorado\ State\ Highway\ 200,\ 2.0\ mi\ west\ of\ Livermore,\ 2.0\ mi\ downstream\ from\ bridge\ on\ Colorado\ State\ Highway\ 200,\ 2.0\ mi\ west\ of\ Livermore,\ 2.0\ mi\ downstream\ from\ bridge\ on\ Colorado\ State\ Highway\ 200,\ 2.0\ mi\ west\ of\ Livermore,\ 2.0\ mi\ downstream\ from\ bridge\ on\ Colorado\ State\ Highway\ 200,\ 2.0\ mi\ west\ of\ Livermore,\ 2.0\ mi\ downstream\ from\ bridge\ on\ Colorado\ State\ Highway\ 200,\ 2.0\ mi\ west\ of\ Livermore,\ 2.0\ mi\ downstream\ from\ bridge\ on\ Colorado\ State\ Highway\ 200,\ 2.0\ mi\ west\ of\ Livermore,\ 2.0\ mi\ downstream\ from\ bridge\ on\ Colorado\ State\ Highway\ 200,\ 2.0\ mi\ west\ of\ Livermore,\ 2.0\ mi\ downstream\ from\ bridge\ on\ Colorado\ State\ Highway\ 200,\ 2.0\ mi\ downstream\ from\ bridge\ on\ Colorado\ State\ Highway\ 200,\ 2.0\ mi\ downstream\ from\ bridge\ on\ Colorado\ State\ Highway\ 200,\ 2.0\ mi\ downstream\ from\ bridge\ 200,\ 20$ Stonewall Creek.

DRAINAGE AREA.--539 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1986 to current year. May 1929 to September 1931, May 1947 to September 1960, published as near Livermore; records are not considered equivalent.

GAGE.--Water-stage recorder. Elevation of gage is 5,715 ft above sea level, from topographic map.

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

			DISCH	IARGE, CUBI	C FEET PER		WATER YEAR MEAN VALU		1996 TO S	EPTEMBER 19	97	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	6.9 6.2 6.3 6.5 6.4	8.0 7.8 7.5 7.4 7.3	e7.3 e7.3 e7.3 e7.3 7.1	7.5 7.5 e7.5 e7.6 e7.7	e21 e23 23 e25 e26	e7.2 e6.0 e5.3 5.1 e5.1	7.1 7.7 7.4 8.2	70 69 78 84 85	e274 e319 e343 e329 e310	e46 e42 e38 e34 e31	27 24 22 20 21	28 27 24 24 21
6 7 8 9 10	5.7 5.7 5.4 5.3 5.5	7.3 6.4 6.0 6.6 6.5	6.9 e7.0 e7.0 6.8 7.1	e7.9 e7.8 7.6 7.2 e6.6	26 28 e29 e30 e31	4.9 4.7 4.6 4.6 4.6	9.8 9.3 9.4 9.3 8.1	82 81 73 70 70	e300 e357 e367 e397 e426	e28 e24 e20 e20 e18	53 57 50 46 52	17 16 15 14 13
11 12 13 14 15	5.6 5.7 5.7 5.7 5.7	6.3 6.2 5.9 6.1 e6.6	7.2 6.9 7.2 7.7 e7.8	e5.8 e5.3 e5.1 e5.0 e5.0	31 30 30 e31 32	6.3 7.4 7.8 7.5 7.5	8.4 8.1 9.3 10	69 77 82 e131 e158	e411 e344 e328 e338 e341	e14 e13 e11 e9.0 e8.9	52 52 60 62 55	12 11 13 25 15
16 17 18 19 20	5.9 6.5 6.7 6.7	e6.8 e7.0 7.6 9.4 10	e7.7 e7.7 e7.7 e7.7 e7.7	e5.0 e4.9 e6.0 e6.9 e8.1	29 29 30 e31 e31	e8.7 9.9 e9.6 9.0 7.8	11 11 14 16 16	e158 e158 e159 e201 e221	e315 e288 e279 e253 e230	e9.1 e8.1 e7.6 e8.6 e11	48 47 47 44 41	9.8 9.4 9.1 11 19
21 22 23 24 25	6.5 6.6 6.5 6.4 6.2	9.6 8.7 8.2 8.0 7.4	7.7 7.3 7.3 e7.4 7.4	e9.2 e9.2 e9.2 e9.2 e9.3	e30 e25 e21 e17 e14	7.9 e8.1 e9.8 9.3 8.4	16 17 17 29 53	e222 e223 e237 e226 e228	e223 e222 e184 e113 e91	e11 e11 e9.2 e9.6 e9.6	36 40 47 45 44	34 38 37 43 42
26 27 28 29 30 31	6.7 7.0 7.2 7.1 7.1 7.8	7.9 7.6 7.0 e7.3 e7.3	7.6 7.4 7.6 7.3 7.4 7.5	e9.8 e10 e10 e11 e15 e19	e11 e9.8 e8.5 	8.9 8.2 7.9 7.7 7.5 7.3	80 82 78 74 71	e262 e299 e298 e338 e265 e225	e80 e74 e64 e57 e51	e17 e18 e33 e102 e89 e36	44 35 29 42 36 27	42 38 35 34 33
TOTAL MEAN MAX MIN AC-FT	195.7 6.31 7.8 5.3 388	221.7 7.39 10 5.9 440	228.3 7.36 7.8 6.8 453	252.9 8.16 19 4.9 502	702.3 25.1 32 8.5 1390	224.6 7.25 9.9 4.6 445	719.1 24.0 82 7.1 1430	4999 161 338 69 9920	7708 257 426 51 15290	746.7 24.1 102 7.6 1480	1305 42.1 62 20 2590	709.3 23.6 43 9.1 1410
MEAN MAX (WY) MIN (WY)	9.63 17.8 1991 4.85 1989	10.2 14.7 1987 6.62 1988	7.90 11.6 1994 3.58 1988	8.60 27.6 1996 3.60 1988	12.8 48.2 1996 5.00 1995	- 1997, 17.3 55.5 1990 6.35 1995	50.1 244 1990 4.57 1995	132 365 1995 10.3 1989	221 857 1995 20.3 1987	32.3 133 1995 5.23 1989	18.6 52.5 1991 4.24 1988	10.8 23.6 1997 4.48 1987
SUMMARY	STATIST	ICS	FOR	1996 CALEN	IDAR YEAR	F	OR 1997 WAT	TER YEAR		WATER YE	ARS 1987	- 1997
				19224.0 52.5			18012.6 49.3			44.2 118 8.06		1995 1989
LOWEST ANNUAL INSTANT	TANEOUS P	AN Y MINIMUM		614 5.3 5.6	May 27 Oct 9 Oct 6		^e 426 ^a 4.6 4.8 530 ^C 9.76	Jun 10 Mar 8 Mar 4 Jul 28 Jul 28		1910 b _{2.6} 2.9 5430 17.53	Sep Sep Jun	30 1995 2 1988 1 1988 1 1991 1 1991
ANNUAL 10 PERC 50 PERC	RUNOFF (CENT EXCE CENT EXCE	AC-FT) EDS EDS		38130 152 16 6.5			35730 169 11 6.3	Jul 20		32060 86 10 4.9	oun	1 1//1

e-Estimated.

a-Also occurred Mar 9-10. b-Also occurred Sep 3, 1988 and Apr 27, 1989. c-From high-water mark.

06751490 NORTH FORK CACHE LA POUDRE RIVER AT LIVERMORE, CO--Continued WATER-QUALITY RECORDS

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

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

DATE	TIME	DIS CHARC INST CUBI FEI SECC (0006	GE, SPI F. CII F. COI F. DUG R ANG OND (US)	FIC N- CT-	pH (STAND- ARD UNITS) (00400)	WAT: (DEG	RE ER C)	OXYGE DIS SOLV (MG/	S- ZED L)	HARI NESS TOTA (MG, AS CACO	S AL /L O3)	CALCI DIS- SOLV (MG/ AS C	UM S ED SC L (MEA) AS	AGNE- SIUM, DIS- DLVED MG/L S MG)	SODIU DIS- SOLVI (MG, AS I	- ED /L S NA) PE	ODIUM RCENT
OCT 17	0944	6.	. 4	453	8.5		3.5	10.4	Į.	:	210	58	1	.6	15		13
NOV 14	1038	6 .	. 3	418	8.6		3.0	11.8	3	-	180	50	1	.4	15		15
DEC 11 JAN	1013	7.	. 6	374	8.6		2.5	11.6	5	:	170	47	1	.3	15		16
15 FEB	1225	5 5.	. 0	386	8.3		0.0	12.1	-		170	48	1	.2	15		16
19 MAR	1503	30		203	9.1		4.5	12.0)		85	25		5.5	7	. 0	15
11 APR	1510	6	. 5	387	8.8	1	0.0	12.6	5	-	160	45	1	.2	17		18
09 MAY	1116	9.	. 6	287	8.6		1.0	12.0)		120	34		9.0	12		17
13 JUN	1130	98		131	8.4	1	1.0	9.7	7		52	15		3.3	5	.5	18
11 JUL	1916	410		88	8.0	1	6.0	7.8	3		35	10		2.3	3	. 8	18
25 AUG	1122	9.	. 6	419	8.4	2	0.5	8.3	3	19	90	52	1	.4	13		13
13 SEP	1436	70		199	8.9	1	8.0	9.2	2		84	25		5.4	7	. 7	17
16	1050	11		357	8.4	1	3.5	8.5	5	-	160	46	1	.2	12		14
DAT	Έ	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	AS	TTY SUAB DE/L SE/L SE (CO3) AS	LFATE IS- OLVED MG/L SO4) 0945)	RI DI SO (M AS	LO- DE, S- LVED G/L CL) 940)	FLU RID DI SOL (MG AS	E, S- VED /L F)		S- LVED S/L S	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVEI (MG/L) (70300)	CON CON TUE I SO SC	IDS, 1 OF ISTI- ENTS, DIS- DLVED MG/L)	SOLIDS DIS- SOLVE (TONS PER AC-FT (70303	D ')
ОСТ 17		0.4	2.1	216		15	1	0	1	.1	15	5	268	3	262	0.3	6
NOV 14		0.5	1.5	193		17		9.9	1	. 2	12	2	230)	237	0.3	1
DEC 11		0.5	1.5	173		17	1	1	1	.0	10)	222	2	220	0.3	0
JAN 15		0.5	1.4	173		19	1	2	1	.0	12	2	232	2	225	0.3	2
FEB 19		0.3	1.2	87		11		3.8	0	. 9	11	L	122	2	118	0.1	.7
MAR 11		0.6	1.6	162		17	1	5	1	.1	8	3.0	216	5	215	0.2	19
APR 09		0.5	1.2	125		13		9.9	1	.0	10)	175	5	166	0.2	4
MAY 13		0.3	1.1	54		7.2		3.1	0	. 8	12	2	98	3	80	0.1	.3
JUN 11 JUL		0.3	0.8	39		3.0		1.3	0	.5	12	2	70)	58	0.0	9
25 AUG		0.4	1.9	201		15		7.1	1	. 1	13	3	251	-	237	0.3	4
13 SEP		0.4	1.1	93		5.5		3.4	0	. 9	15	5	135	5	120	0.1	.8
16		0.4	1.6	167		12		7.5	1	. 2	15	5	210)	207	0.2	9

06751490 NORTH FORK CACHE LA POUDRE RIVER AT LIVERMORE, CO--Continued

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

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	DIS	I, NI IIA G S- ORG VED TO 'L (M I) AS	TRO- EN, ANIC TAL G/L N) 605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NIT GE TOT (MG AS	N, PHO AL TO /L (N N) AS	HOS- DRUS DTAL MG/L S P) D665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 17	4.60	0.02	<0.05	0.0	12		<0.2	-	- <0	0.01	<0.01	<0.01
NOV 14	3.91	0.01	<0.05	<0.0	12		<0.2	-	- <0	0.01	0.01	<0.01
DEC 11	4.74	0.01	<0.05	<0.0	12		<0.2	-	- <0	0.01	<0.01	<0.01
JAN 15	3.16	<0.01	0.15	<0.0	12		<0.2	-	- <0	0.01	<0.01	<0.01
FEB 19	9.85	<0.01	0.10	<0.0	12		<0.2	-	- <0	0.01	<0.01	<0.01
MAR 11	3.81	<0.01	0.06	<0.0	0	.20	0.2	0.	26 <0	0.01	<0.01	<0.01
APR 09	4.54	<0.01	<0.05	<0.0	12		<0.2	-	- <0	0.01	<0.01	<0.01
MAY 13	25.8	<0.01	<0.05	<0.0	0	.57	0.6	0.	57 (0.04	<0.01	<0.01
11 JUL	77.7	<0.01	<0.05	<0.0	1 0	.39	0.4	0.	39 (0.09	<0.01	<0.01
25 AUG	6.51	<0.01	<0.05	<0.0	1 0	. 25	0.3	0.	25 <0	0.01	<0.01	0.01
13 SEP	25.5	<0.01	<0.05	<0.0	1 -	-			-		<0.01	0.01
16	6.18	<0.01	<0.05	<0.0	1 -	-	<0.2		<(0.01	<0.01	<0.01
DAT	BARI DIS SOLV E (UG AS (010	- DIS ED SOL /L (UG BA) AS	M, BC - D VED SC /L (U BE) AS	IS- LVED G/L B)	CADMIUM DIS- SOLVED (UG/L AS CD) 01025)	CHRO MIUM DIS- SOLV (UG/ AS C	I, COE DI VED SOL L CR) AS	S- VED G/L CO)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRO DI SOL (UG AS (010	S- D. VED SO: /L (U: FE) AS	AD, IS- LVED G/L PB) 049)
OCT 17	130	<	0.5 5	0	<1	<5	<	3	<10	17	<10	
NOV 14	110	<	0.5 4	0	<1	<5	<	3	<10	37	<10	
DEC 11	110	<	0.5 4	0	<1	<5	<	3	<10	25	<10	
JAN 15 FEB	110	<	0.5 4	0	2	<5	<	3	<10	7	<10	
19 MAR	54	<	0.5 2	0	<1	<5	<	3	<10	26	<10	
11	100	<	0.5 4	0	<1	<5	<	3	<10	35	<10	
APR 09 MAY	78	<	0.5 2	7.6	<1	<5	<	3	<10	48	10	
13 JUN	39	<	0.5 1	4.8	<1	<5	<	3	<10	88	<10	
11 JUL	26	<	0.5	4.3	<1	<5	<	3	<10	84	<10	
25 AUG	120	<	0.5 4	2.4	2	<5	<	3	<10	14	<10	
13 SEP	58	<	0.5 2	5.3	<1	<5		4	<10	89	<10	
16	110	<	0.5 4	0.2	<1	<5	<	3	<10	32	<10	

06751490 NORTH FORK CACHE LA POUDRE RIVER AT LIVERMORE, CO--Continued

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

DATE	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT							_	
17 NOV	15	16	10	<10	<1	370	<6	<3
14 DEC	14	11	<10	<10	<1	330	<6	<3
11 JAN	13	9	<10	<10	<1	310	<6	<3
15 FEB	13	7	<10	<10	<1	300	<6	<3
19	5	13	<10	<10	<1	130	<6	<3
MAR 11	14	23	<10	<10	<1	300	<6	4
APR 09	10	11	<10	<10	<1	220	<6	<3
MAY 13	5	11	<10	<10	<1	82	<6	<3
JUN 11	<4	9	<10	<10	<1	58	<6	<3
JUL 25	14	21	<10	<10	<1	330	<6	10
AUG 13	8	12	<10	<10	<1	140	<6	<3
SEP 16	13	34	<10	<10	<1	280	<6	5

SUSPENDED SEDIMENT DISCHARGE, WATER YEARS OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)		(T/DAY)
OCT 17	0924	6.4	30	0.51
NOV 14	1023	6.3	11	0.18
DEC 11	0952	7.9	8	0.17
JAN 15	1203	5.0	15	0.21
FEB 19	1446	30	5	0.44
MAR 11	1446	6.5	2	0.03
APR 09	1058	9.6	5	0.12
MAY 13	1040	98	50	13
JUN 11	1900	410	39	44
JUL				
25 AUG	1103	9.6	7	0.18
13 SEP	1422	70	17	3.2
16	1040	11	10	0.30

06752000 CACHE LA POUDRE RIVER AT MOUTH OF CANYON, NEAR FORT COLLINS, CO

LOCATION.--Lat 40°39'52", long 105°13'26", in NW¹/4 sec.15, T.8 N., R.70 W., Larimer County, Hydrologic Unit 10190007, on left bank at mouth of canyon, 0.5 mi downstream from headgate of Poudre Valley Canal, 1.2 mi upstream from Lewstone Creek, and 9.3 mi northwest of courthouse in Fort Collins.

DRAINAGE AREA.--1,056 mi².

PERIOD OF RECORD.--Streamflow records, June to August 1881, May to July 1883, October 1883 to current year. Monthly discharge only for some periods, published in WSP 1310. Records for March 23 to April 30 and July 4 to August 20, 1883, published in WSP 9, have been found to be unreliable and should not be used. Prior to 1902, published as Cache la Poudre Creek or River at or near Fort Collins. Water-quality data available, June 1962 to October 1965, October 1971 to September 1982, and April 1993 to

REVISED RECORDS.--WSP 1310: 1885-87, 1889, 1892, 1894-96, 1934. WSP 1730: 1960, drainage area. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,220 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Natural flow of stream affected by transbasin and transmountain diversions (see elsewhere in this report), diversions upstream from station for irrigation of about 50,000 acres, most of which is downstream from station, 80,210 acre-ft diverted during current year, and diversions for municipal use, 12,760 acre-ft diverted during current year.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey. DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES

DAY OCT NOV DEC JAN FEB AUG SEP e48 e29 e28 e27 e31 e48 e16 e47 e28 e40 e20 e16 e20 e17 e29 e18 e33 e20 e56 e19 e27 e54 e23 e38 e62 e58 e49 e25 e56 e45 e32 e48 e40 e34 e41 e45 e36 e42 e49 e26 e60 e28 e23 e62 e35 e17 e40 e32 e10 e35 e32 e37 e30 2.3 e58 e19 e52 e29 e50 e27 e53 e25 e43 e23 2.8 e46 e25 e21 e44 e47 e24 ___ e51e28 TOTAL 1210 4 MEAN 73.5 53.0 39.0 56.3 94.0 35.5 44.4 MIN 8.4 AC-FT STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1881 1997, YEAR (WY) BY WATER 60 7 44 4 40 3 42 8 53 0 MEAN 90 4 MAX (WY) MTN 21 7 8 14 12 6 9 00 10 2 10 6 19 5 61 2 37 3 (WY) FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1881 SUMMARY STATISTICS ANNUAL TOTAL 135157.4 144301.4 ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN Jun 16 Jun Jun 16 e_{8.4} e_{8.4} a 1.6 LOWEST DATLY MEAN Nov 20 1948 Dec 18 Dec 18 ANNUAL SEVEN-DAY MINIMUM Dec Nov b₂₁₀₀₀ INSTANTANEOUS PEAK FLOW 9 1891 Jun INSTANTANEOUS PEAK STAGE 6.03 Jun ANNUAL RUNOFF 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS PERCENT EXCEEDS

e-Estimated.

a-Also occurred Nov 28, 1948, caused by diversion of Poudre Valley Canal, 0.5 mi upstream. b-Maximum discharge determined, caused by failure of Chambers Lake Dam, from reports of State Engineers Office. A greater discharge, but not determined, occurred May 20, 1904.

06752258 CACHE LA POUDRE RIVER AT SHIELDS STREET, AT FORT COLLINS, CO WATER-QUALITY RECORDS

 $LOCATION.\text{--Lat } 40^{o}36'11'', long \ 105^{o}05'43'', in \ NE^{1/4}SE^{1/4} \ sec. 3, T.7 \ N., R. 69 \ W., Larimer County, Hydrologic Unit 10190007, at Shields Street bridge, 0.8 mi downstream from Larimer-Weld Canal, and 1.0 mi northwest of Fort Collins.$

PERIOD OF RECORD.--October 1979 to current year.

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

	WAILI	V-QUAL	11 1 L	AIA, V	VAILK	ILA	IK OC	TOBEI	X 1990	3103	EFIEN	IDEK I	.771					
TIME	INST. CUBIC FEET PER SECOND	CIF CON DUC ANC (US/	IC I- IT- IE ICM)	(STAI ARI UNI:	ND- O IS) (ATU WAT DEG	RE ER C)	DI SOL (MG	S- VED /L)	NES TOT (MC AS CAC	SS CAL E/L S CO3)	DIS- SOLV (MG,	- VED /L CA)	SIT DIS SOLV (MG, AS N	JM, S- VED /L MG)	DIS SOLV (MG AS	- ED /L NA)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)
1406	51		209	8.	5	1	2.0	8.	9		88	25		6	. 1	_	_	79
0952	67		229	8.3	3		3.0	11.	5		99	29		6	. 5	_	-	83
1314	65		204	8.	7		3.5	11.	8		90	26		6	.1	_	-	72
1342	47		318	8.2	2		0.0	12.	8		140	40		9.	. 2	7	. 5	108
0827	29		307	8.3	3		3.0	11.	7		140	40		8	. 7	_	-	99
0914	42		250	8.4	4		7.0	10.	3		110	32		7.	. 2	_	-	89
1424	4.4		357	8.	7		3.0	12.	0		160	46		12		_	-	141
1350	316		71	8.2	2	1	1.5	10.	1		29	8	. 9	1	. 7	_	-	30
1428	256		56	8.3	1	1	9.0	8.	0		23	6	.6	1	. 5	1	. 8	24
0905	558		98	8.2	2	1	5.0	7.	9		42	12		2	. 8	_	-	39
1051 1440	72 118		79 110								32 47							31 42
DIS- SOLV (MG/ AS SO	TE R D ED S L (1	IDE, IS- OLVED MG/L S CL)	RII D SOI (M	DE, IS- LVED G/L F)	DIS- SOLV (MG/ AS SIO2	ED L	RES AT DE D SO (M	IDUE 180 G. C IS- LVED IG/L)	G NIT D SO (M AS	EN, RITE IS- LVED G/L N)	GI NO2- DI SOI (MO	EN, +NO3 IS- LVED G/L N)	GEI AMMOI DI SOLI (MG AS	N, NIA S- VED /L N)	PHON SOI (MO AS	RUS IS- LVED G/L P)	PHOI OR' DIS SOL' (MG AS	THO, S- VED /L
										n n2	Λ	1.0	-0	N 2	-0	0.1	-0	0.1
49					11		1											
							_											.01
																		.01
																		.01
																		.01
	TIME (1406 0952 1314 1342 0827 0914 1424 1350 1428 0905 1051 1440 SULFA DIS- SOLV (MG/ AS SOO (0094	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) 1406 51 0952 67 1314 65 1342 47 0827 29 0914 42 1424 4.4 1350 316 1428 256 0905 558 1051 72 1440 118 SULFATE R: DIS-SOLVED SI (MG/L AS SO4) A: (00945) (010945) (010945) (010945)	DIS- CHARGE, SPE INST. CID CUBIC CON FEET DUC SECOND (US/ (00061) (0000) 1406 51 0952 67 1314 65 1342 47 0827 29 0914 42 1424 4.4 1350 316 1428 256 0905 558 1051 72 1440 118 CHLO- SULFATE RIDE, DIS- SOLVED SOLVED (MG/L AS SO4) AS CL) (00945) (00940) 49 3.7	DIS- CHARGE, SPE- INST. CIFIC CUBIC CON- FEET DUCT- PER ANCE SECOND (US/CM) (00061) (00095) 1406 51 209 0952 67 229 1314 65 204 1342 47 318 0827 29 307 0914 42 250 1424 4.4 357 1350 316 71 1428 256 56 0905 558 98 1051 72 79 1440 118 110 SULFATE RIDE, DIS- SOLVED SOLVED DO (MG/L (MG/L AS SO4) AS CL) AS (00945) (00940) (00 49 3.7 49 3.7	DIS- CHARGE, SPE- INST. CIFIC CUBIC CON- FEET DUCT- (STAI PER ANCE ARI SECOND (US/CM) UNIT (00061) (00095) (0040 1406 51 209 8.9 0952 67 229 8.9 1314 65 204 8.7 1342 47 318 8.9 0827 29 307 8.9 0914 42 250 8.7 1350 316 71 8.9 1424 4.4 357 8.7 1350 316 71 8.9 1428 256 56 8.9 1051 72 79 8.9 1440 118 110 8.7 CHLO- SULFATE RIDE, DIS- SOLVED SOLVED DIS- SOLVED SOLVED SOLVED (MG/L AS SO4) AS CL) AS F) (00945) (00940) (00950) 49 3.7 0.3 49 3.7 0.3	DIS- CHARGE, SPE- INST. CIFIC CUBIC CON- FEET DUCT- (STAND- ANCE ARD SECOND (US/CM) UNITS) ((00061) (00095) (00400) (1406 51 209 8.5 0952 67 229 8.3 1314 65 204 8.7 1342 47 318 8.2 0827 29 307 8.3 0914 42 250 8.4 1424 4.4 357 8.7 1350 316 71 8.2 1428 256 56 8.1 0905 558 98 8.2 1051 72 79 8.2 1440 118 110 8.4 CHLO- SULFATE RIDE, RIDE, DIS- SOLVED SOLVED SOLVED (MG/L (MG/L (MG/L AS AS SO4) AS CL) AS F) SIO2 (00945) (00940) (00950) (00950)	DIS- CHARGE, SPE- INST. CIFIC CUBIC CON- FEET DUCT- (STAND- SECOND (US/CM) UNITS) (DEG (00061) (00095) (00400) (000 1406 51 209 8.5 1 0952 67 229 8.3 1314 65 204 8.7 1342 47 318 8.2 0827 29 307 8.3 0914 42 250 8.4 1424 4.4 357 8.7 1350 316 71 8.2 1 1428 256 56 8.1 1 0905 558 98 8.2 1 1051 72 79 8.2 1 1440 118 110 8.4 1 CHLO- SULFATE RIDE, DIS- DIS- DIS- SOLVED SOLVED SOLVED (MG/L MG/L (MG/L MG/L AS SO4) AS CL) AS F) SIO2) (00945) (00940) (00950) (00955)	DIS- CHARGE, SPE- INST. CIFIC CUBIC CON- FEET DUCT- (STAND- SECOND (US/CM) UNITS) (DEG C) (00061) (00095) (00400) (00010) 1406 51 209 8.5 12.0 0952 67 229 8.3 3.0 1314 65 204 8.7 3.5 1342 47 318 8.2 0.0 0827 29 307 8.3 3.0 0914 42 250 8.4 7.0 1424 4.4 357 8.7 3.0 1350 316 71 8.2 11.5 1428 256 56 8.1 19.0 0905 558 98 8.2 15.0 1051 72 79 8.2 13.5 1440 118 110 8.4 14.5 CHLO- SULFATE RIDE, DIS- SOLVED SOLVED SOLVED (MG/L DIS- SOLVED SOLVED SOLVED SOLVED SOLVED SOLVED DIS- SOLVED S	CHARGE, SPE- INST. CIFIC CUBIC CON- PEET DUCT- (STAND- ATURE DI SECOND (US/CM) UNITS) (DEG C) (MG (00061) (00095) (00400) (00010) (003 1406 51 209 8.5 12.0 8. 0952 67 229 8.3 3.0 11. 1314 65 204 8.7 3.5 11. 1342 47 318 8.2 0.0 12. 0827 29 307 8.3 3.0 11. 1344 42 250 8.4 7.0 10. 1424 4.4 357 8.7 3.0 12. 1350 316 71 8.2 11.5 10. 1428 256 56 8.1 19.0 8. 0905 558 98 8.2 15.0 7. 1051 72 79 8.2 13.5 9. 1440 118 110 8.4 14.5 8. CHLO- SULFATE RIDE, DIS- DIS- DIS- DIS- DIS- OIS- OIS- OIS- OIS- OIS- OIMO/L (MG/L AS SOLVED MG/L) AS SO4) AS CL) AS F) SIO2) (MG/L) (MG/L (MG/L (MG/L AS SOLVED MG/L) AS SO4) AS CL) AS F) SIO2) (MG/L) (00945) (00940) (00950) (00955) (70300)	DIS-	DIS- CHARGE, SPE- INST. CIFIC CUBIC COON- PH TEMPER- DIS- DIS- CUBIC COON- PH TEMPER- DIS- CIFIC CUBIC COON- STAND- ATURE DIS- CIFIC COON- C	DISTINST. CIFIC CONTENT PROPERTION CONTENT CIFIC CONTENT PROPERTION P	DIS- CHARGE SPE- INST CIFIC CUBIC CON- PH TEMPER OXYGEN TOTAL SOLVED AS (MG/L SOLVED AS CALC	CHARCE SPE	DIS- CHARGE, SPE- INST. CIFIC CON- DH TEMPER- OXYGEN, TOTAL DIS- DIS- FEET DUCT- (STAND- ATURE DIS- (MG/L SOLVED S	DIS- CHARGE, SPE- INST. CIFIC DH TEMPER OXYGEN, TOTAL DIS- FEET DUCT STAND ATURE DIS- (MG/L SOLVED SOLVE	DISTRIBUTE CHARGE SPETINST. CIFIC CUN- CIFIC CON- CON- CON- CON- CON- CON- CON- CON-	The color of the

0.6

24... AUG 14... SEP

03...

0.1

6.5

42

<0.01

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0.03

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<0.01

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<0.01

06752258 CACHE LA POUDRE RIVER AT SHIELDS STREET, AT FORT COLLINS, CO--Continued

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

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	CADMI DIS SOLV (UG/ AS C	- DIS ED SOL L (UG D) AS	M, COP - DI VED SO /L (U CR) AS	PER, S- LVED G/L CU) 040)	IRON, TOTAL RECOV ERABL (UG/L AS FE (01045	E SOLVED (UG/L) AS PB)
OCT 16				_	_	<1	80	
NOV 15				-	_	<1	70	
DEC 11				_	_	<1	50	
JAN 14	<5.0	<1	<1	. <	1	<1	70	<1
FEB 20				_	_	<1	70	
MAR 12				_		<1	80	
APR 09				_		<1	120	
MAY 13				_		3	240	
JUL 24	20.5	<1	<1	<	1	1	200	<1
AUG 14				_		1	220	
SEP 03				_	_	2	180	
16				-	-	2	160	
D# OCT	NE TO RE ER ATE (U AS	COV- I ABLE SO G/L (U MN) AS	RCURY DIS- DLVED JG/L S HG) 1890)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SOI (UC AS	IS- LVED G/L AG)	ZINC, DIS- SOLVED (UG/L AS ZN) 01090)
16 NOV						<(0.2	
15 DEC						<(0.2	
11 JAN	•					<(0.2	
14 FEB		20	<0.1	<1	<1	<(0.2	3
20 MAR	•					<(0.2	
12 APR						<(0.2	
09 MAY						<(0.2	
13 JUL						<(0.2	
24 AUG		20	<0.1	<1	<1	<(0.2	<3
14 SEP	•					<(0.2	
03 16							0.2	

06752260 CACHE LA POUDRE RIVER AT FORT COLLINS, CO

 $LOCATION. --Lat\ 40^{o}35'21'', long\ 105^{o}04'09'', in\ SE^{_{1}}\!/_{4}NW^{_{1}}\!/_{4}\ sec. 12,\ T.7\ N.,\ R. 69\ W.,\ Larimer\ County,\ Hydrologic\ Unit\ 10190007,\ on\ N. \ An interval of the county of the$ left bank 100 ft (revised) upstream from Lincoln Street Bridge in Fort Collins.

DRAINAGE AREA.--1,127 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1975 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 Nov. 10, 1988 at site 4,300 ft upstream, at different datum. Prior to May 22, 1987, at site 300 ft downstream, at different datum. May 22, 1987 to Oct. 16, 1996, at site 100 ft upstream, at same datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, power developments, diversion for municipal supply, diversions upstream from station for irrigation, and return flow from irrigated areas.

	8 ,		DISCH	ARGE, CUBIC	C FEET PER S		WATER YEAR MEAN VALU		R 1996 TO SI	EPTEMBER 19) 97	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	40 36 30 35 83	25 31 53 54 54	32 30 26 23 23	46 45 43 39 29	30 30 28 23 22	34 40 40 42 33	20 11 9.9 8.7 8.8	102 12 31 30 94	944 1600 2280 2050 2190	255 207 200 230 218	53 33 177 284 234	228 314 203 184 293
6 7 8 9 10	50 33 20 27 38	50 39 27 38 59	33 46 46 54 59	22 23 33 46 45	24 23 21 23 26	35 39 41 38 43	7.1 6.0 5.9 6.2 7.0	140 155 114 227 304	2210 2560 2510 2790 2360	153 241 231 186 87	633 212 175 240 529	274 119 189 231 242
11 12 13 14 15	39 35 33 31 37	54 50 58 73 69	56 46 44 42 29	e37 e34 e35 e43 e52	32 36 36 33 29	42 47 47 48 39	5.1 3.9 3.9 4.2 6.1	321 338 314 358 332	2260 2140 1970 1980 2010	82 102 93 106 44	600 557 580 558 586	191 176 142 75 65
16 17 18 19 20	48 46 20 15 26	70 44 45 81 58	24 20 18 19 23	e55 40 32 34 32	35 35 37 33 41	38 52 54 46 49	7.5 6.6 5.8 5.0 9.2	384 513 514 398 513	1670 1700 1790 2140 2480	32 86 178 173 166	485 561 555 401 267	80 105 99 162 320
21 22 23 24 25	26 18 11 25 26	47 44 51 54 42	32 55 51 46 45	30 24 22 17 15	51 53 81 79 91	51 49 49 49 45	39 51 44 83 48	548 659 806 558 359	2590 2410 1970 1610 1070	156 147 135 201 136	207 162 211 130 45	404 330 315 268 221
26 27 28 29 30 31	37 37 34 42 47 37	44 45 32 27 32	47 44 46 45 45	14 17 24 22 24 27	107 50 36 	35 48 41 26 33 27	12 11 8.1 11 102	234 202 193 217 353 441	719 524 382 366 269	111 110 712 846 284 321	60 77 69 83 276 287	201 203 209 189 192
TOTAL MEAN MAX MIN AC-FT	1062 34.3 83 11 2110	1450 48.3 81 25 2880	1199 38.7 59 18 2380	1001 32.3 55 14 1990	1145 40.9 107 21 2270	1300 41.9 54 26 2580	557.0 18.6 102 3.9 1100	9764 315 806 12 19370	53544 1785 2790 269 106200	6229 201 846 32 12360	9327 301 633 33 18500	6224 207 404 65 12350
							BY WATER					
MEAN MAX (WY) MIN (WY)	20.5 94.1 1985 2.45 1978	22.3 122 1985 1.79 1978	20.5 97.3 1985 1.91 1978	27.4 123 1984 2.29 1978	29.7 135 1984 1.30 1987	33.2 136 1980 1.91 1988	103 652 1983 .37 1988	436 2720 1980 14.9 1976	979 4771 1983 158 1989	256 1450 1983 39.2 1988	72.6 301 1997 12.8 1988	35.0 207 1997 4.79 1987
SUMMARY	STATISTI	CS	FOR 3	1996 CALEN	DAR YEAR	F	OR 1997 WA	TER YEAR		WATER YE	EARS 1975	- 1997
LOWEST .	MEAN ANNUAL M ANNUAL ME DAILY ME	AN AN		68678.2 188 2080	Jun 16		92802.0 254 2790	Jun 9		172 779 41.8 6080	Jun	1983 1977 21 1983
	DAILY MEA SEVEN-DAY			4.9 19	Apr 19 Sep 17		^a 3.9 5.2	Apr 12 Apr 8		b.00) Aug) Mar	18 1987 24 1988
	ANEOUS PE ANEOUS PE						3290 7.22	Jun 9 Jun 9		^C 6660 ^d 8.31	Jun .	21 1983 21 1983
ANNUAL 1 10 PERC 50 PERC	ANEOUS PE RUNOFF (A ENT EXCEE ENT EXCEE ENT EXCEE	C-FT) DS DS		136200 559 60 26			184100 558 50 20	oun 9		124700 362 22 2.8	. Juil	<u> </u>

e-Estimated.

e-BEINATEG.
a-Also occurred Apr 13.
b-Also occurred Aug 19, Sep 4, 18-19, 1987, and many days in 1988.
c-Site and datum then in use.
d-Maximum gage height, 9.15 ft, Jun 2, 1991, present site and datum.

06752260 CACHE LA POUDRE RIVER AT FORT COLLINS, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1975 to current year.

PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: October 1987 to current year.

pH: October 1987 to current year.
WATER TEMPERATURE: October 1987 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1987.

REMARKS.--Specific conductance record rated good, except Oct. 16-29, which are fair. pH record rated fair. Temperature record rated

EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 1,020 microsiemens, April 10; minimum, 34 microsiemens, June 21.

pH: Maximum, 9.0 pH units, Aug. 29; minimum, 7.1 pH units, May 23. WATER TEMPERATURE: Maximum, 22.4°C Aug. 2; minimum 0.2°C Mar. 15.

DATE	TIME	DIS CHARC INST CUBI FER PER SECC (0006	GE, SPI F. CIH IC CON ET DUG R ANG	FIC N- CT-	pH (STAND- ARD UNITS) (00400)	WAT (DEG	RE ER C)	OXYGI DIS SOLV (MG,	EN, S- VED /L)	HARD NESS TOTA (MG/ AS CACO	L L 3)	CALCI DIS- SOLV (MG/ AS C	UM ED S L (A) A	AGNE- SIUM, DIS- OLVED MG/L S MG) 0925)	SODIUM DIS- SOLVE: (MG/MAS N. (0093	D L A)	ALKA- LINITY LAB (MG/L AS CACO3)
OCT 16	0923	42		224	8.1	1	1.0	9.2	2		95	27		6.6			87
NOV 14	1420	71		235	8.4		4.0	11.3	3	1	00	30		6.8			85
DEC 12 JAN	1033	44		249	8.5		1.5	12.	1	1	10	31		7.4			84
16 FEB	1220	58		259	8.2		0.0	13.3	3	1	00	30		7.0	6.	9	88
21	1056	47		240	8.3		1.0	12.6	5	1	10	31		7.3			84
MAR 13	0921	44		262	8.4		6.0	12.	1	1	10	33		7.7			90
APR 11 MAY	1047	5	. 2	474	8.3		4.5	13.8	3	1	90	52		14			151
15	1047	315		90	8.2		9.5	10.3	3		37	11		2.3			36
13 JUL	0859	2140		44	7.8	1	0.5	9.	7		18	5.	2	1.2			18
17 AUG	1238	22		165	8.2	1	7.0	8.7	7		68	19		4.9	5.	8	60
15 SEP	0757	575		98	8.1	1	5.0	8.3	3		42	12		2.8			38
04	0941	179		100	8.0	1	4.5	9.	7		42	12		2.7			37
DA	ATE A	ULFATE DIS- SOLVED (MG/L S SO4) 00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)		DE, D S- S LVED (G/L F) S	LICA, IS- OLVED MG/L AS IO2)	RES AT DE D SO (M	IDS, IDUE 180 G. C IS- LVED G/L) 300)	NITE GEN NITRI DIS SOLV (MG/ AS N	1, ITE S- /ED /L 1)	NITH GEI NO2+I DIS SOLV (MG, AS I	N, NO3 S- VED /L N)	NITRO GEN, AMMONI DIS- SOLVE (MG/L AS N) (00608	PH A PHO I D SO (N AS	ORUS DIS- DLVED MG/L S P)	PHOS PHORU ORTH DIS- SOLVI (MG/I AS P)	JS HO, - ED :
OCT 16				_	_				0.0	12	0.0	08	<0.02	<(0.01	<0.0	01
NOV 14				_					0.0		0.2		0.03		0.01	<0.0	
DEC 12				_					0.0		<0.0	01	<0.02		0.01	<0.0	
JAN 16		32	3.6	0	0.3	11		158	<0.0)1	0.2	22	<0.02	<(0.01	<0.0	01
FEB 21				_	-				<0.0)1	0.3	15	<0.02	<(0.01	<0.0	01
MAR 13				_	-				<0.0)1	0.0	07	<0.02	<(0.01	<0.0	01
APR 11	•			-					<0.0)1	0.	70	0.05	<(0.01	<0.0	01
MAY 15	•			-					<0.0)1	0.0	01	<0.01	<(0.01	<0.0	01
JUN 13				_	-				<0.0)1	0.0	03	<0.01	(0.02	<0.0)1
JUL 17		15	3.2		0.2	6.7		101	<0.0)1	0.3	13	<0.01	<(0.01	<0.0	01
AUG 15				-	-									-			
SEP 04				-					<0.0)1	0.0	08	<0.01	<(0.01	<0.0)1

06752260 CACHE LA POUDRE RIVER AT FORT COLLINS, CO--Continued

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

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)
OCT							
16 NOV					<1	100	
14					<1	80	
DEC 12					<1	60	
JAN		_					
16 FEB	<5	<1	<1	<1	<1	70	<1
21					<1	70	
MAR 13					<1	90	
APR							
11 MAY					<1	190	
15					3	360	
JUN 13					<1	580	
JUL							
17 AUG	11.2	<1	<1	<1	1	170	<1
15					1	240	
SEP 04					2	190	
					-	270	

DATE			NICKEL, DIS- SOLVED (UG/L AS NI) (01065)			DIS- SOLVED (UG/L
OCT						
16 NOV					<0.2	
14					<0.2	
DEC 12					<0.2	
JAN					10.2	
16	10	<0.1	<1	<1	<0.2	<3
FEB 21					<0.2	
MAR 13					<0.2	
APR					VO.2	
11					<0.2	
MAY 15					<0.2	
JUN						
13 JUL					<0.2	
17	20	<0.1	<1	<1	<0.2	4
AUG 15					<0.2	
SEP					~U.Z	
04					<0.2	

MANGA-

06752260 CACHE LA POUDRE RIVER AT FORT COLLINS, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	280	205	240	268	217	242						
2	252	183	235	294	251	269						
3	250	221	237	257	217	238						
4 5	254	222	242	263	240	254						
5	228	142	166	249	230	238						
6	198	163	182	258	237	247						
7	228	188	208	276	241	255						
8	314	228	281	332	276	300						
9	278	256	264	375	280	342						
10	280	205	252	280	225	239						
11	221	198	208	250	223	236						
12	264	212	237	278	236	254						
13	271	243	258	284	233	266						
14	263	243	254									
15	262	199	241									
16	239	186	215									
17	196	166	181									
18	269	190	228									
19	328	267	294									
20	341	259	316									
21	259	227	239									
22	312	227	253									
23												
24	388	318	347									
25	322	290	304									
26	321	244	280									
27	249	229	239									
28	244	221	235									
29	249	209	231									
30	218	198 212	208									
31	240	212	224									
MONTH												
Ι	FEBRUARY			MARCH			APRIL			MAY		
1	FEBRUARY			MARCH			APRIL	295	311	MAY 244	191	208
1 2							335 418	335	383	244 364	244	316
1 2 3							335 418 436	335 378	383 411	244 364 344	244 249	316 277
1 2 3 4	 			 			335 418 436 447	335 378 367	383 411 417	244 364 344 289	244 249 270	316 277 281
1 2 3							335 418 436	335 378	383 411	244 364 344	244 249	316 277
1 2 3 4	 			 			335 418 436 447	335 378 367	383 411 417	244 364 344 289	244 249 270	316 277 281
1 2 3 4 5	 			 343	 312	 323	335 418 436 447 429 428 434	335 378 367 379 418 396	383 411 417 405 424 412	244 364 344 289 271 159	244 249 270 159 114 99	316 277 281 231 142 107
1 2 3 4 5				 343 318	 312 263	 323 288	335 418 436 447 429 428 434 438	335 378 367 379 418 396 426	383 411 417 405 424 412 432	244 364 344 289 271 159 114	244 249 270 159 114 99 90	316 277 281 231 142 107 106
1 2 3 4 5 6 7 8 9				 343 318 321	 312 263 278	 323 288 297	335 418 436 447 429 428 434 438 450	335 378 367 379 418 396 426 437	383 411 417 405 424 412 432 443	244 364 344 289 271 159 114 135 92	244 249 270 159 114 99 90 78	316 277 281 231 142 107 106 86
1 2 3 4 5				 343 318	 312 263	 323 288	335 418 436 447 429 428 434 438	335 378 367 379 418 396 426	383 411 417 405 424 412 432	244 364 344 289 271 159 114	244 249 270 159 114 99 90	316 277 281 231 142 107 106
1 2 3 4 5 6 7 8 9 10				 343 318 321 321	 312 263 278 273	 323 288 297 285	335 418 436 447 429 428 434 438 450	335 378 367 379 418 396 426 437	383 411 417 405 424 412 432 443 537	244 364 344 289 271 159 114 135 92 83	244 249 270 159 114 99 90 78 80	316 277 281 231 142 107 106 86 81
1 2 3 4 5 6 7 8 9 10			==== ==== ==== ==== ====	 343 318 321 321 280 279	 312 263 278 273 270 267	 323 288 297 285	335 418 436 447 429 428 434 438 450 1020	335 378 367 379 418 396 426 437 433 462 460	383 411 417 405 424 412 432 443 537 510 471	244 364 344 289 271 159 114 135 92 83	244 249 270 159 114 99 90 78 80 76	316 277 281 231 142 107 106 86 81
1 2 3 4 5 6 7 8 9 10 11 12 13				 343 318 321 321 280 279 271	 312 263 278 273 270 267 246	 323 288 297 285 274 274 258	335 418 436 447 429 428 434 438 450 1020 633 483 474	335 378 367 379 418 396 426 437 433 462 460 463	383 411 417 405 424 412 432 443 537 510 471 469	244 364 344 289 271 159 114 135 92 83 81 79 83	244 249 270 159 114 99 90 78 80 76 70 73	316 277 281 231 142 107 106 86 81 79 76 76
1 2 3 4 5 6 7 8 9 10 11 12 13 14			==== ==== ==== ==== ====	 343 318 321 321 280 279 271 674	 312 263 278 273 270 267 246 238	 323 288 297 285 274 274 258 297	335 418 436 447 429 428 434 438 450 1020 633 483 474 475	335 378 367 379 418 396 426 437 433 462 460 463 462	383 411 417 405 424 412 432 443 537 510 471 469 468	244 364 344 289 271 159 114 135 92 83 81 79 83 98	244 249 270 159 114 99 90 78 80 76 70 73 74	316 277 281 231 142 107 106 86 81 79 76 84
1 2 3 4 5 6 7 8 9 10 11 12 13				 343 318 321 321 280 279 271	 312 263 278 273 270 267 246	 323 288 297 285 274 274 258	335 418 436 447 429 428 434 438 450 1020 633 483 474	335 378 367 379 418 396 426 437 433 462 460 463	383 411 417 405 424 412 432 443 537 510 471 469	244 364 344 289 271 159 114 135 92 83 81 79 83	244 249 270 159 114 99 90 78 80 76 70 73	316 277 281 231 142 107 106 86 81 79 76 76
1 2 3 4 5 6 7 8 9 10 11 12 13 14				 343 318 321 321 280 279 271 674	 312 263 278 273 270 267 246 238	 323 288 297 285 274 274 258 297	335 418 436 447 429 428 434 438 450 1020 633 483 474 475	335 378 367 379 418 396 426 437 433 462 460 463 462	383 411 417 405 424 412 432 443 537 510 471 469 468	244 364 344 289 271 159 114 135 92 83 81 79 83 98	244 249 270 159 114 99 90 78 80 76 70 73 74	316 277 281 231 142 107 106 86 81 79 76 84
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15				 343 318 321 321 280 279 271 674 658	 312 263 278 273 270 267 246 238 242	 323 288 297 285 274 258 297 326	335 418 436 447 429 428 434 438 450 1020 633 483 474 475 499	335 378 367 379 418 396 426 437 433 462 460 463 463 463 463 463 418	383 411 417 405 424 412 432 433 537 510 471 469 468 458	244 364 344 289 271 159 114 135 92 83 81 79 83 98	244 249 270 159 114 99 90 78 80 76 70 73 74 89	316 277 281 231 142 107 106 86 81 76 76 84 93
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18				 343 318 321 321 280 279 271 674 658	 312 263 278 273 270 267 246 238 242 282 242	 323 288 297 285 274 258 297 326 303 269 251	335 418 436 447 429 428 434 438 450 1020 633 483 474 475 499 441 426 436	335 378 367 379 418 396 426 437 433 462 460 463 462 433 418 412 407	383 411 417 405 424 412 432 443 537 510 471 469 468 458 428 421 422	244 364 344 289 271 159 114 135 92 83 81 79 83 98 98	244 249 270 159 114 99 90 78 80 76 70 73 74 89 80 68	316 277 281 231 142 107 106 86 81 76 76 84 93
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19				 343 318 321 321 280 279 271 674 658	 312 263 278 273 270 267 246 238 242 282 248 238 257	 323 288 297 285 274 274 258 297 326 303 269 251 260	335 418 436 447 429 428 434 438 450 1020 633 483 474 475 499	335 378 367 379 418 396 426 437 433 462 460 463 462 433 418 412 407 414	383 411 417 405 424 412 432 443 537 510 471 469 468 458 421 422 435	244 364 344 289 271 159 114 135 92 83 81 79 83 98 98	244 249 270 159 114 99 90 78 80 76 70 73 74 89 80 68 58	316 277 281 231 142 107 106 86 81 79 76 76 84 93
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18				 343 318 321 321 280 279 271 674 658	 312 263 278 273 270 267 246 238 242 282 242	 323 288 297 285 274 258 297 326 303 269 251	335 418 436 447 429 428 434 438 450 1020 633 483 474 475 499 441 426 436	335 378 367 379 418 396 426 437 433 462 460 463 462 433 418 412 407	383 411 417 405 424 412 432 443 537 510 471 469 468 458 428 421 422	244 364 344 289 271 159 114 135 92 83 81 79 83 98 98	244 249 270 159 114 99 90 78 80 76 70 73 74 89 80 68	316 277 281 231 142 107 106 86 81 76 76 84 93 87 74 63 60 58
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 20 21				 343 318 321 321 280 279 271 674 658	 312 263 278 273 270 267 246 238 242 248 248 238 257 239	 323 288 297 285 274 274 258 297 326 303 269 251 260 252	335 418 436 447 429 428 434 438 450 1020 633 483 474 475 499 441 426 436 452 462	335 378 367 379 418 396 426 437 433 462 433 418 412 412 433 418 412 414 333 213	383 411 417 405 424 412 432 443 537 510 471 469 468 458 421 422 435 440	244 364 344 289 271 159 114 135 92 83 81 79 83 98 98	244 249 270 159 114 99 90 78 80 76 70 73 74 89 80 68 53 55	316 277 281 231 142 107 106 86 81 79 76 76 84 93 87 74 63 60 58
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 20 21 22				 343 318 321 321 280 279 271 674 658 324 307 260 265 259	 312 263 278 273 270 267 246 238 242 282 248 238 257 239	 323 288 297 285 274 274 258 297 326 303 269 251 260 252	335 418 436 447 429 428 434 438 450 1020 633 483 474 475 499 441 426 436 452 462	335 378 367 379 418 396 426 437 433 462 460 463 462 433 418 412 407 414 333 213 185	383 411 417 405 424 412 432 443 537 510 471 469 468 458 421 422 435 440	244 364 344 289 271 159 114 135 92 83 81 79 83 98 98 98	244 249 270 159 114 99 90 78 80 76 70 73 74 89 80 68 58 53 55	316 277 281 231 142 107 106 86 81 76 76 84 93 87 74 63 60 58
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23				 343 318 321 321 280 279 271 674 658 324 307 260 265 259	 312 263 278 273 270 267 246 238 242 282 248 238 257 239	 323 288 297 285 274 258 297 326 303 269 251 260 252 262 262 263	335 418 436 447 429 428 434 438 450 1020 633 483 474 475 499 441 426 436 452 462	335 378 367 379 418 396 426 437 433 462 463 462 433 418 412 407 414 333 213 185 185	383 411 417 405 424 412 432 433 537 510 471 469 468 458 421 422 435 440 241 199 198	244 364 344 289 271 159 114 135 92 83 81 79 83 98 98 98	244 249 270 159 114 99 90 78 80 76 70 73 74 89 80 68 58 53 55 53	316 277 281 231 142 107 106 86 81 76 76 84 93 87 74 63 60 58
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24				 343 318 321 321 280 279 271 674 658 324 307 260 265 259 272 265 271 286	 312 263 278 273 270 267 246 238 242 248 238 257 239 256 248 252 251	 323 288 297 285 274 274 258 297 326 303 269 251 260 252	335 418 436 447 429 428 434 438 450 1020 633 483 474 475 499 441 426 436 452 462 333 217 216 216	335 378 367 379 418 396 426 437 433 462 433 418 412 410 414 333 213 185 185	383 411 417 405 424 412 432 443 537 510 471 469 468 428 421 422 435 440 241 199 198 177	244 364 344 289 271 159 114 135 92 83 81 79 83 98 98 98 66 64 63 62 55 54	244 249 270 159 114 99 90 78 80 76 70 73 74 89 80 68 58 53 55	316 277 281 231 142 107 106 86 81 79 76 76 84 93 87 74 63 60 58 54 48 51
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23				 343 318 321 321 280 279 271 674 658 324 307 260 265 259	 312 263 278 273 270 267 246 238 242 282 248 238 257 239	 323 288 297 285 274 258 297 326 303 269 251 260 252 262 262 263	335 418 436 447 429 428 434 438 450 1020 633 483 474 475 499 441 426 436 452 462	335 378 367 379 418 396 426 437 433 462 463 462 433 418 412 407 414 333 213 185 185	383 411 417 405 424 412 432 433 537 510 471 469 468 458 421 422 435 440 241 199 198	244 364 344 289 271 159 114 135 92 83 81 79 83 98 98 98	244 249 270 159 114 99 90 78 80 76 70 73 74 89 80 68 58 53 55 53	316 277 281 231 142 107 106 86 81 76 76 84 93 87 74 63 60 58
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26				 343 318 321 321 280 279 271 674 658 324 307 260 265 259 272 265 272 286 294	 312 263 278 273 270 267 246 238 242 248 238 257 239 256 248 252 251 250	 323 288 297 285 274 274 258 297 326 303 269 251 260 252 262 263 261 269 294	335 418 436 447 429 428 434 438 450 1020 633 483 474 475 499 441 426 436 452 462 333 217 216 310 410	335 378 367 379 418 396 426 437 433 462 460 463 462 433 418 412 407 414 333 213 185 185 146 156	383 411 417 405 424 412 432 443 537 510 471 469 468 458 421 422 435 440 241 199 198 177 200 378	244 364 344 289 271 159 114 135 92 83 81 79 83 98 98 98 66 64 63 62 55 54 60	244 249 270 159 114 99 90 78 80 76 70 73 74 89 80 68 58 53 55 53 55 53 55	316 277 281 231 142 107 106 86 81 79 76 76 84 93 87 74 63 60 58 54 48 51 56
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27				 343 318 321 321 280 279 271 674 658 324 307 260 265 259 272 265 271 286 294	 312 263 278 273 270 267 246 238 242 282 248 238 257 239 256 248 252 251 250	 323 288 297 285 274 258 297 326 303 269 251 260 252 262 263 269 251 269	335 418 436 447 429 428 434 438 450 1020 633 483 474 475 499 441 426 436 452 462 333 217 216 216 310	335 378 367 379 418 396 426 437 433 462 460 463 462 433 418 412 407 414 333 213 185 185 185 185 185 185	383 411 417 405 424 412 432 443 537 510 471 469 468 421 422 435 440 241 199 198 177 200 378 392	244 364 344 289 271 159 114 135 92 83 81 79 83 98 98 98 66 64 63 62 55 54 60 68 81	244 249 270 159 114 99 90 78 80 76 70 73 74 89 80 88 58 53 55 53 48 44 48 52	316 277 281 231 142 107 106 86 81 76 76 84 93 87 74 63 60 58 56 48 51 56
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20				 343 318 321 321 280 279 271 674 658 324 307 260 265 259 272 265 271 286 294	 312 263 278 273 270 267 246 238 242 282 248 238 257 239 256 248 252 251 250 276 260 246	 323 288 297 285 274 258 297 326 303 269 251 260 252 262 263 261 269 294 292 255	335 418 436 447 429 428 434 438 450 1020 633 474 475 499 441 426 436 452 462 333 217 216 216 310 410 411 429	335 378 367 379 418 396 426 437 433 462 433 462 433 418 412 407 414 333 213 185 146 156	383 411 417 405 424 412 432 433 537 510 471 469 468 458 428 421 422 435 440 241 199 198 177 200 378 392 420	244 364 344 289 271 159 114 135 92 83 81 79 83 98 98 98 66 64 63 62 55 54 60 68 81 91	244 249 270 159 114 99 90 78 80 76 70 73 74 89 80 68 58 53 55 53 48 44 48 52 57 67 67 67 67	316 277 281 231 142 107 106 86 81 76 76 84 93 87 74 63 60 58 56 48 51 56
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20				343 318 321 321 280 279 271 674 658 324 307 260 265 259 272 265 271 286 294 315 325 375 318	 312 263 278 273 270 267 246 238 242 248 238 257 239 256 248 252 251 250 276 260 246 275	 323 288 297 285 274 274 258 297 326 303 269 251 260 252 262 263 261 269 294 292 255 290	335 418 436 447 429 428 434 438 450 1020 633 483 474 475 499 441 426 436 452 462 333 217 216 216 310 410 411 429 426	335 378 367 379 418 396 426 437 433 462 460 463 462 433 418 412 407 414 333 213 185 146 156 310 379 411 369	383 411 417 405 424 412 432 443 537 510 471 469 468 458 421 422 435 440 241 199 198 177 200 378 392 420 397	244 364 344 289 271 159 114 135 92 83 81 79 83 98 98 98 66 64 63 62 55 54 60 68 81 91	244 249 270 159 114 99 90 78 80 76 70 73 74 89 80 68 58 53 55 53 48 44 48 52 57 65 71 73	316 277 281 231 142 107 106 86 81 79 76 76 84 93 87 74 63 60 58 56 54 48 51 56
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20				 343 318 321 321 280 279 271 674 658 324 307 260 265 259 272 265 271 286 294	 312 263 278 273 270 267 246 238 242 282 248 238 257 239 256 248 252 251 250 276 260 246	 323 288 297 285 274 258 297 326 303 269 251 260 252 262 263 261 269 294 292 255	335 418 436 447 429 428 434 438 450 1020 633 474 475 499 441 426 436 452 462 333 217 216 216 310 410 411 429	335 378 367 379 418 396 426 437 433 462 433 462 433 418 412 407 414 333 213 185 146 156	383 411 417 405 424 412 432 433 537 510 471 469 468 458 428 421 422 435 440 241 199 198 177 200 378 392 420	244 364 344 289 271 159 114 135 92 83 81 79 83 98 98 98 66 64 63 62 55 54 60 68 81 91	244 249 270 159 114 99 90 78 80 76 70 73 74 89 80 68 58 53 55 53 48 44 48 52 57 67 67 67 67	316 277 281 231 142 107 106 86 81 76 76 84 93 87 74 63 60 58 56 48 51 56
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20				 343 318 321 321 280 279 271 674 658 324 307 260 265 259 272 265 271 286 294	 312 263 278 273 270 267 246 238 242 282 248 238 257 239 256 248 252 251 250 276 260 246 275 260	 323 288 297 285 274 258 297 326 303 269 251 260 252 262 263 261 269 294 292 255 290 270	335 418 436 447 429 428 434 438 450 1020 633 483 474 475 499 441 426 333 217 216 216 310 410 411 429 426 369	335 378 367 379 418 396 426 437 433 462 460 463 462 433 418 412 407 414 333 213 185 185 185 185 185 185 185 185 185 185	383 411 417 405 424 412 432 443 537 510 471 469 468 421 422 435 440 241 199 198 177 200 378 392 420 397 268	244 364 344 289 271 159 114 135 92 83 81 79 88 98 98 98 66 64 63 62 55 54 60 68 81 91 91	244 249 270 159 114 99 90 78 80 76 70 73 74 89 80 68 58 55 55 53 48 44 48 52 57 65 71 73 65	316 277 281 231 142 107 106 86 81 76 76 84 93 87 74 63 60 58 51 56 62 70 77 80 71

MONTH

06752260 CACHE LA POUDRE RIVER AT FORT COLLINS, CO--Continued

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

		SPE	CIFIC CON	DUCTANCE,	(MICKOSI	DIVIDI (D) CIVI	@ 25 DEG. C), WIIILIN	I LI III OCI			IDDIC 1777
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1 2	64 51	45 41	50 45	58 65	48 51	54 57	299 266	157 241	222 256	97 93	86 76	92 85
3	51	41	46	61	52	56	256	120	164	119	81	97
4	48	42	45	60	52	56	130	103	110	107		98
5	47	39	41	61	54	57	132	88	118	103	80	91
_	4.2	2.0	4.0	60		63	100	100	116	116		0.0
6 7	43 44	38 39	40 41	69 69	57 58	63 61	129 222	100 109	116 155	116 121	77 100	90 109
8	44	40	42	69	59	63	270	133	205	119	87	101
9	43	38	40	69	59	64	166	133	148	100	91	95
10	49	43	45	103	67	82	169	101	135	102	89	95
	4.77	4.1	1.1	104	70	0.0	100	0.7	101	115	0.5	100
11 12	47 45	41 40	44 43	124 91	72 73	92 81	108 108	97 100	101 104	115 116	95 102	103 108
13	45			105	73	84	117	105	104	128	102	113
14	46	42	43	99	73	81	108	100	105	154	119	135
15	46	40	43	121	78	102	100		97	221	118	155
16	46	45	46	150	104	116	102	94	97	135	116	124
17 18	46 45	42 42	44 43	157 76	67 65	108 70	97 93	89 89	92 92	142 135	105 112	118 121
19	43	39	40	76	66	70	98	93	95	145	102	115
20	39	35	36	78	67	72	103	98	100	147	83	120
21	37	34	35	76	67	70	114	101	109	92	83	87
22 23	40 40	35 36	36 37	81 85	70 72	76 76	123 121	114 108	117 112	113 123	86 108	103 117
24	39	37	38	81	62	67	170	111	131	134	118	127
25	43	39	41	83	67	73	182	126	158	140	131	136
26	46	43	45	83	69	74	191	107	137	146	140	142
27 28	53 57	46 52	49 54	109 159	68 74	80 112	125 135	104 103	115 115	146 134	133 127	143 130
29	57	49	53	178	152	166	184	90	145	143	131	136
30	57	54	55	197	174	188	90	85	87	145	136	142
31				198	108	143	92	86	87			
MONTH				198	48	84	299		127	221		114
DAY	MAX	MIN	MEAN	pH (STA	NDARD U	NITS), WAT	ER YEAR OO	CTOBER 19	996 TO SEPT MEAN	EMBER 1997 MAX	MIN	MEAN
		MIN		MAX		MEAN	MAX			MAX	MIN	MEAN
	MAX OCTOBER	MIN		• .		MEAN					MIN	MEAN
1	OCTOBER 8.9	8.2	8.4	MAX IOVEMBER	MIN	MEAN D	MAX ECEMBER 	MIN	MEAN	MAX JANUARY		
1 2	OCTOBER 8.9 8.9	8.2 8.2	8.4 8.4	MAX IOVEMBER	MIN	MEAN D	MAX ECEMBER 	MIN	MEAN 	MAX JANUARY 		
1 2 3	OCTOBER 8.9 8.9 8.8	8.2 8.2 8.1	8.4 8.4 8.4	MAX IOVEMBER	MIN	MEAN D:	MAX ECEMBER 	MIN	MEAN 	MAX JANUARY		
1 2	8.9 8.9 8.8 8.9	8.2 8.2 8.1 8.1	8.4 8.4 8.4 8.4	MAX IOVEMBER	MIN	MEAN D	MAX ECEMBER 	MIN	MEAN 	MAX JANUARY 		
1 2 3 4 5	0CTOBER 8.9 8.9 8.8 8.9	8.2 8.2 8.1 8.1 8.1	8.4 8.4 8.4 8.4	MAX IOVEMBER	MIN	MEAN D:	MAX ECEMBER 	MIN	MEAN	MAX JANUARY	 	
1 2 3 4 5	OCTOBER 8.9 8.9 8.8 8.9 8.8	8.2 8.2 8.1 8.1 8.1	8.4 8.4 8.4 8.4 8.4	MAX IOVEMBER	MIN	MEAN D.	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5	8.9 8.9 8.8 8.9 8.8 8.9	8.2 8.2 8.1 8.1 8.1	8.4 8.4 8.4 8.4 8.4 8.4	MAX IOVEMBER	MIN	MEAN D.	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5 6 7 8	0CTOBER 8.9 8.9 8.8 8.9 8.8 8.8	8.2 8.2 8.1 8.1 8.1 8.1 8.1	8.4 8.4 8.4 8.4 8.4 8.4 8.3	MAX IOVEMBER	MIN	MEAN D.	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5	8.9 8.9 8.8 8.9 8.8 8.9	8.2 8.2 8.1 8.1 8.1	8.4 8.4 8.4 8.4 8.4 8.4	MAX IOVEMBER	MIN	MEAN D:	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5 6 7 8 9	8.9 8.9 8.8 8.9 8.8 8.7 8.8	8.2 8.2 8.1 8.1 8.1 8.1 8.1 8.1	8.4 8.4 8.4 8.4 8.4 8.4 8.3 8.3	MAX IOVEMBER	MIN	MEAN D:	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5 6 7 8 9 10	OCTOBER 8.9 8.9 8.8 8.9 8.8 8.7 8.6 8.8	8.2 8.2 8.1 8.1 8.1 8.1 8.1 8.1 8.1	8.4 8.4 8.4 8.4 8.4 8.4 8.3 8.3 8.3	MAX IOVEMBER	MIN	MEAN D:	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5 6 7 8 9 10	OCTOBER 8.9 8.9 8.8 8.9 8.8 8.7 8.7 8.6 8.8	8.2 8.2 8.1 8.1 8.1 8.1 8.1 8.1 8.1	8.4 8.4 8.4 8.4 8.4 8.4 8.3 8.3 8.3	MAX IOVEMBER	MIN	MEAN D	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5 6 7 8 9 10	0CTOBER 8.9 8.9 8.8 8.9 8.8 8.7 8.7 8.6	8.2 8.2 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2	8.4 8.4 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3	MAX IOVEMBER	MIN	MEAN D:	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5 6 7 8 9 10	OCTOBER 8.9 8.9 8.8 8.9 8.8 8.7 8.7 8.6 8.8	8.2 8.2 8.1 8.1 8.1 8.1 8.1 8.1 8.1	8.4 8.4 8.4 8.4 8.4 8.4 8.3 8.3 8.3	MAX IOVEMBER	MIN	MEAN D:	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	8.9 8.9 8.8 8.9 8.8 8.7 8.6 8.8 8.7 8.6	8.2 8.2 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2	8.4 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3	MAX IOVEMBER	MIN	MEAN D	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	0CTOBER 8.9 8.9 8.8 8.9 8.8 8.7 8.6 8.8 8.7 8.6	8.2 8.2 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2	8.4 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3	MAX IOVEMBER	MIN	MEAN D:	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	0CTOBER 8.9 8.9 8.8 8.9 8.8 8.8 8.7 8.6 8.8 8.7 8.6	8.2 8.2 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2	8.4 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3	MAX IOVEMBER	MIN	MEAN D	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	0CTOBER 8.9 8.9 8.8 8.9 8.8 8.7 8.6 8.8 8.7 8.6	8.2 8.2 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2	8.4 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3	MAX IOVEMBER	MIN	MEAN D:	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.9 8.9 8.8 8.9 8.8 8.7 8.7 8.6 8.8 8.7 8.6	8.2 8.2 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2	8.4 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3	MAX IOVEMBER	MIN	MEAN D	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	8.9 8.9 8.8 8.9 8.8 8.8 8.7 8.7 8.6 8.8 8.7 8.7	8.2 8.2 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2	8.4 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3	MAX IOVEMBER	MIN	MEAN D	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	8.9 8.9 8.8 8.9 8.8 8.8 8.7 8.7 8.6 8.8 8.8 8.7 8.7	8.2 8.2 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2	8.4 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3	MAX IOVEMBER	MIN	MEAN D:	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	8.9 8.9 8.8 8.9 8.8 8.8 8.7 8.6 8.8 8.7 8.6	8.2 8.2 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2	8.4 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3	MAX IOVEMBER	MIN	MEAN D	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	8.9 8.9 8.8 8.9 8.8 8.8 8.7 8.7 8.6 8.8 8.8 8.7 8.7	8.2 8.2 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2	8.4 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3	MAX IOVEMBER	MIN	MEAN D:	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	8.9 8.9 8.8 8.9 8.8 8.8 8.8 8.7 8.6 8.8 8.7 8.6	8.2 8.2 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2	8.4 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3	MAX IOVEMBER	MIN	MEAN D	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	8.9 8.9 8.9 8.8 8.9 8.8 8.8 8.7 8.6 8.8 8.7 8.6	8.2 8.2 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.1	8.4 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4	MAX IOVEMBER	MIN	MEAN D:	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	0CTOBER 8.9 8.9 8.8 8.9 8.8 8.7 8.7 8.6 8.8 8.7 8.6	8.2 8.2 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2	8.4 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4	MAX IOVEMBER	MIN	MEAN D	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27	8.9 8.9 8.8 8.8 8.8 8.8 8.7 8.6 8.8 8.8 8.7 8.6	8.2 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.1	8.4 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4	MAX IOVEMBER	MIN	MEAN D	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	0CTOBER 8.9 8.9 8.8 8.9 8.8 8.7 8.7 8.6 8.8 8.7 8.6	8.2 8.2 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2	8.4 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4	MAX IOVEMBER	MIN	MEAN D	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	8.9 8.9 8.9 8.8 8.9 8.8 8.8 8.7 8.6 8.8 8.7 8.6 8.5	8.2 8.2 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.1	8.4 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4	MAX IOVEMBER	MIN	MEAN D	MAX ECEMBER	MIN	MEAN	MAX JANUARY		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	8.9 8.9 8.8 8.9 8.8 8.8 8.7 8.7 8.6 8.8 8.8 8.7 8.6	8.2 8.2 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.1	8.4 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4	MAX IOVEMBER	MIN	MEAN D	MAX ECEMBER	MIN	MEAN	MAX JANUARY		

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pH (STANDARD UNITS), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
F	EBRUARY			MARCH			APRIL			MAY		
1 2 3 4 5	 	 	 	 	 	 	8.4 7.9 8.2 8.1 8.2	7.8 7.7 7.8 7.7	8.0 7.8 7.9 7.9	8.5 8.6 8.6 8.6	7.8 7.9 8.0 7.9	8.1 8.2 8.3 8.2
6 7 8 9 10				8.6 8.7 8.7 8.7	8.2 8.2 8.2 8.3	8.4 8.4 8.4 8.5	8.2 8.2 8.2 8.1 8.1	7.9 7.8 7.8 7.9	8.0 8.0 8.0 8.0	8.6 8.5 8.7 8.5 8.5	7.8 7.8 7.6 7.7 7.6	8.1 8.0 8.0 7.9
11 12 13 14 15	 	 	 	8.8 8.8 8.6 8.2 8.2	8.3 8.3 8.0 7.9 7.9	8.5 8.5 8.3 8.0	8.2 8.2 8.2 8.2 8.3	7.9 8.0 7.9 7.9	8.0 8.1 8.1 8.0 8.0	8.3 8.5 8.5 8.1 8.8	7.6 7.6 7.5 7.5 7.6	7.9 7.9 7.9 7.8 8.0
16 17 18 19 20	 	 	 	8.3 8.4 8.3 8.5 8.5	7.9 8.0 7.9 7.9 7.9	8.1 8.1 8.2 8.2	8.3 8.3 8.3 8.3	7.8 7.8 7.8 7.8 7.9	8.0 8.0 8.0 8.0	8.5 8.2 8.1 8.0 7.8	7.8 7.8 7.6 7.5 7.4	8.1 7.9 7.9 7.8 7.6
21 22 23 24 25	 			8.7 8.6 8.6 8.6 8.6	8.0 8.0 8.0 8.1 8.1	8.3 8.3 8.3 8.3	8.5 8.6 8.7 8.4 8.3	8.0 8.1 8.0 8.0	8.2 8.3 8.3 8.2 8.1	7.9 7.7 7.5 7.5 7.7	7.4 7.3 7.1 7.2 7.3	7.6 7.5 7.3 7.4 7.5
26 27 28 29 30 31	 			8.5 8.6 8.5 8.4 8.4	8.1 8.1 7.8 7.8 7.9 7.8	8.3 8.3 8.1 8.1 8.1	8.5 8.6 8.5 8.7	7.9 8.0 8.0 8.0	8.2 8.2 8.3 	7.9 8.0 8.6 8.6 8.6	7.4 7.4 8.0 7.9 7.4	7.6 7.7 8.2 8.2 8.1
MONTH												
MONTH	JUNE			JULY			AUGUST			SEPTEMBER		
1 2 3 4 5	JUNE 8.0 8.0 7.7 7.7 7.7	7.4 7.4 7.2 7.3 7.2	7.7 7.7 7.4 7.5 7.4	JULY 7.6 7.7 7.9 7.7 7.7	7.2 7.3 7.4 7.3 7.3	7.4 7.5 7.6 7.5 7.5	AUGUST 8.3 8.2 8.6 8.5 8.3	7.5 7.4 7.5 7.7 7.6	7.8 7.7 8.0 8.0 7.9	SEPTEMBER 8.4 8.0 8.5 8.5 8.4	7.7 7.7 7.7 7.6 7.6	7.9 7.8 7.9 7.9 7.9
1 2 3 4	8.0 8.0 7.7 7.7	7.4 7.2 7.3	7.7 7.4 7.5	7.6 7.7 7.9 7.7	7.3 7.4 7.3	7.5 7.6 7.5	8.3 8.2 8.6 8.5	7.4 7.5 7.7	7.7 8.0 8.0	8.4 8.0 8.5 8.5	7.7 7.7 7.6	7.8 7.9 7.9
1 2 3 4 5 6 7 8 9	8.0 8.0 7.7 7.7 7.7 7.6 7.6 7.8 7.8	7.4 7.2 7.3 7.2 7.2 7.2 7.3 7.3	7.7 7.4 7.5 7.4 7.4 7.3 7.4 7.5	7.6 7.7 7.9 7.7 7.7 7.8 7.9 8.0 8.1	7.3 7.4 7.3 7.3 7.3 7.5 7.4 7.3	7.5 7.6 7.5 7.5 7.6 7.6 7.7	8.3 8.2 8.6 8.5 8.3 8.1 8.2 8.5 8.3	7.4 7.5 7.7 7.6 7.6 7.6 7.6 7.8	7.7 8.0 8.0 7.9 7.9 7.9 7.9	8.4 8.0 8.5 8.5 8.4 8.7 8.6 8.7 8.8	7.7 7.7 7.6 7.6 7.7 7.8 7.9 7.8	7.8 7.9 7.9 7.9 8.1 8.1 8.2 8.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.0 8.0 7.7 7.7 7.7 7.6 7.6 7.8 7.8 8.0 8.3 8.1	7.4 7.2 7.3 7.2 7.2 7.2 7.3 7.3 7.4	7.7 7.4 7.5 7.4 7.3 7.4 7.5 7.8 7.9 8.0	7.6 7.7 7.9 7.7 7.7 7.8 7.9 8.0 8.1 8.4 8.4 8.4 8.3 8.4	7.3 7.4 7.3 7.3 7.5 7.4 7.4 7.4 7.4 7.5 7.4	7.5 7.6 7.5 7.5 7.6 7.6 7.7 7.7 7.8 7.8 7.8	8.3 8.2 8.6 8.5 8.3 8.1 8.2 8.3 8.2	7.4 7.5 7.7 7.6 7.6 7.8 7.8 7.8 7.8	7.7 8.0 8.0 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	8.4 8.0 8.5 8.5 8.4 8.7 8.6 8.7 8.8 8.8	7.7 7.7 7.6 7.6 7.7 7.8 7.9 7.8 7.8 7.8 7.8 7.8	7.8 7.9 7.9 7.9 8.1 8.2 8.2 8.1 8.1 8.1 8.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	8.0 8.0 7.7 7.7 7.7 7.6 7.6 7.8 8.0 8.3 8.1	7.4 7.2 7.3 7.2 7.2 7.3 7.3 7.3 7.4 7.6 7.9	7.7 7.4 7.5 7.4 7.3 7.4 7.5 7.8 7.9 8.0 	7.6 7.7 7.9 7.7 7.7 7.8 7.9 8.0 8.1 8.4 8.4 8.4 8.3 8.4 8.6	7.3 7.4 7.3 7.3 7.5 7.4 7.3 7.4 7.4 7.4 7.5 7.4 7.4 7.5 7.4 7.5	7.5 7.6 7.5 7.5 7.6 7.7 7.7 7.8 7.7 7.8 7.8 7.8 7.8 7.9 7.8 7.8	8.3 8.2 8.6 8.5 8.3 8.1 8.2 8.3 8.2 8.2 8.3 8.2 8.3 8.2 8.3	7.4 7.5 7.7 7.6 7.6 7.8 7.8 7.8 7.6 7.7 7.3 7.3	7.7 8.0 8.0 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.5 7.5	8.4 8.5 8.5 8.4 8.7 8.8 8.8 8.9 8.7 8.8 8.9 8.8 8.9	7.7 7.6 7.6 7.6 7.7 7.8 7.9 7.8 7.8 7.8 7.8 7.8 7.8 7.8	7.8 7.9 7.9 7.9 8.1 8.2 8.2 8.1 8.1 8.2 8.2 8.2 8.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	8.0 8.0 7.7 7.7 7.7 7.6 7.6 7.8 8.0 8.3 8.1	7.4 7.2 7.3 7.2 7.2 7.3 7.3 7.3 7.4 7.6 7.9	7.7 7.4 7.5 7.4 7.3 7.4 7.5 7.8 7.9 8.0	7.6 7.7 7.9 7.7 7.8 7.9 8.0 8.1 8.4 8.4 8.4 8.3 8.2 8.1 8.3 8.2 8.3	7.3 7.4 7.3 7.3 7.5 7.4 7.3 7.4 7.4 7.5 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.6 7.5 7.5 7.6 7.7 7.7 7.7 7.8 7.8 7.8 7.8 7.9 7.8 7.8 7.7 7.8	8.3 8.2 8.6 8.5 8.3 8.1 8.2 8.2 8.2 8.3 8.2 8.1 8.0 7.9 8.0 8.1 8.2 8.3	7.4 7.5 7.6 7.6 7.6 7.8 7.6 7.8 7.3 7.3 7.3 7.3 7.6 7.6 7.6	7.7 8.0 8.0 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.5 7.5 7.5 7.5 7.5 7.5 8.0 8.0	8.4 8.5 8.5 8.7 8.7 8.8 8.9 8.7 8.8 8.9 8.8 8.9 8.8 8.9 8.8 8.9	7.7 7.7 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.9 7.9 7.9 8.7 8.7 8.8 7.8	7.8 7.9 7.9 7.9 8.1 8.2 8.2 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	15.7	12.7	14.1	6.2	3.4	4.8						
2	14.0 14.6	$12.4 \\ 11.2$	13.1 12.9	7.5 7.5	3.8 4.4	5.9 6.1						
4	16.6	12.7	14.5	8.4	6.3	7.5						
5	15.5	12.5	14.5	7.4	5.1	6.3						
6	15.8	12.9	14.5	6.1	3.5	4.3						
7 8	15.6 16.2	$12.7 \\ 11.7$	14.2 13.9	4.3	2.2 1.9	3.4 3.3						
9	15.5	12.2	13.8	6.8	2.8	5.0						
10	14.6	11.8	13.5	6.8	4.0	5.7						
11	15.3	12.0	13.9	6.2	3.9	5.3						
12	15.7	12.8	14.4	6.0	3.3	4.8						
13 14	15.8 14.3	12.8 12.6	14.4 13.5	6.0 	4.7	5.2						
15	13.8	11.0	12.4									
1.0	10 4	0.6	11 0									
16 17	12.4 9.6	9.6 5.5	11.2 7.0									
18	9.4	5.0	7.1									
19 20	11.3 8.8	7.6 6.4	9.1 7.9									
20	0.0	0.4	1.9									
21	7.3	4.6	5.9									
22 23	8.0	3.9	6.0									
24	7.9	5.9	7.2									
25	8.3	6.7	7.5									
26	7.7	5.9	6.8									
27	7.2	5.2	6.3									
28 29	8.0 8.2	5.1 6.5	6.7 7.5									
30	7.3	5.4	5.9									
31	5.4	3.8	4.5									
MONTH												
F	FEBRIJARY			MARCH			APRTI.			MAY		
	FEBRUARY			MARCH			APRIL			MAY		
1		===	===			===	12.2	8.2	9.9	12.4	9.2	10.5
								8.2 5.6 4.5	9.9 6.8 8.7		9.2 7.6 8.6	10.5 10.7 11.6
1 2 3 4							12.2 8.3 13.3 11.9	5.6 4.5 7.2	6.8 8.7 9.4	12.4 15.6 14.2 15.2	7.6 8.6 10.4	10.7 11.6 13.0
1 2 3							12.2 8.3 13.3	5.6 4.5	6.8 8.7	12.4 15.6 14.2	7.6 8.6	10.7 11.6
1 2 3 4 5							12.2 8.3 13.3 11.9 9.1	5.6 4.5 7.2 4.1	6.8 8.7 9.4 6.4	12.4 15.6 14.2 15.2 15.7	7.6 8.6 10.4 10.8	10.7 11.6 13.0 13.4
1 2 3 4 5				 7.7	 3.2	 5.5	12.2 8.3 13.3 11.9 9.1 10.6 12.6	5.6 4.5 7.2 4.1 2.9 4.0	6.8 8.7 9.4 6.4 6.3 7.7	12.4 15.6 14.2 15.2 15.7	7.6 8.6 10.4 10.8	10.7 11.6 13.0 13.4 11.5 11.1
1 2 3 4 5							12.2 8.3 13.3 11.9 9.1	5.6 4.5 7.2 4.1	6.8 8.7 9.4 6.4	12.4 15.6 14.2 15.2 15.7	7.6 8.6 10.4 10.8	10.7 11.6 13.0 13.4
1 2 3 4 5 6 7 8	 			 7.7 8.4	 3.2 4.0	 5.5 6.3	12.2 8.3 13.3 11.9 9.1 10.6 12.6 7.7	5.6 4.5 7.2 4.1 2.9 4.0 4.2	6.8 8.7 9.4 6.4 6.3 7.7 5.6	12.4 15.6 14.2 15.2 15.7 13.9 14.3	7.6 8.6 10.4 10.8 8.8 8.7 8.2	10.7 11.6 13.0 13.4 11.5 11.1 10.5
1 2 3 4 5 6 7 8 9				7.7 8.4 8.4	3.2 4.0 4.1 5.6	 5.5 6.3 6.4 7.6	12.2 8.3 13.3 11.9 9.1 10.6 12.6 7.7 4.2 4.9	5.6 4.5 7.2 4.1 2.9 4.0 4.2 1.5	6.8 8.7 9.4 6.4 6.3 7.7 5.6 3.3 2.5	12.4 15.6 14.2 15.2 15.7 13.9 14.3 14.3	7.6 8.6 10.4 10.8 8.8 8.7 8.2 6.6 6.8	10.7 11.6 13.0 13.4 11.5 11.1 10.5 9.3 9.3
1 2 3 4 5 6 7 8 9 10			 	 7.7 8.4 8.4 10.2	3.2 4.0 4.1 5.6	 5.5 6.3 6.4 7.6	12.2 8.3 13.3 11.9 9.1 10.6 12.6 7.7 4.2 4.9	5.6 4.5 7.2 4.1 2.9 4.0 4.2 1.5 1.1	6.8 8.7 9.4 6.4 6.3 7.7 5.6 3.3 2.5	12.4 15.6 14.2 15.2 15.7 13.9 14.3 14.3 12.3 12.8	7.6 8.6 10.4 10.8 8.8 8.7 8.2 6.6 6.8 7.2 6.7	10.7 11.6 13.0 13.4 11.5 11.1 10.5 9.3 9.3 8.4 9.0
1 2 3 4 5 6 7 8 9 10 11 12 13				7.7 8.4 8.4 10.2	3.2 4.0 4.1 5.6 6.4 6.5 2.3	 5.5 6.3 6.4 7.6 8.4 8.0 5.2	12.2 8.3 13.3 11.9 9.1 10.6 12.6 7.7 4.2 4.9 8.1 10.4 12.9	5.6 4.5 7.2 4.1 2.9 4.0 4.2 1.5 1.1	6.8 8.7 9.4 6.4 6.3 7.7 5.6 3.3 2.5	12.4 15.6 14.2 15.2 15.7 13.9 14.3 12.3 12.8 9.7 11.8	7.6 8.6 10.4 10.8 8.8 8.7 8.2 6.6 6.8 7.2 6.7	10.7 11.6 13.0 13.4 11.5 11.1 10.5 9.3 9.3 8.4 9.0 9.2
1 2 3 4 5 6 7 8 9 10			 	 7.7 8.4 8.4 10.2	3.2 4.0 4.1 5.6	 5.5 6.3 6.4 7.6 8.4 8.0 5.2	12.2 8.3 13.3 11.9 9.1 10.6 12.6 7.7 4.2 4.9	5.6 4.5 7.2 4.1 2.9 4.0 4.2 1.5 1.1	6.8 8.7 9.4 6.4 6.3 7.7 5.6 3.3 2.5	12.4 15.6 14.2 15.2 15.7 13.9 14.3 14.3 12.3 12.8	7.6 8.6 10.4 10.8 8.8 8.7 8.2 6.6 6.8 7.2 6.7	10.7 11.6 13.0 13.4 11.5 11.1 10.5 9.3 9.3 8.4 9.0 9.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15				7.7 8.4 8.4 10.2 10.9 9.2 6.5 2.5 4.6	 3.2 4.0 4.1 5.6 6.4 6.5 2.3	 5.5 6.3 6.4 7.6 8.4 8.0 5.2 1.7	12.2 8.3 13.3 11.9 9.1 10.6 12.6 7.7 4.2 4.9 8.1 10.4 12.9 11.9	5.6 4.5 7.2 4.1 2.9 4.0 4.2 1.5 1.1 1.0 .9 2.2 5.1 7.0	6.8 8.7 9.4 6.4 6.3 7.7 5.6 3.3 2.5 3.6 4.8 6.9 8.1	12.4 15.6 14.2 15.2 15.7 13.9 14.3 12.3 12.8 9.7 11.8 12.2 11.8	7.6 8.6 10.4 10.8 8.8 8.7 8.2 6.6 6.8 7.2 6.7 7.6 8.3	10.7 11.6 13.0 13.4 11.5 11.1 10.5 9.3 9.3 8.4 9.0 9.2 9.5 11.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15				 7.7 8.4 8.4 10.2 10.9 9.2 6.5 2.5 4.6	 3.2 4.0 4.1 5.6 6.4 6.5 2.3 .6 .2	 5.5 6.3 6.4 7.6 8.4 8.0 5.2 1.7 2.2	12.2 8.3 13.3 11.9 9.1 10.6 12.6 7.7 4.2 4.9 8.1 10.4 12.9 11.9 14.8	5.6 4.5 7.2 4.1 2.9 4.0 4.2 1.5 1.1 1.0 .9 2.2 5.1 7.0	6.8 8.7 9.4 6.4 6.3 7.7 5.6 3.3 2.5 3.6 4.8 6.9 8.1 10.3	12.4 15.6 14.2 15.2 15.7 13.9 14.3 12.3 12.8 9.7 11.8 12.2 11.8 14.8	7.6 8.6 10.8 8.8 8.7 8.2 6.6 6.8 7.2 6.7 7.6 8.3	10.7 111.6 13.0 13.4 11.5 11.1 10.5 9.3 9.3 8.4 9.0 9.2 9.5 11.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18				7.7 8.4 8.4 10.2 10.9 9.2 6.5 2.5 4.6	3.2 4.0 4.1 5.6 6.4 6.5 2.3 .6 2	 5.5 6.3 6.4 7.6 8.4 8.0 5.2 1.7 2.2	12.2 8.3 13.3 11.9 9.1 10.6 12.6 7.7 4.2 4.9 8.1 10.4 12.9 11.9 14.8	5.6 4.5 7.2 4.1 2.9 4.0 4.2 1.5 1.1 1.0 .9 2.2 5.1 7.0	6.8 8.7 9.4 6.4 6.3 7.7 5.6 3.3 2.5 3.6 4.8 6.9 8.1 10.3	12.4 15.6 14.2 15.2 15.7 13.9 14.3 12.3 12.8 9.7 11.8 12.2 11.8 14.8	7.6 8.6 10.4 10.8 8.8 8.7 8.2 6.6 6.8 7.2 6.7 7.6 6.7 7.6 8.3 9.2 10.0 10.4	10.7 11.6 13.0 13.4 11.5 11.1 10.5 9.3 9.3 8.4 9.0 9.2 9.5 11.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19				 7.7 8.4 8.4 10.2 10.9 9.2 6.5 2.5 4.6	3.2 4.0 4.1 5.6 6.4 6.5 2.3 .6 .2	 5.5 6.3 6.4 7.6 8.4 8.0 5.2 1.7 2.2 4.4 6.4 7.5 9.4	12.2 8.3 13.3 11.9 9.1 10.6 12.6 7.7 4.2 4.9 8.1 10.4 12.9 11.9 14.8 17.9 19.3 17.4 18.8	5.6 4.5 7.2 4.1 2.9 4.0 4.2 1.5 1.1 1.0 2.2 5.1 7.0 9.4 10.1 11.0	6.8 8.7 9.4 6.4 6.3 7.7 5.6 3.3 2.5 3.6 4.8 6.9 8.1 10.3 12.9 14.2 14.5	12.4 15.6 14.2 15.2 15.7 13.9 14.3 12.3 12.8 9.7 11.8 14.8 14.8	7.6 8.6 10.4 10.8 8.8 8.7 8.2 6.6 6.8 7.2 6.7 7.6 8.3 9.2 10.0 10.4 9.2	10.7 111.6 13.0 13.4 11.5 11.1 10.5 9.3 9.3 8.4 9.0 9.2 9.5 11.2 11.8 11.9 11.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18				7.7 8.4 8.4 10.2 10.9 9.2 6.5 2.5 4.6 7.6 8.4 9.9 11.9	3.2 4.0 4.1 5.6 6.4 6.5 2.3 .6 2	 5.5 6.3 6.4 7.6 8.4 8.0 5.2 1.7 2.2	12.2 8.3 13.3 11.9 9.1 10.6 12.6 7.7 4.2 4.9 8.1 10.4 12.9 11.9 14.8	5.6 4.5 7.2 4.1 2.9 4.0 4.2 1.5 1.1 1.0 .9 2.2 5.1 7.0	6.8 8.7 9.4 6.4 6.3 7.7 5.6 3.3 2.5 3.6 4.8 6.9 8.1 10.3	12.4 15.6 14.2 15.2 15.7 13.9 14.3 12.3 12.8 9.7 11.8 12.2 11.8 14.8	7.6 8.6 10.4 10.8 8.8 8.7 8.2 6.6 6.8 7.2 6.7 7.6 6.7 7.6 8.3 9.2 10.0 10.4	10.7 11.6 13.0 13.4 11.5 11.1 10.5 9.3 9.3 8.4 9.0 9.2 9.5 11.2 11.8 11.9 11.6 10.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21				 7.7 8.4 8.4 10.2 10.9 9.2 6.5 2.5 4.6 7.6 8.4 9.9 11.9 13.0	 3.2 4.0 4.1 5.6 6.4 6.5 2.3 .6 .2 .9 4.1 6.6 8.3	 5.5 6.3 6.4 7.6 8.4 8.0 5.2 1.7 2.2 4.4 6.4 7.5 9.4 10.9	12.2 8.3 13.3 11.9 9.1 10.6 12.6 7.7 4.2 4.9 8.1 10.4 12.9 11.9 14.8 17.9 14.8	5.6 4.5 7.2 4.1 2.9 4.0 4.2 1.5 1.1 1.0 2.2 5.1 7.0 9.4 10.1 11.0 11.4 11.3	6.8 8.7 9.4 6.4 6.3 7.7 5.6 3.3 2.5 3.6 4.8 6.9 8.1 10.3 12.9 14.2 14.2 14.5 14.4	12.4 15.6 14.2 15.2 15.7 13.9 14.3 12.3 12.8 9.7 11.8 14.8 14.8 14.4 14.1 13.4 12.1 12.4	7.6 8.6 10.4 10.8 8.8 8.7 8.2 6.6 6.8 7.2 6.7 7.6 8.3 9.2 10.0 4 9.2 9.4	10.7 11.6 13.0 13.4 11.5 11.1 10.5 9.3 9.3 8.4 9.0 9.2 9.5 11.2 11.8 11.9 11.6 10.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 20 21 22				 7.7 8.4 8.4 10.2 10.9 9.2 6.5 2.5 4.6 7.6 8.4 9.9 11.9 13.0	3.2 4.0 4.1 5.6 6.4 6.5 2.3 .6 2 .2 .9 4.1 5.1 6.8 8.3	 5.5 6.3 6.4 7.6 8.4 8.0 5.2 1.7 2.2 4.4 6.4 7.5 9.4 10.9	12.2 8.3 13.3 11.9 9.1 10.6 12.6 7.7 4.2 4.9 8.1 10.4 12.9 11.9 14.8 17.9 19.3 17.4 18.8 17.9	5.6 4.5 7.2 4.1 2.9 4.0 4.2 1.5 1.1 1.0 9.2.2 5.1 7.0 9.4 10.1 11.0 11.3	6.8 8.7 9.4 6.4 6.3 7.7 5.6 3.3 2.5 3.6 4.8 6.9 10.3 12.9 14.2 14.1 14.5 14.4	12.4 15.6 14.2 15.2 15.7 13.9 14.3 12.3 12.8 9.7 11.8 12.2 11.8 14.8	7.6 8.6 10.4 10.8 8.8 8.7 8.2 6.6 6.8 7.2 6.7 7.6 6.7 7.6 8.3 9.2 10.0 10.4 9.2 9.4	10.7 11.6 13.0 13.4 11.5 11.1 10.5 9.3 8.4 9.0 9.2 9.5 11.2 11.8 11.9 11.6 10.5 10.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24				 7.7 8.4 8.4 10.2 10.9 9.2 6.5 2.5 4.6 7.6 8.4 9.9 11.9 13.0	 3.2 4.0 4.1 5.6 6.4 6.5 2.3 .6 .2 .9 4.1 6.6 8.3 9.3 7.8 4.7	 5.5 6.3 6.4 7.6 8.4 8.0 5.2 1.7 2.2 4.4 6.4 7.5 9.4 10.9	12.2 8.3 13.3 11.9 9.1 10.6 12.6 7.7 4.2 4.9 8.1 10.4 12.9 11.9 14.8 17.9 14.8 17.9 14.0 12.5 14.2 12.1	5.6 4.5 7.2 4.1 2.9 4.0 4.2 1.5 1.1 1.0 2.2 5.1 7.0 9.4 10.1 11.0 11.4 11.3 9.1 7.5 9.7 4.3	6.8 8.7 9.4 6.4 6.3 7.7 5.6 3.3 2.5 3.6 4.8 6.9 8.1 10.3 12.9 14.1 14.5 14.4 10.9 10.1 12.0 6.9	12.4 15.6 14.2 15.2 15.7 13.9 14.3 12.3 12.8 9.7 11.8 14.8 14.8 14.4 12.1 13.4 12.1 12.4	7.6 8.6 10.4 10.8 8.8 8.7 8.2 6.6 6.8 7.2 6.7 7.6 8.3 9.2 10.0 4 9.2 9.4 9.2 8.4 7.2	10.7 11.6 13.0 13.4 11.5 11.1 10.5 9.3 9.3 8.4 9.0 9.2 9.5 11.2 11.8 11.9 10.5 10.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23				7.7 8.4 8.4 10.2 10.9 9.2 6.5 2.5 4.6 7.6 8.4 9.9 11.9 13.0	3.2 4.0 4.1 5.6 6.4 6.5 2.3 .6 2 .9 4.1 6.6 8.3	 5.5 6.3 6.4 7.6 8.4 8.0 5.2 1.7 2.2 4.4 6.4 7.5 9.4 10.9	12.2 8.3 13.3 11.9 9.1 10.6 12.6 7.7 4.2 4.9 8.1 10.4 12.9 11.9 14.8 17.9 19.3 17.4 18.8 17.9	5.6 4.5 7.2 4.1 2.9 4.0 4.2 1.5 1.1 1.0 2.2 5.1 7.0 9.4 11.0 11.4 11.3 9.1 7.5 9.7	6.8 8.7 9.4 6.4 6.3 7.7 5.6 3.3 2.5 3.6 4.8 6.9 8.1 10.3 12.9 14.2 14.1 14.5 14.4	12.4 15.6 14.2 15.2 15.7 13.9 14.3 12.3 12.8 9.7 11.8 12.2 11.8 14.8 14.4 14.1 12.1 12.4	7.6 8.6 10.4 10.8 8.8 8.7 8.2 6.6 6.8 7.2 6.7 7.6 6.7 7.6 8.3 9.2 10.0 10.4 9.2 9.4	10.7 11.6 13.0 13.4 11.5 11.1 10.5 9.3 8.4 9.0 9.2 9.5 11.2 11.8 11.9 11.6 10.5 10.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24				 7.7 8.4 8.4 10.2 10.9 9.2 6.5 2.5 4.6 7.6 8.4 9.9 11.9 13.0	 3.2 4.0 4.1 5.6 6.4 6.5 2.3 .6 .2 .9 4.1 6.6 8.3 9.3 7.8 4.7	 5.5 6.3 6.4 7.6 8.4 8.0 5.2 1.7 2.2 4.4 6.4 7.5 9.4 10.9	12.2 8.3 13.3 11.9 9.1 10.6 12.6 7.7 4.2 4.9 8.1 10.4 12.9 11.9 14.8 17.9 14.8 17.9 14.0 12.5 14.2 12.1	5.6 4.5 7.2 4.1 2.9 4.0 4.2 1.5 1.1 1.0 2.2 5.1 7.0 9.4 10.1 11.0 11.4 11.3 9.1 7.5 9.7 4.3	6.8 8.7 9.4 6.4 6.3 7.7 5.6 3.3 2.5 3.6 4.8 6.9 8.1 10.3 12.9 14.1 14.5 14.4 10.9 10.1 12.0 6.9	12.4 15.6 14.2 15.2 15.7 13.9 14.3 12.3 12.8 9.7 11.8 14.8 14.8 14.4 12.1 13.4 12.1 12.4	7.6 8.6 10.4 10.8 8.8 8.7 8.2 6.6 6.8 7.2 6.7 7.6 8.3 9.2 10.0 4 9.2 9.4 9.2 8.4 7.2	10.7 11.6 13.0 13.4 11.5 11.1 10.5 9.3 8.4 9.0 9.2 9.5 11.2 11.8 11.9 11.6 10.5 10.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27				 7.7 8.4 8.4 10.2 10.9 9.2 6.5 2.5 4.6 7.6 8.4 9.9 11.9 13.0 13.4 12.6 11.9 11.0 8.7	3.2 4.0 4.1 5.6 6.4 6.5 2.3 .6 .2 .9 4.1 5.1 6.8 8.3 9.3 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	 5.5 6.3 6.4 7.6 8.4 8.0 5.2 1.7 2.2 4.4 6.4 7.5 9.4 10.9	12.2 8.3 13.3 11.9 9.1 10.6 12.6 7.7 4.2 4.9 8.1 10.4 12.9 11.9 14.8 17.9 14.8 17.9 14.0 12.5 14.2 12.1 12.3	5.6 4.5 7.2 4.1 2.9 4.0 4.2 1.5 1.1 1.0 9.2 5.1 7.0 9.4 10.1 11.0 11.4 11.3 9.7 4.3 3.2 8.3 9.1	6.8 8.7 9.4 6.4 6.3 7.7 5.6 3.3 2.5 3.6 4.8 6.9 110.3 12.9 14.2 14.1 14.5 14.4 10.9 7.3 11.4 13.1	12.4 15.6 14.2 15.2 15.7 13.9 14.3 12.3 12.8 9.7 11.8 14.8 14.1 13.4 14.1 12.1 12.4 9.9 11.6 11.4 11.3	7.6 8.6 10.4 10.8 8.8 8.7 8.2 6.6 6.8 7.2 6.7 7.6 8.3 9.2 10.0 10.4 9.2 9.4 9.2 8.4 7.6 9.1 18.8 8.7	10.7 11.6 13.0 13.4 11.5 11.1 10.5 9.3 9.3 8.4 9.0 9.2 9.5 511.2 11.8 11.9 11.6 10.5 10.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20				7.7 8.4 8.4 10.2 10.9 9.2 6.5 2.5 4.6 7.6 8.4 9.9 11.9 13.0 13.4 12.6 11.9 11.0 8.7	3.2 4.0 4.1 5.6 6.4 6.5 2.3 .62 .9 4.1 6.6 8.3 9.3 7.6 4.7 2.7	 5.5 6.3 6.4 7.6 8.4 8.0 5.2 1.7 2.2 4.4 6.4 7.5 9.4 10.9 11.4 10.1 7.7 5.9	12.2 8.3 13.3 11.9 9.1 10.6 12.6 7.7 4.2 4.9 8.1 10.4 12.9 11.9 14.8 17.9 14.8 17.9 14.2 12.5 14.2 12.1 12.3	5.6 4.5 7.2 4.1 2.9 4.0 4.2 1.5 1.1 1.0 9.2.2 5.1 7.0 9.4 10.1 11.0 4.3 9.7 4.3 3.2 8.3 9.1 12.3	6.8 8.7 9.4 6.4 6.3 7.7 5.6 3.3 2.5 3.6 4.8 6.9 8.1 10.3 12.9 14.2 14.1 14.5 14.4 10.9 11.2.0 6.9 7.3	12.4 15.6 14.2 15.2 15.7 13.9 14.3 12.3 12.8 9.7 11.8 12.2 11.8 14.4 14.1 13.4 12.1 12.4 12.1 12.4 12.1 12.4 12.1 12.4 11.3	7.6 8.6 10.4 10.8 8.8 8.7 8.2 6.6 6.8 7.2 6.7 7.6.7 7.6.8 3 9.2 10.0 10.4 9.2 9.4 9.1 8.8 8.7	10.7 11.6 13.0 13.4 11.5 11.1 10.5 9.3 8.4 9.0 9.2 9.5 11.2 11.8 11.9 11.6 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20				 7.7 8.4 8.4 10.2 10.9 9.2 6.5 2.5 4.6 7.6 8.4 9.9 11.9 13.0 13.4 12.6 11.9 11.0 8.7	3.2 4.0 4.1 5.6 6.4 6.5 2.3 6.2 .9 4.1 5.1 6.8 8.3 9.3 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	 5.5 6.3 6.4 7.6 8.4 8.0 5.2 1.7 2.2 4.4 6.4 7.5 9.4 10.1 7.7 5.9 9.1	12.2 8.3 13.3 11.9 9.1 10.6 12.6 7.7 4.2 4.9 8.1 10.4 12.9 11.9 14.8 17.9 14.8 17.9 14.0 12.5 14.2 12.1 12.3	5.6 4.5 7.2 4.1 2.9 4.0 4.2 1.5 1.1 1.0 9.2 5.1 7.0 9.4 10.1 11.0 11.4 11.3 9.7 4.3 3.2 8.3 9.1 12.3 11.5 9.3	6.8 8.7 9.4 6.4 6.3 7.7 5.6 3.3 2.5 3.6 4.8 6.9 110.3 12.9 14.2 14.1 114.5 14.4 10.9 7.3 11.4 13.9 13.9 13.9	12.4 15.6 14.2 15.2 15.7 13.9 14.3 12.3 12.8 9.7 11.8 14.8 14.4 14.1 13.4 14.1 12.1 12.4 12.1 12.4 12.1 12.4 12.1 12.4 12.1 12.4 12.1 12.4 12.1 12.4 12.1 12.4 12.1 12.4 12.1 12.4 12.1 12.4 12.1 12.1	7.6 8.6 10.4 10.8 8.8 8.7 8.2 6.6 6.8 7.2 6.7 7.6 7.6 8.3 9.2 10.0 10.4 9.2 9.4 7.6 9.1 8.8 8.7	10.7 11.6 13.0 13.4 11.5 11.1 10.5 9.3 9.3 8.4 9.0 9.2 9.5 511.2 11.8 11.9 11.6 10.5 10.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20				 7.7 8.4 8.4 10.2 10.9 9.2 6.5 2.5 4.6 7.6 8.4 9.9 11.9 13.0 13.4 12.6 11.9 11.0 8.7	 3.2 4.0 4.1 5.6 6.4 6.5 2.3 .62 .9 4.1 5.1 6.6 8.3 7.8 4.7 2.7	 5.5 6.3 6.4 7.6 8.4 8.0 5.2 1.7 2.2 4.4 6.4 7.5 9.4 10.9 11.4 10.1 7.7 5.9 9.1 10.2 8.7 8.9	12.2 8.3 13.3 11.9 9.1 10.6 12.6 7.7 4.2 4.9 8.1 10.4 12.9 11.9 14.8 17.9 14.8 17.9 14.8 17.9 19.3 17.4 18.8 17.9	5.6 4.5 7.2 4.1 2.9 4.0 4.2 1.5 1.1 1.0 9.2 2.2 5.1 7.0 9.4 11.0 11.4 11.3 9.1 7.7 4.3 3.2 8.3 9.1 12.5 12.5	6.8 8.7 9.4 6.4 6.3 7.7 5.6 3.3 2.5 3.6 4.8 6.9 8.1 10.3 12.2 14.1 14.5 14.4 10.9 7.3 11.4 13.1 13.2	12.4 15.6 14.2 15.2 15.7 13.9 14.3 12.3 12.8 9.7 11.8 12.2 11.8 14.4 12.1 12.4 12.4 12.1 12.4 11.6 11.4 11.3	7.6 8.6 10.4 10.8 8.8 8.7 8.2 6.6 6.8 7.2 6.7 7.6 6.7 7.6 8.3 9.2 10.0 10.4 9.2 9.4 9.2 8.4 7.8 9.2 8.7 8.8 9.2 10.0 10.4 9.1 9.1 8.8 9.1 8.8 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	10.7 11.6 13.0 13.4 11.5 11.1 10.5 9.3 9.3 8.4 9.0 9.2 9.5 11.2 11.8 11.9 11.6 10.5 10.7 10.4 9.4 9.4 9.4 9.4 9.7 11.1 9.9

06752260 CACHE LA POUDRE RIVER AT FORT COLLINS, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1 2 3 4 5	13.0 11.7 11.8 13.1 12.7	11.7 10.1 10.0 11.0	12.1 11.1 11.0 11.9 12.0	15.6 16.2 16.6 16.5 15.1	12.7 10.8 12.0 12.0	14.2 13.2 14.1 14.0 13.3	21.1 22.4 21.6 20.9 18.8	15.9 17.6 17.0 17.1 17.0	18.6 19.9 19.6 18.9 18.1	15.6 13.6 17.6 18.0 17.6	12.8 12.9 12.6 14.1 13.2	14.1 13.1 14.7 15.8 15.2
6 7 8 9 10	11.9 11.5 11.0 10.6 12.2	10.8 9.3 10.1 9.4 10.0	11.2 10.4 10.7 9.9 10.9	14.4 16.2 16.4 17.9 18.4	11.1 11.0 12.1 11.9 12.6	12.7 13.3 14.1 14.6 15.2	17.9 19.8 21.8 19.8 17.2	15.3 14.4 16.3 16.5	16.4 16.8 18.9 17.8 16.0	16.9 15.8 16.7 17.4 17.9	13.3 13.2 12.4 12.9 12.8	15.0 14.7 14.6 15.0 15.3
11 12 13 14 15	13.0 12.4 12.7 12.8	10.3 10.7 10.8 10.8	11.6 11.4 11.8 11.6	16.4 18.1 18.3 19.0 20.6	13.0 12.1 12.7 12.4 13.0	14.4 14.9 15.3 15.7 16.8	16.9 17.7 19.3 19.2 20.4	14.1 14.0 14.9 14.9	15.2 15.8 16.9 16.9	17.0 17.8 18.1 18.2 18.1	13.6 13.2 13.3 14.0 14.1	15.4 15.4 15.9 16.4 16.2
16 17 18 19 20	13.4 12.6 14.1 14.6 13.3	10.8 10.9 11.0 12.1 11.6	11.7 11.7 12.3 13.0 12.3	18.5 19.3 16.9 19.2	15.1 14.7 13.4 14.3 13.9	17.0 16.4 16.0 15.6 16.3	18.8 18.6 19.4 18.4 20.5	15.8 16.6 16.2 15.6 15.4	17.4 17.5 17.6 17.0 17.9	16.0 16.6 15.5 14.4 12.3	13.2 11.7 13.0 12.2 10.9	14.4 14.3 14.4 12.8 11.7
21 22 23 24 25	13.9 14.8 15.0 13.7 15.6	11.9 12.2 12.8 12.4 11.8	12.9 13.5 13.8 13.0 13.6	20.7 21.2 20.7 19.9 20.8	14.6 15.5 15.7 15.1 16.0	17.5 18.2 18.2 17.5 18.1	20.3 20.8 22.0 20.9 21.0	16.8 16.3 16.4 16.9 16.6	18.5 18.6 19.2 19.2	11.9 13.0 12.5 15.5 16.6	10.7 11.2 11.9 11.0 12.0	11.2 12.0 12.1 13.0 14.2
26 27 28 29 30 31	17.4 16.0 15.8 17.4 17.5	13.0 13.3 12.7 12.6 12.5	14.9 14.5 14.3 15.0 15.1	21.2 19.8 17.2 19.5 20.9 19.4	15.7 16.6 15.2 16.3 17.1 16.9	18.4 18.1 16.2 17.8 18.9	19.7 19.2 18.9 20.7 16.5 16.4	15.5 14.1 14.2 13.9 12.5 12.4	17.5 16.6 16.5 16.7 14.3	16.1 17.1 15.8 15.9 16.4	13.6 13.3 11.9 11.5 11.9	14.9 15.2 14.0 13.7 14.1
MONTH					10.8	15.9	22.4	12.4	17.5	18.2	10.7	14.3

 $LOCATION.\text{--Lat } 40^{o}34'01'', long 105^{o}01'36'', in NW^{1}/4NE^{1}/4 sec. 20, T.7 N., R.68 W., Larimer County, Hydrologic Unit 10190007, \\ 1.4 \text{ mi west of Interstate 25 on Prospect Street in Fort Collins.}$

DRAINAGE AREA.--1,240 mi².

PERIOD OF RECORD.--January 1978 to current year.

DIS-

DATE	TIME	DIS- CHARGE INST. CUBIC FEET PER SECON (00061	E, SPE- CIFIC CON- DUCT- ANCE ND (US/CI	pH - (STA: AR: M) UNI'	ND- ATU D WAT TS) (DEG	RE DI ER SOI C) (MO	S- (MO VED A	S CALC: TAL DI: G/L SO: S (Mc CO3) AS	S- DI LVED SOI G/L (MC CA) AS		- LAB ED (MG/L /L AS NA) CACO3)
OCT 15	1403	42	381	9.	1 15.	0 14.	0 1	60 4:	3 12	2	120
NOV 13	1331	54	379	9.	1 7.	0 14.	4 1	50 4:	2 11	L	120
DEC 10	1356	82	331	9.	0 5.	5 13.	6 1	40 3	3 10)	105
JAN 15 FEB	1536	42	384	8.	4 0.	0 13.	5 1	60 4	3 12	2 13	126
20 MAR	1033	43	386	8.	6 3.	5 12.	5 1	70 4:	9 12	2	122
12 APR	1116	28	369	8.	9 7.	5 14.	1 1	60 4	4 11	L	121
10 MAY	1351	8.6	668	8.	6 5.	0 13.	0 2	90 7	3 24	1	209
14 JUN	0925	277	102	8.	3 8.	5 11.	7	40 1	2 2	2.5	38
12 JUL	0933	2210	49	7.	7 11.	0 9.	3	20	5.8 1		20
22 AUG	1102	156	141	8.	9 18.	0 10.	1	58 1	5 4	1.2 5	.3 45
14 SEP	1126	566	141	8.	4 16.	0 8.	7				
03	1325	104	238	9.	0 16.	0 11.	9	92 2	3 8	3.1	57
DATE	DI SC (N AS	IS- DLVED MG/L SO4)	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)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	DIS-	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 15							0.05	1.1	0.02	0.15	0.18
NOV 13 DEC							0.03	0.81	<0.02	0.15	0.14
10 JAN							0.02	0.35	0.60	0.15	0.15
15 FEB	5	56	7.2	0.4	11	228	0.01	0.63	<0.02	0.11	0.11
20 MAR							<0.01	1.1	<0.02	0.11	0.15
12 APR							0.02	0.70	<0.02	0.11	0.09
10 MAY							0.04	0.41	0.83	0.21	0.24
14 JUN							<0.01	0.13	<0.01	0.02	0.02
12 JUL							<0.01	0.01	<0.01	<0.01	<0.01
22 AUG	2	20	2.3	0.2	6.3	93	<0.01	0.23	<0.01	0.06	0.04
14 SEP											
03							<0.01	0.30	<0.01	0.05	0.04

06752270 CACHE LA POUDRE RIVER BELOW FORT COLLINS, CO--Continued

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

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	DIS- SOLV (UG/ AS C	COPF DIS ED SOL L (UG	ER, TOT - REG VED ERA -/L (UC CU) AS	ON, FAL COV- ABLE G/L FE) 045)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)
OCT 15						1	270	
NOV 13					<	1	100	
DEC 10					<	1	90	
JAN 15	<5	<1	<1	<1	<	1	120	<1
FEB 20					<	1	100	
MAR 12						1	110	
APR 10						1	200	
MAY						2	300	
JUN								
JUL					<	:1	710	
22 AUG	14.7	<1	<1	<1		1	150	<1
14 SEP					-			
03						4	160	
DA	NE TC RE ER TE (U AS	COV- I ABLE SO IG/L (U MN) AS	DIS- D DLVED S JG/L (B HG) A	CCKEL, DIS- SOLVED UG/L SNI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINO DI SOL' (UG AS	S- VED /L ZN)
OCT 15						<0.2		-
NOV 13						<0.2		_
DEC 10						<0.2	_	_
JAN 15		20	:0.1	<1	<1	<0.2	<	3
FEB 20						<0.2	-	-

MAR 12...

12...
APR
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MAY
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06752280 CACHE LA POUDRE RIVER ABOVE BOX ELDER CREEK NEAR TIMNATH, CO

 $LOCATION.--Lat\ 40^{\circ}\ 33'07",\ long\ 105^{\circ}\ 00'39",\ in\ NE^{1/4}NW^{1/4}\ sec.\ 28,\ T.7\ N.,\ R.68\ W.,\ Larimer\ County,\ Hydrologic\ Unit\ 10190007,\ on\ left\ bank\ 4,000\ ft\ upstream\ from\ Box\ Elder\ Creek,\ 2.0\ mi\ upstream\ from\ Interstate\ Highway\ 25\ bridge,\ and\ 3.8\ mi\ southeast\ of\ New Market and\ New Mar$ intersection of College Avenue and Prospect Street in Fort Collins.

DRAINAGE AREA.--1,245 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD .-- October 1979 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,860 ft above sea level, from topographic map. Prior to March 24, 1994, at site 1,900 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, power developments, diversion for municipal supply, diversions upstream from station for irrigation, and return flow from irrigated areas.

			DISCH	IARGE, CUBI	C FEET PER		WATER YEA MEAN VAL		R 1996 TO SI	EPTEMBER 19	197	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	13 12 10 11 44	15 14 36 35 36	18 14 11 10 9.6	32 30 29 24 18	5.7 5.2 4.5 5.2 7.0	14 20 20 16 4.8	3.8 4.2 4.5 4.8 5.3	37 5.0 6.0 6.3 26	696 1290 2160 2120 2200	154 136 108 130 132	111 64 142 236 208	188 245 208 154 225
6 7 8 9 10	28 15 6.9 9.1	32 25 12 13 36	13 26 27 35 39	12 9.2 15 28 13	7.8 9.2 7.1 7.4 8.3	5.2 5.2 7.3 5.1 5.4	4.5 4.6 4.6 4.9 4.6	69 89 56 117 192	2260 2550 2540 2770 2520	94 137 144 113 58	666 264 142 233 453	259 122 152 189 199
11 12 13 14 15	18 14 11 9.5	31 26 31 53 49	37 28 26 22 20	5.8 5.9 6.3 9.6	13 17 18 15 13	7.2 9.1 11 14 8.6	4.9 4.8 4.6 4.4 4.0	200 230 200 229 240	2370 2240 2100 e2110 e2080	34 56 49 57 32	536 485 498 478 498	167 153 137 91 67
16 17 18 19 20	20 24 8.7 4.3 8.6	53 31 24 52 43	11 12 6.1 5.3 6.8	37 28 14 11 12	15 16 17 16 17	6.4 13 12 7.6 11	4.0 2.9 2.6 2.6 2.4	247 347 400 261 356	e1770 e1790 e1870 e2230 2540	15 28 93 97	425 482 500 385 255	86 98 92 147 266
21 22 23 24 25	9.1 6.4 4.7 11 16	28 27 30 36 28	12 33 37 27 26	11 6.1 4.7 4.2 4.1	30 30 53 53 56	12 11 10 11 8.9	4.2 4.6 4.5 40 38	396 506 676 430 262	2670 2560 2100 1780 1160	90 85 80 120 80	209 174 190 158 71	338 294 285 240 196
26 27 28 29 30 31	27 26 24 25 31 25	23 28 18 13 	25 24 28 25 27 34	4.0 4.0 4.0 4.1 4.6	71 38 20 	5.5 7.6 8.5 4.4 4.1 4.0	6.4 5.2 4.8 4.5 26	152 129 126 122 223 298	718 512 364 273 183	64 49 440 1690 344 337	75 83 77 62 216 238	177 174 183 167 169
TOTAL MEAN MAX MIN AC-FT	494.3 15.9 44 4.3 980	891 29.7 53 12 1770	674.8 21.8 39 5.3 1340	426.6 13.8 37 4.0 846	575.4 20.6 71 4.5 1140	289.9 9.35 20 4.0 575	221.2 7.37 40 2.4 439	6633.3 214 676 5.0 13160	54526 1818 2770 183 108200	5143 166 1690 15 10200	8614 278 666 62 17090	5468 182 338 67 10850
STATIST	rics of MC	ONTHLY MEA	N DATA F	OR WATER Y	EARS 1980	- 1997	, BY WATER	YEAR (WY	()			
MEAN MAX (WY) MIN (WY)	13.8 55.0 1985 3.55 1992	23.4 122 1985 4.45 1991	20.9 114 1985 3.99 1991	23.9 139 1984 3.39 1995	26.9 156 1984 3.76 1992	31.6 159 1980 4.38 1991	113 633 1980 3.45 1991	428 2729 1980 8.66 1982	980 4430 1983 85.8 1989	229 1288 1983 5.94 1987	51.8 278 1997 4.27 1987	32.8 182 1997 3.61 1988
SUMMARY	Y STATISTI	ICS	FOR	1996 CALEN	DAR YEAR	1	FOR 1997 W	ATER YEAR	2	WATER YE	EARS 1980	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL		EAN EAN AN MINIMUM EAK FLOW EAK STAGE AC-FT)		51206.6 140 2140 3.5 5.0	Jun 16 Apr 20 Jan 1		83957.5 230 2770 2.4 3.2 4410 a10.8 166500 483	Jun 9 Apr 20 Apr 15 Jul 29		700 19.4 5460 1.0 2.3 5810 b8.02	Oct : Apr Jun :	1983 1989 21 1983 14 1989 9 1995 21 1983 21 1983
	CENT EXCEE CENT EXCEE			34 7.1			30 4.8			9.4 4.0		

e-Estimated.

a-From floodmarks.

b-Site and datum then in use. Maximum gage height, 10.84 ft, Jul 29, 1997, from floodmarks.

06752280 CACHE LA POUDRE RIVER ABOVE BOX ELDER CREEK NEAR TIMNATH, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1979 to current year.

DATE	TIME	DIS CHARG INST CUBI FEE PER SECC (0006	SE, SPI C. CII CC CON T DUC L ANG DND (US)	FIC N- CT-	pH (STAN ARD UNIT (0040	D- ATT WAT S) (DEC	PER- URE FER G C) 010)	OXYGI DI: SOL' (MG:	S- VED /L)	HAR NES TOT (MG AS CAC	SS CAL S/L S(O3)	CALCI DIS- SOLV (MG/ AS (CUM S F I FED SO FL (M CA) AS	GNE- SIUM, DIS- DLVED IG/L MG)	SODIU DIS- SOLVI (MG, AS 1	- ED /L NA)	ALKA- LINITY LAB (MG/L AS CACO3)
OCT 17	1324	25		674	8.7		8.0	11.	7		290	77	2	:4		-	118
NOV 15	1249	45		554	8.8		3.5	12.	8		230	63	1	.8		-	118
DEC 12	1326	27		750	8.8		4.0	13.	4		330	89	2	27		-	131
JAN 22	1331	5.	2	1620	8.1		3.0	10.	8		790	210	6	5	70		204
FEB 20	1315	18		852	8.7		4.0	13.	4		360	97	2	19		-	147
MAR 12	1336	9.	8	1070	8.6		9.5	12.	5		460	120	3	8		-	155
APR 10	1029	4.	6	1820	8.3		2.0	11.	9		960	250	8	0		-	211
MAY 14	1125	150		317	8.6		11.0	10.	5		120	33		9.9		-	52
JUN 12	1252	2230		59	7.9	:	12.0	9.	4		24	7.	. 0	1.6		-	22
JUL 22	1338	81		241	9.0	:	21.0	10.	2		94	25		7.5	9	. 0	51
AUG 14	1350	490		177	8.5	:	17.0	8.	7		71	20		5.2		-	52
SEP 03	1520	120		352	9.0		18.0	11.	2		140	37	1	.2		-	63
DATE	DI SC (N AS	LFATE IS- DLVED MG/L SO4) 1945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	RI D SO (M AS	DE, IS- LVED G/L F)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	RES AT DE D SO (M	IDS, IDUE 180 G. C IS- LVED G/L) 300)	GI NITI D: SOI (MC AS	IS- LVED G/L	GI NO2- DI SOI (MG AS	IS- LVED G/L	NITRO- GEN, AMMONIA DIS- SOLVEI (MG/L AS N) (00608)	PH PHO I SO (N AS	HOS- DRUS DIS- DLVED MG/L S P)	PHO PHOR ORT DIS SOLV (MG/ AS P	US HO, - ED L)
OCT 17 NOV									0	.07	0	.90	0.02	(0.10	0.	09
15									0	.03	0	. 73	0.04	(0.07	0.	06
DEC 12 JAN									0	.03	0	.78	0.20	(0.06	0.	06
22 FEB	71	10	23	-	1.0	12		1310	0	.03	2	. 3	0.15	(0.05	0.	04
20 MAR									< 0	.01	1	. 4	<0.02	(0.09	0.	15
12 APR									0	.02	1	. 2	0.04	(0.07	0.	08
10 MAY									0	.02	0	. 41	0.17	(12	0.	03
14 JUN									< 0	.01	0	.12	<0.01	(0.01	0.	01
12 JUL									< 0	.01	0	. 05	<0.01	(0.01	<0.	01
22 AUG	į	59	2.9		0.2	6.1		162	< 0	.01	0	. 20	<0.01	(0.02	0.	03
14 SEP																-	-
03									0	.01	0	. 28	<0.01	(0.02	0.	02

06752280 CACHE LA POUDRE RIVER ABOVE BOX ELDER CREEK NEAR TIMNATH, CO--Continued

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)
OCT							
17 NOV					<1	110	
15					<1	100	
DEC 12					<1	90	
JAN					· -		
22 FEB	<5	<1	<1	<1	1	250	<1
20					<1	120	
MAR 12					1	170	
APR					_		
10 MAY					<1	90	
14					2	370	
JUN 12					<1	630	
JUL						030	
22	13.0	<1	<1	<1	1	200	<1
AUG 14					1	370	
SEP					•	1.00	
03					2	170	

DATE	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT					0.0	
17 NOV					<0.2	
15					<0.2	
DEC						
12					<0.2	
JAN 22	60	<0.1	<1	6	<0.2	<3
FEB	00	<0.1	ζ1	0	<0.2	< 3
20					<0.2	
MAR						
12					<0.2	
APR 10					<0.20	
MAY					10.20	
14					<0.20	
JUN					.0.00	
12 JUL					<0.20	
22	20	<0.1	<1	<1	<0.20	15
AUG						
14					<0.20	
SEP 03					<0.20	
03					<0.20	

06752500 CACHE LA POUDRE RIVER NEAR GREELEY, CO

LOCATION.--Lat 40°25'04", long 104°38'22", in NW¹/4 sec.11, T.5 N., R.65 W., Weld County, Hydrologic Unit 10190007, on right bank 25 ft downstream from highway bridge, 2.9 mi east of courthouse in Greeley, and 3.0 mi upstream from mouth.

DRAINAGE AREA.--1.877 mi².

PERIOD OF RECORD.--Streamflow records, March to October 1903, August to November 1904, January 1914 to December 1919, June 1924 to current year. Monthly discharge only for some periods, published in WSP 1310. Water-quality data available, November 1951 to September 1952, August 1954 to August 1956, December 1963 to September 1966, October 1967 to September 1968, October 1970 to September 1982.

REVISED RECORDS.--WSP 1440: 1935, 1938(M), 1942-43. WSP 1730: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,610 ft above sea level, from topographic map. See WSP 1710 or 1730 for history of changes prior to Dec. 14, 1933.

REMARKS.--Records fair except for July 1 to Sept. 9, and estimated daily discharges, which are poor. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, power developments, diversion for municipal supply, diversions upstream from station for irrigation of about 250,000 acres, and return flow from irrigated areas.

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

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

DAILY MEAN VALUES DEC JUN JUL SEP DAY OCT NOV JAN FEB MAR APR MAY AUG e251 e135 e216 e128 e127 e146 e182 e125 e231 e140 e233 2320 e130 e236 e122 e232 e226 e116 e119 e228 e116 e249 e109 e225 e235 e110 e106 e245 e114 e252 e118 e246 e211 e124 e117 e199 e115 e222 2.1 e115 e212 e121 e202 e121 e199 2.4 e115 e198 e114 e203 27 e131 **⊝**194 aa 3 2 1 e122 e188 e124 e190 e175 e123 e132 e137 TOTAL MEAN 67.3 MAX MTN 2.4 2.4 AC-FT STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 1997. BY WATER YEAR (WY) 96.2 MEAN 95.7 54.2 58.6 MAX (WY) 34.5 9.58 9.45 5.43 9.53 MIN 6.63 38.1 13.0 (WY) SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1903 - 1997 ANNUAL TOTAL 77253.3 ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN 27.9 b₂₄ HIGHEST DAILY MEAN Jun 17 Jun 10 Jun 14 1983 ā_{8.0} LOWEST DAILY MEAN Apr Apr 28 Oct ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW 8.3 Apr 21 May Aug 22 1.5 Jun 13 Jun 14 1983 C_{8.92} INSTANTANEOUS PEAK STAGE 8 48 Jun 13 Jun 14 1983 ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS

e-Estimated.

b-Also occurred Apr 29 and May 7.

a-Also occurred Apr 25. c-Maximum gage height, 8.95 ft, Jun 22, 1983.

06754000 SOUTH PLATTE RIVER NEAR KERSEY, CO

LOCATION .-- Lat 40°24'44", long 104°33'46", in NW1/4SW1/4 sec.9, T.5 N., R.64W., Weld County, Hydrologic Unit 10190003, on downstream side of bridge on State Highway 37, 1.9 mi north of railroad in Kersey, and 2.5 mi downstream from Cache la Poudre

DRAINAGE AREA.--9,598 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1901 to December 1903, March 1905 to current year. Monthly discharge only for some periods, published in WSP 1310. Published as "at Kersey" 1901-03. Statistical summary computed for 1976 to current year.

REVISED RECORDS.--WSP 1310: 1902, 1906, 1935(M). WSP 1730: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,575.77 ft above sea level. See WSP 1710 or 1730 for history of changes prior to July 3, 1935.

REMARKS.--Records fair. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of about 888,000 acres, and return flow from irrigated areas.

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

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

						DAIL	Y MEAN VAL	UES				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1190 1070 927 895 872	972 897 895 965 1100	829 848 854 841 825	683 676 672 667 628	994 872 839 751 743	784 e780 e770 758 750	392 404 469 553 e600	1620 1360 1110 887 742	e1230 e2350 4540 5190 6340	1180 831 573 393 324	4610 2960 1900 1400 2490	795 806 1010 891 1030
6 7 8 9	878 858 852 845 847	e1220 1200 1190 1190 1170	827 814 823 846 896	615 572 610 675 686	714 701 693 701 689	742 734 710 688 665	e610 e700 774 665 558	915 1030 1040 1030 943	7240 10700 15200 13700 14500	305 345 328 279 244	6090 8360 4450 2980 2660	1640 1190 1070 1080 1010
11 12 13 14 15	866 858 814 810 803	1080 1050 1030 1000 1030	935 915 922 900 860	628 504 452 e480 e770	694 692 729 703 796	658 658 652 640 635	461 549 648 795 750	1030 1250 1260 1030 886	14300 13500 13700 15600 14000	261 317 349 354 343	3170 4470 4040 3270 2760	887 807 744 742 732
16 17 18 19 20	830 e840 e850 e860 e850	1040 e990 951 993 1020	805 593 566 568 712	817 767 774 790 781	e810 e830 836 732 691	635 642 674 654 641	621 522 433 344 254	893 796 647 620 608	13600 12300 11200 11100 11700	308 291 255 278 482	2180 2270 2120 1760 1320	694 698 763 769 1060
21 22 23 24 25	e840 e850 e870 e850 e850	969 923 905 891 901	899 867 811 705 772	808 750 742 742 726	686 678 e740 e800 781	684 643 577 574 529	222 189 183 368 e3480	532 1010 2130 2440 1750	11900 11400 10100 9020 7210	758 518 412 500 686	1160 1020 901 878 755	1650 1600 1690 2030 1850
26 27 28 29 30 31	915 1120 1010 952 963 962	894 872 867 861 850	695 733 716 684 668 678	709 710 691 753 774 864	770 790 799 	510 494 445 429 410 401	e2900 2360 1750 1560 1600	1490 1420 e1220 e1100 e1130 1150	5710 4410 3010 2270 1730	778 788 1040 4890 4360 4310	612 541 492 429 485 772	1600 1490 1420 1390 1310
TOTAL MEAN MAX MIN AC-FT	27797 897 1190 803 55140	29916 997 1220 850 59340	24407 787 935 566 48410	21516 694 864 452 42680	21254 759 994 678 42160	19566 631 784 401 38810	25714 857 3480 183 51000	35069 1131 2440 532 69560	278750 9292 15600 1230 552900	27080 874 4890 244 53710	73305 2365 8360 429 145400	34448 1148 2030 694 68330
STATIST	TICS OF M	MONTHLY MEA	AN DATA E	OR WATER	YEARS 1976	- 1997,	BY WATER	YEAR (WY	<i>(</i>)			
MEAN MAX (WY) MIN (WY)	861 3388 1985 415 1978	917 2585 1985 488 1978	840 1337 1985 568 1982	813 1434 1984 503 1982	848 1641 1984 540 1978	948 1852 1983 473 1982	1079 3894 1983 144 1982	2458 13060 1980 251 1977	3527 14520 1983 113 1977	1107 5784 1983 183 1994	834 2783 1984 304 1981	818 2079 1984 259 1977
SUMMAR	Y STATIST	rics	FOR	1996 CALE	NDAR YEAR	F	FOR 1997 WA	TER YEAF	2	WATER Y	EARS 1976	- 1997
LOWEST	MEAN F ANNUAL ANNUAL M	IEAN		366102 1000			618822 1695			a ₁₂₅₄ 3631 456		1983 1977
LOWEST ANNUAL INSTAN INSTAN ANNUAL 10 PERC 50 PERC	TANEOUS F	EAN AY MINIMUM PEAK FLOW PEAK STAGE AC-FT) EEDS		8350 143 177 726200 1940 825 382	May 27 Apr 28 Apr 24		15600 183 285 17500 10.40 1227000 3210 839 484	Jun 14 Apr 23 Apr 18 Jun 14 Jun 14	} } 	b ₂₁₅₀₀ c ₆₁ d ₂₂₉₀₀ 11.0 908200 2080 764 315	Apr Apr May	31 1995 26 1982 25 1982 31 1995 31 1995

a-Average discharge for 71 years (water years 1902-03, 1906-74), 777 ft³/s; 562900 acre-ft/yr, prior to completion of Chatfield

Dam.

b-Maximum daily discharge for period of record, 31000 ft³/s, Jun 7, 1921.

c-Minimum daily discharge for period of record, 28 ft³/s, Apr 30, 1955.

d-Maximum discharge and stage for period of record, 31500 ft³/s, May 8, 1973, gage height, 11.73 ft.

06754000 SOUTH PLATTE RIVER NEAR KERSEY, CO--Continued (National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--1950 to 1953, April 1993 to September 1995, May to September 1997.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
MAY 09	1020	1130	651	8.0	12.5	8.8	210	47	22	44
JUN 11	1105	14200	340	7.8	15.5	7.5	83	21	7.5	18
JUL 23	1050	424	1330	8.0	22.0	7.4	480	110	52	100
AUG 22	1440	1000	1110	8.1	24.0	8.1	380	87	39	84
SEP 10	0945	990	1170	8.2	18.5	8.2	380	88	40	90
DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR-a BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-b LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
MAY 09	3.3	117	96	170	26	0.6	11	431	0.03	2.6
JUN 11	2.0	67	55	73	12	0.4	7.3	216	0.01	0.76
JUL 23	6.0	216	177	400	48	0.9	11	971	0.08	5.2
AUG 22	5.6	196	161	310	39	0.8	11	782	0.06	4.4
SEP 10	6.2	218	179	330	46	0.9	11	802	0.03	4.5
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)
MAY 09	0.11	1.0	0.4	0.45	0.25	0.26	88	14		
JUN 11	0.03	0.7	0.3	0.18	0.11	0.13	140	10	6.5	3.8
JUL 23	0.10	1.4	0.4	0.54	0.35	0.29	<3	34	4.4	2.8
AUG 22	0.05	1.0	0.4	0.51	0.31	0.31	<3	13	4.2	1.7
SEP 10	0.10	1.1	0.4	0.57	0.40	0.39	<3	9	4.0	0.3

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

06754000 SOUTH PLATTE RIVER NEAR KERSEY, CO--Continued

(National Water-Quality Assessment Program station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-C MENT, SUS- PENDED (MG/L) (80154)		
MAY					
09 JUN	1020	1130	186	569	
11	1105	14200	497	19100	53
JUL 23 AUG	1050	424	125	143	95
22	1440	1000	103	278	83
SEP 10	0945	990	97	259	81

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

06758500 SOUTH PLATTE RIVER NEAR WELDONA, CO

 $LOCATION.--Lat~40^{o}19'19",~long~103^{o}55'17",~in~SW^{1}/_{4}SW^{1}/_{4}~sec.7,~T.4~N.,~R.58~W.,~Morgan~County,~Hydrologic~Unit~10190003,~on~left~bank~400~ft~downstream~from~bridge~on~State~Highway~144,~2.8~mi~southeast~of~Weldona,~and~4.2~mi~upstream~from~Bijou~Creek.$

DRAINAGE AREA.--13,245 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD .-- October 1952 to current year. Statistical summary computed for 1976 to current year.

REVISED RECORDS.--WSP 1710: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,307.80 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, and those above 1,620 ft³/s, which are fair. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, power developments, ground-water withdrawals, and diversions for irrigation, and return flow from irrigated areas.

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

			DISC	CHARGE, CU	BIC FEET PER), WATER YEA LY MEAN VAL		ER 1996 TC	SEPTEMBER 1	997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1040	223	200	803	630	570	200	877	651	1340	3190	327
2	1020	167	190	811	708	566	147	883	714	814	2980	367
3	925	150	192	813	709	559	123	762	1740	593	1880	441
4	768	145	187	813	672	590	e76	602	2970	408	1240	629
5	698	146	189	797	668	463	81	435	3070	282	948	658
6	639	225	181	772	672	456	85	319	3540	265	1930	917
7	627	261	180	751	669	426	324	340	3990	233	4350	1130
8	563	247	183	721	643	375	314	611	5660	309	4710	827
9	506	231	187	704	624	347	457	890	8380	303	2520	805
10	481	216	204	720	624	323	522	903	9440	262	2010	852
11	472	217	220	738	622	295	553	759	9430	240	1930	849
12	444	190	247	509	636	281	625	797	9820	207	2180	883
13	424	167	248	324	633	276	709	824	9130	272	3070	811
14	402	148	246	497	588	272	754	e590	9070	302	2510	764
15	390	141	298	800	577	271	691	519	11000	298	2080	760
16	377	142	618	1070	579	272	e490	577	10200	291	1640	733
17	370	142	727	1050	592	275	335	615	9760	264	1370	702
18	370	215	444	989	614	388	271	566	8460	240	1390	729
19	382	314	401	1070	609	420	313	480	7130	272	1280	808
20	385	297	698	1100	626	422	264	455	6970	334	1130	880
21	389	308	955	1200	703	398	165	430	7410	498	834	1160
22	419	298	1050	1220	682	405	190	472	8000	469	691	1550
23	485	273	1030	1070	658	419	250	1120	7990	342	592	1520
24	461	258	1000	914	e610	435	255	1670	7200	328	463	1710
25	379	256	983	808	607	439	470	948	6750	357	415	1860
26 27 28 29 30 31	269 308 374 325 278 269	257 250 238 234 221	885 875 939 920 834 793	746 702 711 701 677 621	623 576 583 	e390 306 299 264 253 232	2040 1420 1070 648 645	673 634 647 604 581 561	5660 4540 3480 2450 1820	410 463 520 1270 4600 2830	339 261 182 231 248 276	1680 1500 1410 1330 1300
TOTAL	15239	6577	16304	25222	17737	11687	14487	21144	186425	19616	48870	29892
MEAN	492	219	526	814	633	377	483	682	6214	633	1576	996
MAX	1040	314	1050	1220	709	590	2040	1670	11000	4600	4710	1860
MIN	269	141	180	324	576	232	76	319	651	207	182	327
AC-FT	30230	13050	32340	50030	35180	23180	28730	41940	369800	38910	96930	59290
							, BY WATER					
MEAN	531	482	575	722	672	535	792	1775	2566	843	642	681
MAX	3119	2298	1266	1443	1562	1494	3226	10130	12310	5121	2208	2118
(WY)	1985	1985	1986	1984	1984	1983	1983	1980	1983	1995	1984	1984
MIN	134	100	115	259	231	132	119	183	101	191	237	123
(WY)	1977	1977	1995	1995	1978	1978	1982	1981	1977	1981	1981	1977
SUMMARY	STATIST	ICS	FOR	1996 CALE	NDAR YEAR	1	FOR 1997 WA	TER YEAR		WATER YE	ARS 1976	- 1997
LOWEST		EAN		240604 657 3840	May 28		413200 1132 11000	Jun 15		^a 900 2995 231 e,b ₁₆₃₀₀	Jun	1983 1977 11 1995
LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC	DAILY ME SEVEN-DA FANEOUS P	AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		104 132 477200 1220 497 186	Mar 23 Mar 19		e76 135 11600 8.42 819600 2120 593 224	Apr 4 Mar 31 Jun 15		35 44 c ₁₆₇₀₀ 9.58 652300 1610 457 161	Jan Jun Jun	1 1995 2 1976 29 1983 29 1983

e-Estimated

e-Estimated.
a-Average discharge for 22 years (water years 1953-74), 572 ft³/s; 414400 acre-ft/yr, prior to completion of Chatfield Dam.
b-Maximum daily discharge for period of record, 20800 ft³/s, May 9, 1973.
c-Maximum discharge and stage for period of record, 26800 ft³/s, May 8, 1973, gage height, 11.68 ft, from rating curve extended above 16000 ft³/s.

06758500 SOUTH PLATTE RIVER NEAR WELDONA, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1967 to September 1968, October 1971 to current year.

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	(STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C) (00010)	DIS- SOLVE (MG/L	UM-MF D (COLS./) 100 ML)	KF AGAR (COLS. PER 100 ML)	TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
DEC 31	1105	712	1490	8.5	3.5	12.8	K32	310	510	120
MAR 26	1106	403	1570	8.5	11.5	12.7	<4	K17	530	130
JUL 15	1106	311	1430	8.5	24.0	11.2	59	69	470	100
SEP 18	1100	727	1380	8.4	18.5	10.4	K63	120	490	110
DATE	DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	DIS- SOLVED (MG/L AS K)	LINITY LAB (MG/L AS CACO3)	DIS- SOLVE (MG/L AS SO4	DIS-	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
DEC 31 MAR	50	120	2	6.3	233	440	66	1.1	12	1030
26 JUL	50	130	2	7.2	240	470	79	1.0	11	1130
15 SEP	51	130	3	7.1	194	460	64	1.0	9.3	1030
18	49	110	2	6.8	223	420	57	1.0	12	986
DATE	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	DIS- SOLVED (TONS PER AC-FT)	SOLVED (TONS PER DAY)	GEN, NITRITE DIS- SOLVED (MG/L AS N)	MONIA + ORGANIC TOTAL (MG/L AS N)	GEN, NO2+NO DIS- SOLVE (MG/L AS N)	GEN, 3 AMMONIA DIS- D SOLVED (MG/L	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
DEC 31	987	1.40	1980	0.05	1.0	6.4	0.36	0.68	0.52	0.50
MAR 26	1050	1.54	1230	<0.01	0.5	5.3	0.02	0.44	0.33	0.31
JUL 15	959	1.40	867	0.04	1.2	3.3	<0.01	0.19	0.08	0.08
SEP 18	932	1.34	1940	0.01	0.8	4.9	<0.01	0.37	0.27	0.27
DAT	BARI DIS SOLV E (UG AS	FD SOL FL (UG BA) AS	M, BOR - DI VED SOL /L (UG BE) AS	VED SOI J/L (UC B) AS	MIUM MI IS- DI LVED SO B/L (U CD) AS	S- D LVED SO G/L (1 CR) A	LVED SO UG/L (U	S- DI LVED SOI G/L (UC CU) AS	S- DI LVED SOI G/L (UG FE) AS	S- VED }/L PB)
DEC 31	41	. <0	.5 25	0 <	<1	6	<3 <	10	<3 <1	.0
MAR 26	43	<0	.5 25	0 <	<1	<5	<3 <	10	<3 <1	.0
JUL 15	63	<0	.5 25	2 <	<1	<5	<3 <	10	<3 <1	.0
SEP 18	55	<0	.5 25	0	1	<5	<3 <	10	<3 1	.0
DAT	SOL E (UG	IUM NES S- DI VED SOL J/L (UG LI) AS	E, DEN S- DI VED SOL /L (UG MN) AS	VED SOI J/L (UC MO) AS	KEL, NI S- D LVED SO G/L (U	IS- LVED S G/L (1 SE) A	LVER, T DIS- D OLVED SO UG/L (U	G/L (UC SR) AS	JM, ZIN IS- DI LVED SOI E/L (UG V) AS	S- LVED S/L ZN)
DEC 31	າ	3 7	<10	<10	3	<	1 1400	<6	5 7	
MAR 26		3 9		<10 10	3					
JUL										
15 SEP				<10	3					
18	3	5	<10	<10	3	<	1 1400	<6	5 7	

K-Based on non-ideal colony count.

06759910 SOUTH PLATTE RIVER AT COOPER BRIDGE, NEAR BALZAC, CO

LOCATION.--Lat 40°21'23", long 103°31'39", in SW¹/4NE¹/4 sec.33, T.5 N., R.55 W., Morgan County, Hydrologic Unit 10190012, on left bank 0.7 mi downstream from North Sterling Canal, 1.3 mi downstream from Beaver Creek, and 4.3 mi northeast of Snyder.

DRAINAGE AREA.--16,852 mi² (Area at downstream site used prior to October 1987).

PERIOD OF RECORD.-October 1987 to current year. Records prior to water year 1993 can be obtained from the Colorado Division of Water Resources. Statistical summary computed for 1993 to current year. Water-quality data available, April 1993 to September 1995.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,140 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, ground-water withdrawals and diversions above station for irrigation.

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

⁹⁰ PERCENT EXCEEDS e-Estimated.

a-Also occurred Dec 31, 1994.

06764000 SOUTH PLATTE RIVER AT JULESBURG, CO

LOCATION (REVISED).--Lat 40°58'46", long 102°15'15", in NW¹/₄NE¹/₄ and NE¹/₄SE¹/₄ (two channels) sec.33, T.12 N., R.44 W., Sedgwick County, Hydrologic Unit 10190018, on left bank of channel 4 (left channel) 215 ft downstream from bridge, on right bank of channel 2, 5 ft downstream from bridge on U.S. Highway 385, and on left bank of channel 1, 5 ft upstream from bridge on U.S. Highway 385, 0.9 mi southeast of Julesburg, 3.0 mi upstream from Colorado-Nebraska State line, and 8 mi downstream from Lodgepole Creek.

DRAINAGE AREA.--23,193 mi².

PERIOD OF RECORD.--April 1902 to current year. Monthly discharge only for some periods, published in WSP 1310. Published as 'near Julesburg" 1903-8, 1915-16, and as "at Ovid" 1922-24. Water-quality data available, October 1945 to September 1995.

REVISED RECORDS.--WSP 1310: 1902, 1906-7, 1948(P). WSP 1440: 1903-4. WDR CO-86-1: Drainage area.

GAGE.--Three water-stage recorders with satellite telemetry. Datum of gages is 3,446.76 ft above sea level. See WSP 1710 or 1730 for history of changes prior to Oct. 1, 1956. Since Oct. 1, 1956, water-stage recorders on channels nos. 2 and 4. Channel no. 2: Oct. 1, 1956 to Sept. 22, 1965, at site 300 ft downstream at present datum. Channel no. 4: Oct. 1, 1956 to Dec. 10, 1958, at site 135 ft downstream at present datum. Since May 11, 1973, supplementary water-stage recorder on channel no. 2 at bridge 800 ft upstream at same datum. Since Aug. 16, 1996, water-stage recorder on channel no. 1; satellite telemetry installed Oct. 24, 1996.

REMARKS .-- Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of 1,200,000 acres upstream from station, and return flow from irrigated areas.

COOPERATION .-- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey. DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

	DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e1440 e1390 e1350 e1360 e1370	201 194 192 193 187	336 342 335 325 334	e938 e943 e911 e871 e803	e821 e777 e752 e745 e763	e1040 e1060 e983 937 923	433 418 397 393 392	180 177 168 145 124	234 211 310 818 1200	2700 2140 1710 1330 997	4970 3580 3020 2720 2360	185 155 132 121 115
6 7 8 9 10	e1350 e1220 e1160 e1080 e1040	184 177 171 172 174	347 350 347 365 389	e777 e740 e701 e649 e580	e718 e684 e651 e647 e631	e917 e903 e809 e781 751	344 321 330 e323 e293	87 84 77 67 68	e2070 e2600 3160 3780 4900	806 706 548 340 245	2380 2100 2000 3020 3430	127 148 157 e215 e410
11 12 13 14 15	e991 e947 e903 e842 e907	168 164 163 157 156	400 400 404 409 378	e512 e407 e404 e404 e429	e633 e626 e624 e648 e654	688 641 618 587 e539	313 353 412 474 549	66 70 79 76 76	6400 7860 8650 8580 e9200	199 239 191 132 112	2770 2430 2180 2150 2450	438 448 474 513 544
16 17 18 19 20	e895 e692 e603 e498 e446	158 147 154 210 320	365 e354 e353 e378 e405	e455 e510 e621 e792 e963	e648 e671 e678 e703 e702	537 e517 506 354 277	578 e519 e517 424 316	70 56 53 51 48	e8580 e8400 e9120 e9500 e9110	110 105 100 101 97	2320 2020 1850 1680 e1480	560 532 520 486 496
21 22 23 24 25	e434 e444 e467 e458 380	339 337 342 332 352	e457 e484 e507 e534 e606	e1080 e1140 e1130 e1130 e1100	e782 e883 e940 e975 e976	303 336 e329 e300 271	250 200 190 162 142	46 46 50 54 93	e8530 e7490 e6980 e7190 e7040	93 81 73 70 68	e1330 e1040 891 856 717	541 e634 e770 920 1030
26 27 28 29 30 31	321 295 273 271 232 211	349 349 e365 e372 e361	e645 e725 e783 e841 e843 e878	e1010 e1010 e961 e926 e890 e859	980 991 e1010 	e350 484 531 510 481 463	136 149 e157 161 189	538 766 545 358 297 338	e6980 6490 5180 4190 3390	71 73 72 77 82 1550	625 567 537 e402 269 210	1100 1210 1310 1260 1170
TOTAL MEAN MAX MIN AC-FT	24270 783 1440 211 48140	7140 238 372 147 14160	14619 472 878 325 29000	24646 795 1140 404 48890	21313 761 1010 624 42270	18726 604 1060 271 37140	9835 328 578 136 19510	4953 160 766 46 9820	168143 5605 9500 211 333500	15218 491 2700 68 30180	58354 1882 4970 210 115700	16721 557 1310 115 33170
					YEARS 1902		•	·	•			
MEAN MAX (WY) MIN (WY)	299 2427 1985 5.85 1904	346 2358 1985 23.0 1911	405 1371 1985 18.8 1912	516 1566 1970 89.9 1965	606 1864 1930 78.9 1935	555 2200 1939 56.9 1904	551 2808 1983 17.3 1904	1051 9922 1980 24.1 1911	1507 12200 1983 8.33 1910	312 5059 1983 2.15 1903	172 1882 1997 2.52 1902	243 1964 1984 5.60 1903
SUMMAR	Y STATIST	CICS	FOR	1996 CALE	ENDAR YEAR		FOR 1997	WATER YEAR		WATER Y	EARS 1902	- 1997
LOWEST	MEAN F ANNUAL ANNUAL M	IEAN		209243 572 2850	Sep 23		383938 1052 e ₉₅₀₀	Jun 19		550 2882 76.3 30800		1983 1956 16 1921
HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW				e ₄₀	Aug 1 Jul 27		a46 e,c ₉₆₃₀	May 21 May 18 Jun 18		b.0 .0 37600	00 Aug 0 Jul Jun	18 1902 25 1903 20 1965
INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				415000 1190 423 86				determined		d _{10.4} 398700 1130 228 28	4 Jun	20 1965

e-Estimated

e-Estimated. a-Also occurred May 22. b-Also occurred Aug 19-20, 1902, and Jul 25 to Aug 7, 1903. c-Estimated instantaneous peak flow for all channels. d-From floodmarks in gage well.

06823000 NORTH FORK REPUBLICAN RIVER AT COLORADO-NEBRASKA STATE LINE

LOCATION.--Lat 40°04'10", long 102°03'05", in SE¹/4 NW¹/4 sec.10, T.1 N., R.42 W., Dundy County, Nebraska, Hydrologic Unit 10250002, on right bank 100 ft east of Colorado-Nebraska State line, 9.5 mi upstream from confluence with Arikaree River, and at mile 448.

DRAINAGE AREA..-2,370 mi², of which about 174 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--October 1930 to current year. Prior to October 1932, published as North Fork of Arikaree River at Colorado-Nebraska State line. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1240: 1947(M). WSP 1390: 1934. WDR CO-94-1: Drainage area.

GAGE.--Water-stage recorder. Steel piling control since January 1965. Datum of gage is 3,336.09 ft above sea level. Prior to Oct. 17, 1934, nonrecording gage at present site and datum.

REMARKS.--Records fair except for estimated discharges and period Oct. 26 to Nov. 5, which are poor. Natural flow affected by diversion in Haigler Canal for irrigation of about 2,700 acres in Colorado and Nebraska.

.....

		1	DISCHAR	GE, CUBIC	FEET PER S		/ATER YEAR MEAN VALU		R 1996 TO	SEPTEMBER	1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	32 33 40 41 41	35 38 41 42 40	51 52 53 51 57	51 51 50 49 46	39 e39 e39 e39 e38	50 50 49 48 45	49 52 53 52 51	51 49 47 44 21	12 16 39 41 39	7.0 7.0 7.0 6.8 6.6	18 12 9.2 14 74	8.0 7.8 8.3 9.2 9.1
6 7 8 9 10	41 31 29 40 39	36 37 42 43	52 52 52 53 51	e44 e43 e42 44 47	e37 e37 e36 e36 e36	45 45 44 44 43	50 53 57 56 56	13 11 11 10 10	35 25 22 28 28	6.8 7.0 7.3 7.2 6.0	86 69 48 22 16	8.7 16 18 16 15
11 12 13 14 15	39 41 41 36 36	44 44 45 44	50 49 50 50	47 e47 e48 e49 e49	e36 e37 e38 e39 39	43 44 45 43 42	57 58 58 57 56	10 9.9 9.6 9.6 9.2	28 27 27 27 26	5.6 5.9 6.3 6.5 6.1	16 19 19 19 23	13 12 12 15 16
16 17 18 19 20	29 57 57 46 45	46 50 46 47 47	51 e45 e44 e44 e45	e46 e44 e44 e45 e45	48 53 52 52 52	45 46 45 44 43	56 57 57 58 56	9.1 9.1 9.1 9.1 8.9	26 24 18 13 19	6.4 4.0 4.4 5.0 6.6	23 23 25 25 25	9.0 8.4 7.6 15
21 22 23 24 25	45 40 41 41 42	48 49 51 51 49	e45 e44 e43 e43 e42	e43 e42 e41 41 e38	50 50 50 52 53	41 40 40 39 38	54 53 50 51 51	8.9 9.4 26 18 16	8.7 7.1 7.2 6.8	7.2 7.2 7.0 5.6 5.4	24 27 24 22 21	8.7 9.1 12 12
26 27 28 29 30 31	47 46 37 34 32 34	50 53 53 52 52	e42 e43 e46 e47 e49 50	e37 e37 e37 e37 e38 e38	53 53 52 	37 38 44 42 46 47	50 48 48 50 49	23 15 14 15 20 31	8.3 7.2 6.9 6.7 6.1	6.4 7.2 7.2 7.8 7.3	16 13 9.7 9.4 9.4 8.2	10 9.6 8.2 7.0 5.1
TOTAL MEAN MAX MIN AC-FT	1233 39.8 57 29 2450	1362 45.4 53 35 2700	1496 48.3 57 42 2970	1360 43.9 51 37 2700	1235 44.1 53 36 2450	1355 43.7 50 37 2690	1603 53.4 58 48 3180	556.9 18.0 51 8.9 1100	596.0 19.9 41 6.1 1180	216.8 6.99 23 4.0 430	768.9 24.8 86 8.2 1530	328.8 11.0 18 5.1 652
MEAN MAX (WY) MIN (WY)	37.2 67.1 1963 11.1 1979	57.0 83.5 1957 27.0 1989	DATA F0 61.0 74.7 1954 40.5 1993	60.5 73.4 1953 39.4 1979	62.5 76.8 1960 44.1 1997	- 1997, 65.0 85.8 1960 43.7 1997	58.1 85.7 1980 23.5 1972	YEAR (WY 42.2 104 1951 11.0 1992	35.2 113 1962 12.2 1952	19.0 93.8 1962 5.36 1978	19.0 72.4 1950 4.12 1940	26.6 128 1951 5.78 1978
SUMMARY	STATIST	ICS	FOR :	1996 CALEN	IDAR YEAR	F	OR 1997 WA	TER YEAR	-	WATER YE	EARS 1935	- 1997
ANNUAL HIGHEST LOWEST HIGHEST LOWEST	SEVEN-D			76 a2.4 2.7	Feb 6 Sep 12 May 19		12111.4 33.2 86 4.0 5.5 93	Aug Jul Jul Aug		45.1 65.3 30.0 761 1.7 2.3	May Jul Aug	1951 1979 15 1951 11 1938 5 1940 28 1947
INSTANTA ANNUAL 10 PERCE 50 PERCE 90 PERCE	ANEOUS RUNOFF ENT EXC	PEAK STAGE (AC-FT) EEDS EEDS EEDS	:	25550 54 41 9.7			b _{1.27} 24020 52 39 7.3	Aug	6	5.9 32640 72 50 9.0	92 Apr	28 1947

e-Estimated.

a-Also occurred Sep 13.

b-Maximum gage height, 3.78 ft, Jan 12, 1997, backwater from ice.

07079300 EAST FORK ARKANSAS RIVER AT HIGHWAY 24 NEAR LEADVILLE, CO

LOCATION .-- Lat 39°16'21", long 106°18'21", in NW1/4NW1/4 sec. 14, T.9 S., R.80 W., Lake County, Hydrologic Unit 11020001, on right bank 20 ft downstream from U.S. Highway 24, 0.35 mi downstream from Leadville Mine Drainage Tunnel, 1.5 mi northwest of Leadville, and 2.2 mi upstream from Tennessee Creek.

DRAINAGE AREA.--49.9 mi².

PERIOD OF RECORD.--May 1990 to current year. Water-quality data available, May 1990 to September 1996.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,900 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions (see elsewhere in this report). Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	21 21 21 20 20	15 17 15 16 15	e15 e16 e20 e19 e18	e9.2 e8.6 e8.2 e8.0 e7.9	e12 e12 e12 e13 e13	e13 e14 e14 e13 e13	15 14 15 15	19 18 18 21 27	305 464 371 627 730	193 175 170 162 158	82 84 76 73 84	42 38 37 36 36	
6 7 8 9 10	19 18 17 17	15 18 e17 15 e15	e16 e15 e14 e14 e14	e7.8 e7.8 e7.7 e7.8 e7.8	e14 e15 e16 e16 e15	e13 e13 e12 11 e13	15 16 14 14 14	31 35 38 45 58	718 739 811 403 331	145 135 137 124 127	111 109 74 77 84	36 35 33 31 29	
11 12 13 14 15	17 17 17 17 16	e15 15 15 15 15	e14 e13 e14 e16 e15	e8.0 e8.5 e8.5 e8.2 e8.4	e15 e15 e15 e14 e13	e12 e12 13 e12 12	14 16 14 14	67 65 65 74 83	301 306 312 324 298	126 118 110 105 103	79 72 71 76 63	31 33 32 32 31	
16 17 18 19 20	18 18 19 18	15 15 15 15 15	e15 e16 e14 e15 e15	e8.6 e8.8 e9.0 e9.0	e13 e13 e12 e12 e12	11 11 12 11 13	14 15 16 18 19	109 130 146 162 189	266 260 277 384 390	104 98 100 107 100	58 55 55 53 50	31 30 29 28 29	
21 22 23 24 25	19 e18 17 16 16	15 15 15 15 15	e15 e14 e13 e13 e13	e10 e10 e10 e10 e10	e12 e12 e12 e12 e13	13 14 14 14 14	18 16 16 17 16	191 199 172 178 166	372 354 308 264 236	92 91 94 89 86	46 43 42 41 48	30 31 29 29 27	
26 27 28 29 30 31	16 16 16 16 17 16	e16 e16 e15 e15 e14	e12 e12 e11 e10 e9.4 e9.4	e10 e11 e11 e11 e12 e12	e13 e13 e13	13 14 14 15 15	17 19 21 20 19	149 126 113 124 147 184	222 211 200 200 198	79 81 86 91 91	52 52 49 44 40 41	27 27 26 25 24	
TOTAL MEAN MAX MIN AC-FT	549 17.7 21 16 1090	459 15.3 18 14 910	439.8 14.2 20 9.4 872	284.6 9.18 12 7.7 565	372 13.3 16 12 738	402 13.0 15 11 797	479 16.0 21 13 950	3149 102 199 18 6250	11182 373 811 198 22180	3569 115 193 79 7080	1984 64.0 111 40 3940	934 31.1 42 24 1850	
							BY WATER Y						
MEAN MAX (WY) MIN (WY)	18.1 22.9 1996 15.1 1995	13.9 18.1 1996 10.8 1992	11.9 15.4 1996 10.1 1992	10.4 13.0 1996 9.17 1995	10.2 13.3 1997 7.10 1993	10.3 13.0 1997 8.74 1995	13.9 19.8 1996 10.5 1993	97.9 205 1996 38.4 1995	250 404 1996 146 1992	101 266 1995 42.2 1994	41.4 75.1 1995 23.5 1994	24.8 32.2 1995 19.3 1994	
SUMMARY	STATISTIC	CS	FOR	1996 CALEN	DAR YEAR	F	OR 1997 WAT	ER YEAR		WATER YEA	ARS 1990	- 1997	
SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				26439.8 72.2 670 e,a9.4 10 52440 258 18	Jun 9 Dec 30 Feb 3		23803.4 65.2 811 67.7 5.8 1010 4.23 47210 176 17	Jun 8 Jan 8 Jan 4 Jun 8 Jun 8		52.0 73.0 34.5 811 6.0 b_06.7 1010 4.23 37660 148 18 9.5	Jun Dec Feb Jun Jun	1996 1994 8 1997 9 1994 8 1993 8 1997 8 1997	

e-Estimated. a-Also occurred Dec 31. b-From rating curve extended above 520 ${\rm ft}^3/{\rm s}$.

07081200 ARKANSAS RIVER NEAR LEADVILLE, CO

LOCATION.--Lat 39°15'26", long 106°20'35", in NW1/4NW1/4 sec. 21, T.9 S., R.80 W., Lake County, Hydrologic Unit 11020001, on right bank, 500 ft downstream from confluence of East Fork Arkansas River and Tennessee Creek, 0.5 mi downstream from highway bridge, and 2.8 mi northwest of Leadville.

DRAINAGE AREA.--98.8 mi².

PERIOD OF RECORD.--October 1967 to September 1983. April 1990 to current year. Water-quality data available, May 1990 to

REVISED RECORDS.--WDR CO-91-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,730 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions from Colorado River Basin enters above this station (see elsewhere in this report). Small diversions upstream for irrigation and municipal use, amounts unknown. Several measurements of water temperature and specific conductance were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	33 31 34 37 36	26 27 26 26 25	e21 e20 e19 e19 e19	e18 e17 e17 e17 e17	e19 e19 e20 e19 e18	e15 e15 e14 e14 e14	25 23 24 24 23	38 34 34 44 69	524 661 687 727 858	308 271 256 241 240	129 122 113 103 159	71 65 63 61 59	
6 7 8 9 10	33 32 31 31 30	25 22 26 24 24	e19 e19 e18 e18 e18	e16 e16 e16 e16 e16	e18 e18 e18 e18	e14 e14 e14 e14 e14	e23 23 21 21 20	96 125 155 217 256	974 899 1120 1070 958	221 203 206 185 190	208 277 212 182 217	58 59 54 50 48	
11 12 13 14 15	30 29 29 29 28	e24 24 24 24 24	e18 e19 e20 e21 e21	e16 e16 e17 e18 e18	e18 e18 e18 e18	e14 e16 e15 e15 e15	19 20 18 18	198 185 176 189 197	885 803 792 736 723	185 187 168 154 147	222 196 193 229 187	49 51 50 49 47	
16 17 18 19 20	29 29 29 33 34	25 28 27 26 27	e21 e22 e22 e21 e21	e18 e19 e19 e18 e18	e18 e17 e17 e17 e17	15 15 15 16 19	21 27 33 40 49	229 268 317 328 362	673 650 633 706 761	149 139 140 152 144	162 150 148 144 115	48 47 44 43 44	
21 22 23 24 25	e32 e30 29 28 29	25 25 25 26 25	e20 e21 e22 e21 e20	e18 e18 e18 e19 e19	e17 e17 e17 e16 e16	20 21 23 23 22	52 42 38 36 32	331 398 334 323 306	824 757 751 657 541	127 123 132 121 114	69 66 74 72 78	45 47 47 44 41	
26 27 28 29 30 31	28 27 27 28 26 26	e24 e24 e24 e23 e23	e21 e21 e21 e20 e19	e19 e19 e19 e19 e19 e19	e16 e16 e15 	21 23 24 25 23 24	33 34 42 43 40	270 219 202 270 375 396	425 392 361 333 327	102 108 127 159 150 148	87 83 78 69 66	40 40 38 36 35	
TOTAL MEAN MAX MIN AC-FT	937 30.2 37 26 1860	748 24.9 28 22 1480	621 20.0 22 18 1230	549 17.7 19 16 1090	491 17.5 20 15 974	546 17.6 25 14 1080	882 29.4 52 18 1750	6941 224 398 34 13770	21208 707 1120 327 42070	5297 171 308 102 10510	4279 138 277 66 8490	1473 49.1 71 35 2920	
STATIST	CICS OF MO	NTHLY MEA	N DATA F	OR WATER	YEARS 1968	- 1997,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	26.4 38.3 1971 16.5 1978	21.0 28.9 1971 11.6 1977	16.4 21.7 1983 11.6 1978	14.6 19.0 1996 9.15 1977	14.3 20.5 1973 7.93 1978	14.9 20.8 1971 8.82 1974	29.1 52.9 1989 12.7 1970	168 412 1996 55.3 1981	360 707 1997 114 1977	139 382 1995 35.9 1977	61.5 138 1997 23.8 1977	34.5 55.8 1982 16.7 1974	
SUMMARY	STATISTI	CS	FOR :	1996 CALEI	NDAR YEAR	F	OR 1997 W	ATER YEAR		WATER YEA	ARS 1968	- 1997	
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT		AN A		39605 108 782 e,a ₁₈ 18	Jun 6 Jan 10 Jan 8		1120 b14 d1360 4.38	Jun 8 Mar 3 Mar 3 Jun 9 3 Jun 9		76.2 120 32.4 1120 ^C 7.0 1360 4.38	Jun Feb Feb Jun Jun	1997 1977 8 1997 3 1978 3 1978 9 1997 9 1997	
10 PERC 50 PERC	ENT EXCEE ENT EXCEE ENT EXCEE	DS DS		395 30 19			327 29 17			220 26 13			

e-Estimated.

a-Also occurred Jan 11-14, Jan 29 to Feb 1, and Dec 8-11. b-Also occurred Mar 4-11. c-Also occurred Feb 4-20, 1978. d-From rating curve extended above 950 ft³/s.

07082400 TURQUOISE LAKE NEAR LEADVILLE, CO

 $LOCATION.--Lat\ 39^{o}15'10'', long\ 106^{o}22'26'', in\ SW^{1/4}NE^{1/4}\ sec. 19,\ T.9\ S.,\ R.80\ W.,\ Lake\ County,\ Hydrologic\ Unit\ 11020001,\ in\ control\ house\ of\ Sugar\ Loaf\ Dam\ on\ Lake\ Fork,\ 4.0\ mi\ west\ of\ Leadville,\ and\ 4.6\ mi\ upstream\ from\ mouth.$

DRAINAGE AREA.--28.1 mi².

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

GAGE.--Nonrecording gage read once daily. Datum of gage is 9,869.40 ft above sea level, (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations above sea level.

REMARKS.--Reservoir formed by earthfill dam completed in 1909, capacity, 17,400 acre-ft. Enlargement of dam began Dec. 8, 1965, and closure was made Apr. 15, 1968. Enlarged capacity, 129,400 acre-ft at elevation 9,869.40 ft, crest of spillway. Dead storage, 2,770 acre-ft below elevation 9,765.90 ft, sill of lowest outlet. Figures given are total contents. Since Apr. 15, 1968, Turquoise Lake has been a regulatory reservoir for the Fryingpan-Arkansas project and stores water imported from the Colorado River basin through Charles H. Boustead Tunnel for irrigation, municipal water supply, and power development. It also stores water for industrial use, and water imported from the Colorado River basin through Busk-Ivanhoe tunnel for irrigation and through Homestake tunnel for municipal water supply.

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

EXTREMES (at 0800 of the following day) FOR PERIOD OF RECORD.--Maximum contents, 131,820 acre-ft, July 10, 1983, elevation, 9,870.73 ft; minimum since appreciable storage was attained, 14,510 acre-ft, Oct. 1, 1968, elevation, 9,782.85 ft.

EXTREMES (at 0800 of the following day) FOR CURRENT YEAR.--Maximum contents, 128,750 acre-ft, July 6, elevation, 9,869.04 ft; minimum, 64,360 acre-ft, May 15, elevation, 9,829.38 ft.

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

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	9,860.21 9,856.66 9,852.20 9,848.19	113,280 107,220 99,740 93,150	-6,060 -7,480 -6,590
Jan. 31. Feb. 28. Mar. 31. Apr. 30. May 31. June 30. July 31. Aug. 31. Sept. 30.	9,843.44 9,837.70 9,833.56 9,833.56 9,836.75 9,868.08 9,868.91 9,867.38 9,865.20	85,510 76,580 70,370 70,370 75,130 127,040 128,520 125,800 121,950	-7,640 -8,930 -6,210 -4,760 +51,910 +1,480 -2,720 -3,850
WTR YR 1997	_	-	+8,670

07083000 HALFMOON CREEK NEAR MALTA, CO

LOCATION.--Lat 39°10'20", long 106°23'19", in SE¹/4SE¹/4 sec.13, T.10 S., R.81 W., Lake County, Hydrologic Unit 11020001, on right bank 1.4 mi upstream from culvert on Halfmoon Campground road, 3.3 mi upstream from mouth, and 4.3 mi southwest of

DRAINAGE AREA.--23.6 mi².

PERIOD OF RECORD.--July 1946 to current year. Surface-water Hydrologic Benchmark station only, April 1996 to current year. Water-quality data available, November 1966 to March 1996 (Hydrologic Benchmark station). Daily record for water temperatures available May 1967 to September 1982.

REVISED RECORDS.--WSP 2121: Drainage area at site 1.4 mi downstream. WRD Colo. 1968: 1967 (M). WDR CO-79-1: 1976 (M). WDR CO-80-1: 1954 (M).

GAGE.--Water-stage recorder with satellite telemetry. Concrete control since 1966. Elevation of gage is 9,830 ft above sea level, from topographic map. Prior to Oct. 19, 1966, at sites 1.4 mi downstream at different datums.

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

oup)	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	19 18 22 20 19	e18 e19 e20 e20 e20	e6.5 e6.5 e6.0 e6.0	e4.0 e4.0 e4.0 e4.0 e4.0	e4.5 e4.6 e4.6 e4.7 e4.8	e4.8 e4.8 e4.8 e4.8	e6.0 e6.0 e6.0 e6.2 e6.2	e11 e11 e11 e11	e86 e140 e198 229 238	177 159 154 147 141	68 65 63 64 62	33 33 31 30 29		
6 7 8 9	18 17 16 16 16	e19 e19 e19 e19	e5.5 e5.5 e5.2 e5.0 e4.8	e3.8 e3.6 e3.8 e4.0 e4.0	e4.8 e4.8 e4.8 e4.8	e4.8 e4.9 e4.9 e4.9 e5.0	e6.4 e6.6 e6.6 e6.6 e6.4	e20 e28 e30 e31 44	218 229 221 165 160	131 129 122 107 106	71 72 61 57 63	30 30 27 26 26		
11 12 13 14 15	16 15 15 15 14	e19 e19 e19 e19	e4.8 e5.0 e5.0 e4.8 e4.5	e4.0 e4.0 e4.0 e4.0 e4.0	e4.8 e4.8 e4.8 e4.8	e5.0 e5.0 e5.2 e5.2	e6.4 e6.0 e6.0 e6.0 e6.0	50 49 53 62 71	167 178 170 172 168	105 101 105 105 106	59 53 55 57 51	30 33 28 27 26		
16 17 18 19 20	14 14 16 15 14	e19 e19 e19 e19	e4.7 e4.7 e4.6 e4.6 e4.6	e4.2 e4.2 e4.2 e4.3 e4.3	e4.8 e4.8 e4.8 e4.8	e5.2 e5.4 e5.4 e5.4	e6.2 e6.4 e6.6 e7.0 e7.4	82 95 106 104 108	167 173 213 255 281	103 98 95 95 91	47 45 45 41 39	28 26 25 25 25		
21 22 23 24 25	13 14 e15 e15 e14	e16 e15 e14 e13 e11	e4.5 e4.4 e4.4 e4.1 e4.1	e4.2 e4.2 e4.2 e4.2 e4.2	e4.8 e4.8 e4.8 e4.8	e5.6 e5.6 e5.8 e5.8	e8.0 e8.8 e9.4 e8.8 e8.4	104 104 85 87 82	264 258 250 239 226	87 82 87 89 86	37 34 33 32 33	26 26 25 23 22		
26 27 28 29 30 31	e15 e16 e16 e17 e17	e10 e9.0 e8.5 e8.0 e7.0	e4.1 e4.2 e4.4 e4.2 e4.0 e4.0	e4.3 e4.4 e4.5 e4.5 e4.5 e4.5	e4.8 e4.8 e4.8	e6.0 e6.0 e6.0 e6.0 e6.0	e8.4 e9.0 e10 e11	e74 e64 e56 e47 e44 e52	210 200 185 188 187	79 77 77 79 77 73	37 36 34 32 31 33	21 21 21 20 19		
TOTAL MEAN MAX MIN AC-FT	497 16.0 22 13 986	493.5 16.5 20 7.0 979	150.7 4.86 6.5 4.0 299	128.1 4.13 4.5 3.6 254	133.6 4.77 4.8 4.5 265	165.1 5.33 6.0 4.8 327	218.8 7.29 11 6.0 434	1787 57.6 108 11 3540	6035 201 281 86 11970	3270 105 177 73 6490	1510 48.7 72 31 3000	792 26.4 33 19 1570		
							BY WATER							
MEAN MAX (WY) MIN (WY)	11.1 24.5 1962 6.23 1956	7.52 16.6 1962 4.40 1992	5.13 9.65 1996 3.19 1993	4.05 9.03 1996 1.65 1977	3.72 7.90 1986 1.70 1948	3.78 10.8 1947 1.20 1948	6.85 13.8 1989 2.70 1973	44.9 79.1 1996 17.7 1995	130 208 1980 61.2 1977	85.4 247 1995 22.9 1977	35.9 128 1995 14.3 1950	18.0 44.3 1961 8.03 1974		
SUMMARY	STATIST	ICS	FOR	1996 CALEN	IDAR YEAR	F	OR 1997 WAT	TER YEAR		WATER YEA	ARS 1946	- 1997		
SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN			13770.2 37.6 280 a4.0	Jun 22 Feb 6		15180.8 41.6 281 3.6	Jun 20 Jan 7		29.8 55.3 14.3 410 b1.1	Apr	1995 1977 12 1995 1 1948			
LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS 90 PERCENT EXCEEDS e-Estimated.				27310 133 16 5.0 2.3	Dec 25		3.9 339 3.44 30110 125 16 4.4 6.0	Jan 2 Jun 20 Jun 20		1.2 c ₆₁₅ d _{3.77} 21610 89 9.0 3.1 3.1	Jun :	27 1948 30 1984 30 1984		

e-Estimated

e-Estimated.

a-Also occurred Feb 7-10, and Dec 30-31.

b-Also occurred Apr 2, 1948.

c-From rating curve extended above 260 ft³/s.

d-Maximum gage height for period of record, 3.82 ft, Jul 11, 1995.

07084500 LAKE CREEK ABOVE TWIN LAKES RESERVOIR, CO

LOCATION.--Lat 39°03'47", long 106°24'26", Lake County, Hydrologic Unit 11020001, on left bank 1.2 mi upstream from water line of Twin Lakes Reservoir at elevation 9,200 ft, and 1.9 mi southwest of village of Twin Lakes.

DRAINAGE AREA.--75 mi².

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

REVISED RECORDS.--WSP 1117: Drainage area. WSP 1711: 1951(M), 1952.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,310 ft above sea level, from topographic map. Prior to May 20, 1950, at site 190 ft downstream, at different datum. May 20, 1950 to Apr. 7, 1953, at site 10 ft upstream, at present datum.

REMARKS .-- Records good except for estimated daily discharges, which are poor. No diversion upstream from station. Records include inflow from Roaring Fork River in Colorado River basin through Twin Lakes tunnel.

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

											. ,	8
			DISCI	HARGE, CUB	SIC FEET PEF		, WATER YEA Y MEAN VAL		R 1996 TO	SEPTEMBER 19) 97	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	32 31 45 38 38	e21 e21 e22 23 22	e19 e19 e18 e17 e17	e16 e16 e17 e16 e15	e12 e11 e11 e10 e10	e9.2 e9.2 e9.6 e9.2 e8.4	e21 e20 e19 e20 e19	60 84 63 47 79	1360 1420 1410 1570 1540	542 501 514 540 503	254 259 213 208 177	100 93 83 66 66
6 7 8 9 10	35 34 32 31 30	e22 e21 e20 e21 e22	e18 e17 e17 e18 e19	e14 e13 e13 e14 e14	e9.8 e9.4 e9.1 e9.0 e8.6	e8.6 e8.8 e9.0 e9.2 e9.4	e19 e18 e19 e20 e21	111 141 153 214 277	1690 1740 1620 1340 1210	451 422 434 468 462	276 240 271 164 153	68 72 63 60 64
11 12 13 14 15	29 29 28 28 27	e23 e24 e25 e24 e23	e19 e18 e19 e18 e17	e14 e13 e12 e11 e11	e9.0 e9.8 e9.6 e9.4 e9.0	e9.0 e9.4 e9.2 e9.0 e8.8	e20 e19 e18 e19 e20	295 303 316 410 376	1180 1170 755 662 620	570 497 493 474 445	153 126 121 118 102	78 87 75 94 72
16 17 18 19 20	27 20 26 32 33	e22 e21 e22 e23 e24	e16 e15 e14 e14 e15	e11 e11 e12 e13 e14	e9.4 e10 e9.8 e9.5 e9.8	e8.6 e8.8 e9.0 e9.4 e9.8	e21 e22 e23 e24 57	599 637 711 721 776	626 662 775 944 1000	433 452 394 492 364	94 88 87 80 77	127 104 124 102 138
21 22 23 24 25	e20 e22 e24 e26 25	e24 e23 e23 e22 e22	e16 e15 e15 e14 e14	e14 e13 e14 e14 e13	e9.6 e9.4 e9.3 e9.0 e8.8	e10 e11 e12 e14 e14	67 60 59 88 87	713 785 579 589 539	927 886 867 797 731	509 335 358 352 341	74 70 68 68 86	122 120 120 110 75
26 27 28 29 30 31	25 25 22 22 e21 e21	e21 e21 e20 e21 e20	e15 e15 e14 e14 e15 e15	e13 e12 e11 e10 e11 e11	e9.0 e9.2 e9.4 	e15 e17 e18 e19 e18 e20	49 46 52 51 47	453 379 350 355 546 949	689 631 594 602 598	294 292 295 284 285 243	100 108 108 101 88 93	71 72 67 65 69
TOTAL MEAN MAX MIN AC-FT	878 28.3 45 20 1740	663 22.1 25 20 1320	506 16.3 19 14 1000	406 13.1 17 10 805	268.9 9.60 12 8.6 533	349.6 11.3 20 8.4 693	1045 34.8 88 18 2070	12610 407 949 47 25010	30616 1021 1740 594 60730	13039 421 570 243 25860	4225 136 276 68 8380	2627 87.6 138 60 5210
STATIST						- 1997,	, BY WATER					
MEAN MAX (WY) MIN (WY)	43.0 185 1962 18.8 1957	27.5 90.0 1962 12.4 1989	19.3 60.0 1962 10.3 1989	14.8 35.0 1962 8.68 1981	13.2 35.0 1962 7.00 1948	13.1 40.0 1962 5.00 1948	30.7 104 1962 10.1 1983	323 704 1970 91.8 1995	872 1579 1978 415 1954	412 939 1957 81.3 1977	132 444 1995 41.8 1994	66.5 258 1961 23.5 1974
SUMMARY	STATISTI	:CS	FOR :	1996 CALEN	IDAR YEAR	F	FOR 1997 WA	TER YEAR		WATER YEA	ARS 1946	- 1997
LOWEST HIGHEST LOWEST ANNUAL		AN AN N MINIMUM		55536.1 152 1380 e8.3 8.8	Jun 9 Feb 29 Feb 24		67233.5 184 1740 e8.4 8.9 1950	Jun 7 Mar 5 Mar 5 Jun 4		164 258 78.6 2570 a5.0 5.0 5.0	Mar Mar	1970 1977 15 1978 1 1948 1 1948 15 1978
ANNUAL 10 PERC 50 PERC	CANEOUS PE RUNOFF (A CENT EXCEE CENT EXCEE CENT EXCEE	C-FT) DS DS		110200 592 28 11			4.43 133400 598 26 9.6	Jun 4		^C 5.08 119000 552 33 11	Jun 1	15 1978

e-Estimated.

a-Also occurred Mar 2-31, 1948. b-From rating curve extended above 1400 ft³/s. c-Maximum gage height, 5.26 ft, Jun 17, 1995.

07086000 ARKANSAS RIVER AT GRANITE, CO

LOCATION.--Lat 39°02'34", long 106°15'55", in SE¹/4SW¹/4 sec.31, T.11 S., R.79 W., Chaffee County, Hydrologic Unit 11020001, on right bank at Granite, 100 ft east of U.S. Highway 24, 100 ft downstream from county bridge, and 200 ft upstream from Cache Creek.

DRAINAGE AREA.--427 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1117: Drainage area. WSP 1711: 1952, 1956(M).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,914.86 ft above sea level, supplementary adjustment of 1960. Prior to Apr. 6, 1910, nonrecording gages near present site at different datums. Apr. 6, 1910 to Oct. 25, 1917, water-stage recorder or nonrecording gage at site 832 ft upstream, at different datum. Oct. 26, 1917 to Oct. 26, 1960, water-stage recorder at site 168 ft downstream, at present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 6,700 acres. Turquoise Lake and Twin Lakes Reservoir, on tributaries upstream from station, have a combined capacity of 269,700 acre-ft. Transmountain diversions from Colorado River basin to Arkansas River basin enter upstream from this station.

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

e-Estimated.

07086000 ARKANSAS RIVER AT GRANITE, CO--Continued WATER-QUALITY RECORD

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: October 1993 to current year. WATER TEMPERATURE: October 1993 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Records for specific conductance are good except for Feb. 16, 19, 27, which are fair, and Mar. 5 to Apr.1, Aug. 9, 12-13, 20, 26, and Sept. 2-3, 12-13, which are poor. Records for water temperature are good except for Feb. 21-22, Mar. 6, Apr. 24, which are fair, and Oct. 16-18, 22-23, Aug. 8-9, 11-20, 23, 26, 28, and Sept. 3, 12, 29, which are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 249 microsiemens, Jan. 16, 1996; minimum, 69 microsiemens, Feb. 25, 1997. WATER TEMPERATURE: Maximum, 18.7°C, Aug. 17, 1994; minimum, 0.0°C, many days.

EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 214 microsiemens, Sept. 16, 19; minimum, 69 microsiemens, Feb. 25. WATER TEMPERATURE: Maximum, 18.3°C, Sept. 2; minimum, 0.0°C, many days.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DI	ECEMBER			JANUARY	•
1 2 3 4 5	174 175 181 194 195	163 172 173 171 181	171 174 176 181 186	176 169 158 151 174	148 140 139 139 146	156 148 144 147 153	143 134 143 139 134	126 124 129 128 126	131 130 135 132 130	140 142 137 133 133	135 137 129 124 121	137 138 132 128 127
6 7 8 9 10	186 186 199 198 193	180 181 181 187 186	183 183 195 192 191	170 160 166 158 159	148 139 134 143 138	153 149 150 149 146	133 141 135 145 146	129 115 116 124 129	131 131 130 131 139	126 129 137 138 135	122 123 127 132 131	125 127 134 135 133
11 12 13 14 15	195 195 189 188 203	190 185 183 183	193 190 187 186 193	164 180 181 179 156	137 145 150 149 130	145 153 156 155 146	143 144 152 143 140	138 138 136 131 129	141 142 141 138 137	133 129 125 135 134	128 122 122 124 112	130 126 123 131 122
16 17 18 19 20	204 168 174 165 159	158 161 145 155 152	188 162 158 159 155	130 130 131 145 143	122 112 123 129 133	126 119 126 136 136	135 141 141 141 149	129 119 126 130 125	132 135 137 136 136	115 117 115 114 116	111 109 110 111 111	113 112 113 113 113
21 22 23 24 25	 170 174 156	 148 148 146	 158 155 151	158 150 143 148 149	125 138 135 125 125	136 142 138 134 134	149 144 142 140 138	140 138 137 133 131	143 141 140 136 134	119 118 122 124 113	112 114 117 111 110	117 116 119 117 111
26 27 28 29 30 31	157 152 164 166 181 178	145 143 140 145 145	149 146 147 154 153 154	145 145 140 137 136	121 127 123 128 127	131 135 132 132 131	136 142 142 135 133 139	131 133 132 129 130 130	134 137 136 132 132 136	115 114 117 122 122 109	111 110 109 114 101	114 113 114 119 111 106
MONTH				181	112	141	152	115	135	142	101	122

07086000 ARKANSAS RIVER AT GRANITE, CO--Continued

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

					, ,			′′				
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	104 103 106 106 110	102 97 101 101 103	103 100 104 104 107	85 85 83 82 78	80 79 76 75 76	82 82 79 79 77	107 108 107 105 105	103 106 104 103 103	105 107 106 104 104	155 175 181 180 178	150 152 170 173 164	152 163 174 177 171
6 7 8 9 10	109 107 101 102 100	105 99 94 92 91	107 102 98 97 96	80 84 80 79 78	76 75 75 74 73	79 80 77 77 75	103 97 97 99 100	96 93 93 96 98	99 95 95 97 99	165 149 145 127 118	148 145 125 117 111	154 146 134 121 115
11 12 13 14 15	108 111 109 93 96	92 100 89 84 86	100 106 101 88 93	84 86 86 86	75 79 81 77 82	79 82 84 82 84	105 110 123 130 134	100 102 105 122 127	102 106 115 125 130	114 113 112 112 111	110 110 108 108 99	112 111 110 110 106
16 17 18 19 20	93 97 103 97 100	88 88 89 88 90	90 92 97 92 95	91 94 99 105 110	85 90 93 96 102	87 92 95 99 105	137 140 140 140 133	132 135 135 128 130	134 137 138 132 131	99 90 86 86 85	89 81 81 84 80	96 85 83 85 83
21 22 23 24 25	99 89 96 94 85	78 78 84 74 69	92 83 91 89 79	110 110 111 110 109	105 106 105 107	108 108 108 108 106	130 137 136 129 128	128 128 129 128 126	130 132 132 128 127	81 85 84 83	79 79 81 77 76	80 82 83 80 78
26 27 28 29 30 31	94 93 95 	83 86 81 	89 90 86 	110 109 108 108 104 108	102 104 102 102 98 99	106 107 105 104 102 103	131 135 139 139 156	126 129 133 137 136	128 131 136 138 143	86 94 97 96 98 88	79 85 94 97 87	83 88 95 95 94 85
MONTH	111	69	95	111	73	92	156	93	120	181	76	111
11011111												
HOWIN		JUNE			JULY		P	AUGUST		5	SEPTEMBE:	R
1 2 3 4 5	85 79 72 81 85		81 76 71 75 82	78 83 84 81 77		75 78 82 78 75	106 108 99 98 98	98 99 95 90 93	102 104 98 95 96	168 167 164 155	161 149	164 152
1 2 3 4	85 79 72 81	JUNE 78 70 70 71	81 76 71 75	78 83 84 81	JULY 73 73 78 74	75 78 82 78	106 108 99 98	98 99 95 90	102 104 98 95	168 167 164 155	161 149	164 152
1 2 3 4 5 6 7 8	85 79 72 81 85 86 91 95 96	JUNE 78 70 70 71 79 83 86 90 88	81 76 71 75 82 84 89 92 92	78 83 84 81 77 76 76 95 104	JULY 73 73 78 74 72 72 72 72 76 95	75 78 82 78 75 74 73 84 99	106 108 99 98 98 111 114 101 96	98 99 95 90 93 94 97 93	102 104 98 95 96 98 105 98	168 167 164 155 	161 149 	164 152
1 2 3 4 5 6 7 8 9 10 11 12 13 14	85 79 72 81 85 86 91 95 96 92 90 87 77	JUNE 78 70 70 71 79 83 86 90 88 89 87 77 74 75	81 76 71 75 82 84 89 92 90 89 82 76	78 83 84 81 77 76 95 104 109	JULY 73 73 78 74 72 72 72 72 79 95 96 101 96 79	75 78 82 78 75 74 73 84 99 102 101 104 101 92	106 108 99 98 98 111 114 101 96 89 90	98 99 95 90 93 94 97 93 	102 104 98 95 96 98 105 98 	168 167 164 155 192 173 167	161 149 172 165 159	164 152 152 176 169 162
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	85 79 72 81 85 86 91 95 96 92 90 87 77 77 77 77 77	JUNE 78 70 70 71 79 83 86 90 88 89 87 77 74 75 76 75 80 77 74	81 76 71 75 82 84 89 92 90 89 82 76 76 76 78 81 79	78 83 84 81 77 76 95 104 109 106 105 101 88	JULY 73 73 78 74 72 72 72 72 76 95 95 96 101 96 79 78 78 78 78 78 78 78 81	75 78 82 78 75 74 73 84 99 102 101 104 101 92 82 81 82 78	106 108 99 98 98 111 114 101 96 	98 99 95 90 93 94 97 93 	102 104 98 95 96 98 105 98 	168 167 164 155 192 173 167 188 214 210 212	161 149 172 165 159 158 174 192 198 203	164 152 152 176 169 162 169 191 201 205 208
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	85 79 72 81 85 86 91 95 96 92 90 87 77 77 77 77 77 77 77 77 77 77 77	JUNE 78 70 70 71 79 83 86 90 88 89 87 77 74 75 76 75 80 77 74 71 70 70 70 71 70	81 76 71 75 82 84 89 92 90 89 82 76 76 76 77 77 72 72	78 83 84 81 77 76 76 95 104 109 106 105 101 88 84 85 81 89 88 87 91 95 100 103 110 109 112 111	JULY 73 73 78 74 72 72 72 72 76 95 95 96 101 96 79 78 78 78 78 81 83 84 85 81 81 81 81 81 81 81 81 81 81 81 81 81	75 78 82 78 75 74 73 84 99 102 101 104 101 92 82 81 82 78 86 86 86 86 87 90 88 91	106 108 99 98 98 111 114 101 96 89 90 113 115 134 137 137 141 153	98 99 95 90 93 94 97 93 110 110 130 132 131 136 133 149	102 104 98 95 96 98 105 98 113 120 132 134 135	168 167 164 155 192 173 167 188 214 210 212 214 211 190 188 206 180	161 149 172 165 159 158 174 192 198 203 186 184 183 166 161	164 152 152 1752 176 169 162 169 191 201 205 208 196 187 185 187 171
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	85 79 72 81 85 86 91 95 96 92 90 87 77 77 77 77 77 77 77 77 77 77 77 77	JUNE 78 70 70 71 79 83 86 90 88 89 87 77 74 75 76 75 80 77 74 71 70 71 70 71 75 76 78 78 77 76 78 77 77 78 77 78 77 78 77 78 77 78 77 78 78	81 76 71 75 82 84 89 92 90 89 82 76 76 78 81 79 77 72 72 74	78 83 84 81 77 76 76 95 104 109 106 105 101 88 84 85 89 88 87 91 95 95 100 103 110 109 112	JULY 73 78 74 72 72 72 76 95 96 101 96 79 78 78 78 81 83 84 84 85 91 100 106	75 78 82 78 75 74 73 84 99 102 101 104 101 92 82 81 82 78 86 86 86 86 87 90 88 91	106 108 99 98 98 111 114 101 96 89 90 113 115 134 137 137 141 153	98 99 95 90 93 94 97 93 110 110 1130 132 131 136 133 134	102 104 98 95 96 98 105 98 113 120 132 134 135	168 167 164 155 192 173 167 188 214 210 212 214 211 190 188 206 183 183 171 154 151 207	161 149 149 172 165 159 158 174 192 198 203 186 184 183 166 161 169 165 150 148 147 151	164 152 152 176 169 162 169 191 201 205 208 196 187 185 187 171 178 175 159 151 149 172

07086000 ARKANSAS RIVER AT GRANITE, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	` ′	MAX	MIN		MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		DE	CEMBER			JANUARY	
1 2 3 4 5	12.9 10.3 10.7 10.1 12.2	5.4 5.6 7.9 5.6 5.3	8.8 8.3 9.2 8.3 8.8	5.4 5.9 4.2 6.3 4.6	.8	3.1 3.2 2.7 3.8 3.1	1.8 .5 .9 .4	. 0 . 0 . 0	.4 .1 .1 .0	1.5 2.3 1.1 1.4	.0.0.0.0	.4 .7 .5 .2
6 7 8 9 10	11.7	5.2 5.2 4.7 4.9 4.8	8.9 8.6 8.4 8.5 8.4	4.0 2.5 3.6 4.2 4.1	.6 .0 .0 .8 .4		.5 1.3 2.1 1.9 2.1			.5 .1 .6 .4		.1 .0 .1 .0
11 12 13 14 15	11.8 11.5 11.3 10.1 9.7	4.5 4.2 4.3 4.6 3.7	8.3 8.1 8.0 7.4 7.0	4.9 5.2 5.2 5.1 3.1	.0 .6 1.0 1.2 2.0	2.3 2.7 3.1 3.0 2.5	1.8 2.3 2.0 .5	. 2 . 0 . 0 . 0	.7 .7 .4 .1	1.1 .0 .2 .7 .6	.0.0.0.0	.2 .0 .0 .1
16 17 18 19 20	6.4	 4.0 3.7	 6.4 5.0	3.1 2.2 3.7 5.7 5.6	.8 .0 1.3 2.2 2.5	2.0 .9 2.5 4.0 3.7	. 0 . 0 . 0 . 0	.0.0.0.0	.0.0.0.0	1.1 1.4 2.1 2.2 2.0	.0.0.0.0	.1 .2 .5 .5
21 22 23 24 25	5.1 6.3 6.7 5.1	 1.6 2.6	 4.2 3.9	5.0 5.9 3.5 3.5 3.3	1.4 2.7 1.8 .5	3.1 3.9 2.7 1.8 1.6	.1 .5 .6 .7	.0.0.0.0	.0 .1 .1 .1	1.6 1.8 1.8 1.6	.0.0.0.0.0	. 4 . 4 . 4 . 3 . 4
26 27 28 29 30 31	5.8 5.5 4.6	1.9 2.0 1.9 1.5 1.0	3.6 3.6 3.7 3.0 3.3 3.1	2.7 2.5 2.2 1.4 1.4	.0.0.0.0.0	.9 .7 .5 .4 .5	1.6 1.6 1.8 1.7 2.1	.0.0.0.0	.5 .4 .3 .4 .4	1.7 1.8 1.6 2.3 2.1	.1 .0 .0 .0	.6 .5 .2 .6 .5
MONTH				6.3	.0	2.3	2.3	.0	. 3	2.3	.0	.3
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	2.4 2.5 1.2 2.0 1.6	.0.0.0.0.0	.8 .6 .4 .5	2.2 2.8 1.2 1.8 2.1	.0 .0 .2 .0	.6 .9 .6 .5	4.6 3.2 5.4 4.8 2.8	1.6 .8 .6 2.2	3.0 1.8 2.8 3.2 1.4	7.3 8.7 9.9 12.7 13.4	.0 2.6	4.9 4.1 5.7 8.0 8.9
6 7 8 9 10		.0.0			.0	 .8 .9	4.1 4.7 6.2 5.5 3.1	. 0 . 0 . 7	1.5 2.1 3.1 3.1	11.4 9.9 10.6 11.1 11.2	4.0 3.0 4.3	8.3 7.1 6.9 7.6 7.6
12 13 14	2.7 2.9 2.3 2.1 2.2	.0.0.0.0	.7 .8 .6 .6	3.1 2.9 3.0 2.4 3.4	.0 .1 .2 .0	. 8	.9 4.0 6.4 7.7 8.0	.0 .0 .0 .1	.3 1.3 2.4 3.3 4.7	9.9 10.3 10.4 10.3 10.1	4.3 5.1 4.8 5.0 5.5	7.7 7.8 7.8
16 17 18 19 20	2.8 2.9 2.9 2.8 1.4	.0 .0 .1 .0	.8 .9 .7	3.4 3.0 3.5 4.1 5.2	.5 .6 .2 .5	1.4 1.4 1.4 2.0 2.5	9.5 9.8 9.4 8.7 8.7	1.5 1.4 1.8 2.0 2.6	5.2 5.6 5.5 5.4 5.7	9.4 9.4 8.6 10.9 9.2	5.6 5.9 6.4 6.4	7.8 7.6 8.5 7.9
21 22 23 24 25	2.4 1.7 1.6 1.6 2.0	.0.0.0.0	.7 .5 .4 .3	5.1 4.6 5.9 3.1 4.7	.8 .9 1.0 1.2	2.8 2.7 3.2 2.0 2.0	5.7 7.3 6.0 3.1 7.4	3.1 1.0 1.9 1.4	4.4 4.0 4.1 2.4 3.6	8.6 7.8 9.3 8.9 8.9	6.3 6.6 5.4 7.3 6.2	7.5 6.9 7.4 8.0 7.5
26 27 28 29 30 31	2.4 1.6 1.5 	.0.0.0	.7 .5 .5 	5.7 5.0 5.3 4.4 5.7 5.6	.3 1.2 .4 1.6 .0	2.8 3.0 2.9 2.8 2.6 3.1	8.5 9.8 7.7 8.7 8.4	2.5 1.9 4.1 4.1 1.6	5.1 5.8 6.1 5.9 5.0	8.9 9.0 8.9 8.8 10.6 12.5	6.0 6.0 6.2 7.2 6.9 7.6	7.4 7.3 7.4 7.9 8.8 10.0
MONTH	2.9	.0	.6		.0		9.8	.0	3.6	13.4	.0	7.5

07086000 ARKANSAS RIVER AT GRANITE, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	ER
1 2 3 4 5	12.8 11.4 12.7 13.1 11.7	8.2 8.0 7.5 8.5 8.1	10.6 9.6 10.0 10.8 10.0	14.2 13.7 13.9 14.2	9.3 8.2 8.4 8.5 8.5	11.7 10.9 11.1 11.4 11.2	16.6 16.4 16.1 16.0 14.7	12.8 12.9 12.5 13.0 13.2	14.7 14.4 14.2 14.3 13.9	15.6 18.3 15.7	11.6 11.3 12.5 11.4	13.5 14.4 13.8
6 7 8 9 10	10.1 11.7 9.3 10.8 10.7	7.1 7.6 7.2 6.1 7.1	9.0 9.4 8.0 8.3 8.7	13.2 13.1 11.9 14.0 13.8	8.8 8.9 9.6 8.6 10.0	11.1 11.1 10.9 11.3 12.1	13.6 15.7 	11.8 11.2 12.0 12.7	12.8 13.2 	 	 	
11 12 13 14 15	11.6 11.1 10.7 10.5 11.2	7.1 7.5 8.2 7.7 7.2	9.3 9.5 9.4 9.2 9.2	12.7 14.7 15.9 15.3 16.0	10.7 10.0 10.9 10.7 11.8	11.7 12.2 13.3 13.1 13.9	 	11.8 11.5 11.9 11.7	 	16.1 15.0 14.7 14.0	 9.2 9.6 9.1	12.4 12.3 11.5
16 17 18 19 20	11.3 11.6 12.9 13.4 13.7	8.2 8.4 8.0 9.5 8.7	9.8 10.0 10.6 11.2 11.3	14.5 15.1 13.9 14.1 14.5	11.7 11.6 11.6 11.8 12.2	13.3 13.3 13.0 12.9 13.3	 	12.0 12.4 12.0 11.9	 	13.5 13.3 14.8 15.4 12.4	8.6 7.2 9.3 10.0 8.8	11.1 10.6 11.9 12.4 10.4
21 22 23 24 25	11.9 13.6 13.7 13.1 13.7	9.2 9.0 9.6 9.9	10.6 11.2 11.7 11.6 11.7	14.7 14.3 14.7 16.4 15.9	11.9 12.0 12.4 12.7 12.7	13.4 13.2 13.6 14.4 14.2	15.6 17.3 16.3 16.8	11.0 11.4 10.6 10.7 10.5	13.2 13.9 13.4 13.3	12.3 11.4 12.0 14.2 14.2	8.6 8.3 6.1 8.2 8.1	10.3 9.8 9.1 11.1 11.3
26 27 28 29 30 31	13.7 12.8 13.4 14.2 14.6	9.6 9.7 9.1 9.3 9.3	11.7 11.2 11.3 11.8 11.9	14.3 14.8 14.3 15.2 15.8 15.9	12.1 12.5 12.2 12.0 12.8 12.5	13.4 13.5 13.1 13.3 14.0 14.1	17.5 16.1 13.9 15.7	11.7 11.0 11.8 10.9 10.8 10.5	14.1 13.4 12.0 13.0	12.8 14.6 13.7 13.4 13.5	9.9 10.1 9.3 7.1	11.4 12.1 11.4 10.4
MONTH	14.6	6.1	10.3	16.4	8.2	12.7						

07091200 ARKANSAS RIVER NEAR NATHROP, CO

LOCATION.--Lat 38°39'08", long 106°03'02", in SE¹/4SW¹/4 sec.23, T.51 N., R.8 E., Chaffee County, Hydrologic Unit 11020001, on right bank 300 ft upstream from end of Chaffee County Road 194 in Browns Canyon, 3.7 mi downstream from Browns Creek, 6.7 mi south of Nathrop, and 9 mi north of Salida.

DRAINAGE AREA.--1,060 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1964 to September 1982. April 1989 to September 1993. October 1993 to current year (seasonal records only).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,350 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Natural flow of stream affected by transmountain diversions (see elsewhere in this report), storage reservoirs, power development, diversions for irrigation of about 15,000 acres, and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,540 ft³/s, July 14, 1995, gage height, 8.63 ft, maximum gage height, 9.94 ft, Aug. 31, 1978, backwater from unnamed tributary; minimum daily discharge, 95 ft³/s, Feb. 25-27, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 4,370 ft³/s, June 22, gage height, 8.02 ft; minimum daily discharge, 320 ft³/s, May, 4.

			DISCHA	ARGE, CUBI	C FEET PER		WATER YEA MEAN VAL		R 1996 TO SE	EPTEMBER 1	1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	408						492	388	2400	2590	1260	603
2	403						479	334	3200	2300	1300	605
3	e404						450	324	3770	2080	1270	585
4							477	320	3870	2070	1230	538
5							461	351	3580	2040	1340	513
6							446	438	3220	1960	1420	488
7							448	495	3210	1890	1570	496
8							451	531	3280	1790	1400	478
9							399	665	3200	1390	1330	458
10							355	762	3100	1290	1350	457
11						e600	336	832	3100	1430	1410	462
12						577	337	854	3250	1340	1350	471
13						580	337	918	3470	1300	1320	481
14						568	336	1050	3470	1300	1400	475
15						538	343	1090	3330	1560	1330	460
16						548	343	1290	3080	1690	1160	446
17						546	355	1520	2890	1690	1120	448
18						493	379	1690	3050	1650	1080	430
19						492	402	1710	3600	1610	949	426
20						503	418	1940	4000	1680	892	440
21						524	437	1990	4170	1580	784	483
22						519	421	2100	4150	1380	754	477
23						513	408	2120	4030	1410	633	483
24						511	450	2110	3850	1360	613	532
25						487	416	2100	3520	1290	635	521
26						484	446	1830	3100	1150	657	510
27						486	447	1570	2920	1180	674	560
28						480	465	1220	2700	1280	644	552
29								1240	2680	1280	624	540
						498	470					
30						472	421	1480	2670	1250	603	444
31						481		1760		1230	601	
TOTAL							12425	37022	99790	49040	32703	14862
MEAN							414	1194	3326	1582	1055	495
MAX							492	2120	4170	2590	1570	605
MTN							336	320	2400	1150	601	426
AC-FT							24640	73430	197900	97270	64870	29480

e-Estimated.

07091200 ARKANSAS RIVER NEAR NATHROP, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1981 to September 1983, April 1989 to September 1993, April 1996 to current year (seasonal only).

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: April 1989 to September 1993.

pH: April 1989 to September 1993.

WATER TEMPERATURE: April 1989 to September 1993, April 1996 to current year (seasonal only).

INSTRUMENTATION.--Water-temperature probe with satellite telemetry.

REMARKS.--Records for daily water temperature are fair. Daily data that are not published during seasonal operation (Oct. 1-3 and Mar. 11 to Sept. 30) are either missing or of unacceptable quality. EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 305 microsiemens, Sept. 19, 1991; minimum, 58 microsiemens, June 11, 1989.

pH: Maximum, 9.7 units, Oct. 24, 26, 31, Nov. 2, 1991; minimum, 6.4 units, Apr. 10-11, 1992. WATER TEMPERATURE: Maximum, 20.5°C, July 17, 1991; minimum, 0.0°C, many days during the winter months.

EXTREMES FOR CURRENT YEAR .--

WATER TEMPERATURE: Maximum during period of seasonal operation, 18.2°C, Sept. 2-3; minimum, 0.6°C, Apr. 13.

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	VEMBER		DE	CEMBER			JANUARY	
1	12.2	8.2	10.5									
2	12.6	7.8	10.5									
3												
4												
5												
6												
7												
8												
9												
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29												
30												
31												
31												
MONTH												

07091200 ARKANSAS RIVER NEAR NATHROP, CO--Continued

				TEMFERATO	JKE, WAII	ik (DEG. C),	, WAIEK YEA	AK OCTOL	LK 1770 TC	JEI TEMBEI	(1))/	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1							7.5	5.2	6.4	10.5	6.8	7.9
2							6.1	3.3	4.3	11.2	4.0	7.4
3 4							7.4	2.8	5.4	12.9	3.8	8.2
4 5							8.1 6.5	5.5 3.5	6.4 4.9	14.3 14.5	5.3 6.9	9.7 11.0
										21.5		11.0
6							5.5	2.0	3.8	13.2	9.3	11.4
7 8							7.2 7.9	2.2 3.7	4.7 5.7	12.6 12.4	9.0 8.9	10.8 10.7
9							7.8	3.7	5.6	12.4		
10							5.4	2.1	3.3	12.4		
11							7.0	.8	2.6			
12				5.3	2.6	3.9	7.8	. 7	2.8			
13 14				5.5 4.8	2.6 2.1	4.0 3.5	8.9 9.4	.6 1.2	3.5 4.2	12.0		
15				6.2	2.5	4.5	10.9	2.6	6.4	13.0	9.4	11.1
16 17				6.3 6.8	3.7 3.7	5.3 5.1	12.4 12.0	3.3 3.6	7.6 7.9	12.0 11.8	9.3 9.1	10.9 10.6
18				6.1	2.7	4.6	12.1	5.1	8.5	11.2	9.1	10.3
19				7.2	3.3	5.5	12.4	5.7	8.7	12.1	9.0	10.5
20				8.0	4.2	6.3	11.5	6.4	9.1	11.0	9.0	10.0
21				6.8	5.0	6.1	9.7	7.2	8.2	10.4	8.5	9.5
22 23				8.0 8.6	5.1 5.1	6.7	9.9 9.0	5.2 5.6	7.3	9.7 10.8	8.3 7.5	9.2 9.1
23 24				7.0	4.3	6.9 5.6	6.7	4.1	7.3 4.8	10.8	9.0	9.1
25				6.5	2.3	4.7	7.1	3.1	5.2	10.8	8.0	9.5
26				7.8	3.1	5.6	9.6	5.2	7.0	10.5	8.2	9.5
27				8.2	4.4	6.5	11.2	5.6	8.6	10.3	7.7	9.0
28				8.1	4.5	6.4	11.3	7.6	9.4	10.5	8.1	9.3
29 30				7.7 7.7	5.3 3.2	6.3 5.6	10.6 10.7	7.4 5.9	8.9 8.6	11.9 12.6	8.8 9.1	10.0 10.7
31				8.0	4.0	6.2				13.3	9.8	11.5
MONTH							12.4	.6	6.2			
MONTH							12.4	.0	0.2			
MONTH		JUNE			JULY			AUGUST	0.2		SEPTEMBE	
1	13.2		12.0	13.3		12.5			15.2			R 14.9
1 2	13.2 12.4	JUNE 10.5 9.8	12.0 11.0	13.3 12.9	JULY 11.5 10.9	12.5 12.0	16.2 15.9	AUGUST 14.3 14.7	15.2 15.2	16.1 18.2	SEPTEMBE 13.4 14.1	14.9 15.9
1 2 3	13.2 12.4 12.5	JUNE 10.5 9.8 9.0	12.0 11.0 10.8	13.3 12.9 13.2	JULY 11.5 10.9 11.1	12.5 12.0 12.2	16.2 15.9 15.5	AUGUST 14.3 14.7 14.1	15.2 15.2 14.9	16.1 18.2 18.2	SEPTEMBE 13.4 14.1 14.4	14.9 15.9 16.2
1 2	13.2 12.4	JUNE 10.5 9.8	12.0 11.0	13.3 12.9	JULY 11.5 10.9	12.5 12.0	16.2 15.9	AUGUST 14.3 14.7	15.2 15.2	16.1 18.2	SEPTEMBE 13.4 14.1	14.9 15.9
1 2 3 4 5	13.2 12.4 12.5 12.5 12.0	JUNE 10.5 9.8 9.0 10.4 10.1	12.0 11.0 10.8 11.6 10.9	13.3 12.9 13.2 13.3 13.0	JULY 11.5 10.9 11.1 11.7 11.5	12.5 12.0 12.2 12.6 12.4	16.2 15.9 15.5 16.0 15.7	AUGUST 14.3 14.7 14.1 14.3 14.7	15.2 15.2 14.9 15.1 15.2	16.1 18.2 18.2 17.3 16.9	SEPTEMBE 13.4 14.1 14.4 13.8 13.0	14.9 15.9 16.2 15.5 14.7
1 2 3 4	13.2 12.4 12.5 12.5	JUNE 10.5 9.8 9.0 10.4 10.1 9.4	12.0 11.0 10.8 11.6	13.3 12.9 13.2 13.3 13.0	JULY 11.5 10.9 11.1 11.7 11.5	12.5 12.0 12.2 12.6 12.4	16.2 15.9 15.5 16.0 15.7	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6	15.2 15.2 14.9 15.1	16.1 18.2 18.2 17.3 16.9	SEPTEMBE 13.4 14.1 14.4 13.8 13.0	14.9 15.9 16.2 15.5 14.7
1 2 3 4 5 6 7 8	13.2 12.4 12.5 12.5 12.0 11.1 10.8 10.6	JUNE 10.5 9.8 9.0 10.4 10.1 9.4 9.4 8.9	12.0 11.0 10.8 11.6 10.9	13.3 12.9 13.2 13.3 13.0 13.2 12.9 12.7	JULY 11.5 10.9 11.1 11.7 11.5	12.5 12.0 12.2 12.6 12.4 12.5 12.2	16.2 15.9 15.5 16.0 15.7 15.1 14.9 16.4	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6 12.7 13.2	15.2 15.2 14.9 15.1 15.2 14.1 13.7 14.9	16.1 18.2 17.3 16.9 16.0 15.9 16.2	SEPTEMBE 13.4 14.1 14.4 13.8 13.0 12.2 10.7 10.7	14.9 15.9 16.2 15.5 14.7 14.1 13.3 13.6
1 2 3 4 5 6 7 8	13.2 12.4 12.5 12.5 12.0 11.1 10.8 10.6 10.4	JUNE 10.5 9.8 9.0 10.4 10.1 9.4 9.4 8.9 7.9	12.0 11.0 10.8 11.6 10.9 10.2 10.2 9.7 9.2	13.3 12.9 13.2 13.3 13.0 13.2 12.9 12.7 13.1	JULY 11.5 10.9 11.1 11.7 11.5 11.6 11.6 11.6 10.8	12.5 12.0 12.2 12.6 12.4 12.5 12.2 12.2	16.2 15.9 15.5 16.0 15.7 15.1 14.9 16.4	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6 12.7 13.2 13.5	15.2 15.2 14.9 15.1 15.2 14.1 13.7 14.9 14.6	16.1 18.2 18.2 17.3 16.9 16.0 15.9 16.2	SEPTEMBE 13.4 14.1 14.4 13.8 13.0 12.2 10.7 10.7 11.4	14.9 15.9 16.2 15.5 14.7 14.1 13.3 13.6 13.7
1 2 3 4 5 6 7 8	13.2 12.4 12.5 12.5 12.0 11.1 10.8 10.6 10.4	JUNE 10.5 9.8 9.0 10.4 10.1 9.4 9.4 8.9	12.0 11.0 10.8 11.6 10.9 10.2 10.2 9.7 9.2 10.0	13.3 12.9 13.2 13.3 13.0 13.2 12.9 12.7	JULY 11.5 10.9 11.1 11.7 11.5	12.5 12.0 12.2 12.6 12.4 12.5 12.2	16.2 15.9 15.5 16.0 15.7 15.1 14.9 16.4	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6 12.7 13.2	15.2 15.2 14.9 15.1 15.2 14.1 13.7 14.9	16.1 18.2 17.3 16.9 16.0 15.9 16.2	SEPTEMBE 13.4 14.1 14.4 13.8 13.0 12.2 10.7 10.7	14.9 15.9 16.2 15.5 14.7 14.1 13.3 13.6 13.7 14.1
1 2 3 4 5 6 7 8 9 10	13.2 12.4 12.5 12.5 12.0 11.1 10.8 10.4 10.6	JUNE 10.5 9.8 9.0 10.4 10.1 9.4 9.4 9.4 9.4 9.4	12.0 11.0 10.8 11.6 10.9 10.2 10.2 9.7 9.2 10.0	13.3 12.9 13.2 13.3 13.0 13.2 12.9 12.7 13.1 13.8	JULY 11.5 10.9 11.1 11.7 11.5 11.6 11.6 11.6 11.7 12.1	12.5 12.0 12.2 12.6 12.4 12.5 12.2 12.0 12.7	16.2 15.9 15.5 16.0 15.7 15.1 14.9 16.4 15.7 15.6	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6 12.7 13.5 13.5 12.0	15.2 15.2 14.9 15.1 15.2 14.1 13.7 14.6 14.2	16.1 18.2 18.2 17.3 16.9 16.0 15.9 16.2 15.6	SEPTEMBE 13.4 14.1 14.4 13.8 13.0 12.2 10.7 10.7 11.4 11.4	14.9 15.9 16.2 15.5 14.7 14.1 13.3 13.6 13.7 14.1
1 2 3 4 5 6 7 8 9 10	13.2 12.4 12.5 12.5 12.0 11.1 10.8 10.6 10.4 10.6	JUNE 10.5 9.8 9.0 10.4 10.1 9.4 9.4 8.9 7.9 9.4	12.0 11.0 10.8 11.6 10.9 10.2 10.2 9.7 9.2 10.0	13.3 12.9 13.2 13.3 13.0 13.2 12.9 12.7 13.1 13.8	JULY 11.5 10.9 11.1 11.7 11.5 11.6 11.6 11.6 11.7 11.1 11.7	12.5 12.0 12.2 12.6 12.4 12.5 12.2 12.2 12.0 12.7	16.2 15.9 15.5 16.0 15.7 15.1 14.9 16.4 15.7 15.6	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6 12.7 13.5 13.5 13.5	15.2 15.2 14.9 15.1 15.2 14.1 13.7 14.9 14.6 14.2	16.1 18.2 18.2 17.3 16.9 16.0 15.9 16.2 15.6 16.2	SEPTEMBE 13.4 14.1 14.4 13.8 13.0 12.2 10.7 10.7 11.4 11.4 11.6 11.7	14.9 15.9 16.2 15.5 14.7 14.1 13.3 13.6 13.7 14.1
1 2 3 4 5 6 7 8 9 10	13.2 12.4 12.5 12.5 12.0 11.1 10.8 10.4 10.6	JUNE 10.5 9.8 9.0 10.4 10.1 9.4 9.4 9.4 9.4 9.4	12.0 11.0 10.8 11.6 10.9 10.2 10.2 9.7 9.2 10.0	13.3 12.9 13.2 13.3 13.0 13.2 12.9 12.7 13.1 13.8	JULY 11.5 10.9 11.1 11.7 11.5 11.6 11.6 11.6 11.7 12.1	12.5 12.0 12.2 12.6 12.4 12.5 12.2 12.0 12.7	16.2 15.9 15.5 16.0 15.7 15.1 14.9 16.4 15.7 15.6	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6 12.7 13.5 13.5 12.0	15.2 15.2 14.9 15.1 15.2 14.1 13.7 14.6 14.2	16.1 18.2 18.2 17.3 16.9 16.0 15.9 16.2 15.6	SEPTEMBE 13.4 14.1 14.4 13.8 13.0 12.2 10.7 10.7 11.4 11.4	14.9 15.9 16.2 15.5 14.7 14.1 13.3 13.6 13.7 14.1
1 2 3 4 5 6 7 8 9 10	13.2 12.4 12.5 12.5 12.0 11.1 10.8 10.6 10.4 10.6	JUNE 10.5 9.8 9.0 10.4 10.1 9.4 9.4 9.2 9.5 9.7 9.6	12.0 11.0 10.8 11.6 10.9 10.2 10.2 9.7 9.2 10.0	13.3 12.9 13.2 13.3 13.0 13.2 12.9 12.7 13.1 13.8	JULY 11.5 10.9 11.1 11.7 11.5 11.6 11.6 11.8 11.7 12.1 11.2 12.0 12.5	12.5 12.0 12.2 12.6 12.4 12.5 12.2 12.0 12.7	16.2 15.9 15.5 16.0 15.7 15.1 14.9 16.4 15.7 15.6	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6 12.7 13.5 13.5 12.0 11.6 12.1 11.4	15.2 15.2 14.9 15.1 15.2 14.1 13.7 14.9 14.6 14.2	16.1 18.2 18.2 17.3 16.9 16.0 15.9 16.2 15.6 16.2	SEPTEMBE 13.4 14.1 14.4 13.8 13.0 12.2 10.7 10.7 11.4 11.6 11.7 10.8	14.9 15.9 16.2 15.5 14.7 14.1 13.3 13.6 13.7 14.1 14.0 14.1 13.2 13.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	13.2 12.4 12.5 12.5 12.0 11.1 10.8 10.6 10.4 10.6 11.5 11.3 11.0 11.0	JUNE 10.5 9.8 9.0 10.4 10.1 9.4 9.4 8.9 7.9 9.4 9.2 9.5 9.7 9.6 8.9	12.0 11.0 10.8 11.6 10.9 10.2 10.2 9.7 9.2 10.0 10.3 10.3 10.4 10.4	13.3 12.9 13.2 13.3 13.0 13.2 12.9 12.7 13.1 13.8 13.4 13.4 13.5 14.6 15.0 15.3	JULY 11.5 10.9 11.1 11.7 11.5 11.6 11.6 11.7 12.1 11.2 12.0 12.5 12.8	12.5 12.0 12.2 12.6 12.4 12.5 12.2 12.0 12.7 12.5 12.5 13.3 13.8 14.1	16.2 15.9 15.5 16.0 15.7 15.1 14.9 16.4 15.7 15.6 14.7 15.3 15.3 15.3	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6 12.7 13.2 13.5 13.5 12.0 11.6 12.1 11.4 11.9	15.2 15.2 14.9 15.1 15.2 14.1 13.7 14.9 14.6 14.2 13.5 13.5 13.7 13.4	16.1 18.2 18.2 17.3 16.9 16.0 15.9 16.2 15.6 16.2 15.6 16.2	SEPTEMBE 13.4 14.1 14.4 13.8 13.0 12.2 10.7 10.7 11.4 11.6 11.7 10.8 11.1 10.4	14.9 15.9 16.2 15.5 14.7 14.1 13.3 13.6 13.7 14.1 14.0 14.1 13.2 13.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	13.2 12.4 12.5 12.5 12.0 11.1 10.8 10.6 10.4 10.6 11.5 11.3 11.0 10.6	JUNE 10.5 9.8 9.0 10.4 10.1 9.4 9.4 9.4 9.9 7.9 9.4 9.2 9.5 9.7 9.6 8.9 9.8 9.9	12.0 11.0 10.8 11.6 10.9 10.2 10.2 9.7 9.2 10.0 10.3 10.3 10.4 10.0	13.3 12.9 13.2 13.3 13.0 13.2 12.9 12.7 13.1 13.8 13.4 13.5 14.6 15.0 15.3	JULY 11.5 10.9 11.1 11.7 11.5 11.6 11.6 11.8 11.7 12.1 11.2 12.0 12.5 12.8	12.5 12.0 12.2 12.6 12.4 12.5 12.2 12.0 12.7 12.5 13.3 13.8 14.1	16.2 15.9 15.5 16.0 15.7 15.1 14.9 16.4 15.7 15.6 14.7 15.3 15.3 15.3 15.3 16.3	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6 12.7 13.5 13.5 12.0 11.6 12.1 11.4 11.9 12.7	15.2 15.2 14.9 15.1 15.2 14.1 13.7 14.6 14.2 13.5 13.5 13.7 13.4 14.1	16.1 18.2 18.2 17.3 16.9 16.0 15.9 16.2 15.6 16.2 15.8 16.0 15.1 14.9 14.6	SEPTEMBE 13.4 14.1 14.4 13.8 13.0 12.2 10.7 10.7 11.4 11.6 11.7 10.8 11.1 10.4	14.9 15.9 16.2 15.5 14.7 14.1 13.3 13.6 13.7 14.1 14.0 14.1 13.2 12.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	13.2 12.4 12.5 12.5 12.0 11.1 10.8 10.6 10.4 10.6 11.5 11.0 11.0 11.0 11.0	JUNE 10.5 9.8 9.0 10.4 10.1 9.4 8.9 7.9 9.4 9.2 9.5 9.7 9.6 8.9 9.8 9.9	12.0 11.0 10.8 11.6 10.9 10.2 10.2 9.7 9.2 10.0 10.3 10.3 10.4 10.4 10.0	13.3 12.9 13.2 13.3 13.0 13.2 12.9 12.7 13.1 13.8 13.4 13.4 13.5 14.6 15.0 15.3	JULY 11.5 10.9 11.1 11.7 11.5 11.6 11.6 11.7 12.1 12.1 12.2 12.0 12.5 12.8 13.3 12.8 13.0	12.5 12.0 12.2 12.6 12.4 12.5 12.2 12.0 12.7 12.5 13.3 13.8 14.1 14.1 13.8 13.8	16.2 15.9 15.5 16.0 15.7 15.1 14.9 16.4 15.7 15.6 14.7 15.3 15.3 15.3 15.4 16.3	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6 12.7 13.5 13.5 12.0 11.6 12.1 11.4 11.9 12.7	15.2 15.2 14.9 15.1 15.2 14.1 13.7 14.6 14.2 13.5 13.5 13.7 13.4 14.1	16.1 18.2 17.3 16.9 16.2 15.6 16.2 15.8 16.0 15.1 14.9 14.6	SEPTEMBE 13.4 14.1 14.4 13.8 13.0 12.2 10.7 10.7 11.4 11.6 11.7 10.8 11.1 10.4 10.7 11.3 11.2	14.9 15.9 16.2 15.5 14.7 14.1 13.3 13.6 13.7 14.1 14.0 14.1 13.2 13.2 12.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	13.2 12.4 12.5 12.5 12.0 11.1 10.8 10.6 10.4 10.6 11.5 11.3 11.0 11.0	JUNE 10.5 9.8 9.0 10.4 10.1 9.4 8.9 7.9 9.4 9.2 9.5 9.7 9.6 8.9 9.8 9.9	12.0 11.0 10.8 11.6 10.9 10.2 10.2 9.7 9.2 10.0 10.3 10.3 10.4 10.0	13.3 12.9 13.2 13.3 13.0 13.2 12.9 12.7 13.1 13.8 13.4 13.5 14.6 15.0 15.3	JULY 11.5 10.9 11.1 11.7 11.5 11.6 11.6 11.8 11.7 12.1 11.2 12.0 12.5 12.8	12.5 12.0 12.2 12.6 12.4 12.5 12.2 12.0 12.7 12.5 13.3 13.8 14.1	16.2 15.9 15.5 16.0 15.7 15.1 14.9 16.4 15.7 15.6 14.7 15.3 15.3 15.3 15.3 16.3	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6 12.7 13.5 13.5 12.0 11.6 12.1 11.4 11.9 12.7	15.2 15.2 14.9 15.1 15.2 14.1 13.7 14.9 14.6 14.2 13.5 13.5 13.7 13.4	16.1 18.2 18.2 17.3 16.9 16.0 15.9 16.2 15.6 16.2 15.8 16.0 15.1 14.9 14.6	SEPTEMBE 13.4 14.1 14.4 13.8 13.0 12.2 10.7 10.7 11.4 11.6 11.7 10.8 11.1 10.4	14.9 15.9 16.2 15.5 14.7 14.1 13.3 13.6 13.7 14.1 14.0 14.1 13.2 12.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	13.2 12.4 12.5 12.5 12.0 11.1 10.8 10.6 10.4 10.6 11.5 11.0 11.0 11.0 11.0 12.2 12.2 12.8	JUNE 10.5 9.8 9.0 10.4 10.1 9.4 9.4 8.9 7.9 9.4 9.2 9.5 9.7 9.6 8.9 9.8 9.9 10.8 10.7	12.0 11.0 10.8 11.6 10.9 10.2 10.2 9.7 9.2 10.0 10.3 10.4 10.4 10.0 10.5 10.9 11.1 11.9	13.3 12.9 13.2 13.3 13.0 13.2 12.9 12.7 13.1 13.8 13.4 13.5 14.6 15.0 15.3 14.9 14.6 14.6 15.0	JULY 11.5 10.9 11.1 11.7 11.5 11.6 11.6 11.6 12.1 12.1 12.2 12.0 12.5 12.8 13.3 12.8 13.0 12.8 12.8	12.5 12.0 12.2 12.6 12.4 12.5 12.2 12.0 12.7 12.5 13.3 13.8 14.1 14.1 13.8 13.5 13.5	16.2 15.9 15.5 16.0 15.7 15.1 14.9 16.4 15.7 15.6 14.7 15.3 15.3 15.3 15.4 16.3 15.7	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6 12.7 13.2 13.5 12.0 11.6 12.1 11.4 11.9 12.7 12.5 13.9 12.7 12.6	15.2 14.9 15.1 15.2 14.1 13.7 14.9 14.6 14.2 13.5 13.7 13.4 14.1 14.4 14.5 14.5 14.3	16.1 18.2 17.3 16.9 16.0 15.9 16.2 15.6 16.2 15.8 16.0 15.1 14.9 14.6	SEPTEMBE 13.4 14.1 14.4 13.8 13.0 12.2 10.7 10.7 11.4 11.6 11.7 10.8 11.1 10.4 10.7 11.3 11.2 11.6 10.7	14.9 15.9 16.2 15.5 14.7 14.1 13.3 13.6 13.7 14.1 14.0 14.1 13.2 13.2 12.7 12.9 12.8 14.0 11.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	13.2 12.4 12.5 12.5 12.0 11.1 10.8 10.4 10.6 11.5 11.0 11.0 11.0 11.0 12.0 12.0 12.2 12.8 12.5	JUNE 10.5 9.8 9.0 10.4 10.1 9.4 9.4 9.2 9.5 9.7 9.6 8.9 9.8 9.9 10.8 10.7	12.0 11.0 10.8 11.6 10.9 10.2 10.2 9.7 9.2 10.0 10.3 10.3 10.4 10.4 10.0	13.3 12.9 13.2 13.3 13.0 13.2 12.9 12.7 13.1 13.8 13.4 13.5 14.6 15.0 15.3 14.9 14.6 14.3 14.2 14.1	JULY 11.5 10.9 11.1 11.7 11.5 11.6 11.6 11.8 11.7 12.1 11.2 12.0 12.5 12.8 13.3 12.8 13.0 12.8 13.0	12.5 12.0 12.2 12.6 12.4 12.5 12.2 12.0 12.7 12.5 13.3 13.8 14.1 14.1 13.8 13.5 13.5	16.2 15.9 15.5 16.0 15.7 15.1 14.9 16.4 15.7 15.6 14.7 15.3 15.3 15.3 15.4 16.3 15.7 15.9	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6 12.7 13.5 13.5 12.0 11.6 12.1 11.4 11.9 12.7 12.5 13.9 12.7 12.6	15.2 15.2 14.9 15.1 15.2 14.1 13.7 14.6 14.2 13.5 13.5 13.5 13.4 14.1	16.1 18.2 18.2 17.3 16.9 16.0 15.9 16.2 15.6 16.2 15.8 16.0 15.1 14.9 14.6	SEPTEMBE 13.4 14.1 14.4 13.8 13.0 12.2 10.7 10.7 11.4 11.6 11.7 10.8 11.1 10.4 10.7 11.3 11.2 11.6 10.7	14.9 15.9 16.2 15.5 14.7 14.1 13.3 13.6 13.7 14.1 14.0 14.1 13.2 12.7 12.9 12.8 13.4 14.0 11.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	13.2 12.4 12.5 12.5 12.0 11.1 10.8 10.6 10.4 10.6 11.5 11.0 11.0 11.0 12.2 12.8 12.5 12.4 12.8 13.1	JUNE 10.5 9.8 9.0 10.4 10.1 9.4 8.9 7.9 9.4 9.2 9.5 9.7 9.6 8.9 9.8 9.9 10.8 10.7 10.9 10.7 11.2	12.0 11.0 10.8 11.6 10.9 10.2 10.2 9.7 9.2 10.0 10.3 10.4 10.4 10.4 10.5 10.9 11.1 11.9 11.6	13.3 12.9 13.2 13.3 13.0 13.2 12.9 12.7 13.1 13.8 13.4 13.5 14.6 15.0 15.3 14.9 14.6 14.3 14.2 14.1	JULY 11.5 10.9 11.1 11.7 11.5 11.6 11.6 11.6 11.7 12.1 11.2 12.0 12.5 12.8 13.3 12.8 13.0 12.8 13.0 12.8 13.0 12.8 13.0	12.5 12.0 12.2 12.6 12.4 12.5 12.2 12.0 12.7 12.5 13.3 13.8 14.1 14.1 13.8 13.5 13.5	16.2 15.9 15.5 16.0 15.7 15.1 14.9 16.4 15.7 15.6 14.7 15.3 15.3 15.3 15.4 16.3 15.7 15.9	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6 12.7 13.2 13.5 12.0 11.6 12.1 11.4 11.9 12.7 12.5 13.9 12.7 12.6 12.7 13.0 13.7	15.2 14.9 15.1 15.2 14.1 13.7 14.6 14.2 13.5 13.7 13.4 14.1 14.4 14.5 14.3 14.4	16.1 18.2 18.2 17.3 16.9 16.2 15.6 16.2 15.8 16.0 15.1 14.9 14.6 15.3 14.2 15.4 16.7	SEPTEMBE 13.4 14.1 14.4 13.8 13.0 12.2 10.7 10.7 11.4 11.6 11.7 10.8 11.1 10.4 10.7 11.3 11.2 11.6 10.7	14.9 15.9 16.2 15.5 14.7 14.1 13.3 13.6 13.7 14.1 14.0 14.1 13.2 13.2 12.7 12.9 12.8 13.4 14.0 11.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	13.2 12.4 12.5 12.5 12.0 11.1 10.8 10.6 10.4 10.6 11.5 11.0 11.0 11.0 12.0 12.2 12.8 12.5	JUNE 10.5 9.8 9.0 10.4 10.1 9.4 8.9 7.9 9.4 9.2 9.5 9.7 9.6 8.9 9.8 9.9 10.8 10.7 10.9 11.2 11.3	12.0 11.0 10.8 11.6 10.9 10.2 10.2 9.7 9.2 10.0 10.3 10.3 10.4 10.4 10.0 11.5 11.9 11.6	13.3 12.9 13.2 13.3 13.0 13.2 12.9 12.7 13.1 13.8 13.4 13.5 14.6 15.0 15.3 14.9 14.6 14.7 14.1	JULY 11.5 10.9 11.1 11.7 11.5 11.6 11.6 11.8 11.7 12.1 11.2 12.5 12.8 13.3 12.8 13.0 12.8 13.0 12.8 13.0 13.3 13.5	12.5 12.0 12.2 12.6 12.4 12.5 12.2 12.0 12.7 12.5 13.3 13.8 14.1 14.1 13.8 13.5 13.5	16.2 15.9 15.5 16.0 15.7 15.1 14.9 16.4 15.7 15.6 14.7 15.3 15.3 15.3 15.3 15.3 15.7 16.6 16.3 17.1 17.5	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6 12.7 13.5 13.5 12.0 11.6 12.1 11.4 11.9 12.7 12.5 13.9 12.7 12.6 12.7 13.0 13.7 13.4	15.2 14.9 15.1 15.2 14.1 13.7 14.6 14.2 13.5 13.5 13.7 13.4 14.1 14.4 14.5 15.0 14.3 14.4	16.1 18.2 18.2 17.3 16.9 16.0 15.9 16.2 15.6 16.2 15.8 16.0 15.1 14.9 14.6 15.3 14.2 15.4 16.7 14.4	SEPTEMBE 13.4 14.1 14.4 13.8 13.0 12.2 10.7 10.7 11.4 11.6 11.7 11.3 11.1 10.4 10.7 11.3 11.2 11.6 10.7	14.9 15.9 16.2 15.5 14.7 14.1 13.3 13.6 13.7 14.1 14.0 14.1 13.2 12.7 12.9 12.8 13.4 14.0 11.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	13.2 12.4 12.5 12.5 12.0 11.1 10.8 10.6 10.4 10.6 11.5 11.0 11.0 11.0 12.2 12.8 12.5 12.4 12.8 13.1	JUNE 10.5 9.8 9.0 10.4 10.1 9.4 8.9 7.9 9.4 9.2 9.5 9.7 9.6 8.9 9.8 9.9 10.8 10.7 10.9 10.7 11.2	12.0 11.0 10.8 11.6 10.9 10.2 10.2 9.7 9.2 10.0 10.3 10.4 10.4 10.4 10.5 10.9 11.1 11.9 11.6	13.3 12.9 13.2 13.3 13.0 13.2 12.9 12.7 13.1 13.8 13.4 13.5 14.6 15.0 15.3 14.9 14.6 14.3 14.2 14.1	JULY 11.5 10.9 11.1 11.7 11.5 11.6 11.6 11.6 11.7 12.1 11.2 12.0 12.5 12.8 13.3 12.8 13.0 12.8 13.0 12.8 13.0 12.8 13.0	12.5 12.0 12.2 12.6 12.4 12.5 12.2 12.0 12.7 12.5 13.3 13.8 14.1 14.1 13.8 13.5 13.5	16.2 15.9 15.5 16.0 15.7 15.1 14.9 16.4 15.7 15.6 14.7 15.3 15.3 15.3 15.4 16.3 15.7 15.9	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6 12.7 13.2 13.5 12.0 11.6 12.1 11.4 11.9 12.7 12.5 13.9 12.7 12.6 12.7 13.0 13.7	15.2 14.9 15.1 15.2 14.1 13.7 14.6 14.2 13.5 13.7 13.4 14.1 14.4 14.5 14.3 14.4	16.1 18.2 18.2 17.3 16.9 16.2 15.6 16.2 15.8 16.0 15.1 14.9 14.6 15.3 14.2 15.4 16.7	SEPTEMBE 13.4 14.1 14.4 13.8 13.0 12.2 10.7 10.7 11.4 11.6 11.7 10.8 11.1 10.4 10.7 11.3 11.2 11.6 10.7	14.9 15.9 16.2 15.5 14.7 14.1 13.3 13.6 13.7 14.1 14.0 14.1 13.2 13.2 12.7 12.9 12.8 13.4 14.0 11.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	13.2 12.4 12.5 12.5 12.0 11.1 10.8 10.6 10.4 10.6 11.5 11.0 11.0 11.0 11.0 12.0 12.2 12.8 12.5 12.8 12.5	JUNE 10.5 9.8 9.0 10.4 10.1 9.4 9.4 8.9 7.9 9.4 9.2 9.5 9.7 9.6 8.9 9.8 9.9 10.8 10.7 10.9 11.2 11.3 11.3	12.0 11.0 10.8 11.6 10.9 10.2 10.2 9.7 9.2 10.0 10.3 10.4 10.4 10.0 10.5 10.9 11.1 11.9 11.6	13.3 12.9 13.2 13.3 13.0 13.2 12.9 12.7 13.1 13.8 13.4 13.5 14.6 15.0 15.3 14.9 14.6 14.7 14.1 14.6 14.7 14.7 14.8 16.1 15.7	JULY 11.5 10.9 11.1 11.7 11.5 11.6 11.6 10.8 11.7 12.1 11.2 12.5 12.8 13.3 12.8 13.0 12.8 13.0 12.8 13.0 12.8 13.1 14.1	12.5 12.0 12.2 12.6 12.4 12.5 12.2 12.0 12.7 12.5 13.3 13.8 14.1 14.1 13.8 13.5 13.5 13.5	16.2 15.9 15.5 16.0 15.7 15.1 14.9 16.4 15.7 15.6 14.7 15.3 15.3 15.3 15.3 15.3 15.7 16.6 17.1 17.5 17.4 16.8	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6 12.7 13.2 13.5 13.5 12.0 11.6 12.1 11.4 11.9 12.7 12.5 13.9 12.7 12.6 12.7 13.0 13.7 13.4 13.3	15.2 14.9 15.1 15.2 14.1 13.7 14.6 14.2 13.5 13.7 13.4 14.1 14.4 14.5 15.0 14.3 14.4 14.2	16.1 18.2 18.2 17.3 16.9 16.0 15.9 16.2 15.6 16.2 15.8 16.0 15.1 14.9 14.6 15.3 14.2 15.4 16.7 14.4	SEPTEMBE 13.4 14.1 14.4 13.8 13.0 12.2 10.7 10.7 11.4 11.6 11.7 11.1 10.4 10.7 11.3 11.2 11.6 10.7	14.9 15.9 16.2 15.5 14.7 14.1 13.3 13.6 13.7 14.1 14.0 11.2 13.2 12.7 12.9 12.8 13.4 14.0 11.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	13.2 12.4 12.5 12.5 12.0 11.1 10.8 10.6 10.4 10.6 11.5 11.3 11.0 11.0 12.0 12.2 12.8 12.5 12.4 12.9 12.9	JUNE 10.5 9.8 9.0 10.4 10.1 9.4 9.4 8.9 7.9 9.4 9.2 9.5 9.7 9.6 8.9 9.8 9.9 10.8 10.7 11.2 11.3 11.3	12.0 11.0 10.8 11.6 10.9 10.2 10.2 9.7 9.2 10.0 10.3 10.4 10.4 10.0 11.1 11.9 11.6 11.7 12.3 12.2 12.2	13.3 12.9 13.2 13.3 13.0 13.2 12.9 12.7 13.1 13.8 13.4 13.5 14.6 15.3 14.9 14.6 14.3 14.1 14.6 14.7 14.8 16.1 15.7	JULY 11.5 10.9 11.1 11.7 11.5 11.6 11.6 11.8 11.7 12.1 11.2 12.0 12.5 12.8 13.3 12.8 13.0 12.8 13.3 14.1 14.2 13.7	12.5 12.0 12.2 12.6 12.4 12.5 12.2 12.0 12.7 12.5 13.3 13.8 14.1 14.1 13.8 13.5 13.5 13.5 14.1 14.1 14.1 14.1 14.1 14.1 14.1	16.2 15.9 15.5 16.0 15.7 15.1 14.9 16.4 15.7 15.6 14.7 15.3 15.3 15.4 16.3 15.7 15.9 15.6 17.1 17.5 17.5	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6 12.7 13.5 12.0 11.6 12.1 11.4 11.9 12.7 12.5 13.9 12.7 12.6 12.7 13.3 13.7 13.5	15.2 15.2 14.9 15.1 15.2 14.1 13.7 14.6 14.2 13.5 13.5 13.4 14.1 14.4 14.5 15.0 14.3 14.4 14.8 15.4 15.2	16.1 18.2 18.2 17.3 16.9 16.0 15.9 16.2 15.6 16.2 15.8 16.0 15.1 14.9 14.6 15.3 14.2 15.4 16.7 14.4 12.3 12.7 13.5 14.2	SEPTEMBE 13.4 14.1 14.4 13.8 13.0 12.2 10.7 10.7 11.4 11.6 11.7 10.8 11.1 10.4 10.7 11.3 11.2 11.6 10.7 9.9 9.8 9.2 9.3 9.4 10.5 10.5	14.9 15.9 16.2 15.5 14.7 14.1 13.3 13.6 13.7 14.1 14.0 14.1 13.2 12.7 12.9 12.8 13.4 14.0 11.9 11.0 11.1 11.5 12.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	13.2 12.4 12.5 12.5 12.0 11.1 10.8 10.6 10.4 10.6 11.5 11.0 11.0 11.0 11.0 12.0 12.2 12.8 12.5 12.8 12.5	JUNE 10.5 9.8 9.0 10.4 10.1 9.4 9.4 8.9 7.9 9.4 9.2 9.5 9.7 9.6 8.9 9.8 9.9 10.8 10.7 11.2 11.3 11.3	12.0 11.0 10.8 11.6 10.9 10.2 10.2 9.7 9.2 10.0 10.3 10.4 10.4 10.0 10.5 10.9 11.1 11.9 11.6	13.3 12.9 13.2 13.3 13.0 13.2 12.9 12.7 13.1 13.8 13.4 13.5 14.6 15.0 15.3 14.9 14.6 14.7 14.1 14.6 14.7 14.7 14.8 16.1 15.7	JULY 11.5 10.9 11.1 11.7 11.5 11.6 11.6 10.8 11.7 12.1 11.2 12.5 12.8 13.3 12.8 13.0 12.8 13.0 12.8 13.0 12.8 13.1 14.1	12.5 12.0 12.2 12.6 12.4 12.5 12.2 12.0 12.7 12.5 13.3 13.8 14.1 14.1 13.8 13.5 13.5 13.5	16.2 15.9 15.5 16.0 15.7 15.1 14.9 16.4 15.7 15.6 14.7 15.3 15.3 15.3 15.3 15.3 15.7 16.6 17.1 17.5 17.4 16.8	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6 12.7 13.2 13.5 13.5 12.0 11.6 12.1 11.4 11.9 12.7 12.5 13.9 12.7 12.6 12.7 13.0 13.7 13.4 13.3	15.2 14.9 15.1 15.2 14.1 13.7 14.6 14.2 13.5 13.7 13.4 14.1 14.4 14.5 15.0 14.3 14.4 14.2	16.1 18.2 18.2 17.3 16.9 16.0 15.9 16.2 15.6 16.2 15.8 16.0 15.1 14.9 14.6 15.3 14.2 15.4 16.7 14.4 12.3 12.7 13.5 14.2	SEPTEMBE 13.4 14.1 14.4 13.8 13.0 12.2 10.7 10.7 11.4 11.6 11.7 11.1 10.4 10.7 11.3 11.2 11.6 10.7	14.9 15.9 16.2 15.5 14.7 14.1 13.3 13.6 13.7 14.1 14.0 11.2 13.2 12.7 12.9 12.8 13.4 14.0 11.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	13.2 12.4 12.5 12.5 12.0 11.1 10.6 10.4 10.6 11.5 11.3 11.0 11.0 11.0 12.0 12.2 12.8 12.5 12.8 12.5 12.8 12.5	JUNE 10.5 9.8 9.0 10.4 10.1 9.4 9.4 9.4 9.5 9.7 9.6 8.9 9.8 9.9 10.8 10.7 10.9 11.2 11.3 11.1 11.4	12.0 11.0 10.8 11.6 10.9 10.2 10.2 9.7 9.2 10.0 10.3 10.4 10.4 10.0 11.1 11.9 11.6 11.7 11.7 12.3 12.2 12.2 12.2	13.3 12.9 13.2 13.3 13.0 13.2 12.9 12.7 13.1 13.8 13.4 13.5 14.6 15.0 15.3 14.9 14.6 14.7 14.8 16.1 15.7	JULY 11.5 10.9 11.1 11.7 11.5 11.6 11.6 10.8 11.7 12.1 11.2 12.0 12.5 12.8 13.3 12.8 13.0 12.8 13.0 14.1 14.2 13.7 13.9 13.6 13.9	12.5 12.0 12.2 12.6 12.4 12.5 12.2 12.0 12.7 12.5 13.3 13.8 14.1 14.1 13.8 13.5 13.5 13.5 14.1 14.1 14.7 15.0	16.2 15.9 15.5 16.0 15.7 15.1 14.9 16.4 15.7 15.6 14.7 15.3 15.4 16.3 15.8 16.6 16.3 15.7 15.9 15.6 17.1 17.5 17.4 16.8	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6 12.7 13.5 13.5 12.0 11.6 12.1 11.4 11.9 12.7 12.5 13.9 12.7 12.6 12.7 13.0 13.7 13.3 13.7 13.5 14.2 14.4 14.3	15.2 15.2 14.9 15.1 15.2 14.1 13.7 14.6 14.2 13.5 13.5 13.4 14.1 14.4 14.5 15.0 14.3 14.4 14.8 15.4 15.4 15.2	16.1 18.2 18.2 17.3 16.9 16.0 15.6 16.2 15.8 16.0 15.1 14.9 14.6 15.3 14.2 15.4 16.7 14.4 12.3 12.1 12.7 13.5 14.2 13.5 14.2	SEPTEMBE 13.4 14.1 14.4 13.8 13.0 12.2 10.7 10.7 11.4 11.6 11.7 10.8 11.1 10.4 10.7 11.3 11.2 11.6 10.7 9.8 9.2 9.3 9.4 10.5 9.8 9.1 8.9	14.9 15.9 16.2 15.5 14.7 14.1 13.3 13.6 13.7 14.1 14.0 14.1 13.2 12.7 12.9 12.8 13.4 14.0 11.9 11.0 11.1 11.5 12.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	13.2 12.4 12.5 12.5 12.0 11.1 10.8 10.6 10.4 10.6 11.5 11.0 11.0 11.0 11.0 12.2 12.8 12.5 12.8 12.5	JUNE 10.5 9.8 9.0 10.4 10.1 9.4 9.4 8.9 7.9 9.4 9.2 9.5 9.7 9.6 8.9 9.8 9.9 10.8 10.7 10.9 11.2 11.3 11.3 11.1 11.2 10.7 11.1	12.0 11.0 10.8 11.6 10.9 10.2 10.2 9.7 9.2 10.0 10.3 10.4 10.4 10.0 11.7 11.9 11.6 11.7 11.7 12.2 12.2 12.2	13.3 12.9 13.2 13.3 13.0 13.2 12.9 12.7 13.1 13.8 13.4 13.5 14.6 15.0 15.3 14.9 14.6 14.7 14.7 14.8 16.1 15.7	JULY 11.5 10.9 11.1 11.7 11.5 11.6 11.6 10.8 11.7 12.1 11.2 12.5 12.8 13.3 12.8 13.0 12.8 13.0 12.8 13.1 14.2 13.7 14.1	12.5 12.0 12.2 12.6 12.4 12.5 12.2 12.0 12.7 12.5 13.3 13.8 14.1 14.1 13.8 13.5 13.5 13.5 14.1 14.1 14.7 15.0	16.2 15.9 15.5 16.0 15.7 15.1 14.9 16.4 15.7 15.6 14.7 15.3 15.3 15.3 15.3 15.3 15.7 16.6 16.3 17.1 17.5 17.4 16.8	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6 12.7 13.2 13.5 13.5 12.0 11.6 12.1 11.4 11.9 12.7 12.5 12.7 12.6 12.7 13.0 13.7 13.4 13.3 13.7 13.4 13.3	15.2 14.9 15.1 15.2 14.1 13.7 14.9 14.6 14.2 13.5 13.7 13.4 14.1 14.4 14.5 14.3 14.4 15.0 14.3 14.4 15.2 15.8 15.2	16.1 18.2 18.2 17.3 16.9 16.0 15.9 16.2 15.6 16.2 15.8 16.0 15.1 14.9 14.6 15.3 14.2 15.4 16.7 14.4 12.3 12.1 12.7 13.5 14.2 13.4 14.8 14.8 14.9	SEPTEMBE 13.4 14.1 14.4 13.8 13.0 12.2 10.7 10.7 11.4 11.6 11.7 11.1 10.4 10.7 11.3 11.6 10.7 9.9 9.8 9.1	14.9 15.9 16.2 15.5 14.7 14.1 13.3 13.6 13.7 14.1 14.0 11.3 12.7 12.9 12.8 13.4 14.0 11.9 11.0 11.1 11.5 12.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	13.2 12.4 12.5 12.5 12.0 11.1 10.8 10.6 10.4 10.6 11.5 11.0 11.0 11.0 12.2 12.8 12.5 12.1 12.9 12.9 12.9	JUNE 10.5 9.8 9.0 10.4 10.1 9.4 9.4 8.9 7.9 9.4 9.2 9.5 9.7 9.6 8.9 9.8 9.9 10.8 10.7 10.9 11.2 11.3 11.3 11.1 11.2 10.7 11.1 11.4	12.0 11.0 10.8 11.6 10.9 10.2 10.2 9.7 9.2 10.0 10.3 10.4 10.4 10.0 11.7 11.9 11.6 11.7 11.7 12.2 12.2 12.2	13.3 12.9 13.2 13.3 13.0 13.2 12.9 12.7 13.1 13.8 13.4 13.5 14.6 15.0 15.3 14.9 14.6 14.7 14.8 16.1 15.7	JULY 11.5 10.9 11.1 11.7 11.5 11.6 11.6 10.8 11.7 12.1 11.2 12.5 12.8 13.3 12.8 13.0 12.8 13.0 12.8 13.0 12.8 13.1 14.2 13.7 14.1	12.5 12.0 12.2 12.6 12.4 12.5 12.2 12.0 12.7 12.5 13.3 13.8 14.1 14.1 13.8 13.5 13.5 13.5 14.1 14.1 14.7 15.0	16.2 15.9 15.5 16.0 15.7 15.1 14.9 16.4 15.7 15.3 15.3 15.3 15.4 16.3 15.7 15.9 15.6 17.1 17.5 17.4 16.8	AUGUST 14.3 14.7 14.1 14.3 14.7 13.6 12.7 13.5 13.5 12.0 11.6 12.1 11.4 11.9 12.7 12.5 12.7 12.6 12.7 13.0 13.7 13.4 13.3 13.7 13.4 14.3 13.1	15.2 15.2 14.9 15.1 15.2 14.1 13.7 14.6 14.2 13.5 13.5 13.4 14.1 14.4 14.5 15.0 14.3 14.4 14.8 15.4 15.4 15.2	16.1 18.2 18.2 17.3 16.9 16.0 15.9 16.2 15.6 16.2 15.8 16.0 15.1 14.9 14.6 15.3 14.2 15.4 16.7 14.4 12.3 12.1 12.7 13.5 14.2 13.4 14.8 14.9 14.0 13.4 13.9 	SEPTEMBE 13.4 14.1 14.4 13.8 13.0 12.2 10.7 10.7 11.4 11.6 11.7 10.8 11.1 10.4 10.7 11.3 11.2 11.6 10.7 9.8 9.2 9.3 9.4 10.5 9.8 9.1 8.9	14.9 15.9 16.2 15.5 14.7 14.1 13.3 13.6 13.7 14.1 14.0 14.1 13.2 12.7 12.9 12.8 13.4 14.0 11.9 11.0 11.1 11.5 12.0

07093700 ARKANSAS RIVER NEAR WELLSVILLE, CO

LOCATION.--Lat 38°30'10", long 105°56'21", in SW¹/4NE¹/4 sec.14, T.49 N., R.9 E., Chaffee County, Hydrologic Unit 11020001, on right bank 50 ft upstream from Chaffee-Fremont County line, 2.0 mi northwest of Wellsville, 2.8 mi downstream from South Arkansas River, and 3.5 mi southeast of Salida.

DRAINAGE AREA.--1,485 mi².

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

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,883.4 ft above sea level, (river-profile survey).

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, diversions for irrigation of about 26,000 acres, and return flow from irrigated areas.

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

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

			DISC	HARGE, CU	BIC FEET PER), WATER Y LY MEAN V		ER 1996 TO	SEPTEMBER	1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	400	455	462	464	494	613	548	449	2560	2540	1300	638
2	396	458	465	457	493	622	555	400	3540	2300	1340	642
3	399	452	463	472	478	618	522	368	4190	2090	1320	632
4	419	464	465	467	478	626	544	356	4350	2050	1280	573
5	394	468	457	413	489	657	529	380	3960	2020	1380	551
6	376	464	481	421	495	667	499	461	3560	1960	1510	521
7	370	458	487	e390	491	669	500	520	3600	1880	e1680	530
8	367	443	478	427	472	686	501	549	3620	1830	e1590	507
9	320	466	481	e410	463	682	465	664	3520	1460	e1470	483
10	305	461	497	438	468	682	403	758	3340	1310	e1480	479
11	302	457	495	e420	476	681	390	818	3360	1470	1540	476
12	296	454	491	e400	477	650	380	842	3460	1370	1450	477
13	287	456	488	e420	478	650	375	874	3710	1320	e1410	486
14	288	453	489	436	507	647	370	1050	3630	1280	e1470	489
15	284	455	442	432	519	611	369	1090	3510	1560	e1400	477
16	286	489	461	447	530	617	378	1310	3210	1680	e1260	459
17	323	495	e435	464	521	622	394	1630	2980	1680	e1190	459
18	338	499	e420	488	529	568	421	1820	3140	1660	e1150	443
19	359	514	e458	496	537	561	439	1890	3800	1620	1030	440
20	371	513	e460	483	533	574	454	2100	4240	1700	976	458
21	371	507	473	476	541	593	475	2140	4310	1620	862	526
22	368	490	479	472	514	588	482	2270	4200	1440	836	529
23	395	482	478	461	530	579	469	2310	4050	1450	724	529
24	401	480	456	459	529	573	532	2300	3860	1400	686	558
25	417	462	460	456	557	553	494	2300	3540	1330	693	560
26	421	459	474	463	587	550	506	2000	3060	1160	710	544
27	425	473	483	462	580	547	507	1760	2890	1180	716	580
28	440	467	474	457	576	539	514	1350	2650	1290	694	579
29 30	456 460	461 469	462 456	448 451		555 533	520 491	1360 1610	2600 2590	1310 1300	647 646	568 490
31	464	469	456	502		538	491	1910	2590	1270	629	490
	11400	14104	1 4506	12050	1 40 40	10051	1 4000	20620	105000	40500	25060	15600
TOTAL	11498	14124	14526	13952	14342	18851	14026	39639	105030	49530	35069	15683
MEAN MAX	371 464	471 514	469 497	450 502	512 587	608 686	468 555	1279 2310	3501 4350	1598 2540	1131 1680	523 642
MIN	284	443	420	390	463	533	369	356	2560	1160	629	440
AC-FT	22810	28010	28810	27670	28450	37390	27820	78620	208300	98240	69560	31110
STATIST	TCS OF M	ONTHLY MEA	N DATA F	OR WATER	YEARS 1961	- 1997	. BY WATE	ER YEAR (WY	7)			
								·	•			
MEAN	414	424	381	349	345	339	404		2146	1505	907	522
MAX	750	581	636	576	729	647	896	2344	3930	3521	1889	1031
(WY)	1985	1983	1983	1983	1985	1993	1962	1984	1980	1995	1984	1970
MIN (WY)	229 1978	242 1978	280 1978	207 1977	208 1977	202 1978	215 1977	391 1977	708 1977	340 1977	278 1977	267 1977
(W Y)	1978	1978	19/8	1977	1977	1978	19//	1977	1977	1977	19//	19//
SUMMARY	STATIST	ICS	FOR	1996 CALE	NDAR YEAR	1	FOR 1997	WATER YEAR	2	WATER Y	EARS 1961	- 1997
ANNUAL	TOTAL			300159			346270					
ANNUAL	MEAN			820			949			741		
	C ANNUAL									^a 1135		1984
	ANNUAL M									358	_	1977
	DAILY M			4200	May 20		4350	Jun 4		5980		12 1980
	DAILY ME	AN Y MINIMUM		284 293	Oct 15 Oct 10		284 293	Oct 19		110 147		12 1963 11 1963
	SEVEN-DA CANEOUS P			293	001 10		4570	Jun 4		6240		12 1980
										b _{8.0}		
	RUNOFF (.	EAK STAGE		595400			686800	.54 Jun 4	ŧ	536700	∠ Jun	12 1980
	CENT EXCE			2250			2190			1650		
	CENT EXCE			457			520			456		
	CENT EXCE			325			402			261		

e-Estimated.

a-Highest annual mean, also occurred 1995 water year. b-Maximum gage height, 8.40 ft, Jun 23, 1995.

07093740 BADGER CREEK, UPPER STATION, NEAR HOWARD, CO

LOCATION.--Lat 38°39'32", long 105°48'48", in SE¹/4SE¹/4 sec.13, T.51 N., R.75 W., Fremont County, Hydrologic Unit 11020001, on left bank 0.1 mi downstream from County Road 2, 1.0 mi upstream from Steer Creek, 14.3 mi north of Howard, and 14.6 mi upstream from mouth.

DRAINAGE AREA.--106 mi².

WATER-DISCHARGE RECORDS

- PERIOD OF RECORD (REVISED).--March 1989 to current year (seasonal records only). Records for December 1980 to September 1986 (continuous records) and October 1986 to October 1988 (seasonal records only), at site 0.2 mi downstream, not equivalent because of seepage at that site.
- GAGE (REVISED).--Water-stage recorder with satellite telemetry. Elevation of gage is 8,790 ft above sea level, from topographic map. Prior to Oct. 28, 1988 at site 0.2 mi downstream, at different datum. Mar. 24, 1989 to June 30, 1994 at site 0.1 mi downstream, at different datum. July 1, 1994 to Aug. 1, 1996 at site 60 ft upstream, at datum 1.00 ft higher.
- REMARKS.--Records fair except for estimated daily discharges, and those below 0.50 ft³/s, which are poor. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.
- AVERAGE DISCHARGE.--5 years (water years 1981-86), 5.89 ft³/s; 4,270 acre-ft/yr.
- EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,360 ft³/s, Aug. 14, 1983, gage height, 8.22 ft, result of indirect determination of peak flow; no flow, July 17-23, 1989.
- EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 6.0 ft³/s, May 22, gage height, 2.21 ft; minimum daily, 0.12 ft³/s, July 15.

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

				ŕ		DAILY	MEAN VAL	UES				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								e1.8	.99	e.56	.49	.50
2								e1.6	e1.1	e.56	.45	.42
3								1.4	e1.2	e.55	.44	.34
4								1.4	e1.4	e.56	.49	.36
5								1.2	e1.6	e.54	.51	.36
6								1.2	e1.8	e.47	.79	.29
7								1.2	2.0	e.38	1.1	.29
8								1.1	1.9	e.32	.76	.24
9								1.0	2.8	e.26	.62	.22
10								1.0	1.7	e.24	.66	.24
11								1.0	1.4	e.22	.70	.32
12								1.0	1.2	. 29	.56	.36
13								.88	1.1	.22	.52	.30
14								.89	1.1	.17	.43	.27
15								.97	1.1	.12	.37	.29
16								.96	1.0	.13	.32	.39
17								.95	.90	.13	.48	.35
18							e1.9	.90	.86	.17	.69	.30
19							1.7	.91	.77	.31	.48	.25
20							1.5	.94	.66	.89	.48	.35
21							1.7	1.5	.61	.54	.43	.72
22							1.3	3.7	.61	.49	.41	.67
23							e1.3	2.4	.73	.67	.41	.54
24							e1.3	1.8	.59	.53	.31	.52
25							e1.4	1.6	e.54	.39	.32	.48
26							e1.4	1.4	e.49	.35	.49	.48
27							e1.5	1.3	e.46	.37	. 44	.48
28							e1.5	1.3	e.46	.59	.32	.46
29							e1.6	1.2	e.49	.62	.29	.43
30							e1.6	1.1	e.56	.61	.31	.48
31								1.0		.58	.41	
								40.66	20 16	10.02	15 46	11 86
TOTAL								40.60	32.12	12.83	15.48	11.70
MEAN								1.31	1.07	. 41	.50	.39
MAX								3.7	2.8	.89	1.1	.72
MIN								.88	.46	.12	. 29	.22
AC-FT								81	64	25	31	23

e-Estimated.

07093740 BADGER CREEK, UPPER STATION, NEAR HOWARD, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1981 to October 1988 (seasonal record only) at site 1,000 ft downstream, not equivalent because of seepage at site. March 1989 to current year (seasonal record only).

PERIOD OF DAILY RECORD.--Daily sediment record June 1981 to October 1988 (seasonal only) at site 1,000 ft downstream, not equivalent because of seepage at site. Daily sediment record March 1989 to current year (seasonal only). Daily water temperature record March 1995 to current year (seasonal record only).

INSTRUMENTATION.--Pumping sediment sampler since June 1981. Water temperature probe with satellite telemetry.

REMARKS.--Records for water temperature are good except for Apr. 18-22, which are fair. Records of daily sediment during period of seasonal operation (Apr. 22 to June 16) are fair except for June 4-16 and estimated sediment discharge, which are poor. Daily water temperature data that are not published during period of seasonal operation (Apr. 18 to Sept. 30) are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF DAILY RECORD .--

WATER TEMPERATURE: Maximum during period of seasonal operation, 30.7°C, July 28, 1995; minimum, 0.0°C, Oct. 7, 15, 19, 29, 1995 and Apr. 30, 1996...

SEDIMENT CONČENTRATIONS: Maximum daily during period of seasonal operation, 25,800 mg/L, Aug. 20, 1982; minimum daily, 0 mg/L, many days.

SEDIMENT LOADS: Maximum daily during period of seasonal operation, 15,600 tons, Aug. 14, 1983; minimum daily, 0 ton, many days.

EXTREMES FOR CURRENT YEAR .--

WATER TEMPERATURE: Maximum during period of seasonal operation, 29.9°C, July 24; minimum, 0.2°C, May 3. SEDIMENT CONCENTRATIONS: Maximum daily mean during period of seasonal operation, 1,100 mg/L, May 22; minimum daily mean, 37 mg/L, June 5.

SEDIMENT LÖADS: Maximum daily during period of seasonal operation, 12 tons, May 22; minimum daily, 0.12 ton, May 13-14.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

		DIS-					DIS-		
		CHARGE,	SPE-				CHARGE,	SPE-	
		INST.	CIFIC				INST.	CIFIC	
		CUBIC	CON-	TEMPER-			CUBIC	CON-	TEMPER-
		FEET	DUCT-	ATURE			FEET	DUCT-	ATURE
DATE	TIME	PER	ANCE	WATER	DATE T	IME	PER	ANCE	WATER
		SECOND	(US/CM)	(DEG C)			SECOND	(US/CM)	(DEG C)
		(00061)	(00095)	(00010)			(00061)	(00095)	(00010)
OCT					JUN				
01	0930	0.80	433	4.0	16 1	215	1.1		17.5
APR					16 1	230	1.0	431	17.5
18	1600	1.7	388	13.5	JUL				
MAY					11 1	200	0.20	418	16.0
02	1445	1.6	424	14.5	AUG				
14	1300	0.96	439	14.0	05 1	000	0.50	391	15.0
27	1200	1.4		11.0	SEP				
27	1300	1.4	453	11.0	08 1	400	0.20	406	23.5

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

		DIS-		SEDI-
		CHARGE,		MENT,
		INST.	SEDI-	DIS-
		CUBIC	MENT,	CHARGE,
		FEET	SUS-	SUS-
DATE	TIME	PER	PENDED	PENDED
		SECOND	(MG/L)	(T/DAY)
		(00061)	(80154)	(80155)
APR				
22	1450	1.7	398	1.8
MAY				
02	1445	1.6	228	0.98
14	1300	0.96	54	0.14
27	1200	1.4	96	0.36
JUN				
16	1215	1.1	56	0.17

07093740 BADGER CREEK, UPPER STATION, NEAR HOWARD, CO--Continued

				TEMI ERATI	OKE, WIII	ar (blo. c)	,, while ite	in octor	LIC 1770 TC	, , , , , , , , , , , , , , , , , , , ,	1 1 1 7 7 1	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		7	NOVEMBER		Di	ECEMBER			JANUARY	
		OCTOBER		1	NOVEMBER		DI	LCEMBER			UANUAKI	
1												
2												
3 4												
5												
6												
7 8												
9												
10												
11												
12 13												
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19												
20												
21 22												
23												
24												
25												
26												
26 27												
28												
29												
30												
31												
MONTH												
		FEBRUARY			MARCH			APRIL			MAY	
1 2				===		===			===	===		
2				 		 	 					
2 3 4		 								17.6 18.4		7.7 8.5
2										17.6	.2	 7.7
2 3 4 5		 			 			 		17.6 18.4 18.9	 .2 .7	7.7 8.5 9.4
2 3 4		 								17.6 18.4	 . 2 . 7	7.7 8.5
2 3 4 5 6 7 8		 								17.6 18.4 18.9 18.1 14.3 17.4	 .2 .7 1.4 2.6 2.2 2.6	7.7 8.5 9.4 9.5 8.2 8.5
2 3 4 5 6 7 8 9		 	 	 			 			17.6 18.4 18.9 18.1 14.3 17.4 18.8	2.6 2.2 2.6 2.2 2.6 4.0	7.7 8.5 9.4 9.5 8.2 8.5 9.8
2 3 4 5 6 7 8		 								17.6 18.4 18.9 18.1 14.3 17.4	 .2 .7 1.4 2.6 2.2 2.6	7.7 8.5 9.4 9.5 8.2 8.5
2 3 4 5 6 7 8 9		 	 	 			 			17.6 18.4 18.9 18.1 14.3 17.4 18.8	2.6 2.2 2.6 2.2 2.6 4.0	7.7 8.5 9.4 9.5 8.2 8.5 9.8
2 3 4 5 6 7 8 9 10				 	=======================================		 			17.6 18.4 18.9 18.1 14.3 17.4 18.8 22.3	2.6 2.2 2.6 4.0 1.8 2.2 4.1	7.7 8.5 9.4 9.5 8.2 8.5 9.8 10.0
2 3 4 5 6 7 8 9 10				 			 		 	17.6 18.4 18.9 18.1 14.3 17.4 18.8 22.3	2.6 2.2 2.6 4.0 1.8 2.2 4.1	7.7 8.5 9.4 9.5 8.2 8.5 9.8 10.0
2 3 4 5 6 7 8 9 10 11 12 13 14					==== ==== ==== ==== ==== ====		 			17.6 18.4 18.9 18.1 14.3 17.4 18.8 22.3	 .2 .7 1.4 2.6 2.2 2.6 4.0 1.8 2.2 4.1 1.4 2.6	7.7 8.5 9.4 9.5 8.2 8.5 9.8 10.0
2 3 4 5 6 7 8 9 10				 			 		 	17.6 18.4 18.9 18.1 14.3 17.4 18.8 22.3	2.6 2.2 2.6 4.0 1.8 2.2 4.1	7.7 8.5 9.4 9.5 8.2 8.5 9.8 10.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15										17.6 18.4 18.9 18.1 14.3 17.4 18.8 22.3	2.6 2.6 4.0 1.8 2.2 4.1 1.4 2.6 2.3 2.1	7.7 8.5 9.4 9.5 8.2 8.5 9.8 10.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15				 						17.6 18.4 18.9 18.1 14.3 17.4 18.8 22.3 19.4 20.0 16.7 18.3	2.6 2.2 2.6 4.0 1.8 2.2 4.1 1.4 2.6 2.3	7.7 8.5 9.4 9.5 8.2 8.5 9.8 10.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18							 16.4			17.6 18.4 18.9 18.1 14.3 17.4 18.8 22.3 19.4 20.0 16.7 18.3	2.6 4.0 1.8 2.2 2.6 4.1 1.4 2.6 2.3	7.7 8.5 9.4 9.5 8.2 8.5 9.8 10.0 10.2 9.5 8.8 9.6 9.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18				 			 16.4		 8.7	17.6 18.4 18.9 18.1 14.3 17.4 18.8 22.3 19.4 20.0 16.7 18.3 18.8 19.2 17.4 21.3	2.6 2.6 4.0 1.8 2.2 4.1 1.4 2.6 2.3 2.1 1.9 3.2 5.1	7.7 8.5 9.4 9.5 8.2 8.5 9.8 10.0 10.2 9.5 8.8 9.6 9.1 10.0 9.9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20							 16.4 16.2 18.6		 8.7 9.0	17.6 18.4 18.9 18.1 14.3 17.4 18.8 22.3 19.4 20.0 16.7 18.3 18.8 19.2 17.4 21.3 18.5	2.6 2.2 2.6 4.0 1.8 2.2 4.1 1.4 2.6 2.3 2.1 1.9 3.2 5.1	7.7 8.5 9.4 9.5 8.2 8.5 9.8 10.0 10.2 9.5 8.8 9.6 9.1 10.0 9.9 11.1 9.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21							 16.4 16.2 18.6		 8.7 9.0	17.6 18.4 18.9 18.1 14.3 17.4 18.8 22.3 19.4 20.0 16.7 18.3 18.8 19.2 217.4 21.3 18.5	2.6 2.6 4.0 1.8 2.2 4.1 1.4 2.6 2.3 2.1 1.9 3.2 5.1 3.2	7.7 8.5 9.4 9.5 8.2 8.5 9.8 10.0 10.2 9.5 8.8 9.6 9.1 10.0 9.1 10.9 9.1 11.1 9.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22							 16.4 16.2 18.6	 2.0 2.0 3.1 1.6	 8.7 9.0	17.6 18.4 18.9 18.1 14.3 17.4 18.8 22.3 19.4 20.0 16.7 18.3 18.8 19.2 17.4 21.3 18.5	2.6 2.6 4.0 1.8 2.2 4.1 1.4 2.6 2.3 2.1 1.9 3.2 5.1 3.2	7.7 8.5 9.4 9.5 8.2 8.5 9.8 10.0 10.2 9.5 8.8 9.6 9.1 10.0 9.9 11.1 9.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23							 16.4 16.2 18.6		 8.7 9.0	17.6 18.4 18.9 18.1 14.3 17.4 18.8 22.3 19.4 20.0 16.7 18.3 18.8 19.2 17.4 21.3 18.5	2.7 1.4 2.6 2.2 2.6 4.0 1.8 2.2 4.1 1.4 2.6 2.3 2.1 1.9 3.2 5.1 3.2	7.7 8.5 9.4 9.5 8.2 8.5 9.8 10.0 10.2 9.5 8.8 9.6 9.1 10.0 9.9 11.1 9.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22							16.4 16.2 18.6		 8.7 9.0	17.6 18.4 18.9 18.1 14.3 17.4 18.8 22.3 19.4 20.0 16.7 18.3 18.8 19.2 17.4 21.3 18.5	2.6 2.6 4.0 1.8 2.2 4.1 1.4 2.6 2.3 2.1 1.9 3.2 5.1 3.2	7.7 8.5 9.4 9.5 8.2 8.5 9.8 10.0 10.2 9.5 8.8 9.6 9.1 10.0 9.9 11.1 9.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25							16.4 16.2 18.6 12.1 14.2		 8.7 9.0	17.6 18.4 18.9 18.1 14.3 17.4 18.8 22.3 19.4 20.0 16.7 18.3 18.8 19.2 17.4 21.3 18.5 17.0 12.3 17.6 14.6 17.2	2.6 2.2 2.6 4.0 1.8 2.2 4.1 1.4 2.6 2.3 2.1 1.9 3.2 5.1 3.2 4.6 6.6 3.9 5.0 3.3	7.7 8.5 9.4 9.5 8.2 8.5 9.8 10.0 10.2 9.5 8.8 9.6 9.1 10.0 9.9 11.1 9.3 9.7 8.3 9.5 9.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26							16.4 16.2 18.6 12.1 14.2		 8.7 9.0 6.2 6.8	17.6 18.4 18.9 18.1 14.3 17.4 18.8 22.3 19.4 20.0 16.7 18.3 18.8 19.2 17.4 21.3 18.5	2.6 2.6 4.0 1.8 2.2 4.1 1.4 2.6 2.3 2.1 1.9 3.2 5.1 3.2 4.6 6.6 3.9 5.0 3.3	7.7 8.5 9.4 9.5 8.2 8.5 9.8 10.0 10.2 9.5 8.8 9.6 9.1 10.0 9.3 9.7 8.8 10.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27							16.4 16.2 18.6 12.1 14.2		 8.7 9.0 6.2 6.8 	17.6 18.4 18.9 18.1 14.3 17.4 18.8 22.3 19.4 20.0 16.7 18.3 18.8 19.2 17.4 21.3 18.5	2.6 2.6 4.0 1.8 2.2 4.1 1.4 2.6 2.3 2.1 1.9 3.2 5.1 3.2 4.6 6.6 3.9 5.0 3.3	7.7 8.5 9.4 9.5 8.2 8.5 9.8 10.0 10.2 9.5 8.8 9.6 9.1 10.0 9.9 11.1 9.3 9.7 8.8 10.3 9.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26							16.4 16.2 18.6 12.1 14.2		 8.7 9.0 6.2 6.8	17.6 18.4 18.9 18.1 14.3 17.4 18.8 22.3 19.4 20.0 16.7 18.3 18.8 19.2 17.4 21.3 18.5	2.6 2.6 4.0 1.8 2.2 4.1 1.4 2.6 2.3 2.1 1.9 3.2 5.1 3.2 4.6 6.6 3.9 5.0 3.3	7.7 8.5 9.4 9.5 8.2 8.5 9.8 10.0 9.9 11.1 9.3 9.5 8.8 9.6 7.1 10.0 9.9 11.1 9.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30							16.4 16.2 18.6 12.1 14.2			17.6 18.4 18.9 18.1 14.3 17.4 18.8 22.3 19.4 20.0 16.7 18.3 18.8 19.2 17.4 21.3 18.5 17.0 12.3 17.6 14.6 17.2 19.2 15.1 16.5 17.2	2.6 2.6 4.0 1.8 2.2 4.1 1.4 2.6 2.3 2.1 1.9 3.2 5.1 3.2 4.6 6.6 3.9 5.0 3.3 4.1 2.0 4.9 5.4	7.7 8.5 9.4 9.5 8.2 8.5 9.0 10.2 9.5 8.8 9.6 9.1 10.0 9.9 11.1 9.3 9.7 8.8 10.3 9.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29							16.4 16.2 18.6 12.1 14.2		 8.7 9.0 6.2 6.8 	17.6 18.4 18.9 18.1 14.3 17.4 18.8 22.3 19.4 20.0 16.7 18.3 18.8 19.2 17.4 21.3 18.5 17.0 12.3 17.6 14.6 17.2 19.2 15.1 16.5 15.4	2.6 2.6 4.0 1.8 2.2 4.1 1.4 2.6 2.3 2.1 1.9 3.2 5.1 3.2 4.6 6.6 3.9 5.0 3.3 4.1 2.0 2.7 4.9	7.7 8.5 9.4 9.5 8.2 8.5 9.8 10.0 10.2 9.5 8.8 9.6 9.1 10.0 9.9 11.1 9.3 9.7 8.8 10.3 9.5 9.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30							16.4 16.2 18.6 12.1 14.2			17.6 18.4 18.9 18.1 14.3 17.4 18.8 22.3 19.4 20.0 16.7 18.3 18.8 19.2 17.4 21.3 18.5 17.0 12.3 17.6 14.6 17.2 19.2 15.1 16.5 17.2	2.6 2.6 4.0 1.8 2.2 4.1 1.4 2.6 2.3 2.1 1.9 3.2 5.1 3.2 4.6 6.6 3.9 5.0 3.3 4.1 2.0 4.9 5.4	7.7 8.5 9.4 9.5 8.2 8.5 9.0 10.2 9.5 8.8 9.6 9.1 10.0 9.9 11.1 9.3 9.7 8.8 10.3 9.7

07093740 BADGER CREEK, UPPER STATION, NEAR HOWARD, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1 2 3 4 5	25.3 21.0 25.0 24.4 25.0	6.2 5.7 5.4 6.0 5.8	14.4 13.0 13.5 13.6 13.7	25.8 27.3 28.1 24.2 23.4	6.7 3.6 4.4 6.8 5.1	14.8 14.3 14.7 14.3 13.7	27.2 25.5 23.9 24.8 22.2	12.5 12.9 10.0 10.5 13.8	19.0 18.3 16.4 16.6 16.8	21.2 25.9 26.7 23.9 24.6	10.3 11.5 12.0 11.1 7.6	15.4 17.2 17.2 16.1 14.7
6 7 8 9 10	22.2 17.7 15.6 17.5 21.8	5.6 9.1 7.4 6.0 8.5	12.7 13.3 11.0 10.8 13.9	23.9 22.1 21.8 22.8 23.5	6.1 5.4 5.6 4.2 4.8	13.9 12.5 12.4 12.3 13.3	14.1 20.6 23.8 22.1 20.8	10.7 9.1 9.3 8.7 11.4	12.3 13.8 15.7 14.3 14.6	23.1 24.2 23.6 22.1 23.0	8.5 5.1 5.6 7.5 6.7	14.0 13.1 13.3 13.6 13.7
11 12 13 14 15	23.4 20.3 20.8 22.0 21.2	7.4 6.5 8.4 7.4 5.4	14.6 12.8 13.7 13.3 12.5	17.3 23.5 26.7 28.7 28.3	8.5 5.0 4.9 7.0 8.0	13.1 13.7 15.0 16.6 16.3	21.6 23.7 20.0 22.6 25.6	7.4 6.4 8.0 6.1 6.2	13.5 14.2 13.6 13.2 14.6	21.3 23.3 22.0 20.6 20.1	7.4 8.2 6.5 7.6 6.6	13.2 14.3 13.5 13.6 12.7
16 17 18 19 20	21.2 20.6 25.2 24.7 27.3	6.7 6.9 7.1 8.4 7.0	13.6 13.8 15.3 15.8 16.3	23.6 25.0 24.2 24.7 22.2	7.1 6.7 7.4 7.6 10.8	15.0 14.8 14.3 14.8	22.6 25.3 20.0 21.3 22.6	6.6 6.4 7.4 7.2 7.3	13.5 14.2 12.9 13.3 14.3	22.5 20.0 23.4 19.5 12.5	8.0 6.8 8.7 8.6 7.6	13.8 12.4 14.5 13.0 9.5
21 22 23 24 25	24.3 27.5 26.0 25.1 25.8	6.4 7.8 8.4 7.4 7.7	15.3 16.8 16.1 15.4 15.5	24.9 29.3 26.7 29.9 28.7	9.6 9.1 10.2 10.9 9.4	16.0 16.3 16.9 18.6 17.9	20.0 23.4 26.1 26.5 23.4	7.7 8.4 8.2 8.4 8.6	13.4 15.0 16.1 16.0 14.9	15.1 17.5 14.9 21.1 21.4	7.9 7.1 7.3 6.6 4.9	10.6 11.0 9.9 12.2 11.9
26 27 28 29 30 31	25.6 23.1 27.7 25.0 28.4	7.4 6.4 5.9 6.1 5.0	15.0 14.4 15.6 14.7 15.5	23.5 23.6 21.4 25.6 27.4 25.2	10.6 11.9 12.0 11.4 12.9 14.0	16.0 16.1 15.2 16.8 18.8	24.9 26.7 25.7 21.0 20.6 21.6	11.0 8.8 10.5 9.5 9.0 8.6	16.3 16.4 17.1 15.0 14.0	17.7 21.9 20.6 20.7 21.2	7.4 6.1 3.8 3.2 4.1	12.2 12.4 10.9 10.6 11.3
MONTH	28.4	5.0	14.2	29.9	3.6	15.3	27.2	6.1	14.9	26.7	3.2	13.1

07093740 BADGER CREEK, UPPER STATION, NEAR HOWARD, CO--Continued

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

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER		1	NOVEMBER		DE	CEMBER	
1									
2									
4									
5									
6									
7									
8 9									
10									
11									
12									
13									
14 15									
16 17									
18									
19 20									
21 22									
22									
24									
25									
26									
27 28									
29									
30									
31									
TOTAL									
		JANUARY		I	FEBRUARY			MARCH	
1									
2									
4									
5									
6									
7									
8 9									
10									
11									
12									
13 14									
15									
16									
17									
18									
19 20									
21 22									
23									
24 25									
26 27									
28									
29									
30 31									
TOTAL									

ARKANSAS RIVER BASIN

07093740 BADGER CREEK, UPPER STATION, NEAR HOWARD, CO--Continued

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

DAY	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1 2 3 4 5	 	 	 	e1.8 e1.6 1.4 1.4	232 271 226 188	e2.4 e1.0 1.0 .83 .61	.99 e1.1 e1.2 e1.4 e1.6	121 50 76 73 37	.33 e.15 e.25 e.28 e.16
6 7 8 9 10	 	 	 	1.2 1.2 1.1 1.0	121 156 159 87 87	.40 .51 .49 .23	e1.8 2.0 1.9 2.8 1.7	47 300 152 304 108	e.23 1.8 .82 2.4 .49
11 12 13 14 15	 	 	 	1.0 1.0 .88 .89	75 59 51 52 48	.20 .16 .12 .12	1.4 1.2 1.1 1.1	50 60 	.19 .19 e.23 e.21 e.19
16 17 18 19 20	e1.9 1.7 1.5	 	 	.96 .95 .90 .91	65 61 62 63 84	.17 .16 .15 .15	1.0 .90 .86 .77	57 	.15
21 22 23 24 25	1.7 1.3 e1.3 e1.3 e1.4	398 193 	1.4 e.62 e.66 e.38	1.5 3.7 2.4 1.8 1.6	244 1100 605 203 157	1.9 12 3.9 1.0	.61 .61 .73 .59 e.54	 	
26 27 28 29 30 31	e1.4 e1.5 e1.5 e1.6 e1.6	 	e2.3 e1.4 e2.1 e1.7 e1.5	1.4 1.3 1.3 1.2 1.1	142 90 103 103 64 82	.54 .32 .35 .33 .20	e.49 e.46 e.46 e.49 e.56		
TOTAL				40.60		30.72	32.12		
		JULY			AUGUST		SE	PTEMBER	
1 2 3 4 5	e.56 e.55 e.55 e.54	 	 	.49 .45 .44 .49	 	 	.50 .42 .34 .36		
6 7 8 9 10	e.47 e.38 e.32 e.26 e.24	 		.79 1.1 .76 .62 .66	 	 	.29 .29 .24 .22 .24	 	
11 12 13 14 15	e.22 .29 .22 .17	 	 	.70 .56 .52 .43	 	 	.32 .36 .30 .27 .29	 	
16 17 18 19 20	.13 .13 .17 .31	 	 	.32 .48 .69 .48	 	 	.39 .35 .30 .25 .35	 	
21 22 23 24 25	.54 .49 .67 .53	 	 	.43 .41 .41 .31	 	 	.72 .67 .54 .52	 	
26 27 28 29 30 31	.35 .37 .59 .62 .61	 	 	.49 .44 .32 .29 .31	 	 	.48 .48 .46 .43 .48	 	
TOTAL				15.48			11.70		
	Fetimated								

e-Estimated.

07093775 BADGER CREEK, LOWER STATION, NEAR HOWARD, CO

LOCATION.--Lat 38°28'02", long 105°51'34", in SW¹/4SW¹/4 sec.27, T.49 N., R.10 E., Fremont County, Hydrologic Unit 11020001, on left bank 660 ft upstream from Denver and Rio Grande Railroad bridge, 960 ft upstream from mouth, and 1.9 mi northwest of Howard. DRAINAGE AREA.--211 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1980 to September 1996, October 1996 to September 1997 (seasonal records only).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,780 ft above sea level, from topographic map. Prior to May 19, 1983, at site 360 ft downstream, at datum 5.07 ft lower.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,990 ft³/s, July 8, 1996, from rating curve extended above 160 ft³/s on the basis of slope-area measurement of peak flow; gage height, 10.73 ft, from floodmarks; minimum daily, 0.56 ft³/s, Feb. 4, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 16 ft³/s, Apr. 12, gage height, 3.98 ft; minimum daily, 4.2 ft³/s, Aug. 29 and Sept. 8-10.

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

DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUL AUG SEP 1 e5.9 9.2 8.7 8.0 5.4 5.4 4.8 9.6 8.2 8.0 5.4 5.4 4.5 3 9.1 8.0 7.9 5.8 5.4 4.3 7.7 ------9.9 7.9 5.3 4 6.6 4.3 5 9.5 7.6 7.9 6.7 5.6 4.3 9.0 6 ------------------7.9 7.8 6.6 6.4 4.3 8.6 8.0 8.9 6.5 6.6 4.3 8 9.8 ---___ ------------8.6 8.0 6.5 6.1 4.2 ------------9 ------8.6 8.0 11 6.5 5.8 4.2 10 ------------------8.5 8.0 11 6.5 6.4 4.2 7.3 11 ---------------8.3 8.3 9.8 6.5 6.3 4.4 ___ ___ ___ ___ 7.5 9.2 12 ---9.6 8.4 6.4 5.8 4.6 13 ___ ___ ___ ___ ___ 7.9 8.6 8.1 8.6 5 9 5.5 4.5 14 ---------------8.7 8.1 7.7 8.7 5.5 5.4 4.4 15 ___ ___ ___ ___ 8.7 8.1 7.7 8.4 5.4 5.1 4.4 16 ---------___ ---9.3 8.3 7.5 9.5 5.3 5.1 4.7 ___ 17 ___ ___ ___ ___ 9.5 8.3 7.5 9.1 5.4 5.1 4.5 18 ___ ___ ___ ___ ___ 9.3 8.7 7.3 8.5 5.6 5.9 4.4 19 ------9.5 8.4 7.9 6.0 5.4 4.3 20 ___ ___ ___ ___ ___ 10 8.4 7.9 7.6 6.8 5.1 5.1 21 ---------8.4 8.2 7.5 6.2 6.1 22 ___ ___ 10 8.6 10 7.1 5.9 5.1 5.7 23 ___ ___ ___ ___ ___ 9.9 9.8 7.1 8.8 6.5 4.8 5.3 24 10 9.6 9.4 7.1 5.7 4.5 5.1 9.0 25 8.0 6.9 26 8.9 8.3 27 ___ ---___ ---8.9 8.7 8.8 6.3 5.6 4.7 4.8 5.8 28 8.8 9.2 8.7 6.3 4.3 4.8 29 9.0 9.2 5.9 4.2 8.6 6.1 5.0 30 8.3 8.8 8.4 5.7 6.2 4.5 5.0 31 8.5 8.2 5.7 4.9 TOTAL 263.0 256.7 241.7 185.9 164.8 140.4 ---___ ___ 8.77 8.28 6.00 5.32 MEAN ---8.06 4.68 9.9 MAX ------------------10 11 6.8 6.6 6.1 7.3 5.7 4.2 8.0 4.2 5.3 MIN

e-Estimated.

522

509

479

369

327

278

AC-FT

07093775 BADGER CREEK, LOWER STATION, NEAR HOWARD, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1981 to current year (seasonal record only).

PERIOD OF DAILY RECORD.--Suspended sediment discharge May 1981 to September 1996 (seasonal record only). Daily water temperature record March 1995 to current year (seasonal record only).

INSTRUMENTATION.--Water temperature probe with satellite telemetry since March 1995.

REMARKS.--Records for daily water temperature are fair, except for June 23 to July 3, which are poor. Daily water temperature data not published during period of seasonal operation (Mar. 11 to Sept. 30) are either missing or of unacceptable quailty.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum during period of seasonal operation, 29.8°C, July 22, 1997; minimum, 0.0°C, Feb. 5-7, and 11-12, 1996.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 18,200 mg/L, Apr. 18, 1987; minimum daily mean, 1 mg/L, Sept. 22, 1981, many days in water year 1986, Oct. 16, 1986, Oct. 19, 1988, and Oct. 3, 1989.

SEDIMENT LOADS: Maximum daily mean, 31,500 tons/day (estimated), July 28, 1984; minimum daily mean, no load Sept 12-30, 1981.

EXTREMES FOR CURRENT YEAR .--

WATER TEMPERATURE: Maximum during period of seasonal operation, 29.8°C, July 22; minimum 0.7°C, Mar. 14.

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	VEMBER		DE	CEMBER			JANUARY	7
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
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16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MONTH												

07093775 BADGER CREEK, LOWER STATION, NEAR HOWARD, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAI			MEAN	MAA		MEAN	AAM		MEAN	MAA		MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2							9.8 6.0	5.1 2.2	6.8 3.9			
3							9.8	2.5	5.8			
4 5							8.7 9.6	5.4 2.8	6.7 5.4			
6							9.4	1.4	4.4	19.4		
7 8							11.0 11.0	1.6 4.3	5.5 6.6	17.3 17.2	6.0 6.2	10.6 10.1
9							10.1	2.8	5.9	22.1	7.2	12.2
10							6.3	1.4	3.3	21.9	6.0	12.2
11 12				14.6	1.0	 5.6	7.2 7.2	$\frac{1.1}{1.2}$	2.6 3.1	20.0 21.8	6.2 7.3	11.5 12.3
13				15.6	1.0	5.6	10.5	1.3	4.7	19.6	5.6	11.5
14 15				10.6 15.0	.7 1.3	3.8 5.6	11.8 12.1	1.9 3.4	6.0 7.3	21.2 21.0	6.7 7.0	$12.1 \\ 12.7$
16 17				16.0 13.2	2.0 2.1	6.3 6.1	14.2 13.9	5.2 4.7	9.0 8.9	21.3 22.4	6.9 7.0	12.7 13.2
18				16.6	1.8	6.8	12.9	5.2	8.7	19.8	7.6	13.1
19 20				17.6	2.1	7.6	14.0	5.2	9.1	20.8	9.0	12.7
20				18.1	2.6	8.2	13.6	6.0	9.5	21.5	6.8	12.0
21 22				11.0 14.4	3.7	6.9	14.4 11.9	6.8	9.6 8.2	20.5 19.7	8.8 10.0	13.1 13.1
23				13.7			10.3	5.0 6.6	8.2	20.9	7.3	12.6
24				7.3	3.2	4.8	7.3	4.8	5.5	16.5	8.5	11.2
25				11.8	2.9	5.9	8.6	4.0	5.7	20.7	6.3	11.9
26				13.4	3.4	7.0	9.1	4.3	6.6	20.0	6.6	11.9
27 28				12.8 12.9	4.0 4.1	7.3 7.5	15.0 12.8	4.6 7.0	9.1 9.7	17.7 19.5	5.3 6.2	$10.4 \\ 12.0$
29				11.3	4.9	6.9	13.5	6.8	9.4	18.4	7.8	12.4
30 31				12.3 10.8	3.7 4.3	6.8 7.0	13.8	5.6 	9.2	21.7 25.9	9.6 8.9	14.1 15.9
									6.8			10.7
MONTH							15.0					
11011111							13.0	1.1	0.0			
11011111		JUNE			JULY			AUGUST	0.0		SEPTEMBE	ER.
1	23.2	JUNE 9.6	15.6	25.0	JULY 12.5	17.7	26.9	AUGUST	19.4	23.3	13.7	17.7
1 2	23.2 22.4	JUNE 9.6 9.3	15.6 14.9	25.3	JULY 12.5 11.9	17.7 17.9	26.9 28.7	AUGUST 14.5 14.9	19.4 18.5	27.9	13.7 14.7	17.7 19.0
1 2 3 4	23.2 22.4 24.8 24.3	JUNE 9.6 9.3 10.6 10.5	15.6 14.9 16.5 15.4	25.3 24.7 26.8	JULY 12.5 11.9 12.8 10.6	17.7 17.9 17.2 16.5	26.9 28.7 28.3 26.2	AUGUST 14.5 14.9 13.4 14.5	19.4 18.5 18.9 18.4	27.9 28.3 26.6	13.7 14.7 14.7 13.4	17.7 19.0 19.0 18.0
1 2 3	23.2 22.4 24.8	JUNE 9.6 9.3 10.6	15.6 14.9 16.5	25.3 24.7	JULY 12.5 11.9 12.8	17.7 17.9 17.2	26.9 28.7 28.3	AUGUST 14.5 14.9 13.4	19.4 18.5 18.9	27.9 28.3	13.7 14.7 14.7	17.7 19.0 19.0
1 2 3 4 5	23.2 22.4 24.8 24.3 22.7	JUNE 9.6 9.3 10.6 10.5 10.0	15.6 14.9 16.5 15.4 15.0	25.3 24.7 26.8 22.6	JULY 12.5 11.9 12.8 10.6 9.3	17.7 17.9 17.2 16.5 15.3	26.9 28.7 28.3 26.2 24.6	AUGUST 14.5 14.9 13.4 14.5 15.5	19.4 18.5 18.9 18.4 18.3	27.9 28.3 26.6 25.4	13.7 14.7 14.7 13.4 11.3	17.7 19.0 19.0 18.0 16.7
1 2 3 4 5	23.2 22.4 24.8 24.3 22.7 22.9	JUNE 9.6 9.3 10.6 10.5 10.0	15.6 14.9 16.5 15.4 15.0 14.5	25.3 24.7 26.8 22.6 25.6 25.5	JULY 12.5 11.9 12.8 10.6 9.3	17.7 17.9 17.2 16.5 15.3	26.9 28.7 28.3 26.2 24.6 18.1 26.4	AUGUST 14.5 14.9 13.4 14.5 15.5	19.4 18.5 18.9 18.4 18.3	27.9 28.3 26.6 25.4 25.2 25.6	13.7 14.7 14.7 13.4 11.3	17.7 19.0 19.0 18.0 16.7
1 2 3 4 5	23.2 22.4 24.8 24.3 22.7	JUNE 9.6 9.3 10.6 10.5 10.0	15.6 14.9 16.5 15.4 15.0	25.3 24.7 26.8 22.6	JULY 12.5 11.9 12.8 10.6 9.3	17.7 17.9 17.2 16.5 15.3 15.9 15.3 15.1 14.8	26.9 28.7 28.3 26.2 24.6	AUGUST 14.5 14.9 13.4 14.5 15.5	19.4 18.5 18.9 18.4 18.3	27.9 28.3 26.6 25.4	13.7 14.7 14.7 13.4 11.3	17.7 19.0 19.0 18.0 16.7 15.7 15.4 16.2 15.6
1 2 3 4 5 6 7 8	23.2 22.4 24.8 24.3 22.7 22.9 19.1 19.6	JUNE 9.6 9.3 10.6 10.5 10.0 9.7 10.9 9.0	15.6 14.9 16.5 15.4 15.0 14.5 14.3 12.5	25.3 24.7 26.8 22.6 25.6 25.5 22.9	JULY 12.5 11.9 12.8 10.6 9.3 9.9 10.0 10.0	17.7 17.9 17.2 16.5 15.3 15.9 15.3 15.1	26.9 28.7 28.3 26.2 24.6 18.1 26.4 28.2	AUGUST 14.5 14.9 13.4 14.5 15.5 13.7 12.6 12.3	19.4 18.5 18.9 18.4 18.3	27.9 28.3 26.6 25.4 25.2 25.6 26.4	13.7 14.7 14.7 13.4 11.3 11.8 9.4 10.0	17.7 19.0 19.0 18.0 16.7 15.7 15.4 16.2
1 2 3 4 5 6 7 8 9 10	23.2 22.4 24.8 24.3 22.7 22.9 19.1 19.6 22.2 19.2	9.6 9.3 10.6 10.5 10.0 9.7 10.9 9.0 7.0 10.4	15.6 14.9 16.5 15.4 15.0 14.5 12.5 12.6 13.7	25.3 24.7 26.8 22.6 25.6 25.5 22.9 25.7 25.9	JULY 12.5 11.9 12.8 10.6 9.3 9.9 10.0 10.0 9.5 11.4	17.7 17.9 17.2 16.5 15.3 15.9 15.1 14.8 15.8	26.9 28.7 28.3 26.2 24.6 18.1 26.4 28.2 21.4 23.3	AUGUST 14.5 14.9 13.4 14.5 15.5 13.7 12.6 12.3 11.5 13.3	19.4 18.5 18.9 18.4 18.3 15.8 17.3 18.2 15.9 16.4	27.9 28.3 26.6 25.4 25.2 25.6 26.4 24.6 26.5	13.7 14.7 14.7 13.4 11.3 11.8 9.4 10.0 11.1 10.5	17.7 19.0 19.0 18.0 16.7 15.4 16.2 15.6 15.8
1 2 3 4 5 6 7 8 9 10	23.2 22.4 24.8 24.3 22.7 22.9 19.1 19.6 22.2 19.2	JUNE 9.6 9.3 10.6 10.5 10.0 9.7 10.9 9.0 7.0 10.4 8.9 8.6	15.6 14.9 16.5 15.4 15.0 14.5 12.6 13.7	25.3 24.7 26.8 22.6 25.6 25.5 22.9 25.7 25.9 20.3 25.8	JULY 12.5 11.9 12.8 10.6 9.3 9.9 10.0 10.0 9.5 11.4 9.6	17.7 17.9 17.2 16.5 15.3 15.9 15.3 15.1 14.8 15.8	26.9 28.7 28.3 26.2 24.6 18.1 26.4 28.2 21.4 23.3	AUGUST 14.5 14.9 13.4 14.5 15.5 13.7 12.6 12.3 11.5 13.3	19.4 18.5 18.9 18.4 18.3 15.8 17.3 18.2 15.9 16.4	27.9 28.3 26.6 25.4 25.2 25.6 26.4 24.6 26.5	13.7 14.7 14.7 13.4 11.3 11.8 9.4 10.0 11.1 10.5	17.7 19.0 19.0 18.0 16.7 15.7 15.4 16.2 15.6 15.8
1 2 3 4 5 6 7 8 9 10	23.2 22.4 24.8 24.3 22.7 22.9 19.1 19.6 22.2 19.2	9.6 9.3 10.6 10.5 10.0 9.7 10.9 9.0 7.0 10.4	15.6 14.9 16.5 15.4 15.0 14.5 12.5 12.6 13.7	25.3 24.7 26.8 22.6 25.6 25.5 22.9 25.7 25.9	JULY 12.5 11.9 12.8 10.6 9.3 9.9 10.0 10.0 9.5 11.4	17.7 17.9 17.2 16.5 15.3 15.9 15.1 14.8 15.8	26.9 28.7 28.3 26.2 24.6 18.1 26.4 28.2 21.4 23.3	AUGUST 14.5 14.9 13.4 14.5 15.5 13.7 12.6 12.3 11.5 13.3	19.4 18.5 18.9 18.4 18.3 15.8 17.3 18.2 15.9 16.4	27.9 28.3 26.6 25.4 25.2 25.6 26.4 24.6 26.5	13.7 14.7 14.7 13.4 11.3 11.8 9.4 10.0 11.1 10.5	17.7 19.0 19.0 18.0 16.7 15.4 16.2 15.6 15.8
1 2 3 4 5 6 7 8 9 10	23.2 22.4 24.8 24.3 22.7 22.9 19.1 19.6 22.2 19.2 23.7 22.9 20.7	JUNE 9.6 9.3 10.6 10.5 10.0 9.7 10.9 9.0 7.0 10.4 8.9 8.6 10.3 10.6	15.6 14.9 16.5 15.4 15.0 14.3 12.5 12.6 13.7 14.3	25.3 24.7 26.8 22.6 25.5 22.9 25.7 25.9 20.3 25.8 26.0	JULY 12.5 11.9 12.8 10.6 9.3 9.9 10.0 10.0 9.5 11.4 9.6 9.8	17.7 17.9 17.2 16.5 15.3 15.9 15.1 14.8 15.8 15.1	26.9 28.7 28.3 26.2 24.6 18.1 26.4 28.2 21.4 23.3 20.5 26.3 24.5	AUGUST 14.5 14.9 13.4 14.5 15.5 13.7 12.6 12.3 11.5 13.3 10.0 9.4 10.9	19.4 18.5 18.9 18.4 18.3 15.8 17.3 18.2 15.9 16.4 14.4 15.7 16.3	27.9 28.3 26.6 25.4 25.2 25.6 26.4 24.6 26.5 26.1 24.9 23.4	13.7 14.7 14.7 13.4 11.3 11.8 9.4 10.0 11.1 10.5 10.9 9.5	17.7 19.0 19.0 18.0 16.7 15.7 15.4 16.2 15.8 15.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14	23.2 22.4 24.8 24.3 22.7 22.9 19.1 19.6 22.2 19.2 23.7 22.2 20.7 23.0 21.7	JUNE 9.6 9.3 10.6 10.5 10.0 9.7 10.9 9.0 7.0 10.4 8.9 8.6 10.3 10.6	15.6 14.9 16.5 15.4 15.0 14.5 14.3 12.6 13.7 14.5 13.4 14.4 14.7 13.7	25.3 24.7 26.8 22.6 25.5 22.9 25.7 25.9 20.3 25.8 26.0 28.0 28.7	JULY 12.5 11.9 12.8 10.6 9.3 9.9 10.0 9.0 9.5 11.4 9.6 9.8 10.5 11.7	17.7 17.9 17.2 16.5 15.3 15.9 15.1 14.8 15.8 15.1 15.8 16.6 17.7 18.0	26.9 28.7 28.3 26.2 24.6 18.1 26.4 28.2 21.4 23.3 20.5 26.3 24.5 24.9 26.6	AUGUST 14.5 14.9 13.4 14.5 15.5 13.7 12.6 12.3 11.5 13.3 10.0 9.4 10.9 9.7	19.4 18.5 18.9 18.4 18.3 15.8 17.3 18.2 15.9 16.4 14.4 15.7 16.3 15.5	27.9 28.3 26.6 25.4 25.2 25.6 26.4 24.6 26.5 26.1 24.9 23.4 24.5	13.7 14.7 14.7 13.4 11.3 11.8 9.4 10.0 11.1 10.5 10.9 10.9 10.9	17.7 19.0 19.0 18.0 16.7 15.4 16.2 15.6 15.8 15.9 16.0 14.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	23.2 22.4 24.8 24.3 22.7 22.9 19.1 19.6 22.2 19.2 23.7 22.2 20.7 23.0 21.7	JUNE 9.6 9.3 10.6 10.5 10.0 9.7 10.9 9.0 7.0 10.4 8.9 8.6 10.3 10.6 7.9 9.2 9.1	15.6 14.9 16.5 15.4 15.0 14.5 12.6 13.7 14.5 13.4 14.4 14.7 13.7	25.3 24.7 26.8 22.6 25.6 25.5 22.9 25.7 25.9 20.3 25.8 26.0 28.0 28.7	JULY 12.5 11.9 12.8 10.6 9.3 9.9 10.0 9.0 9.5 11.4 9.6 9.8 10.5 11.7	17.7 17.9 17.2 16.5 15.3 15.9 15.3 15.1 14.8 15.8 15.8 16.6 17.7 18.0	26.9 28.7 28.3 26.2 24.6 18.1 26.4 23.3 20.5 26.3 24.5 24.9 26.6	AUGUST 14.5 14.9 13.4 14.5 15.5 13.7 12.6 12.3 11.5 13.3 10.0 9.4 10.9 9.7 9.8 10.6 10.5	19.4 18.5 18.9 18.4 18.3 15.8 17.3 15.9 16.4 14.4 15.7 16.3 15.5 16.4	27.9 28.3 26.6 25.4 25.2 25.6 26.4 24.6 26.5 26.1 24.9 23.4 24.5 21.7	13.7 14.7 14.7 13.4 11.3 11.8 9.4 10.0 11.1 10.5 10.9 9.5 10.6 9.8	17.7 19.0 19.0 18.0 16.7 15.7 15.4 16.2 15.6 15.8 15.9 16.0 14.9 15.6 14.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	23.2 22.4 24.8 24.3 22.7 22.9 19.1 19.6 22.2 19.2 23.7 22.7 22.7 22.7 23.0 21.7	9.6 9.3 10.6 10.5 10.0 9.7 10.9 9.0 7.0 10.4 8.9 8.6 10.3 10.6 7.9	15.6 14.9 16.5 15.4 15.0 14.3 12.5 12.6 13.7 14.3 14.4 14.7 13.7	25.3 24.7 26.8 22.6 25.6 25.5 22.9 25.7 25.9 20.3 25.8 26.0 28.0 28.7 27.3 27.4 25.9	JULY 12.5 11.9 12.8 10.6 9.3 9.9 10.0 10.0 9.0 9.5 11.4 9.6 9.8 10.5 11.7 11.1 10.7	17.7 17.9 17.2 16.5 15.3 15.9 15.1 14.8 15.8 15.1 15.8 16.6 17.7 18.0	26.9 28.7 28.3 26.2 24.6 18.1 26.4 28.2 21.4 23.3 20.5 26.3 24.5 24.9 26.6	AUGUST 14.5 14.9 13.4 14.5 15.5 13.7 12.6 12.3 11.5 13.3 10.0 9.4 10.9 9.7 9.8 10.6 10.5 13.4	19.4 18.5 18.9 18.4 18.3 15.8 17.3 18.2 15.9 16.4 14.4 15.7 16.3 15.5 16.4	27.9 28.3 26.6 25.4 25.2 25.6 26.4 24.6 26.5 26.1 24.9 23.4 24.5 21.7 24.2 22.2	13.7 14.7 14.7 13.4 11.3 11.8 9.4 10.0 11.1 10.5 10.9 9.5 10.6 9.8	17.7 19.0 19.0 18.0 16.7 15.4 16.2 15.6 15.8 15.9 16.9 14.9 15.6 14.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	23.2 22.4 24.8 24.3 22.7 22.9 19.1 19.6 22.2 19.2 23.7 22.2 20.7 23.0 21.7	JUNE 9.6 9.3 10.6 10.5 10.0 9.7 10.9 9.0 7.0 10.4 8.9 8.6 10.3 10.6 7.9 9.2 9.1	15.6 14.9 16.5 15.4 15.0 14.5 12.6 13.7 14.5 13.4 14.4 14.7 13.7	25.3 24.7 26.8 22.6 25.6 25.5 22.9 25.7 25.9 20.3 25.8 26.0 28.0 28.7	JULY 12.5 11.9 12.8 10.6 9.3 9.9 10.0 9.0 9.5 11.4 9.6 9.8 10.5 11.7	17.7 17.9 17.2 16.5 15.3 15.9 15.1 14.8 15.8 15.1 15.8 16.6 17.7 18.0	26.9 28.7 28.3 26.2 24.6 18.1 26.4 23.3 20.5 26.3 24.5 24.9 26.6	AUGUST 14.5 14.9 13.4 14.5 15.5 13.7 12.6 12.3 11.5 13.3 10.0 9.4 10.9 9.7 9.8 10.6 10.5	19.4 18.5 18.9 18.4 18.3 15.8 17.3 15.9 16.4 14.4 15.7 16.3 15.5 16.4	27.9 28.3 26.6 25.4 25.2 25.6 26.4 24.6 26.5 26.1 24.9 23.4 24.5 21.7	13.7 14.7 14.7 13.4 11.3 11.8 9.4 10.0 11.1 10.5 10.9 9.5 10.6 9.8	17.7 19.0 19.0 18.0 16.7 15.7 15.4 16.2 15.6 15.8 15.9 16.0 14.9 15.6 14.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	23.2 22.4 24.8 24.3 22.7 22.9 19.1 19.6 22.2 19.2 23.7 22.0.7 23.0 21.7 19.8 22.1 25.1 25.1 24.8	9.6 9.3 10.6 10.5 10.0 9.7 10.9 9.0 7.0 10.4 8.9 8.6 10.3 10.6 7.9	15.6 14.9 16.5 15.4 15.0 14.5 12.6 13.7 14.5 13.4 14.7 13.7	25.3 24.7 26.8 22.6 25.5 22.9 25.7 25.9 20.3 25.8 26.0 28.0 28.7 27.3 27.4 25.9 25.7	JULY 12.5 11.9 12.8 10.6 9.3 9.9 10.0 9.0 9.5 11.4 9.6 9.8 10.5 11.7 11.1 10.7 11.6	17.7 17.9 17.2 16.5 15.3 15.9 15.3 15.1 14.8 15.8 15.1 16.6 17.7 18.0	26.9 28.7 28.3 26.2 24.6 18.1 26.4 28.2 21.4 23.3 20.5 26.3 24.9 26.6 27.2 27.1 23.5	AUGUST 14.5 14.9 13.4 14.5 15.5 13.7 12.6 12.3 11.5 13.3 10.0 9.4 10.9 9.7 9.8 10.6 10.5 13.4 10.7	19.4 18.5 18.9 18.4 18.3 15.8 17.3 18.2 15.9 16.4 14.4 15.7 16.3 15.5 16.4	27.9 28.3 26.6 25.4 25.2 25.6 26.4 24.6 26.5 26.1 24.9 23.4 24.5 21.7 24.2 22.2 22.2	13.7 14.7 14.7 13.4 11.3 11.8 9.4 10.0 11.1 10.5 10.9 9.5 10.6 9.8 10.9 10.1 11.3 11.6	17.7 19.0 19.0 18.0 16.7 15.7 15.4 16.2 15.6 15.8 15.9 16.0 14.9 15.6 14.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	23.2 22.4 24.8 24.3 22.7 22.9 19.1 19.6 22.2 19.2 23.7 22.2 20.7 23.0 21.7 19.8 22.1 25.7 24.8 24.1	JUNE 9.6 9.3 10.6 10.5 10.0 9.7 10.9 9.0 7.0 10.4 8.9 8.6 10.3 10.6 7.9 9.2 9.1 9.4 10.9 11.1 10.5 12.2	15.6 14.9 16.5 15.4 15.0 14.5 14.3 12.6 13.7 14.5 13.4 14.4 14.7 13.7	25.3 24.7 26.8 22.6 25.6 25.5 22.9 25.7 25.9 20.3 25.8 26.0 28.7 27.3 27.4 25.9 25.1 25.9	JULY 12.5 11.9 12.8 10.6 9.3 9.9 10.0 10.0 9.5 11.4 9.6 9.8 10.5 11.7 11.1 10.7 11.6 13.1 12.7 12.4	17.7 17.9 17.2 16.5 15.3 15.9 15.1 14.8 15.8 15.1 15.8 16.6 17.7 18.0	26.9 28.7 28.3 26.2 24.6 18.1 26.4 23.3 20.5 26.3 24.9 26.6 27.2 27.1 23.5 25.2	AUGUST 14.5 14.9 13.4 14.5 15.5 13.7 12.6 12.3 11.5 13.3 10.0 9.4 10.9 9.7 9.8 10.6 10.5 13.4 10.7 11.0 11.8	19.4 18.5 18.9 18.4 18.3 15.8 17.3 18.2 15.9 16.4 14.4 15.7 16.3 15.5 16.4 16.6 17.6 15.6 15.6 15.8	27.9 28.3 26.6 25.4 25.2 25.6 26.4 24.6 26.5 26.1 24.9 23.4 24.5 21.7 24.2 22.2 22.8 14.1	13.7 14.7 14.7 13.4 11.3 11.8 9.4 10.0 11.1 10.5 10.9 10.9 9.5 10.6 9.8 10.9 10.1 11.3 11.3 11.6 10.7	17.7 19.0 19.0 18.0 16.7 15.7 15.6 16.2 15.6 15.8 15.9 16.0 14.5 15.6 14.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	23.2 22.4 24.8 24.3 22.7 22.9 19.1 19.6 22.2 19.2 23.7 22.0.7 23.0 21.7 19.8 22.1 25.1 24.8 24.1	9.6 9.3 10.6 10.5 10.0 9.7 10.9 9.0 7.0 10.4 8.9 8.6 10.3 10.6 7.9 9.1 9.1 9.1	15.6 14.9 16.5 15.4 15.0 14.5 12.6 13.7 14.5 13.4 14.7 13.7 13.8 14.5 16.5 16.4	25.3 24.7 26.8 22.6 25.5 22.9 25.7 25.9 20.3 25.8 26.0 28.0 28.7 27.3 27.4 25.9 25.7	JULY 12.5 11.9 12.8 10.6 9.3 9.9 10.0 9.0 9.5 11.4 9.6 9.8 10.5 11.7 11.1 10.7 11.6 13.1	17.7 17.9 17.2 16.5 15.3 15.9 15.1 14.8 15.8 15.1 16.6 17.7 18.0 16.7 16.3 16.1 17.1	26.9 28.7 28.3 26.2 24.6 18.1 26.4 28.2 21.4 23.3 20.5 24.5 24.9 26.6 27.2 27.1 23.5 25.2	AUGUST 14.5 14.9 13.4 14.5 15.5 13.7 12.6 12.3 11.5 13.3 10.0 9.4 10.9 9.7 9.8 10.6 10.5 13.4 10.7 11.0	19.4 18.5 18.9 18.4 18.3 15.8 17.3 18.2 15.9 16.4 14.4 15.7 16.3 15.5 16.4 16.6 17.6 15.6 16.8	27.9 28.3 26.6 25.4 25.2 25.6 26.4 24.6 26.5 26.1 24.9 23.4 24.5 21.7 24.2 22.2 22.8 14.1 16.2	13.7 14.7 14.7 13.4 11.3 11.8 9.4 10.0 11.1 10.5 10.9 9.5 10.6 9.8 10.9 10.1 11.3 11.6 10.7	17.7 19.0 19.0 18.0 16.7 15.7 15.4 16.2 15.6 15.8 15.9 16.0 14.9 15.6 14.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	23.2 22.4 24.8 24.3 22.7 22.9 19.1 19.6 22.2 19.2 23.7 22.7 22.7 22.7 23.0 21.7 19.8 22.1 25.7 24.8 24.1	9.6 9.3 10.6 10.5 10.0 9.7 10.9 9.0 7.0 10.4 8.6 10.3 10.6 7.9 9.2 9.1 9.1 9.1 10.9	15.6 14.9 16.5 15.4 15.0 14.3 12.5 12.6 13.7 14.3 14.4 14.7 13.7 13.8 14.5 16.0 17.0 16.5	25.3 24.7 26.8 22.6 25.6 25.5 22.9 25.7 25.9 20.3 25.8 26.0 28.0 28.7 27.3 27.4 25.9 25.1 25.8	JULY 12.5 11.9 12.8 10.6 9.3 9.9 10.0 9.0 9.5 11.4 9.6 9.8 10.5 11.7 11.1 10.7 11.6 13.1 12.7 12.4 12.8	17.7 17.9 17.2 16.5 15.3 15.9 15.3 15.1 14.8 15.8 15.8 16.6 17.7 18.0 16.7 16.3 16.1 17.1 17.4	26.9 28.7 28.3 26.2 24.6 18.1 26.4 28.2 21.4 23.3 20.5 26.3 24.5 24.9 26.6 27.1 23.5 25.2	AUGUST 14.5 14.9 13.4 14.5 15.5 13.7 12.6 12.3 11.5 13.3 10.0 9.4 10.9 9.7 9.8 10.6 10.5 13.4 10.7 11.0 11.0 11.8	19.4 18.5 18.9 18.4 18.3 15.8 17.3 18.2 15.9 16.4 14.4 15.7 16.3 15.5 16.4 16.5 16.6 17.6 15.6 17.6 17.6	27.9 28.3 26.6 25.4 25.2 25.6 26.4 24.6 26.5 26.1 24.9 23.4 24.5 21.7 24.2 22.2 22.8 14.1 16.2 16.7 18.0	13.7 14.7 14.7 13.4 11.3 11.8 9.4 10.0 11.1 10.5 10.9 9.5 10.6 9.8 10.9 10.1 11.3 11.6 10.7	17.7 19.0 19.0 18.0 16.7 15.4 16.2 15.6 15.8 15.9 16.0 14.9 15.6 14.5 15.5 15.0 14.7 15.5 15.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	23.2 22.4 24.8 24.3 22.7 22.9 19.1 19.6 22.2 19.2 23.7 22.0.7 23.0 21.7 19.8 22.1,7 24.8 24.1 24.2 23.9 22.5 23.7 24.8 24.1	9.6 9.3 10.6 10.5 10.0 9.7 10.9 9.0 7.0 10.4 8.9 8.6 10.3 10.6 7.9 9.1 9.1 10.9	15.6 14.9 16.5 15.4 15.0 14.5 12.6 13.7 14.5 13.4 14.7 13.7 13.8 14.5 16.5 16.4 17.1 16.6 16.3 16.6	25.3 24.7 26.8 22.6 25.6 25.5 22.9 25.7 25.9 20.3 25.8 26.0 28.0 27.3 27.4 27.4 25.9 25.1 25.8 26.9 29.9 25.7	JULY 12.5 11.9 12.8 10.6 9.3 9.9 10.0 10.0 9.5 11.4 9.6 9.8 10.5 11.7 11.1 10.7 11.6 13.1 12.7 12.4 12.8 12.8 12.3	17.7 17.9 17.2 16.5 15.3 15.9 15.3 15.1 14.8 15.8 15.1 16.6 17.7 18.0 16.7 16.3 16.1 17.1 17.4	26.9 28.7 28.3 26.2 24.6 18.1 26.4 28.2 21.4 23.3 20.5 26.5 24.9 26.6 26.0 27.2 27.1 23.5 25.2 24.4 28.7 27.9 27.4	AUGUST 14.5 14.9 13.4 14.5 15.5 13.7 12.6 12.3 11.5 13.3 10.0 9.4 10.9 9.7 9.8 10.6 10.5 13.4 10.7 11.0 11.0 11.8	19.4 18.5 18.9 18.4 18.3 15.8 17.3 18.2 15.9 16.4 14.4 15.7 16.3 15.5 16.4 16.6 17.6 15.6 16.8 15.9 17.8 17.6	27.9 28.3 26.6 25.4 25.2 25.6 26.4 24.6 26.5 26.1 24.9 23.4 24.5 21.7 24.2 22.2 22.2 22.8 14.1 16.2 16.7 18.0 20.3	13.7 14.7 14.7 13.4 11.3 11.8 9.4 10.0 11.1 10.5 10.9 9.5 10.6 9.8 10.9 10.1 11.3 11.6 10.7 10.4 10.3 10.0 9.5	17.7 19.0 19.0 18.0 16.7 15.7 15.4 16.2 15.6 15.8 15.9 16.0 14.9 15.6 14.5 15.5 15.5 12.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	23.2 22.4 24.8 24.3 22.7 22.9 19.1 19.6 22.2 19.2 23.7 22.2 20.7 21.7 19.8 22.1 25.7 24.8 24.1 24.2 23.9 22.6 21.9 22.5	JUNE 9.6 9.3 10.6 10.5 10.0 9.7 10.9 9.0 7.0 10.4 8.9 8.6 10.3 10.6 7.9 9.2 9.1 9.4 10.9 11.1 10.5 12.2 11.8 11.8 12.3	15.6 14.9 16.5 15.4 15.0 14.5 12.6 13.7 14.5 13.4 14.4 14.7 13.7 13.8 14.5 16.6 16.3 16.6 16.6	25.3 24.7 26.8 22.6 25.6 25.5 22.9 25.7 25.9 20.3 25.8 26.0 28.7 27.3 27.4 25.9 25.1 25.1 27.4 25.9 25.1 27.4 25.9	JULY 12.5 11.9 12.8 10.6 9.3 9.9 10.0 10.0 9.5 11.4 9.6 9.8 10.5 11.7 11.1 10.7 11.6 13.1 12.7 12.4 12.8 12.8 12.3 13.0 14.2	17.7 17.9 17.2 16.5 15.3 15.9 15.1 14.8 15.8 15.1 15.8 16.6 17.7 18.0 16.7 16.3 16.1 17.1 17.4 17.1 17.9 19.3 18.3	26.9 28.7 28.3 26.2 24.6 18.1 26.4 23.3 20.5 26.3 24.9 26.6 27.2 27.1 23.5 25.2 24.4 28.7 27.9 26.8	AUGUST 14.5 14.9 13.4 14.5 15.5 13.7 12.6 12.3 11.5 13.3 10.0 9.4 10.9 9.7 9.8 10.6 10.5 13.4 10.7 11.0 11.8 11.8 12.7 14.2 12.4	19.4 18.5 18.9 18.4 18.3 15.8 17.3 18.2 15.9 16.4 14.4 15.7 16.3 15.5 16.4 16.5 16.6 17.6 15.6 17.6 18.8 17.8 17.6 18.1 17.6	27.9 28.3 26.6 25.4 25.2 25.6 26.4 24.6 26.5 26.1 24.9 23.4 24.5 21.7 24.2 22.2 22.8 14.1 16.2 16.7 18.0 20.3 20.8	13.7 14.7 14.7 13.4 11.3 11.8 9.4 10.0 11.1 10.5 10.9 10.6 9.8 10.9 10.1 11.3 11.6 10.7 10.4 10.3 10.0 9.5	17.7 19.0 19.0 18.0 16.7 15.4 16.2 15.6 15.8 15.9 16.0 14.9 15.6 14.5 15.0 14.7 15.5 12.0 12.5 13.1 13.0 13.9 14.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	23.2 22.4 24.8 24.3 22.7 22.9 19.1 19.6 22.2 19.2 23.7 22.7 23.0 21.7 19.8 22.1 25.7 24.8 24.1 24.2 23.9 22.6 21.9 22.5	9.6 9.3 10.6 10.5 10.0 9.7 10.9 9.0 7.0 10.4 8.9 8.6 10.3 10.6 7.9 9.1 9.1 9.1 9.1 10.9	15.6 14.9 16.5 15.4 15.0 14.3 12.5 12.6 13.7 14.3 14.4 14.7 13.7 13.8 14.5 16.0 17.0 16.5 16.4 17.0 16.6 16.3 16.6 16.6 16.6 16.9	25.3 24.7 26.8 22.6 25.6 25.5 22.9 25.7 25.9 20.3 26.0 28.0 28.7 27.3 27.4 25.9 25.1 25.8 26.9 25.1 27.4 25.9 25.7 27.3 27.4 25.9	JULY 12.5 11.9 12.8 10.6 9.3 9.9 10.0 9.0 9.5 11.4 9.6 9.8 10.5 11.7 11.1 10.7 11.6 13.1 12.7 12.8 12.8 12.8 12.3 13.0 14.2 14.8	17.7 17.9 17.2 16.5 15.3 15.9 15.3 15.1 14.8 15.8 15.1 16.6 17.7 18.0 16.7 16.3 16.1 17.1 17.4 17.1 18.0 17.9 19.3 18.3	26.9 28.7 28.3 26.2 24.6 18.1 26.4 28.2 21.4 23.3 20.5 26.3 24.5 24.9 26.6 27.1 23.5 25.2 24.4 28.2 21.4 23.3	AUGUST 14.5 14.9 13.4 14.5 15.5 13.7 12.6 12.3 11.5 13.3 10.0 9.4 10.9 9.7 9.8 10.6 10.5 13.4 10.7 11.0 11.0 11.8 12.7 14.2 12.4 13.6	19.4 18.5 18.9 18.4 18.3 15.8 17.3 18.2 15.9 16.4 14.4 15.7 16.3 15.5 16.4 16.6 17.6 15.6 17.8 17.6 17.6 18.1 17.6	27.9 28.3 26.6 25.4 25.2 25.6 26.4 24.9 23.4 24.5 21.7 24.2 22.2 22.8 14.1 16.2 16.7 18.0 20.3 20.8 17.2 21.6 20.6	13.7 14.7 14.7 13.4 11.3 11.8 9.4 10.0 11.1 10.5 10.9 9.5 10.6 9.8 10.9 10.1 11.3 11.6 10.7 10.4 10.3 10.0 9.5	17.7 19.0 19.0 18.0 16.7 15.4 16.2 15.6 15.8 15.9 14.9 15.6 14.5 15.5 15.5 12.0 12.5 13.1 13.0 13.9 14.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	23.2 22.4 24.8 24.3 22.7 22.9 19.1 19.6 22.2 19.2 23.7 22.0.7 23.0 21.7 19.8 22.1, 24.8 24.1 24.2 23.9 22.5 24.8 24.1 25.7 26.7 27.7 27.7 27.7 27.7 27.7 27.7 27	JUNE 9.6 9.3 10.6 10.5 10.0 9.7 10.9 9.0 7.0 10.4 8.9 8.6 10.6 7.9 9.2 9.1 10.9 11.1 10.5 12.2 11.8 11.8 12.3 12.1 11.8 12.0 12.6 12.5	15.6 14.9 16.5 15.4 15.0 14.5 12.6 13.7 14.5 13.4 14.7 13.7 13.8 14.5 16.0 17.0 16.5 16.4 17.1 16.6 16.6 16.6 16.7 17.7 18.1	25.3 24.7 26.8 22.6 25.6 25.5 22.9 25.7 25.9 20.3 25.8 26.0 28.7 27.3 27.4 25.9 25.1 27.4 25.9 25.1 27.4 25.9 26.2 28.2 29.8 27.1 29.8 27.1	JULY 12.5 11.9 12.8 10.6 9.3 9.9 10.0 10.0 9.5 11.4 9.6 9.8 10.5 11.7 11.1 10.7 11.6 13.1 12.7 12.4 12.8 12.8 12.3 13.0 14.2 14.8 14.1 15.2	17.7 17.9 17.2 16.5 15.3 15.9 15.1 14.8 15.8 15.1 16.6 17.7 18.0 16.7 16.3 16.1 17.1 17.4 17.1 18.0 17.9 19.3 18.3	26.9 28.7 28.3 26.2 24.6 18.1 26.4 23.3 20.5 26.3 24.5 24.9 26.6 27.2 27.1 23.5 25.2 24.4 28.7 27.9 26.8 26.4 27.7 27.4 26.8	AUGUST 14.5 14.9 13.4 14.5 15.5 13.7 12.6 12.3 11.5 13.3 10.0 9.4 10.9 9.7 9.8 10.6 10.5 13.4 10.7 11.0 11.8 12.7 14.2 12.4 13.6 13.4 13.2	19.4 18.5 18.9 18.4 18.3 15.8 17.3 18.2 15.9 16.4 14.4 15.7 16.6 17.6 16.6 17.6 17.6 18.3 18.5 17.6 18.3 18.5 18.9	27.9 28.3 26.6 25.4 25.2 25.6 26.4 24.6 26.5 26.1 24.9 23.4 24.5 21.7 24.2 22.2 22.8 14.1 16.2 16.7 18.0 20.3 20.8 17.2 21.6 20.6 21.0 21.2	13.7 14.7 14.7 13.4 11.3 11.8 9.4 10.0 11.1 10.5 10.9 9.5 10.6 9.8 10.9 10.1 11.3 11.6 10.7 10.4 10.3 10.0 9.5 11.2 10.9 9.5 8.7 9.3	17.7 19.0 19.0 18.0 16.7 15.7 15.4 16.2 15.6 15.8 15.9 16.0 14.9 15.6 14.5 15.5 12.0 12.5 13.1 13.0 13.9 14.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	23.2 22.4 24.8 24.3 22.7 22.9 19.6 22.2 19.2 23.7 22.0.7 23.0 21.7 19.8 22.17 24.8 24.1 24.2 23.9 22.5 22.7 22.5 23.7 24.8 24.1	9.6 9.3 10.6 10.5 10.0 9.7 10.9 9.0 7.0 10.4 8.9 8.6 10.3 10.6 7.9 9.1 9.1 10.9 11.1 10.5 11.8 12.3 12.6	15.6 14.9 16.5 15.4 15.0 14.5 12.6 13.7 14.5 13.4 14.7 13.7 13.8 14.5 16.0 16.5 16.4 17.0 16.5 16.6 16.3 16.6	25.3 24.7 26.8 22.6 25.6 25.5 22.9 25.7 25.9 20.3 25.8 26.0 28.0 27.3 27.4 27.4 25.9 25.1 25.8 26.9 29.9 25.7	JULY 12.5 11.9 12.8 10.6 9.3 9.9 10.0 10.0 9.5 11.4 9.6 9.8 10.5 11.7 11.1 10.7 11.6 13.1 12.7 12.4 12.8 12.3 13.0 14.2 14.8 14.1	17.7 17.9 17.2 16.5 15.3 15.9 15.1 14.8 15.1 15.8 15.1 16.6 17.7 18.0 16.7 16.3 17.1 17.4 17.1 18.0 17.7 18.3 17.1 17.4 17.7	26.9 28.7 28.3 26.2 24.6 18.1 26.4 28.2 21.4 23.3 20.5 24.5 24.9 26.6 26.0 27.2 27.1 23.5 25.2 24.4 28.7 27.9 27.4 26.8 26.4 27.7 27.4 26.8	AUGUST 14.5 14.9 13.4 14.5 15.5 13.7 12.6 12.3 11.5 13.3 10.0 9.4 10.9 9.7 9.8 10.6 10.5 13.4 10.7 11.0 11.0 11.8 12.7 14.2 12.4 13.6 13.4	19.4 18.5 18.9 18.4 18.3 15.8 17.3 18.2 15.9 16.4 14.4 15.7 16.3 15.5 16.4 16.5 16.6 17.6 17.6 18.1 17.6 18.3 18.5 18.9 17.6	27.9 28.3 26.6 25.4 25.2 25.6 26.4 24.6 26.5 26.1 24.9 23.4 24.5 21.7 24.2 22.2 22.8 14.1 16.2 16.7 18.0 20.3 20.8 17.2 21.6 20.6 20.6 21.0	13.7 14.7 14.7 13.4 11.3 11.8 9.4 10.0 11.1 10.5 10.9 9.5 10.6 9.8 10.9 10.1 11.3 11.6 10.7 10.4 10.3 10.0 9.5	17.7 19.0 19.0 18.0 16.7 15.7 15.6 15.8 15.9 16.0 14.9 15.6 14.5 15.5 15.0 14.5 15.5 15.5 12.0 12.5 13.1 13.0 13.9 14.0

07094500 ARKANSAS RIVER AT PARKDALE, CO

LOCATION.--Lat 38°29'14", long 105°22'23", in NE¹/4NW¹/4 sec.18, T.18 S., R.71 W., Fremont County, Hydrologic Unit 11020001, on left bank at Parkdale, 100 ft upstream from Bumback Gulch, 300 ft upstream from bridge on U.S. Highway 50, and 0.9 mi upstream from Copper Gulch.

DRAINAGE AREA.--2,548 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1945 to September 1955, October 1964 to September 1994, April 1995 to current year (seasonal record only). Monthly discharge only for October 1945 to May 1946, published in WSP 1311. Water-quality data available November 1986 to September 1993.

REVISED RECORDS .-- WSP 1117: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,720 ft above sea level, from topographic map. Prior to Oct. 1, 1964, at site 600 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, diversions for irrigation of about 35,000 acres upstream from station, and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,830 ft³/s, June 18, 1995, gage height 8.82 ft; maximum gage height, 9.13 ft, June 9, 1985; minimum daily, 199 ft³/s, Mar. 17, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 4,990 ft³/s, June 21, gage height, 7.48 ft; minimum daily, 420 ft³/s, May 5.

			DISCHA	ARGE, CUBI	C FEET PER		WATER YEA MEAN VAL		R 1996 TO S	EPTEMBER 1	1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e450						605	549	2480	e3010	1480	804
2							631	514	3640	2680	1560	791
3							624	453	4150	2370	1530	797
4							623	430	4340	2260	1500	730
5							630	420	4260	2260	1530	685
6							585	468	4040	2170	1670	646
7							572	581	4050	2090	2010	617
8						768	561	646	3990	2060	1830	617
9						787	563	700	4010	1770	1660	577
10						787	508	845	3830	1550	1650	559
11						783	473	947	3800	1600	1740	560
12						768	444	1010	3800	1590	1710	549
13						761	449	1000	3990	1520	1650	549
14						762	451	1180	3980	1480	1660	558
15						738	449	1260	3920	1600	1650	549
16						713	467	1400	3790	1770	1510	527
17						719	454	1630	3500	1820	1420	523
18						689	467	1830	3530	1810	1380	500
19						648	496	1960	3940	1790	1310	480
20						652	513	2110	4580	1850	1230	495
21						669	529	2230	4830	1810	1130	624
22						671	570	2300	4760	1660	1070	772
23						663	541	2480	4540	1620	968	724
24						653	640	2380	4350	1590	853	696
25						652	641	2430	4090	1530	838	732
26						625	591	2160	e3500	1410	867	693
27						626	628	1970	e3300	1370	874	701
28						611	596	1620	e3210	1460	856	731
29						608	613	1490	e3170	1520	803	714
30						618	607	1590	e3100	1510	781	667
31						592		1890		1490	757	
TOTAL							16521	42473	116470	56020	41477	19167
MEAN							551	1370	3882	1807	1338	639
MAX							641	2480	4830	3010	2010	804
MIN							444	420	2480	1370	757	480
AC-FT							32770	84250	231000	111100	82270	38020

e-Estimated.

07094500 ARKANSAS RIVER AT PARKDALE, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1981 to September 1982, November 1986 to September 1993. April 1996 to current year (seasonal only).

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: November 1986 to September 1993.

WATER TEMPERATURE: November 1986 to September 1993, April 1996 to current year (seasonal only).

INSTRUMENTATION.--Water-temperature probe with satellite telemetry.

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

EXTREMES FOR PERIOD OF DAILY RECORD .--

WATER TEMPERATURE: Maximum, 25.5°C, July 23, 1987; minimum, 0.0°C, on many days during the winter months.

EXTREMES FOR CURRENT YEAR .--

WATER TEMPERATURE: Maximum during period of seasonal operation, 22.6°C, Aug. 28; minimum, 1.2°C, Apr. 12.

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	VEMBER		DE	CEMBER			JANUARY	7
1												
2												
3												
4												
5												
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7												
8												
9												
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11												
12												
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22												
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25												
26												
27												
28												
29												
30												
31												
MONTH												

07094500 ARKANSAS RIVER AT PARKDALE, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	 	 	 	 	 		8.9 7.7 9.2 10.1 8.9	7.7 5.1 4.1 4.8 5.5	8.3 6.5 6.8 8.1 7.2	12.3 10.9 13.4 15.9 17.6	10.1 8.3 9.1 10.4 11.4	11.3 9.8 11.3 13.0 14.2
6 7 8 9 10	 	 	 	 7.2 7.8 7.7	3.0 3.8 4.4	 5.1 5.8 5.8	7.9 9.6 9.9 8.8 8.5	4.4 5.1 6.2 5.7 2.6	6.1 7.3 7.9 7.4 5.4	15.6 14.7 13.7 14.5 14.9	12.9 13.1 12.1 11.1 12.9	14.3 13.9 12.9 12.8 14.0
11 12 13 14 15	 	 	 	8.6 8.7 8.9 6.0 6.0	3.8 5.2 4.9 2.4 2.2	6.3 6.7 6.7 4.6 4.1	4.6 8.7 10.0 11.2 12.1	1.3 1.2 2.7 5.0 6.4	2.8 4.0 6.1 7.4 9.0	14.6 15.0 15.3 14.7 16.0	13.0 12.1 11.9 12.5 12.4	14.0 13.6 13.9 13.7 14.2
16 17 18 19 20	 	 	 	9.3 10.3 10.3 11.1 12.2	4.3 6.4 5.7 5.9 7.1	6.8 8.0 8.0 8.6 9.7	13.9 14.7 14.7 14.4 14.0	9.3 9.6 11.0 11.1 11.5	11.3 12.2 12.7 12.7 12.9	15.4 15.1 14.6 13.7 14.0	13.5 12.6 13.0 11.5 11.6	14.4 14.0 13.8 12.6 12.7
21 22 23 24 25	 	 	 	10.1 10.8 12.6 9.6 9.1	8.0 6.9 7.9 5.4 4.0	9.0 8.8 10.1 7.7 6.6	13.0 12.2 11.6 10.5 7.6	11.5 9.9 10.5 6.4 5.6	12.2 11.1 10.9 8.5 6.5	13.2 13.0 12.8 12.4 13.1	11.5 11.8 11.1 11.6 10.8	12.4 12.5 12.0 12.0 11.9
26 27 28 29 30 31	 	 	 	10.5 11.3 11.1 9.7 10.7 11.4	5.3 6.8 7.0 7.2 5.9 6.7	8.0 9.1 9.1 8.2 8.4 8.9	9.7 12.0 12.9 13.7 13.2	6.0 7.8 10.6 10.9 10.2	7.8 9.9 11.8 12.2 11.7	13.5 12.5 13.4 13.6 15.8 16.5	11.4 10.4 10.3 11.9 12.9 13.7	12.4 11.6 11.7 12.7 14.1 15.1
MONTH							14.7	1.2	8.8	17.6	8.3	13.0
		JUNE			JULY			AUGUST			SEPTEMBE	
1 2 3 4 5	16.2 15.7 14.9 15.3 14.8	JUNE 14.3 13.4 12.9 13.2 13.0	15.4 14.7 14.0 14.2 13.9	16.8 16.3 16.5 17.6 17.0	JULY 14.8 14.2 14.2 14.8 14.9	15.6 15.3 15.4 16.2 16.1	20.7 20.4 20.6 19.7 19.6		18.8 19.4 18.9 18.5 18.3		SEPTEMBE 16.2 17.2 18.8 18.3 17.2	
1 2 3 4	15.7 14.9 15.3	14.3 13.4 12.9 13.2	15.4 14.7 14.0 14.2	16.3 16.5 17.6	14.8 14.2 14.2 14.8	15.3 15.4 16.2	20.7 20.4 20.6 19.7	17.2 18.4 17.2 17.3	18.8 19.4 18.9 18.5	19.8 20.3 21.9 21.9	16.2 17.2 18.8 18.3	18.2 18.9 20.4 20.0
1 2 3 4 5 6 7 8 9	15.7 14.9 15.3 14.8 14.1 13.5 12.8 11.9	14.3 13.4 12.9 13.2 13.0 12.0 11.9 11.7	15.4 14.7 14.0 14.2 13.9 13.1 12.6 12.1 11.1	16.3 16.5 17.6 17.0 17.6 17.3 16.1	14.8 14.2 14.2 14.8 14.9 14.1 14.3 13.3 13.5	15.3 15.4 16.2 16.1 15.8 15.9 15.1 15.4	20.7 20.4 20.6 19.7 19.6 18.5 16.7 18.9 18.2	AUGUST 17.2 18.4 17.2 17.3 17.2 15.8 14.3 15.3 16.2	18.8 19.4 18.9 18.5 18.3 17.1 15.5 17.0 17.4	19.8 20.3 21.9 21.9 20.9 21.1 20.4 20.5 19.8	16.2 17.2 18.8 18.3 17.2 17.1 15.4 15.7 16.0	18.2 18.9 20.4 20.0 19.1 18.6 17.8 18.0 17.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14	15.7 14.9 15.3 14.8 14.1 13.5 12.8 11.9 13.3 13.9 13.4 13.9 14.3	14.3 13.4 12.9 13.2 13.0 12.0 11.9 11.7 10.2 11.0 11.1 11.8 11.7 12.2	15.4 14.7 14.0 14.2 13.9 13.1 12.6 12.1 11.1 12.2 12.5 12.7 13.2	16.3 16.5 17.6 17.0 17.6 17.3 16.1 17.1 17.8 17.3 18.2 18.8	14.8 14.2 14.2 14.8 14.9 14.1 14.3 13.3 13.5 14.1 15.7 14.0 14.9 16.4	15.3 15.4 16.2 16.1 15.8 15.9 15.1 15.4 16.0 16.3 16.0 18.1	20.7 20.4 20.6 19.7 19.6 18.5 16.7 18.9 18.2 17.7	AUGUST 17.2 18.4 17.2 17.3 17.2 15.8 14.3 15.3 16.2 15.9 14.9 14.5 15.5 14.8	18.8 19.4 18.9 18.5 18.3 17.1 15.5 17.0 17.4 16.8 16.1 16.2 16.8	19.8 20.3 21.9 21.9 20.9 21.1 20.4 20.5 19.8 20.0 19.7 21.1 20.3 19.8	16.2 17.2 18.8 18.3 17.2 17.1 15.4 15.7 16.0 14.9 15.6 16.1 15.6	18.2 18.9 20.4 20.0 19.1 18.6 17.4 17.2 17.5 18.4 17.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	15.7 14.8 14.1 13.5 12.8 11.9 13.3 13.9 13.4 13.9 14.3 13.6	14.3 13.4 12.9 13.2 13.0 12.0 11.9 11.7 10.2 11.0 11.1 11.8 11.7 12.2 11.4 11.7 12.2 11.4	15.4 14.7 14.0 14.2 13.9 13.1 12.6 12.1 11.1 12.2 12.5 12.7 13.2 12.5 12.3 13.2 14.9	16.3 16.5 17.6 17.0 17.6 17.3 16.1 17.1 17.8 17.3 18.2 18.8 19.8 19.7	14.8 14.2 14.2 14.8 14.9 14.1 14.3 13.3 13.5 14.1 15.7 14.0 14.9 16.4 17.3 16.6 15.6 15.9 15.4	15.3 15.4 16.2 16.1 15.8 15.9 15.1 16.0 16.3 16.0 16.9 18.1 18.5 17.8 17.8 16.8	20.7 20.4 20.6 19.7 19.6 18.5 16.7 18.9 18.2 17.7 17.4 17.9 18.2 17.5 18.3 18.9 19.0	AUGUST 17.2 18.4 17.2 17.3 17.2 15.8 14.3 15.3 16.2 15.9 14.9 14.5 14.5 14.8 14.6	18.8 19.4 18.9 18.5 18.3 17.1 15.5 17.0 17.4 16.8 16.1 16.2 16.8 16.3 16.5	19.8 20.3 21.9 21.9 20.9 21.1 20.4 20.5 19.8 20.0 19.7 21.1 20.3 19.8 19.2	16.2 17.2 18.8 18.3 17.2 17.1 15.4 15.7 16.0 14.9 15.6 16.1 15.9 15.4	18.2 18.9 20.4 20.0 19.1 18.6 17.4 17.2 17.5 18.4 17.7 17.8 16.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	15.7 14.8 14.1 13.5 12.8 11.9 13.4 13.9 14.3 13.6 13.0 14.5 15.7 15.7 15.7 15.7	14.3 13.4 12.9 13.2 13.0 12.0 11.7 10.2 11.0 11.1 11.8 11.7 12.2 11.4 11.7 12.8 13.6 13.7	15.4 14.7 14.0 14.2 13.9 13.1 12.6 12.1 11.1 12.2 12.5 12.7 13.2 12.5 12.7 13.2 14.8 14.9 14.8	16.3 16.5 17.6 17.0 17.6 17.3 16.1 17.1 17.8 17.3 18.2 18.8 19.8 19.7 18.8 19.7 18.8 19.7 18.8 19.7	14.8 14.2 14.2 14.8 14.9 14.1 14.3 13.3 13.5 14.1 15.7 14.0 16.4 17.3 16.6 15.6 15.9 15.4 16.1	15.3 15.4 16.2 16.1 15.8 15.9 15.1 16.0 16.3 16.0 16.9 18.1 17.8 17.8 17.1 16.8 17.1 17.2 17.6 18.4	20.7 20.4 20.6 19.7 19.6 18.5 16.7 18.9 18.2 17.7 17.4 17.9 18.3 18.9 19.0 19.2 18.6 19.2	AUGUST 17.2 18.4 17.2 17.3 17.2 15.8 14.3 15.3 16.2 15.9 14.9 14.5 14.8 14.6 15.5 16.9 16.1 15.8	18.8 19.4 18.9 18.5 18.3 17.1 15.5 17.0 17.4 16.8 16.1 16.8 16.3 16.5 17.6 17.6 17.7 17.6 17.6 17.7 17.6	19.8 20.3 21.9 21.9 20.9 21.1 20.4 20.5 19.8 20.0 19.7 21.1 20.3 19.8 19.2 20.1 19.8 19.2	16.2 17.2 18.8 18.3 17.2 17.1 15.4 15.7 16.0 14.9 15.6 16.1 15.6 15.9 15.4 14.5 14.6 15.4 12.5	18.2 18.9 20.4 20.0 19.1 18.6 17.4 17.2 17.5 18.4 17.7 17.8 16.5 16.7 17.1 13.8 12.5 13.5 13.5 14.0

07096000 ARKANSAS RIVER AT CANON CITY, CO

LOCATION.--Lat 38°26'02", long 105°15'24", in SE¹/4SE¹/4 sec.31, T.18 S., R.72 W., Fremont County, Hydrologic Unit 11020002, on right bank 800 ft upstream from Sand Creek, 0.7 mi downstream from Grape Creek, and 0.7 mi upstream from First Street Bridge in Canon City.

DRAINAGE AREA.--3,117 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1117: Drainage area. WSP 1311: 1897-98.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,342.13 ft above sea level. See WSP 1711 or 1731 for history of changes prior to Oct. 1, 1957. Oct. 1, 1957 to Nov. 15, 1962, water-stage recorder at present site at datum 1.49 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 250 acres upstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES DAY OCT NOV DEC JAN EEB MAD ADD MAY JUN JUL AUG SED													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	349	407	400	461	529	644	591	465	2380	2750	1340	622	
2	346	398	395	464	519	671	608	433	3440	2480	1430	602	
3	344	394	429	466	504	675	604	378	4180	2210	1380	598	
4	e335	403	425	476	499	675	576	355	4510	2080	1350	559	
5	e325	408	448	449	502	684	586	339	4380	2060	1370	525	
6	e314	410	463	433	518	729	529	363	3970	1980	1530	498	
7	301	405	470	418	511	734	499	410	4000	1900	1880	480	
8	277	375	465	409	504	741	488	460	4080	1880	1730	474	
9	268	397	475	417	496	762	490	500	4240	1610	1540	439	
10	224	407	477	416	500	765	440	642	3940	1360	1590	423	
11	219	397	495	421	508	764	405	753	3840	1410	1670	414	
12	215	393	491	375	515	775	377	838	3820	1410	1660	389	
13	212	382	489	359	519	803	378	838	4060	1330	1600	388	
14	203	380	478	441	513	814	381	1010	4050	1290	1600	393	
15	205	372	459	499	556	773	372	1100	3950	1410	1580	389	
16	216	386	430	456	561	734	404	1260	3770	1610	1350	376	
17	222	411	478	468	564	723	412	1580	3420	1670	1210	371	
18	267	411	378	477	572	696	407	1810	3440	1670	1170	357	
19	278	437	340	498	580	642	418	1980	3910	1650	1100	341	
20	320	442	408	477	569	640	423	2130	4480	1730	997	361	
21	325	442	460	464	592	655	447	2300	4670	1720	889	472	
22	312	435	484	468	548	659	603	2440	4610	1530	831	589	
23	330	428	499	438	571	650	571	2580	4420	1500	759	585	
24	352	420	488	432	577	639	584	2450	4250	1470	665	556	
25	334	398	440	430	572	646	620	2490	3990	1410	643	584	
26 27 28 29 30 31	360 379 398 414 408 405	391 398 402 393 404	465 484 483 476 460 458	423 428 429 437 455 485	637 622 639 	615 621 625 617 621 584	556 588 526 532 527	2230 1950 1580 1430 1530 1840	3420 3210 2960 2840 2810	1280 1240 1320 1390 1390	660 658 648 610 594 595	584 594 625 605 571	
TOTAL	9457	12126	14090	13769	15297	21376	14942	40464	115040	51110	36629	14764	
MEAN	305	404	455	444	546	690	498	1305	3835	1649	1182	492	
MAX	414	442	499	499	639	814	620	2580	4670	2750	1880	625	
MIN	203	372	340	359	496	584	372	339	2380	1240	594	341	
AC-FT	18760	24050	27950	27310	30340	42400	29640	80260	228200	101400	72650	29280	
STATIST MEAN	ICS OF M	ONTHLY MEA 377	N DATA F 368	OR WATER	YEARS 1889 341	- 1997 351	, BY WATE 428	ER YEAR (WY 1118	2301	1485	858	452	
MAX	1195	620	623	609	781	711	1120	2667	4286	5541	2134	1411	
(WY)	1912	1924	1983	1983	1985	1989	1942	1984	1980	1957	1957	1909	
MIN	167	180	204	195	217	176	108	243	481	230	217	188	
(WY)	1978	1940	1940	1979	1978	1904	1940	1977	1902	1902	1977	1931	
SUMMARY	STATIST	CS	FOR	1996 CALE	NDAR YEAR	I	FOR 1997	WATER YEAR	2	WATER Y	EARS 1889	- 1997	
LOWEST HIGHEST LOWEST ANNUAL	MEAN ANNUAL ANNUAL DAILY DAILY ME SEVEN-DA	IEAN IEAN		287393 785 4140 203 213	May 20 Oct 14 Oct 11		359064 984 4670 203 213 4780	Jun 21 Oct 14 Oct 11 Jun 21	<u>.</u>	735 1299 329 9480 69 87 a ₁ 9000	May Apr Aug	1995 1977 29 1957 13 1959 9 1940 2 1921	
INSTANT ANNUAL 10 PERC 50 PERC		EAK STAGE AC-FT) EDS EDS		570000 2170 404 304				.78 Jun 21		5,c _{10.7} 532800 1730 414 240	0 Aug	2 1921	

e-Estimated.

a-Site and datum then in use, from rating curve extended above 5000 $\rm ft^3/s.$ b-From floodmark. c-Maximum gage height, 10.90 ft, Jun 18, 1995.

07096000 ARKANSAS RIVER AT CANON CITY, CO--Continued WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: October 1993 to current year. WATER TEMPERATURE: October 1993 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Records for specific conductance are good except Feb. 25 to Mar. 16 and Apr. 21 to May 8, which are poor. Records for water temperature are good except Jan. 30 to Apr. 15, which are fair. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 673 microsiemens, July 10, 1996; minimum, 94 microsiemens, June 9, 1996. WATER TEMPERATURE: Maximum, 22.5°C, Aug. 27, 1994; minimum, 0.0°C, many days during the winter.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 383 microsiemens, Apr. 28; minimum, 115 microsiemens, June 3-4. WATER TEMPERATURE: Maximum, 22.0°C, Aug. 28; minimum, 0.1°C, Dec. 17-19.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DI	ECEMBER			JANUARY	
1 2 3 4 5	278 275 276 277 270	270 270 269 266 264	274 273 272 272 267	283 282 280 282 281	278 278 276 278 274	280 279 279 280 276	256 259 271 268 268	248 247 254 253 249	251 251 262 259 258	239 240 243 242 241	237 236 240 239 236	237 237 242 240 238
6 7 8 9 10	275 280 280 286 300	267 272 273 275 281	269 275 277 279 288	275 275 280 283 279	271 269 267 272 271	273 272 273 279 273	251 248 246 248 247	244 240 240 242 243	248 245 243 245 245	259 266 262 257 263	240 259 248 245 247	246 262 253 252 254
11 12 13 14 15	309 313 313 315 322	296 301 301 300 307	303 309 309 309 315	274 276 272 271 276	269 268 267 266 269	272 272 270 269 272	248 248 248 245 244	243 243 242 241 240	246 246 246 243 242	264 292 298 285 264	252 256 284 264 246	258 274 290 276 252
16 17 18 19 20	320 324 323 310 300	308 315 309 296 288	315 320 315 302 294	275 267 262 	270 260 249 	272 265 254 	257 268 280 290 290	239 254 263 280 265	246 260 270 287 279	252 258 	246 222 	248 252
21 22 23 24 25	288 294 296 291 285	280 282 287 282 280	285 286 291 285 282	248 251 253 258 259	246 248 249 251 254	247 249 251 254 256	265 249 239 242 250	249 231 231 237 240	256 243 235 240 246	216 222 222 227 246	211 215 215 221 226	213 218 218 223 231
26 27 28 29 30 31	284 283 282 284 286 282	279 276 275 280 282 278	282 279 277 282 284 280	261 258 257 265 265	255 250 250 247 252	258 254 253 253 256	255 245 232 236 242 241	245 230 227 227 234 238	252 238 230 232 238 239	226 224 233 225 231 230	219 216 217 219 217 225	223 219 222 222 223 227
MONTH	324	264	289				290	227	249			

ARKANSAS RIVER BASIN

07096000 ARKANSAS RIVER AT CANON CITY, CO--Continued

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

		511		JUCTANCE,	(111011051							
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
]	FEBRUARY			MARCH			APRIL			MAY	
1 2 3	227 217 219	217 214 215	223 216 217		 197		225 221 225	216 215 217	220 218 220	301 369 378	290 301 315	295 326 366
4 5	217 220	213 213 210	217 215 214	201 202	195 189	197 195	236 240	225 232	230 236	361 375	315 320	345 338
6	218	212	215	203	184	192	245	236	240	375	320	333
7	217 218	213 209	215 214		186		240 237	233 228	236 233	360 374	321 257	343 343
9 10	225 225	212 210	217 216				235 242	227 228	232 237	265 253	246 226	253 236
11 12	225 225	208 215	215 219	197 205	190 190	195 199	257 270	240 251	251 258	234 218	218 198	225 209
13 14	220 218	213 214	217 216	248 317	205 246	230 284	279 280	265 273	271 277	198 193	191 181	193 188
15	215	206	211	312	245	266	279	274	277	181	177	179
16 17	212 204	202 199	205 202	288 249	239 224	256 238	290 290	278 288	285 289	180 171	171 152	177 163
18 19	206 205	200 199	203 202	229 237	223 229	225 232	294 290	279 269	283 276	152 143	141 141	146 142
20	206	202	204	239	232	236	284	263	268	143	136	141
21 22	208 203	195 192	203 197	240 236	226 222	232 228	268 272	233 242	262 260	141 150	132 140	134 148
23 24	213 223	197 212	202 215	232 234	223 220	228 227	288 280	272 259	280 268	150 149	145 143	147 147
25				231	221	225	262	257	260	144	139	142
26 27				233 238	227 229	231 234	273 378	259 270	265 291	148 157	139 146	143 152
28 29				241 242	234 228	238 233	383 282	269 270	275 276	174 192	156 174	165 187
30 31				233 228	222 222	227 224	291 	278	285 	193 185	183 167	189 178
MONTH							383	215	259	378	132	215
		JUNE			JULY		P	AUGUST		S	SEPTEMBE	R
1	167	144	155	141	126	137	200	186	194	259	251	255
2	144 122	144 121 115	130 119	134 139	126 126 131	131 135	200 216 190	186 180 185	189 187	259 259 252	251 251 248	255 256 250
2	144	144 121	130	134	126 126	131	200 216	186 180	189	259 259	251 251	255 256
2 3 4 5	144 122 122 125	144 121 115 115 119	130 119 118 123	134 139 138 136	126 126 131 133 133	131 135 136 134	200 216 190 206 196	186 180 185 182 181	189 187 187 189	259 259 252 255 265	251 251 248 246 251	255 256 250 250 260
2 3 4 5 6 7 8	144 122 122 125 132 189 192	144 121 115 115 119 123 129 135	130 119 118 123 128 142 151	134 139 138 136 135 136 135	126 126 131 133 133 131 131 131	131 135 136 134 133 134 134	200 216 190 206 196 190 200 193	186 180 185 182 181 178 184 179	189 187 187 189 183 191 187	259 259 252 255 265 269 274 276	251 251 248 246 251 262 267 270	255 256 250 250 260 265 270 273
2 3 4 5 6 7	144 122 122 125 132 189	144 121 115 115 119 123 129	130 119 118 123 128 142	134 139 138 136 135 136	126 126 131 133 133 131	131 135 136 134 133 134	200 216 190 206 196	186 180 185 182 181 178 184	189 187 187 189 183 191	259 259 252 255 265 269 274	251 251 248 246 251 262 267	255 256 250 250 260 265 270
2 3 4 5 6 7 8 9 10	144 122 122 125 132 189 192 177 180	144 121 115 115 119 123 129 135 166 175	130 119 118 123 128 142 151 172 177	134 139 138 136 135 136 135 154 168	126 126 131 133 133 131 131 133 134 154	131 135 136 134 133 134 134 143 162	200 216 190 206 196 190 200 193 262 227	186 180 185 182 181 178 184 179 176 174	189 187 187 189 183 191 187 182 182	259 259 252 255 265 269 274 276 279 283	251 251 248 246 251 262 267 270 272 277	255 256 250 250 260 265 270 273 275 281
2 3 4 5 6 7 8 9 10	144 122 122 125 132 189 192 177 180 176 165 156	144 121 115 115 119 123 129 135 166 175	130 119 118 123 128 142 151 172 177 170 160 150	134 139 138 136 135 136 135 154 168	126 126 131 133 133 131 131 133 134 154	131 135 136 134 133 134 134 143 162 168 161 168	200 216 190 206 196 190 200 193 262 227 196 204 202	186 180 185 182 181 178 184 179 176 174	189 187 187 189 183 191 187 182 182 192 198 200	259 259 252 255 265 269 274 276 279 283 285 287	251 251 248 246 251 262 267 270 272 277 278 282 282	255 256 250 250 260 265 270 273 275 281 281 284 285
2 3 4 5 6 7 8 9 10	144 122 122 125 132 189 192 177 180	144 121 115 115 119 123 129 135 166 175	130 119 118 123 128 142 151 172 177	134 139 138 136 135 136 135 154 168	126 126 131 133 133 131 131 133 134 154	131 135 136 134 133 134 134 143 162	200 216 190 206 196 190 200 193 262 227	186 180 185 182 181 178 184 179 176 174	189 187 187 189 183 191 187 182 182	259 259 252 255 265 269 274 276 279 283	251 251 248 246 251 262 267 270 272 277 278 282	255 256 250 250 260 265 270 273 275 281
2 3 4 5 6 7 8 9 10 11 12 13 14 15	144 122 122 125 132 189 192 177 180 176 165 156 151 144	144 121 115 115 119 123 129 135 166 175 164 155 142 139	130 119 118 123 128 142 151 172 177 170 160 150 145 142	134 139 138 136 135 136 135 154 168 181 178 184 169 167	126 126 131 133 133 131 131 133 134 154 162 158 163 165 154	131 135 136 134 133 134 134 143 162 168 161 168 166 163	200 216 190 206 196 190 200 193 262 227 196 204 204 209	186 180 185 182 181 178 184 179 176 174 190 192 194 188 183	189 187 187 189 183 191 187 182 182 192 198 200 192 184 184	259 259 252 255 265 269 274 276 279 283 285 287 286 281	251 251 248 246 251 262 267 270 272 277 278 282 282 275 272	255 256 250 250 260 265 270 273 275 281 281 284 285 280 277
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	144 122 122 125 132 189 192 177 180 176 165 156 151 144 145 157	144 121 115 115 119 123 129 135 166 175 164 155 145 142 139	130 119 118 123 128 142 151 172 177 170 160 150 145 142 143 154 152	134 139 138 136 135 136 135 154 168 181 178 184 169 167	126 126 131 133 133 131 131 133 134 154 162 158 163 165 154	131 135 136 134 133 134 134 143 162 168 161 168 166 163	200 216 190 206 196 199 200 193 262 227 196 204 202 197 188	186 180 185 182 181 178 184 179 176 174 190 192 194 188 183	189 187 187 189 183 191 187 182 182 192 198 200 192 184 184 191 191	259 259 259 252 265 265 269 274 276 279 283 285 287 287 286 281	251 248 246 251 262 267 270 272 277 278 282 282 275 272 272 274 274	255 256 250 250 260 260 273 273 275 281 281 284 285 280 277 277 277 277
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	144 122 122 125 132 189 192 177 180 176 165 156 151 144 145 157 155 146 132	144 121 115 115 119 123 129 135 166 175 164 155 145 142 139 140 145 146 132	130 119 118 123 128 142 151 172 177 170 160 150 145 142 143 154 152 139 128	134 139 138 136 135 136 135 154 168 181 178 184 169 167	126 126 131 133 133 131 131 133 134 154 162 158 163 165 154 142 139 141 143	131 135 136 134 133 134 134 143 162 168 161 168 166 163 146 141 142 144 155	200 216 190 206 196 190 200 193 262 227 196 204 202 197 188	186 180 185 182 181 178 184 179 176 174 190 192 194 188 183 181 188 189 194 197	189 187 187 189 183 191 187 182 182 192 198 200 192 184 184 191 191 196 200	259 259 259 252 265 265 274 276 279 283 285 287 287 287 281 281 281 281 287 293 293	251 248 246 251 262 267 270 272 277 278 282 282 275 272 274 274 284 282	255 256 250 250 260 260 273 273 275 281 281 284 285 280 277 277 277 278 279 287 288
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	144 122 122 125 132 189 192 177 180 176 165 156 151 144 145 157 155 146 132	144 121 115 115 119 123 129 135 166 175 164 155 145 142 139	130 119 118 123 128 142 151 172 177 170 160 150 145 142 143 154 152 139 128	134 139 138 136 135 136 135 154 168 181 178 184 167 154 143 143 143 143 146 283	126 126 131 133 133 131 131 133 154 162 158 163 165 154 142 139 141 143 144 157	131 135 136 134 133 134 134 143 162 168 166 163 146 141 142 144	200 216 190 206 196 190 200 193 262 227 196 204 202 197 188 188 198 199 204	186 180 185 182 181 178 184 179 176 174 190 192 194 188 183 181 188 189 194 197	189 187 187 189 183 191 187 182 182 192 198 200 192 184 184 191 196	259 259 259 252 255 265 269 274 276 279 283 285 287 286 281 281 281 281 281 293 293	251 248 246 251 262 267 270 272 277 278 282 282 275 272 274 274 274 284 282 275 272	255 256 250 250 260 265 270 273 275 281 281 284 285 280 277 277 278 279 287 288
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	144 122 125 132 189 192 177 180 176 165 151 144 145 157 155 146 132	144 121 115 115 119 123 129 135 166 175 164 155 145 142 139 140 145 146 132 125	130 119 118 123 128 142 151 172 177 170 160 150 145 142 143 154 152 139 128	134 139 138 136 135 136 135 154 168 181 178 184 169 167 154 143 143 146 283	126 126 131 133 133 131 131 133 134 154 162 158 163 165 154 142 139 141 143 144	131 135 136 134 133 134 134 143 162 168 161 168 166 163 146 141 142 144 155	200 216 190 206 196 190 200 193 262 227 196 204 202 197 188 188 198 199 204 204	186 180 185 182 181 178 184 179 176 174 190 192 194 188 183 181 188 189 194 197	189 187 187 189 183 191 187 182 182 192 198 200 192 184 184 191 191 196 200 205	259 259 259 252 255 265 269 274 276 279 283 285 287 286 281 281 281 281 293 293	251 248 246 251 267 270 272 277 278 282 282 275 272 272 274 284 284 282 287	255 256 250 250 260 265 270 273 275 281 281 284 285 280 277 277 278 279 287 288
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	144 122 122 125 132 189 192 177 180 176 165 156 151 144 145 157 155 146 132 127 125 125 124 125	144 121 115 115 119 123 129 135 166 175 145 145 145 142 139 140 145 146 132 125	130 119 118 123 128 142 151 177 170 160 150 145 142 143 154 152 139 128 125 123 123 123 124	134 139 138 136 135 136 135 154 168 181 178 184 167 154 143 143 146 283 175 167 189 170 173	126 126 131 133 133 131 131 133 134 154 162 158 163 165 154 142 139 141 143 144 157 155 164 167 168	131 135 136 134 133 134 134 134 162 168 161 168 166 163 146 141 142 144 155	200 216 190 206 196 199 200 193 262 227 196 204 202 197 188 188 198 195 199 204 211 225 226 245 242	186 180 185 182 181 178 184 179 176 174 190 192 194 188 183 181 188 189 194 197 202 211 219 226 238	189 187 187 189 183 191 187 182 182 192 198 200 192 184 184 191 196 200 205 217 222 237 240	259 259 259 252 265 265 269 274 276 279 283 285 287 287 287 287 281 281 281 281 281 282 293 293 294 281 280 278	251 248 246 251 262 267 270 272 277 278 282 282 275 272 274 274 284 282 287 277 274 274 284 287 277 277 278	255 256 250 250 260 260 273 273 275 281 284 285 280 277 277 278 279 287 288 299 294 277 274
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	144 122 122 125 132 189 192 177 180 176 165 156 151 144 145 157 155 146 132 127 125 125 125 125 124 125	144 121 115 115 119 123 129 135 166 175 164 155 145 142 139 140 145 146 132 125 122 121 121 121 122 124 132	130 119 118 123 128 142 151 172 177 170 160 150 145 142 143 154 152 139 128 125 123 123 123 124 130 134	134 139 138 136 135 135 135 154 168 181 178 184 169 167 154 143 143 143 143 147 175 189 170 173	126 126 131 133 133 131 131 133 154 162 158 163 165 154 142 139 141 143 144 157 164 167 168	131 135 136 134 133 134 143 162 168 161 168 166 163 146 141 142 144 155	200 216 190 206 196 190 200 193 262 227 196 204 202 197 188 188 198 195 199 204 211 225 226 245 242	186 180 185 182 181 178 184 179 176 174 190 192 194 188 183 181 188 189 194 197 202 211 219 226 238 238	189 187 187 189 183 191 187 182 182 192 198 200 192 184 184 191 191 196 200 205 217 222 237 240 242 240	259 259 259 252 255 265 269 274 276 279 283 285 287 286 281 281 281 281 283 293 293 293 294 281 282 278	251 248 246 251 267 270 272 277 278 282 282 275 272 274 274 274 284 284 282 275 272 271 273 274 274 275 277 278 279 279 279 279 279 279 279 279 279 279	255 256 250 250 260 265 273 275 281 281 284 285 280 277 277 278 287 287 287 287 287 277 279 287 277 279 287 287 287 277 279 277 277 278 277 279 279 279 279 279 279 279 279 279
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	144 122 122 125 132 189 192 177 180 176 165 156 151 144 145 157 155 146 132 127 125 124 125 124 125	144 121 115 115 119 123 129 135 166 175 164 155 145 142 139 140 145 146 132 125 121 121 121 121 122 124 132 133 138	130 119 118 123 128 142 151 177 170 160 150 145 142 143 152 139 128 125 123 123 122 124 130 134 138 140	134 139 138 136 135 136 135 154 168 181 178 184 169 167 154 143 143 1446 283 175 167 189 170 173	126 126 131 133 133 131 131 133 134 154 162 158 163 165 154 142 139 141 143 144 157 155 164 167 168 167 168	131 135 136 134 134 134 134 143 162 168 161 168 166 163 146 141 142 144 155 167 169 170 171 186 185 188	200 216 190 206 196 190 200 193 262 227 196 204 202 197 188 188 198 195 199 204 211 225 226 245 242 242 243	186 180 185 182 181 178 184 179 176 174 190 192 194 188 183 181 188 189 194 197 202 211 226 238 238 238 238 238 238	189 187 187 189 183 191 187 182 182 192 198 200 192 184 184 191 196 200 205 217 222 237 240 242 240 241 241	259 259 259 252 255 265 269 274 276 279 283 285 287 286 281 281 281 281 293 293 294 281 280 278 272 263	251 248 246 251 262 267 270 272 277 278 282 282 275 272 274 284 284 282 275 271 274 284 282 275 271 275 271 275 271	255 256 250 250 260 260 273 273 275 281 281 285 280 277 277 278 287 287 288 290 284 277 277 277 277 277 277 277 277 277 27
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	144 122 122 125 132 189 192 177 180 176 165 156 151 144 145 157 155 146 132 127 125 124 125	144 121 115 115 119 123 129 135 166 175 145 145 145 142 139 140 145 146 132 125 122 121 121 121 121 122	130 119 118 123 128 142 151 177 170 160 150 145 142 143 154 152 139 128 125 123 123 124 130 134 138	134 139 138 136 135 136 135 154 168 181 178 184 167 154 143 143 143 146 283 175 167 189 170 173	126 126 131 133 133 131 131 133 134 154 162 158 163 165 154 142 139 141 143 144 157 167 168	131 135 136 134 133 134 134 143 162 168 161 168 166 163 146 141 142 144 155 167 169 170 170 171 186 185	200 216 190 206 196 190 200 193 262 227 196 204 202 197 188 188 198 195 199 204 211 225 226 245 242	186 180 185 182 181 178 184 179 176 174 190 192 194 188 183 181 188 189 194 197 202 211 219 226 238 238 238 239	189 187 187 189 183 191 187 182 182 192 198 200 192 184 184 191 196 200 205 217 222 237 240 242 240 241	259 259 259 252 265 265 269 274 276 279 283 287 287 287 287 287 281 281 281 287 293 293 293 294 281 281 281 281 287 278 278 278 278 278 278 278 278 278	251 248 246 251 262 267 270 272 277 278 282 282 275 272 274 274 284 282 275 271 271 275 271	255 256 250 250 260 260 273 275 281 284 285 280 277 277 278 279 287 288 290 287 277 277 277 277 277 277 277 277 277
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	144 122 122 125 132 189 192 177 180 176 165 156 151 144 145 157 125 125 125 125 125 125 125 124 125	144 121 115 115 119 123 129 135 166 175 164 155 145 142 139 140 145 142 132 125 121 121 121 121 121 122 133 133 136	130 119 118 123 128 142 151 172 177 170 160 150 145 142 143 154 152 139 128 125 123 123 123 124 136 134 138 140 139	134 139 138 136 135 135 135 154 168 181 178 184 169 167 154 143 143 143 146 283 175 167 189 170 173	126 126 131 133 133 131 131 133 134 154 162 158 163 165 154 142 139 141 143 144 157 155 164 167 168	131 135 136 134 133 134 143 162 168 161 168 166 163 146 141 142 144 155 167 161 170 169 170	200 216 190 206 196 190 200 193 262 227 196 204 202 197 188 188 198 195 199 204 211 225 226 245 242 243 242 243 252	186 180 185 182 181 178 184 179 176 174 190 192 194 188 183 181 188 189 194 197 202 211 219 226 238 238 238 238 238 241	189 187 187 189 183 191 187 182 182 192 198 200 192 184 184 191 191 196 200 205 217 222 237 240 241 241 245	259 259 259 252 255 265 269 274 276 279 283 285 287 286 281 281 281 293 293 293 294 281 281 283 293 294 274 272 272 272 272 272 272 263 268	251 248 246 251 267 270 272 277 278 282 282 275 272 272 274 284 284 282 275 271 263 267 263 267 262 263 267 263 267 263 267 263 267 263 267 275 275 275 275 275 275 275 275 275 27	255 256 250 250 260 265 273 275 281 281 284 285 280 277 278 287 288 277 278 287 287 287 287

ARKANSAS RIVER BASIN 239

07096000 ARKANSAS RIVER AT CANON CITY, CO--Continued

	DAY	MAX	MIN	MEAN	MAX	MIN		MAX	MIN		MAX		MEAN
6			OCTOBER		N	OVEMBER		D	ECEMBER			JANUARY	
11	2 3 4	14.6 14.1 14.5	13.4 13.0 13.1	13.9 13.5 13.8	6.9 7.5 7.9	5.0 5.9 6.1	5.8 6.1 6.7 7.0 6.8	1.4 1.2 .3 .4	. 2 . 2 . 2 . 2	.9 .5 .3 .3	3.4 3.8 4.5 4.4 3.1	2.8 3.1 3.8 3.1 1.3	3.4 4.1 3.9
16	7 8 9	15.3 14.9	12.5	13.7	6.9 5.2 4.0 5.6 6.2	5.2 3.7 2.8 3.8 4.7	6.1 4.3 3.5 4.7 5.5	1.2 1.2 2.2 3.3 4.5	.5 .4 .8 1.9 3.1	.9 .8 1.5 2.6 3.7	1.3 .9 .9 .8 .7	.9 .8 .8 .7	1.1 .8 .8 .8
21	12 13 14	15.1 14.9	12.1 12.2 12.0 11.9 11.4	13.6 13.5 13.3 12.9 12.7	6.2 5.8 6.2 5.7 6.1	4.6 4.4 5.1 4.9 4.9					.8	. 7 . 7	. 7 . 7 . 7 . 8
Color	17 18 19	10.8	10.6 8.1 6.5 8.0 7.8	11.7 9.3 7.9 9.2 9.4		2.0 3.1	 	.7 .5 .6 .6	.5 .1 .1 .1	.5 .3 .4 .5	.8 .8 .9	.7 .7 .7 .8	. 8 . 7 . 8 . 8
28	23 24	7.8 6.6 7.4 8.2 8.5	6.1 4.2 5.1 5.9 6.8	6.8 5.5 6.2 7.0 7.5	7.1 6.7	5.4 5.2	6.4 6.2 4.4 3.8	. 4 . 4 . 5 . 4 . 4	.3 .3 .3	. 4 . 3 . 4 . 4	1.0 1.1 1.2 1.2	.8 .9 .9 1.0	1.0 1.1 1.1
MANTH 15.3 4.2 10.4 4.5 .1 1.2 4.5 .7 1.4	27 28 29 30	7.0 7.1	6.0 4.4 4.5 5.3 5.3	6.8 5.1 5.8 6.3 6.3	3.7 2.3 1.9 2.5 2.0	2.3 1.6 .2 1.5 1.4	3.1 2.0 1.4 2.0 1.7	.4 .7 .8 1.1 2.1 2.8	.4 .4 .5 1.1 2.1	.4 .5 .6 .8 1.6 2.4	1.7 1.6 1.4 1.6 1.8 3.5	1.1	1.2
1 4,2 3,3 3,7 4,3 3,8 4,0 11.9 10.3 11.0 11.7 10.5 11.0 2 4,3 4,0 4,2 5,0 4,1 4,4 10.7 8.3 9.5 10.5 9.0 9.8 3 4,3 3,9 2,9 3,4 5,4 4,8 4,9 51.1 10.4 7.3 8.8 11.5 9.5 10.3 4 3,9 2,9 3,4 5,4 4,8 4,9 11.2 9.9 10.5 12.4 10.7 11.5 5 3.0 2.4 2.6 4.8 4,1 4,5 11.0 9.3 10.1 13.6 11.8 12.6 6 2.5 2.2 2.3 5.5 4.6 4.9 9.5 7.6 8.7 13.8 12.7 13.3 7 2.4 2.0 2.2 3.5 5.5 5.5 10.6 8.1 9.3 13.6 12.9 13.2 8 2.4 1.0 2.2 7.5 6.5 <td>MONTH</td> <td>15.3</td> <td>4.2</td> <td>10.4</td> <td></td> <td></td> <td></td> <td>4.5</td> <td>.1</td> <td>1.2</td> <td>4.5</td> <td>. 7</td> <td>1.4</td>	MONTH	15.3	4.2	10.4				4.5	.1	1.2	4.5	. 7	1.4
5 3.0 2.4 2.6 4.8 4.1 4.5 11.0 9.3 10.1 13.6 11.8 12.6 6 2.5 2.2 2.3 5.5 4.6 4.9 9.5 7.6 8.7 13.8 12.7 13.3 7 2.4 2.0 2.3 6.2 5.0 5.5 10.6 8.1 9.3 10.2 13.1 11.7 12.6 9 2.4 2.0 2.2 7.5 6.5 6.9 10.3 8.8 9.7 15.1 10.5 12.8 10 2.3 1.7 2.0 8.2 6.8 7.5 6.3 4.6 5.4 15.1 10.5 12.8 11 2.5 1.7 2.0 8.2 6.8 7.5 6.3 4.6 5.4 15.1 13.1 14.0 12 3.5 2.5 2.9 8.2 7.3 7.8 6.7 4.6 5.6 15.1 12.0 13.6 13 3.9 3.2 3.5 8.1 6.8 7.6 <th></th> <th></th> <th>FEBRUARY</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>APRIL</th> <th></th> <th></th> <th>MAY</th> <th></th>			FEBRUARY						APRIL			MAY	
11 2.5 1.7 2.0 8.2 6.8 7.5 6.3 4.6 5.4 15.1 13.1 14.0 12 3.5 2.5 2.9 8.2 7.3 7.8 6.7 4.6 5.6 15.1 12.0 13.6 13 3.9 3.2 3.5 8.1 6.8 7.6 8.6 5.9 7.1 15.0 12.3 13.8 14 3.9 3.5 3.7 7.7 5.4 6.0 9.7 8.0 8.7 14.4 12.7 13.7 15 4.2 3.5 3.7 6.0 3.9 5.0 11.4 9.2 10.2 15.6 12.7 14.2 16 4.7 4.1 4.3 8.8 5.5 7.0 14.3 10.6 12.1 15.3 13.4 14.5 17 5.5 4.7 5.0 10.8 8.1 9.4 15.0 10.8 12.9 15.5 13.0 14.3 18 5.9 5.2 5.5 10.9 8.0 9.7 <	2 3 4	4.3 4.3 3.9	3.3 4.0 3.9 2.9 2.4	3.7 4.2 4.1 3.4 2.6	4.3 5.0 5.4 5.4 4.8	3.8 4.1 4.9 4.8 4.1		10.7 10.4	10.3 8.3 7.3 9.9 9.3	11.0 9.5 8.8 10.5 10.1	11.7 10.5 11.5 12.4 13.6	9.0 9.5 10.7	9.8 10.3 11.5
15 4.2 3.5 3.7 6.0 3.9 5.0 11.4 9.2 10.2 15.6 12.7 14.2 16 4.7 4.1 4.3 8.8 5.5 7.0 14.3 10.6 12.1 15.3 13.4 14.5 17 5.5 4.7 5.0 10.8 8.1 9.4 15.0 10.8 12.9 15.5 13.0 14.3 18 5.9 5.2 5.5 10.9 8.0 9.7 15.2 12.4 13.9 14.8 12.7 13.8 19 6.8 5.9 6.2 11.9 8.5 10.3 15.7 12.7 14.2 13.8 11.7 12.4 20 6.9 6.0 6.5 13.2 9.7 11.6 15.4 13.3 14.5 13.9 11.6 12.7 21 6.0 4.8 5.2 12.6 10.8 11.5 14.7 13.0 13.9 13.7 11.5 12.6 22 4.8 3.7 4.1 12.5 9.3	7 8 9	2.4 2.4 2.4	2.2 2.0 1.9 2.0 1.9	2.3 2.3 2.2 2.2 2.1	7.5 7.7	5.0 5.7 6.5	4.9 5.5 6.2 6.9 7.3	9.5 10.6 10.8 10.3 10.2	7.6 8.1 9.3 8.8 6.3	8.7 9.3 10.2 9.7 8.7	13.1	11.7	13.2 12.6 12.8
17 5.5 4.7 5.0 10.8 8.1 9.4 15.0 10.8 12.9 15.5 13.0 14.3 18 5.9 5.2 5.5 10.9 8.0 9.7 15.2 12.4 13.9 14.8 12.7 13.8 19 6.8 5.9 6.2 11.9 8.5 10.3 15.7 12.7 14.2 13.8 11.7 12.4 20 6.9 6.0 6.5 13.2 9.7 11.6 15.4 13.3 14.5 13.9 11.6 12.7 21 6.0 4.8 5.2 12.6 10.8 11.5 14.7 13.0 13.9 13.7 11.5 12.6 22 4.8 3.7 4.1 12.5 9.3 11.0 13.2 10.5 12.0 13.3 12.0 12.7 23 3.8 2.9 3.3 13.5 10.4 12.1 12.5 11.3 12.0 13.1 11.3 12.2 24 2.9 2.5 2.6 12.9 7.9	12 13 14	3.5 3.9 3.9	3.5	2.0 2.9 3.5 3.7	8.2 8.2 8.1 7.7 6.0	6.8 7.3 6.8 5.4 3.9						12.7	13.7
22 4.8 3.7 4.1 12.5 9.3 11.0 13.2 10.5 12.0 13.3 12.0 12.7 23 3.8 2.9 3.3 13.5 10.4 12.1 12.5 11.3 12.0 13.1 11.3 12.3 24 2.9 2.5 2.6 12.9 7.9 10.3 11.9 7.7 10.0 12.9 11.7 12.2 25 2.5 2.3 2.4 9.9 6.3 8.2 7.7 6.0 6.8 13.7 10.7 12.1 26 3.5 2.4 2.8 11.6 7.8 9.9 8.8 6.3 7.4 13.5 11.4 12.6 27 3.5 3.2 3.4 13.1 9.6 11.3 10.7 7.9 9.2 12.6 10.7 11.8 28 4.0 3.4 3.6 12.6 9.8 11.4 11.7 10.2 10.9 13.4 10.6 11.9 29 11.7 9.2 1	17 18 19	5.5 5.9 6.8	4.7 5.2 5.9	5.0 5.5 6.2	10.8 10.9 11.9	8.1 8.0 8.5	9.4 9.7 10.3	15.0 15.2 15.7	10.8 12.4 12.7	12.9 13.9 14.2	15.5 14.8 13.8	13.0 12.7 11.7	14.3 13.8 12.4
27 3.5 3.2 3.4 13.1 9.6 11.3 10.7 7.9 9.2 12.6 10.7 11.8 28 4.0 3.4 3.6 12.6 9.8 11.4 11.7 10.2 10.9 13.4 10.6 11.9 29 11.7 9.2 10.2 12.3 10.8 11.5 13.9 12.2 12.9 30 12.2 8.2 10.4 12.0 10.1 11.2 16.0 13.0 14.4 31 12.7 9.7 11.4 17.1 14.0 15.5	22 23 24	4.8 3.8 2.9	3.7 2.9 2.5	4.1 3.3 2.6	12.5 13.5 12.9	9.3 10.4 7.9	11.0 12.1 10.3	13.2 12.5 11.9	10.5 11.3 7.7	12.0 12.0 10.0	13.3 13.1 12.9	12.0 11.3 11.7	12.7 12.3 12.2
	27 28 29 30	3.5 4.0 	3.2 3.4 	3.4 3.6 	13.1 12.6 11.7 12.2	9.6 9.8 9.2 8.2	11.3 11.4 10.2 10.4	10.7 11.7 12.3 12.0	7.9 10.2 10.8 10.1	9.2 10.9 11.5 11.2	12.6 13.4 13.9 16.0	10.7 10.6 12.2 13.0	11.8 11.9 12.9 14.4

07096000 ARKANSAS RIVER AT CANON CITY, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1 2 3 4 5	16.7 15.8 15.1 15.6 15.1	14.7 13.7 13.2 13.3 13.2	15.6 14.8 14.3 14.4 14.2	17.1 16.4 16.6 17.2 16.8	14.7 13.8 14.1 14.8 15.2	16.0 15.3 15.5 16.0 16.1	20.8 20.5 20.6 20.1 19.6	17.8 18.7 17.8 18.3 17.9	19.4 19.7 19.4 19.2 18.6	19.9 20.2 21.2 21.4 20.5	17.2 18.0 19.5 19.2 18.2	18.6 19.2 20.4 20.3 19.4
6 7 8 9 10	14.6 13.9 13.4 13.8 15.3	12.3 12.5 12.4 11.3 12.3	13.5 13.2 13.0 12.5 13.7	17.2 17.0 16.2 16.8 17.7	14.3 14.6 13.8 14.0 14.6	15.8 16.0 15.2 15.6 16.2	19.1 17.2 19.0 18.8 18.1	16.4 15.1 16.0 17.1 16.4	17.7 16.2 17.5 18.0 17.1	20.3 19.5 19.5 18.4 19.2	18.0 16.7 16.6 17.0 15.8	19.0 18.1 18.1 17.7 17.4
11 12 13 14 15	15.6 15.0 15.0 15.7 14.7	12.4 12.9 12.6 13.3 12.2	14.0 14.0 13.8 14.5 13.5	17.2 17.8 18.3 19.5 19.8	16.0 14.6 15.4 16.5 17.8	16.6 16.2 17.0 18.2 18.8	17.9 18.7 18.8 18.1 18.7	15.7 15.2 16.3 15.7 15.3	16.9 17.0 17.6 17.0	18.8 20.1 19.3 19.8 18.7	16.4 17.1 16.5 16.8 15.8	17.7 18.5 17.9 18.1 17.3
16 17 18 19 20	14.3 15.5 16.9 16.9	12.3 12.9 13.7 14.3 14.2	13.3 14.2 15.3 15.7 15.6	18.8 18.6 18.1 18.2 18.6	17.0 15.9 16.3 15.8 16.6	18.1 17.4 17.2 17.1 17.5	19.0 19.3 19.4 19.0 19.4	16.3 17.0 17.5 16.7 16.6	17.8 18.2 18.4 18.1 18.1	18.3 18.6 18.3 18.7 16.8	15.4 15.3 15.7 15.9 13.2	16.8 16.9 17.0 17.3 14.6
21 22 23 24 25	16.7 16.5 17.0 16.6 16.3	13.9 14.4 14.1 14.4 14.2	15.4 15.5 15.5 15.5 15.3	19.1 19.5 19.5 20.2 20.2	16.5 16.4 17.1 17.4 17.7	17.8 18.0 18.5 18.9 19.1	19.1 19.7 20.8 21.2 21.4	16.9 16.6 17.6 18.1 18.6	18.0 18.2 19.1 19.5 19.9	13.7 15.3 14.5 15.3 16.2	12.2 13.1 13.6 12.5 13.4	13.0 14.2 14.0 14.0
26 27 28 29 30 31	16.8 15.8 16.8 17.2 17.5	14.2 14.0 13.7 14.3 14.5	15.5 15.1 15.1 15.7 16.1	20.4 20.7 19.2 19.6 20.5 20.9	18.0 17.6 17.4 17.2 17.3	19.0 18.9 18.2 18.4 19.0	21.1 20.9 22.0 21.1 19.3 19.8	18.3 18.4 19.2 19.3 17.6 17.1	19.7 19.8 20.6 20.0 18.2 18.4	16.1 17.3 16.8 16.2 16.4	14.3 14.0 14.3 13.6 13.7	15.3 15.8 15.6 15.0 15.2
MONTH	17.5	11.3	14.6	20.9	13.8	17.3	22.0	15.1	18.4	21.4	12.2	16.9

07096250 FOURMILE CREEK BELOW CRIPPLE CREEK NEAR VICTOR, CO

 $LOCATION.--Lat~38^o39'52", long~105^o13'37", in~SW^{1/4}SE^{1/4}~sec. 9, T.16~S., R.70~W., Teller~County, Hydrologic~Unit~11020002, on~left~bank~500~ft~from~Teller~County~Route~88, 0.2~mi~downstream~from~Cripple~Creek, and 5.5~mi~southwest~of~Victor.$

DRAINAGE AREA.--272 mi².

PERIOD OF RECORD.--September 1992 to current year.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,870 ft above sea level, from topographic map.

REMARKS.--Records good except for Aug. 27 to Sept. 26 and estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	15 15 15 15 15	27 26 26 26 25	8.9 9.1 8.1 7.5 e6.5	4.8 4.8 5.1 4.3 5.5	4.3 4.2 4.0 4.2 5.6	4.3 4.8 4.8 4.3	8.2 9.1 9.7 11 9.2	10 10 9.3 8.1 8.8	26 26 31 31 29	30 29 29 21 19	21 22 21 13 12	12 11 11 11	
6 7 8 9 10	15 15 15 14 14	25 25 15 10 9.4	e6.0 e5.0 e6.0 e6.5 7.0	e5.0 e4.5 e5.0 e5.0 e4.5	6.8 5.7 5.2 6.6 6.1	4.7 4.7 5.2 5.3 5.0	6.1 6.7 7.1 7.4 8.3	9.5 9.7 10 11 12	31 51 54 66 85	19 19 18 18	14 14 13 12 13	12 12 13 13	
11 12 13 14 15	14 14 14 14 14	8.8 8.9 9.0 8.8 9.0	6.8 6.7 7.1 6.8 e6.5	e4.0 e3.5 e3.5 e3.2 e4.0	5.6 4.1 4.0 4.0	5.4 6.0 6.4 5.9 5.6	8.9 9.6 9.1 10 9.8	13 17 16 16 16	62 59 75 90 91	19 19 15 15	13 12 12 12 11	13 13 14 13	
16 17 18 19 20	14 25 26 26 27	9.0 7.1 10 9.2 8.6	e6.0 e6.5 e6.0 e5.5	e5.0 6.0 5.3 5.1 4.7	4.2 4.1 4.0 4.4 3.5	5.8 5.3 5.2 4.9 5.4	8.9 8.8 9.0 9.1 8.8	17 15 13 18 19	82 76 65 64 56	15 15 15 14 13	11 11 15 13 12	12 13 13 13	
21 22 23 24 25	29 27 27 27 27	8.0 8.4 8.2 7.1 7.5	e5.0 e5.0 e6.0 6.6 6.1	4.3 5.1 4.3 4.1 5.4	4.1 4.2 7.4 7.4 5.7	5.2 4.8 4.9 5.5 4.5	9.8 10 11 11	23 31 40 32 29	41 40 38 44 42	13 12 11 9.7 9.8	11 11 11 11 18	9.1 9.3 9.3 8.7 9.5	
26 27 28 29 30 31	27 29 29 29 28 27	6.8 7.8 7.2 8.6 8.1	5.8 5.5 4.8 4.6 4.4	3.9 3.7 4.8 3.8 4.5 4.2	4.4 5.3 4.9 	6.3 6.9 7.0 7.9 7.4 8.1	11 13 15 14 12	29 28 28 31 31 29	42 39 36 34 31	13 13 15 17 34 24	25 18 16 14 14	10 10 10 9.6 9.6	
TOTAL MEAN MAX MIN AC-FT	642 20.7 29 14 1270	380.5 12.7 27 6.8 755	193.0 6.23 9.1 4.4 383	140.9 4.55 6.0 3.2 279	138.3 4.94 7.4 3.5 274	172.2 5.55 8.1 4.3 342	292.6 9.75 15 6.1 580	589.4 19.0 40 8.1 1170	1537 51.2 91 26 3050	547.5 17.7 34 9.7 1090	440 14.2 25 11 873	342.1 11.4 14 8.7 679	
							, BY WATER						
MEAN MAX (WY) MIN (WY)	16.7 21.1 1995 6.65 1994	13.3 21.8 1995 7.57 1994	8.33 16.6 1996 5.66 1994	7.89 15.4 1996 4.55 1997	6.85 11.6 1996 3.79 1995	7.72 9.82 1996 5.55 1997	20.1 40.2 1994 9.75 1997	61.0 149 1994 12.3 1996	58.3 128 1995 11.8 1996	27.7 75.8 1995 11.2 1993	19.3 37.7 1995 4.95 1993	15.4 30.2 1995 5.19 1993	
SUMMARY	STATIST	ICS	FOR	1996 CALEN	IDAR YEAR	I	FOR 1997 WA	ATER YEAR		WATER YEA	ARS 1993	- 1997	
LOWEST HIGHEST LOWEST ANNUAL	MEAN ANNUAL MANNUAL MANNUAL MAILY MAILY MAILY MAILY MAILY MAILY MEA	EAN EAN AN Y MINIMUM		4815.1 13.2 34 4.4 5.1	May 26 Dec 30 Dec 25		5415.5 14.8 91 e3.2 4.0 a ₁₀₂	Jun 15 Jan 14 Jan 9 Jun 14		21.9 38.2 12.6 373 2.5 3.4 b ₆₄₇	Mar Feb	1995 1993 11 1994 1 1995 5 1995 17 1995	
ANNUAL 10 PERC 50 PERC	ANEOUS PI RUNOFF (A ENT EXCEI ENT EXCEI ENT EXCEI	EDS EDS		9550 23 12 6.9			a3.67 10740 29 10 4.6	7 Jun 14		4.62 15880 52 12 5.4	Jun	17 1995	

e-Estimated.

a-Also occurred Jun 15. b-From rating curve extended above 127 ft³/s.

07096500 FOURMILE CREEK NEAR CANON CITY, CO

LOCATION.--Lat 38°26'11", long 105°11'27", in NE1/4SW1/4 sec.35, T.18 S., R.70 W., Fremont County, Hydrologic Unit 11020002, on left bank 1,000 ft downstream from railroad bridge, 0.6 mi upstream from mouth, and 2.8 mi east of courthouse in Canon City.

DRAINAGE AREA.--434 mi².

PERIOD OF RECORD.--April to October 1910 (gage heights and discharge measurements only), October 1948 to September 1953, November 1970 to September 1997 (discontinued). Published as "Oil or Fourmile Creek" in 1910 and as Oil Creek near Canon City, 1948-53.

REVISED RECORDS.--WDR CO-84-1: 1982(M), 1983 (M); WDR CO-85-1: 1984 (M).

GAGE.--Water-stage recorder with satellite telemetry. Concrete control since Oct. 1, 1974. Elevation of gage is 5,254 ft, above sea level, from topographic map. Apr. to Oct. 1910, nonrecording gage at site 1,200 ft upstream at different datum. Oct. 1948 to Sept. 1953, water-stage recorder at site 0.6 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 500 acres upstream from station. Water imported to basin from Arkansas River for irrigation of a few small orchards upstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

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

			DISCHAI	KGE, CUBIC F	EET PEK SE		EAN VALUES	TOBER 199	6 IO SEPI	EMBER 1997		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	21 22 22 23 24	42 40 37 38 39	24 24 23 20 13	14 14 14 13	12 12 12 11 12	12 12 12 12 12	11 11 8.0 7.2 7.6	32 33 32 28 25	33 33 30 29 30	32 32 30 27 23	28 52 37 28 22	20 18 16 15 15
6 7 8 9 10	25 24 25 22 18	40 40 40 37 36	e12 e10 e12 13	e9.0 e8.0 e8.0 e10 e12	12 12 12 12 12	12 12 12 11 9.5	8.0 7.0 6.6 7.1 7.5	21 22 22 22 23	31 44 58 84 98	22 21 20 20 19	47 30 23 22 25	15 13 13 13 12
11 12 13 14 15	18 18 20 17 16	35 34 32 32 30	13 12 12 13 12	e10 e8.0 e9.0 e10 e12	12 12 12 12 11	7.0 6.2 5.3 4.8 5.9	10 12 12 13 10	22 25 27 26 23	93 99 101 103 95	20 20 19 18 18	24 21 20 19 14	15 18 17 15 13
16 17 18 19 20	19 23 28 29 32	30 30 28 29 28	12 e8.0 e9.0 e9.0 e10	13 12 13 14 14	9.9 7.8 8.9 9.9 9.8	4.6 4.0 3.7 3.4 3.2	9.8 8.7 6.8 6.4 5.8	23 23 24 24 26	86 82 72 69 63	18 16 16 17 21	15 21 29 32 24	12 12 13 13
21 22 23 24 25	38 38 37 37 38	26 25 25 24 26	e12 14 15 14 15	13 12 12 12 12	11 10 11 9.5 9.7	3.1 3.0 3.2 3.3 3.8	6.4 7.6 8.7 29 32	25 28 38 37 36	57 50 44 44 44	17 17 17 16 16	22 21 22 14 16	16 17 21 19 18
26 27 28 29 30 31	38 37 42 41 41 43	25 25 24 24 24	15 15 15 14 14	12 12 12 13 12 12	11 11 11 	3.7 4.1 3.4 3.4 4.4 4.0	28 28 32 33 33	37 33 31 31 33 31	45 43 38 36 33	17 19 20 19 72 37	29 32 27 23 20 18	16 15 15 14 12
TOTAL MEAN MAX MIN AC-FT	876 28.3 43 16 1740	945 31.5 42 24 1870	432.0 13.9 24 8.0 857	362.0 11.7 14 8.0 718	308.5 11.0 12 7.8 612	203.0 6.55 12 3.0 403	413.2 13.8 33 5.8 820	863 27.8 38 21 1710	1767 58.9 103 29 3500	696 22.5 72 16 1380	777 25.1 52 14 1540	456 15.2 21 12 904
							BY WATER Y					
MEAN MAX (WY) MIN (WY)	26.4 92.3 1985 1.74 1953	23.3 67.5 1985 3.20 1953	15.4 35.5 1978 3.77 1953	12.7 28.0 1985 3.20 1952	11.7 36.2 1983 2.79 1952	12.2 36.8 1985 .94 1953	27.5 103 1985 1.61 1950	68.4 354 1980 2.25 1950	49.2 207 1983 1.71 1953	33.0 181 1985 1.83 1952	39.0 264 1984 1.70 1951	30.8 234 1984 .85 1950
SUMMARY	STATISTI	CS	FOR	1996 CALEN	DAR YEAR	F	OR 1997 WAT	TER YEAR		WATER YEA	ARS 1949	- 1997
LOWEST HIGHEST LOWEST ANNUAL		AN AN N MINIMUM		7425.9 20.3 63 e,a1.0 1.9	Aug 16 Mar 26 Mar 21		8098.7 22.2 103 3.0 3.3 603	Jun 14 Mar 22 Mar 18 Jul 30		29.7 95.1 3.04 1110 b.00 .00	Sep Sep Jul	1985 1953 22 1984 3 1950 3 1950 11 1951
ANNUAL 10 PERC 50 PERC	ANEOUS PE RUNOFF (A ENT EXCEE ENT EXCEE ENT EXCEE	C-FT) DS DS		14730 30 20 11			4.10 16060 38 18 8.0	Jul 30		d _{9.25} 21520 55 17 3.5	Jul	11 1951

e-Estimated. a-Also occurred Mar 27. b-Also occurred Sep 4-10, 1950, and Sep 23, 1951. c-From rating curve extended above 96 ${\rm ft}^3/{\rm s}$, on basis of slope-area measurement of peak flow. d-From floodmarks, site and datum then in use.

07097000 ARKANSAS RIVER AT PORTLAND, CO

LOCATION.--Lat 38°23'18", long 105°00'56", in NE1/4NE1/4 sec.20, T.19 S., R.68 W., Fremont County, Hydrologic Unit 11020002, on right bank at bridge on State Highway 120 at Portland, and 1 mi downstream from Hardscrabble Creek.

DRAINAGE AREA.--4,024 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1939 to September 1952, October 1974 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,021.59 ft above sea level. Prior to Oct. 1, 1974, at site 400 ft downstream at datum 0.03 ft lower.

REMARKS .-- Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, diversions upstream from station for irrigation of about 60,000 acres and return flow from irrigated areas.

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

00011	21011	. Record								ia ie vie wea	-	gicai bai
			DISCHA	ARGE, CUBIC	C FEET PER SE		VATER YEAI MEAN VALU		1996 TO SEI	PTEMBER 1997	7	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	354 349 345 363 358	457 436 435 437 440	420 403 414 405 411	399 385 391 401 372	477 474 462 448 442	601 641 642 638 654	501 565 527 529 530	579 512 441 390 360	2300 3450 4280 4690 4630	2820 2570 2310 2150 2140	1370 1530 1460 1380 1440	670 637 616 585 540
6 7 8 9 10	321 304 293 283 e260	454 452 429 430 441	429 442 437 439 441	e350 e340 e420 e460 467	458 454 443 435 433	681 682 693 796 834	500 468 488 457 426	371 423 475 495 609	4150 4350 4470 4610 4450	2050 1940 1870 1630 1340	1750 2060 1860 1620 1710	511 479 474 466 440
11 12 13 14 15	e230 e220 e220 e220 e222	423 424 422 422 422	459 446 445 436 421	463 e350 e330 e340 e370	450 455 462 452 498	766 691 716 737 698	408 380 375 369 352	718 782 778 887 998	4340 4230 e4300 4460 4350	1330 1380 1290 1250 1320	1780 1760 1650 1600 1610	431 418 410 406 398
16 17 18 19 20	e220 e230 e240 275 315	431 466 448 484 472	375 e310 e280 e310 e370	e360 e380 e520 573 586	499 510 514 518 516	651 632 614 550 557	378 394 363 375 375	1110 1430 1650 1830 1980	e3900 3740 3660 4130 4780	1540 1620 1620 1620 1760	1390 1260 e1200 1170 1040	393 385 377 361 394
21 22 23 24 25	360 355 361 385 384	461 449 441 440 419	e400 e420 e420 e430 427	564 548 545 537 538	538 505 514 521 511	562 567 565 560 565	379 526 517 640 642	2140 2290 2470 2350 2400	5020 4930 4720 4490 4210	1730 1530 1450 1430 1370	940 834 793 665 853	480 645 651 610 626
26 27 28 29 30 31	403 442 461 480 460 461	421 420 430 413 435	430 457 448 429 401 395	546 544 540 537 485 450	595 577 598 	530 527 532 544 549 511	536 562 548 604 661	2190 1880 1530 1320 1420 1760	3660 3380 3130 2950 2890	1260 1230 1310 1430 1530 1450	707 710 689 645 612 632	616 612 648 621 602
TOTAL MEAN MAX MIN AC-FT	10174 328 480 220 20180	13154 438 484 413 26090	12750 411 459 280 25290	14091 455 586 330 27950	13759 491 598 433 27290	19486 629 834 511 38650	14375 479 661 352 28510	38568 1244 2470 360 76500	122650 4088 5020 2300 243300	51270 1654 2820 1230 101700	38720 1249 2060 612 76800	15502 517 670 361 30750
STATIST	TICS OF MO			OR WATER	YEARS 1939	- 1997		R YEAR (WY				
MEAN MAX (WY) MIN (WY)	393 1083 1985 136 1978	417 748 1985 191 1978	376 693 1983 212 1978	353 626 1983 199 1979	347 775 1985 162 1978	366 683 1989 147 1978	514 1869 1942 135 1981	1204 2680 1984 245 1977	2557 4429 1980 581 1977	1620 4472 1995 242 1977	951 2380 1984 201 1977	457 1008 1982 172 1977
SUMMARY	STATIST	ICS	FOR	1996 CALE	NDAR YEAR		FOR 1997 1	WATER YEAR	!	WATER YE	ARS 1939	- 1997
LOWEST HIGHEST		EAN EAN		297286 812 4320 a220	May 20 Sep 5		364499 999 5020 e,b ₂₂₀	Jun 21 Oct 12		804 1387 315 7460 66		1995 1977 8 1942 28 1977
ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		589700 2180 429 310	Oct 11		223 6360 7. 723000 2290 529 367	Oct 11 Jun 7		76 C21100 12.18 582100 1920 460 223	Oct Jun	24 1977 5 1949 5 1949

e-Estimated

a-Also occurred Oct 12-14, and 16, (which were estimated days). b-Also occurred Oct 13-14, and 16, (also estimated days). c-From rating curve extended above 5300 ft³/s.

07097000 ARKANSAS RIVER AT PORTLAND, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD .-- February 1977 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 November 1982, with satellite telemetry.

REMARKS .-- Specific conductance records fair except May 3 to Sept. 5, which are poor. Water temperature records good. Specific conductance data may not be representative of the cross section at the site during flash floods. Daily data that are not published are either missing or of unacceptable quality. Periodic water-quality data available Feb. 1977 to Sept. 1995 under National Stream-Quality Accounting Network (NASQAN) for this site.

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum daily, 1,380 microsiemens (observer), Sept. 30, 1981; minimum, 111 microsiemens, June 22, 1984.

WATER TEMPERATURES: Maximum, 26.0°C, July 27, 1987; minimum, 0.0°C, many days during winter months.

EXTREMES FOR CURRENT YEAR.-SPECIFIC CONDUCTANCE: Maximum, 700 microsiemens, Oct. 18; minimum, 133 microsiemens, June 22, 24. WATER TEMPERATURES: Maximum, 24.6°C, Aug. 29; minimum, 1.0°C, Apr. 11-12.

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

DAY	MAX	MIN	MEAN									
		OCTOBER		NO	OVEMBER		DI	ECEMBER			JANUARY	•
1	514	499	508	484	480	481	468	453	462	470	460	465
2	505	493	499	484	478	481	469	460	466	464	453	460
3	504	490	497	479	473	476	464	442	455	466	458	464
4	501	474	490	478	464	472	463	431	454	465	453	459
5	486	466	476	474	462	467	460	441	449	464	452	456
6	474	465	470	468	457	462	460	440	450	467	451	459
7	486	470	479	467	459	463	450	439	445	457	444	450
8	497	479	490	471	462	466	448	434	442	457	425	446
9	520	497	504	473	458	466	451	440	445	457	428	443
10	573	520	541	469	458	463	444	433	439	458	446	452
11	632	573	594	467	461	464	441	428	435	460	450	455
12	678	632	654	469	461	465		424		479	455	465
13	670	614	641	468	460	464				480	464	473
14	674	603	641	467	460	464				466	438	457
15	676	628	654	473	463	468				438	414	426
16	652	598	628	475	465	470	460	417	445	429	391	415
17	631	593	615	472	454	462	448	418	431	425	404	413
18	700	549	611	458	449	452	488	447	457	421	413	417
19	582	544	565	451	422	437	531	476	502	418	413	416
20	583	524	554	429	403	421	527	450	485	413	407	411
21	554	519	534	427	396	417	525	441	463	411	402	408
22	545	530	537	437	411	426	472	434	456	405	394	400
23	546	527	537	443	428	435	463	444	451	407	402	405
24	528	502	515	458	435	450	471	424	445	406	401	404
25	513	502	509	464	451	459	467	437	460	405	371	394
26	506	490	500	468	455	463	467	436	453	405	398	401
27	507	488	495	465	454	459	454	430	441	402	395	398
28	516	505	510	470	450	461	450	429	437	395	368	383
29	518	485	502	472	461	468	460	439	447	399	390	394
30	490	478	486	470	459	465	470	460	465	413	399	403
31	493	479	485				472	460	468	415	401	409
MONTH	700	465	539	484	396	459				480	368	429

07097000 ARKANSAS RIVER AT PORTLAND, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	406 396 394 397 391	393 383 349 357 372	399 388 387 388 381	378 364 353 343 327	361 340 340 322 309	371 350 346 331 319	365 365 351 366 370	349 338 345 347 362	356 347 349 356 367	417 448 	401 413 	408 429
6 7 8 9 10	387 387 398 393 422	368 368 364 341 366	378 376 376 379 395	321 313 309 307 304	301 304 298 294 291	311 308 304 303 295	374 376 372 375 390	359 369 359 361 373	367 373 365 367 379	 236	 172	
11 12 13 14 15	423 412 408 414 408	370 395 393 399 360	405 403 400 406 385	301 300 314 305 322	283 289 282 288 278	291 294 295 298 302	416 438 449 450 450	388 416 438 440 439	396 427 443 445 445	274 292 302 320 306	191 219 257 280 285	232 262 280 302 293
16 17 18 19 20	387 368 367 365 369	350 347 330 355 330	373 357 354 359 359	344 319 319 322 337	292 286 276 305 316	309 305 301 313 325	445 443 436 417 414	430 398 388 382 375	438 428 422 402 403	293 271 241 217 218	268 237 212 210 205	283 254 227 213 211
21 22 23 24 25	391 390 392 383 389	343 354 363 361 354	358 372 380 371 371	336 343 348 574 372	313 318 336 342 344	329 332 342 362 355	419 420 392 478 463	373 374 376 387 456	405 392 386 413 459	208 210 203 205 196	191 189 198 196 186	200 201 200 199 192
26 27 28 29 30 31	388 378 372 	365 360 348 	373 370 360 	378 377 369 368 368 359	369 365 359 351 353 348	373 371 362 357 362 354	508 518 474 458 417	462 454 437 403 387	479 487 455 428 405	202 216 248 260 261 239	184 200 215 246 238 216	195 209 231 254 254 227
MONTELL	423	330	379	574	276	328	518	338	406			
MONTH	123	330	375	371	270	320	310	330	100			
MONTH	423	JUNE	379	3,1	JULY	320		AUGUST	100	Ş	SEPTEMBE	R
1 2 3 4 5	218 181 162 151 153		197 170 156 149 149	 173		 169			266 269 294 258 264	391 	370 	378
1 2 3 4	218 181 162 151	JUNE 180 160 148 146	197 170 156 149		JULY 171		278 350 355 262	AUGUST 254 251 262 251	266 269 294 258	391 	370 	378
1 2 3 4 5 6 7 8	218 181 162 151 153	JUNE 180 160 148 146 146	197 170 156 149 149	 173 176 256	JULY 171 168 168 171 172 233	 169 174 243	278 350 355 262 340 434 321 254 312	254 251 262 251 249 256 251 246 247	266 269 294 258 264 307 274 250 254	391 418 421 426 453	370 405 407 404 423	378 414 414 417 438
1 2 3 4 5 6 7 8 9 10 11 12 13 14	218 181 162 151 153 189 172	JUNE 180 160 148 146 146 178 170 163 161	197 170 156 149 149 183 168	 173 176 256 272 281 274 279 271	JULY 171 168 168 171 172 233 200 266 261 215 213	 169 174 243 259 274 268 266 256	278 350 355 262 340 434 321 254 312 323 343 330 302 289	254 251 262 251 249 256 251 246 247 282 300 302 289 275	266 269 294 258 264 307 274 250 254 295 313 316 294 282	391 418 421 426 453 457 470 475 479 473	370 405 407 404 423 447 437 453 456 454	378 414 417 438 453 455 463 469
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	218 181 162 151 153 189 172 172	JUNE 180 160 148 146 146 178 170 163 161 160 163 166 146	197 170 156 149 149 183 168 169	 173 176 256 272 281 274 279 271 264 246 252 220 214	JULY 171 168 168 171 172 233 200 266 261 215 213 197 229 179 181 210	 169 174 243 259 274 268 266 256 244 237 221 206 	278 350 355 262 340 434 321 254 312 323 343 330 289 275 276 283 305 311	254 251 262 251 249 256 251 246 247 282 300 300 302 275 267 266 275 267	266 269 294 258 264 307 274 250 254 295 313 316 294 282 269 278 290 306	391 418 421 426 453 457 470 475 479 473 476 478 485 506	370 405 407 404 423 447 437 456 454 450 460 462 472 472	378 414 417 438 453 455 463 469 464 466 467 477 480 489
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	218 181 162 151 153 189 172 172 149 144 140 199	JUNE 180 160 148 146 146 178 170 163 161 160 163 146 141 136 141 133	197 170 156 149 149 183 168 169 145 140 137 150	 173 176 256 272 281 274 279 271 264 252 220 214 239 186 250 220	JULY 171 168 168 171 172 233 200 266 261 215 213 197 229 179 179 179 179 179 171 175 176 181 184	 169 243 259 274 266 256 244 237 221 206 186 181 197	278 350 355 262 340 434 321 254 312 323 343 330 2289 275 276 283 305 311 308 314 317 325 332	254 251 262 251 249 256 251 246 247 282 300 302 289 275 267 266 275 267 266 275 282 301 302	266 269 294 258 264 307 274 250 254 295 313 316 294 282 269 278 290 306 305 311 311 322 327	391 418 421 426 453 457 470 475 479 473 476 478 485 506 512 495 679 471 456	370 405 407 404 423 447 437 456 454 450 460 460 462 472 472 472 480	378 414 414 417 438 453 455 463 469 464 466 467 477 480 489 497

ARKANSAS RIVER BASIN

07097000 ARKANSAS RIVER AT PORTLAND, CO--Continued

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

				TEMPERATU	RL, 117111	ar (BBO. C),	WITTER TE	in octob		SEI TEMBEI		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DI	ECEMBER			JANUARY	
1 2 3 4 5	16.8 15.3 14.6 16.1 17.0	11.7 11.3 10.0 11.2 11.3	14.2 13.1 12.3 13.5 14.0	9.1 9.6 9.5 10.5	5.3 5.0 6.2 6.9 6.1	6.9 7.1 7.8 8.5 7.8	4.5 3.5 2.9 2.5 3.5	1.2 1.2 1.1 1.1	2.6 2.1 1.7 1.5 2.0	6.7 8.2 8.4 6.4 3.4		5.2 6.1 6.5 5.0 2.0
6 7 8 9 10	17.5 16.9 16.8 16.2 16.4	11.9 11.9 11.3 10.8 10.5	14.6 14.3 14.0 13.5 13.7	8.0 7.0 6.5 8.3 9.1	5.8 4.0 3.0 4.0 4.5	5.3	2.4 4.0 4.9 6.1 6.7	1.7 1.2 1.3 2.8 3.8	2.0 2.4 2.9 4.3 5.1	1.6 1.2 1.2 1.2 1.2	1.1 1.1 1.1 1.1	1.2 1.1 1.1 1.1
11 12 13 14 15	17.2 17.4 17.2 16.5 16.6	11.4 11.6 11.8 11.7	14.3 14.5 14.1 14.3	9.1 8.3 8.5 7.4 6.9	5.2 5.0 5.2 5.6 5.0	6.9 6.4 6.8 6.4 5.9	7.3 6.7 6.6 5.0 3.1	4.5 3.6 3.5 2.5 1.3	5.6 5.0 4.9 3.6 2.1	1.1 1.2 1.1 1.1	1.1 1.1 1.1 1.1	1.1 1.1 1.1 1.1
16 17 18 19 20	15.5 12.6 12.2 13.1 11.4	10.8 9.3 6.2 7.5 9.1	13.1 11.0 9.3 10.2 10.3	6.4 5.5 7.9 9.2 10.1	4.4 3.4 3.5 4.7 6.0	5.6 4.3 5.4 6.9 8.0	2.7 1.2 1.2 1.2	1.1 1.1 1.1 1.1	1.5 1.1 1.1 1.1	1.2 1.2 1.8 4.1 4.2	1.1 1.1 1.1 1.2 1.3	1.1 1.1 1.3 2.1 2.3
21 22 23 24 25	9.1 9.4 9.5 10.5 10.7	6.6 4.3 5.8 6.0 6.8	7.7 6.8 7.8 8.2 8.7	8.9 8.6 7.2 7.2 6.6	5.8 5.1 5.8 4.3 3.4	7.2 6.7 6.4 5.7 4.8	1.2 1.3 2.3 3.0 3.6	1.1 1.1 1.2 1.1	1.1 1.2 1.5 1.7 2.0	4.0 3.5 4.1 3.5 3.0	1.3 1.1 1.3 1.2	2.3 2.0 2.4 2.0
26 27 28 29 30 31	9.4 7.6 9.2 9.3 9.8 7.7	6.1 4.7 4.6 5.4 5.7 6.1	7.9 5.9 6.8 7.3 7.6 6.6	5.0 4.4 4.8 4.9 4.7	2.7 1.8 1.2 2.3 2.2	3.6 2.9 3.0 3.5 3.3	1.9 4.3 4.2 5.1 5.0 6.6	1.1 1.7 1.3 1.2 2.4 3.1	1.4 2.7 2.5 2.8 3.7 4.8	4.8 2.9 3.6 3.5 5.1 7.2	1.5 1.2 1.1 1.9 1.2 3.0	2.9 1.7 2.0 2.4 2.9 4.9
MONTH	17.5			10.5	1.2	5.9	7.3	1.1	2.6	8.4	1.1	2.3
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	7.5 6.7 6.7 5.1 3.7	4.2 3.9 3.3 2.1 1.1	5.6 5.2 4.7 3.4 2.2		2.7 2.8 3.6 2.7 1.5	4.3 4.9 5.4 3.9	11.4 8.8 10.8 11.6 9.9	8.8 6.4 5.7 7.5 6.4	9.8 7.6 8.0 9.3 8.3	13.3 12.8 15.7 16.9 18.3	9.5 7.2 7.4 9.6 11.2	11.5 10.2 11.6 13.3 14.6
6 7 8 9 10	2.7 4.4 4.7 5.0 4.1	1.2 1.2 1.2 1.3	1.8 2.4 2.5 2.7	7.9 8.6 9.1 9.0	2.7 3.3 3.8	4.9 5.5 6.1	10.0 11.9	4.8 5.1	7.2 8.2 8.8	17.7 16.6	11.0 12.5	14.7 14.7 13.2
11 12		1.5	2.4	8.9	4.8 5.3	6.6	11.0 11.0 8.3	7.1 5.9 2.2	8.3 5.7	14.6 18.1 18.9	11.7 11.0 12.6	14.3 15.6
13 14 15	4.7 5.7 6.5 7.3 7.9	1.4 2.4 2.8 2.4	2.4 2.6 3.8 4.3 4.5		5.3 5.2 6.5 5.9 3.2	6.6 6.8 7.3 7.9 7.6 4.8	11.0 8.3 7.8 8.4 10.9 10.8	5.9 2.2 1.0 1.0 2.7 4.8	8.3 5.7 3.9 4.5 6.6 7.8	18.1 18.9 17.5 17.7 17.5 16.8	11.0	14.3 15.6 15.2 14.7 14.9 14.7
14	5.7 6.5 7.3	1.4 2.4 2.8 2.4	2.4 2.6 3.8 4.3 4.5	8.9 10.0 10.1 10.1 5.9	5.3 5.2 6.5 5.9 3.2 2.5	6.6 6.8 7.3 7.9 7.6 4.8	11.0 8.3 7.8 8.4 10.9 10.8 14.5	5.9 2.2 1.0 1.0 2.7 4.8 6.7	8.3 5.7 3.9 4.5 6.6 7.8	18.1 18.9 17.5 17.7 17.5 16.8	11.0 12.6 13.2 12.2 12.5 13.1 12.6	14.3 15.6 15.2 14.7 14.9 14.7
14 15 16 17 18 19	5.7 6.5 7.3 7.9 8.3 8.4 9.7	1.4 2.4 2.8 2.4 2.6 3.5 4.5 5.2 6.4	2.4 2.6 3.8 4.3 4.5 5.0 5.6 6.2 7.1 8.0	8.9 10.0 10.1 10.1 5.9 6.5 9.0 11.4 11.8 13.3	5.3 5.2 6.5 9.3 2.5 3.5 8.6 9.6 9.6 9.6 8.2	6.6 6.8 7.3 7.9 7.6 4.8 4.3 6.3 8.6 9.2	11.0 8.3 7.8 8.4 10.9 10.8 14.5 17.1 17.0 18.3 17.5	5.9 2.2 1.0 1.0 2.7 4.8 6.7 9.4 10.0 10.8 11.5	8.3 5.7 3.9 4.5 6.6 7.8 10.3 12.8 13.4 14.4	18.1 18.9 17.5 17.7 17.5 16.8 18.1 18.2 17.4 15.8 14.1	11.0 12.6 13.2 12.2 12.5 13.1 12.6 13.6 13.6 13.7 12.1	14.3 15.6 15.2 14.7 14.9 14.7 15.1 15.7 15.3 14.7 12.7
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	5.7 6.5 7.3 7.9 8.3 8.4 9.7 10.4 8.4 7.5 5.5 3.3 3.1	1.4 2.4 2.8 2.4 2.6 3.5 4.5 5.2 6.4 4.9 2.5 1.5	2.4 2.6 3.8 4.5 5.0 5.6 6.2 7.1 8.0 6.8 4.8 3.4 2.1 1.7 2.0 3.2 3.1 3.9 	8.9 10.0 10.1 10.1 10.1 5.9 6.5 9.0 11.4 11.8 13.3 14.5 13.5 12.9 13.3 10.6 10.6 13.0 13.5 13.2 10.1 12.7	5.3 5.2 6.5 5.9 2.5 3.5 6.8 6.9 7.9 8.6 9.6 7.9 8.2 5.0 6.2 7.8 8.2 6.2 7.6 6.2 7.8	6.6 6.8 7.3 7.9 7.6 4.8 4.3 6.3 8.6 9.2 10.1 11.2 11.2 10.3 10.7 8.8 7.5	11.0 8.3 7.8 8.4 10.9 10.8 14.5 17.1 17.0 18.3 17.5 18.0 15.0 14.4 12.9 10.6 8.3 11.5 15.2 15.1 16.5	5.9 2.2 1.0 1.0 2.7 4.8 6.7 9.4 10.0 10.8 11.5 11.7 11.4 9.6 10.1 5.9 4.6 6.2 8.2 10.6 10.3 9.2	8.3 5.7 3.9 4.5 6.6 7.8 10.3 12.8 13.4 14.4 14.5 14.6 13.2 12.0 11.5 8.0 6.2 8.5 11.5 12.8 13.3 12.4	18.1 18.9 17.5 17.7 17.5 16.8 18.1 18.2 17.4 15.3 14.5 14.3 14.5 14.3 14.5 14.7 14.8 13.9 14.9 14.9 14.6 17.6	11.0 12.6 13.2 12.2 12.5 13.1 12.6 13.6 13.7 12.1 11.1 12.4 12.3 12.3 11.7 11.1	14.3 15.6 15.2 14.7 14.7 15.1 15.7 15.3 14.7 12.7 13.2 13.5 13.3 13.1 12.9 12.7 13.2 13.5 13.5 13.7 12.7
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	5.7 6.5 7.9 8.3 8.4 9.7 10.4 8.4 7.5 5.5 3.3 3.1 4.0 6.1 5.6 6.6	1.4 2.4 2.8 2.4 2.6 3.5 4.5 5.2 6.4 4.9 2.5 1.4 1.2 1.2	2.4 2.6 3.8 4.5 5.0 5.6 6.2 7.1 8.0 6.8 4.8 3.4 2.1 1.7 2.0 3.2 3.1 3.9 	8.9 10.0 10.1 10.1 5.9 6.5 9.0 11.4 11.8 13.3 14.5 13.5 12.9 13.3 10.6 10.6	5.3 5.2 6.5 5.9 3.5 6.8 6.9 7.6 8.6 9.6 7.9 8.2 5.6 5.0 6.2 7.8 8.2 7.8 7.8	6.6 6.8 7.3 7.9 7.6 4.8 4.3 6.3 8.6 9.2 10.1 11.2 11.2 10.3 10.7 8.8 7.5 9.3 10.3 10.4 8.7	11.0 8.3 7.8 8.4 10.9 10.8 14.5 17.1 17.0 18.3 17.5 18.0 15.0 14.4 12.9 10.6 8.3 11.5 15.2 15.1 16.5	5.9 2.2 1.0 1.0 2.7 4.8 6.7 9.4 10.0 10.8 11.5 11.7 11.4 9.6 10.1 5.9 4.6	8.3 5.7 3.9 4.5 6.6 7.8 10.3 12.8 13.4 14.5 14.6 13.2 12.0 11.5 8.0 6.2 8.5 11.5 12.8 13.3	18.1 18.9 17.5 17.7 17.5 16.8 18.1 18.2 17.4 15.3 14.5 14.1 15.3 14.5 14.3 14.5 14.5 14.2 14.7	11.0 12.6 13.2 12.25 13.1 12.6 13.6 13.7 12.1 11.1 12.4 12.3 11.7 11.1	14.3 15.6 15.2 14.7 14.7 15.1 15.7 15.3 14.7 12.7 13.2 13.5 13.3 13.1 12.9 12.7

07097000 ARKANSAS RIVER AT PORTLAND, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1 2 3 4 5	17.9 16.3 15.9 16.3 15.4	15.0 14.8 14.2 13.7 13.5	16.4 15.4 15.0 14.9 14.5	18.0 17.4 17.8 18.7 18.2	15.4 14.8 14.9 15.6 16.0	16.7 16.1 16.3 16.9	22.6 23.0 22.8 21.9 19.9	19.1 19.5 19.2 19.6 18.6	20.8 20.7 20.7 20.5 19.3	22.9 23.0 23.4 	18.1 18.9 19.6 19.7 20.5	20.1 20.6 21.2
6 7 8 9 10	14.8 14.2 13.9 13.9	13.0 13.2 12.6 11.4 12.3	14.1 13.8 13.1 12.4 13.7	17.8 18.6 17.7 18.4 19.4	15.5 15.8 15.4 14.9 15.4	16.4 16.8 16.2 16.6 17.2	19.5 18.9 20.8 21.2 18.5	17.2 16.1 16.5 17.7 17.4	18.5 17.3 18.3 19.0 18.0	22.2 22.5 22.4 20.4 21.7	18.3 17.1 17.1 17.4 16.6	20.2 19.7 19.7 18.9 19.0
11 12 13 14 15	15.7 15.6 15.1 16.4 15.0	12.8 13.5 13.1 13.9 12.9	14.3 14.6 14.2 15.0 14.1	19.6 19.9 20.5 21.8 22.5	16.8 15.5 16.4 17.3 18.3	17.7 17.4 18.2 19.3 20.2	19.5 20.0 20.7 20.1 20.2	17.0 16.1 17.1 16.7 16.4	18.1 18.0 18.9 18.2 18.2	21.8 22.4 21.9 22.4 21.4	16.9 16.9 17.0 17.2 16.8	19.3 19.6 19.6 19.7 19.2
16 17 18 19 20	14.9 16.0 17.4 17.6 17.3	12.7 13.3 14.1 15.1 15.2	13.7 14.5 15.5 16.3 16.2	21.4 20.9 20.5 19.7 20.4	18.1 17.1 17.3 16.6 17.3	19.4 18.7 18.4 17.9 18.7	20.9 21.4 21.3 21.5 21.9	17.3 17.5 18.5 17.7 17.7	18.8 19.2 19.8 19.4 19.6	19.5 20.9 20.6 20.8 18.1	16.5 16.2 16.0 16.4 14.1	18.2 18.4 18.5 18.6 15.6
21 22 23 24 25	17.1 17.2 17.3 17.3	14.6 15.1 14.6 14.9 14.6	15.9 16.2 16.0 16.2 15.8	21.0 21.1 21.9 22.3 22.1	17.2 17.4 18.1 18.5 18.9	18.9 19.1 19.7 20.2 20.3	22.0 22.3 23.2 23.9 23.8	17.8 17.3 18.2 18.6 19.0	19.6 19.6 20.5 21.0	14.6 17.1 16.3 17.6 18.9	13.3 13.6 14.4 13.7 14.1	13.9 15.1 15.1 15.4 16.3
26 27 28 29 30 31	17.7 16.7 17.0 18.0 18.1	14.9 14.6 14.2 14.7 15.5	16.1 15.7 15.7 16.4 16.8	21.9 22.4 20.8 21.6 22.0 22.1	18.7 18.3 18.7 18.1 18.7	20.2 20.0 19.5 19.5 20.2 20.4	24.1 24.2 24.1 24.6 20.8 22.2	19.6 19.6 20.0 18.5	21.0 21.7 21.9 19.6 19.6	18.5 19.7 19.0 18.9 19.0	15.0 15.5 15.2 14.5 14.5	16.7 17.4 16.9 16.5 16.6
MONTH		11.4	15.1	22.5	14.8	18.4	24.6				13.3	

07099050 BEAVER CREEK ABOVE UPPER BEAVER CEMETERY, NEAR PENROSE, CO

LOCATION.--Lat 38°33'42", long 105°01'17", in SE¹/4NW¹/4NE¹/4 sec.20, T.17 S., R.68 W., Fremont County, Hydrologic Unit 11020002, on left bank 40 ft upstream from bridge on Fremont County Road 132, 1 mi downstream from Banta Gulch, 1.3 mi northeast of Upper Beaver Cemetery, and 9.2 mi north of Penrose.

DRAINAGE AREA.--122 mi².

PERIOD OF RECORD.--March 1991 to current year (seasonal record). Water-quality data available, March 1991 to September 1994.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,020 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of creek affected by storage reservoirs and diversions for municipal use by the City of Colorado Springs. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge during period of seasonal operation, 659 ft³/s, June 10, 1997, gage height, 5.57 ft, from rating curve extended above 600 ft³/s; maximum gage height, 6.45 ft, May 12, 1994; minimum daily, 4.2 ft³/s, Mar. 25, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 659 ft³/s, June 10, gage height, 5.57 ft; minimum daily, 4.5 ft³/s, Mar. 9.

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

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	16					14	81	125	76	86	79
2	26	14					14	67	133	68	98	72
3	26	15					10	63	137	65	110	68
4	25	17					20	71	130	61	89	71
5	27	15					17	98	131	60	138	73
3	27	13					17	50	131	00	130	73
6	25	15					10	108	134	56	138	60
7	22	12					9.3	109	189	53	123	56
8	19	8.5				4.9	13	104	195	51	117	52
9	17	17				4.5	14	100	209	51	105	e48
10	17	16				5.1	15	100	538	47	118	e46
11	17	13				5.5	15	96	597	40	110	e48
12	17	12				8.1	15	102	560	43	98	e52
13	e17	13				9.5	14	101	520	35	90	e48
14	e15	13				10	11	98	388	30	81	e44
15	e14	12				10	13	102	362	28	73	e43
	CII						13	102	302		, 5	015
16	e12	12				12	14	104	349	25	66	e42
17	e14	9.4				14	15	107	309	23	63	e40
18	e15	13				14	19	112	274	26	79	40
19	16	14				13	19	119	261	35	75	37
20	18	14				18	20	120	e223	37	65	40
21	23					24	21	119	e190	38	63	43
22	16					19	19	123	e170	31	57	44
23	19					16	20	129	e160	19	61	47
24	19					16	46	128	148	22	54	45
25	18					12	24	121	136	21	58	39
26	18					11	22	120	133	23	110	36
27	21					15	34	112	121	24	84	34
28	20					16	55	111	110	46	67	32
29	25					15	71	116	94	54	68	29
30	19					11	94	120	84	110	69	28
31	19					12		124		82	71	
moma r	600						607.3	2005	7110	1200	0604	1.426
TOTAL	602 19.4						697.3 23.2	3285	7110	1380	2684	1436
MEAN	19.4 27						23.2 94	106	237	44.5	86.6	47.9
MAX								129	597	110	138	79
MIN	12						9.3	63	84	19	54	28
AC-FT	1190						1380	6520	14100	2740	5320	2850

e-Estimated.

07099060 BEAVER CREEK ABOVE HIGHWAY 115, NEAR PENROSE, CO

LOCATION.--Lat 38°29'21", long 104°59'49", in NE¹/4NE¹/4 sec.16, T.18 S., R.68 W., Fremont County, Hydrologic Unit 11020002, on left bank 300 ft downstream from Beaver Park Irrigation Company diversion dam, 1.8 mi upstream from Highway 115, and 4.7 mi north of Penrose.

DRAINAGE AREA.--138 mi².

PERIOD OF RECORD.--March 1991 to current year (seasonal record).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,659.08 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges and discharges below 1.5 ft³/s, which are poor. Natural flow of creek is affected by storage reservoirs, diversions for muncipal use by Colorado Springs, and diversions for irrigation, mainly by the Beaver Park Irrigation Company. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge during period of seasonal operation, 611 ft³/s, May 30, 1995, gage height, 6.55 ft, from rating curve extended above 420 ft³/s; no flow many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 500 ft³/s, June 10, gage height, 6.45 ft, from rating curve extended above 420 ft³/s; no flow many days.

			DISCHA	ARGE, CUBIO	C FEET PER		WATER YEA Y MEAN VALU		1996 TO S	EPTEMBER	1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	.02	.02					.07	81 50	53 58	28 23	41 51	33 29
3 4 5	.02 .02 .02	.00 .00 .00					.06 .05 .11	40 41 63	58 53 53	20 16 15	57 45 66	23 25 29
6 7	.02	.00				.14	.06	88 83	52 128	11 9.2	66 60	14 9.0
8 9	.03	.00				.20	.03	69 63	126 154	9.2 9.8 9.2	56 50	7.7 5.5
10	.03	.30				.12	.08	61	438	3.1	61	3.1
11 12 13	.03 .02 .03	.77 e3.0 1.4				.12 .12 .12	.08 .07 .06	57 63 64	403 364 346	.00 .00 .00	80 61 48	3.5 7.5 3.8
14 15	.02	.65 .72				.11	.06	62 62	280 236	.00	41 34	3.5 1.3
16 17	.03	.32				.10	.06	62 63	218 189	.00	28 25	.50
18 19	.02	1.2				.12	.04	64 72	151 133	.00	35 34	.00
20	.02	.10				.11	.05	71	102	.00	22	.00
21 22 23	6.9 .26 .02	e.03 				.60 .12 .09	.05 .04 .04	69 68 75	86 75 65	.00 .00	20 12 16	3.8 3.9 7.0
24 25	.12					.08	56 19	72 63	61 57	.00	6.4 8.6	12 11
26 27	.03					.08	12 23	61 54	58 53	.00	50 40	6.2
28 29	5.0 13					.07	e90 e100	51 55	48 41	4.3 6.8	25 24	1.2 1.3
30 31	.15 .02					.06 .06	e90 	57 55	34	54 41	25 27	1.6
TOTAL MEAN	31.76 1.02						391.32 13.0	1959 63.2	4173 139	250.40 8.08	1215.0 39.2	249.90 8.33
MAX MIN	13 .02						100	88 40	438 34	54 .00	80 6.4	33
AC-FT	63						776	3890	8280	497	2410	496

e-Estimated.

07099215 TURKEY CREEK NEAR FOUNTAIN, CO

LOCATION.--Lat 38°36'42", long 104°53'39", in NW1/4SE1/4 sec. 33, T.16 S., R.67 W., El Paso County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, on left (revised) bank 100 ft downstream from State Highway 115 bridge, 0.7 mi downstream from Turkey Canyon, 0.8 mi upstream from Turkey Creek Ranch, and 9.4 mi southwest of Fountain.

DRAINAGE AREA.--13.0 mi².

PERIOD OF RECORD.--Streamflow records, May 1978 to September 1989, May 1995 to current year. Water-quality data available, May 1978 to September 1982.

REVISED RECORDS.--WDR CO-80-1: 1978-79 (M). WDR CO-96-1: 1980 (M), 1982-86 (M).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,420 ft above sea level, from topographic map.

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

DISCHARGE CUBIC FEET PER SECOND WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

			DISCH	ARGE, CUBI	IC FEET PER S		VATER YEAI MEAN VALU		R 1996 TO SI	EPTEMBER 1	997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.33	.22	.30	.00	e.30	e.15	.00	15	5.2	5.4	3.3	2.3
2	.30	.16	. 28	.00	e.20	e.15	.01	13	4.7	5.0	2.9	2.1
3 4	.29 .24	.16 .13	.31 .47	.01 .06	e.15 e.10	e.15 e.14	.00	10 11	4.2 3.7	4.5 4.4	2.5 2.5	1.9 1.9
5	.22	.13	.37	e.06	e.09	e.15	.01	20	3.5	4.0	7.4	2.3
6	.18	.13	. 43	e.04	e.09	e.16	.03	26	4.2	3.6	6.8	1.8
7	.16	.18	.45	e.04	e.10	.20	.05	27	12	3.2	6.3	1.6
8	.17	.14	.74	e.04	e.10	.23	.00	26	14	3.1	5.5	1.5
9	.12	.09	.12	e.02	e.15	.20	.01	24	23	3.2	4.8	1.4
10	.12	.07	.08	e.02	e.20	.19	.00	24	e380	2.5	6.4	1.4
11 12	.07 .07	.05 .07	.07 .07	e.01 e.00	e.18 e.15	.20	.19 .16	23 22	e80 e50	2.4	6.2 5.9	1.3
13	.05	.06	.13	e.00	e.15 e.15	.20	.15	20	e60	2.4	5.3	1.3
14	.00	.08	.12	e.00	e.18	.24	.16	19	e30	1.7	4.6	1.1
15	.01	.09	.09	e.00	e.20	.18	.07	18	e28	1.7	3.9	1.0
16	.01	e.07	e.07	e.00	e.18	.18	.05	17	e25	1.5	3.4	.96
17	.04	e.06	e.06	e.00	e.18	.28	.00	16	22	1.3	3.2	.92
18 19	.06	e.06 e.07	e.04 e.04	e.00 e.02	e.20 e.18	.27	.00	15 16	21 19	1.2 1.3	3.2 2.9	.89 .85
20	.02	.08	e.04 e.05	e.02 e.10	e.16	.16	.00	13	15	1.6	2.6	.83
21	.23	.11	e.07	e.15	e.15	.13	.00	12	13	1.3	2.6	.79
22	.14	.10	e.08	e.20	e.14	.14	.00	12	11	1.0	2.3	.84
23	.09	.13	e.07	e.22	e.12	.12	.00	11	10	.89	2.3	.96
24	.04	e.17	e.07	e.20	e.10	.11	2.3	10	9.2	.83	2.2	.83
25	.00	e.19	e.08	e.18	e.10	.09	6.2	8.8	8.5	.68	2.2	.79
26 27	.02 .28	.25 .28	e.06 e.08	e.20 e.12	e.12 e.12	.00	.16 .36	8.2 7.2	8.1 7.5	.76 .68	3.9 5.0	.77 .71
28	.28	.30	e.10	e.12 e.10	e.12 e.13	.00	3.0	6.7	7.0	3.9	3.3	.69
29	.31	.27	.12	e.15		.01	14	6.5	6.5	5.2	2.9	.64
30	.26	.18	.00	e.20		.01	18	6.8	6.0	4.7	2.5	.67
31	.23		.00	e.25		.00		5.9		3.1	2.3	
TOTAL	4.34	4.08	5.02	2.39	4.22	4.47	44.93	470.1	891.3	79.04	121.1	36.24
MEAN MAX	.14	.14	.16 .74	.077 .25	.15 .30	.14 .28	1.50 18	15.2 27	29.7 380	2.55 5.4	3.91 7.4	1.21
MIN	.00	.05	.00	.00	.09	.00	.00	5.9	3.5	.68	2.2	.64
AC-FT	8.6	8.1	10	4.7	8.4	8.9	89	932	1770	157	240	72
STATIST	ICS OF MO	ONTHLY MEAN	DATA F		YEARS 1978		BY WATER	YEAR (WY	()			
MEAN	1.42	.80	.33	.17	.15	.34	1.45	7.26	6.36	1.37	2.14	.85
MAX (WY)	14.6 1985	7.06 1985	2.34 1985	1.17 1985	.82 1985	1.41 1987	8.01 1985	36.6 1980	29.7 1997	5.11 1995	13.8 1982	6.38 1982
MIN	.000	.000	.000	.000	.000	.000	.000	.057	.006	.002	.000	.000
(WY)	1979	1979	1979	1979	1979	1980	1981	1981	1978	1989	1989	1978
SUMMARY	STATISTI	ICS	FOR :	1996 CALE	NDAR YEAR	F	OR 1997 W	ATER YEAR	2	WATER Y	EARS 1978	- 1997
ANNUAL '	TOTAL			115.0	7		1667.23	3				
ANNUAL I				. 3	1		4.57	7		1.8		
	ANNUAL N									5.5		1985
	ANNUAL ME DAILY ME			a _{8.5}	Jul 10		e ₃₈₀	Jun 10	1	e ₃₈₀ .0	83 .Tun 1	1989 .0 1997
	DAILY MEA			b. 0	0 Jan 1		b.00 b.00	0 Oct 14		b.0	0 Jun	4 1978
		MINIMUM		b.0	0 Jan 1			0 Jan 12				9 1978
	ANEOUS PE						^C 850	Jun 10		^C 850	Jun 1	0 1997
		EAK STAGE					d _{6.56}	5 Jun 10)	^a 6.5	6 Jun 1	.0 1997
	RUNOFF (A			228	•		3310			1320		
	ENT EXCEE			.70			12 .24	1		4.6		
	ENT EXCER			.00			.01			.0		

e-Estimated.

a-Also occurred Aug 24. b-No flow many days some years. c-From rating curve extended above 400 ft³/s on the basis of slope-area measurement of peak flow. d-From floodmarks.

07099230 TURKEY CREEK ABOVE TELLER RESERVOIR, NEAR STONE CITY, CO

LOCATION.--Lat 38°27'54", long 104°49'33", in NE1/4SW1/4 sec.19, T.18 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, on left bank, 0.7 mi northwest of intersection of military roads 9 and 1, 2.2 mi upstream from Teller Reservoir Dam, and 2.2 mi northeast of Stone City.

DRAINAGE AREA.--62.3 mi².

REVISED RECORDS.--WDR CO-89-1: Drainage area.

PERIOD OF RECORD.--Streamflow records, May 1978 to current year. Water-quality data available, May 1978 to September 1981.

GAGE.--Water-stage recorder with satellite telemetry and concrete control with V-notch sharp-crested weir. Elevation of gage is 5,520 ft above sea level, from topographic map. Prior to July 20, 1989, at site 0.6 mi downstream, at different datum.

REMARKS.--Records fair except for June 13 to Aug. 11, and those above 190 ft³/s, which are poor. Diversions upstream from gage for irrigation, amount unknown. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.13 .14 .15 .14	.12 .10 .10 .10	.24 .25 .27 .29	.40 .41 .38 .36	.63 .68 .70 .74	.99 1.0 1.0 1.0	.90 .93 .92 .92	13 14 14 13 16	14 13 12 11 127	5.0 4.5 4.0 3.5 3.0	2.0 1.6 1.4 1.5 3.1	3.6 3.3 3.0 2.8 2.6
6 7 8 9 10	.13 .14 .14 .14	.11 .12 .12 .13	.34 .37 .40 .40	.37 .38 .38 .38	.85 .87 .92 .95	.99 .96 .95 .91	.92 .89 .88 .90	25 32 35 33 34	31 16 19 25 506	2.5 2.0 1.5 2.0 2.0	e30 e15 e10 e8.0 e18	2.5 2.1 1.8 1.6
11 12 13 14 15	.14 .14 .14 .14	.11 .12 .13 .14	.44 .36 .37 .40	. 41 . 42 . 43 . 43 . 43	.97 1.0 1.0 .97	.86 .86 .85 .85	.90 .92 .92 .88	33 33 32 30 29	207 133 111 106 110	2.0 1.5 2.0 1.5	15 13 11 10 8.9	1.3 1.2 .86 .64
16 17 18 19 20	.13 .13 .13 .14	.15 .15 .16 .17	.43 .43 .43 .41	.44 .48 .52 .51	.95 .95 .95 .98	.90 .85 .85 .86	.85 .88 .79 .75 .73	28 27 26 28 25	81 35 32 36 31	1.5 1.4 1.3 1.2	7.6 6.8 6.4 6.2 5.1	.40 .34 .33 .31
21 22 23 24 25	.15 .15 .15 .15	.15 .16 .16 .17	.37 .35 .33 .33	.51 .50 .52 .57	1.0 .98 .98 .92	.88 .92 .97 1.0	.73 .75 .77 1.4 1.2	23 22 23 22 20	20 20 23 22 19	1.3 1.1 1.4 1.3	4.4 3.6 3.1 2.6 2.0	1.0 .99 1.4 1.9
26 27 28 29 30 31	.16 .18 .19 .18 .17	.19 .21 .22 .22 .21	.35 .35 .35 .35 .36	.55 .54 .60 .59 .62	1.0 .99 1.0 	1.0 .95 .90 .97 .97	1.1 1.2 1.1 1.1 3.7	19 17 16 16 15	13 9.6 7.9 6.3 5.7	1.2 1.2 1.0 1.0 1.2	2.3 4.7 5.0 4.0 4.1 3.6	1.3 1.0 .82 .78 .61
TOTAL MEAN MAX MIN AC-FT	4.53 .15 .19 .13 9.0	4.44 .15 .22 .10 8.8	11.25 .36 .44 .24 .22	14.57 .47 .62 .36 29	25.67 .92 1.0 .63 51	28.77 .93 1.0 .85 57	30.62 1.02 3.7 .73 61	728 23.5 35 13 1440	1802.5 60.1 506 5.7 3580	58.5 1.89 5.0 1.0 116	220.0 7.10 30 1.4 436	42.82 1.43 3.6 .31 85
MEAN MAX (WY) MIN (WY)	3.01 44.6 1985 .000 1979	1.99 26.7 1985 .000 1979	.87 6.47 1985 .000 1979	.67 2.69 1985 .000 1979	.66 2.58 1985 .000 1979	.63 2.75 1985 .000 1979	1.26 12.9 1985 .000 1979	12.6 73.6 1980 .000 1979	11.6 60.1 1997 .000	2.95 17.1 1985 .000 1978	3.91 40.9 1982 .000 1990	1.54 18.1 1982 .000 1978
SUMMARY	STATISTI	CS	FOR	1996 CALEN	DAR YEAR	F	OR 1997 WAT	ER YEAR	₹	WATER Y	EARS 1978	- 1997
LOWEST A	MEAN ANNUAL M ANNUAL ME	AN		256.95 .70			2971.67 8.14	Jun 10		3.5 ⁷ 13.1 .00 506	00	1985 1991 10 1997
HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW			a.07	Jul 6		b.10 .11 2090	Nov 2 Nov 3 Jun 5	2 L 5	d ₃₆₄₀ .00) May) May Aug	18 1978 18 1978 20 1982	
INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				510 1.3 .40 .14			11.03 5890 21 .94	Jun 5		f _{11.53} 2590 5.4 .43	3	20 1982

e-Estimated.

a-Also occurred Jul 7-8. b-Also occurred Nov 3-4.

c-No flow many days during most years. d-From rating curve extended above 100 ${\rm ft}^3/{\rm s}$, on the basis of slope-area measurements at gage heights 8.04 ft and 11.27 ft. f-Maximum gage height, 11.88 ft, Jun 8, 1987, site and datum then in use.

07099233 TELLER RESERVOIR NEAR STONE CITY, CO

LOCATION.--Lat 38°26'33", long 104°49'31", in SE¹/4NW¹/4 sec.31, T.18 S., R.66 W., in Pueblo County, Hydrologic Unit 11020002, at left upstream end of dam on Turkey Creek on Fort Carson Military Reservation, 1.4 mi upstream from Booth Gulch, and 2.0 mi east of Stone City.

DRAINAGE AREA.--71.5 mi².

PERIOD OF RECORD.--September 1978 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,453 ft above sea level, from topographic map.

REMARKS.--Records good except for June 14-20 and estimated midnight contents which are poor. Reservoir is formed by an earthfill dam completed around 1908. Maximum capacity of reservoir is 1,780 acre-ft at an uncontrolled spillway elevation of about 88 ft, 1980 survey. There is a controlled outlet from reservoir, however, considerable leakage occurs. Reservoir is used for recreation and for amphibious training for Fort Carson.

EXTREMES (at 2400) FOR PERIOD OF RECORD.--Maximum contents, 2,210 acre-ft, June 21, 1980, elevation, 90.15 ft, from capacity curve extended above 88 ft; no contents during 1979, 1991-1994 water years.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

EXTREMES (at 2400) FOR CURRENT YEAR.--Maximum contents, 1,630 acre-ft, June 10, elevation, 87.12 ft; minimum contents, 376 acre-ft, Mar. 28, Apr. 3, 8, 19-21, elevation, 76.76 ft, Apr. 20.

			TLD.					24:00 VALU		TEMBER 19		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	466	424	403	390	385	388	378	452	1270	1090	961	1190
2	464 462	423 422	402	389	385	388	377	478	1260	1070	930 914	1190
3	462	422 421	401 400	388 388	384 384	388 388	376 378	511 540	1260 1250	1040 1020	e1000	1190 1190
4 5	459	421	399	386	384	388	378 378	540 570	1390	991	e1000	1180
6	458	418	400	386	383	386	378	621	1360	965	e1130	1180
7	456	416	399	386	383	386	377	688	1290	936	e1160	1180
8	454	416	398	385	382	386	376	762	1260	931	e1180	1170
9	452	415	399	384	382	386	377	830	1270	938	e1200	1170
10	450	414	398	384	382	385	378	896	1630	942	e1220	1170
11	449	413	397	384	382	384	378	964	1520	944	e1240	1170
12	447	412	396	384	382	384	379	1030	1450	944	1240	1160
13	445	412	395	383	383	383	379	1080	1430	944	1240	1160
14	443	412	394	382	382	383	379	1140	1420	943	1230	1150
15	441	411	394	382	382	383	380	1190	1380	940	1220	1150
16	439	410	394	382	383	382	379	1240	1360	936	1220	1140
17	437	409	392	381	383	382	378	1280	1340	934	1220	1140
18	435	409	392	381	384	382	377	1290	1310	939	1210	1130
19	433	408	390	382	386	381	376	1300	1290	943	1210	1130
20	432	407	390	384	385	381	376	1300	1280	946	1200	1130
21	431	407	388	383	385	380	376	1300	1270	953	1200	1130
22	430	407	389	383	385	380	377	1300	1250	964	1190	1130
23	428	407	388	384	385	379	380	1300	1230	970	1190	1130
24	428	407	388	384	386	379	415	1300	1220	980	1180	1130
25	426	406	388	384	386	378	426	1290	1200	993	1180	1130
26	424	406	386	384	386	378	432	1290	1190	1000	1180	1120
27	428	406	388	384	388	377	435	1280	1180	1010	1180	1120
28	428	405	388	384	388	376	438	1280	1160	1020	1180	1120
29	426	405	388	384		378	438	1280	1140	1010	1190	1120
30	426	403	388	384		378	438	1280	1120	993	1190	1110
31	426		389	385		377		1270		977	1190	
TOTAL	13683	12351	12201	11914	10755	11854	11709	32332	38980	30206	36075	34510
MEAN	441	412	394	384	384	382	390	1040	1300	974	1160	1150
MAX	466	424	403	390	388	388	438	1300	1630	1090	1240	1190
MIN	424	403	386	381	382	376	376	452	1120	931	914	1110
							0					

CAL YR 1996 TOTAL 202191 MEAN 552 MAX 676 MIN 386 WTR YR 1997 TOTAL 256570 MEAN 703 MAX 1630 MIN 376

e-Estimated.

07099235 TURKEY CREEK NEAR STONE CITY, CO

No. 11, and 2.0 mi southeast of Stone City.

DRAINAGE AREA.--71.5 mi².

PERIOD OF RECORD.--May 1978 to November 1984, June 1987 to current year.

REVISED RECORDS.--WDR CO-80-1: 1979(M).

GAGE.--Water-stage recorder with satellite telemetry, and concrete control with V-notch sharp-crested weir since Dec. 6, 1989. Elevation of gage is 5,395 ft above sea level, from topographic map. Prior to June 12, 1987, at site 0.1 mi upstream at different datum.

REMARKS.--Records are fair except Oct. 1 to July 7, which are poor. Flow regulated by Teller Reservoir 0.2 mi upstream. Gage records seepage and releases from reservoir. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

P 37 3 3 3			DISCH	ARGE, CUBIC	FEET PER S	SECOND, W		R OCTOBER JES	1996 TO SE	EPTEMBER 1	997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.14 .14 .14 .14	.10 .11 .12 .15	.08 .07 .07 .08	.06 .06 .05 .05	.04 .05 .04 .05	.08 .08 .08 .07	.02 .02 .02 .02 .03	.06 .06 .07 .09	2.2 2.2 2.1 2.3 2.4	e1.0 e.90 e.80 e.75 e.70	.42 .44 .45 .53	2.3 2.3 2.3 2.3 2.2
6 7 8 9 10	.16 .14 .11 .10	.11 .11 .11 .12	.09 .09 .10 .08	.05 .05 .05 .05	.05 .05 .05 .05	.07 .07 .07 .06	.03 .02 .02 .01	.10 .12 .15 .22	11 16 15 15 44	e.65 e.60 e.56 .52 .51	1.3 1.4 1.6 1.6	2.1 2.1 2.0 2.0 1.9
11 12 13 14 15	.13 .14 .15 .18	.12 .11 .11 .12 .12	.07 .08 .07 .06	.04 .04 .04 .05	.05 .06 .07 .07	.05 .05 .05 .04	.02 .02 .02 .02 .02	.43 .49 .51 .59	52 36 e25 e12 e7.2	.52 .46 .50 .47	1.9 1.9 1.9 2.6 2.6	1.9 1.8 1.8 1.8
16 17 18 19 20	.19 .21 .21 .20	.14 .15 .13 .10	.08 .08 .07 .07	.04 .04 .04 .04	.08 .09 .09 .08	.04 .03 .03 .03	.02 .02 .02 .02 .02	.72 .74 .79 1.5 2.2	e6.3 e5.5 e4.7 e4.1 e3.5	.46 .47 .48 .50	2.6 2.6 2.5 2.5 2.5	1.7 1.6 1.6 1.6
21 22 23 24 25	.17 .17 .16 .15	.13 .08 .07 .07	.08 .08 .07 .07	.04 .04 .05 .05	.07 .08 .08 .08	.03 .03 .02 .02	.02 .02 .02 .02 .02	2.4 2.4 2.4 2.6 2.7	e3.1 e2.7 e2.5 e2.2 e2.0	.51 .48 .46 .45	2.5 2.4 2.4 2.4 2.4	1.6 1.5 1.4 1.4
26 27 28 29 30 31	.12 .12 .12 .11 .10	.10 .10 .11 .11 .09	.08 .08 .06 .06	.04 .04 .04 .04 .04	.08 .09 .08 	.02 .02 .02 .03 .03	.01 .01 .05 .07	2.3 2.3 2.3 2.3 2.2 2.3	e1.8 e1.6 e1.4 e1.3 e1.1	.44 .43 .41 .41 .42	2.4 2.3 2.3 2.3 2.3 2.3	1.4 1.3 1.3 1.2
TOTAL MEAN MAX MIN AC-FT	4.54 .15 .21 .10 9.0	3.34 .11 .15 .07 6.6	2.34 .075 .10 .06 4.6	1.40 .045 .06 .04 2.8	1.85 .066 .09 .04 3.7	1.37 .044 .08 .02 2.7	0.71 .024 .07 .01	36.14 1.17 2.7 .06 72	288.2 9.61 52 1.1 572	16.72 .54 1.0 .41 33	60.04 1.94 2.6 .42 119	52.3 1.74 2.3 1.2 104
				R WATER YE								
MEAN MAX (WY) MIN (WY)	.31 1.64 1983 .010 1992	.30 1.57 1983 .010 1992	.25 1.47 1983 .010 1992	.23 1.49 1983 .010 1979	.23 1.54 1983 .010 1979	.23 1.36 1983 .015 1992	.19 .92 1983 .015 1979	1.12 8.37 1995 .011 1979	2.56 20.3 1995 .010 1978	1.20 9.78 1995 .010 1991	.82 4.43 1995 .010 1991	.64 3.03 1995 .010 1991
SUMMARY	STATISTI	CS	FOR 1	.996 CALENI	DAR YEAR	F	OR 1997 WA	ATER YEAR		WATER Y	EARS 1978	- 1997
LOWEST		AN		73.81	May 25		468.95 1.28 52			.6; 3.9 .0; 70	3 24	1995 1979 31 1995
ANNUAL INSTANT. INSTANT. ANNUAL I 10 PERC. 50 PERC.	DAILY MEA SEVEN-DAY ANEOUS PE. ANEOUS PE. RUNOFF (A ENT EXCEE ENT EXCEE	MINIMUM AK FLOW AK STAGE C-FT) DS DS			Dec 14 Dec 25		.02 c ₇₇	2 Apr 21 Jun 10 Jun 10		.0 d ₈₃ 6.2 496 1.6 .1	1 May 3 May 3 9 May 3	17 1989 31 1978 30 1995 30 1995

e-Estimated.

a-Also occurred Dec 28-31. b-Also occurred Apr 25-27. c-From rating curve extended above 31 ft³/s. d-From rating curve extended above 62 ft³/s.

07099350 PUEBLO RESERVOIR NEAR PUEBLO, CO

LOCATION.--Lat 38°16'15", long 104°43'30", in NE¹/4 sec.36, T.20 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, at dam on Arkansas River, 7 mi west of Pueblo.

DRAINAGE AREA.--4,669 mi².

RESERVOIR ELEVATIONS AND CONTENTS RECORDS

PERIOD OF RECORD .-- January 1974 to current year.

GAGE.--Nonrecording gage. Datum of gage is 4,898.70 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 concrete and earthfill dam. Storage began Jan. 9, 1974; dam completed in August 1975. Capacity, 357,700 acre-ft at elevation 4,898.70 ft, crest of spillway. Dead storage, 3,730 acre-ft, below elevation 4,764.00 ft, invert of river outlet. Reservoir is terminal reservoir of the Fryingpan-Arkansas project and is used to provide flood control, municipal and industrial supplies, and to fulfill irrigation requirements in the Arkansas River valley. Figures given are total contents.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 295,480 acre-ft, Feb. 12, 1985, elevation, 4,886.94 ft; minimum since appreciable storage was attained, 22,680 acre-ft, Nov. 13, 1974, elevation, 4,790.50 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 280,930 acre-ft, Mar. 16, elevation, 4,885.56 ft; minimum contents, 198,560 acre-ft, Oct. 13, elevation, 4,866.55 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30. Oct. 31. Nov. 30. Dec. 31.	4,866.54 4,867.00 4,869.71 4,875.05	198,520 200,290 210,900 232,840	+1,770 +10,610 +21,940
CAL YR 1996	-	-	-42,500
Jan. 31. Feb. 28. Mar. 31. Apr. 30. May 31. June 30. July 31. Aug. 31. Sept. 30.	4,879.40 4,882.96 4,882,40 4,874.16 4,870.51 4,870.76 4,860.05 4,870.54 4,866.88	251,960 268,480 265,840 229,090 214,100 215,110 208,290 214,220 199,830	+19,120 +16,520 -2,640 -36,750 -14,990 +1,010 -6,820 +5,930 -14,390
WTR YR 1997	-	-	+1.310

REMARKS.--Samples and field measurements were collected at a number of transects located along the length of the reservoir.

381754104504000 PUEBLO RESERVOIR SITE 2B

 $LOCATION.--Lat~38^{o}17'54", long~104^{o}50'40", in~SW^{1}/4NW^{1}/4, sec. 24, T.20~S., R.67~W., Pueblo~County, Hydrologic~Unit~11020002, at approximate center of transect, approximately 1.1 mi downstream from Rush Creek, 1.1 mi upstream from Turkey Creek, and 7.8 mi upstream from Pueblo~Dam.$

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

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS- SOLVED (MG/L) (00300)
MAY 1997							
07	1145					1.2	
07	1146	0.0	515	8.5	15.5		7.0
07	1147	3.0	515	8.5	15.5		7.0
07	1148	6.0	517	8.4	14.5		6.9
07	1149	9.0	515	8.3	14.0		6.7
07	1150	12.0	512	8.2	13.5		6.7
07	1151	15.0	503	8.3	12.5		7.1
07	1152	18.0	501	8.3	12.0		7.4
07	1153	21.0	508	8.1	12.0		5.8
07	1154	22.0	511	8.0	12.0		5.3
JUN							
18	1215					0.9	
18	1216	0.0	264	8.5	21.0		7.8
18	1217	3.0	259	8.5	20.0		7.9
18	1218	6.0 9.0	209	8.4	16.5		7.8 7.8
18 18	1219 1220	12.0	205 199	8.3	16.5 16.0		7.8
18	1220	15.0	199	8.3	15.5		7.9
18	1221	18.0	194	8.3	15.0		7.8
18	1223	21.0	195	8.2	15.0		7.8
18	1224	23.0	196	8.2	15.0		7.7
AUG	1224	23.0	190	0.2	13.0		/./
19	1310					0.6	
19	1311	0.0	287	8.7	23.0		8.6
19	1312	3.0	288	8.7	22.5		8.9
19	1313	6.0	287	8.7	22.0		9.0
19	1314	9.0	287	8.7	21.5		9.2
19	1315	12.0	294	8.6	20.5		8.1
19	1316	15.0	314	8.3	19.0		7.8
19	1317	18.0	315	8.2	18.5		7.5
SEP							
23	1200					1.1	
23	1201	0.0	376	8.5	20.0		7.8
23	1202	3.0	375	8.5	20.0		7.8
23	1203	6.0	376	8.5	19.5		7.7
23	1204	9.0	387	8.4	19.5		7.6
23	1205	12.0	439	8.4	17.5		7.8
23	1206	15.0	490	8.2	15.5		7.8
23	1207	17.0	498	8.2	15.5		7.7

381725104494400 PUEBLO RESERVOIR SITE 3B

 $LOCATION.--Lat~38^o17'25", long~104^o49'44", in~SW^{1/4}SW^{1/4}, sec. 19, T. 20~S., R. 66~W., Pueblo~County, Hydrologic~Unit~11020002, at approximate center of transect, approximately~100~ft~downstream~from~Turkey~Creek, and~6.7~mi~upstream~from~Pueblo~Dam.$

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

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS- SOLVED (MG/L) (00300)
MAY 1997 07 07 07 07 07 07 07 07 07 07 07 07 07 07 07	1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131	0.0 3.0 6.0 9.0 12.0 15.0 21.0 24.0 27.0 30.0 31.0	513 513 513 505 499 494 494 503 506 516 520	8.7 8.7 8.5 8.4 8.4 8.3 8.2 8.1	15.0 15.0 14.5 13.5 12.5 12.0 11.5 11.0 10.5	2.7	9.1 9.2 8.8 8.2 8.0 7.7 7.1 6.8 6.2 6.0
18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18	1155 1156 1157 1158 1159 1200 1201 1202 1203 1204 1205 1206 1207	0.0 3.0 6.0 9.0 12.0 15.0 18.0 21.0 24.0 27.0 30.0 31.0	 333 328 305 290 289 231 233 209 203 197 196	8.8 8.8 8.7 8.6 8.5 8.5 8.4 8.4 8.3 8.3	23.0 21.0 20.0 19.5 19.0 18.5 16.5 16.5 16.5 15.5	1.4	8.6 8.7 8.3 8.0 7.6 7.7 7.6 7.7 7.6 7.7
19 19 19 19 19 19 19 19 19 19 19 19 19	1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155	 0.0 3.0 6.0 9.0 12.0 15.0 18.0 21.0 24.0 27.0 28.0	301 302 302 301 301 300 295 291 288 291 293	8.6 8.6 8.6 8.6 8.6 8.6 8.5 8.5	 22.5 22.5 22.0 22.0 22.0 22.0 22.0 22.0	1.8	8.3 8.2 8.2 8.2 8.1 8.0 7.8 7.5 7.0
23 23 23 23 23 23 23 23 23 23	1135 1136 1137 1138 1139 1140 1141 1142 1143	0.0 3.0 6.0 9.0 12.0 15.0 18.0 21.0	 361 361 361 363 364 368 425 500	 8.3 8.3 8.3 8.3 8.3 8.3 8.3	20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5	1.7 	7.0 6.9 6.9 6.8 6.8 6.8 7.0

381647104475300 PUEBLO RESERVOIR SITE 4B

 $LOCATION.--Lat~38^o16'47'', long~104^o47'53'', in~NW^1/4SE^1/4, sec. 29, T.20~S., R.66~W., Pueblo~County, Hydrologic~Unit~11020002, at approximate center of transect, approximately 1.3 mi upstream from Peck Creek, 2.2 mi downstream from Turkey Creek, and 4.5 mi upstream from Pueblo~Dam.$

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

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS- SOLVED (MG/L) (00300)
MAY 1997 07 07 07 07 07 07 07 07	1105 1106 1107 1108 1109 1110 1111 1112 1113	0.0 6.0 12.0 18.0 24.0 30.0 36.0 42.0	 498 491 487 490 491 488 487 484	 8.6 8.6 8.5 8.4 8.3 8.3	13.5 12.5 12.0 11.5 9.0 9.0 9.0	5.2 	 8.8 8.8 8.6 8.3 8.1 7.9 7.9
07 07 07 JUN 18 18	1114 1115 1116 1115 1116	48.0 54.0 58.0 0.0	486 487 488 333	8.3 8.3 8.3	9.0 8.5 8.5 21.5	2.4	7.9 7.7 7.7 8.1
18 18 18 18 18 18 18 18 18 18 18	1117 1118 1119 1120 1121 1122 1123 1124 1125	6.0 12.0 18.0 24.0 30.0 36.0 42.0 48.0 54.0	334 329 308 282 271 237 226 209 205 199	8.6 8.6 8.5 8.4 8.3 8.3 8.3 8.3	21.5 19.5 18.5 17.5 16.5 16.5 15.5 15.0	 	8.3 7.7 6.8 6.9 7.0 7.1 7.3 7.4 7.4
19	1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116	0.0 6.0 12.0 18.0 24.0 30.0 36.0 42.0 48.0 54.0	307 307 306 307 306 299 296 292 291	8.5 8.5 8.4 8.4 8.3 8.3 8.3 8.1 8.1	22.5 22.5 22.5 22.0 22.0 22.0 21.5 21.0 20.5 20.0	3.5	7.5 7.4 7.4 7.2 7.0 6.6 6.5 5.7 5.4
23 23 23 23 23 23 23 23 23	1100 1101 1102 1103 1104 1105 1106 1107 1108	0.0 6.0 12.0 18.0 24.0 30.0 36.0	 353 353 353 354 353 353 354 357	8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5	1.7 	6.2 6.2 6.2 6.2 6.2 6.2 6.1

381559104465500 PUEBLO RESERVOIR SITE 5C

 $LOCATION.--Lat~38^o15'59", long~104^o46'55", in SW^{1}/_4NE^{1}/_4, sec. 33, T.20~S., R.66~W., Pueblo County, Hydrologic Unit 11020002, at approximate center of transect, approximately 0.1 mi upstream from Peck Creek, 1.2 mi upstream from Rock Creek, and 3.2 mi upstream from Pueblo Dam. \\$

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

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS- SOLVED (MG/L) (00300)
0 /	1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1047 1048 1049	0.0 3.0 6.0 9.0 12.0 15.0 21.0 24.0 27.0 30.0 33.0 36.0 39.0 41.0	 486 486 486 486 485 487 488 487 488 487 488	8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.3	12.5 12.0 12.0 12.0 12.0 11.0 10.5 10.5 10.5	4.9	8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.2 8.2 8.2 8.1
JUN 18 1	1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110	0.0 3.0 6.0 9.0 12.0 15.0 18.0 21.0 24.0 27.0 30.0 33.0 36.0 39.0 42.0 45.0 48.0 51.0 59.0	338 336 339 340 345 340 284 271 267 294 256 257 247 236 233 219 211 209 210 210	 8.6 8.7 8.6 8.5 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2	21.5 20.5 20.5 20.0 19.5 19.0 17.5 17.5 17.5 17.0 16.5 16.5 15.5 15.5	2.4	8.2 8.3 8.4 8.3 7.8 7.4 6.9 6.9 6.9 6.7 6.9 7.1 7.1 7.1 7.2 7.2 7.2 7.1
19 19	1030 1031 1032 1033 1034 1035 1036 1037 1038 1040 1041 1042 1043 1044 1045 1047 1048 1049 1050	0.0 3.0 6.0 9.0 12.0 15.0 18.0 21.0 24.0 27.0 30.0 33.0 36.0 39.0 42.0 45.0 51.0 54.0	307 307 307 307 308 307 307 307 307 308 307 306 306 304 301 299 293 294 301	8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.3 8.3 8.3 8.1 8.1 8.1 8.0 8.0	22.5 22.5 22.5 22.5 22.5 22.5 22.0 22.0		7.5 7.5 7.5 7.4 7.4 7.2 7.2 6.9 6.3 6.0 5.5 5.0 5.0 4.9 5.4 5.2

381559104465500 PUEBLO RESERVOIR SITE 5C--Continued

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS- SOLVED (MG/L) (00300)
SEP 1997							
23	1040					1.8	
23	1041	0.0	353	8.1	20.5		5.9
23	1042	3.0	353	8.1	20.5		5.8
23	1043	6.0	353	8.1	20.5		5.8
23	1044	9.0	352	8.1	20.5		5.8
23	1045	12.0	352	8.1	20.5		5.8
23	1046	15.0	353	8.1	20.5		5.8
23	1047	18.0	353	8.1	20.5		5.8
23	1048	21.0	353	8.1	20.5		5.8
23	1049 1050	24.0 27.0	353 353	8.1 8.1	20.5 20.5		5.8 5.8
23 23	1050	30.0	353	8.1	20.5		5.8
23	1051	33.0	353	8.1	20.5		5.8
23	1052	36.0	353	8.1	20.5		5.8
23	1054	39.0	353	8.1	20.5		5.8
23	1055	42.0	353	8.1	20.5		5.8
23	1056	45.0	353	8.1	20.5		5.8
23	1057	48.0	353	8.1	20.5		5.8
23	1058	51.0	354	8.1	20.5		5.8
23	1059	54.0	355	8.1	20.5		5.8
23	1100	57.0	360	8.1	20.5		5.8
23	1101	60.0	401	8.1	19.5		5.6
23	1102	61.0	409	8.1	19.5		5.4

381548104453300 PUEBLO RESERVOIR SITE 6C

LOCATION.--Lat 38°15'48", long 104°45'33", in NE¹/4SE¹/4, sec.34, T.20 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, at approximate center of transect, approximately 0.2 mi downstream from Rock Creek, and 1.2 mi downstream from Peck Creek, and 2.0 mi upstream from Pueblo Dam.

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

	WITTER	QUALITY DI	iiii, wiiibi	C LEZ IIC OCT	OBER 1770	IO SEI TEM	DER 1997
DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS- SOLVED (MG/L) (00300)
MAY 1997 07	1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031	0.0 6.0 12.0 18.0 24.0 30.0 36.0 42.0 48.0 54.0 60.0 66.0 72.0 78.0 84.0 90.0 93.0	 486 486 484 484 485 485 485 486 487 487 487	8.4 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3	12.5 12.0 11.5 11.0 10.5 10.0 9.5 9.0 9.0 9.0 8.5 8.0		8.3 8.3 8.3 8.4 8.3 8.1 8.0 8.0 7.9 7.8 7.7 7.7
18	1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030	 0.0 6.0 12.0 18.0 24.0 30.0 36.0 42.0 48.0 54.0 60.0 66.0 72.0 78.0 84.0 90.0	359 359 358 356 362 352 268 219 224 221 216 226 226 226 226 226	8.6 8.6 8.6 8.4 8.3 8.3 8.3 8.2 8.2 8.2	20.5 20.0 20.0 19.0 18.0 17.5 16.5 16.5 15.5 15.5 15.5 15.5	3.0	8.0 8.1 8.2 7.7 7.0 6.8 6.9 7.2 7.1 7.1 7.1 7.0 6.8 6.5
19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19	1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015	 0.0 6.0 12.0 18.0 24.0 30.0 36.0 42.0 48.0 54.0 60.0 66.0 72.0 78.0 80.0	 308 308 307 307 307 307 309 304 295 304 295 300 305	8.4 8.4 8.4 8.4 8.2 8.0 7.9 7.9 7.9 7.9	22.5 22.5 22.5 22.5 22.5 22.5 22.0 21.5 21.0 20.5 20.5 20.0 20.0	4.0	7.4 7.4 7.3 7.3 6.8 5.7 4.4 4.5 4.1 3.7
23	1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030	 0.0 6.0 12.0 18.0 24.0 30.0 36.0 42.0 48.0 54.0 60.0 66.0 72.0 78.0 84.0	350 351 351 351 351 351 352 352 352 353 353 353 365 418 420	8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5	2.0	5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4

381602104435200 PUEBLO RESERVOIR SITE 7B

 $LOCATION.--Lat~38^o16'02", long~104^o43'52", in~SE^{1/4}NW^{1/4}, sec. 36, T. 20~S., R. 66~W., Pueblo~County, Hydrologic~Unit~11020002, at approximate center of transect, approximately~0.3~mi downstream from Boggs~Creek, and~0.4~mi upstream from Pueblo~Dam.$

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

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS- SOLVED (MG/L) (00300)
MAY 1997 07	0930 0931 0932 0933 0934 0935 0936 0937 0949 0941 0942 0944 0945 0947 0948 0949 0951 0952 0953 0955 0955 0955 0957 0958 0959 1000 1001 1002 1006 1007 1008 1009 1010	0.0 3.0 6.0 9.0 12.0 15.0 21.0 24.0 27.0 30.0 33.0 36.0 45.0 45.0 57.0 60.0 63.0 66.0 69.0 72.0 75.0 78.0 81.0 87.0 99.0 99.0 102 105 108 111 114	 486 485 485 485 485 485 484 484 482 482 482 482 481 482 482 482 482 483 483 483 483 483 483 483 483 484 484	8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	12.0 12.0 12.0 12.0 11.5 11.0 10.5 10.5 9.5 9.5 9.0 9.0 9.0 9.0 9.0 9.0 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	3.7	8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.1 8.0 8.0 8.0 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9

381602104435200 PUEBLO RESERVOIR SITE 7B--Continued

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS- SOLVED (MG/L) (00300)
JUN 1997 18 .	0930 0931 0932 0933 0934 0935 0936 0937 0941 0942 0943 0944 0945 0947 0945 0947 0948 0949 0955 0955 0955 0955 0955 0957 0958 0959 0959 0959 0959 0959 0959 0959	 0.0 3.0 6.0 9.0 12.0 15.0 18.0 24.0 27.0 30.0 33.0 36.0 45.0 45.0 45.0 60.0 63.0 66.0 69.0 72.0 75.0 81.0 84.0 87.0 99.0 99.0 102 108	 366 365 365 365 365 365 367 367 368 351 325 326 309 275 277 313 308 297 288 299 280 296 293 315 310 310 309 308 318 318 319 319 319 319 319 319 319 319 319 319	 8.5 8.5 8.5 8.5 8.5 8.5 8.2 8.2 8.2 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1		3.0	7.887.8777.7219544.66.333.3322221099875.521766.532221099875.52174.6
18	1011	120	477	7.9	10.5		4.6

ARKANSAS RIVER BASIN

07099350 PUEBLO RESERVOIR NEAR PUEBLO, CO--Continued WATER-QUALITY RECORDS

381602104435200 PUEBLO RESERVOIR SITE 7B--Continued

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS- SOLVED (MG/L) (00300)
AUG 1997 19	0920 0921 0922 0923 0924 0925 0926 0927 0928 0929 0931 0933 0934 0937 0938 0937 0941 0942 0944 0947 0944 0947 0949 0950 0955 0955 0958 0959	0.0 3.0 6.0 9.0 12.0 15.0 18.0 24.0 27.0 30.0 33.0 36.0 39.0 42.0 45.0 48.0 51.0 54.0 66.0 69.0 72.0 75.0 78.0 81.0 87.0 99.0	 308 308 307 307 307 308 308 308 308 309 311 312 309 309 311 312 314 315 312 311 315 312 311 311	 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.7 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7	22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0	3.7	
SEP 23	0910 0911 0912 0913 0914 0915 0917 0918 0919 0920 0921 0922 0923 0924 0925 0927 0928 0927 0929 0930 0931 0933 0934 0935 0937 0938 0939 0940 0941 0945 0944 0945 0948 0949	0.0 3.0 6.0 9.0 12.0 15.0 18.0 221.0 24.0 27.0 30.0 33.0 36.0 39.0 42.0 45.0 66.0 66.0 69.0 72.0 75.0 78.0 84.0 87.0 90.0 99.0	 351 350 350 350 350 350 350 350 349 349 349 349 349 349 349 349 349 349		20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5	2.0	5.1 5.1 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9

07099400 ARKANSAS RIVER ABOVE PUEBLO, CO

LOCATION.--Lat 38°16'18", long 104°43'03", in SE¹/4NE¹/4 sec.36, T.20 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, on left bank 200 ft downstream from northeast corner of Arkansas River bridge, 0.4 mi downstream from Pueblo Dam, and 7 mi west of Pueblo.

DRAINAGE AREA.--4,670 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Streamflow records, October 1965 to current year. Water-quality data available, October 1965 to September 1970, December 1985 to current year. Sediment data available October 1965 to September 1970. Statistical summary computed for 1975 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,740 ft above sea level, from topographic map. Prior to Mar. 23, 1967, at site 730 ft upstream at datum 1.23 ft higher. May 24, 1974 to Feb. 24, 1975, at site 1,500 ft downstream, at different datum. Since Feb. 25, 1975, at or within 50 ft of present location at present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, diversions upstream from station for irrigation of about 88,000 acres and return flow from irrigated areas. Flow completely regulated by Pueblo Reservoir (station 07099350) since Jan. 9, 1974.

DISCULDED CURIC FEET DED SECOND WATER VEAD OCTOBER 1000 TO SERVE MED 1007

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

			DISC	HARGE, CUI	BIC FEET PER		WATER YEA Y MEAN VAL		ER 1996 TO S	SEPTEMBER	1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	162 163 163 151 146	464 445 444 445 410	82 83 83 82 82	83 83 85 85	313 314 281 216 172	261 261 278 289 200	1360 1350 1180 1100 1120	808 911 824 632 567	1800 2690 3620 e4100 e4310	2380 2210 2130 2080 1920	921 962 1010 1150 1370	573 578 579 541 726
6 7 8 9 10	146 146 146 146 147	363 305 286 369 430	83 83 83 83 82	85 85 86 86	107 88 88 86 86	184 218 253 253 328	1120 1150 1170 1110 1030	567 616 699 730 899	e4460 e3550 e4020 e4320 e1690	1580 1430 1400 1400 1400	1460 1550 1570 1320 1430	828 811 590 363 318
11 12 13 14 15	e88 e64 e64 e64	442 404 265 166 114	81 81 81 82 82	86 86 87 88	86 86 85 85 85	488 570 456 344 426	1010 968 928 924 924	954 1060 1220 1260 1310	e3790 e4710 e3550 3330 3800	1290 1260 1380 1360 1160	1660 1720 1630 1490 1260	318 317 318 317 340
16 17 18 19 20	64 64 64 64	115 116 100 92 93	82 82 82 82 81	88 88 88 88	84 83 83 83 135	565 766 765 775 806	941 986 1060 1120 1140	1380 1560 1710 1820 1860	4790 4960 5110 4710 5180	1060 1050 1130 1300 1290	1170 1170 1120 1000 881	358 392 390 391 388
21 22 23 24 25	71 101 174 280 364	95 95 96 98 98	81 82 82 82 82	88 231 316 317 317	224 259 260 260 260	818 945 940 903 964	1180 1210 1190 634 659	1910 1930 2060 2140 2150	5400 5600 5910 4960 4170	1490 1660 1680 1660 1570	758 568 486 398 345	386 452 615 717 762
26 27 28 29 30 31	390 389 448 476 478 477	98 87 81 82 82	83 83 83 83 83	317 316 315 312 313 313	260 260 260 	1040 1060 1190 1290 1280 1330	677 618 507 563 735	2150 2150 1900 1430 1170 1360	3630 3180 2870 2650 2490	1410 1190 1110 895 678 922	383 418 468 537 573 574	824 759 728 653 367
TOTAL MEAN MAX MIN AC-FT	5828 188 478 64 11560	6780 226 464 81 13450	2549 82.2 83 81 5060	4879 157 317 83 9680	4689 167 314 83 9300	20246 653 1330 184 40160	29664 989 1360 507 58840	41737 1346 2150 567 82790	119350 3978 5910 1690 236700	44475 1435 2380 678 88220	31352 1011 1720 345 62190	15699 523 828 317 31140
STATIST	CICS OF M	ONTHLY MEAN					BY WATER	YEAR (WY	•			
MEAN MAX (WY) MIN (WY)	365 1103 1985 121 1979	251 505 1985 77.0 1979	155 553 1987 58.8 1980	178 558 1985 55.6 1980	227 837 1985 55.9 1979	320 718 1985 81.1 1978	587 1389 1985 125 1978	1188 2564 1984 374 1978	2471 4219 1980 645 1977	1718 4110 1995 428 1977	1052 2716 1984 200 1977	467 1040 1982 118 1977
SUMMARY	STATIST	ICS	FOR :	1996 CALEI	NDAR YEAR	F	OR 1997 WA	TER YEAR		WATER Y	EARS 1975	- 1997
				271060 741			327248 897			a ₇₅₀ 1227 - 265		1984 1977
HIGHEST LOWEST ANNUAL	DAILY M	EAN AN Y MINIMUM		3710 ^C 64 64	Jun 11 Oct 12 Oct 12		5910 C64 64 6060	Jun 23 Oct 12 Oct 12 Jun 23		^D 5910 d ₄₇ f ₁₀₁₀₀	Jan Jan Aug	23 1997 10 1980 10 1980 1 1966
ANNUAL 10 PERC 50 PERC	ANEOUS P RUNOFF (ENT EXCE ENT EXCE	EDS EDS		537600 1990 445 83			7.29 649100 2070 477 83	Jun 23		99.40 543300 1910 395 88	0 Aug	1 1966

a-Average discharge for 8 years (water years 1966-73), 643 ft³/s; 465900 acre-ft/yr, prior to completion of Pueblo Dam. b-Also the maximum daily discharge for period of record. c-Also occurred Oct 13-20.

d-Minimum daily discharge for period of record, 28 ft³/s, May 11, 1967. f-Present site and datum, from rating curve extended above 1600 ft³/s, on basis of slope-area measurement of peak flow.

g-From floodmarks.

07099400 ARKANSAS RIVER ABOVE PUEBLO, CO--Continued WATER-QUALITY RECORDS

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 with satellite telemetry.

REMARKS.--Records for daily specific conductance are good. Records for daily water temperature are good. Daily data not published are either missing or of unacceptable quality. Specific conductance data may not be representative of the river at the site during periods of transient hydrologic conditions caused by abrupt flow changes from Pueblo Reservoir.

EXTREMES FOR PERIOD OF RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 814 microsiemens, Nov. 14, 1990; minimum, 223 microsiemens, July 13, 1986. WATER TEMPERATURE: Maximum, 23.1°C, Aug. 13, 15, 17, 1994; minimum, 1.1°C, Jan. 30, 1995.

EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 598 microsiemens, Dec. 27; minimum, 245 microsiemens, July 2. WATER TEMPERATURE: Maximum, 20.5°C, Sept. 22; minimum, 2.6°C, Jan. 17.

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

DAY	MAX	MIN	MEAN									
		OCTOBER		NO	OVEMBER		DE	ECEMBER			JANUARY	•
1 2	443	433	437	456	444	449	559	534	545	573	555	561
	444	438	442	465	455	459	552	530	541	575	553	559
3	442	437	440	468	460	464	554	535	542	569	553	560
4	447	434	440	467	452	461	559	536	545	568	549	558
5	444	429	439	476	462	468	561	539	549	569	547	554
6	450	436	443	493	470	482	568	546	552	567	549	556
7	454	444	448	479	450	461	566	541	553	572	547	555
8	454	437	447	489	459	469	577	548	559	560	544	551
9	449	428	440	465	443	453	581	550	564	567	549	555
10	444	430	439	458	449	454	580	554	564	560	548	554
11	524	431	481	466	456	459	579	552	564	564	545	553
12	531	484	499	476	465	470	594	554	570	568	544	555
13	506	475	485	505	468	488	584	557	566	581	549	562
14	493	466	477	568	485	503	578	560	566	581	546	559
15	497	462	474	521	507	513	583	556	564	586	550	561
16	488	460	469	521	507	513	587	559	570	575	548	560
17	470	448	460	512	498	505	577	560	566	583	545	559
18	477	452	464	535	494	514	568	556	561	584	544	555
19	480	461	466	545	505	520	570	557	562	577	543	555
20	471	456	465	541	505	522	572	559	565	575	548	559
21	486	461	469	533	502	514	585	563	569	571	541	553
22	470	435	456	538	509	522	577	558	568	554	501	520
23	455	427	439	537	516	527	572	557	565	511	501	504
24	449	426	441	541	514	526	592	557	567	514	506	509
25	460	438	452	545	518	532	586	560	571	521	509	513
26	458	427	440	541	516	524	590	558	568	520	505	511
27	452	443	448	555	516	537	598	560	571	517	508	511
28	452	434	441	547	529	537	580	559	566	516	507	510
29	441	431	437	546	528	536	574	556	565	518	507	510
30	442	437	440	546	531	539	566	554	560	514	504	508
31	447	440	443				575	555	561	509	502	505
MONTH	531	426	454	568	443	497	598	530	561	586	501	542

ARKANSAS RIVER BASIN

07099400 ARKANSAS RIVER ABOVE PUEBLO, CO--Continued

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

							@ 25 DEG. C					
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	1	FEBRUARY			MARCH			APRIL			MAY	
1	522 519	504 504	513 511	508 511	496 498	502 502	496 501	493 493	495 495	504 503	501 499	503 501
2 3	535	500	511	505	492	498	500	492	495	505	501	503
4 5	508 524	502 501	505 510	515 512	495 499	504 506	497 497	494 494	495 496	508 506	503 500	505 503
6	556	510	530	509	506	507	509	494	496	504	501	503
7	536	524	529	509	498	505	496	493	494	505	500	502
8 9	537 531	523 519	529 525	509 529	499 506	507 515	494 502	493 493	494 494	505 505	499 502	502 503
10	531	518	523	510	498	505	494	491	493	504	499	502
11 12	533 542	518 519	524 527	511 504	499 501	503 502	493 493	491 491	492 492	504 505	501 500	503 502
13	529	511	521	546	500	516	493	491	492	503	499	501
14 15	524 522	509 512	514 517	523 515	513 500	517 507	495 495	492 492	494 493	502 501	498 499	500 500
16	524	513	518	506	498	502	495	492	494	502	498	500
17	533	515	521	528	500 500	505	497 495	492 492	494 494	500 500	498	499 499
18 19	532 531	520 520	525 526	507 512	500	503 503	496	493	495	500	498 498	499
20	529	480	499	506	504	505	496	494	495	500	498	499
21 22	489 487	475 482	483 484	508 508	503 504	506 506	496 494	492 492	494 493	501 501	499 499	500 500
23	495	487	492	509	506	508	515	492	497	501	499	500
24 25	495 497	487 490	490 494	510 508	506 501	508 505	515 504	502 500	506 502	502 502	500 499	501 501
26	502	494	497	507	504	505	502	499	500	503	501	502
27 28	503 509	494 495	497 501	514 503	487 494	500 498	503 506	500 500	502 504	503 503	502 500	502 502
29				500	495	498	507	500	503	509	502	505
30 31				498 497	495 492	497 494	502 	500	501	506 505	503 500	505 503
MONTH	556	475	511	546	487	504	515	491	496	509	498	502
		JUNE			JULY		A	UGUST		2	SEPTEMBE:	R
1	502	499	500	274	252	264	278	272	275	310	305	307
2	500	499 491	497	259	252 245	255	278 278	272 274	277	310 310	305 307	307 308
2 3 4	500 499 491	499 491 489 470	497 493 482	259 273 265	252 245 250 257	255 260 260	278 278 280 281	272 274 275 275	277 278 278	310 310 311 313	305 307 307 310	307 308 309 311
2 3 4 5	500 499 491 475	499 491 489 470 449	497 493 482 464	259 273 265 266	252 245 250 257 259	255 260 260 263	278 278 280 281 280	272 274 275 275 275	277 278 278 279	310 310 311 313 321	305 307 307 310 308	307 308 309 311 311
2 3 4 5 6 7	500 499 491 475 481 455	499 491 489 470 449 421 418	497 493 482 464 450 443	259 273 265 266 273 274	252 245 250 257 259 261 259	255 260 260 263 266 267	278 278 280 281 280 300 285	272 274 275 275 275 277 277	277 278 278 279 285 281	310 310 311 313 321 317 319	305 307 307 310 308 311 316	307 308 309 311 311 315 315
2 3 4 5 6 7 8	500 499 491 475 481 455 450	499 491 489 470 449 421 418 414	497 493 482 464 450 443 433	259 273 265 266 273 274 269	252 245 250 257 259 261 259 260	255 260 260 263 266 267 264	278 278 280 281 280 300 285 287	272 274 275 275 275 277 276 282	277 278 278 279 285 281 285	310 310 311 313 321 317 319 335	305 307 307 310 308 311 316 318	307 308 309 311 311 315 317 324
2 3 4 5 6 7	500 499 491 475 481 455	499 491 489 470 449 421 418	497 493 482 464 450 443	259 273 265 266 273 274	252 245 250 257 259 261 259	255 260 260 263 266 267	278 278 280 281 280 300 285	272 274 275 275 275 277 277	277 278 278 279 285 281	310 310 311 313 321 317 319	305 307 307 310 308 311 316	307 308 309 311 311 315 315
2 3 4 5 6 7 8 9 10	500 499 491 475 481 455 450 440 519	499 491 489 470 449 421 418 414 417 412	497 493 482 464 450 443 433 427 470	259 273 265 266 273 274 269 265 264	252 245 250 257 259 261 259 260 258 259	255 260 260 263 266 267 264 262 262	278 278 280 281 280 300 285 287 293 292	272 274 275 275 275 277 276 282 283 282	277 278 278 279 285 281 285 289 287	310 310 311 313 321 317 319 335 341 343	305 307 307 310 308 311 316 318 323 325	307 308 309 311 311 315 317 324 331 333
2 3 4 5 6 7 8 9 10	500 499 491 475 481 455 450 440 519 421 385 375	499 491 489 470 449 421 418 414 417 412 357 336 333	497 493 482 464 450 443 433 427 470 389 361 359	259 273 265 266 273 274 269 265 264 268 265 263	252 245 250 257 259 261 259 260 258 259 258 259 258	255 260 260 263 266 267 264 262 262 263 263 266 261	278 278 280 281 280 300 285 287 293 292 286 280 279	272 274 275 275 275 277 276 282 283 282 267 265 270	277 278 278 279 285 281 285 289 287 278 273 274	310 311 313 321 317 319 335 341 343 342 343 348	305 307 307 310 308 311 316 318 323 325 335 332 337	307 308 309 311 311 315 317 324 331 333 339 337 341
2 3 4 5 6 7 8 9 10 11 12 13 14	500 499 491 475 481 455 450 440 519 421 385 375 376	499 491 489 470 449 421 418 414 417 412 357 336 333 354	497 493 482 464 450 443 427 470 389 361 359 360	259 273 265 266 273 274 269 265 264 268 265 263 264	252 245 250 257 259 261 259 260 258 259 258 259 258 258	255 260 260 263 266 267 264 262 262 262 263 262 261 262	278 278 280 281 280 300 285 287 293 292 286 280 279 280	272 274 275 275 275 277 276 282 283 282 267 265 270 263	277 278 278 279 285 281 285 289 287 278 273 274 271	310 311 313 321 317 319 335 341 343 342 343 342 343 346	305 307 307 310 308 311 316 318 323 325 335 332 337 337	307 308 309 311 311 315 317 324 331 333 339 337 341 342
2 3 4 5 6 7 8 9 10 11 12 13 14 15	500 499 491 475 481 455 450 440 519 421 385 375 376 368	499 491 489 470 449 421 418 414 417 412 357 336 333 354 339	497 493 482 464 450 443 433 427 470 389 361 359 360 350	259 273 265 266 273 274 269 265 264 268 265 263 264 269	252 245 250 257 259 261 259 260 258 259 258 259 258 258 258 258 261	255 260 260 263 266 267 264 262 262 263 262 261 262 265	278 278 280 281 280 300 285 287 293 292 286 280 279 280 290	272 274 275 275 275 275 277 276 282 283 282 267 265 270 263 257	277 278 278 279 285 281 285 289 287 278 273 274 271 278	310 311 313 321 317 319 335 341 343 342 343 348 346	305 307 307 310 308 311 316 318 323 325 335 335 337 337 337	307 308 309 311 311 315 317 324 331 333 339 337 341 342 340
2 3 4 5 6 7 8 9 10 11 12 13 14 15	500 499 491 475 481 455 450 440 519 421 385 375 376 368 353 350	499 491 489 470 449 421 418 414 417 412 357 336 333 354 339	497 493 482 464 450 443 433 427 470 389 361 359 360 350 342 338	259 273 265 266 273 274 269 265 264 268 265 263 264 269 272 265	252 245 250 257 259 261 259 260 258 259 258 259 258 258 258 258 261	255 260 260 263 266 267 264 262 262 263 262 261 262 265 264 263	278 278 280 281 280 300 285 287 293 292 286 280 279 280 290	272 274 275 275 275 275 277 276 282 283 282 267 265 270 263 257	277 278 278 279 285 281 285 289 287 278 273 274 271 278 281 283	310 310 311 313 321 317 319 335 341 343 342 343 348 346 346	305 307 307 310 308 311 316 318 323 325 335 332 337 337 336	307 308 309 311 311 315 317 324 331 333 339 337 341 342 340
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	500 499 491 475 481 455 450 440 519 421 385 375 376 368 353 350 336 337	499 491 489 470 449 421 418 414 417 412 357 336 333 354 339 317 311 321 301	497 493 482 464 450 443 433 427 470 389 361 359 360 350 342 338 330 320	259 273 265 266 273 274 269 265 264 268 265 263 264 269 272 265 266 263	252 245 250 257 259 261 259 260 258 259 258 259 258 261 262 261 262 261 256 257	255 260 260 263 266 267 264 262 262 263 261 262 265 264 263 261 260	278 278 280 281 280 300 285 287 293 292 286 280 279 280 290 285 287 293	272 274 275 275 275 277 276 282 283 282 267 265 270 263 257 276 278 277 276 277 277 276 277 277 277 277 277	277 278 278 279 285 281 285 289 287 278 273 274 271 278 281 283 285 292	310 311 313 321 317 319 335 341 343 344 346 346 346 346 346 346 348	305 307 307 310 308 311 316 318 323 325 335 337 337 336 341 342 343 345	307 308 309 311 311 315 317 324 331 333 339 337 341 342 340 343 344 345 347
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	500 499 491 475 481 455 450 440 519 421 385 375 376 368	499 491 489 470 449 421 418 414 417 412 357 336 333 354 339 317 311 321	497 493 482 464 450 443 433 427 470 389 361 359 360 350 342 338 330	259 273 265 266 273 274 269 265 264 268 265 263 264 269 272 265 265	252 245 250 257 259 261 259 260 258 259 258 259 258 258 261	255 260 260 263 266 267 264 262 262 263 262 261 262 265 264 263 261	278 278 280 281 280 300 285 287 293 292 286 280 279 280 290 285 287 293	272 274 275 275 275 275 277 276 282 283 282 265 270 263 257 276 278 277	277 278 278 279 285 281 285 289 287 278 273 274 271 278 281 283 285	310 311 313 321 317 319 335 341 343 343 344 346 346 346 346	305 307 307 310 308 311 316 318 323 325 335 332 337 337 336 341 342 343	307 308 309 311 311 315 317 324 331 333 339 337 341 342 340
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	500 499 491 475 481 455 450 440 519 421 385 375 376 368 353 350 336 337 314	499 491 489 470 449 421 418 414 417 412 357 333 354 339 317 311 321 301 301	497 493 482 464 450 443 433 427 470 389 361 359 360 350 342 338 330 320 306 293	259 273 265 266 273 274 269 265 264 268 265 263 264 269 272 265 266 263 263	252 245 250 257 259 261 259 260 258 259 258 259 258 261 262 261 262 261 256 257 259	255 260 260 263 266 267 264 262 262 263 262 261 262 265 264 263 261 260 261	278 278 280 281 280 300 285 287 293 292 286 280 279 280 290 285 287 290 295 295 297	272 274 275 275 275 277 276 282 283 282 267 265 270 263 257 276 278 277 276 278 277 276 278 279 270 263 257	277 278 278 279 285 281 285 289 287 274 271 278 281 283 285 292 291	310 311 313 321 317 319 335 341 343 344 346 346 346 346 346 349 359	305 307 307 310 308 311 316 318 323 325 335 337 337 336 341 342 343 345 348	307 308 309 311 311 315 317 324 331 333 339 337 341 342 340 343 344 345 347 355
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	500 499 491 475 481 455 450 440 519 421 385 375 376 368 353 350 336 337 314	499 491 489 470 449 421 418 414 417 412 357 336 333 354 339 317 311 321 301 301 283 276 272	497 493 482 464 450 443 433 427 470 389 361 359 360 350 342 338 330 320 306 293 300 285	259 273 265 266 273 274 269 265 264 265 263 264 265 263 263 263 263 263 263	252 245 250 257 259 261 259 260 258 259 258 259 258 261 262 261 257 259 261 262 261 257 260 261 260 261	255 260 260 263 266 267 264 262 262 261 262 265 264 263 261 260 261 261 261 262 262	278 278 280 281 280 300 285 287 293 292 286 280 279 280 290 285 287 293 297 295	272 274 275 275 275 275 277 282 283 282 267 263 257 270 263 257 277 287 287 287 287	277 278 278 278 279 285 281 285 289 287 278 274 271 278 281 283 285 292 291 293 294	310 311 313 321 317 319 335 341 343 343 344 346 346 346 346 348 349 359	305 307 307 310 308 311 316 318 323 325 335 332 337 337 337 336 341 342 343 345 348	307 308 309 311 315 317 324 331 333 337 341 342 340 343 344 345 347 355
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	500 499 491 475 481 455 450 440 519 421 385 375 376 368 350 336 337 314 309 313	499 491 489 470 449 421 418 414 417 412 357 336 333 354 339 317 321 301 301 301 283 276	497 493 482 464 450 443 433 427 470 389 361 359 360 350 342 338 330 320 306	259 273 265 266 273 274 269 265 264 263 264 269 272 265 266 263 263 263	252 245 250 257 259 261 259 260 258 259 258 259 258 261 261 262 261 257 259 260	255 260 260 263 266 267 264 262 262 261 262 265 264 263 261 260 261 261 261 262	278 278 280 281 280 300 285 287 293 292 286 280 279 280 290 285 287 293 292	272 274 275 275 275 275 277 276 282 283 282 267 265 270 263 257 276 278 277 287 278 277 286	277 278 278 279 285 281 285 289 287 278 274 271 278 281 283 285 292 291	310 311 313 321 317 319 335 341 343 342 343 346 346 346 346 348 349 359	305 307 307 310 308 311 316 318 323 325 335 332 337 336 341 342 343 345 348	307 308 309 311 311 315 317 324 331 333 339 337 341 342 340 343 344 345 347 355
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	500 499 491 475 481 455 450 440 519 421 385 375 376 368 353 350 336 337 314	499 491 489 470 449 421 418 414 417 412 357 333 354 339 317 321 301 301 301 283 276 279	497 493 482 464 450 443 433 427 470 389 361 359 360 350 342 338 330 320 306 293 300 285 289	259 273 265 266 273 274 269 265 264 268 265 263 264 269 272 265 266 263 263 263 263 263 265	252 245 250 257 259 261 259 260 258 259 258 259 258 259 258 259 258 261 262 257 259 261 261 261 261	255 260 260 263 266 267 264 262 262 261 262 265 264 263 261 260 261 261 262 262 263	278 278 280 281 280 300 285 287 293 292 286 280 279 280 290 285 287 293 297 295 297 295	272 274 275 275 275 275 277 276 282 283 282 267 265 270 263 257 276 278 277 286 277 287 286	277 278 278 279 285 281 285 289 287 278 271 278 281 281 285 291 291 293 296 294 297	310 311 313 321 317 319 335 341 343 344 346 346 346 346 348 349 359 359 351 362 380	305 307 307 310 308 311 316 318 323 325 335 337 337 336 341 342 343 345 348	307 308 309 311 311 315 317 324 331 333 339 337 341 342 340 343 344 345 347 355
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	500 499 491 475 481 455 450 440 519 421 385 375 376 368 350 336 337 314 309 313 300 300 298 299 287	499 491 489 470 449 421 418 414 417 412 357 336 333 354 339 317 311 321 301 301 301 283 276 272 279 278	497 493 482 464 450 443 433 427 470 389 361 359 360 350 342 338 330 320 306 285 289 287	259 273 265 266 273 274 269 265 264 263 264 269 272 265 263 263 263 263 263 263 263 263 263 263	252 245 250 257 259 261 259 260 258 259 258 259 258 261 262 261 257 259 260 261 261 262 261 262 261 262 261 262 261 262 261 262 261 261	255 260 260 263 266 267 264 262 262 261 262 265 264 263 261 260 261 261 262 262 263 261 262 263 261 262 263 261 262 263 261 262 263 261 263 263 264 265 265 265 265 265 265 265 265 265 265	278 278 278 280 281 280 300 285 287 293 292 286 280 279 280 290 285 287 293 297 295 296 302 298 301 296 294 302	272 274 275 275 275 275 277 276 282 283 282 267 265 270 263 257 276 278 277 286 278 277 286 291 293 291 290	277 278 278 279 285 281 285 289 287 278 274 271 278 281 283 285 292 291 293 296 294 297 293 292	310 311 313 321 317 319 335 341 343 342 343 346 346 346 346 346 349 359 359 351 351 362 380	305 307 307 310 308 311 316 318 323 325 335 332 337 336 341 342 343 345 348 351 344 346 348 362	307 308 309 311 311 315 317 324 331 333 339 337 341 342 340 343 344 345 347 355
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	500 499 491 475 481 455 450 440 519 421 385 375 376 368 337 314 309 313 300 300 298 299 287 290	499 491 489 470 449 421 418 414 417 412 357 336 333 354 339 317 321 301 301 301 283 276 279 278 279 278 279 278 268 269	497 493 482 464 450 443 433 427 470 389 361 359 360 350 342 338 330 320 306 293 300 285 289 287 289 278 278 280	259 273 265 266 273 274 269 265 264 265 263 264 265 263 263 263 263 263 263 263 263 263 263	252 245 250 257 259 261 259 260 258 259 258 259 258 259 258 261 262 261 262 261 262 261 262 261 262 261 262 261 262 261 261	255 260 260 263 266 267 264 262 262 261 262 265 264 263 261 260 261 261 262 263 261 262 263 261 262 263 261 262 27 262 27 263 261 262 27 27 27 27 27 27 27 27 27 27 27 27 27	278 278 280 281 280 300 285 287 293 292 286 280 279 280 290 285 287 293 297 295 295 296 302 298 301 296 294 302 302 305	272 274 275 275 275 275 277 276 282 283 282 267 263 257 276 278 277 286 277 287 291 293 291 293 290 291 290 298 299	277 278 278 278 279 285 281 285 289 287 278 271 278 281 283 294 291 293 296 294 297 293 292 295 300 302	310 311 313 321 317 319 335 341 343 343 344 346 346 346 346 348 349 359 359 359 351 362 380 397 400 402 432	305 307 307 310 308 311 316 318 323 325 335 337 337 337 336 341 342 343 345 348 349 348 362 373 391 395 387	307 308 309 311 311 315 317 324 331 333 341 342 340 343 344 345 347 355 356 350 349 354 371 383 396 396 396 396 396 396
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	500 499 491 475 481 455 450 440 519 421 385 375 376 368 337 314 300 300 298 299 287 291	499 491 489 470 449 421 418 414 417 412 357 336 333 354 339 317 311 321 301 301 283 276 272 279 278 279 278	497 493 482 464 450 443 433 427 470 389 361 359 360 350 320 306 293 300 285 289 287 289 278	259 273 265 266 273 274 269 265 264 265 263 264 269 272 265 263 263 263 263 263 263 263 263 263 265 263	252 245 250 257 259 261 259 260 258 259 258 259 258 261 261 256 257 259 260 261 261 261 261 261 262 261 262 263 263 263 263 263	255 260 260 263 266 267 264 262 262 261 262 265 264 263 261 260 261 262 263 261 262 263 261 260 261	278 278 280 281 280 300 285 287 293 292 286 280 279 280 290 285 287 293 297 295 295 296 302 298 301 296	272 274 275 275 275 275 277 282 283 282 263 257 263 257 270 263 257 287 287 287 287 291 293 290 291 298	277 278 278 278 279 285 281 285 289 287 278 274 271 278 281 283 285 292 291 293 296 294 297 293 292 295 300	310 311 313 321 317 319 335 341 343 3443 3446 346 346 346 346 346 347 359 359 359 351 362 380	305 307 307 310 308 311 316 318 323 325 335 337 337 337 337 336 341 342 343 345 348 351 344 346 348 362	307 308 309 311 311 315 317 324 331 333 337 341 342 340 343 344 345 347 355 356 356 359 354 371
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	500 499 491 475 481 455 450 440 519 421 385 375 376 368 350 336 337 314 309 313 300 298 299 287 291 290 280	499 491 489 470 449 421 418 414 417 412 357 336 333 354 339 317 311 301 301 301 283 276 272 279 278 279 273 268 269 268	497 493 482 464 450 443 433 427 470 389 361 359 360 350 342 338 330 320 306 285 289 287 289 278 278 280 273	259 273 265 266 273 274 269 265 264 265 263 263 263 263 263 263 263 263 263 263	252 245 250 257 259 261 259 260 258 259 258 259 258 261 262 261 256 257 259 260 261 261 261 262 261 262 261 261 262 261 262 261 263 264 265 267 267 267 267 267 267 267 267 267 267	255 260 260 263 266 267 264 262 262 261 262 265 264 263 261 260 261 261 262 262 263 261 262 263 261 262 262 263 261 262 263 261 262 263 261 261 262 262 263 261 261 262 263 263 261 261 262 263 263 263 263 263 263 263 263 263	278 278 278 280 281 280 300 285 287 293 292 286 280 290 285 287 293 297 295 296 302 298 301 296 294 302 302 305 306	272 274 275 275 275 275 277 276 282 283 282 267 263 257 276 278 277 286 278 277 286 291 293 291 293 291 290 298 298 297 303	277 278 278 278 279 285 281 285 289 287 278 274 271 278 281 283 285 292 291 293 296 294 297 293 292 295 300 302 305	310 311 313 321 317 319 335 341 343 3443 346 346 346 346 346 349 359 359 354 351 362 380	305 307 307 310 308 311 316 318 323 325 335 337 336 341 342 343 345 348 351 344 346 348 362 373 391 395 397 403	307 308 309 311 311 315 317 324 331 333 339 337 341 342 340 343 344 345 347 355 356 350 349 371 383 396 396 396 396 396 396 396 401 411
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	500 499 491 475 481 455 450 440 519 421 385 375 376 368 353 350 336 337 314 309 313 300 298 299 287 291 290 280 	499 491 489 470 449 421 418 414 417 412 357 336 333 354 339 317 321 301 301 301 283 276 279 278 279 278 279 278 268 269 268 	497 493 482 464 450 443 433 427 470 389 361 359 360 350 342 338 330 320 306 293 300 285 289 287 289 278 278 280 273 	259 273 265 266 273 274 269 265 264 265 263 264 265 263 263 263 263 263 263 263 263 263 263	252 245 250 257 259 261 259 260 258 259 258 259 258 261 262 261 262 261 262 261 262 261 262 261 262 261 262 261 262 261 261	255 260 260 263 263 264 262 262 261 262 261 262 263 261 260 261 261 262 262 263 265 267 269 271 275 283 274	278 278 280 281 280 300 285 287 293 292 286 280 279 280 290 285 287 293 297 295 296 302 298 301 296 294 302 305 306 307	272 274 275 275 275 275 277 276 282 283 282 267 263 257 276 278 277 286 277 287 291 293 291 293 290 291 298 298 298 299 303 303	277 278 278 278 279 285 281 285 289 287 278 271 278 281 283 294 291 293 296 294 297 293 296 294 297 293 296 300 302 305 305	310 311 313 321 317 319 335 341 343 343 344 346 346 346 346 348 349 359 359 359 351 362 380 397 400 402 432 423 423	305 307 307 310 308 311 316 318 323 325 335 337 337 337 336 341 342 343 345 348 362 373 391 395 387 403 	307 308 309 311 311 315 317 324 331 333 339 341 342 340 343 344 345 347 355 356 359 354 371 383 396 396 396 396 396 396 396 316 411 411 411

07099400 ARKANSAS RIVER ABOVE PUEBLO, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		1	NOVEMBER			ECEMBER			JANUARY	
1 2 3 4 5	19.0 18.6 18.7 18.9	17.9 17.6 17.7 17.8 17.7	18.3 18.0 18.0 18.2 18.1	13.5 13.1 12.7 13.0 12.5	12.8 12.4 12.3 12.2 11.9	13.2 12.7 12.5 12.5 12.2	9.4 8.9 9.0 8.7 8.7	7.8 7.6 7.4 7.1 7.2	8.4 8.1 7.9 7.7	6.1 6.7 6.0 6.1 5.1	4.9 5.0 5.1 4.7 4.5	5.3 5.6 5.4 5.2 4.7
6 7 8 9 10	18.8 18.7 18.8 18.7 18.7	17.7 17.6 17.5 17.5	18.1 18.0 18.0 17.9	12.2 12.6 12.4 12.2 12.0	11.7 11.7 11.4 11.6 11.3	11.9 12.1 11.9 11.8 11.6	7.7 8.4 8.1 8.2 8.3	7.3 7.0 7.0 6.9 6.8	7.5 7.5 7.4 7.4 7.3	5.6 5.4 5.3 5.4 4.3	4.0 3.9 4.1 3.9 3.7	4.6 4.4 4.4 4.4
11 12 13 14 15	19.2 19.2 19.3 19.1 19.3	17.4 17.1 17.1 17.1 16.8	18.0 17.8 17.9 17.7	11.5 11.1 11.1 10.4 10.0	10.7 10.6 10.0 9.9 9.7	11.2 10.8 10.5 10.1 9.8	8.4 8.4 8.1 7.9	7.0 6.8 6.8 6.4 6.3	7.5 7.3 7.2 6.9 6.7	4.3 4.4 4.1 4.3 4.7	3.2 3.1 3.2 3.1 2.9	3.7 3.5 3.5 3.5 3.6
17	19.2 18.3 18.4 17.9 17.8	16.6 16.1 15.8 15.9	17.4 17.0 16.7 16.5 16.2	9.9 10.4 10.9 11.2 11.0	9.4 9.4 9.5 9.8 9.7	9.7 9.8 10.1 10.2 10.1	7.3 6.7 6.3 6.0	5.7 5.4 4.9 4.9	6.3 5.8 5.4 5.3	4.0 4.4 4.3 4.8 4.7	2.8 2.6 3.0 3.3 3.2	3.2 3.3 3.6 3.8 3.7
21 22 23 24 25	16.5 16.8 16.3 15.9	15.2 14.7 15.2 14.9 14.5	15.6 15.6 15.6 15.4 14.8	10.7 10.3 9.7 10.2 10.2	9.6 9.4 9.2 9.1 9.0	9.9 9.7 9.5 9.4 9.3	6.0 6.2 5.5 6.4 6.0	5.2 5.3 4.8 4.7 4.6	5.5 5.6 5.2 5.2 5.3	4.5 3.7 3.8 3.7 3.7	3.1 2.9 3.1 3.1 3.1	3.6 3.2 3.4 3.3 3.3
26 27 28 29 30 31	15.5 14.8 14.8 14.5 14.4	14.5 14.4 14.4 14.0 13.8 13.3	14.9 14.6 14.5 14.2 14.0 13.6	9.6 9.7 9.9 9.8 9.2	8.8 8.6 8.3 8.3	9.0 8.9 8.9 8.8	5.6 6.2 6.2 6.2 5.8 6.4	4.4 4.7 4.3 4.8 4.8 4.9	4.8 5.3 5.2 5.3 5.3	3.7 3.3 3.6 3.6 3.8 4.0	3.1 3.0 2.9 3.0 3.0	3.3 3.2 3.1 3.2 3.3 3.6
MONTH	19.3	13.3	16.7	13.5	8.1		9.4		6.4	6.7	2.6	3.9
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	4.0 3.8 4.0 4.0	3.4 3.2 3.3 3.3	3.6 3.5 3.5 3.5 3.5	4.3 4.5 4.8 4.4 4.6	3.4 3.6 3.7 3.7 3.5	3.8 3.9 4.1 3.9 4.0	6.8 6.7 7.1 7.2 7.1	6.3 6.6 6.6 6.6	6.6 6.5 6.8 6.9	9.2 9.4 9.3 9.3	8.0 8.3 8.5 8.7	8.4 8.9 8.8 8.9 8.8
6 7 8 9 10	3.7 4.6 4.8 4.9 4.6	3.2 3.1 3.0 3.0 3.1	3.4 3.6 3.6 3.6 3.6	4.8 5.1 4.9 5.2 5.2	3.6 3.9 3.9 4.2 4.1	4.1 4.4 4.4 4.5 4.6	7.0 7.3 7.2 7.3 7.1	6.6 6.7 6.7 6.8 6.9	6.8 7.0 7.0 7.0 7.0	9.2 9.1 9.1 9.5 9.5	8.4 8.6 8.4 8.8	8.8 8.8 9.1 9.0
12	4.8 4.7 4.7 5.0 5.1	3.1 3.3 3.2 3.0 3.0	3.6 3.7 3.7 3.7 3.8	5.0 5.2 5.7 4.9 5.2	4.3 4.5 4.6 4.5 4.5	4.5 4.8 4.9 4.7 4.7	7.3 7.3 7.3 7.5 7.7	6.8 6.7 6.7 6.8 7.2	7.0 6.9 6.9 7.1 7.4	9.6 9.8 9.8 9.9	8.8 9.0 9.0 8.9 9.0	9.1 9.3 9.3 9.3 9.4
16 17 18 19 20	5.0 4.9 5.2 5.3 4.5	3.0 3.3 3.3 3.6 3.4	3.7 3.9 4.0 4.2 3.8	5.7 5.6 5.6 5.7	4.6 4.9 4.9 5.0 5.1	5.1 5.2 5.2 5.3 5.3	7.7 7.8 7.7 7.7 7.6	7.2 7.1 7.1 7.2 7.2	7.4 7.3 7.3 7.4 7.3	9.9 9.7 9.9 10.0 9.8	9.2 9.2 9.4 9.3 9.4	9.5 9.4 9.6 9.6 9.5
21 22 23 24 25	4.4 4.3 3.9 4.2 4.3	3.6 3.4 3.6 3.3	3.9 3.8 3.7 3.7	5.6 5.5 5.6 5.4 5.7	5.0 5.0 4.9 5.0 5.1	5.2 5.2 5.2 5.1 5.4	7.6 7.6 7.6 7.4 7.8	6.3 7.1 7.2 6.9 7.2	7.3 7.3 7.4 7.2 7.5	9.9 10.2 10.0 10.3 10.4	9.3 9.6 9.6 9.8 9.7	9.7 10.0 9.8 10.1 10.0
26 27 28 29 30 31	4.2 4.1 4.4 	3.4 3.3 3.4 	3.7 3.6 3.7 	5.9 7.5 6.5 6.7 6.8	5.4 5.4 6.1 6.0 6.2 6.3	5.6 6.3 6.3 6.4 6.5	8.1 8.3 8.3 8.5	7.6 7.4 7.5 7.5 7.7	7.8 7.7 7.8 7.9 8.1	11.0 10.9 11.0 10.7 11.1 11.2	9.7 9.9 10.2 10.3 10.4 10.4	10.5 10.4 10.7 10.5 10.7
MONTH	5.3	3.0	3.7	7.5	3.4	5.0	8.7	6.3	7.2	11.2	8.0	9.5

ARKANSAS RIVER BASIN

07099400 ARKANSAS RIVER ABOVE PUEBLO, CO--Continued

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

					- ,	(,						
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1 2 3 4 5	11.4 11.7 11.8 12.6 13.5	10.8 10.6 10.8 11.8 12.0	11.0 11.1 11.5 12.1 12.7	16.6 16.7 17.0 17.0	16.2 16.3 16.3 16.4 16.4	16.4 16.4 16.6 16.7 16.7	18.4 18.4 18.8 18.7	17.7 18.0 18.0 18.0	18.1 18.2 18.3 18.3	19.9 19.9 20.0 20.0	19.4 19.4 19.4 19.5 19.4	19.6 19.7 19.7 19.6 19.7
6 7 8 9 10	13.7 13.7 13.9 14.1 14.2	11.9 12.8 13.1 13.6 11.0	13.1 13.3 13.5 13.9 12.8	17.0 17.1 17.2 17.2	16.4 16.3 16.5 16.6 16.8	16.7 16.7 16.8 16.9 17.0	18.7 18.9 19.2 19.0	18.4 18.4 18.5 18.4 18.7	18.6 18.6 18.9 18.7 18.8	20.2 20.1 20.1 20.1 20.2	19.6 19.6 19.5 19.3	19.8 19.8 19.8 19.6 19.6
11 12 13 14 15	14.1 14.5 14.7 14.5 14.9	13.5 13.9 13.9 14.1 14.0	13.8 14.1 14.2 14.3 14.5	17.3 17.4 17.6 17.5	16.6 16.7 16.9 16.9	17.0 17.1 17.2 17.2	19.3 19.3 19.4 19.4	18.7 18.8 18.8 18.9 18.8	18.9 19.1 19.1 19.1 19.2	20.2 20.2 20.4 20.4 20.3	19.3 19.4 19.4 19.5 19.5	19.7 19.7 19.8 19.8
16 17 18 19 20	14.9 15.0 15.4 15.5	14.6 14.7 14.8 14.8	14.8 14.9 15.1 15.1	17.6 17.6 18.0 18.1 18.1	17.0 17.1 17.0 17.6 17.6	17.2 17.3 17.5 17.8 17.8	19.5 19.5 19.5 19.6 19.6	18.9 18.9 19.0 19.0	19.1 19.2 19.3 19.2 19.3	20.3 20.4 20.4 20.4 20.0	19.7 19.7 19.7 19.6 19.6	19.9 19.9 19.9 19.9
21 22 23 24 25	15.6 15.7 16.1 16.3 16.2	15.2 15.3 15.2 15.5 15.6	15.4 15.5 15.7 15.9	18.1 18.3 18.3 18.0 18.0	17.6 17.8 17.5 17.5	17.9 18.0 17.9 17.7	19.6 19.8 19.7 19.6 19.6	18.9 18.9 18.9 18.8	19.2 19.2 19.2 19.2 19.2	20.1 20.5 20.3 20.2 20.1	19.7 19.9 19.9 19.8 19.6	19.9 20.1 20.0 20.0 19.8
26 27 28 29 30 31	16.4 16.3 16.4 16.6	15.7 15.8 16.1 16.0 16.1	16.1 16.1 16.2 16.3 16.3	18.1 18.2 18.2 18.3 18.3	17.5 17.5 17.7 17.4 17.3 17.9	17.8 17.9 17.9 17.9 17.8 18.1	19.7 19.8 19.8 19.9 19.7	19.0 19.1 19.1 19.1 19.4 19.3	19.3 19.4 19.4 19.5 19.5	20.0 19.8 19.8 19.9 20.1	19.5 19.3 19.3 19.1 19.0	19.7 19.6 19.5 19.5
MONTH	16.6	10.6	14.4	18.5	16.2	17.3	19.9	17.7	19.0	20.5	19.0	19.8
YEAR	20.5	2.6	11.2									

07099969 ARKANSAS RIVER AT ST. CHARLES MESA DIVERSION AT PUEBLO, CO WATER-QUALITY RECORDS

LOCATION.--Lat 38°15'13", long 104°36'20", in SW¹/4NW¹/4 sec.6, T.21 S., R.64 W., Pueblo County, Hydrologic Unit 11020002, on right bank 10 ft upstream from intake of Saint Charles Mesa Water Association, 150 ft downstream from Santa Fe Avenue bridge, and 1.1 mi upstream from Fountain Creek.

DRAINAGE AREA.--4,778 mi².

PERIOD OF RECORD.--October 1988 to current year. Prior to October 1989, published as Arkansas River at Moffat Street at Pueblo (07099970).

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: October 1988 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Records good except for Dec. 8-10, which are poor. Daily data not published are either missing or of poor quality. Specific conductance data is not representative of the cross section at the site "and is more representative of flow entering diversion". Specific conductance data representative of the cross section at the site is published as Arkansas River at Moffat Street at Pueblo (07099970) since water year 1991.

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 1,980 microsiemens, Nov. 24, 1988; minimum, 225 microsiemens, Aug. 25, 1995.

EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 1,550 microsiemens, Oct. 17-18; minimum, 250 microsiemens, Aug. 5.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	4	NC	VEMBER		DE	CEMBER			JANUARY	
1	716	684	697	597	577	585	867	839	852			
2	712	689	701	602	587	592	860	841	854			
3	711	697	704	605	590	598	883	829	849			
4	735	700	717	607	588	598	904	818	864			
5	743	713	732	628	598	607	924	878	903			
6	754	717	740	641	608	622	920	826	857			
7	769	733	753	655	622	637	865	841	854			
8	775	728	751	643	612	628	854	840	847			
9	776	713	752	641	596	618	869	846	855			
10	786	726	758	604	587	597	886	875	878			
11	916	718	761	613	591	600	882	844	869			
12	976	862	921	624	601	611	874	816	849			
13	1240	930	1030	700	612	638	863	811	845			
14	1250	1010	1210	741	673	693	863	830	854			
15	1350	1250	1330	778	741	767	860	824	844			
16	1470	1350	1410	768	738	755	867	821	847			
17	1550	1450	1490	757	737	746	866	796	836			
18	1550	850	1160	758	727	744	899	795	852			
19	1090	982	1030	779	723	746						
20	1110	1030	1080	825	779	803						
21	1120	945	1020	845	793	819						
22	955	791	891	851	826	839						
23	803	647	749	853	737	814						
24	659	603	636	805	774	794						
25	648	603	622	817	780	799				627	616	621
26	647	570	604	835	789	813				629	612	623
27	605	553	586	853	791	818				628	611	619
28	599	569	587	874	834	856				635	610	619
29	650	567	594	870	842	857				631	617	623
30	596	571	582	861	823	844				630	616	626
31	596	580	587							643	626	634
MONTH	1550	553	845	874	577	715						

07099969 ARKANSAS RIVER AT ST. CHARLES MESA DIVERSION AT PUEBLO, CO--Continued

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

		SPI	ECIFIC CONI	DUCTANCE,	(MICKOSI	EMENS/CM	@ 25 DEG. C), WATEK	. I LAK OCT	JDEK 1990 I	O SEI TEN	IDLK 1777
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		reddii adv			MADCII			ADDII			MAY	
		FEBRUARY			MARCH			APRIL			MAY	
1	637	620	628	627	611	619	506	502	504	596	570	585
2	631	618	625	630	606	618	506	501	503	583	538	564
3	644	619	627	642	610	623	533	499	515	618	547	573
4 5	666 689	644 649	659 662	635 655	592 615	603 632	531 532	514 513	522 520	618 621	584 597	599 614
5	009	049	002	055	013	032	332	313	520	021	391	014
6	749	689	711	653	629	640	527	519	522	617	596	609
7	759	733	750	648	623	636	522	508	517	620	598	611
8	795	721	751	636	607	622	523	515	519	612	583	599
9	812	735	772	638	612	625	531	511	520	603	590	597
10	800	720	767	637	585	616	539	526	533	601	554	577
11	787	726	753	595	574	587	552	529	537	572	555	562
12	779	741	758	583	563	572	549	530	538	571	540	557
13	772	742	759	603	559	578	549	532	540	544	524	537
14 15	780 773	718 746	755 763	606 598	589 574	596 589	549 549	532 533	541 543	543 538	527 526	535 533
15	113	740	763	396	5/4	369	349	555	343	336	520	333
16	776	733	759	586	557	573	555	534	544	536	524	531
17	778	751	767	571	544	561	545	526	538	531	516	525
18	795	744	770	559	531	544	541	523	533	526	517	523
19 20	795 786	753 682	776 745	557 550	537 536	546 542	534 528	514 516	525 523	526 525	520 520	523 522
20	700	002	743	330	330	312	320	310	323	323	320	222
21	682	623	647	552	536	545	528	460	517	528	520	524
22	627	612	619	548	530	538	520	510	516	527	522	525
23	649	621	628	545	538	540	526	513	519	546	520	526
24 25	711 636	613 615	637 625	559 552	537 523	543 537	602 639	365 556	484 614	528 530	522 520	525 525
23	030	013	023	332	323	337	035	330	014	330	320	323
26	632	613	624	530	519	524	632	603	620	532	522	527
27	631	618	625	529	509	522	637	613	624	535	526	530
28	629 	608 	624	521	503	512	639	610	628	543	526	533
29 30				514 510	498 503	506 506	642 624	604 583	625 607	576 583	534 569	549 576
31				509	499	504				582	541	560
MONTH	812	608	700	655	498	571	642	365	543	621	516	554
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX		MEAN	MAX		MEAN			MEAN			
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN		MIN	MEAN		MIN SEPTEMBE	
1	543	JUNE 527	536	MAX 316		MEAN 304	447	AUGUST	389	499	SEPTEMBE 451	R 471
1 2	543 535	JUNE 527 509	536 522	316	JULY 290	304	447 385	AUGUST 374 371	389 379	499 480	SEPTEMBE 451 457	R 471 471
1 2 3	543 535 518	JUNE 527 509 502	536 522 511	316 	JULY 290 	304	447 385 386	374 371 371	389 379 379	499 480 484	SEPTEMBE 451 457 455	R 471 471 473
1 2 3 4	543 535 518 511	JUNE 527 509 502 490	536 522 511 498	316 378	JULY 290 289	304 301	447 385 386 386	374 371 371 328	389 379 379 367	499 480 484 483	451 457 455 463	471 471 473 473
1 2 3 4 5	543 535 518 511 493	JUNE 527 509 502 490 468	536 522 511 498 475	316 378 309	JULY 290 289 299	304 301 304	447 385 386 386 377	374 371 371 328 250	389 379 379 367 337	499 480 484 483 483	451 457 455 463 438	471 471 473 473 463
1 2 3 4 5	543 535 518 511 493	JUNE 527 509 502 490 468 449	536 522 511 498 475	316 378 309 330	JULY 290 289 299 302	304 301 304 314	447 385 386 386 377 415	374 371 371 371 328 250	389 379 379 367 337	499 480 484 483 483	451 457 455 463 438 433	471 471 473 473 463 441
1 2 3 4 5	543 535 518 511 493 487 483	JUNE 527 509 502 490 468 449 358	536 522 511 498 475 464 447	316 378 309 330 331	JULY 290 289 299 302 319	304 301 304 314 325	447 385 386 386 377 415 373	374 371 371 371 328 250 254 343	389 379 379 367 337 357	499 480 484 483 483 451 451	451 457 455 463 438 433 434	471 471 473 473 463 441 442
1 2 3 4 5	543 535 518 511 493 487 483 462	JUNE 527 509 502 490 468 449 358 431	536 522 511 498 475 464 447 448	316 378 309 330 331 340	JULY 290 289 299 302 319 321	304 301 304 314 325 328	447 385 386 386 377 415 373 354	374 371 371 328 250 254 343 344	389 379 379 367 337 357 354 348	499 480 484 483 483 451 451 491	451 457 455 463 438 433 434 442	471 471 473 473 463 441 442 461
1 2 3 4 5	543 535 518 511 493 487 483	JUNE 527 509 502 490 468 449 358	536 522 511 498 475 464 447	316 378 309 330 331	JULY 290 289 299 302 319	304 301 304 314 325	447 385 386 386 377 415 373	374 371 371 371 328 250 254 343	389 379 379 367 337 357	499 480 484 483 483 451 451	451 457 455 463 438 433 434	471 471 473 473 463 441 442
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1 2 3 4 5 6 7 8 9 10	543 535 518 511 493 487 483 462 451 729	JUNE 527 509 502 490 468 449 358 431 431 429	536 522 511 498 475 464 447 448 439 536	316 378 309 330 331 340 335 331	JULY 290 289 299 302 319 321 318 319 316	304 301 304 314 325 328 327 323 332	447 385 386 386 377 415 373 354 395 478	374 371 371 371 328 250 254 343 344 324 270	389 379 379 367 337 357 354 348 356 368	499 480 484 483 483 451 451 491 525 534	451 457 455 463 438 433 434 442 488 497	471 471 473 473 463 441 442 461 505 521
1 2 3 4 5 6 7 8 9 10	543 535 518 511 493 487 483 462 451 729	JUNE 527 509 502 490 468 449 358 431 431 429 373 327	536 522 511 498 475 464 447 448 439 536	316 378 309 330 331 340 335 331 346 348	JULY 290 289 299 302 319 321 318 319 316 324	304 301 304 314 325 328 327 323 332 336	447 385 386 386 377 415 373 354 395 478 417 387	374 371 371 328 250 254 343 344 324 270 264 331	389 379 379 367 337 357 354 348 356 368	499 480 484 483 483 451 451 491 525 534 541 537	451 457 455 463 438 433 434 442 488 497	471 471 473 473 463 441 442 461 505 521 523
1 2 3 4 5 6 7 8 9 10	543 535 518 511 493 487 483 462 451 729 737 381 384	JUNE 527 509 502 490 468 449 358 431 431 429 373 327 335	536 522 511 498 475 464 447 448 439 536 436 364	316 378 309 330 331 340 335 331 346 348 334	JULY 290 289 299 302 319 321 318 319 316 324 318	304 301 304 314 325 328 327 323 336 326	447 385 386 386 377 415 373 354 395 478 417 387 411	374 371 371 371 328 250 254 343 344 324 270 264 331 364	389 379 379 367 337 354 348 356 368 356 371 369	499 480 484 483 483 451 451 491 525 534 541 537 536	451 457 455 463 438 438 434 442 488 497 494 500 501	471 471 473 473 463 441 442 461 505 521 523 523 519
1 2 3 4 5 6 7 8 9 10	543 535 518 511 493 487 483 462 451 729	JUNE 527 509 502 490 468 449 358 431 431 429 373 327	536 522 511 498 475 464 447 448 439 536	316 378 309 330 331 340 335 331 346 348	JULY 290 289 299 302 319 321 318 319 316 324	304 301 304 314 325 328 327 323 332 336	447 385 386 386 377 415 373 354 395 478 417 387	374 371 371 328 250 254 343 344 324 270 264 331	389 379 379 367 337 357 354 348 356 368	499 480 484 483 483 451 451 491 525 534 541 537	451 457 455 463 438 433 434 442 488 497	471 471 473 473 463 441 442 461 505 521 523
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	543 535 518 511 493 487 483 462 451 729 737 381 384 388 384	JUNE 527 509 502 490 468 449 358 431 431 429 373 327 335 366 350	536 522 511 498 475 464 447 448 439 536 436 364 374 367	316 378 309 330 331 340 335 331 346 348 334 337 356	JULY 290 289 299 302 319 321 318 319 316 324 318 318 328	304 301 304 314 325 328 327 323 336 326 326 339	447 385 386 386 377 415 373 354 395 478 417 387 411 378 407	374 371 371 371 328 250 254 343 344 270 264 331 364 363 372	389 379 379 367 337 354 348 356 368 356 371 369 370 388	499 480 484 483 483 451 451 491 525 534 541 537 536 531 526	451 457 455 463 438 438 434 442 488 497 494 500 501 502 479	471 471 473 473 463 441 442 461 505 521 523 523 519 517 502
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	543 535 518 511 493 487 483 462 451 729 737 381 384 388 384	JUNE 527 509 502 490 468 449 358 431 429 373 327 335 366 350	536 522 511 498 475 464 447 448 439 536 436 364 374 367	316 378 309 330 331 340 335 331 346 348 337 356	JULY 290 289 299 302 319 321 318 319 316 324 318 318 318 328	304 301 304 314 325 328 327 323 332 336 326 326 339	447 385 386 386 377 415 373 354 395 478 417 387 411 378 407	374 371 371 328 250 254 343 344 270 264 331 364 363 372	389 379 379 367 337 354 354 356 368 356 371 369 370 388	499 480 484 483 483 451 451 451 525 534 541 537 536 531 526	451 457 455 463 438 433 434 442 488 497 494 500 501 502 479	471 471 473 473 463 441 442 461 505 521 523 523 517 502
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	543 535 518 511 493 487 483 462 451 729 737 381 384 388 384 366 359	JUNE 527 509 502 490 468 449 358 431 429 373 327 335 366 350 350 341	536 522 511 498 475 464 447 448 439 536 436 364 364 374 367	316 378 309 330 331 340 335 331 346 348 334 337 356	JULY 290 289 299 302 319 321 318 319 316 324 318 328 338 340	304 301 304 314 325 328 327 323 336 326 326 339 348 348	447 385 386 386 377 415 373 354 395 478 417 387 411 378 407	374 371 371 371 328 250 254 343 344 270 264 331 364 363 372	389 379 379 367 337 354 348 356 368 356 371 369 370 388	499 480 484 483 483 451 451 491 525 534 541 537 536 531 526	451 457 455 463 438 438 434 442 488 497 494 500 501 502 479	471 471 473 473 463 441 442 461 505 521 523 523 519 517 502
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	543 535 518 511 493 487 483 462 451 729 737 381 384 388 384 366 359 344	JUNE 527 509 502 490 468 449 358 431 429 373 327 335 366 350 350 341 331	536 522 511 498 475 464 447 448 439 536 4364 364 364 374 367 358 349 336	316 378 309 330 331 340 335 331 346 348 334 337 356	JULY 290 289 299 302 319 321 318 319 316 324 318 318 328 338 340 325	304 301 304 314 325 328 327 323 336 326 326 326 339 348 346 341	447 385 386 386 377 415 373 354 395 478 417 387 411 378 407	374 371 371 328 250 254 343 344 270 264 331 364 363 372	389 379 379 367 337 354 348 356 368 356 371 369 370 388 398 401	499 480 484 483 483 451 451 451 525 534 541 537 536 531 526	451 457 455 463 438 438 434 442 488 497 494 500 501 502 479 487 491 486	471 471 473 473 463 441 442 461 505 521 523 519 517 502 506 505 503
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	543 535 518 511 493 487 483 462 451 729 737 381 384 388 384 366 359	JUNE 527 509 502 490 468 449 358 431 429 373 327 335 366 350 350 341	536 522 511 498 475 464 447 448 439 536 436 364 364 374 367	316 378 309 330 331 340 335 331 346 348 334 337 356	JULY 290 289 299 302 319 321 318 319 316 324 318 328 338 340	304 301 304 314 325 328 327 323 336 326 326 339 348 348	447 385 386 386 377 415 373 354 395 478 417 387 411 378 407	374 371 371 371 328 250 254 343 344 270 264 331 364 363 372 393 394 397	389 379 379 367 337 354 348 356 368 356 371 369 370 388	499 480 484 483 483 451 451 491 525 534 541 537 536 531 526	451 457 455 463 438 438 434 442 488 497 494 500 501 502 479	471 471 473 473 463 441 442 461 505 521 523 523 519 517 502
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	543 535 518 511 493 487 483 462 451 729 737 381 384 388 384 366 359 344 340 332	JUNE 527 509 502 490 468 449 358 431 429 373 327 335 366 350 350 341 331 313 304	536 522 511 498 475 464 447 448 439 536 436 364 364 374 367 358 349 336 330 314	316 378 309 330 331 340 335 331 346 348 334 337 356 356 353 350 331	JULY 290 289 299 302 319 321 318 319 316 324 318 318 328 338 340 325 317 319	304 301 304 314 325 328 327 323 336 326 326 326 339 348 341 321 322	447 385 386 386 377 415 373 354 395 478 417 387 411 378 407 408 402 407 437 437	374 371 371 371 328 250 254 343 344 270 264 331 364 363 372 393 394 397 403 415	389 379 379 367 337 354 348 356 368 356 371 369 370 388 398 401 416 427	499 480 484 483 483 451 451 451 525 534 541 537 536 531 526 518 515 511 513 566	451 457 455 463 438 438 434 442 488 497 494 500 501 502 479 487 491 486 500 430	471 471 473 473 463 441 442 461 505 521 523 519 517 502 505 505 507
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	543 535 518 511 493 487 483 462 451 729 737 381 384 388 384 366 359 344 340 332 312 313 310 314	JUNE 527 509 502 490 468 449 358 431 429 373 327 335 366 350 341 311 313 304 289 299 287 295	536 522 511 498 475 464 447 448 439 536 436 364 364 374 367 358 349 330 314 299 307 295 301	316 378 309 330 331 340 335 331 346 348 337 356 356 353 357 357 37 37	JULY 290 289 299 302 319 321 318 319 316 324 318 328 338 340 325 317 319 302	304 301 304 314 325 328 327 323 332 336 326 326 326 327 321 322 336 326 326 326 326 327 328 327 327 328 327 328 327 327 327 327 327 327 327 327 327 327	447 385 386 386 377 415 373 354 395 478 417 387 411 378 407 408 402 407 437 437 437	374 371 371 328 250 254 343 344 270 264 331 364 363 372 393 394 403 415 447 469 471	389 379 367 337 354 354 356 368 356 371 369 370 388 398 401 416 427	499 480 484 483 483 451 451 451 525 534 541 537 536 531 526 518 515 513 566 519 530 502 487	451 457 455 463 438 438 434 442 488 497 494 500 501 502 479 487 491 486 500 430 445 445 471 472	471 471 473 473 463 441 442 461 505 521 523 523 519 517 502 506 503 506 507 501 507 488 480
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	543 535 518 511 493 487 483 462 451 729 737 381 384 388 384 366 359 344 340 332 312 313 310	JUNE 527 509 502 490 468 449 358 431 429 373 327 335 366 350 350 341 331 313 304 289 299 287	536 522 511 498 475 464 447 448 439 536 436 364 364 364 367 358 349 336 330 314 299 307 295	316 378 309 330 331 340 348 348 334 356 356 356 353 350 331 347	JULY 290 289 299 302 319 321 318 319 316 324 318 328 338 340 325 317 319 302	304 301 304 314 325 328 327 323 336 326 326 326 327 323 336 326 326 327 327 323	447 385 386 386 377 415 373 354 395 478 417 387 411 378 407 408 402 407 437 437	374 371 371 371 328 250 254 343 344 270 264 331 364 363 372 393 394 397 403 415	389 379 379 367 337 354 348 356 368 356 371 369 370 388 401 416 427 464 476	499 480 484 483 483 451 451 491 525 534 541 537 536 531 526 518 515 511 513 566	451 457 455 463 438 438 434 442 488 497 494 500 501 502 479 487 486 500 430	471 471 473 473 463 441 442 461 505 521 523 519 517 502 505 505 507 507 488
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	543 535 518 511 493 487 483 462 451 729 737 381 384 388 384 366 359 344 340 332 313 310 314 310	JUNE 527 509 502 490 468 449 358 431 429 373 327 335 366 350 350 351 311 311 313 304 289 299 287 295	536 522 511 498 475 464 447 448 439 536 4364 364 364 367 358 349 336 330 314 299 307 295 301 304	316 378 309 330 331 340 335 331 346 348 334 356 356 353 350 331 337 346 	JULY 290 289 299 302 319 321 318 319 316 324 318 328 338 340 325 317 319 302	304 301 304 314 325 328 327 323 336 326 326 326 327 323 336 326 327 323 336 326 327 327 328 327 327 328 327 328 327 327 327 327 327 327 327 327 327 327	447 385 386 386 377 415 373 354 395 478 417 387 411 378 407 408 402 407 437 437 437 437 437	AUGUST 374 371 371 371 328 250 254 343 344 270 264 331 364 363 372 393 394 397 403 397 403 415 447 469 471 495	389 379 379 367 337 354 348 356 368 356 371 369 370 388 401 416 427 464 476 485 511	499 480 484 483 483 451 451 491 525 534 541 537 536 531 526 518 515 511 513 566 519 530 502 487 500	451 457 455 463 438 438 433 434 442 488 497 494 500 501 502 479 487 491 486 500 430	471 471 473 473 463 441 442 461 505 521 523 519 517 502 506 505 507 507 488 480 488
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	543 535 518 511 493 487 483 462 451 729 737 381 384 388 384 366 359 344 340 332 312 313 310 314 310	JUNE 527 509 502 490 468 449 358 431 429 373 327 335 366 350 341 311 313 304 289 299 287 295 296 302	536 522 511 498 475 464 447 448 439 536 436 364 364 374 367 358 349 330 314 299 307 295 301 304 310	316 378 309 330 331 340 335 331 346 348 337 356 356 353 357 357 37 37 37	JULY 290 289 299 302 319 321 318 319 316 324 318 328 338 340 325 317 319 302 325	304 301 304 314 325 328 327 323 332 336 326 326 339 348 346 341 321 322 316 332	447 385 386 386 377 415 373 354 395 478 417 387 411 378 407 408 402 407 437 437 437 437 437 512 523 506	AUGUST 374 371 328 250 254 343 344 270 264 331 364 363 372 393 394 403 415 447 469 471 495	389 379 367 337 357 354 356 368 356 371 369 370 388 398 401 416 427 464 476 485 511	499 480 484 483 483 451 451 491 525 534 541 537 536 531 526 518 511 513 566 519 530 502 487 500	451 457 455 463 438 438 434 442 488 497 494 500 501 502 479 487 491 486 500 430 456 445 471 482	471 471 473 473 463 441 442 461 505 521 523 523 519 517 502 506 503 506 507 501 507 480 480 488
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	543 535 518 511 493 487 483 462 451 729 737 381 384 388 384 366 359 344 340 332 312 313 310 314 310	JUNE 527 509 502 490 468 449 358 431 429 373 327 3366 350 350 341 3313 304 289 299 287 295 296 302 299 300 303	536 522 511 498 475 464 447 448 439 536 436 364 364 367 358 349 330 314 299 307 295 301 304 310 305 306 311	316 378 309 330 331 340 335 331 346 348 337 356 356 353 331 337 346 348 347 357 356	JULY 290 289 299 302 319 321 318 319 316 324 318 328 338 340 325 317 319 302 325 341 350 334	304 301 304 314 325 328 327 323 336 326 326 339 348 346 341 321 322 316 322 350 360 378	447 385 386 386 377 415 373 354 395 478 417 387 411 378 407 408 402 407 437 437 437 437 512 523 506 518 497 586	374 371 328 250 254 343 324 270 264 331 364 363 372 393 394 403 415 447 469 471 495 478 469 478 469 448	389 379 367 337 357 354 356 368 356 371 369 370 388 398 401 416 427 464 476 485 511	499 480 484 483 483 451 451 451 525 534 541 537 536 531 526 518 515 511 513 566 519 530 502 487 500 502 516 519 528	451 457 455 463 438 438 434 442 488 497 494 500 501 502 479 487 491 486 500 430 456 445 471 472 482 471 411 509	471 471 473 473 463 441 442 461 505 521 523 517 502 506 507 507 508 507 509 480 488 480 488 486 505 515
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07099970 ARKANSAS RIVER AT MOFFAT STREET, AT PUEBLO, CO

LOCATION.--Lat 38°15'13", long 104°36'20", in SW1/4NW1/4 sec.6, T.21 S., R.64 W., Pueblo County, Hydrologic Unit 11020002, on right bank 10 ft upstream from intake of Saint Charles Mesa Water Association, 150 ft downstream from Santa Fe Avenue bridge, and 1.1 mi upstream from Fountain Creek.

DRAINAGE AREA.--4,778 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS: WDR CO-90-1: 1989(M).

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 4,653 ft above sea level, from topographic map.

REMARKS.--Records good except estimated daily discharge, July 2, which is poor. Records do not include diversion for municipal supply of Saint Charles Mesa Water Association. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions, and diversions for irrigation and municipal use. Flow almost completely regulated by Pueblo Reservoir.

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

			DISC	HARGE, CUBIC	FEET PER		WATER YEAR Y MEAN VALU		R 1996 TO SI	EPTEMBER 19	97	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	93 93 93 84 75	417 398 393 385 358	69 72 64 65 55	75 76 77 85 79	294 292 280 201 176	243 240 242 282 206	1350 1360 1190 1040 1080	778 866 808 608 503	1670 2660 3730 4270 4480	2360 e2180 2080 2020 1870	824 888 914 1040 1360	563 556 549 516 633
6 7 8 9 10	68 63 74 70 65	311 255 225 291 369	71 67 68 65 63	79 79 79 79 78	119 88 84 85 86	172 194 222 225 278	1080 1100 1130 1070 986	512 556 642 675 818	4610 3770 4230 4470 1990	1520 1290 1260 1250 1250	1550 1520 1560 1310 1500	781 750 583 369 301
11 12 13 14 15	59 27 19 9.8 9.2	384 363 239 144 83	64 68 71 71 72	78 79 79 79 79	86 86 87 83 77	418 520 455 320 380	971 939 893 872 860	908 985 1180 1230 1290	3520 4910 3940 3510 3830	1170 1120 1230 1230 1050	1880 1750 1650 1480 1230	296 295 302 297 301
16 17 18 19 20	8.6 8.2 24 19	90 92 98 106 82	72 76 77 77 75	81 81 80 79 80	79 76 74 76 103	515 676 723 710 750	876 910 968 1050 1080	1350 1570 1720 1840 1890	4890 5080 5280 4890 5280	918 913 964 1180 1190	1100 1100 1070 953 829	316 337 354 353 384
21 22 23 24 25	29 53 101 191 276	64 54 61 63 63	75 74 74 75 74	82 171 289 287 290	184 235 240 254 246	760 893 910 905 940	1120 1200 1180 738 649	1940 1990 2100 2230 2220	5560 5730 6030 5280 4350	1360 1560 1580 1520 1500	693 560 460 398 312	394 412 534 646 683
26 27 28 29 30 31	330 341 375 413 423 423	80 91 70 71 72	78 75 75 73 75 75	293 293 288 283 291 290	247 239 238 	1020 1030 1150 1300 1300 1330	660 615 498 504 683	2210 2210 1950 1410 1050 1220	3860 3330 2960 2710 2500	1330 1090 1030 882 592 836	357 385 426 504 567 585	798 721 683 634 358
TOTAL MEAN MAX MIN AC-FT	3933.8 127 423 8.2 7800	5772 192 417 54 11450	2205 71.1 78 55 4370	4438 143 293 75 8800	4415 158 294 74 8760	19309 623 1330 172 38300	28652 955 1360 498 56830	41259 1331 2230 503 81840	123320 4111 6030 1670 244600	41325 1333 2360 592 81970	30755 992 1880 312 61000	14699 490 798 295 29160
STATIS	TICS OF M	ONTHLY MEA	N DATA 1	FOR WATER Y	EARS 1989	- 1997	, BY WATER	YEAR (WY	7)			
MEAN MAX (WY) MIN (WY)	240 431 1996 125 1990	184 265 1991 87.9 1989	83.2 269 1995 16.1 1990	89.5 161 1991 16.7 1989	158 312 1996 64.2 1995	308 623 1997 159 1990	542 955 1997 217 1991	1145 1716 1996 491 1989	2419 4111 1997 970 1989	1684 4290 1995 957 1994	942 1616 1995 545 1990	361 699 1995 113 1996
SUMMAR	Y STATIST	CICS	FOR	1996 CALENI	DAR YEAR	1	FOR 1997 WA	TER YEAR	!	WATER YE	ARS 1989	- 1997
LOWEST HIGHES LOWEST ANNUAL INSTAN INSTAN ANNUAL 10 PER 50 PER	MEAN T ANNUAL ANNUAL M T DAILY M DAILY ME SEVEN-DA TANEOUS P	MEAN MEAN MAN MINIMUM MEAK FLOW MEAK FLOW MEAC MEAC MEAC MEAC MEAC MEAC MEAC MEAC		253669.8 693 3930 8.2 14 503200 1890 389 64	Jun 11 Oct 17 Oct 14		320082.8 877 6030 8.2 14 6230 12.70 634900 2040 423 72	Jun 23 Oct 17 Oct 14 Jun 23 Jun 23	! - -	681 1107 444 6030 3.6 8.2 a ₁₀₄₀₀ 14.18 493600 1750 322 47	Dec 1 Dec 1 Jun	1995 1990 23 1997 12 1989 11 1989 3 1994 3 1994

e-Estimated. a-From rating curve extended above 5200 $\mathrm{ft^3/s}$ on the basis of slope-conveyance and area-velocity studies.

07099970 ARKANSAS RIVER AT MOFFAT STREET, AT PUEBLO, CO--Continued WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: October 1988 to current year. WATER TEMPERATURE: October 1988 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Records for water temperature are good. Records for specific conductance are poor. Daily data not published are either during periods of estimated daily discharge, or are missing or unrepresentative of the river for the day. Specific conductance data computed by using discharge-related coefficients, the discharge record at the site, and the daily mean specific conductance from Arkansas River at St. Charles Mesa Diversion at Pueblo (07099969). Prior to October 1989, published specific conductance data was not representative of the cross section at the site.

EXTREMES FOR PERIOD OF RECORD .--

SPECIFIC CONDUCTANCE: Maximum daily mean, 1,490 microsiemens, Oct. 17, 1996; minimum daily mean, 252 microsiemens, June 29, 1993.

WATER TEMPERATURE: Maximum, 26.3°C, Aug. 31, 1990; minimum, 0.0°C, many days.

EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum daily mean, 1,490 microsiemens, Oct. 17, minimum daily mean, 283 microsiemens, July 5. WATER TEMPERATURE: Maximum, 24.4° C, Aug. 25; minimum, 0.0° C, Dec. 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	634	503	784		546	545	454	503	493	289		400
2	638 641	509 514	786 790		544 545	544 548	458 464	491 493	501 496		330 334	400 402
4	652	514 514	790 804		545 580	548 525	464 459	493 509	496		334	402
5	673	522	849		589	525 556	463	522	461	283		394
5	073	522	049		369	550	403	322	401	203		394
6	681	541	788		640	570	465	518	450	286		384
7	700	561	786		683	566	460	519		293	322	380
8	691	553	779		683	547	462	509	435	295	320	392
9	692	538	795		703	550	463	507	426	294		434
10	705	513	817		698	536	469	502		291		453
1.1		F16	000		605	F.0.F	452	405		200		455
11 12		516	808		685	505	473	495		299		455
	884	525	781		690	486	473	490		299		455
13		561	777		691	491	470	478	353	293		452
14		624	786		695	519	471	482	363	293	337	450
15	1330	706	776		702	507	472	480	356	298	349	437
16	1410	687	779		698	487	473	478	347	306	354	440
17	1490	679	769		706	477	473	483	339	304	354	439
18		677	784		708	468	469	481	326	300	357	433
19	999	679			714	470	462	486	320	289	366	435
20	1050	739			678	466	465	485	305	290	371	
21	969	762			576	469		487	290	288		431
22		789			545	468	464	494	298		394	
23		757			553	475	467	494	286		405	415
24	566	738				478		494	292		417	408
25	541	743		540	550	473	522	494	295		445	420
0.6	505	740		E 4 0	F 40	4.61	F07	405	201	200	404	400
26 27	525 504	748 744		542 539	549 550	461 459	527	495	301	299	424	423
							530	498	296	312	425	
28	505	788		539	549	456	534	496	294	317	416	444
29	511	788		542		455	531	500	299			438
30	501	776		545		455	522	507	293		395	484
31	505			552		454		504		335		
MEAN		643				499		496				
MAX		789				570		522				
MIN		503				454		478				

273 ARKANSAS RIVER BASIN

> 07099970 ARKANSAS RIVER AT MOFFAT STREET, AT PUEBLO, CO--Continued TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

				TEMPERATO	KE, WAII	zk (DLG. C),	WILLER TEA	IK OCTOB	EK 1990 IU	SEPTEMBER	1997	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		DE	CEMBER			JANUARY	
1	20.7	15.3	18.1	13.8	10.9	12.1	7.2	3.9	5.6			
2	18.4 18.6	14.6 13.8	16.5 16.3	13.5 13.3	10.0 10.1	11.6 11.5	6.1 6.1	4.2 2.6	5.2 4.4			
4	20.4	14.9	17.4 17.7	13.7 13.0	10.7	11.9 11.3	5.4	3.2	4.1			
		15.0					6.6	3.1				
6 7	20.5 19.6	15.2 14.9	17.6 17.1	11.7 10.7	9.4 8.1	10.5 9.4	5.9 6.6	4.5 3.5	5.3 5.0			
8 9	19.6 19.2	14.1 14.0	16.7 16.4	11.4 12.3	8.0 8.6	9.7 10.3	6.4 8.3	3.8 4.9	5.3 6.6			
10	19.1	13.8	16.3	12.5	9.0	10.5	8.5	6.0	7.2			
11	19.9	14.1	17.0	11.9	8.7	10.1	8.3	5.6	6.9			
12 13	20.5 18.0	14.1 13.8	17.1 16.4	11.3 11.7	8.7 8.2	9.8 9.8	7.6 7.4	4.6 4.7	6.2 6.1			
14 15	17.1 16.0	14.2 14.3	15.3 15.1	9.5 8.1	7.9 6.9	8.6 7.6	6.3 5.0	3.9 2.7	5.0 3.8			
16	15.4	13.9	14.6	8.3	6.2	7.6	4.8	2.1	3.4			
17	14.3	11.4	12.6	8.6	5.4	7.0	2.8	.1	1.4			
18 19	$14.9 \\ 14.1$	7.9 10.5	11.6 12.1	10.3 11.5	6.3 8.1	8.4 9.9	1.2	. 0	.5 			
20	13.1	10.6	11.8	11.6	8.4	10.0						
21	10.7	8.5	9.5	9.7	7.6	8.6						
22 23	12.6 13.8	6.5 9.6	9.3 11.9	8.9 8.2	7.0 6.3	8.0 7.2						
24 25	15.8 15.2	10.9 11.7	13.4 13.2	8.6 9.0	5.8 5.8	7.0 7.1				4.4 4.2	.9	2.5
26	14.1	10.3	12.3	6.9	5.2	6.1				4.9	1.9	3.3
27	12.8	10.6	11.6	6.9	4.5	5.5				3.9	1.8	2.6
28 29	15.2 13.3	11.3 10.4	12.9 12.1	7.2 8.5	3.5 5.7	5.6 7.0				5.0 4.7	1.0 2.9	2.9 3.7
30 31	14.6 11.8	11.1 10.9	12.6 11.4	7.6 	5.3	6.4				5.9 7.2	1.6 3.6	3.6 5.3
MONTH	20.7	6.5	14.3	13.8	3.5	8.9						
11011111	20.7	0.5	11.5	13.0	3.3	0.5						
		FEBRUARY			MARCH			APRIL			MAY	
-						4 0	0.4		7.0	11 0		0.0
1 2	6.4 5.9	3.7 2.7	5.0 4.4	6.9 7.9	1.9 1.7	4.2 4.7	8.4 6.4	6.0 5.7	7.0 6.1	$11.2 \\ 12.4$	7.4 7.5	8.9 9.4
3 4	6.1 5.5	2.4	4.1 3.8	7.8 5.7	2.6 2.1	5.1 3.9	9.8 9.4	6.0 6.2	7.4 7.4	13.4 14.0	7.5 7.9	9.8 10.4
5	4.6	1.7	3.4	7.1	1.4	4.2	7.6	5.7	6.7	14.5	8.3	10.8
6 7	3.7 5.5	2.3	3.0	8.3	1.9	5.3 5.9	8.6	5.3 5.5	6.7 7.2	13.6 12.5	8.1	10.5
8	5.4	2.0 1.3	3.4 3.4	8.6 8.7	2.8						8.3	10.1 9.2
9 10	6.1 4.7	1.7				5.7	10.0 8.1	5.9	6.7	10.8	8.1	
11		1.9	3.9 3.6	8.5 9.4	3.3	5.7 5.9 6.2					8.1 8.7 8.3	10.8 10.4
12		1.9	3.6	8.5 9.4	3.3	5.9 6.2	8.1 10.1 6.6	5.9 5.8 5.5	6.7 7.5 6.1	10.8 14.2 13.3	8.7 8.3	10.8 10.4
	4.9 5.6	1.9 1.1 2.3	3.6 3.0 4.0	8.5 9.4 8.9 8.9	3.3 3.1 3.2 3.6	5.9 6.2 5.6 5.8	8.1 10.1 6.6 8.6 9.5	5.9 5.8 5.5 5.2 5.0	6.7 7.5 6.1 6.4 6.8	10.8 14.2 13.3 13.2 13.1	8.7 8.3 8.4 8.6	10.8 10.4 10.2 10.3
13 14	4.9 5.6 5.7 6.0	1.9 1.1 2.3 2.6 1.4	3.6 3.0 4.0 4.0 3.8	8.5 9.4 8.9 8.9 8.6 5.0	3.3 3.1 3.2 3.6 3.8 2.9	5.9 6.2 5.6 5.8 5.8 3.9	8.1 10.1 6.6 8.6 9.5 10.3 9.9	5.9 5.8 5.5 5.2 5.0 5.3 5.5	6.7 7.5 6.1 6.4 6.8 7.2 7.4	10.8 14.2 13.3 13.2 13.1 12.4 12.2	8.7 8.3 8.4 8.6 8.7 8.8	10.8 10.4 10.2 10.3 10.2 10.1
13	4.9 5.6 5.7	1.9 1.1 2.3 2.6	3.6 3.0 4.0 4.0	8.5 9.4 8.9 8.9 8.6	3.3 3.1 3.2 3.6 3.8	5.9 6.2 5.6 5.8 5.8	8.1 10.1 6.6 8.6 9.5 10.3	5.9 5.8 5.5 5.2 5.0 5.3	6.7 7.5 6.1 6.4 6.8 7.2	10.8 14.2 13.3 13.2 13.1 12.4	8.7 8.3 8.4 8.6 8.7	10.8 10.4 10.2 10.3 10.2
13 14 15	4.9 5.6 5.7 6.0 7.4	1.9 1.1 2.3 2.6 1.4 2.3	3.6 3.0 4.0 4.0 3.8 4.7	8.5 9.4 8.9 8.9 8.6 5.0 7.6	3.3 3.1 3.2 3.6 3.8 2.9 2.2	5.9 6.2 5.6 5.8 5.8 3.9 4.5	8.1 10.1 6.6 8.6 9.5 10.3 9.9 11.2	5.9 5.8 5.5 5.2 5.0 5.3 5.5 6.3	6.7 7.5 6.1 6.4 6.8 7.2 7.4 8.1	10.8 14.2 13.3 13.2 13.1 12.4 12.2 13.2	8.7 8.3 8.4 8.6 8.7 8.8 8.7	10.8 10.4 10.2 10.3 10.2 10.1 10.5
13 14 15 16 17 18	4.9 5.6 5.7 6.0 7.4 7.7 7.9 8.5	1.9 1.1 2.3 2.6 1.4 2.3 2.6 3.8	3.6 3.0 4.0 4.0 3.8 4.7 5.3 6.0 6.3	8.5 9.4 8.9 8.6 5.0 7.6 9.1 8.1 8.9	3.3 3.1 3.2 3.6 3.8 2.9 2.2 3.0 4.5 4.3	5.9 6.2 5.6 5.8 5.8 3.5 5.6 6.1	8.1 10.1 6.6 8.6 9.5 10.3 9.9 11.2 11.4 11.5 11.0	5.9 5.8 5.5 5.2 5.0 5.3 5.5 6.3 7.1 6.6	6.7 7.5 6.1 6.4 6.8 7.2 7.4 8.1 8.5 8.4	10.8 14.2 13.3 13.2 13.1 12.4 12.2 13.2 13.2	8.7 8.3 8.4 8.6 8.7 8.8 8.7 9.0 8.9 9.1	10.8 10.4 10.2 10.3 10.2 10.1 10.5
13 14 15 16 17	4.9 5.6 5.7 6.0 7.4 7.7 7.9	1.9 1.1 2.3 2.6 1.4 2.3 2.6 3.8	3.6 3.0 4.0 4.0 3.8 4.7 5.3 6.0	8.5 9.4 8.9 8.6 5.0 7.6 9.1 8.1	3.3 3.1 3.2 3.6 3.8 2.9 2.2 3.0 4.5	5.9 6.2 5.8 5.8 3.9 4.5 5.6	8.1 10.1 6.6 8.6 9.5 10.3 9.9 11.2	5.9 5.8 5.5 5.2 5.0 5.3 5.5 6.3	6.7 7.5 6.1 6.4 6.8 7.2 7.4 8.1 8.5	10.8 14.2 13.3 13.2 13.1 12.4 12.2 13.2	8.7 8.3 8.4 8.6 8.7 8.8 8.7 9.0	10.8 10.4 10.2 10.3 10.2 10.1 10.5
13 14 15 16 17 18 19	4.9 5.6 5.7 6.0 7.4 7.7 7.9 8.5 8.9	1.9 1.1 2.3 2.6 1.4 2.3 2.6 3.8 3.8	3.6 3.0 4.0 4.0 3.8 4.7 5.3 6.0 6.3 6.8	8.5 9.4 8.9 8.6 5.0 7.6 9.1 8.1 8.9 9.2	3.3 3.1 3.2 3.6 3.8 2.9 2.2 3.0 4.5 4.3 3.9	5.9 6.2 5.6 5.8 5.8 3.9 4.5 5.6 5.6 6.1	8.1 10.1 6.6 8.6 9.5 10.3 9.9 11.2 11.4 11.5 11.0	5.9 5.8 5.5 5.2 5.0 5.3 5.5 6.3 7.1 6.6 6.8	6.7 7.5 6.1 6.4 6.8 7.2 7.4 8.1 8.5 8.4 8.3 8.5	10.8 14.2 13.3 13.2 13.1 12.4 12.2 13.2 13.2 13.2	8.7 8.3 8.4 8.6 8.7 8.8 8.7 9.0 8.9 9.1 9.1	10.8 10.4 10.2 10.3 10.2 10.1 10.5 10.5 10.3 10.0 9.7
13 14 15 16 17 18 19 20 21	4.9 5.6 5.7 6.0 7.4 7.7 7.9 8.5 8.9 7.1	1.9 1.1 2.3 2.6 1.4 2.3 2.6 3.8 3.8 5.0 3.8	3.6 3.0 4.0 4.0 3.8 4.7 5.3 6.0 6.3 6.8 5.6 4.4	8.5 9.4 8.9 8.6 5.0 7.6 9.1 8.1 8.9 9.2 9.4	3.3 3.1 3.2 3.6 3.8 2.9 2.2 3.0 4.5 4.3 3.9 4.4	5.9 6.2 5.6 5.8 5.8 3.9 4.5 5.6 5.9 6.1 6.3 6.3	8.1 10.1 6.6 8.6 9.5 10.3 9.9 11.2 11.4 11.5 11.0 11.4 11.0	5.9 5.8 5.5 5.2 5.0 5.3 5.5 6.3 7.1 6.8 6.8 6.8	6.7 7.5 6.1 6.4 6.8 7.2 7.4 8.1 8.5 8.4 8.3 8.5 8.4	10.8 14.2 13.3 13.2 13.1 12.4 12.2 13.2 13.2 11.8 10.7 12.1	8.7 8.3 8.4 8.6 8.7 8.8 8.7 9.0 8.9 9.1 9.0 9.2 9.6	10.8 10.4 10.2 10.3 10.2 10.1 10.5 10.5 10.3 10.0 9.7 10.0
13 14 15 16 17 18 19 20 21 22 23 24	4.9 5.7 6.0 7.4 7.7 8.9 7.1 5.7 6.1 4.4 5.4	1.9 1.1 2.3 2.6 1.4 2.3 2.6 3.8 5.0 3.8 5.0 3.8	3.6 3.0 4.0 4.0 3.8 4.7 5.3 6.8 5.6 4.4 4.0 2.9 3.3	8.5 9.4 8.9 8.6 5.0 7.6 9.1 8.9 9.2 9.4 9.1 8.6 8.2 6.5	3.3 3.1 3.2 3.6 3.8 2.9 2.2 3.0 4.5 4.3 3.9 4.4 4.3	5.9 6.2 5.6 5.8 5.8 3.9 4.5 5.6 6.1 6.3 6.0 5.7	8.1 10.1 6.6 8.6 9.5 10.3 9.9 11.2 11.4 11.5 11.0 11.4 11.0	5.9 5.8 5.5 5.2 5.0 5.3 5.5 6.3 7.1 6.6 6.8 6.8 6.9 6.7 6.8	6.7 7.5 6.1 6.4 6.8 7.2 7.4 8.1 8.5 8.4 8.3 8.5 8.4 8.0 7.8 6.3	10.8 14.2 13.3 13.2 13.1 12.4 12.2 13.2 13.2 13.2 13.2 13.2 13.2 13.1 11.8 10.7 12.1 11.7 12.1 11.8	8.7 8.3 8.4 8.67 8.8 8.7 9.0 9.1 9.1 9.0 9.6 9.4	10.8 10.4 10.2 10.3 10.2 10.1 10.5 10.5 10.3 10.0 9.7 10.0
13 14 15 16 17 18 19 20 21 22 23 24 25	4.9 5.6 5.7 6.0 7.4 7.7 8.5 8.9 7.1 5.7 6.1 4.4 5.4 6.1	1.9 1.1 2.3 2.6 1.4 2.3 2.6 3.8 3.8 5.0 3.8 5.0 3.8 1.6 2.2 1.5	3.6 3.0 4.0 4.0 3.8 4.7 5.3 6.0 6.3 6.8 5.6 4.4 4.0 2.9 3.3 3.6	8.5 9.4 8.9 8.6 5.0 7.6 9.1 8.1 8.9 9.2 9.4 9.1 8.6 8.2 6.5	3.3 3.1 3.2 3.6 3.8 2.9 2.2 3.0 4.5 4.3 4.4 4.3 4.4 4.3	5.9 6.2 5.6 5.8 5.8 3.9 4.5 5.6 6.1 6.3 6.0 5.7 5.7	8.1 10.1 6.6 8.6 9.5 10.3 9.9 11.2 11.4 11.5 11.0 11.4 11.0 10.2 10.4 9.4 8.6 8.5	5.9 5.8 5.5 5.2 5.0 5.3 5.5 6.3 7.1 6.6 6.8 6.8 6.8 6.9 6.7 6.8 4.0 6.2	6.7 7.5 6.1 6.4 6.8 7.2 7.4 8.1 8.5 8.4 8.3 8.5 8.4 8.0 7.8 6.3 7.3	10.8 14.2 13.3 13.2 13.1 12.4 12.2 13.2 13.2 12.5 11.8 10.7 12.1 11.7 12.1 11.8 12.5	8.7 8.3 8.4 8.6 8.7 8.8 8.7 9.0 8.9 9.1 9.0 9.2 9.4 9.4	10.8 10.4 10.2 10.3 10.2 10.1 10.5 10.5 10.3 10.0 9.7 10.0
13 14 15 16 17 18 19 20 21 22 23 24 25	4.9 5.7 6.0 7.4 7.7 8.9 7.1 5.7 6.1 4.4 5.4	1.9 1.1 2.3 2.6 1.4 2.3 2.6 3.8 5.0 3.8 5.0 3.8	3.6 3.0 4.0 4.0 3.8 4.7 5.3 6.8 5.6 4.4 4.0 2.9 3.3	8.5 9.4 8.9 8.6 5.0 7.6 9.1 8.1 9.2 9.4 9.1 8.6 8.5 8.5	3.3 3.1 3.2 3.6 3.8 2.9 2.2 3.0 4.5 4.3 4.4 4.3 4.4 4.3 4.1	5.9 6.2 5.6 5.8 5.8 3.9 4.5 5.9 6.1 6.3 6.0 5.7 5.7 6.1 6.5	8.1 10.1 6.6 8.6 9.5 10.3 9.9 11.2 11.4 11.5 11.0 11.4 11.0 10.2 10.4 8.6 8.5	5.9 5.8 5.5 5.2 5.0 5.3 5.5 6.3 7.1 6.6 6.8 6.8 6.9 6.7 6.8	6.7 7.5 6.1 6.4 6.8 7.2 7.4 8.1 8.5 8.4 8.0 8.0 7.8 6.3 7.3	10.8 14.2 13.3 13.2 13.1 12.4 12.2 13.2 13.2 13.2 13.2 13.2 13.2 13.1 11.8 10.7 12.1 11.7 12.1 11.8	8.7 8.3 8.4 8.67 8.8 8.7 9.0 9.1 9.1 9.0 9.6 9.4	10.8 10.4 10.2 10.3 10.2 10.1 10.5 10.5 10.3 10.0 9.7 10.0
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	4.9 5.6 5.7 6.0 7.4 7.7 7.9 8.5 8.9 7.1 5.7 6.1 4.9	1.9 1.1 2.3 2.6 1.4 2.3 2.6 3.8 3.8 5.0 3.8 5.0 3.8 2.5 1.6 2.2 1.5 1.3 2.1	3.6 3.0 4.0 4.0 3.8 4.7 5.3 6.0 6.3 6.3 6.4 4.0 2.9 3.3 3.6 3.5 3.5 4.1	8.5 9.4 8.9 8.6 5.0 7.6 9.1 8.9 9.2 9.4 9.1 8.2 6.5 8.5 9.1	3.3 3.1 3.2 3.6 3.8 2.9 2.2 3.0 4.5 4.3 4.4 4.3 4.1 4.3 4.1	5.9 6.2 5.6 5.8 5.8 3.9 4.5 5.9 6.1 6.3 6.3 6.7 5.7 5.7 6.5 6.9	8.1 10.1 6.6 8.6 9.5 10.3 9.9 11.2 11.4 11.5 11.0 11.4 11.0 10.2 10.4 9.4 8.6 8.5	5.9 5.8 5.5 5.2 5.0 5.3 5.5 6.3 7.1 6.6 6.8 6.8 6.8 6.9 6.7 6.8 4.0 6.2	6.7 7.5 6.1 6.4 6.8 7.2 7.4 8.1 8.5 8.4 8.3 8.5 8.4 8.0 7.8 6.3 7.3	10.8 14.2 13.3 13.2 13.1 12.4 12.2 13.2 13.2 12.5 11.8 10.7 12.1 11.7 12.1 11.8 12.5	8.7 8.3 8.4 8.6 8.7 8.8 8.7 9.0 8.9 9.1 9.0 9.4 9.4 9.4 9.4	10.8 10.4 10.2 10.3 10.2 10.1 10.5 10.3 10.0 9.7 10.0 10.3 10.4 10.4 10.4 10.5
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	4.9 5.6 5.7 6.0 7.4 7.7 7.9 8.9 7.1 5.7 6.1 4.9 5.2 6.6 	1.9 1.1 2.3 2.6 1.4 2.3 2.6 3.8 3.8 5.0 3.8 2.5 1.6 2.2 1.5 1.3 2.1	3.6 3.0 4.0 4.0 3.8 4.7 5.3 6.0 6.3 6.8 5.6 4.4 4.0 2.9 3.3 3.6 3.5 3.3 4.1	8.5 9.4 8.9 8.6 5.0 7.6 9.1 8.1 8.9 9.2 9.4 9.1 8.6 8.5 8.5 9.1 8.9	3.3 3.1 3.2 3.6 3.8 2.9 2.2 3.0 4.5 4.3 4.4 4.3 4.1 4.3 4.1 4.3 5.5 5.5 5.2	5.9 6.2 5.68 5.88 3.99 4.5 5.9 6.1 6.3 6.0 5.7 6.5 6.9 6.7	8.1 10.1 6.6 8.6 9.5 10.3 9.9 11.2 11.4 11.5 11.0 11.4 11.0 10.2 10.4 9.4 8.5 10.8 13.1 12.0 12.7 12.6	5.9 5.8 5.5 5.2 5.0 5.3 5.5 6.3 7.1 6.3 6.8 6.8 6.8 6.9 6.7 7.3 7.1 7.1	6.7 7.5 6.1 6.4 6.8 7.2 7.4 8.1 8.5 8.4 8.0 7.8 6.3 7.3 8.4 9.3 9.4 9.5 9.4	10.8 14.2 13.3 13.2 13.1 12.4 12.2 13.2 13.2 13.2 12.5 11.8 10.7 12.1 11.7 12.1 11.8 12.5 12.8 12.8 14.8	8.7 8.3 8.4 8.6 8.7 8.8 8.7 9.0 9.1 9.0 9.2 9.4 9.4 9.4 9.4	10.8 10.4 10.2 10.3 10.2 10.1 10.5 10.5 10.3 10.0 9.7 10.0 10.3 10.4 10.4 10.5 10.9 10.7 11.4 11.3
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	4.9 5.6 5.7 6.0 7.4 7.7 8.5 8.9 7.1 5.7 6.1 4.9 5.2 6.1	1.9 1.1 2.3 2.6 1.4 2.3 2.6 3.8 3.8 5.0 3.8 2.5 1.6 2.2 1.5 1.3 2.1	3.6 3.0 4.0 4.0 3.8 4.7 5.3 6.0 6.3 6.8 5.6 4.4 4.0 2.9 3.3 3.6 3.5 3.1	8.5 9.4 8.9 8.6 5.0 7.6 9.1 8.1 8.2 9.4 9.1 8.5 8.5 9.1	3.3 3.1 3.2 3.6 3.8 2.9 2.2 3.0 4.5 4.3 4.4 4.3 4.1 4.3 4.6 5.5 5.3	5.9 6.2 5.6 5.8 5.8 3.9 4.5 5.6 6.1 6.3 6.0 7 5.7 6.5 5.9 5.9	8.1 10.1 6.6 8.6 9.5 10.3 9.9 11.2 11.4 11.5 11.0 11.4 11.0 10.2 10.4 9.4 8.6 8.5	5.9 5.8 5.5 5.2 5.0 5.3 5.5 6.8 6.8 6.8 6.9 6.7 7.1	6.7 7.5 6.1 6.4 6.8 7.2 7.4 8.1 8.5 8.4 8.3 8.5 8.4 8.0 7.8 6.3 7.3 8.4 9.5	10.8 14.2 13.3 13.2 13.1 12.4 12.2 13.2 13.2 13.2 13.2 12.5 11.8 10.7 12.1 11.7 12.1 11.8 12.5 12.8 12.2	8.7 8.3 8.4 8.6 8.7 8.8 8.7 9.0 9.1 9.1 9.0 9.4 9.4 9.4 9.4	10.8 10.4 10.2 10.3 10.2 10.1 10.5 10.5 10.3 10.0 9.7 10.0 10.3 10.4 10.4 10.5 10.9 10.7 11.4 11.3

07099970 ARKANSAS RIVER AT MOFFAT STREET, AT PUEBLO, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1 2 3 4 5	14.1 12.6 13.5 13.9 14.3	10.6 10.8 10.8 11.6 12.3	11.9 11.5 12.0 12.6 13.2	19.0 18.9 19.4 19.3	16.1 16.3 16.4	17.1 17.4 17.5	21.7 20.3 22.3 21.8 19.6	17.9 17.9 17.7 18.2 18.4	19.3 18.9 19.5 19.4 18.9	23.3 22.9 23.3 22.8 23.0	18.5 19.0 19.2 18.8 18.6	20.4 20.5 20.7 20.4 20.4
6 7 8 9 10	14.4 17.4 14.9 14.8 20.2	12.1 13.4 13.4 13.7 14.0	13.5 14.2 13.9 14.2 16.5	19.6 19.3 20.1 20.1 20.3	16.4 16.1 16.2 16.3 16.7	17.4 17.3 17.6 17.8 18.0	19.4 21.1 21.7 21.5 19.8	18.5 18.3 18.4 18.2 18.6	18.7 19.2 19.6 19.4 19.0	22.8 23.0 23.8 21.9 23.5	18.9 18.5 18.5 18.0 17.6	20.3 20.3 20.6 19.7 20.2
11 12 13 14 15	17.6 15.6 16.2 16.4 16.0	13.1 14.0 14.1 14.2 14.0	14.7 14.6 14.9 14.9	19.8 20.6 20.6 20.7 21.3	16.7 16.5 16.6 16.8 16.9	17.8 18.1 18.1 18.3 18.6	21.5 21.4 21.8 21.6 22.3	15.0 18.4 18.9 18.5 18.4	19.0 19.6 19.9 19.7 19.9	23.5 23.1 23.3 23.5 23.7	17.6 17.9 17.7 18.2 17.9	20.2 20.2 20.3 20.6 20.5
16 17 18 19 20	15.9 16.1 16.5 16.5	14.6 14.8 14.9 14.9	15.1 15.3 15.6 15.6	21.3 21.4 20.9 20.7 20.4	16.9 16.7 16.7 17.4 17.4	18.6 18.5 18.3 18.5 18.6	22.3 21.8 22.0 22.6 23.0	18.4 18.5 18.9 18.4 18.6	19.7 19.8 19.9 20.0 20.6	22.5 22.8 23.1 22.6 18.9	18.3 18.1 17.9 18.1 16.6	20.2 20.1 20.2 20.0 17.5
21 22 23 24 25	16.7 16.8 17.2 17.3 17.4	15.2 15.5 15.4 15.6 15.7	15.8 16.0 16.2 16.4 16.4	20.7 21.0	17.5 17.7 	18.7 	23.3 23.9 24.0 24.1 24.4	18.2 18.2 18.0 18.1	20.5 20.6 20.7 20.8	19.1 21.6 20.1 21.9 22.2	16.4 18.2 18.3 18.3	17.9 19.5 19.0 19.6 19.7
26 27 28 29 30 31	18.1 18.0 18.1 18.6 18.9	15.7 15.8 16.0 16.1 16.1	16.7 16.6 16.9 17.0 17.2	20.6 21.3 20.4 21.7 21.8 22.1	17.5 17.7 17.9 17.8 17.8	18.6 18.9 18.8 19.3 19.4 19.5	24.0 24.2 22.9 23.8 21.7 22.9	18.4 18.5 18.7 18.6 18.7 18.6	20.7 21.0 20.6 20.6 19.9 20.1	21.6 22.2 21.5 21.8 22.0	18.3 18.4 17.9 17.5 17.1	19.6 19.8 19.2 19.2
MONTH	20.2	10.6	15.0				24.4			23.8	16.4	19.9

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO

LOCATION.--Lat 38°51'17", long 104°52'39", in SE¹/4SW¹/4 sec.3, T.14 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank 200 ft upstream from diversion to city of Colorado Springs, 0.5 mi east of bridge on U.S. Highway 24 near west city limits of Colorado Springs, and 1.0 mi downstream from Sutherland Creek.

DRAINAGE AREA.--103 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder with satellite telemetry, and V-notch weir. Elevation of gage is 6,110 ft above sea level, from topographic map. Apr. 1958 to Feb. 3, 1992 and Apr. 16, 1992 to current year, at present site and datum. Feb. 4 to Apr. 15, 1992 gage temporarily located 80 ft upstream, at same datum.

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

			DISCH	IARGE, CUBI	C FEET PER		WATER YEAR MEAN VALU		1996 TO SI	EPTEMBER 19	97	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	28 28 28 26 27	16 16 16 16	8.1 8.2 4.9 6.6 6.7	9.7 10 9.4 8.3 3.6	9.3 8.3 8.0 6.0 6.4	6.7 6.9 7.5 6.2 7.4	9.7 11 9.5 10	39 38 37 34 48	73 73 72 72 71	57 48 48 48 47	76 83 73 65 79	54 56 55 68 54
6 7 8 9 10	27 26 26 25 25	16 19 21 17 14	9.9 9.5 9.6 9.7 9.1	6.5 7.6 8.0 9.1 9.2	6.3 5.8 6.4 6.3 7.2	7.6 7.8 7.7 7.4 7.1	9.4 9.5 9.0 10 9.8	73 79 83 66 61	469 455 345 623 623	43 40 37 37 38	65 60 54 50 56	52 43 37 35 36
11 12 13 14 15	23 23 22 23 22	12 11 10 10	9.0 8.6 8.5 8.3 4.7	7.3 5.7 6.9 7.7 7.8	7.5 7.7 8.1 7.7 9.5	7.8 8.3 8.5 8.5 8.2	11 12 13 12 12	60 71 67 53 54	238 161 166 176 209	38 38 35 32 29	56 56 52 45 44	37 37 35 34 33
16 17 18 19 20	16 16 17 16 15	9.4 7.9 8.6 8.9 8.5	8.0 3.2 3.3 8.2	7.3 7.0 7.4 7.8 7.4	8.3 7.9 7.6 7.6 7.1	9.6 9.4 13 13	13 13 14 14	51 44 40 41 48	208 206 194 183 168	28 27 27 25 34	42 44 54 46 44	33 33 32 31 34
21 22 23 24 25	16 18 17 17	10 8.9 9.5 8.7 9.3	14 11 9.4 8.5 9.0	7.2 6.4 7.1 6.6 5.3	7.1 6.5 9.1 7.5 8.8	11 11 11 12 13	17 16 21 37 21	63 73 73 67 71	152 144 135 137 121	36 36 30 28 32	41 38 36 36 71	34 29 27 26 24
26 27 28 29 30 31	17 18 18 16 16	8.3 8.3 8.1 8.4 8.5	8.6 8.6 8.7 8.6 9.1	8.0 7.3 6.2 9.8 9.2 9.3	9.1 8.4 6.8 	10 11 9.4 9.9 9.5 9.4	26 35 40 46 45	70 66 64 68 76 73	112 104 89 81 72	31 59 91 73 84 69	100 65 62 60 57 55	23 23 23 23 22
TOTAL MEAN MAX MIN AC-FT	645 20.8 28 15 1280	351.3 11.7 21 7.9 697	261.2 8.43 14 3.2 518	236.1 7.62 10 3.6 468	212.3 7.58 9.5 5.8 421	288.8 9.32 13 6.2 573	530.9 17.7 46 9.0 1050	1851 59.7 83 34 3670	5932 198 623 71 11770	1325 42.7 91 25 2630	1765 56.9 100 36 3500	1083 36.1 68 22 2150
MEAN MAX (WY) MIN (WY)	12.5 44.0 1985 5.29 1979	10.5 34.6 1985 4.98 1965	8.49 18.8 1985 4.14 1990	7.96 18.5 1985 4.46 1994	7.54 13.6 1986 4.44 1972	8.91 15.2 1985 4.91 1965	13.1 33.4 1985 5.90 1963	30.4 172 1980 6.37 1989	32.2 198 1997 6.69 1989	21.8 108 1995 6.48 1964	19.1 60.9 1965 5.48 1974	14.1 36.1 1997 5.00 1978
SUMMARY	STATIST	ICS	FOR	1996 CALEN	IDAR YEAR	F	OR 1997 WA	TER YEAR		WATER YE	ARS 1958	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL M ANNUAL M DAILY M DAILY ME SEVEN-DA ANEOUS P	EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		6558.6 17.9 71 3.2 6.3 13010 30 15 9.0	May 26 Dec 17 Dec 13		14481.6 39.7 a623 3.2 6.3 3340 5.57 28720 73 17 7.4	Jun 9 Dec 17 Dec 13 Jun 6		15.5 39.7 7.29 a623 2.0 b340 c5.57 11260 28 9.6 5.5	Jan 2 Mar 2 Jun	1997 1963 9 1997 44 1969 00 1965 6 1997 6 1997

a-Also occurred Jun 10, 1997. b-From rating curve extended above 488 ft 3 /s, on basis of slope-area measurements of peak flow at gage heights, 3.87 ft, 4.52 ft, and 5.27 ft. c-Maximum gage height, 6.15 ft, Sep 3, 1991, from floodmark.

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1974 to current year.

PERIOD OF DAILY RECORD.--Suspended-sediment discharge August 1995 to current year (peak flows only).

INSTRUMENTATION.--Pumping sediment sampler since August 1995.

REMARKS.--Records for daily sediment during peak flows are fair.

EXTREMES FOR PERIOD OF DAILY RECORD .--

SEDIMENT CONCENTRATIONS: Maximum daily mean during peak flows, 8,090 mg/L, June 6, 1997; minimum daily mean, 125 mg/L, June 28, 1997.

SEDIMENT LOADS: Maximum daily during peak flows, 41,800 tons, June 6, 1997; minimum daily, 12 tons, Aug. 15, 1996.

EXTREMES FOR CURRENT YEAR .--

SEDIMENT CONCENTRATIONS: Maximum daily mean during peak flows, 8,090 mg/L, June 6; minimum daily mean, 125 mg/L, June 28.

SEDIMENT LOADS: Maximum daily during peak flows, 41,800 tons, June 6; minimum daily, 30 tons, June 1, 28.

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

DATE		TIME	DI: CHARGENS' CUB: FE: PE: SECGENS'	GE, SPE F. CIF IC CON ET DUC R ANC OND (US/	FIC I- CT- CE (CM)	pH (STAND ARD UNITS (00400	- ATI WA:) (DEC	PER- URE FER G C)	DI	S- VED /L)	OXYGE DEMAN BIO- CHEN ICAI 5 DA (MG/	ND, - - - - - - - - - - - - - - - - - - -	COLI FORM FECA 0.7 UM-M (COLS 100 M	L, F L)	STREP- FOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	CALO DIS SOI (MO	S- LVED S/L CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
OCT 23		0900	17		252	8.	2	3.0	1	1.6	(0.4	K6	00	170	28		5.3
NOV 21		0840	11		337	8.	3	5.0		9.9	(0.6		75	140	36		7.3
DEC 12		0845	8	. 6	363	7.	9	1.5	1	1.4	<(0.1		60	200	39		8.2
JAN 23		1200	7	.1	417	8.	4	2.5	1	1.0	(0.5	>3	00	>500	44		9.1
FEB 20		0945	7	.1	416	7.	3	2.5	1	0.9	(0.4	K	50	K27	41		8.7
MAR 20 MAY		0900	13		314	7.	3	4.5	1	0.5	(0.6	K8	70	87	31		6.2
01 29 JUN		1015 1015	40 62		313 170	7. 7.		5.5 7.5		0.0 9.4		0.8	_	40 70	190 100			5.9 2.9
26 JUL		0930	109		188	7.	5 :	10.5		8.7	(0.7	2	00	170	20		3.7
24 AUG		1030	27		301	7.	9 :	14.0		8.2	(0.4	1	40	390	31		6.3
14 SEP		0945	46		187	7.	7 :	11.5		8.4	1	L.2	3	50	270	18		3.4
18		1000	36		196	7.	3 :	12.0		8.4	e1	1.2	1	30	340	20		3.8
	DATE	LIN I (N F	LKA- HITY LAB MG/L AS ACO3)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	RII DIS SOI (MC AS	DE, I S- LVED : G/L CL) :	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	TOTA AT 1 DEG SUS PENI	105 . C, S- DED G/L)	GI NITI DI SOI (MO	IS- LVED G/L	NIT GE NO2+ DI SOL (MG AS	N, NO3 S- VED /L N)	NITE GET AMMON DIS SOLV (MG, AS 1	N, GE NIA MO S- OR VED T /L (N) A	ITRO- N,AM- NIA + GANIC OTAL MG/L S N) 0625)	PHO PHOI OR: DIS SOLV (MG, AS I	RUS FHO, S- VED /L P)
OCT	3	87	7	12	13	3	2.7		4	< 0	.01	0.	59	<0.0	115	<0.2	< 0	.01
NOV		122		16	19		2.8		<1		.02	0.		<0.0		<0.2		.01
DEC 12	2	128	3	17	22	2	2.8		2	0	.02	1.	2	0.0	020	<0.2	<0	.01
JAN 23	3	148	3	20	27	7	2.7		6	0	.01	1.	1	0.0	020	0.2	< 0	.01
FEB 20)	148	3	20	26	б	2.6		4	0	.02	1.	3	<0.0	015	<0.2	< 0	.01
)	106	5	14	18	8	2.9		11	< 0	.01	0.	95	<0.0	015	<0.2	< 0	.01
29)	7 4 4 7		18 10		 8.5	2.7		41 23		.01	1.		<0.0		0.47		.01
	5	52	2	14	9	9.5	2.6		27	< 0	.01	0.	68	0.0	024	0.22	0	.01
	ł	94	l	18	15	5	2.7		7	< 0	.01	1.	01	<0.0	015	<0.2	0	.01
AUG 14 SEP	ł	56	5	11	8	8.1	2.8		55	< 0	.01	0.	56	<0.0	015	<0.2	< 0	.01
	3	62	2	11	8	8.9	2.7		19	< 0	.01	0.	56	<0.0	015	<0.20	< 0	.01

e-Estimated. K-Based on non-ideal colony count.

ARKANSAS RIVER BASIN

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO--Continued

DATE	WA' UNF: TO' (U) AS	MIUM TER LTRD TAL G/L CD) 027)	CADMI DIS SOLV (UG/ AS C	UM TC - RE ED ER L (U	RO- UM, TAL COV- ABLE G/L CR) 034)	CHRC MIUM DIS- SOLV (UG/ AS C	I, ED L CR)	CHR MIU HEX VALE DI (UG AS	M, A- NT, S. /L CR)	COPP TOT REC ERA (UG AS (010	AL OV- BLE /L CU)	COPPI DIS- SOLV (UG, AS (- VED /L CU)	IRO TOT REC ERA (UG AS	AL OV- BLE /L FE)	IRON DIS SOLV (UG, AS 1	S- VED /L FE)
OCT 23		<1	<1		<1	<1			<1		<1	<1			260	3 (0
NOV 21		<1	<1		<1	<1			<1		<1	1			180	3	3
DEC 12		<1	<1		<1	<1			<1		<1	<1			150	1	1
JAN 23		<1	<1		<1	<1			<1		1	1			160	20	0
FEB 20		<1	<1		<1	<1			<1		<1	<1			130	1:	3
MAR 20		<1	<1		<1	<1			<1		1	1	. 2		400	1	4
MAY 01 29		<1 <1	<1 <1		1 <1	<1 <1			<1 <1		3 1	<1 <1			400 970	1:	_
JUN 26		<1	<1		<1	<1			<1		4	2	. 5	1	900	1	8.0
JUL 24		<1	<1		<1	<1			<1		2	1	. 4		430	(6.9
AUG 14 SEP		<1	<1		<1	<1			<1		2	1	. 2	2	300	(6.5
18		<1	<1		<1	<1			<1		2	<1			890	(6.7
	DATE	REC ER (UC AS	AD, FAL COV- ABLE G/L PB) 051)	LEAD, DIS- SOLVED (UG/L AS PB)	NES TO: REG ERA (UG AS	ANGA- SE, FAL COV- ABLE G/L MN)	NES DI SOL (UG	S- LVED E/L MN)	REC ERA (UC AS	KEL, FAL COV- ABLE G/L NI)	DI: SO: (U) AS	KEL, S- LVED G/L NI) 065)		'AL 'OV- BLE '/L ZN)	ZIN DI SOL (UG AS	S- VED /L ZN)	
OCT 2	3		<1	<1		40	34			<1	<1		<	10	<3		
NOV 2	1		<1	<1		30	34			<1	<1		<	10	<3		
	2		<1	<1		40	34			1	<1		<	10	4.	0	
	3		<1	<1		30	29			<1	<1		<	10	5.	0	
	0		<1	<1		40	29			<1	<1		<	10	6.	0	
	0		<1	<1		51	26			<1	<1		<	10	6.	5	
2	1 9		6 2	<1 <1	:	180 64	24 14			1 <1	<1 <1			20	<3 <3		
	6		3	<1		110	29			<1	<1			20	5.	5	
	4		<1	<1		51	25			<1	<1		<	10	5.	4	
	4		4	<1.0	3	110	16			1	<1	. 0		20	<3.	0	
SEP 1	8		1	<1.0		60	15			<1	<1	. 0	<	10	5.	4	

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO--Continued

 ${\tt MISCELLANEOUS\ FIELD\ MEASUREMENTS,\ WATER\ YEAR\ OCTOBER\ 1996\ TO\ SEPTEMBER\ 1997}$

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT					MAY				
08	1455	27	186	10.5	08	1135	88	172	6.5
11	1320	17	275	8.5	08	1200	79	171	7.0
NOV					JUN				
08	1410	17	261	5.5	07	1340	290	170	10.0
21	1145	10	360	4.0	09	1830	518	134	10.0
DEC					10	1135	488	165	9.0
09	1515	9.4	394	5.0	JUL				
JAN					09	1615	40	261	13.5
23	1100	7.2	427	2.0	29	1200	55	212	13.5
FEB					AUG				
25	1025	7.7	475	0.0	05	1900	124	170	16.0
MAR					08	0610	58	135	11.0
18	1000	13	303	3.5	SEP				
APR					18	1645	31	198	14.5
25	1130	18	349	1.0					

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

		DIS- CHARGE,		SEDI- MENT,
		INST.	SEDI-	DIS-
		CUBIC	MENT,	CHARGE,
		FEET	SUS-	SUS-
DATE	TIME	PER	PENDED	PENDED
		SECOND	(MG/L)	(T/DAY)
		(00061)	(80154)	(80155)
MAY				
08	1200	79	329	70
JUN	1200	, ,	323	, 0
07	1340	290	1950	1530
09	1830	518	2860	4000
10	1500	428	2660	3070
JUL	1300	420	2000	3070
29	1200	55	95	14
AUG	1200	33	23	11
05	1900	124	4420	1480
05	1900	124	1120	T-400

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO--Continued

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

DAY	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER		1	NOVEMBER		DI	ECEMBER	
1	28			16			8.1		
2	28			16			8.2		
3	28			16			4.9		
4	26			16			6.6		
5	27			16			6.7		
6	27			16			9.9		
7 8	26 26			19 21			9.5 9.6		
9	25			17			9.0		
10	25			14			9.1		
11	23			12			9.0		
12	23			11			8.6		
13	22			10			8.5		
14	23			10			8.3		
15	22			10			4.7		
16	16			9.4			8.0		
17	16			7.9			3.2		
18	17			8.6			3.3		
19	16			8.9			8.2		
20	15			8.5			13		
21	16			10			14		
22	18			8.9			11		
23	17			9.5			9.4		
24 25	17 17			8.7 9.3			8.5 9.0		
26	17			8.3			8.6		
27	18 18			8.3			8.6		
28 29	16			8.1 8.4			8.6 8.7		
30	16			8.5			8.6		
31	16						9.1		
TOTAL	645			351.3			261.2		
		JANUARY		1	FEBRUARY			MARCH	
1 2	9.7 10			9.3 8.3			6.7 6.9		
3	9.4			8.0			7.5		
4	8.3			6.0			6.2		
5	3.6			6.4			7.4		
6	6.5			6.3			7.6		
7	7.6			5.8			7.8		
8	8.0			6.4			7.7		
9	9.1			6.3			7.4		
10	9.2			7.2			7.1		
11	7.3			7.5			7.8		
12	5.7			7.7			8.3		
13	6.9			8.1			8.5		
14 15	7.7 7.8			7.7 9.5			8.5 8.2		
16	7.3			8.3			9.6		
17	7.0			7.9			9.4		
18 19	7.4 7.8			7.6 7.6			13 13		
20	7.4			7.1			13		
21	7.2			7.1			11		
22 23	6.4 7.1			6.5 9.1			11 11		
24	6.6			7.5			12		
25	5.3			8.8			13		
26	8.0			9.1			10		
27	7.3			8.4			11		
28	6.2			6.8			9.4		
29	9.8						9.9		
30 31	9.2 9.3						9.5		
TOTAL				212.3			9.4 288.8		
	200.2			212.5			200.0		

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO--Continued

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

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1 2 3 4 5	9.7 11 9.5 10		 	39 38 37 34 48		=== === ===	73 73 72 72 71	131 	30
6 7 8 9	9.4 9.5 9.0 10 9.8	 	 	73 79 83 66 61	 	 	469 455 345 623 623	8090 4920 1760 3950 3070	41800 11300 1840 9190 6670
11 12 13 14 15	11 12 13 12 12	 	 	60 71 67 53 54	 	 	238 161 166 176 209	1660 1260 1840	1090 e574 566 e703 1040
16 17 18 19 20	13 13 14 14 14	 	 	51 44 40 41 48	 	 	208 206 194 183 168	475 283	 249 e184 129
21 22 23 24 25	17 16 21 37 21	 	 	63 73 73 67 71	547 350 	166 95 	152 144 135 137 121	220 	 80
26 27 28 29 30 31	26 35 40 46 45		 	70 66 64 68 76 73		 	112 104 89 81 72	289 125 	88 e57 30
TOTAL	530.9			1851			5932		
		JULY			AUGUST		SI	EPTEMBER	
1 2 3 4 5	57 48 48 48 47	 	 	76 83 73 65 79	309 240	63 62	54 56 55 68 54	 	
6 7 8 9 10	43 40 37 37 38	 	 	65 60 54 50 56	 	 	52 43 37 35 36	 	
11 12 13 14 15	38 38 35 32 29		 	56 56 52 45 44		 	37 37 35 34 33		
16 17 18 19 20	28 27 27 25 34		 	42 44 54 46 44	 	 	33 33 32 31 34	 	
21 22 23 24 25	36 36 30 28 32		 	41 38 36 36 71	 	 	34 29 27 26 24	 	
26 27 28 29 30	31 59 91 73 84	1560 796 993 740	635 285 429 209	100 65 62 60 57	 	 	23 23 23 23 23 22	 	
31 TOTAL	69 1325	728	243	55 1765			1083		

e-Estimated.

07103703 CAMP CREEK AT GARDEN OF THE GODS, CO

 $LOCATION.--Lat~38^{o}52'37", long~104^{o}52'20", in~SE^{1/4}NE^{1/4}~sec. 34, T.13~S., R.67~W., El~Paso~County, Hydrologic~Unit~11020003, on~right~bank, 70~ft~downstream~from~county~road~bridge~at~east~entrance~to~Garden~of~the~Gods~Park,~and~1.9~mi~upstream~from~mouth.$

DRAINAGE AREA.--9.45 mi².

PERIOD OF RECORD .-- April 1992 to current year.

GAGE.--Water-stage recorder and satellite telemetry. Elevation of gage is 6,310 ft above sea level, from topographic map.

REMARKS.--Records fair except those above 100 ft³/s, which are poor. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

			DISCHA	ARGE, CUBI	C FEET PER S		VATER YEAI MEAN VALU		R 1996 TO SE	EPTEMBER 19	997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	7.2 7.4 5.3 4.0 7.0	3.0 2.6 2.2 2.0 2.0	1.7 1.3 .94 .69	.56 .24 .03 .01	.00 .00 .00 .02
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	11 13 15 14 14	20 139 59 51 139	.40 .21 .04 .10	.02 .13 .08 .00	.17 .00 .00 .00
11 12 13 14 15	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	13 14 13 e12 12	65 56 43 37 33	.00 .00 .00 .00	.11 .51 .58 .36	.00 .00 .00 .00
16 17 18 19 20	.00 .00 e.00 e.00 e.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	11 9.4 8.6 8.8 7.0	30 27 23 18 15	.00 .00 .00 .00	.04 .00 .00 .00	.00 .00 .00 .00
21 22 23 24 25	e.00 e.00 e.00 e.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.02 .00 .07 .08	6.2 6.6 8.1 6.9 6.0	12 10 8.3 7.8 6.5	.00 .00 .00 .00	.24 .19 .07 .00	.00 .01 .00 .00
26 27 28 29 30 31	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 	.00 .00 .00 .00	.08 .09 .07 .01 5.8	5.3 4.8 4.3 3.8 3.7 3.4	5.2 4.4 3.7 3.0 2.2	.01 .06 .02 .93 .02	.00 .02 .09 .01 .00	.00 .00 .00 .00
TOTAL MEAN MAX MIN AC-FT	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	6.29 .21 5.8 .00	265.8 8.57 15 3.4 527	829.9 27.7 139 2.0 1650	7.55 .24 1.7 .00 15	3.88 .13 .58 .00 7.7	0.20 .007 .17 .00
					TEARS 1992	- 1997,						
MEAN MAX (WY) MIN (WY)	.025 .12 1995 .000 1993	.000 .002 1995 .000 1993	.000 .001 1993 .000 1994	.003 .015 1995 .000 1993	.000 .000 1993 .000 1993	.10 .38 1996 .000 1994	.57 1.99 1995 .000 1994	9.60 41.1 1995 .014 1996	8.50 27.7 1997 .001 1996	1.21 6.78 1995 .000 1993	.16 .77 1995 .000 1993	.20 .76 1994 .000 1993
SUMMARY	STATISTI	CS	FOR 1	.996 CALEN	IDAR YEAR	F	OR 1997 W <i>P</i>	ATER YEAR		WATER YE	EARS 1992	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN AN N MINIMUM AK FLOW AK STAGE C-FT) DS DS		16.20 .04 1.7 b.00 .00	Mar 25 Jan 1 Jan 1		1113.62 3.05 139 b.00 .00 218 4.51 2210 7.1 .00	Jun 7 0 Oct 1 0 Oct 1 Jun 6 1 Jun 6		1.99 6.03 a ₁₃₉ b.00 .00 c ₂₇₃ 5.28 1440 2.1	Jun Jun Aug : Sep Sep	1995 1996 7 1997 15 1992 15 1992 2 1994 2 1994

a-Also occurred Jun 10, 1997. b-No flow most of the time most years. c-From rating curve extended above 40 ft³/s on the basis of contracted-opening measurement.

 $LOCATION.--Lat\ 39^{o}06'07",\ long\ 104^{o}53'27",\ in\ SE^{1}/4SE^{1}/4\ sec.9,\ T.11\ S.,\ R.67\ W.,\ El\ Paso\ County,\ Hydrologic\ Unit\ 11020003,\ on\ left\ bank\ 0.9\ mi\ upstream\ from\ Monument\ Lake,\ 1.5\ mi\ downstream\ from\ North\ Monument\ Creek,\ and\ 1.9\ mi\ southeast\ of\ town\ of\ Palmer\ Lake.$

PERIOD OF RECORD.--April 1977 to September 1980; January 1984 to current year.

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

DATE	TIME	DISCHARGED INSTACTOR OF THE PERSECT (0006)	SE, SPE C. CIE CC CON CT DUC L ANC DND (US)	FIC 1- CT- (S CE (CM) (pH STAND- ARD JNITS)	TEMPE ATUR WATE (DEG (0001	E D R SO C) (M	GEN, IS- LVED IG/L) 300)	OXYG DEMA BIO CHE ICA 5 D (MG	ND, - M- L, AY /L)	COLI- FORM, FECAL 0.7 UM-MF (COLS. 100 ML	TOCO KF 2 (CO) / PI) 100	CAL, AGAR LS. ER	CALCI DIS- SOLV (MG/ AS (UM ED L L	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) 00925)
OCT 22	1000	0.	90	190	8.0	5	.0	9.5		0.6	2	5	32	23		4.2
NOV 20	0900	1.	3	162	7.9	3	. 5	10.2		0.5	2	6	39	18		3.2
DEC 11	0930	0.	90	194	7.8	2	.5	10.6		0.2	K1	4	56	21		3.8
JAN 22	1200	0.	50	198	7.6	1	.0	11.0	-	-	K	1	К8	21		3.9
FEB 19 MAR	1000	0.	84	197	7.8	2	.0	10.7		0.5	K	.9	15	23		4.0
19 APR	0900	0.	61	198	7.6	5	.0	10.1		0.5	7	7	36	22		4.0
23 MAY	1000	4.	5	120		4	.5			0.4	<	1	30	14		2.1
28 JUN	0930	12		94	7.7	9	.0	8.8		0.2	K	2	27	11		1.5
25 JUL	0900	15		103	8.1	14	.5	7.5		0.7	2	1	88	11		1.6
23 AUG	0945	1.	4	165	7.7	20	.0	7.1		0.7	K20	0	69	20		3.3
13 SEP	1100	14		116	8.0	15	.5	7.5		0.7	K1	3	K20	13		1.8
17	1030	7.	6	131	7.8	15	.5	7.4		0.6	K2	2	42	15		2.3
DATE	LIN L (M E A CA	KA- ITY AB IG/L S CO3) 410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVE (MG/I AS CI	, RI D ED SC L (M L) AS	UO- DE, DIS- LVED IG/L F)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	G NIT D SO (M AS	TRO- EN, RITE DIS- DLVED IG/L S N)	NIT GE NO2+ DI SOL (MG AS	N, NO3 A S- VED /L N)	NITRO- GEN, MMONIA DIS- SOLVED (MG/L AS N) 00608)	GEN MONI ORGA TO (MO	ANIC TAL G/L	PHOS PHORU ORTH DIS- SOLVE (MG/I AS P)	rs ro, rD
OCT 22	73		8.6	6.9)	1.8	<1	< 0	.01	<0.	05	<0.015	< (0.2	<0.0	1
NOV 20	59		8.3	5.7	7	2.0	<1	< 0	.01	<0.	05	<0.015	< (0.2	<0.0	1
DEC 11	61		9.5	12		2.0	<1	. 0	.18	4.	7	0.71		1.5	0.9	6
JAN 22 FEB	67		11	11		1.7	<1	< 0	.01	0.	07	0.02	< (0.2	<0.0	1
19 MAR	67		11	9.8	3	1.6	10	0	.01	0.	05	0.015	(0.2	0.0	1
19 APR	66		11	11		1.8	9	<0	.01	<0.	05	<0.015	< (0.2	<0.0	1
23 MAY	40		7.8	4.2	2	1.7	6	< 0	.01	<0.	05	<0.015	< (0.2	<0.0	1
28 JUN	31		6.9	2.1	L	1.6	<1	< 0	.01	<0.	05	<0.015	< (0.2	<0.0	1
25 JUL	34		5.7	1.8	3	1.8	4	< 0	.01	<0.	05	<0.015	< (0.2	<0.0	1
23 AUG	64		6.1	4.5	5	1.9	3	< 0	.01	<0.	05	<0.015	(0.2	<0.0	1
13 SEP	41		6.1	1.8	3	1.6	2	< 0	.01	0.	05	<0.015	<(0.2	<0.0	1
17	49		5.6	2.4	1	1.6	4	< 0	.01	<0.	05	<0.015	< (0.2	<0.0	1

K-Based on non-ideal colony count.

07103747 MONUMENT CREEK AT PALMER LAKE, CO--Continued

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

Ι	DATE	CADM WAT UNFL TOT (UG AS	ER TRD AL /L CD)	CADMI DIS SOLV (UG, AS (MI IUM TO S- RI VED EI /L (1 CD) AS	HRO- LUM, DTAL ECOV- RABLE JG/L S CR) LO34)	CHROMIUM DISSOLVE (UG. AS (010)	M, - /ED /L CR)	CHR MIU HEX VALE DI (UG AS (010	M, A- NT, S. /L	COPP TOT REC ERA (UG AS (010	AL OV- BLE /L CU)	COPPH DIS- SOLV (UG, AS (- VED /L CU)	IRON TOTA RECO ERAB (UG/ AS F:	L V- LE L E)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	
OCT 22.			<1	<1		<1	<1			3	<	1	<1		600		240	
NOV 20.			<1	<1		<1	<1		<	1	<	1	<1		330		170	
DEC 11.			<1	<1		<1	<1		<	1	<	1	<1		280		120	
JAN 22.			<1	<1		<1	<1		<	1	<	1	<1		370		19	
FEB 19.			<1	<1		<1	<1		<	1	<	1	<1		1100		56	
MAR 19.			<1	<1		<1	<1		<	1		1	<1		480		78	
APR 23.			<1	<1		<1	<1		<	1		2	<1		210		43	
MAY 28. JUN			<1	<1		<1	<1		<	1	<	1	<1		230		36	
25.			<1	<1		<1	<1		<	1	<	1	<1		420		38	
JUL 23. AUG			<1	<1		<1	<1		<	1		1	<1		620		230	
13. SEP			<1	<1		<1	<1		<	1		2	<1		410		55	
17.			<1	<1		<1	<1		<	1		1	1.1		440		130	
	D.	ATE	TO' RE(ER) (U) AS	AD, FAL COV- ABLE G/L PB)	LEAD, DIS- SOLVEI (UG/L AS PB (01049	N: T(R: O E: (1	ANGA- ESE, OTAL ECOV- RABLE UG/L S MN)	NE D SO (U AS	NGA- SE, IS- LVED G/L MN) 056)	TO RE ER (U AS	KEL, TAL COV- ABLE G/L NI) 067)	DI SO (U	KEL, S- LVED G/L NI) 065)		'AL !OV- !BLE !/L ZN)	ZIN DI SOL (UG AS (010	S- VED /L ZN)	
	OCT 22.		<	1	<1		230	21	0		<1	<	1	<1	.0	<3		
	NOV 20.		<	1	<1		100	8	9		<1	<	1	<1	.0	<3		
	DEC 11.		<	1	<1		120	11	0		<1	<	1	<1	.0	<3		
	JAN 22.		<	1	<1		220	19	0		<1	<	1	<1	.0	<3		
	FEB 19.		<	1	<1		290	22	0		<1	<	1	<1	.0	<3		
	MAR 19.		<	1	<1		130	10	7		<1	<	1	<1	.0	<3		
	APR 23.		<	1	<1		29	2	0		<1	<	1	<1	.0	<3		
	MAY 28.		<	1	<1		20	1	2		<1	<	1	<1	.0	5.3		
	JUN 25.		<	1	<1		39	2	3		<1	<	1	<1	.0	<3		
	JUL 23.		<	1	<1		93	7	8		<1	<	1	<1	.0	5.1		
	AUG 13.		<	1	<1		37	2	6		<1	<	1	<1	.0	<3		
	SEP 17.		< 1	1	<1		47	3	8		<1	<	1	<1	.0	<3		

07103780 MONUMENT CREEK ABOVE NORTH GATE BOULEVARD, AT U.S. AIR FORCE ACADEMY, CO

 $LOCATION.--Lat~39^{o}01'52", long~104^{o}50'52", in~SW^{1}/_{4}SW^{1}/_{4}~sec.1,~T.12~S.,~R.67~W.,~El~Paso~County,~Hydrologic~Unit~11020003,~on~right~bank,~at~U.S.~Air~Force~Academy,~50~ft~upstream~from~Denver~and~Rio~Grande~Western~Railroad~bridge,~0.8~mi~upstream~from~Denver~and~Rio~Grande~Western~Railroad~bridge,~0.8~mi~upstream~from~Denver~and~Rio~Grande~Western~Railroad~bridge,~0.8~mi~upstream~from~Denver~and~Rio~Grande~Western~Railroad~bridge,~0.8~mi~upstream~from~Denver~and~Rio~Grande~Western~Railroad~bridge,~0.8~mi~upstream~from~Denver~and~Rio~Grande~Western~Railroad~bridge,~0.8~mi~upstream~from~Denver~and~Rio~Grande~Bridge,~0.8~mi~upstream~from~Denver~and~Rio~Grande~Bridge,~0.8~mi~upstream~from~Denver~and~Rio~Grande~Bridge,~0.8~mi~upstream~from~Denver~and~Rio~Grande~Bridge,~0.8~mi~upstream~from~Denver~and~Rio~Grande~Bridge,~0.8~mi~upstream~from~Denver~and~Rio~Grande~Bridge,~0.8~mi~upstream~from~Denver~and~Rio~Grande~Bridge,~0.8~mi~upstream~from~Denver~and~Rio~Grande~Bridge,~0.8~mi~upstream~from~Denver~and~Rio~Grande~Bridge,~0.8~mi~upstream~from~Denver~and~Rio~Grande~Bridge,~0.8~mi~upstream~from~Denver~and~Rio~Grande~Bridge,~0.8~mi~upstream~from~Denver~and~Rio~Grande~Bridge,~0.8~mi~upstream~from~Denver~and~Rio~Grande~Bridge,~0.8~mi~upstream~from~Denver~and~Rio~Grande~Bridge,~0.8~mi~upstream~from~Denver~and~Rio~Grande~Bridge,~0.8~mi~upstream~from~Denver~and~Rio~Grande~Bridge,~0.8~mi~upstream~from~Denver~and~Bridge,~0.8~mi~upstream~from~Denver~and~Bridge,~0.8~mi~upstream~from~Denver~and~Bridge,~0.8~mi~upstream~from~Bridge,~0.8~mi~upstream~from~Denver~and~Bridge,~0.8~mi~upstream~from~Bridge,~0.8~mi~upstream~from~Bridge,~0.8~mi~upstream~from~Bridge,~0.8~mi~upstream~from~Bridge,~0.8~mi~upstream~from~Bridge,~0.8~mi~upstream~from~Bridge,~0.8~mi~upstream~from~Bridge,~0.8~mi~upstream~from~Bridge,~0.8~mi~upstream~from~Bridge,~0.8~mi~upstream~from~Bridge,~0.8~mi~upstream~from~Bridge,~0.8~mi~upstream~from~Bridge,~0.8~mi~upstream~from~Bridge,~0.8~mi~upstream~from~Bridge,~0.8~mi~upstream~from~Bridge,~0.8~mi~upstre$ North Gate Boulevard, and 1.5 mi downstream from Beaver Creek.

DRAINAGE AREA.--81.7 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD .-- April 1985 to current year.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,640 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Storage and diversions upstream from station for municipal supply of Monument and Palmer Lake.

		. ,	DISCH	IARGE, CUBIO	C FEET PER		WATER YEAR MEAN VALUI		1996 TO SE	EPTEMBER 199)7	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	6.2 5.5 5.2 5.2 5.3	5.0 5.3 5.9 6.3 5.9	e4.9 e4.8 e4.5 e4.7 e4.9	4.6 4.4 4.5 4.6 e4.5	4.2 4.0 4.0 e4.5 e4.4	e6.7 6.5 5.7 4.2 e4.0	5.5 5.8 6.8 11	39 42 45 50 47	20 21 19 20 20	21 19 16 15	34 26 24 26 35	16 16 23 29
6 7 8 9 10	5.1 5.1 4.8 4.7 4.7	5.1 7.3 5.1 4.7 e4.8	5.1 6.4 6.4 4.6 4.8	e4.1 e3.8 e4.0 e4.4 e4.4	e4.6 e4.9 e5.2 e5.4 e5.4	3.6 3.6 3.3 3.4 3.3	13 13 11 5.7 5.8	45 56 64 65 59	29 117 106 117 124	8.9 8.6 8.2 5.8 5.6	36 37 37 31 32	26 25 21 19 15
11 12 13 14 15							e5.7 e5.7 5.9 6.6 9.8		104 90 91 99 87	5.7 5.5 5.1 5.3 5.9	35 28 28 19 11	12 12 7.4 7.3 7.7
16 17 18 19 20	4.9 5.8 4.4 4.4	e5.0 e5.4 e5.4 e5.2 e5.2	e4.2 e3.6 e3.4 e3.5 e4.0	e4.3 e4.3 e4.6 e5.0 e5.4	3.5 3.2 3.3 3.3	3.2 3.3 3.6 3.2 3.2	9.7 9.7 10 8.9 5.7	41 40 40 38 34	79 65 55 53 39	6.0 5.7 4.9 4.3 4.6	12 14 16 18 17	12 14 12 9.8
21 22 23 24 25	4.5 4.3 4.3 4.8 5.9	e5.4 5.5 5.4 5.3 5.2	e4.6 e4.8 4.8 e4.7 4.6	4.8 e5.0 4.9 e6.6 e5.4	e3.4 e3.3 3.4 4.2 e4.5	3.5 3.4 3.6 5.8 7.4	5.7 5.9 6.8 21 24	30 28 32 33 34	30 32 34 36 34	4.5 4.0 4.4 4.4	14 12 15 12	11 14 21 19 18
26 27 28 29 30 31	8.9 4.8 4.9 9.8 4.8 4.7	5.2 5.4 e5.0 5.2 5.3	e4.7 4.8 4.6 4.5 4.6 4.6	4.4 4.9 7.7 4.2 4.4 4.6	4.6 7.3 6.7 	9.5 11 7.4 7.8 7.2 5.3	29 29 30 26 29	33 31 33 28 25 20	30 24 16 11 14	5.2 6.2 13 17 46 53	20 35 52 48 47 42	17 15 14 11 7.9
TOTAL MEAN MAX MIN AC-FT		158.9			118.7 4.24	150.2	374.7 12.5 30 5.5 743	1249 40.3 65 20 2480	1616 53.9 124 11 3210	335.3 10.8 53 4.0 665	826 26.6 52 11 1640	471.1 15.7 29 7.3 934
STATIST	rics of M	ONTHLY ME	AN DATA F	OR WATER Y	EARS 1985	- 1997,	BY WATER Y	EAR (WY)				
MEAN MAX (WY) MIN (WY)	4.70 9.71 1986 .95 1990	5.48 9.37 1986 1.63 1990	4.69 9.00 1986 1.54 1990	4.22 9.51 1986 1.08 1990	4.56 8.85 1986 1.81 1990	7.63 14.8 1992 2.38 1991	20.5 46.2 1992 7.04 1989	40.6 105 1985 6.57 1989	23.7 60.4 1995 4.49 1989	9.03 30.6 1995 1.04 1989	7.29 26.6 1997 .90 1989	5.34 15.7 1997 1.16 1989
SUMMARY	STATIST	ICS	FOR	1996 CALEN	DAR YEAR	F	OR 1997 WAT	ER YEAR		WATER YEA	ARS 1985	- 1997
LOWEST HIGHEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	MEAN T ANNUAL M ANNUAL M T DAILY M DAILY ME SEVEN-DA TANEOUS P	EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		2633.8 7.20 48 a2.8 3.1 5220 14 5.3 3.7	May 29		5752.9 15.8 124 b3.2 3.3 169 5.13 11410 39 5.8 4.0	Jun 10 Feb 17 Mar 7 Jun 7 Jun 7		10.8 21.8 3.82 345 .58 .69 372 6.05 7840 27 5.5 1.8	Apr : Oct : Aug : Apr :	1995 1989 30 1985 15 1989 26 1989 30 1985 30 1985

e-Estimated.

b-Also occurred Aug 14. b-Also occurred Mar 11-13, 16, and 19-20.

07103780 MONUMENT CREEK ABOVE NORTH GATE BOULEVARD, AT U.S. AIR FORCE ACADEMY, CO--Continued WATER-QUALITY RECORDS

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

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

DATE	TIME	CUBIC FEET PER SECOND (SPE- CIFIC CON- DUCT- ANCE US/CM) 00095)	pH (STAND- ARD UNITS) (00400)	TEMPER ATURI WATER (DEG (E DIS R SOLV C) (MG/	S- ICA /ED 5 D /L) (MG	ND, FORM - FECA M- 0.7 L, UM-M AY (COLS /L) 100 M	I, TOCOC LL, FECA KF AG IF (COLS L) PER IL) 100 M	CI L, CALCI AR DIS S. SOLV (MG,	DIS- VED SOLVED /L (MG/L CA) AS MG)
OCT 22 NOV	1230	3.8	333	8.9	7.0	10.5	5 1.	1 K23	K12	30	5.0
20 DEC	1115	4.8	322	8.7	7.5	9.2	2 1.	0 к9	K8	26	4.4
11	1115	8.2	313	8.4	4.5	10.2	2 1.	1 K36	К8	26	4.6
JAN 22	1345	8.7	329	8.1	0.5	11.4	1 1.	8 K24	K12	26	4.5
FEB 19	1230	2.7	387	8.3	7.0	10.0) 1.	8	K4	30	4.9
MAR 19	1115	3.2	402	8.4	11.0		1.	4 90	<1	. 30	5.2
APR 23	1245	5.4	301	8.1	13.0		2.	1 K5	К9	25	4.1
MAY 28	1445	33	138	8.0	14.0	8.0	0.	8 K11	. 28	14	2.1
JUN 25	1045	35	147	7.8	18.0	7.5	5 0.	9 82	82	16	2.4
JUL 23	1230	4.5	340	8.6	25.0	7.0	1.	2 110	K350	28	4.5
AUG 13	1345	29	181	8.1	21.5	6.7	7 1.	4 K80	K18	18	2.7
SEP 17	1300	13	178	8.5	19.0	8.0	1.	2 K55	K55	19	2.9
DATE	(MC	TTY SULFA AB DIS- G/L SOLV G (MG/ CO3) AS SO	TE RI DI ED SO L (M	DE, RI S- I LVED SO G/L (I CL) AS	IDE, A DIS- I DLVED MG/L I S F)	RESIDUE FOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN,	AMMONIA	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 22	94	28	2	5	1.4	2	0.02	0.62	<0.015	0.4	0.87
NOV 20	83	25	2	4	1.6	<1	0.04	1.0	0.34	0.8	0.89
DEC 11	85	24	2	4	1.5	<1	0.02	0.68	0.18	0.6	1.1
JAN 22	81	29	2	4	1.4	24	0.01	2.0	0.15	0.5	1.2
FEB 19	96	37	3	3	1.1	10	0.02	1.3	0.16	0.8	1.3
MAR 19	107	34	3	4	1.4	6	<0.01	0.59	0.02	0.6	2.1
APR 23	82	26	2	1	1.5	6	0.02	0.928	<0.015	0.52	1.03
MAY 28	42	9.	7	5.4	1.6	16	<0.01	0.082	<0.015	0.21	0.143
JUN 25	45	10		5.9	1.7	38	<0.01	0.079	<0.015	0.37	0.134
JUL 23	86	29	2	4	1.4	2	0.018	1.2	0.02	0.54	1.02
AUG 13	54	11		9.3	1.5	18	<0.01	0.405	<0.015	0.35	0.249
SEP 17	60	9.	6	9.2	1.6	11	<0.01	<0.05	<0.015	0.27	0.248

K-Based on non-ideal colony count.

07103780 MONUMENT CREEK ABOVE NORTH GATE BOULEVARD, AT U.S. AIR FORCE ACADEMY, CO--Continued

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

DATE		ER TRD AL J/L CD)	CADMI DIS SOLV (UG, AS (MICUM TO' S- REG /ED ER. /L (UGCD) AS	RO- UM, TAL COV- ABLE G/L CR)	CHRO MIUN DIS- SOLV (UG, AS (D- MI M, HE - VAL /ED D /L (U CR) AS	RO- UM, XA- ENT, IS. G/L CR) 032)	COPP TOT REC ERA (UG AS	AL OV- BLE /L CU)	COPPE DIS- SOLV (UG/ AS C	REC ED ER L (UC U) AS	ON, TAL COV- ABLE G/L FE)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
OCT 22		<1	<1		<1	<1		<1		2	2		430	220
NOV 20		<1	<1		<1	<1		<1		2	2		300	140
DEC 11		<1	<1		<1	<1		<1		2	2		410	130
JAN 22		<1	<1		<1	<1		<1		4	3		880	35
FEB 19		<1	<1		<1	<1		<1		4	3		290	77
MAR 19		<1	<1		<1	<1		<1		3	2.	7	260	32
APR 23		<1	<1		<1	<1		<1		4	2.	4	270	81
MAY 28		<1	<1		<1	<1		<1		1	<1.	0	770	110
JUN 25		<1	<1		<1	<1		<1		1	<1.	0 :	1400	84
JUL 23		<1	<1		<1	<1		<1		3	3.	3	360	110
AUG 13		<1	<1		<1	<1		<1		2	1.	7	1000	87
SEP 17		<1	<1		<1	<1		<1		2	1.	5	620	110
	DATE	TO' RE ER. (U AS	AD, TAL COV- ABLE G/L PB) 051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	NE: TO' RE(ER) (U(AS	NGA- SE, TAL COV- ABLE G/L MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	TO RE ER (U AS	KEL, TAL COV- ABLE G/L NI) 067)	(UC	S- LVED G/L NI)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	SO:	IS- LVED G/L ZN)
OCT 2	? 22		<1	<1		40	36		2		1	<10	1)
NOV			<1	<1		40	31		2		1	<10	<	3
DEC 1	11		<1	<1		50	36		2		1	<10		5
	22		1	<1		130	54		3	:	2	20	1)
	9		<1	<1		60	38		3	:	2	10	1	3
	≀ _9		<1	. 1		56	44		3		2.5	10	< 1	3
APR 2			< T	<1		50			3		2.5			
	R 23		<1	<1		50	37		2		1.1	10		5.9
	R 23 28										1.1	10 <10	<.	
JUN 2	R 23 7 28 1		<1	<1		50	37		2	1	1.1			3
JUN 2 JUI 2	23 7 28 1 25		<1 <1	<1 <1		50 84	37 26		2 <1	<: <:	1.1	<10	<)	3
JUN 2 JUI 2 AUG	23 7 28 25 23		<1 <1 2	<1 <1 <1		50 84 120	37 26 40		2 <1 <1	<: <:	1.1 1 1 3.2	<10 <10	<) <)	3 3 5

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
				APR 1997				
1125	4.3	313	12.5	25	1635	30	225	7.0
1200	5.2	319	7.5		1320	47	133	15.5
0925	5.0	326	1.0	11	1400	102	112	15.5
				JUL				
1315	6.9	383	2.5	14	1410	4.2	246	26.0
				AUG				
1145	8.8	350	1.0	07	1205	41	183	18.5
				SEP				
1225	3.2	405	8.5	05	1440	29	185	22.5
	1125 1200 0925 1315 1145	CHARGE, INST. CUBIC FEET PER SECOND (00061) 1125 4.3 1200 5.2 0925 5.0 1315 6.9 1145 8.8	TIME CHARGE, INST. CIFIC CUBIC CON-FEET DUCT-PER ANCE SECOND (US/CM) (00095) 1125 4.3 313 1200 5.2 319 0925 5.0 326 1315 6.9 383 1145 8.8 350	TIME CHARGE, SPE- INST. CIFIC CUBIC CON- FEET DUCT- ATURE PER ANCE WATER SECOND (US/CM) (DGG C) (00061) (00095) (00010) 1125 4.3 313 12.5 1200 5.2 319 7.5 1200 5.2 319 7.5 1215 6.9 383 2.5 1145 8.8 350 1.0	CHARGE, SPE- INST. CIFIC CUBIC CON- FEET DUCT- ATURE PER ANCE WATER SECOND (US/CM) (DEG C) (00061) (00095) (00010) APR 1997 1125 4.3 313 12.5 25 MAY 1200 5.2 319 7.5 13 JUN 0925 5.0 326 1.0 11 JUN 1315 6.9 383 2.5 14 AUG 1145 8.8 350 1.0 07 SEP	CHARGE, SPE- INST. CIFIC CUBIC CON- FEET DUCT- ATURE PER ANCE WATER SECOND (US/CM) (DEG C) (00061) (00095) (00010) APR 1997 1125 4.3 313 12.5 25 1635 MAY 1200 5.2 319 7.5 13 1320 JUN 0925 5.0 326 1.0 11 1400 JUL 1315 6.9 383 2.5 14 1410 AUG 1145 8.8 350 1.0 07 1205 SEP	CHARGE SPE CHARGE INST. CIFIC CUBIC CUBIC CUBIC CUBIC CUBIC CUBIC CUBIC FEET DUCT ATURE ANCE WATER DATE TIME PER SECOND (00061) (000	CHARGE, SPE-

07103797 WEST MONUMENT CREEK BELOW RAMPART RESERVOIR, CO

 $LOCATION.--Lat~38^o58'30", long~104^o57'18", in~NE^1/4SE^1/4~sec. 26, T.12~S., R.68~W., El~Paso~County, Hydrologic~Unit~11020003, on~right~bank~0.1~mi~below~Wildcat~Gulch~and~0.5~mi~below~Rampart~Reservoir.$

DRAINAGE AREA.--7.29 mi².

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

GAGE.--Water-stage recorder and satellite telemetry. Elevation of gage is 8,710 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoir and transmountain diversions. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

			DISCH	IARGE, CUBI	C FEET PER		WATER YEAR MEAN VALU		1996 TO SI	EPTEMBER 1	997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3.9 3.3 3.5 3.5 3.5	4.9 4.8 4.8 4.8 4.9	4.5 4.5 4.4 4.5	4.1 4.1 4.1 4.1 4.0	4.6 4.5 4.5 4.5 4.5	4.7 4.7 4.7 4.7 4.7	4.3 4.2 4.4 4.4	5.5 5.3 5.3 5.9 6.8	5.2 5.3 5.2 5.1 5.2	4.8 4.7 4.7 4.7 4.8	5.7 8.3 8.5 6.7 5.7	6.9 6.9 7.2 7.4 7.3
6 7 8 9 10	3.5 3.4 3.3 e3.4 3.5	5.0 4.8 4.6 4.5 4.4	16 12 2.9 2.2 2.1	4.0 4.0 4.0 4.1 4.1	4.8 5.0 4.9 5.3 5.6	4.7 4.8 4.8 4.7 3.9	4.3 4.2 4.2 4.2	7.0 6.5 6.2 6.1 6.2	12 23 17 14 13	4.5 4.4 4.3 4.3 4.2	5.3 5.6 5.9 6.2 6.6	7.4 7.4 7.5 7.6 7.6
11 12 13 14 15	3.8 3.8 4.0 3.8 3.8	4.4 4.4 4.5 4.6	2.4 3.6 3.6 4.0 4.4	4.1 4.1 3.5 1.4 4.3	5.6 5.7 5.7 5.6 5.7	3.8 3.9 4.0 3.9 3.9	4.1 4.1 4.0 4.0	6.1 6.2 6.1 5.9 5.8	11 9.5 9.0 7.9 7.1	4.2 4.9 5.2 5.2 5.3	6.6 6.8 6.6 6.5	7.7 7.7 7.7 7.7 7.7
16 17 18 19 20	3.8 3.6 3.5 3.8 3.8	4.5 4.9 5.7 5.7 5.8	4.3 4.3 4.2 4.1 3.9	9.8 4.3 4.5 4.6 4.6	5.7 5.6 5.0 4.7 4.7	4.1 4.1 4.2 4.2 4.2	4.2 4.2 4.1 4.1	5.8 5.7 5.6 5.6 5.5	6.5 6.1 5.6 5.2 5.0	5.7 5.7 5.7 6.4 6.6	6.5 6.7 7.1 7.0 6.9	7.7 7.7 7.7 7.7 7.7
21 22 23 24 25	3.3 3.3 3.4 3.6 4.2	5.8 5.6 4.8 4.5	3.9 3.8 3.5 3.5 4.0	4.5 4.3 4.3 4.4 4.3	4.8 4.8 4.7 4.7	4.2 4.2 4.2 4.1 4.1	4.1 4.1 4.1 e4.2 4.3	5.4 5.7 5.6 5.5 5.4	5.9 5.9 5.4 5.8 5.3	6.5 6.4 6.3 6.5	6.8 6.7 6.7 6.6 6.9	7.8 7.9 7.0 5.4 4.7
26 27 28 29 30 31	4.1 4.1 4.1 4.1 4.3 4.9	4.5 4.5 4.5 4.5 4.5	4.0 4.0 4.0 4.0 4.0	4.3 4.3 4.4 4.4 4.5	4.6 4.7 4.6 	4.2 4.2 4.1 4.2 4.1 4.2	4.2 4.4 4.8 5.4 5.5	5.3 5.3 5.3 5.3 5.3	5.3 5.2 5.0 4.8 4.8	7.2 7.8 5.7 5.4 5.7	7.0 6.6 6.6 6.7 6.7	4.6 4.5 4.5 4.3 4.1
TOTAL MEAN MAX MIN AC-FT	115.9 3.74 4.9 3.3 230	145.4 4.85 5.8 4.4 288	145.7 4.70 16 2.1 289	133.8 4.32 9.8 1.4 265	139.9 5.00 5.7 4.5 277	132.5 4.27 4.8 3.8 263	128.9 4.30 5.5 4.0 256	178.5 5.76 7.0 5.3 354	231.3 7.71 23 4.8 459	169.6 5.47 7.8 4.2 336	205.8 6.64 8.5 5.3 408	205.0 6.83 7.9 4.1 407
							BY WATER	•				
MEAN MAX (WY) MIN (WY)	6.05 10.1 1995 3.74 1997	7.22 10.6 1995 4.85 1997	7.84 9.68 1994 4.70 1997	7.31 9.36 1996 4.32 1997	7.29 8.75 1996 5.00 1997	7.50 10.7 1994 4.27 1997	7.93 10.5 1996 4.30 1997	10.2 17.5 1996 5.76 1997	10.2 15.1 1996 7.71 1997	12.1 20.6 1994 5.47 1997	10.3 15.7 1994 6.64 1997	7.89 12.2 1994 5.62 1995
SUMMARY	Y STATIST	ICS	FOR	1996 CALEN	IDAR YEAR	F	OR 1997 WA	TER YEAR		WATER Y	EARS 1994	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT	MEAN F ANNUAL M F DAILY ME SEVEN-DA FANEOUS P FANEOUS P	EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE		3506.9 9.58 27 2.1 3.0	May 19 Dec 10 Dec 8		1932.3 5.29 23 1.4 3.0 a46 5.54	Jun 7 Jan 14 Dec 8 Jun 6		7.7 10.0 5.2 29 1.4 3.0 a46 5.5	Jul I Jan I Dec Jun	6 1997
10 PERC 50 PERC	RUNOFF (.CENT EXCE: CENT EXCE: CENT EXCE:	EDS EDS		6960 18 9.0 4.0			3830 7.2 4.7 3.9			5610 14 7.9 4.2		

e-Estimated.

a-From rating curve extended above 30 ft³/s.

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

LOCATION.--Lat 38°58'14", long 104°54'08", in SW1/4SW1/4 sec.28, T.12 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank 500 ft upstream from diversion to city of Colorado Springs water-treatment plant, 2.7 mi south of U.S. Air Force Academy chapel, and 4.4 mi upstream from mouth.

DRAINAGE AREA.--14.9 mi².

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

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 7,180 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, and those above 100 ft³/s which are poor. Natural flow of stream affected by trans-mountain diversions from Colorado River basin, storage reservoirs, and operation of water-supply system. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

Date	a roi Gag	ing Station	s section	or tills rep	ωτ.							
			DISCHA	ARGE, CUBI	C FEET PER		WATER YEAF MEAN VALU		1996 TO SI	EPTEMBER 19	997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.99 4.1 4.3 4.3	7.7 7.0 5.4 5.0 4.7	e.45 e.45 e.50 e.56 e.62	e.20 e.20 e.20 e.17 e.15	e.12 e.12 e.12 e.11 e.10	.31 .33 .31 .28 .29	3.5 3.9 4.0 4.2 4.2	3.8 3.7 3.4 4.0 5.6	4.1 3.9 3.7 3.4 3.2	6.6 5.4 3.7 3.5 3.4	1.8 1.6 1.5 1.5	1.4 1.3 1.3 1.3
6 7 8 9 10	4.3 4.3 4.3 4.2 4.3	4.6 5.0 4.9 5.0 5.1	.64 e.62 .64 .55 e.54	e.15 e.15 e.15 e.14 e.13	e.10 e.10 e.10 e.10	.30 .33 .34 .35	4.2 4.2 2.8 .76 .72	7.5 8.8 9.3 9.0 8.7	8.6 108 106 92 154	3.2 3.0 2.9 2.8 2.6	1.6 1.5 1.4 1.4	1.4 1.4 1.2 1.2
11 12 13 14 15	4.4 4.4 4.3 4.4	5.2 3.2 .86 .79 .74	e.50 .49 .49 e.44 e.35	e.12 e.10 e.09 e.09 e.09	e.10 e.10 e.11 e.12 e.13	1.3 4.2 4.0 4.3 4.7	.83 1.2 1.5 .61	8.6 8.7 8.3 8.3	109 63 53 42 31	2.6 2.5 2.4 2.3 2.2	1.5 1.8 2.2 1.6 1.5	1.2 1.1 1.1 1.0 1.0
16 17 18 19 20	4.4 5.2 7.4 8.6 8.6	e.68 e.66 .68 .74 .74	e.30 e.27 e.25 e.25 e.25	e.09 e.10 e.11 e.12 e.12	e.15 e.18 .20 .23 .24	5.7 5.8 1.9 .55	.63 .66 .68 .70	8.1 7.7 7.3 7.0 6.4	26 21 18 16 13	2.1 2.0 2.0 2.0 2.1	1.5 1.7 1.9 1.6 1.6	1.0 .96 .93 .95
21 22 23 24 25	8.8 9.6 9.8 8.9	.74 .75 .78 .74 e.68	e.22 e.19 e.17 e.17	e.12 e.12 e.12 e.12 e.12	.24 .24 .24 .26 .31	.55 .54 .54 .56	.85 .84 .93 1.3	6.1 6.2 6.0 5.6 5.3	11 11 10 10 9.4	2.0 1.9 1.8 1.7	1.5 1.4 1.4 1.3	1.1 1.2 1.4 1.2
26 27 28 29 30 31	8.7 8.6 8.6 8.4 8.0 7.9	e.54 e.47 e.47 e.47 e.47	e.17 e.17 e.17 e.17 e.17	e.12 e.12 e.12 e.12 e.12 e.12	.31 .31 .31 	.53 .56 .53 .54 .52	1.1 1.5 2.3 3.5 4.2	5.1 4.8 4.6 4.7 4.7	8.7 7.0 5.3 6.4 6.3	1.8 2.4 2.4 1.9 2.6 1.9	1.9 1.5 1.4 1.3	1.0 1.0 .96 .93 .91
MEAN MAX MIN AC-FT										81.5 2.63 6.6 1.7 162	48.1 1.55 2.2 1.3 95	34.04 1.13 1.4 .91 68
MEAN MAX (WY) MIN (WY)		1.18 7.74 1971 .000 1993					1.82 12.4 1971 .11 1989	YEAR (WY 6.26 30.5 1980 .20 1976		2.50 23.3 1970 .017 1993	2.58 23.8 1970 .000 1993	1.83 20.3 1970 .000 1993
SUMMAR							OR 1997 WA	TER YEAR		WATER YE	ARS 1970	- 1997
LOWEST HIGHES LOWEST ANNUAL	MEAN T ANNUAL ANNUAL M T DAILY M DAILY ME SEVEN-DA	IEAN IEAN LAN LY MINIMUM		505.38 1.38 9.8 e,a .17			1715.12 4.70 154 e,a.09	l		1.83 13.4 .10 154 .00 d ₁₆ 9		1971 1993 10 1997 29 1976 29 1976
INSTAN ANNUAL 10 PER 50 PER		PEAK FLOW PEAK STAGE AC-FT) PEDS PEDS PEDS			5		3.24 3400 8.6 1.4	: Jun 10		169 f3.24 1330 5.1 .46	Jun	10 1997

e-Estimated. a-Also occurred Dec 24-30.

b-Also occurred Jan 14-16. c-No flow many days during 1976, 1991-92. d-From rating curve extended above 68 ft³/s. f-Maximum gage height, 3.88 ft, Dec 22, 1983, backwater from ice.

07103970 MONUMENT CREEK ABOVE WOODMEN ROAD, AT COLORADO SPRINGS, CO

LOCATION.--Lat 38°56'02", long 104°49'00", in SW¹/4NE¹/4 sec.7, T.13 S, R.66 W., El Paso County, Hydrologic Unit 11020003, on right bank 0.1 mi upstream from Woodmen Road, 0.2 mi west of Interstate 25, and 0.5 mi upstream from Cottonwood Creek.

DRAINAGE AREA.--181 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder with satellite telemetry, concrete control, and crest-stage gage. Elevation of gage is 6,270 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and those above 400 ft³/s, which are poor. Natural flow of stream affected by runoff from industrial and residential areas of northeast Colorado Springs.

			DISCH	ARGE, CUB	IC FEET PEI	R SECOND, V DAILY	VATER YEA MEAN VALI		1996 TO SE	PTEMBER 1	997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e18	18	e12	15	11	17	13	60	28	36	79	37
2	e18	17	e12	15	11	16	17	64	30	34	46	31
3	e18	17	e12	15	10	15	15	67	29	27	49	36
4	e50	17	e12	15	11	12	19	77	30	23	75	42
5	e25	16	e12	e15	10	15	22	74	36	24	105	43
6	e22	16	14	e13	11	11	23	77	79	21	64	51
7	e19	17	e13	e12	12	10	22	98	352	19	56	43
8	e18	15	e12	e13	13	11	20	119	319	19	54	36
9	e17	14	12	e14	13	11	13	128	333	15	46	33
10	17	14	12	e14	12	11	13	128	417	15	60	31
11	17	15	13	e14	13	10	e15	84	334	16	91	23
12	19	14	12	e14	11	11	e16	91	300	16	93	25
13	20	12	12	e14	9.6	11	16	70	260	14	76	17
14	21	13	11	e14	13	10	e16	65	228	23	51	17
15	21	13	e11	e14	11	10	17	65	198	18	31	17
16	22	13	12	e14	11	10	17	62	168	17	33	20
17	20	e13	e11	e13	10	12	17	58	130	16	56	25
18	20	13	e10	e14	10	11	17	64	108	14	38	24
19	20	13	e10	e14	10	10	17	55	101	18	39	21
20	21	13	e10	e14	11	9.6	13	52	77	20	37	23
21	21	13	e10	14	11	9.7	22	49	54	17	32	25
22	22	12	e10	12	11	9.6	14	60	53	15	28	33
23	22	12	e11	13	10	9.6	20	48	71	15	31	40
24	23	12	e12	12	12	12	66	41	72	14	46	33
25	24	12	e12	11	14	14	56	46	60	15	42	29
26	26	12	e13	12	11	15	66	43	51	20	35	28
27	22	13	e14	11	13	21	71	38	43	37	39	26
28	20	e12	e15	13	15	15	66	38	34	46	63	25
29	23	e12	15	11		15	60	40	28	43	65	22
30	18	e13	15	12		15	51	36	25	90	65	17
31	17		14	12		12		30		101	73	
TOTAL	661	416	376	413	320.6	381.5	830	2027	4048	818	1698	873
MEAN	21.3	13.9	12.1	13.3	11.4	12.3	27.7	65.4	135	26.4	54.8	29.1
MAX	50	18	15	15	15	21	71	128	417	101	105	51
MIN	17	12	10	11	9.6	9.6	13	30	25	14	28	17
AC-FT	1310	825	746	819	636	757	1650	4020	8030	1620	3370	1730

SUMMARY STATISTICS	FOR 1997 WAT	ER YEAR
ANNUAL TOTAL ANNUAL MEAN HIGHEST DAILY MEAN	12862.1 35.2 417	Jun 10
LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS	a9.6 b596 6.38 25510 70 17	Feb 13 Mar 17 Aug 12 Aug 12

e-Estimated. a-Also occurred on Mar 20, and 22-23. b-From rating curve extended above 370 $\rm ft^3/s.$

07103970 MONUMENT CREEK ABOVE WOODMEN ROAD AT COLORADO SPRINGS, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--Daily sediment record May to September 1997 (peak flows only).

PERIOD OF DAILY RECORD.--Suspended-sediment discharge May to September 1997 (peak flows only).

INSTRUMENTATION.--Pumping sediment sampler since May 1997.

REMARKS .-- Records fair.

EXTREMES FOR PERIOD OF DAILY RECORD .--

SEDIMENT CONCENTRATIONS: Maximum daily mean during peak flows, 3,070 mg/L, June 7, 1997; minimum daily mean, 107 mg/L, Aug. 2, 1997.

SEDIMENT LOADS: Maximum daily during peak flows, 3,060 tons, June 7, 1997; minimum daily, 14 tons, Aug. 2, 1997.

EXTREMES FOR CURRENT YEAR .--

SEDIMENT CONCENTRATIONS: Maximum daily mean during peak flows, 3,070 mg/L, June 7; minimum daily mean, 107 mg/L, Aug. 2.

SEDIMENT LOADS: Maximum daily during peak flows, 3,060 tons, June 7; minimum daily, 14 tons, Aug. 2.

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	
MAY 12	1515	80	194	42
JUN 10	1100	374	1200	1210
JUL 29	0935	30	138	11
AUG 05 05	1215 2010	80 186	496 1280	107 643

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT					JUN				
04	1235	18	340	15.0	06	1320	33	239	21.0
NOV					10	1100	374	152	11.5
13	1040	13	386	5.0	17	1250	132	157	15.0
DEC					JUL				
06	1410	14	365	1.0	10	1250	17	306	22.5
JAN					29	0855	32	275	16.5
23	1410	14	375	0.5	29	0935	30	275	16.5
FEB					AUG				
25	1445	14	406	3.0	05	1215	80	218	17.5
MAR					07	0805	52	252	13.5
19	1505	10	383	15.5	SEP				
APR					02	1520	30	263	22.0
21	1640	105		9.0	18	1355	25	269	22.0
29	1230	55	295	12.5					
MAY									
12	1515	80	165	15.5					
12	1520	79	165	15.5					

07103970 MONUMENT CREEK ABOVE WOODMEN ROAD AT COLORADO SPRINGS, CO--Continued

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

		MEAN			MEAN			MEAN	
	MEAN DISCHARGE	CONCEN- TRATION	SEDIMENT DISCHARGE	MEAN DISCHARGE	CONCEN- TRATION	SEDIMENT DISCHARGE	MEAN DISCHARGE	CONCEN- TRATION	SEDIMENT DISCHARGE
DAY	(CFS)	(MG/L)	(TONS/DAY)	(CFS)		(TONS/DAY)	(CFS)		(TONS/DAY)
		OCTOBER		1	NOVEMBER		DE	CEMBER	
-	1.0								
1 2	e18 e18			18 17			e12 e12		
3	e18			17			e12		
4	e50			17			e12		
5	e25			16			e12		
6	e22			16			14		
7 8	e19 e18			17 15			e13 e12		
9	e17			14			12		
10	17			14			12		
11	17			15			13		
12	19			14			12		
13	20			12			12		
14 15	21 21			13 13			11 e11		
16 17	22 20			13 e13			12 e11		
18	20			13			e11 e10		
19	20			13			e10		
20	21			13			e10		
21	21			13			e10		
22	22			12			e10		
23 24	22 23			12 12			e11		
25	24			12			e12 e12		
26 27	26 22			12 13			e13 e14		
28	20			e12			e15		
29	23			e12			15		
30 31	18 17			e13			15 14		
31	Ι,						11		
TOTAL	661			416			376		
		JANUARY		1	FEBRUARY			MARCH	
1	15			11			17		
2	15			11			16		
3 4	15 15			10 11			15 12		
5	e15			10			15		
6 7	e13 e12			11 12			11 10		
8	e13			13			11		
9	e14			13			11		
10	e14			12			11		
11	e14			13			10		
12	e14			11 9.6			11		
13 14	e14 e14			13			11 10		
15	e14			11			10		
16	e14			11			10		
17	e13			10			12		
18	e14			10			11		
19 20	e14			10 11			10		
	e14			11			9.6		
21	14			11			9.7		
22 23	12 13			11 10			9.6 9.6		
24	12			12			12		
25	11			14			14		
26	12			11			15		
27	11			13			21		
28	13			15 			15 15		
29 30	11 12						15 15		
31	12						12		
TOTAL	413			320.6			381.5		
IOIAL	412			520.0			301.3		

e-Estimated.

07103970 MONUMENT CREEK ABOVE WOODMEN ROAD AT COLORADO SPRINGS, CO--Continued

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

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1 2 3 4 5	13 17 15 19 22		 	60 64 67 77 74	 	 	28 30 29 30 36		
6 7 8 9 10	23 22 20 13 13	 	 	77 98 119 128 128	 	 	79 352 319 333 417	1210 3070 1180 586 1380	791 3060 1070 543 1620
11 12 13 14 15	e15 e16 16 e16 17	 	 	84 91 70 65 65	 	 	334 300 260 228 198	663 579 556 	602 480 396
16 17 18 19 20	17 17 17 17 13	 	 	62 58 64 55 52	 	 	168 130 108 101 77	 	
21 22 23 24 25	22 14 20 66 56	 		49 60 48 41 46	1000 	217 	54 53 71 72 60	824 1170	362 301
26 27 28 29 30 31	66 71 66 60 51	 	 	43 38 38 40 36 30	 	 	51 43 34 28 25		
TOTAL	830			2027			4048		
		JULY			AUGUST		SI	EPTEMBER	
1 2 3 4 5	36 34 27 23 24	 	 	79 46 49 75 105	593 107 144 483 921	166 14 20 333 303	37 31 36 42 43	 	
6 7 8 9 10	21 19 19 15 15		 	64 56 54 46 60	492 147	91 42	51 43 36 33 31		
11 12 13 14 15	16 16 14 23 18	 763	 110	91 93 76 51 31	1000 922 1010 	331 759 266 	23 25 17 17	 	
16 17 18 19 20	17 16 14 18 20	 	 	33 56 38 39 37	636 	258 	20 25 24 21 23	 	
21 22 23 24 25	17 15 15 14 15	 	 	32 28 31 46 42	 	 	25 33 40 33 29	 	
26 27 28 29 30	20 37 46 43 90	621 212 604	169 e45 41 172	35 39 63 65 65	 	 	28 26 25 22 17	 	
31 TOTAL	101 818	427	130	73 1698			873		

e-Estimated.

07103980 COTTONWOOD CREEK AT WOODMEN ROAD NEAR COLORADO SPRINGS, CO

LOCATION.--Lat 38°56'22", long 104°44'26", in NE¹/₄NE¹/₄ sec.11, T.13 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on right bank, 100 ft downstream from Woodmen Road, 4.0 mi east of Interstate 25, and 5.0 mi upstream from mouth.

DRAINAGE AREA.--10.3 mi².

PERIOD OF RECORD .-- May 1992 to current year.

REVISED RECORDS.--WDR CO-93-1: Drainage area. WDR CO-96-1: 1995 (M)

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,680 ft above sea level, from topographic map.

REMARKS.--Records fair except for period Nov. 20 to Apr. 10, and estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.47 .38 .58 4.2 .56	.58 .63 .60 .68	.40 e.36 .31	1.5 1.4 1.1 1.1 e1.0	e1.1 e1.0 e1.0 e.98 e.94	3.6 3.7 1.2 e1.8 2.3	e.48 e.45 e.44 e.52 e.48	1.9 1.4 .60 .72 .85	.58 .61 .50 .62 6.4	.74 .55 .51 .67	8.4 .91 .79 12 26	.49 .43 .47 .74
6 7 8 9 10	.53 .67 .63 .70	.52 .57 .84 .98	.69 .74 1.2 .87 .80	e.70 e.50 e.60 e.64 e.70	e.84 e1.1 e1.1 e1.0 e1.2	e2.0 1.4 .79 e.75 e.75	e.46 e.46 e.44 e.45 e.45	.72 .85 .91 .47 .61 .83	24 22 11 15 30	.80 .47 .42 .52	4.4 .72 .54 .70 4.0	5.8 .52 .29 .29
11 12 13 14 15	1.2 1.3 .73 .67	.89 .80 .79	1.2 1.4 .96 1.2	e.60 e.50 e.48 e.54 e.80	e1.2 .87 .87 e1.2 .89	e.75 e.85 e.75 e1.4 e1.2	1.6 .80 1.5 .93 .20	1.4 3.0 e1.0 e.95 .87	22 12 26 4.9	.40 .29 .52 .68	17 22 2.7 .88 .57	.21 .20 .22 .17 .45
16 17 18 19 20	.65 .53 .47 .42 .74	.56 .60 .46 .37 e.41	e1.3 e1.2 e.60 e.55 .41	1.0 .99 e1.3 e1.1 e1.3	1.3 1.6 .89 .97 e1.3	.98 e.70 e.80 1.0 e.38	.26 e.38 e.40 e.40 e.55	e.00		.61 .52 .46 1.8 5.7	1.7 4.9 2.4 2.0 .94	.94 .80 .75 .64
24 25	1.2 1.0 .83	e.40 e.41 e.42	.66 .86 .79 .79 .61	e1.1 e1.1 .88 e1.1 e1.2	1.7 e1.4 e1.2 e1.2 e1.3	e.42 e.42 e.40 .74 3.3	3.5 .41 6.0 17 17	e1.3 e4.6 1.4 .71 .63	.74 .57 14 2.2 1.3	1.4 1.2 1.3 .99		2.3 9.0 1.9 1.2
26 27 28 29 30 31	1.1 2.8 1.6 .63 .74	e.50 1.3 1.1 .92 1.3	.37 .65 1.1 1.7 1.3	.72 e1.1 e1.2 e1.2 e1.1	e1.3 e1.4 e1.4	e.42 e.42 e.44 e.46 e.46	16 23 12 3.8 1.4	1.1 .54 .43 .93 .85	1.6 2.7 1.5 1.3 1.0	1.2 1.8 6.7 8.3 13	1.3 .71 .54 .63 .52	67
TOTAL MEAN MAX MIN AC-FT	30.78 .99 4.2 .38 61	20.35 .68 1.3 .37 40	26.63 .86 1.7 .31 53	29.65 .96 1.5 .48 59	32.25 1.15 1.7 .84 64	35.03 1.13 3.7 .38 69	111.76 3.73 23 .20 222	35.06 1.13 4.6 .43 70	216.00 7.20 30 .50 428	55.64 1.79 13 .29 110	137.93 4.45 26 .52 274	
STATIST		ONTHLY MEA					, BY WATER					
MEAN MAX (WY) MIN (WY)	1.26 2.59 1995 .35 1993	.71 .89 1996 .47 1993	.55 .86 1997 .33 1993	.52 .96 1997 .33 1994	.63 1.15 1997 .42 1994	.86 1.25 1994 .49 1995	1.49 3.73 1997 .50 1996	2.64 7.75 1995 .64 1993	3.51 8.85 1995 .49 1994	2.03 4.56 1995 .24 1994	2.38 4.45 1997 .66 1993	1.38 2.82 1995 .47 1992
SUMMARY	Y STATIST	ICS	FOR	1996 CALE	NDAR YEAR	1	FOR 1997 W	ATER YEAR	2	WATER Y	ZEARS 1992	- 1997
LOWEST HIGHEST	MEAN F ANNUAL : ANNUAL M F DAILY M	EAN EAN		583.2 1.5	9 May 25		765.34 2.10 30	0 Jun 10)	1.5 2.7 .6 42	74	1995 1993 2 1995
ANNUAL INSTANT ANNUAL 10 PERC 50 PERC	TANEOUS P	Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		1160 2.0 .6	7		. 24 419	7	1 3 2 2	C ₁₀₉₀ d _{5.1} 1150 2.4	1 52	23 1995 21 1995 19 1993 19 1993

e-Estimated.

e-BEINATEG.
a-Also occurred Feb 3.
b-Also occurred Jan 23, Feb 3, 1996.
c-From rating curve exteand nded above 1.1 ft³/s, on basis of slope-area measurement of peak flow.
d-From floodmarks.

07103990 COTTONWOOD CREEK AT MOUTH AT PIKEVIEW, CO

 $LOCATION.--Lat~38^o55'41", long~104^o38'35", in~SW^1/4SW^1/4~sec. 8, T.13~S, R.67~W., El~Paso~County, Hydrologic~Unit~11020003, on~left~bank~70~ft~upstream~from~Vincent~Drive~bridge,~0.3~mi~south~of~Woodmen~Valley~Road,~and~0.3~mi~upstream~from~mouth.$

DRAINAGE AREA.--18.7 mi².

PERIOD OF RECORD.--December 1985 to current year.

GAGE.--Water-stage recorder with satellite telemetry, and crest-stage gage. Elevation of gage is 6,265 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and those above 60 ft3/s, which are poor. Natural flow of stream affected by runoff from industrial and residential areas of northeast Colorado Springs. Several measurements of water temperature and specific conductance were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	9.9 7.9 8.5 28 6.5	5.2 5.8 6.1 6.1 6.7	6.3 5.2 2.9 3.4 3.5	5.7 5.5 5.6 4.6 4.7	7.6 7.3 6.9 7.3 6.8	7.5 4.9 4.9 5.0	5.3 6.8 4.8 6.0 5.3	6.3 5.6 6.8 5.0 6.1	7.0 6.6 6.7 5.8	7.0 6.7 7.5 7.1 6.7	14 13 8.5 30 40	6.8 5.6 6.5 7.4 6.0
6 7 8 9 10	6.9 7.5 7.4 6.1 6.5	6.9 6.4 6.5 4.5 5.5	4.4 4.3 4.6 5.1 5.5	e3.7 e3.1 e3.5 e3.7 3.8	4.4 7.0 6.4 5.6 7.8	4.4 4.7 5.1 5.3 5.1	4.9 4.6 4.4 5.0 4.5	7.4 7.1 8.0 5.6 6.8	26 43 23 37 96	7.6 7.0 6.8 6.6 6.3	9.9 11 9.5 9.4 12	17 5.4 4.7 5.0 5.8
11 12 13 14 15	6.5 7.2 6.8 6.2 6.7	6.3 5.6 6.4 8.8 9.4	5.0 5.4 4.9 4.8 5.1	e3.5 e3.3 e3.5 e4.0 4.8	7.7 7.0 7.7 7.7 7.5	4.9 4.8 5.0 4.7 4.4	4.4 3.8 3.3 4.0 4.2	7.2 8.3 6.4 6.4 5.9	9.2 28 19 36 12	6.6 6.7 6.2 6.1	31 43 13 6.7 8.1	6.6 6.1 5.5 6.1 4.7
16 17 18 19 20	7.2 7.3 7.8 7.8 8.9	8.5 6.5 10 11 9.3	4.9 3.3 e3.2 e3.4 3.8	4.6 5.2 5.6 6.5 5.1	6.6 7.3 7.4 7.8 7.5	4.5 4.3 4.1 4.5 4.1	4.6 4.1 4.3 4.4	5.8 5.9 10 6.6 6.9	9.9 8.9 9.2 10 8.9	5.9 5.8 5.8 7.8 8.7	7.7 9.4 9.8 8.8 7.7	4.5 4.4 4.6 4.8 6.6
21 22 23 24 25	8.7 7.3 6.7 6.0 6.9	9.1 8.7 8.6 8.0 7.3	3.6 3.5 3.6 3.4 4.2	4.7 4.6 4.7 5.9 7.4	7.5 6.7 4.4 4.2 5.6	4.2 4.2 4.1 6.0 5.2	10 4.5 13 24 20	8.5 28 6.3 5.8 6.4	8.3 7.8 22 8.4 8.0	6.4 6.1 7.0 7.1 6.6	7.6 9.5 7.3 9.8 16	8.7 13 6.4 4.5 4.5
26 27 28 29 30 31	7.3 8.9 6.5 5.9 5.4 5.3	6.5 6.4 6.7 7.1 5.5	4.5 4.9 4.7 5.0 5.8 6.1	7.6 6.9 8.3 7.0 8.4 8.0	4.1 5.1 5.0 	4.4 4.4 4.7 5.0 5.0 4.9	24 26 11 7.2 6.0	7.6 6.6 6.4 7.9 6.3 7.2	8.8 8.4 7.5 6.7 7.5	9.4 14 20 20 23 13	6.2 5.2 5.1 6.6 5.9 8.0	5.2 5.7 5.1 5.0 5.7
TOTAL MEAN MAX MIN AC-FT	242.5 7.82 28 5.3 481	215.4 7.18 11 4.5 427	138.3 4.46 6.3 2.9 274	163.5 5.27 8.4 3.1 324	183.9 6.57 7.8 4.1 365	149.3 4.82 7.5 4.1 296	238.8 7.96 26 3.3 474	231.1 7.45 28 5.0 458	505.6 16.9 96 5.8 1000	267.5 8.63 23 5.8 531	389.7 12.6 43 5.1 773	187.9 6.26 17 4.4 373
				OR WATER Y								
MEAN MAX (WY) MIN (WY)	5.16 9.59 1995 1.93 1987	4.57 7.18 1997 2.90 1987	3.80 6.76 1995 1.92 1992	3.90 5.30 1994 2.30 1987	4.32 6.57 1997 2.28 1990	5.31 11.1 1992 2.67 1991	5.06 7.96 1997 3.31 1989	7.24 19.5 1995 2.71 1986	8.62 26.4 1995 3.05 1990	7.64 16.8 1995 2.34 1992	7.64 12.6 1997 5.41 1993	5.56 9.86 1995 2.67 1986
SUMMARY	STATIST	ICS	FOR	1996 CALEN	DAR YEAR	F	OR 1997 WA	ATER YEAR		WATER YE	EARS 1986	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT	MEAN ANNUAL ME ANNUAL ME DAILY ME SEVEN-DA TANEOUS PE	EAN EAN AN Y MINIMUM		2391.2 6.53 69 2.8 3.3	Jul 26 Apr 20 May 13		2913.5 7.98 96 2.9 3.5 a ₆₃₈ 6.45	Jun 10 Dec 3 Dec 17 Aug 12		5.88 10.4 4.01 150 .01 b ₂₃₈₀	Jul Jul Jul Jun	1995 1989 1 1995 10 1989 5 1989 17 1993 26 1996
ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				4740 8.9 5.4 3.8			5780 10 6.4 4.4	5		4260 8.4 4.2 2.3		

e-Estimated.

a-From rating curve extended above 56 ft³/s on the basis of timed-drift measurement of flow. b-From rating curve extended above 60 ft³/s, on basis of culvert measurement of peak flow, gage height not determined. c-From flood mark, maximum gage height for flood of Jun 17, 1993 not determined.

07104000 MONUMENT CREEK AT PIKEVIEW, CO

LOCATION.--Lat 38°55'04", long 104°49'05", in NW1/4SE1/4 sec.18, T.13 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on right bank 0.1 mi west of Interstate 25, 0.9 mi downstream from Cottonwood Creek, and 1.3 mi downstream from Woodmen Valley

DRAINAGE AREA.--204 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to September 1949, January 1976 to current year.

REVISED RECORDS.--WDR CO-90-1: 1989 (M).

GAGE.--Water-stage recorder with satellite telemetry, and crest-stage gage. Datum of gage is 6,203.26 ft above sea level. Sept. 1938 to Oct. 1949, nonrecording gage at present site at datum 0.10 ft lower. Jan. 1976 to June 6, 1994 at present site, at datum 2.00 ft lower.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, municipal use and return flow from irrigation, and sewage-effluent discharge.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 30, 1935, reached a stage of about 14 ft, datum then in use, discharge unknown.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	21 25 24 64 35	31 29 27 27 27	e22 e21 e19 e19 e18	e18 e20 e19 e19 e18	e18 e20 e19 e19 e18	e24 e25 e24 e23 e23	16 26 22 23 30	63 68 72 81 85	39 42 38 34 38	40 40 36 34 34	86 65 57 97 126	53 38 45 56 59
6 7 8 9 10	26 28 27 21 22	29 29 30 26 27	e18 e17 17 20 19	e17 e14 e16 e16 e17	e17 e17 e17 e18 e18	e21 e20 e20 20 19	29 25 21 16 18	88 103 117 120 116	137 368 293 329 596	31 28 27 24 22	85 71 67 65 83	75 57 46 47 43
11 12 13 14 15	20 20 19 19 18	28 25 22 20 20	17 16 18 e16 e15	e18 e19 e17 e18 e19	e19 e18 e17 e18 e18	21 20 18 17 18	18 17 18 17 16	96 100 92 93 81	311 282 238 245 190	23 22 19 27 25	134 179 111 83 52	33 31 28 29 29
16 17 18 19 20	18 21 28 26 29	20 17 24 22 20	e15 e12 e13 e14 e15	e18 e17 e17 e17 e18	e18 e17 e16 e17 e16	19 16 16 15 14	17 18 19 20 18	71 81 86 74 75	172 154 130 120 104	22 21 20 25 33	46 74 66 63 57	33 40 32 29 36
21 22 23 24 25	34 29 28 29 29	19 18 16 17 17	e16 e18 e19 e20 e19	e18 e19 e18 e17 e17	e18 e17 e20 e21 e21	13 13 14 17 22	30 25 29 106 106	80 101 73 72 72	87 86 116 95 95	27 22 19 17 17	52 48 54 60 61	43 48 56 43 37
26 27 28 29 30 31	33 39 33 34 32 30	e17 e18 e19 e20 e21	e20 e21 e20 e20 e20 e19	e19 e18 e18 e18 e18 e18	e21 e22 e23 	22 24 22 21 20 18	103 133 109 82 62	73 70 74 68 61 47	83 68 47 36 32	27 44 73 66 108 97	57 58 74 80 84 86	37 36 34 32 29
TOTAL MEAN MAX MIN AC-FT	861 27.8 64 18 1710	682 22.7 31 16 1350	553 17.8 22 12 1100	550 17.7 20 14 1090	518 18.5 23 16 1030	599 19.3 25 13 1190	1189 39.6 133 16 2360	2553 82.4 120 47 5060	4605 154 596 32 9130	1070 34.5 108 17 2120	2381 76.8 179 46 4720	1234 41.1 75 28 2450
STATIST MEAN MAX (WY) MIN (WY)	18.1 82.8 1985 1.90 1940	NTHLY MEA 17.0 55.3 1985 4.27 1979	N DATA FO 14.5 30.2 1996 3.95 1979	13.2 26.8 1986 4.40 1979	14.2 28.7 1991 4.06 1940	- 1997, 20.7 46.2 1984 6.67 1944	45.4 259 1942 10.2 1978	YEAR (WY) 88.7 338 1947 12.7 1946	46.3 160 1995 5.20 1976	25.2 95.0 1995 2.01 1939	28.1 80.6 1945 1.11 1940	16.0 46.7 1985 1.74 1939
SUMMARY	STATISTI	CS	FOR 1	L996 CALEN	DAR YEAR	F	OR 1997 WA	TER YEAR		WATER YE	ARS 1939	- 1997
LOWEST HIGHEST LOWEST ANNUAL		AN AN N MINIMUM		10660.8 29.1 e ₈₅₀ 5.0 8.7	Aug 1 Aug 13 Aug 7		16795 46.0 596 e ₁₂ 14 a ₁₈₁₀	Jun 10 Dec 17 Dec 14 Aug 12		29.6 72.1 8.21 1140 .00 .21	Jul 2 Jul 2	1942 1978 11 1947 24 1939 20 1939 5 1981
INSTANT ANNUAL 10 PERC 50 PERC	ANEOUS PE RUNOFF (A ENT EXCEE ENT EXCEE ENT EXCEE	AK STAGE C-FT) DS DS		21150 39 23 15			9.58 33310 95 25 17	Aug 12		7.48 21430 59 17 4.6	_	5 1981

e-Estimated.

e-sstillated. aa-From rating curve extended above 850 ft^3/s , on basis of a slope-area measurement of peak flow of 1730 ft^3/s . b-From slope-area measurement of peak flow. c-Datum then in use, maximum gage height, 9.89 ft, Aug 19, 1996.

07104000 MONUMENT CREEK AT PIKEVIEW, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1975 to current year.

PERIOD OF DAILY RECORD.--Suspended-sediment discharge August 1995 to September 1997 for selected peak flows only (discontinued).

INSTRUMENTATION.--Pumping sediment sampler since August 1995.

REMARKS.--Records fair for selected peak flows.

EXTREMES FOR PERIOD OF DAILY RECORD .--

SEDIMENT CONCENTRATIONS: Maximum daily mean during selected peak flows, 4,710 mg/L, July 27, 1996; minimum daily, 203 mg/L, Aug. 14, 1996.

SEDIMENT LOADS: Maximum daily during selected peak flows, 3,420 tons, June 10, 1997; minimum daily mean, 38 tons, May 24, 1996.

EXTREMES FOR CURRENT YEAR .--

SEDIMENT CONCENTRATIONS: Maximum daily mean during selected peak flows, 2,800 mg/L, June 14; minimum daily mean, 333 mg/L, Aug. 10.

SEDIMENT LOADS: Maximum daily during selected peak flows, 3,420 tons, June 10; minimum daily, 95 tons, Aug. 10.

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)		pH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	DIS SOLV (MG/	DEM BI N, CH G- IC YED 5 (L) (M	GEN AND, O- EM- AL, DAY G/L) 310)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	CALCI DIS- SOLV (MG, AS (DIS- JED SOLVED /L (MG/L CA) AS MG)
OCT 22	1415	30	414	8.5	9.5	, 9	.2	1.0	>300	290	48	6.2
NOV 20	1315	21	486	8.5	10.0	8	.7	0.8	55	62	57	7.6
DEC 11	1330	15	473	8.4	7.0	9	.5	0.3	K43	75	56	7.7
JAN 22	1515	30	481	8.2	0.0	11	. 4	0.8	К35	120	55	7.1
FEB 19	1400	26	499	8.4	9.5	9	.2	0.4	K38	K28	60	7.5
MAR 19	1330	15	478	8.5	15.5	8	.1	0.6	K11	K180	54	7.3
APR 23 MAY	1445	21	412	8.4	15.0	-	-	1.0	K10	100	51	6.5
28 JUN	1330	74	244	8.1	14.0	7	.8	0.5	K40	K65	27	3.7
25 JUL	1230	85	253	8.0	19.5	7	.0	0.8	250	220	29	3.8
23 AUG	1345	18	463	8.5	27.5	6	.4	1.1	150	200	54	6.7
13 SEP	1445	100	324	8.1	21.5	6	.7	1.4	430	440	37	4.9
17	1415	38	352	8.4	21.0	7	.3	1.1	160	210	42	5.5
DATI	LIN I (N E A	AB D MG/L S AS (ACO3) AS	LFATE R. IS- D. OLVED SOMG/L (1 SO4) A	IDE, RIS- IOLVED SOMG/L (IOS CL)	LUO- TC IDE, AT DIS- DE OLVED S MG/L PE S F) (SIDUE TAL 105 G. C, US- NDED MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GE NO2+ DI SOI (MG AS	EN, G ENO3 AMM ES- D EVED SO EVED (M EVED AS	GEN, GEN IONIA MON DIS- ORC DLVED TO IG/L (N S N) AS	TTRO- I,AM- NIA + GANIC DTAL MG/L S N)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT 22	105	5	58	19	1.1	128	0.02	1.	9 <0	0.015	0.3	0.07
NOV 20	124	1	73	24	1.2	58	0.01	2.	5 0	0.02	0.4	0.10
DEC 11 JAN	117	7	72	23	1.2	100	0.02	2.	5 <0	0.015	0.3	0.11
22 FEB	115	5	72	29	1.1	282	<0.01	2.	9 0	0.03	0.4	0.13
19 MAR	120)	80	29	0.9	128	0.02	2.	9 0	0.02	0.2	0.16
19 APR	116	5	76	26	1.2	115	0.01	2.	4 <0	0.015	0.2	0.20
23 MAY	104	1	64	21	1.1	256	<0.01	1.	73 <0	0.015	0.48	0.176
28 JUN	63	3	29	11	1.5	114	<0.01	0.	692 <0	0.015	0.21	0.119
25 JUL	65	5	32	11	1.5	187	<0.01	0.	706 0	0.017	0.43	0.091
23 AUG	115	5	69	20	1.2	102	0.012			0.015	2.0	0.088
13 SEP	84	='		15	1.2	228	0.010	1.	07 0	0.018	0.60	0.102
17	94	1	46	17	1.2	70	<0.01	1.	41 <0	.015	0.33	0.150

K-Based on non-ideal colony count.

07104000 MONUMENT CREEK AT PIKEVIEW, CO--Continued

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

DA	TE	CADMIUM WATER JNFLTRD TOTAL (UG/L AS CD)	CADMI	S- REC YED ERA 'L (UC 'D) AS	JM, FAL COV- ABLE E/L CR)	CHRC MIUM DIS- SOLV (UG/ AS C	I, ED L R)	CHRC MIUN HEXA VALEN DIS (UG/ AS (M, A- NT, S. /L CR)	COPP TOT REC ERA (UG AS	AL OV- BLE /L CU)	COPPE DIS- SOLV (UG/ AS (- /ED /L CU)	IRO TOT REC ERA (UG AS	AL OV- BLE /L FE)	IRON DIS SOLV (UG, AS I	S- VED /L FE)
OCT 22		<1	<1		<1	<1			<1		4	1		2	500	15	5
NOV 20		<1	<1		<1	<1			<1		3	<1		2	000	1:	1
DEC 11		<1	<1		<1	<1			<1		3	<1		1	800	1	8
JAN 22		<1	<1		2	<1			<1		6	1		4	100	< 3	3
FEB 19	•	<1	<1		<1	<1			<1		4	1		2	100		3
MAR 19	•	<1	<1		<1	<1			<1		3	1		1	600	13	1
APR 23		<1	<1		<1	<1			<1		7	1		3	000	1	8.1
MAY 28		<1	<1		<1	<1			<1		3	<1		2	000	28	8
JUN 25		<1	<1		<1	<1			<1		4	1.	.1	3	000	1	1
JUL 23		<1	<1		<1	<1			<1		4	<2.	. 2	1	700	<:	3
AUG 13		<1	<1		1	<1			<1		5	1.	. 2	4	000	4	4.6
SEP 17	•	<1	<1		<1	<1			<1		5	3.	. 7	1	500	,	4.6
	DATE	T R E (A	EAD, OTAL ECOV- RABLE UG/L S PB) 1051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	NE TO RE ER (U	NGA- SE, TAL COV- ABLE G/L MN)	NES DI SOI (UC	IS- LVED F/L MN)	REG ERZ (UG AS	KEL, FAL COV- ABLE G/L NI) D67)	DI SO (U AS	KEL, S- LVED G/L NI) 065)	ZIN TOT REC ERA (UG AS	AL OV- BLE /L ZN)	ZING DIS SOL' (UG AS	S- VED /L ZN)	
	СТ 22		3	<1		90	21	L		2	<	1		10	4		
	ov 20		3	<1		80	29	9		2	<	1		10	<3		
	EC 11		3	<1		80	35	5		3		1		10	<3		
	AN 22 EB		8	<1		140	33	3		4	<	1		30	5		
	19 AR		3	<1		90	28	3		3		2.0		20	6		
	19 PR		3	<1		63	16	5		2		1.4		10	<3		
	23 AY		5	<1		130	18	3		4	<	1		20	<3		
	28 UN		3	<1		100	9	9.2		2	<	1		20	<3		
	25 UL		5	<1		110	6	5.2		2	<	1		20	<3		
	23 UG		2	<1		53	3	3.3		1		1.5		10	4	. 9	
	13 EP		9	<1		130	4	1.5		4	<	1		30	<3		
5.	17		1	<1		63	4	1.0		1		1.0		10	4	. 8	

07104000 MONUMENT CREEK AT PIKEVIEW, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DIS- CHARGE, SPE- INST. CIFIC CUBIC CON- FEET DUCT- DATE TIME PER ANCE WATER SECOND (US/CM) (DEG C) (00061) (00095) (00010)
OCT					JUN
09	1645	20		15.0	03 1035 37 315 17.0
NOV					06 1535 39 304 23.0
20	1505	20	503	8.5	09 1535 271 168 13.5
DEC					09 1545 276 168 13.5
09	1250	18	504	3.5	17 1320 152 203 16.5
JAN					JUL
23	1305	19	481	0.0	10 1110 23 425 19.5
FEB					31 0900 90 250 18.0
25	1330	36	503	2.5	31 0920 87 250 18.0
MAR					
20	0700	14	512	2.5	SEP
APR					05 1040 55 300 18.5
23	1255	21	413	14.5	
29	1400	74	350	14.5	
MAY					
08	1605	122	201	13.0	
09	1405	115	199	15.0	

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
MAY 08 JUN	1605	122	483	159
09 10	1545 1345	276 398	1530 1220	1140 1310
31 AUG	0900	90	498	121
05	1930	528	4250	6060

07104000 MONUMENT CREEK AT PIKEVIEW, CO--Continued

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

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER		I	NOVEMBER		DE	ECEMBER	
1	21			31			e22		
2	25			29 27			e21		
3 4	24 64			27			e19 e19		
5	35			27			e18		
6 7	26 28			29 29			e18 e17		
8	27			30			17		
9	21			26			20		
10	22			27			19		
11	20			28			17		
12	20			25			16		
13 14	19 19			22 20			18 e16		
15	18			20			e15		
16 17	18 21			20 17			e15 e12		
18	28			24			e12 e13		
19	26			22			e14		
20	29			20			e15		
21	34			19			e16		
22	29			18			e18		
23	28			16			e19		
24 25	29 29			17 17			e20 e19		
26	33			e17			e20		
27 28	39 33			e18 e19			e21 e20		
29	34			e20			e20		
30	32			e21			e20		
31	30						e19		
TOTAL	861			682			553		
		JANUARY		1	FEBRUARY			MARCH	
1	e18			e18			e24		
2	e20			e20			e25		
3	e19			e19			e24		
4 5	e19 e18			e19 e18			e23 e23		
							023		
6	e17			e17			e21		
7 8	e14 e16			e17 e17			e20 e20		
9	e16			e18			20		
10	e17			e18			19		
11	e18			e19			21		
12	e19			e18			20		
13	e17			e17			18		
14	e18			e18			17		
15	e19			e18			18		
16	e18			e18			19		
17 18	e17			e17			16 16		
19	e17 e17			e16 e17			15		
20	e18			e16			14		
21	e18			e18			13		
22	e19			e17			13		
23	e18			e20			14		
24 25	e17 e17			e21			17		
∠5	ET/			e21			22		
26	e19			e21			22		
27 28	e18 e18			e22 e23			24 22		
29	e18						21		
30	e18						20		
31	e18						18		
TOTAL	550			518			599		

e-Estimated.

07104000 MONUMENT CREEK AT PIKEVIEW, CO--Continued

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

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	16			63			39		
2	26			68			42		
3	22			72			38		
4 5	23 30			81 85			34 38		
J	30			0.5			30		
6	29			88			137	1100	1140
7	25			103			368	2490	2640
8 9	21 16			117 120			293 329	2060	e1430 1930
10	18			116			596	2000	3420
11	18			96			311	881	750
12 13	17 18			100 92			282	1690	1890
14	17			93			238 245	681 2800	452 2270
15	16			81			190		
16	17			71			172		
17 18	18 19			81 86			154 130		
19	20			74			120		
20	18			75			104		
0.7	2.0			2.2			0-		
21 22	30 25			80 101	667	 318	87 86		
23	25 29			73		318	116	1420	1320
24	106			72			95		
25	106			72			95		
0.6	100			7.2			0.2		
26 27	103 133			73 70			83 68		
28	109			74			47		
29	82			68			36		
30	62			61			32		
31				47					
TOTAL	1189			2553			4605		
		JULY			AUGUST		Q.	EPTEMBER	
		0011			AUGUDI		5.	EF I EMBER	
1	40			86			53		
2	40			65			38		
3 4	36 34			57 97	 978	 906	45 56		
5	34			126	1300	574	59		
6	31			85			75		
7 8	28 27			71 67			57 46		
9	24			65			47		
10	22			83	333	95	43		
							A -		
11	23			134	849	465	33		
12 13	22 19			179 111	1240	1990	31 28		
14	27			83			29		
15	25			52			29		
16	22			46			33		
17	21			74			40		
18	20			66			32		
19	25			63			29		
20	33			57			36		
21	27			52			43		
22	22			48			48		
23	19			54			56		
24	17			60			43		
25	17			61			37		
26	27			57			37		
27	44			58			36		
28	73	706	270	74			34		
29 30	66 108	892 1020	272 390	80 84			32 29		
31	108 97	1020	390	84 86			29 		
TOTAL	1070			2381			1234		

e-Estimated.

 $LOCATION.--Lat~38^o50'14", long~104^o49'44", in~NW^1/4NW^1/4~sec. 18, T.14~S., R.66~W., El~Paso~County, \\ Hydrologic~Unit~11020003~at~bridge~on~Bijou~Street~in~Colorado~Springs.$

PERIOD OF RECORD.--December 1979 to current year.

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

	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECONI (00061)	CIFI CON- DUCT ANCI O (US/O	IC - r- (S E CM) (pH STAND- ARD JNITS)	TEMPE ATUR WATE (DEG (0001	E D R SC C) (M	GEN, DIS- DLVED IG/L) (300)	OXYGE DEMAN BIO- CHEN ICAI 5 DF (MG/	ND, FC - FE M- 0. L, UM AY (CC /L) 100	DLI- DRM, CCAL, 7 I-MF DLS./ ML) .625)	STREP TOCOCC FECAL KF AGAI (COLS. PER 100 ML (31673	I , CALC R DIS SOI (MC) AS	CIUM S- LVED S S/L CA) A	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) 00925)
OCT 2:	2	1600	30	•	625	8.4	10	.5	9.0	1	L.2	140	24	0 69		12
NOV 20	0	1515	20		731	8.5	11	.0	8.8	(0.7	87	10	0 81		15
	1	1500	21		716	8.5	7	.0	9.6	(0.5	K48	9	7 86	:	15
	3	0930	19		765		0	.0	11.5	(0.1	67	K1	7 86		15
	9	1530	14		795	8.5	11	.0	8.9	(0.8	93	26	0 92		16
	9	1430	12	8	805	8.3	19	.5	7.1	(0.4	80	K25	0 86	:	16
APR 2: MAY	3	1600	24	6	548	8.4	14	.5		1	L.6	K43	13	0 73	•	13
	8	1515	59	3	376	8.2	19	.0	7.1	(0.6	200	12	0 40		6.7
	5	1415	72	1	367	8.2	23	.0	7.0	(0.7	K180	28	0 40		6.8
	3	1500	22	•	708	8.4	30	.0	6.5	1	L.2	270	19	0 80	-	15
	3	1545	67	4	436	8.2	23	.0	6.7	1	L.5	600	95	0 48		7.8
1'	7	1415	36	į	561	8.4	23	.0	7.0	1	L.5	230	21	0 64	:	11
	DATE	LIN I (M CA	AB I IG/L S AS (ACO3) AS	JLFATE DIS- SOLVED (MG/L 3 SO4)	CHLO- RIDE DIS- SOLVI (MG/I AS CI	, RI ED SC L (M L) AS	UO- DE, DIS- DLVED MG/L S F)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	GI NITI DI SOI (MO AS	IS- LVED G/L	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GH AMMO DI SOI (MO AS	EN, G ONIA M IS- O LVED ' G/L N)	NITRO- EN,AM- ONIA + RGANIC TOTAL (MG/L AS N)	PHOS- PHORUS ORTHO DIS- SOLVEI (MG/L AS P) (0067)	S O, D
	OCT 22	139	1	L30	25		1.3	152	. 0	.02	3.2	< 0	.015	0.5	0.0	5
	NOV 20	158	. 1	L60	28		1.4	36	<0	.01	4.0	0	.02	0.3	0.0	5
	DEC 11	153	. 1	L60	26		1.4	116	0	.02	4.2	0	.02	0.2	0.09	9
	JAN 23 FEB	156	. 1	L70	39		1.3	38	0	.01	4.2	0	.03	0.3	0.1	2
	19 MAR	159	1	L90	40		1.1	262	0	.03	4.7	< 0	.015	0.4	0.10	C
	19 APR	160	1 2	200	31		1.5	69	0	.01	4.5	< 0	.015	<0.2	0.1	2
	23 MAY	136	. 1	L50	27		1.2	368	0	.013	3.07	< 0	.015	0.79	0.1	34
	28 JUN	80	١	69	14		1.5	171	< 0	.01	1.52	< 0	.015	0.99	0.1	10
	25 JUL	82		65	13		1.6	167	< 0	.01	1.25	< 0	.015	0.52	0.08	30
	23 AUG	154	. 1	L60	24		1.4	86	0	.013	3.48	< 0	.015	0.39	0.0	52
	13 SEP	99	l	77	16		1.2	280	0	.011	1.63	< 0	.015	0.79	0.08	31
	17	127	' 1	L10	22		1.4	100	<0	.01	2.59	< 0	.015	0.37	0.1	11

K-Based on non-ideal colony count.

07104905 MONUMENT CREEK AT BIJOU STREET, AT COLORADO SPRINGS, CO--Continued

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

				** /	TER-QUA		DAIA, V	VAII.	IK ILA	ik oc	TOBL	IX 199	0 10 31	51 1 L51VI	DEK 1	221		
Ι	DATE	WA' UNFI TO' (UO AS	MIUM FER LTRD FAL G/L CD)	CADMI DII SOLI (UG AS (MI IUM TO' S- RE VED ER /L (U	RO- UM, FAL COV- ABLE G/L CR)	CHRO MIUN DIS- SOLV (UG/ AS (// - /ED /L CR)	CHR MIU HEX VALE DI (UG AS (010	M, A- NT, S. /L CR)	ERA (UC	CAL COV- ABLE E/L CU)	COPP DIS SOL (UG AS (010	- VED /L CU)	IROI TOTA RECO ERAI (UG AS I	AL OV- BLE /L FE)	IRON, DIS- SOLVE (UG/L AS FE	ED
OCT 22		<	1	<1		1	<1			<1		5	1		34	00	<3	
NOV 20		<	1	<1	<	1	<1			<1		4	2		17	00	<3	
DEC 11		<	1	<1		2	<1			<1		5	1		34	00	<3	
JAN 23		<	1	<1	<	1	<1			<1		2	2		9	80	<3	
FEB 19		<	1	<1		2	<1			<1		8	1		50	00	<3	
MAR 19		<	1	<1		2	<1			<1		3	1.	6	15	00	<3	
APR 23		<	1	<1		3	<1			<1		9	<1		61	00	<3	
MAY 28		<	1	<1		1	<1			2		5	<1		33	00	4.4	Ł
JUN 25		<	1	<1		2	<1			<1		5	1.	4	29	00	<3	
JUL 23		<	1	<1		1	<1			<1		3	1.	4	15	00	<3	
AUG 13		<	1	<1		2	<1			<1		9	3.	0	53	00	<3	
SEP 17		<	1	<1		1	<1			<1		10	6.	8	30	00	<3	
	1	DATE	TO RE ER (U AS	AD, TAL COV- ABLE G/L PB) 051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	NE TC RE EF (U AS	ANGA- ESE, DTAL ECOV- RABLE JG/L S MN)	NE D SO (U	NGA- SE, IS- LVED G/L MN) 056)	TO RE ER (U AS	KEL, TAL COV- ABLE G/L NI) 067)	DI SC (U AS	CKEL, SS- DLVED JG/L NI)	ZIN TOI REC ERA (UG AS (010	AL OV- BLE /L ZN)	ZIN DI SOL (UG AS (010	S- VED /L ZN)	
				4	<1		90		2		3	<	:1		20	<3		
				2	<1		40		3		3		1		10	<3		
				5	<1		100		4		5		2		20	4		
	JAN 23 FEB			1	<1		30		5		3		2		<10	<3		
				9	<1		150		3		6		2		30	<3		
	19			2	<1		39		3.8		2		1.4		10	<3		
	APR 23 MAY			9	<1		170		3.1		6	<	:1		50	<3		
				4	<1		120	<	1		3	<	:1		20	7	.5	
				4	<1		96		1.1		2	<	:1		20	<3		
				2	<1		52		3.0		1		1.4		20	6	.6	
				11	<1		160		1.1		5		1.0		30	<3		
				2	<1		74	<	1		2		1.0		20	<3		

07105000 BEAR CREEK NEAR COLORADO SPRINGS, CO

 $LOCATION.--Lat~38^o49'21'', long~104^o53'17'', in~NE^{1/4}NE^{1/4}~sec. 21, T.14~S., R.67~W., El~Paso~County, Hydrologic~Unit~11020003, on~left~bank, 30~ft~east~of~26th~Street, 0.1~mi~west~of~Colorado~Springs, 0.6~mi~southwest~of~Bear~Creek~Nature~Center, and 3.4~mi~southwest~of~Springs, 0.6~mi~southwest~of~Springs, 0.6~mi~southwes$ upstream from mouth.

DRAINAGE AREA.--6.89 mi².

PERIOD OF RECORD .-- May 1992 to current year.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,520 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, and those above 80 ft³/s which are poor. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

			DISCH	ARGE, CUBIO	C FEET PER S		VATER YEAR MEAN VALU		1996 TO SE	EPTEMBER 1	997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.9 2.7 2.6 2.5 2.5	1.9 2.1 2.0 1.9	1.9 1.9 1.8 1.8	e1.5 e1.4 e1.3 e1.2 e1.1	e1.4 e1.3 e1.2 e1.2	e1.2 e1.2 e1.2 e1.3 e1.3	e1.5 e1.4 1.4 1.4	9.2 8.6 7.5 7.4 7.2	4.7 4.8 4.6 4.4 4.7	7.3 7.3 7.7 7.2 7.0	6.3 6.5 6.2 6.3 8.2	5.5 5.3 4.9 6.4 9.9
6 7 8 9 10	2.4 2.3 2.3 2.2 2.1	1.9 1.8 1.8 1.9	1.9 1.8 1.8 1.9	e1.1 e1.1 e1.2 e1.2 e1.2	e1.2 e1.3 e1.3 e1.3	e1.2 e1.2 e1.2 1.2	1.4 1.5 1.6 1.6	9.3 10 9.3 8.5 7.8	5.4 9.0 8.2 17 81	6.7 6.2 5.9 5.8 5.6	10 11 11 10 10	7.7 6.8 6.8 6.6 5.1
11 12 13 14 15	2.1 2.0 2.0 2.0 2.0	1.9 1.9 1.9 1.9	1.8 1.8 1.9 1.8 e1.6	e1.1 e1.1 e1.1 e1.2	e1.4 e1.4 e1.3 e1.2 e1.3	1.2 1.3 1.3 1.2 1.3	1.5 1.5 1.6 1.6	7.4 7.0 6.8 6.6 6.5	54 39 31 27 23	5.6 5.4 5.2 5.2 5.2	9.0 8.2 7.8 7.4 6.7	4.6 4.2 3.5 3.2 3.1
16 17 18 19 20	1.9 1.9 2.1 2.3 2.4	1.8 1.8 1.9 1.9	e1.6 e1.5 e1.3 e1.3	e1.1 e1.1 e1.2 e1.2	e1.4 e1.5 e1.4 e1.3	1.4 1.4 1.4 1.5	1.5 1.5 e1.5 e1.3 e1.3	6.3 5.6 5.1 5.3 5.0	20 17 16 15 14	5.1 5.0 4.9 e4.8 e5.0	6.5 6.2 6.4 5.9 5.6	3.1 3.0 3.0 3.1 3.4
21 22 23 24 25	2.3 2.2 2.2 2.2 2.2	1.9 1.9 1.9 1.8	e1.3 e1.4 e1.4 e1.4 e1.5	e1.2 e1.3 e1.2 e1.2	e1.3 e1.2 e1.3 e1.1	1.5 e1.5 e1.5 e1.5 e1.3	e1.5 e1.7 e2.0 e2.5 e3.0	5.3 5.8 5.8 5.7 5.7		e5.1 5.1 4.8 4.7 4.8	5.3 5.1 4.9 4.8 5.0	3.2 3.2 3.4 3.4
26 27 28 29 30 31	2.0 2.0 2.0 1.8 1.9	1.8 1.9 1.9 1.9	e1.5 e1.4 e1.5 e1.5 e1.6	e1.2 e1.2 e1.1 e1.2 e1.2	e1.2 e1.2 e1.2 	e1.8 e1.9 e1.9 e1.8 e1.8	e5.0 e7.4 e7.8 e7.4 e9.4	5.6 5.4 5.2 5.3 4.9 4.7	10 9.8 9.3 8.8 8.0	4.8 5.2 5.6 5.4 6.3 5.8	4.9 4.1 4.1 3.9 4.3 5.4	3.3 3.2 3.2 3.1 3.1
TOTAL MEAN MAX MIN AC-FT	2.19 2.9 1.8 135	1.8 112	1.9 1.3 100	36.8 1.19 1.5 1.1	1.5 1.1 71	43.7 1.41 1.9 1.2 87	1.3 153	205.8 6.64 10 4.7 408	81 4.4 1010	175.7 5.67 7.7 4.7 349	207.0 6.68 11 3.9 411	131.7 4.39 9.9 3.0 261
							BY WATER					
MEAN MAX (WY) MIN (WY)	1.71 2.76 1995 .37 1993	1.44 2.38 1996 .14 1993	1.29 1.94 1996 .17 1993	1.14 1.76 1996 .30 1993	1.16 1.79 1996 .36 1993	1.29 1.84 1995 .52 1993	1.98 3.01 1994 .31 1993	8.19 18.9 1995 .87 1993	6.65 17.0 1997 .47 1993	3.26 7.55 1995 .30 1993	2.82 6.68 1997 .55 1993	2.22 4.39 1997 .30 1992
SUMMARY	STATISTI	CS	FOR 1	.996 CALEN	DAR YEAR	F	OR 1997 WA	TER YEAR		WATER Y	EARS 1992	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT	MEAN ANNUAL ME ANNUAL ME DAILY ME DAILY MEA SEVEN-DAY ANEOUS PE ANEOUS PE	AN AN N MINIMUM AK FLOW AK STAGE		668.84 1.83 5.5 .80	Jul 10 Jul 6			Jun 10 Jan 5		2.96 5.12 .41 81 .00 b_162 2.24	2 Jun 2 Sep 5 Nov Jun	1995 1993 10 1997 18 1992 7 1992 10 1997 10 1997
10 PERC 50 PERC	RUNOFF (A ENT EXCEE ENT EXCEE ENT EXCEE	DS DS		1330 2.3 1.8 1.3			3170 8.3 2.0 1.2			2140 6.0 1.7)	

e-Estimated.

e-sstillated. a-Also occurred Jan 6-7, 11-14, 16-18, 25, 28, and Feb 24-25. b-From rating curve extended above $80~{\rm ft}^3/{\rm s}$.

07105490 CHEYENNE CREEK AT EVANS AVENUE AT COLORADO SPRINGS, CO

LOCATION.--Lat 38°47'26", Long 104°51'49", SW¹/4NW¹/4 sec.35, T.14 S., R.67W., El Paso County, Hydrologic Unit 11020003, on right bank 23 ft upstream from Evans Avenue, 30 ft downstream from the confluence of North and South Cheyenne Creeks, and 3.1 mi upstream from the mouth.

DRAINAGE AREA.--21.7 mi².

PERIOD OF RECORD .-- April 1992 to current year.

REVISED RECORDS.--WDR CO-93-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,280 ft above sea level, from topographic map.

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

			DISCH.	ARGE, CUBI	C FEET PER S	ECOND, DAILY	WATER YEAI MEAN VALU	R OCTOBER : JES	1996 TO SI	EPTEMBER 19	997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	10 e9.8 e9.8 e9.4 e9.4	6.5 6.5 7.7 7.8 6.9	3.1 3.2 2.1 3.3 3.4	e3.3 3.4 4.1 3.9 2.0	3.1 3.1 3.0 2.8 2.9	2.7 2.7 2.7 2.9 2.9	3.4 3.5 3.3 3.9 4.5	49 42 34 33 44	28 31 30 30 29	31 27 25 24 23	35 35 34 34 43	16 15 15 15 15
6 7 8 9 10	e9.0 e6.9 e6.9 e7.8 e7.4	5.4 2.3 2.4 2.1 3.1	3.2 2.8 2.7 3.0 3.4	3.4 3.7 4.1 3.5 3.4	2.8 2.8 2.7 2.9 2.8	3.1 3.3 3.5 3.6 3.5	5.1 5.5 5.4 5.4 4.7	57 59 56 50 46	32 58 60 105 432	21 20 19 18 18	57 75 69 62 59	14 13 13 13
11 12 13 14 15	e7.4 e7.4 e7.4 e7.4 e7.4	4.9 5.5 5.6 5.6	3.4 3.4 3.4 3.0	e3.0 e2.1 e2.1 e2.2 e2.4	3.1 3.1 3.0 3.0 3.1	3.8 4.0 3.9 3.3 3.3	3.0 4.1 5.1 4.3 2.3	43 40 38 38 39	236 170 133 113 100	18 17 16 15 14	53 48 43 39 36	13 12 11 11
16 17 18 19 20	e7.1 6.7 6.5 6.5 6.3	5.3 3.9 5.7 5.1 4.5	3.4 1.5 1.7 2.1 2.4	e2.2 e2.1 e2.4 e2.8 e2.5	3.0 3.1 3.1 3.1 3.1	3.5 3.7 3.7 2.9 2.3	1.6 .88 1.2 2.2 4.0	40 40 40 44 45	98 93 90 87 79	14 13 12 21 25	34 31 30 28 27	9.6 9.2 9.1 8.9
21 22 23 24 25	5.3 5.5 6.7 6.5	3.8 3.7 4.2 3.2 3.8	2.1 2.4 e2.3 e2.1 e2.3	e2.3 e2.2 e2.4 e2.5 2.7	2.9 2.9 3.1 3.1	2.9 3.0 3.0 2.6 2.5	6.2 7.0 8.4 20 16	48 50 51 49 48	73 68 62 60 55	20 17 9.4 6.1 15	25 23 22 20 21	10 10 10 10 8.9
26 27 28 29 30 31	5.8 6.3 6.7 7.4 7.0 6.5	4.2	e2.6 e2.3 e2.7 e3.0 e2.8 e3.0	3.1 3.0 3.1 3.4 3.1	3.1 3.1 2.8 	3.3 3.5 3.6 3.3 3.0	18 19 27 45 56	46 43 40 38 32 25	51 48 46 42 37	17 17 22 25 45 36	22 19 17 17 16 16	8.3 8.3 8.2 8.4 8.3
TOTAL MEAN MAX MIN AC-FT	226.5 7.31 10 5.3 449	138.2 4.61 7.8 2.1 274	83.3 2.69 3.4 1.2 165	89.5 2.89 4.1 2.0 178	83.8 2.99 3.2 2.7 166	99.5 3.21 4.0 2.3 197	295.98 9.87 56 .88 587	1347 43.5 59 25 2670	2576 85.9 432 28 5110	620.5 20.0 45 6.1 1230	1090 35.2 75 16 2160	336.2 11.2 16 8.2 667
MEAN MAX (WY) MIN (WY)	4.48 7.31 1997 .73 1993	3.67 4.65 1996 .84 1993	2.67 3.84 1995 .46 1993	2.76 4.54 1996 .91 1993	2.59 3.64 1996 1.53 1993	3.03 4.39 1994 .53 1993	8.59 20.7 1994 .88 1993	39.9 86.4 1994 2.63 1996	37.8 93.1 1995 2.60 1993	11.7 30.5 1995 1.03 1993	12.0 35.2 1997 2.09 1993	6.17 11.2 1997 1.12 1993
SUMMARY	STATIST	rics	FOR 3	1996 CALEN	DAR YEAR	F	FOR 1997 W <i>P</i>	ATER YEAR		WATER YE	ARS 1992	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ANNUAL DAILY DAILY SEVEN-DA	MEAN MEAN EAN AY MINIMUM PEAK STAGE (AC-FT) EEDS EEDS		1820.60 4.97 a20 .86 1.2 3610 9.5 3.8 2.1			6986.48 19.1 432 .88 b_595 3.51 13860 48 6.7 2.6	Jun 10 3 Apr 17 Dec 15 Jun 10		12.4 21.8 1.44 432 .10 5595 3.51 9000 31 3.9 .84	Jun Apr Mar Jun Jun	1995 1993 10 1997 8 1993 6 1993 10 1997 10 1997

e-Estimated.

a-Also occurred Aug 30. b-From rating curve extended above 437 ft³/s.

07105500 FOUNTAIN CREEK AT COLORADO SPRINGS, CO

LOCATION.--Lat 38°48'59", long 104°49'20", in NE¹/4SW¹/4 sec.19, T.14 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on left bank 31 ft upstream from Nevada Avenue bridge in Colorado Springs, 100 ft downstream from mouth of Cheyenne Creek, and 1.3 mi downstream from mouth of Monument Creek.

DRAINAGE AREA.--392 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1921 to September 1924, January 1976 to current year. Monthly discharge only for some periods, published in WSP 1311. Statistical summary computed for 1976 to current year.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 5,900 ft above sea level, from topographic map. Prior to Oct. 1, 1972, nonrecording gage at same site at different datum.

REMARKS.--Records good except for estimated daily discharges and those above 1000 ft³/s, which are poor. Natural flow of stream affected by storage reservoirs, power developments, ground-water withdrawals, diversions for irrigation and municipal use, return flow from irrigated areas and discharges from sewage treatment plants.

DISCHARGE CURIC EEET DED SECOND WATER VEAR OCTORED 1006 TO SERTEMBER 1007

			DISCH	ARGE, CUBI	C FEET PER S	SECOND, V DAILY	VATER YEAR MEAN VALU	OCTOBER ES	1996 TO S	EPTEMBER 19	97	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	56	35	32	30	e34	28	240	163	135	162	132
2	71	54	36	34	29	35	50	224	153	130	137	126
3	72	55	29	33	28	34	33	e170	147	123	124	125
4	107	55	35	33	25	32	38	e127	143	123	239	164
5	77	53	37	25	26	32	44	e118	158	120	446	143
6	64	52	37	31	25	29	44	e150	632	111	262	193
7	63	49	32	24	25	27	42	252	1250	99	212	e178
8	63	49	32	36	e25	27	43	265	933	87	196	e150
9	61	45	40	42	e26	27	38	245	1390	84	184	e135
10	60	44	33	e41	e27	25	35	230	1990	77	208	e100
11	56	46	32	e40	29	26	33	215	1190	82	308	91
12	56	45	31	e38	27	27	36	259	1100	86	238	91
13	56	42	31	e37	26	28	37	222	1040	68	223	79
14	56	41	30	e39	26	28	33	209	819	72	160	78
15	55	42	24	e40	29	27	30	206	515	65	134	73
16	49	42	29	e39	28	29	34	202	539	61	124	78
17	48	37	14	e38	27	29	32	193	496	57	150	80
18	55	44	19	37	25	33	32	197	464	53	170	75
19	56	41	24	42	26	26	32	200	382	105	141	71
20	58	39	33	40	25	28	31	191	353	86	132	93
21 22 23 24 25	69 58 60 60	40 38 44 39 38	34 37 33 29 33	38 28 32 27 26	28 25 31 e31 e30	28 28 27 46 40	e51 e48 225 551 362	229 339 207 192 192	344 345 362 433 329	74 61 46 41 51	113 104 110 110 292	97 101 112 94 86
26 27 28 29 30 31	60 73 61 60 58 55	34 40 36 40 35	31 36 35 33 33	33 26 28 31 28 32	30 31 e32 	34 37 31 32 32 27	467 314 237 192 248	190 171 163 195 176 155	265 214 189 161 147	119 164 226 197 313 159	206 148 154 159 152 153	79 73 68 66 60
TOTAL	1928	1315	980	1050	772	945	3420	6324	16646	3275	5651	3091
MEAN	62.2	43.8	31.6	33.9	27.6	30.5	114	204	555	106	182	103
MAX	107	56	40	42	32	46	551	339	1990	313	446	193
MIN	48	34	14	24	25	25	28	118	143	41	104	60
AC-FT	3820	2610	1940	2080	1530	1870	6780	12540	33020	6500	11210	6130
MEAN	44.5	36.7	29.4	27.1	26.0	37.2	72.0	178	132	75.2	80.2	45.8
MAX	212	143	81.3	61.6	56.6	83.6	166	767	555	268	182	103
(WY)	1985	1985	1985	1985	1985	1985	1985	1980	1997	1995	1997	1997
MIN	10.6	11.4	11.8	5.12	6.27	11.4	14.8	23.5	16.3	12.9	20.9	7.98
(WY)	1978	1979	1979	1979	1979	1976	1978	1976	1976	1976	1993	1978
SUMMARY	STATISTI	CS	FOR	1996 CALEN	IDAR YEAR	F	OR 1997 WA	TER YEAR		WATER YE	ARS 1976	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN AN N MINIMUM AK FLOW AK STAGE C-FT) DS DS		20324 55.5 395 14 21 40310 86 43 29	May 26 Dec 17 Jul 2		45397 124 1990 14 24 4550 8.03 90040 242 56 28	Jun 10 Dec 17 Dec 13 Jun 10 Jun 10		67.4 155 23.2 1990 2.0 3.3 a ₁₀₁₀₀ b _{12.12} 48800 139 33 14	Aug 1 Jan Sep	1995 1978 10 1997 19 1978 3 1979 2 1994 2 1994

e-Estimated.

a-From slope-area measurement of peak flow.

b-From floodmark.

07105500 FOUNTAIN CREEK AT COLORADO SPRINGS, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1975 to current year. Daily sediment record August 1995 to current year (peak flows only).

PERIOD OF DAILY RECORD.--Suspended-sediment discharge August 1995 to current year (peak flows only).

INSTRUMENTATION.--Pumping sediment sampler since August 1995.

REMARKS.--Records for daily sediment during peak flows are fair.

EXTREMES FOR PERIOD OF DAILY RECORD .--

SEDIMENT CONCENTRATIONS: Maximum daily mean during peak flows, 8,520 mg/L, Aug. 2, 1996; minimum daily mean, 109 mg/L, June 12, 1996.

SEDIMENT LOADS: Maximum daily during peak flows, 39,800 tons, June 6, 1997; minimum daily, 9.4 tons, June 12, 1996.

EXTREMES FOR CURRENT YEAR .--

SEDIMENT CONCENTRATIONS: Maximum daily mean during peak flows, 6,230 mg/L, June 6; minimum daily mean, 344 mg/L, May 29.

SEDIMENT LOADS: Maximum daily during peak flows, 39,800 tons, June 6; minimum daily, 118 tons, June 5.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	(STAND- ARD UNITS)	ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	DEMAND, I BIO- I CHEM- (ICAL, I 5 DAY (((MG/L) 1	FORM, TOO FECAL, FI D.7 KF UM-MF (CO COLS./ I	AGAR D OLS. S PER (O ML) A	LCIUM IS- OLVED S MG/L S CA) A	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) 00925)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)
OCT 23	1045	60	532	8.3	4.5	11.4	0.7	K540	240 5	4 :	12	123
NOV 21	1045	40	622	8.4	5.5	11.4	0.7	K320	370 6	4	14	140
DEC 12	1030	30	683	8.2	1.5	11.6	e0.1	к390	180 7	3 :	17	146
JAN 23	1330	34	732	8.3	2.0	11.2	0.6	K20	89 7	6 :	17	148
FEB 20	1130	24	728	8.2	3.5	10.1	0.6	95	140 7	1 :	16	149
MAR 20	1030	36	580	8.2	9.0	9.8	1.2	K590	520 5	б :	12	122
MAY 01	1215	242	368	7.8	11.0	9.1	0.9	150	190 3	R	7.8	76
29 JUN	1230	154	275	7.8	11.5	8.9	0.7	230	200 2		5.5	61
26 JUL	1100	280	334	8.3	15.0	8.3	0.8	460	200 3	5	7.0	76
24	1130	42	622	8.2	22.5	7.0	0.9	K440	350 6	3	15	132
AUG 14	1100	164	340	8.0	16.0	7.8	2.0	560	1500 3	4	6.8	77
SEP 18	1230	77	463	8.2	19.5	7.5	E1.8	250	210 4	9 :	10	103
					RESID	UE NITRO	O- NITRO	- NITRO-	NITRO-	PHOS-		
DATE	SULF. DIS SOL' (MG AS S	- DIS VED SOL /L (MG O4) AS	E, RIDE - DIS VED SOLV /L (MG/ CL) AS F	E, S- SULFII YED TOTA 'L (MG/I F) AS S	TOTAL AT 10 DE DEG. L SUS- L PENDE) (MG/	GEN 5 NITRI C, DIS SOLVI D (MG/I L) AS N	GEN, FE NO2+NO3 DIS- ED SOLVEI L (MG/L) AS N)	GEN, 3 AMMONIA DIS- C SOLVED (MG/L AS N)	GEN,AM-	PHORUS ORTHO DIS- SOLVED (MG/L AS P) (00671	DI SOL (UG AS	M, S- VED /L SE)
DATE OCT 23	DIS SOL (MG AS S	ATE RID - DIS VED SOL /L (MG O4) AS 45) (009	E, RIDE - DIS VED SOLV /L (MG/ CL) AS F 40) (0095	E, S- SULFII ZED TOTA: L (MG/: F) AS S	TOTAL AT 10 DE DEG. L SUS- L PENDE:) (MG/2 5) (0053	GEN 5 NITRI C, DIS SOLVI D (MG/I L) AS N	GEN, TE N02+N0: DIS- DIS- ED SOLVEI (MG/L) AS N) 3) (00631	GEN, 3 AMMONIA DIS- C SOLVED (MG/L AS N)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHORUS ORTHO DIS- SOLVED (MG/L AS P)	, NIU DI: SOL' (UG AS :	M, S- VED /L SE)
OCT	DIS SOL' (MG AS S (009	ATE RID DIS VED SOL (MG O4) AS 45) (009	E, RIDE - DIS VED SOLV /L (MG/ CL) AS F 40) (0095	S- SULFII S- SULFII VED TOTA (L (MG/: F) AS S 50) (0074	TOTAL AT 10 DE GS. L SUS- L PENDE) (MG/2) 5) (0053	GEN 5 NITRI C, DIS- SOLVI D (MG/) L) AS N 0) (0061:	GEN, FE NO2+NO: - DIS- ED SOLVEI L (MG/L) AS N) 3) (00631	GEN, AMMONIA DIS- D SOLVED (MG/L AS N) (00608)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHORUS ORTHO DIS- SOLVED (MG/L AS P) (00671	, NIU DI: SOL' (UG AS :	M, S- VED /L SE) 45)
OCT 23 NOV	DIS SOL' (MG AS S (009	ATE RID DIS VED SOL (MG 04) AS 45) (009 23	E, RIDE - DIS VED SOLV /L (MG/ CL) AS F 40) (0095	E SULFII SE SULFII YED TOTA 'L (MG/' F) AS S 50) (0074	TOTAL AT 10 DEG. US-L SUS-L PENDE (MG/: 0053	GEN NITRI'C, DISS' SOLVID (MG/)L) AS N 0) (0061:	GEN, NO2+NO1 DIS- DIS- ED SOLVEI L (MG/L AS N) 3) (00631	GEN, AMMONIA DIS- D SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHORUS ORTHO DIS- SOLVED (MG/L AS P) (00671	, NIU DI: SOL' (UG AS :	M, S- VED /L SE) 45)
OCT 23 NOV 21 DEC 12 JAN	DIS SOL' (MG AS SI (009) 110 130	ATE RID DIS VVED SOLL (MG 04) AS 45) (009	E, RIDE - DIS VVED SOLV /L (MG/ CL) AS F 40) (0095	E. SULFI: JED TOTA: L (MG/: r) AS S 0 (0074 0 2 <0 0	TOTAL AT 10 DE DEG. 0 L SUS- L PENDE (MG/) (MG/) 5) (0053	GEN STRIFT OF ST	GEN, GEN, NO2+NO1 - DIS- ED SOLVEI L (MG/L) AS N) 3) (00631	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <0.015 <0.015	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 0.2 0.2	PHORUS ORTHO DIS- SOLVED (MG/L AS P) (00671 0.02 0.04	, NIU DI: SOL' (UG AS :	M, S- VED /L SE) 45)
OCT 23 NOV 21 DEC 12 JAN 23 FEB	DIS SOL' (MG AS SO (009 110 130 150	ATE RID DIS VED SOL (MG 04) AS 45) (009	E, RIDE - DIS VED SOLV /L (MG/ CL) AS F 440) (0095	E, SULFI: STOPP TOTA: (MG/: AS S 00) (0074: 0 2 <0 0 8	TOTAL AT 10 DE DEG. VSUS-L PENDE: (MG/: 5) (0053	GEN NITRI' C, DIS SOLVI D (MG/) L) AS N (0061: 75 0.0: 52 <0.0: 82 0.0: 22 0.0:	GEN, MO2+NO: - DIS- ED SOLVEI L (MG/L) 3) (00631 2 2.1 1 2.5 2 2.8 1 3.5	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <0.015 <0.015 0.02 0.03	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 0.2 0.2 0.3	PHORUS ORTHO DIS- SOLVED (MG/L AS P) (00671 0.02 0.04 0.06	, NIU DI: SOL' (UG AS :	M, S- VED /L SE) 45) 4 7
OCT 23 NOV 21 DEC 12 JAN 23 FEB 20 MAR	DIS SOLL (MG AS SI (009 110 130 150 160	ATE RID DIS VED CM (MG 04) AS 45) (009 20 23 28 35	E, RIDE - DIS VVED SOLV /L (MG/ CL) AS F 40) (0095	E. SULFII: JED TOTA: JED TOTA: L (MG/: P) AS S 0 (0074 0 2 <0 0 8 9	TOTAL AT 10 DE DEG L SUS-L PENDE (MG/) (0053	GEN NITRI' C, DIS- SOLVID (MG/) L) AS N (0061: 75 0.0: 52 <0.0: 82 0.0: 22 0.0: 38 0.0:	GEN, GEN, INC2+NO: DIS- DIS- SOLVEI L (MG/L) AS N) 3) (00631 2 2.1 1 2.5 2 2.8 1 3.5 2 3.2	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <0.015 <0.015 0.02 0.03 <0.015	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 0.2 0.2 0.3 0.3 <0.2	PHORUS ORTHO DIS- SOLVED (MG/L AS P) (00671 0.02 0.04 0.06 0.07	, NIU DI: SOL' (UG AS :	M, S- VED /L SE) 45) 4 5 7 7
OCT 23 NOV 21 DEC 12 JAN 23 FEB 20 MAR 20 MAY	DIS SOL' (MGG AS SI (009) 110 130 150 170 130	ATE RID DIS VED VIED (MG 04) AS 45) (009 20 23 28 35 30 23	E, RIDE DIS VVED SOLV /L (MG/ CL) AS F 40) (0095	E. SULFI: S- SULFI: FED TOTA: L (MG/: AS S 0) (0074: 0 2 <0 0 8 9 2	TOTAL AT 10 DE DEG. 0 L SUS- L PENDE (MG/C) (0053	GEN STATE OF	GEN, GEN, NO2+NO1 - DIS- ED SOLVEI L (MG/L) AS N) 3) (00631 2 2.1 1 2.5 2 2.8 1 3.5 2 3.2 1 2.3	GEN, AMMONIA DIS- D SOLVED (MG/L AS N) O (00608) <0.015 <0.015 0.02 0.03 <0.015 0.04	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 0.2 0.2 0.3 0.3 <0.2 <0.2	PHORUS ORTHO DIS- SOLVED (MG/L AS P) (00671 0.02 0.04 0.06 0.07 0.05	, NIU DI. SOL' (UG AS:) (011	M, S- S- VVED /L SE) 45) 4 5 7 7 6
OCT 23 NOV 21 DEC 12 JAN 23 FEB 20 MAR 20 MAY 01 29	DIS SOLL (MG AS SI (009 110 130 150 160	ATE RID DIS VED COMPAGE AT A S A S A S A S A S A S A S A S A S	E, RIDE DIS VED SOLV (MG/CL) AS F 440) (0095	E. SULFI: JED TOTA: L (MG/:) AS S 0 (0074) 0 2 <0 0 8 9 2 6	TOTAL AT 10 DE DEG. 0 L SUS- L PENDE: 0 (MG/) (MG/) 5) (0053	GEN NITRI' C, DIS- SOLVID (MG/) L) AS N (0061: 75 0.0: 52 <0.0: 82 0.0: 22 0.0: 38 0.0:	GEN, GEN, INC2+NO. - DIS- ED SOLVEI L (MG/L) AS N) 3) (00631 2 2.1 1 2.5 2 2.8 1 3.5 2 3.2 1 2.3 1 1.18	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <0.015 <0.015 0.02 0.03 <0.015 0.04 <0.015	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 0.2 0.2 0.3 0.3 <0.2	PHORUS ORTHO DIS- SOLVED (MG/L AS P) (00671 0.02 0.04 0.06 0.07	, NIUI DI. SOL' (UG AS:) (011	M, S- VED /L SE) 45) 4 5 7 7
OCT 23 NOV 21 DEC 12 JAN 23 FEB 20 MAR 20 MAY 01 29 JUN 26	DIS SOL' SOL' (MGG AS SI (009) 110 130 150 170 130 62	ATE RID DIS VED VID VID SOL (MG 04) AS 45) (009 20 23 28 35 30 23 21 10	E, RIDE OTS SOLVA (MG/CL) AS F (40) (0095	E. SULFI: SULFI: FED TOTA: (L (MG/: P) AS S 60) (0074: 0 2 <0 0 8 9 2 6 6 <0	TOTAL AT 10 DE DEG. 0 L SUS- L PENDE (MG/C) (0053	GEN NITRI' C, DIS- SOLVID (MG/1 L) AS N (0061: 75 0.03 52 <0.03 82 0.03 82 0.03 94 0.03 70 <0.03	GEN, MO2+NO NO2+NO DIS- SOLVEI L (MG/L) AS N) 3) (00631 2 2.1 1 2.5 2 2.8 1 3.5 2 3.2 1 1.18 1 0.82	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <0.015 <0.015 0.02 0.03 <0.015 0.04 <0.015	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 0.2 0.2 0.3 0.3 <0.2 <0.2 0.55	PHORUS ORTHO DIS- SOLVED (MG/L AS P) (00671 0.02 0.04 0.06 0.07 0.05 0.06	, NIU DI. SOL! (UG AS:) (011	M, S- VED /L SE) 45) 4 5 7 7 6
OCT 23 NOV 21 DEC 12 JAN 23 FEB 20 MAR 20 MAY 01 29 JUN 26 JUL 24	DIS SOL' (MGG AS SI (009) 110 130 150 170 130 62 44	ATE RID DIS VED VID SOL (MG 04) AS 45) (009 23 28 35 30 23 21 10 13	E, RIDE DIS SOLV (MG/CL) AS F 440) (0095	E, SULFI: SULFI: FED TOTA: (MG/: AS S 00) (0074) 0 2 <0 0 8 9 2 6 6 <0 2	TOTAL AT 10 DE DEG. SUS-L PENDE: (MG/: 5) (0053	GEN NITRI' C, DIS SOLVI D (MG/) L) AS N (0061: 75 0.0: 52 <0.0: 82 0.0: 82 0.0: 38 0.0: 94 0.0: 70 <0.0: 31 <0.0:	GEN, GEN, INC2+NO. - DIS- ED SOLVEI L (MG/L)) AS N) 3) (00631 2 2.1 1 2.5 2 2.8 1 3.5 2 3.2 1 2.3 1 1.18 0.82 1 1.16	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <0.015 0.02 0.03 <0.015 0.04 <0.015 4 <0.015	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 0.2 0.2 0.3 0.3 <0.2 <0.2 2.2 0.3	PHORUS ORTHO DIS- SOLVED (MG/L AS P) (00671 0.02 0.04 0.06 0.07 0.05	, NIU DI. SOL! (UG AS:) (011	M, S- VED /L SE) 45) 4 5 7 7 6 2 2
OCT 23 NOV 21 DEC 12 JAN 23 FEB 20 MAR 20 MAY 01 29 JUN 26 JUL	DIS SOL' (MG AS SI (009) 110 130 150 170 130 62 44 54	ATE RID DIS VED VID VID SOLUTION (MG 04) AS 45) (009 20 23 28 35 30 23 21 10 13 23	E, RIDE DIS SOLV (MG/CL) AS F 440) (0095	E. SULFI: SILFI: STORM L (MG/: AS S 00) (0074: 0 2 <0 0 8 9 2 6 6 <0 2 4	TOTAL AT 10 DE DEG L SUS-L PENDE: (MG/: 5) (0053	GEN NITRI' C, DIS- SOLVID (MG/) L) AS N (0061: 75 0.0: 52 <0.0: 82 0.0: 38 0.0: 94 0.0: 70 <0.0: 31 <0.0: 07 <0.0:	GEN, GEN, TO2+NO1 - DIS- ED SOLVEI (MG/L) AS N) (00631 2 2.1 1 2.5 2 2.8 1 3.5 2 3.2 1 1.18 1 0.82 1 1.16 15 2.45	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <0.015 <0.015 0.02 0.03 <0.015 0.04 <0.015 <0.015 <0.015	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 0.2 0.3 0.3 <0.2 <0.2 0.3 0.3	PHORUS ORTHO DIS- SOLVED (MG/L AS P) (00671 0.02 0.04 0.06 0.07 0.05 0.06 0.04 0.04 0.04	, NIU DI. SOL! (UG AS:) (011	M, S- VED /L SE) /45) 4 5 7 7 6 2 2

e-Estimated.

K-Based on non-ideal colony count.

07105500 FOUNTAIN CREEK AT COLORADO SPRINGS, CO--Continued

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

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, TOTAL RECOV- ERABLE (UG/L AS B) (01022)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIU DIS- SOLVE (UG/L AS CD	REC D ERA (UC) AS	JM, FAL COV- ABLE G/L CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) 01030)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR) (01032)	COPPER TOTAL RECOV ERABL (UG/L AS CU (01042	COPP: - DIS E SOL' (UG	- REC VED ERA /L (UG CU) AS	AL OV- BLE /L FE)
OCT 23					<1	<1		<1	<1	<1		3 <1	1	800
NOV 21	<1	<1	70	70	<1	<1		<1	<1	<1		2 1	1	400
DEC 12 JAN					<1	<1		1	<1	<1		3 1	1	700
23 FEB					<1	<1		2	<1	<1		4 1	3	100
20 MAR					<1	<1		1	<1	<1		4 1	2	700
20 MAY					<1	<1		5	<1	<1	1	0 <1	7	500
01 29	 <1	 <1	 40	 31	<1 <1	<1 <1		4 1	<1 <1	<1 <1		7 1 3 <1		100 400
JUN 26					<1	<1		1	<1	<1		4 1	.0 3	100
JUL 24					<1	<1		<1	<1	<1		3 1	.3	990
AUG 14 SEP					<1	<1		1	<1	<1		5 2	.1 3	400
18					<1	<1		<1	<1	<1		2 <1	1	200
DAT	IRO DI SOL E (UG AS (010	S- REC VED ERA J/L (UG FE) AS	AL LEA OV- DI BLE SOI /L (UC PB) AS	MAN NES AD, TOT IS- REC LVED ERA S/L (UG PB) AS 1049) (010	E, MAI AL NES OV- D: BLE SOI /L (UC MN) AS	SE, TO SE RELIEVED EN SE RELIEVE EN SE RELIEVED EN SE RELIEVE EN SE RELIEVE EN SE	CKEL, OTAL ECOV- RABLE UG/L S NI) 1067)	NICKEL DIS- SOLVE (UG/L AS NI (01065	DI SD SOL (UG	M, TO: S- REG VED ERA /L (UG SE) AS	TAL Z COV- ABLE S E/L (ZN) A	OLVED UG/L .S ZN)	CYANIDE TOTAL (MG/L AS CN) (00720)	
OCT 23	<	:3	2 <	L	70 23	3	2	<1		4	10	<3		
NOV 21 DEC	<	:3	2 <	L	70 25	5	2	<1		5	10	<3	<0.01	
12 JAN	<	:3	3 <	L	80 32	2	3	2		7	20	<3		
23 FEB	<	:3	5 <	L	100 2	L	4	<1		7	20	<3		
20 MAR					110 0			-		-	20	10		
	<	:3	4 <	L	110 28	3	4	1		7	20	10		
20 MAY		:3	4 <17 <1		230 1		7	<1		6	60	<3		
MAY 01 29	<			L L	230 14 270 8									
MAY 01 29 JUN 26	<	3 4.7	17 <1 21 <1	L L	230 14 270 8	3 . 1 7 . 4	7 5	<1 <1		6	60 40	<3		
MAY 01 29 JUN 26 JUL 24	<	4.7 6.0	17 < 21 < 3 4 < 3	L L L	230 14 270 8 110	1 3.1 7.4	7 5 2	<1 <1 <1		6 2 2	60 40 20	<3 3.6 9.0	 <0.01	
MAY 01 29 JUN 26 JUL	<	4.7 6.0 5.6	17 < 21 < 24 < 26 < 26 < 27 < 27 < 27 < 27 < 27 < 27		230 14 270 8 110 7 140 20	1 3.1 7.4	7 5 2 1	<1 <1 <1 <1		6 2 2 2	60 40 20 30	<3 3.6 9.0 3.2	 <0.01 	

07105500 FOUNTAIN CREEK AT COLORADO SPRINGS, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT					MAY				
02	1430	73	540	14.5	06	1655	243	292	12.5
NOV					09	1230	250		12.5
22	1605	38	715	9.0	20	1500	193	306	18.5
DEC					23	1430	185		14.5
24	1340	31	736	0.5	23	1530	190	325	14.5
JAN					JUN				
22	1445	27	828	3.0	06	1355	141	390	20.0
FEB					07	1145	930		14.0
11	1355	25	810	7.0	07	1150	866	238	14.0
MAR					17	1715	461	265	16.5
05	1415	25	850	8.0	JUL				
APR					02	1520	134	493	21.0
15	1330	29	600	16.0	29	1240	120		18.5
22	1220	55	583	13.0	29	1300	120	505	18.5
25	1330	364	430	4.5	AUG				
28	1400	295	390	13.0	13	1400	182	430	21.0
					SEP				
					10	1450	99	533	22.5

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)		SUS- PENDED (T/DAY)
MAY				
09	1230	250	594	401
23	1430	185	482	241
JUN				
07	1145	930	3030	7610
10	1630	1330	4310	15500
JUL				
29	1240	120	143	46
AUG	2045	477	2470	4470
05	2045	477	3470	4470

07105500 FOUNTAIN CREEK AT COLORADO SPRINGS, CO--Continued

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

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER		1	NOVEMBER		DE	ECEMBER	
1	71			56			35		
2	71 72			54 55			36 29		
4	107			55			35		
5	77			53			37		
6	64			52			37		
7	63			49			32		
8 9	63 61			49 45			32 40		
10	60			44			33		
11	56			46			32		
12	56			45			31		
13	56			42			31		
14 15	56 55			41 42			30 24		
13	33			72			24		
16	49			42			29		
17 18	48 55			37 44			14 19		
19	56			41			24		
20	58			39			33		
21	69			40			34		
22	58			38			37		
23	60			44			33		
24 25	60 60			39 38			29 33		
26	60			34			31		
27 28	73 61			40 36			36 35		
29	60			40			33		
30 31	58 55			35			33 33		
31	55						33		
TOTAL	1928			1315			980		
		JANUARY		1	FEBRUARY			MARCH	
1	32			30			e34		
2	34			29			35		
3 4	33 33			28 25			34 32		
5	25			26			32		
6	31			25			29		
7	24			25 25			29 27		
8	36			e25			27		
9 10	42			e26			27 25		
10	e41			e27					
11	e40			29			26		
12 13	e38 e37			27 26			27 28		
14	e39			26			28		
15	e40			29			27		
16	e39			28			29		
17	e38			27			29		
18 19	37 42			25 26			33 26		
20	40			25			28		
21 22	38 28			28 25			28 28		
23	32			31			27		
24	27			e31			46		
25	26			e30			40		
26	33			30			34		
27 28	26 28			31 e32			37 31		
28 29	28 31			e32			31		
30	28						32		
31	32						27		
TOTAL	1050			772			945		

e-Estimated.

07105500 FOUNTAIN CREEK AT COLORADO SPRINGS, CO--Continued

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

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	28			240			163		
2	50 33			224 e170			153 147		
4	38			e127			143		
5	44			e118			158		e118
6	44			e150			632	6230	39800
7 8	42 43			252 265			1250 933	3570 2030	13500 6100
9	38			245			1390	2860	12200
10	35			230			1990	5400	32300
11 12	33 36			215 259			1190 1100		
13	37			222			1040	446	1290
14 15	33 30			209 206			819 515	1790	4900
16 17	34 32			202 193			539 496		
18	32			197			464	1440	1870
19	32			200			382		
20	31			191			353		
21 22	e51 e48			229 339	1170 1800	1100 2630	344 345		
23	225			207	593	340	345		
24	551			192			433		
25	362			192			329		
26	467			190			265		
27 28	314 237			171 163			214 189		
29	192			195	344	239	161		
30 31	248			176 155			147		
TOTAL	3420			6324			16646		
		JULY			AUGUST		SE	EPTEMBER	
1	135			162	612	335	132		
2	130			137			126		
3 4	123 123			124 239	643	1280	125 164	649	
5	123			446	1460	2750	143		664
6	111			262			193	1140	1220
7	99			212			e178	1140	1220
8	87			196			e150		
9 10	84 77			184 208	393	257	e135 e100		
11	82			308	1770	2650	91		
11 12	82 86			238	1430	2980	91 91		
13	68			223	821	799	79		
14 15	72 65			160 134			78 73		
16	61			124			78		
17	57			150	381	256	80		
18 19	53 105	393	239	170 141			75 71		
20	86		239	132			93		
21	74			113			97		
22	61			104			101		
23	46			110			112		
24 25	41 51			110 292	1150	2300	94 86		
26	119	999	636	206	470	368	79		
27	164	594	683	148	470	368	73		
28 29	226 197	885	775 552	154 159			68 66		
29 30	313	560 1660	553 2250	159			66 60		
31	159	455	270	153					
TOTAL	3275			5651			3091		

 $\hbox{${\rm e}$-$Estimated.}$

07105530 FOUNTAIN CREEK BELOW JANITELL ROAD BELOW COLORADO SPRINGS, CO

 $LOCATION.--Lat~38^o48'11", long~104^o47'43", in~NE^{1/4}SE^{1/4}~sec. 29, T.14~S., R.66~W., El~Paso~County,~Hydrologic~Unit~11020003, on~right~bank~at~upstream~side~of~bridge~on~Janitell~Road~below~Colorado~Springs.$

DRAINAGE AREA.--413 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder with satellite telemetry, and crest-stage gage. Elevation of gage is 5,840 ft above sea level, from topographic map. Prior to July 10, 1990, at site 500 ft upstream, at datum 2.00 ft higher.

REMARKS.--Records good except for those above 2,060 ft³/s, which are poor. Natural flow of stream affected by storage reservoirs, power developments, ground-water withdrawals, diversions for irrigation and municipal use, return flow from irrigated areas, and flows from sewage treatment plants.

			DISCH	ARGE, CUBI	C FEET PER S		WATER YEAR MEAN VALUI		1996 TO SI	EPTEMBER 199	97	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	129	102	54	79	156	97	268	174	217	303	223
2	144	137	107	58	76	139	139	266	162	217	267	215
3	155	139	90	55	73	123	105	257	157	208	244	215
4	191	135	101	56	70	121	114	257	149	207	453	295
5	171	127	104	47	72	112	125	262	175	203	676	234
6	141	124	105	52	72	106	124	285	896	200	354	321
7	136	124	98	43	89	101	119	285	1540	176	305	232
8	130	130	99	58	100	100	120	298	961	157	290	208
9	126	127	77	64	99	102	115	290	1510	153	276	198
10	122	127	67	73	96	95	111	274	2580	145	325	186
11	113	130	68	69	102	95	108	262	1460	155	435	176
12	116	124	57	62	102	96	117	297	1170	157	336	173
13	114	117	55	59	99	94	118	246	1130	126	311	163
14	121	117	55	65	100	99	73	233	1560	115	236	166
15	110	116	50	64	111	101	56	232	923	101	195	138
16	99	119	55	54	107	102	59	231	816	96	189	142
17	98	114	39	53	109	101	56	225	660	79	224	131
18	107	116	45	68	103	107	60	228	530	68	251	124
19	113	112	48	76	104	97	70	236	471	172	206	120
20	116	107	55	77	100	95	71	225	435	145	191	169
21	152	108	64	69	106	95	148	258	399	138	173	174
22	115	110	72	56	108	99	96	452	377	111	157	174
23	118	131	65	60	114	98	133	259	374	80	166	183
24	116	112	54	53	105	149	614	231	449	72	162	149
25	113	111	56	53	111	113	400	222	349	87	571	140
26 27 28 29 30 31	115 158 121 130 138 134	104 120 103 109 105	55 62 61 58 57 56	61 67 75 82 76 81	122 124 126 	104 105 96 104 102 97	415 379 315 265 269	237 202 195 232 182 159	314 299 280 260 241	230 213 378 420 491 300	327 241 246 249 241 239	126 121 116 117 104
TOTAL	3972	3584	2137	1940	2779	3304	4991	7786	20801	5617	8839	5233
MEAN	128	119	68.9	62.6	99.3	107	166	251	693	181	285	174
MAX	191	139	107	82	126	156	614	452	2580	491	676	321
MIN	98	103	39	43	70	94	56	159	149	68	157	104
AC-FT	7880	7110	4240	3850	5510	6550	9900	15440	41260	11140	17530	10380
STATIST	ICS OF MO	NTHLY MEA	N DATA FO	OR WATER	YEARS 1990	- 1997,	BY WATER Y	EAR (WY)				
MEAN	93.4	86.7	65.8	72.1	83.8	97.7	119	246	260	143	143	112
MAX	179	119	102	96.0	99.3	131	166	841	693	319	285	174
(WY)	1995	1997	1995	1996	1997	1992	1997	1995	1997	1995	1997	1997
MIN	47.3	48.6	39.5	46.2	56.4	76.4	86.1	78.6	69.4	70.1	74.2	59.7
(WY)	1993	1990	1990	1990	1990	1991	1993	1993	1990	1993	1993	1992
SUMMARY	STATISTI	CS	FOR 1	1996 CALE	NDAR YEAR	F	OR 1997 WAT	ER YEAR		WATER YE	ARS 1990	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL M ANNUAL ME DAILY ME DAILY MEA	AN AN N MINIMUM AK FLOW AK STAGE C-FT) DS DS		42074 115 706 39 50 83450 161 103 67	May 25 Dec 17 Dec 13		70983 194 2580 39 50 5100 7.44 140800 323 124 62	Jun 10 Dec 17 Dec 13 Jun 10 Jun 10		133 246 76.0 4200 31 35 a11300 11.11 96610 204 89 51	Dec : Nov : Sep	1995 1993 17 1995 14 1992 21 1989 2 1994 2 1994

a-From rating curve extended above 7000 $\mathrm{ft}^3\!/\mathrm{s}\,.$

07105530 FOUNTAIN CREEK BELOW JANITELL ROAD, BELOW COLORADO SPRINGS, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1975 to June 1976, May 1979 to September 1979, December 1979 to current year.

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: October 1990 to current year.

WATER TEMPERATURE: October 1990 to current year.

pH: October 1990 to current year.
DISSOLVED OXYGEN: October 1990 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Records for daily specific conductance are fair. Records for daily pH are fair. Records for daily water temperature are good. Records for daily dissolved oxygen are fair. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 1,710 microsiemens, Nov. 20, 1994; minimum, 114 microsiemens, May 9, 1994. WATER TEMPERATURE: Maximum, 25.1°C, July 16, 1993; minimum, 0.0°C, Apr. 24, 1997.

pH: Maximum, 8.8 units, July 19, 1995; minimum, 6.7 units, July 26, 1995. DISSOLVED OXYGEN: Maximum, 11.3 mg/l, May 5, 1991; minimum, 4.4 mg/l, Mar. 28, 1991.

EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 1,280 microsiemens, Mar. 1; minimum, 123 microsiemens, June 13-14.

pH: Maximum, 8.3 units, June 6 and Aug. 24-25; minimum, 6.9 units, July 19. WATER TEMPERATURE: Maximum, 24.8°C, July 24; minimum, 0.0°C, Apr. 24. DISSOLVED OXYGEN: Maximum, 11.1 mg/l, Dec. 9; minimum, 5.7 mg/l, Apr. 20, 28, and July 3.

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

DATE	3	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH (STAND- ARD UNITS) (00400)	TEMPEI ATURI WATEI (DEG (DIS R SOLV C) (MG/	- ICA ED 5 D L) (MG	AND, F D- F EM- 0 AL, U DAY (C G/L) 10	ORM, T ECAL, .7 K M-MF (OLS./ 0 ML) 1	STREP- COCOCCI FECAL, FF AGAR COLS. PER 00 ML) 31673)	CALCI DIS- SOLV (MG/ AS (- DI VED SOL /L (MG CA) AS	UM, LINITY S- LAB VED (MG/L /L AS MG) CACO3)
OCT 23.		1300	129	693	7.9	13	.5 7	.9	5.2	300	100	49	15	105
NOV 21.		1400	124	725	7.9	13	. 0 8	.5	8.6	200	200	50	16	109
DEC 12.		1215	68	770	7.9	11	. 5 8	.6	4.1	190	110	55	17	115
JAN 23.		1430	71	747	8.0	9	. 5 8	. 5	3.9	K38	220	59	18	122
FEB 20.		1300	110	769	7.8	11	.0 8	.5 1	.2	96	280	55	16	108
MAR 20.		1215	133	717	7.8	15	.0 7	. 7	5.2	370	170	41	13	102
MAY 01.		1400	277	528	8.0	11	.0 8	. 6	2.1	170	180	43	13	87
29. JUN		1400	190	453	7.8	12	. 5 8	. 2	1.8	90	140	35	11	78
26. JUL	• •	1330	297	457	8.0	16	. 5 7	. 7	1.5	120	83	37	11	78
24. AUG		1300	86	766	8.1	23	. 5 6	.5	4.9	310	180	58	20	127
14. SEP		1300	261	525	8.1	17	. 0 7	.5	2.7	K190	360	41	13	95
18.		1330	144	700	8.1	21	. 0 6	.8 e	6.1	100	350	51	19	116
			CI	LO- FL	UO-		ESIDUE DTAL	NITRO- GEN,	NITRO- GEN,	NITRO GEN,			PHOS- PHORUS	SELE-
	DATE	SULF DIS SOL (MG AS S	FATE RI S- DI LVED SO S/L (M SO4) AS	DE, RI S- D LVED SO G/L (M CL) AS	LVED TO G/L (M F) AS	FIDE DI TAL S G/L PI S)	EG. C, SUS- ENDED (MG/L)		NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	AMMONI DIS- SOLVE (MG/L AS N)	A MONI. ORGA D TOT. (MG AS	A + NIC AL S /L (N) 1	ORTHO, DIS- SOLVED (MG/L AS P)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)
OCT		DIS SOL (MG AS S (009	FATE RI 3- DI LVED SO 5/L (M 504) AS 645) (00	DE, RI S- D LVED SO G/L (M CL) AS 940) (00	IS- SUL LVED TO G/L (M F) AS 950) (00	FIDE DI TAL S G/L PI S)	EG. C, SUS- ENDED (MG/L))0530) (TITRITE DIS- SOLVED (MG/L AS N) 00613)	NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	AMMONI DIS- SOLVE (MG/L AS N) (00608	A MONI. ORGAL D TOT. (MG AS 1	A + NIC AL S /L (N) A 25) (ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)
OCT 23 NOV	3	DIS SOL (MG AS S	FATE RI S- DI LVED SO S/L (M SO4) AS 145) (00	DE, RI S- D LVED SO G/L (M CL) AS 940) (00	IS- SUL LVED TO G/L (M F) AS 950) (00	FIDE DI TAL S G/L PI S) 745) (0	EG. C, SUS- ENDED (MG/L)	ITRITE DIS- SOLVED (MG/L AS N)	NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	AMMONI DIS- SOLVE (MG/L AS N) (00608	A MONI. ORGAL TOT. (MG AS: () (006	A + NIC AL S /L (N) 1	ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NIUM, DIS- SOLVED (UG/L AS SE)
OCT 23 NOV 21 DEC		DIS SOI (MG AS S (009	FATE RI S- DI JVED SO S/L (M SO4) AS 145) (00	DE, RI S- D LVED SO G/L (M CL) AS 940) (00	IS- SUL LVED TO G/L (M F) AS 950) (00	FIDE DI TAL S G/L PI S) 745) (1	EG. C, SUS- ENDED (MG/L) 00530) (DIS- SOLVED (MG/L AS N) 00613)	NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	AMMONI DIS- SOLVE (MG/L AS N) (00608	A MONI. ORGA: TOT. (MG AS: () (006	A + NIC AL S /L (N) 7 25) (ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)
OCT 23 NOV 21 DEC 12 JAN	3 	DIS SOI (MG AS S (009 150 160	PATE RI 3- DI VVED SO 5/L (M SO4) AS 445) (00	DE, RI S- D LIVED SO GG/L (M CL) AS 940) (00	IS- SUL LVED TO G/L (M F) AS 950) (00	FIDE DITAL : G/L PI S) 745) (1	EG. C, SUS- ENDED (MG/L) (00530) (36 18	DIS-SOLVED (MG/L AS N) 00613) 0.18 0.18 0.19	NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 4.3 4.6 4.4	AMMONI DIS- SOLVE (MG/L AS N) (00608	A MONI. ORGA: TOT. (MG AS:) (006	A + NIC AL S /L (NN) # 225) (.6	ORTHO, DIS- SOLVED (MG/L AS P) (00671) 0.53 0.55	NIUM, DIS- SOLVED (UG/L AS SE) (01145)
OCT 23 NOV 21 DEC 12 JAN 23 FEB	3 2 3	DIS SOI (MG AS S (009	FATE RI S- DI VVED SO 3/L (M SO4) AS 445) (00	DE, RI S- D LIVED SO GG/L (M CL) AS 940) (00	IS- SUL LVED TO G/L (M F) AS 950) (00	FIDE DITAL SG/L PIS) 745) (1	EG. C, SUS- ENDED (MG/L))0530) (DIS-SOLVED (MG/L AS N) 00613)	NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 4.3 4.6 4.4	AMMONI DIS- SOLVE (MG/L AS N) (00608	A MONI. ORGA: TOT. (MG AS:) (006	A + NIC AL S /L (N) 2 25) (.6 .4	ORTHO, DIS- SOLVED (MG/L AS P) (00671) 0.53	NIUM, DIS- SOLVED (UG/L AS SE) (01145)
OCT 23 NOV 21 DEC 12 JAN 23 FEB 20 MAR	3 2 3	DIS SOL (MG AS S (009 150 160 170	FATE RIS- DI DI SOO S/L (M SO4) AS (45) (00 3 3 3 3 4 4 5 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	DE, RI S- D LIVED SO G/L (M CL) AS 940) (00	IS SUL LVED TO G/L (M F) AS 950) (00 1.8 1.8 1.9 1.7	FIDE DITAL S G/L PI S) 745) (1	EG. C, SUS- ENDED (MG/L) (00530) (36 18 16 20 46	DIS- SOLVED (MG/L AS N) 00613) 0.18 0.18 0.19 0.17	NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 4.3 4.6 4.4	AMMONI DIS- SOLVE (MG/L AS N) (00608 0.70 1.20 0.75 1.6 3.4	A MONI. ORGA: D TOT. (MARCON)	A + NIC AL S (L)	ORTHO, DIS- SOLVED (MG/L AS P) (00671) 0.53 0.55 1.10 0.54	NIUM, DIS- SOLVED (UG/L AS SE) (01145) 4 4 7
OCT 23 NOV 21 DEC 12 JAN 23 FEB 20 MAR 2C MAY	3 2 3	DIS SOL (MG AS S (009) 150 160 170 170 150	PATE RI S- DI SO SO SO (1/L (M SO (4) AS (45) (00) 3) 4) 4) 4	DE, RI S- D LIVED SO G(L) AS 940) (00	IS SUL LVED TO G/L (M F) AS 950) (00 1.8 1.8 1.9 1.7 1.8	FIDE DITAL : G/L PI S) 745) ((EG. C, SUS- ENDED (MG/L) 00530) (36 18 16 20 46 94	DIS- SOLVED (MG/L AS N) 00613) 0.18 0.18 0.19 0.17 0.20	NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 4.3 4.6 4.4 4.3 4.0 2.4	AMMONI DIS- SOLVE (MG/I AS N) (00608 0.70 1.20 0.75 1.6 3.4	A MONI. ORGA: D TOT. (MG AS:) (006	A + NIC ALL SALL SALL SALL SALL SALL SALL SALL	ORTHO, DIS- SOLVED (MG/L AS P) (00671) 0.53 0.55 1.10 0.54 0.40	NIUM, DIS- SOLVED (UG/L AS SE) (01145) 4 4 7 4 3
OCT 23 NOV 21 DEC 12 JAN 23 FEB 20 MAR 20 MAY 01	3 2 3	DIS SOL (MG AS S (009 150 160 170	FATE RIS- DI DI SOO S/L (M SO4) AS (45) (00 3 3 3 4 4 6 4 4 6 6 6 6 6 6 6 6 6 6 6 6	DE, RI S- D LIVED SO G/L (M CL) AS 940) (00 5 8 4 9	IS SUL LVED TO G/L (M F) AS 950) (00 1.8 1.8 1.9 1.7 1.8	FIDE DITAL : G/L Pl S/) 745) (1	EG. C, SUS- ENDED (MG/L) (00530) (36 18 16 20 46	DIS- SOLVED (MG/L AS N) 00613) 0.18 0.18 0.19 0.17	NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 4.3 4.6 4.4	AMMONI DIS- SOLVE (MG/L AS N) (00608 0.70 1.20 0.75 1.6 3.4	A MONI. ORGA: D TOT. (MG AS:) (006	A + NIC AL S (L)	ORTHO, DIS- SOLVED (MG/L AS P) (00671) 0.53 0.55 1.10 0.54	NIUM, DIS- SOLVED (UG/L AS SE) (01145) 4 4 7
OCT 23 NOV 21 DEC 122 JAN 23 FEB 20 MAR 20 MAY 21 J29 JUN 26	3	DIS SOL (MGG AS S (009) 150 160 170 170 150 120	FATE RI S- DI SO SO (V/L (M SO4) AS (45) (00) 3) 4) 4) 4) 3) 3	DE, RI S- D LIVED SO GG/L (M CL) AS 940) (00 5 8 4 9	IS SUL LVED TO G/L (M F) AS 950) (00 1.8 1.8 1.9 1.7 1.8	FIDE DITAL : G/L PI S) 745) ((<0.5	EG. C, SUS- ENDED (MG/L) (00530) (36 18 16 20 46 94 116	DIS- SOLVED (MG/L AS N) 00613) 0.18 0.18 0.19 0.17 0.20 0.20	NO2+NO3 DIS- SOLVEDD (MG/L AS N) (00631) 4.3 4.6 4.4 4.3 4.0 2.4	AMMONI DIS- SOLVE (MG/L AS N) (00608 0.70 1.20 0.75 1.6 3.4 1.6	A MONI. ORGA: 1D TO (MG AS: 1) (006 AS: 1) (22 A 4 7 7 8 8 1 5 0	A + NIC AL SAL SAL SAL SAL SAL SAL SAL SAL SAL	ORTHO, DIS- SOLVED (MG/L AS P) (00671) 0.53 0.55 1.10 0.54 0.40 0.03	NIUM, DIS- SOLVED (UG/L AS SE) (01145) 4 4 7 4 3
OCT 23 NOV 21 DEC 12 JAN 23 FEB 20 MAR 20 MAY 01 29 JUN 26 JUL 24	3	DIS SOL (MG AS S (009) 150 160 170 170 150 120 94	FATE RIS- DI DI NOTED SO O S/L (M SO 4) AS 0 445) (00 4 4 0) 4 4 0 3 3 0 4 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DE, RI S- D LIVED SO G/L (M CL) AS 940) (00 5 8 4 9	IS SUL LVED TO G/L (M F) AS 950) (00 1.8 1.8 1.9 1.7 1.8 1.8	FIDE DITAL : G/L Pl S) <0.5	EG. C, SUS- SUS- SENDED (MG/L) 00530) (36 18 16 20 46 94 116 77	DIS- SOLVED (MG/L AS N) 00613) 0.18 0.18 0.19 0.17 0.20 0.20 0.06 <0.01	NO2+NO3 DIS- SOLVEDD (MG/L AS N) (00631) 4.3 4.6 4.4 4.3 4.0 2.4 1.97	AMMONI DIS- SOLVE (MG/L AS N) (00608 0.70 1.20 0.75 1.6 3.4 1.6 0.44 <0.01	A MONI. ORGA: DO GREA TOT. (MG AS:) (006	A + NIC ALL SALL SALL SALL SALL SALL SALL SALL	ORTHO, DIS- SOLVED (MG/L AS P) (00671) 0.53 0.55 1.10 0.54 0.40 0.03	NIUM, DIS- SOLVED (UG/L AS SE) (01145) 4 4 7 4 3 3 2
OCT 23 NOV 21 DEC 12 JAN 23 FEB 20 MAY 01 29 JUN 26 JUL 24 AUG	3 2 3 0	DIS SOL (MG AS S) (009 150 160 170 170 150 120 94	FATE RIS- DI DI SOO SOO SOO SOO SOO SOO SOO OO SOO OO O	DE, RI S- D LIVED SO G/L (M CL) AS 940) (00 5 8 4 9 9 9	IS SUL LVED TO G/L TO G/L AS 950) (00 1.8 1.8 1.9 1.7 1.8 1.8 2.4 2.4 2.3	FIDE DITAL : G/L Pl S) <0.5	EG. C, SUS- ENDED (MG/L) 00530) (36 18 16 20 46 94 116 77 91	DIS- SOLVED (MG/L AS N) 00613) 0.18 0.18 0.19 0.17 0.20 0.20 0.20	NO2+NO3 DIS- SOLVEDD (MG/L AS N) (00631) 4.3 4.6 4.4 4.3 4.0 2.4 1.97 1.16	AMMONI DIS- SOLVE (MG/L AS N) (00608 0.70 1.20 0.75 1.6 3.4 1.6 0.44 <0.01	A MONI. ORGA: OTOT. (MG AS:) (006	A + NIC	ORTHO, DIS- SOLVED (MG/L AS P) (00671) 0.53 0.55 1.10 0.54 0.40 0.03 0.080 0.124	NIUM, DIS- SOLVED (UG/L AS SE) (01145) 4 4 7 4 3 3 3 2
OCT 23 NOV 21 DEC 12 JAN 23 FEB 20 MAR 20 MAY 01 29 JUN 26 JUL 24 AUG 14 SEP	3	DIS SOL (MGG AS S (009) 150 160 170 170 150 120 94 96 180	FATE RIS- DI	DE, RI S- D LIVED SO G(L) AS 940) (00 5 8 4 9 9 9 9 9 9	IS SUL LVED TO G/L (M F) 950) (00 1.8 1.8 1.9 1.7 1.8 1.8 2.4 2.3 2.4	FIDE DITAL : G/L Pl S) 745) (1	EG. C, SUSS-SUS-SUS-SUS-SUS-SUS-SUS-SUS-SUS-SU	DIS- SOLVED (MG/L AS N) 00613) 0.18 0.18 0.19 0.17 0.20 0.20 0.06 <0.01 0.05 0.08	NO2+NO3 DIS- SOLVEDD (MG/L AS N) (00631) 4.3 4.6 4.4 4.3 4.0 2.4 1.97 1.16 1.33 3.58	AMMONI DIS- SOLVE (MG/L AS N) (00608 0.70 1.20 0.75 1.6 3.4 1.6 0.44 <0.01 1.17	A MONI. ORGA: 1D TO	A + HNIC	ORTHO, DIS- SOLVED (MG/L AS P) (00671) 0.53 0.55 1.10 0.54 0.40 0.03 0.080 0.124 0.031	NIUM, DIS- SOLVED (UG/L AS SE) (01145) 4 4 7 4 3 3 2 3 4

e-Estimated.

K-Based on non-ideal colony count.

07105530 FOUNTAIN CREEK BELOW JANITELL ROAD, BELOW COLORADO SPRINGS, CO--Continued

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

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, TOTAL RECOV- ERABLE (UG/L AS B) (01022)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR) (01032)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
OCT 23					<1	<1	<1	<1	<1	3	1.0	790
NOV 21	<1	<1	130	139	<1	<1	<1	<1	<1	4	2.0	570
DEC 12					<1	<1	1	<1	<1	4	2.0	640
JAN 23 FEB					<1	<1	<1	<1	<1	4	2.0	790
20 MAR					<1	<1	<1	<1	<1	4	2.0	860
20 MAY					<1	<1	2	<1	<1	5	1.7	1900
01 29	 1	 <1	 70	 77	<1 <1	<1 <1	2 1	<1 <1	<1 <1	4 3	<1 <1	3400 1900
JUN 26					<1	<1	<1	<1	<1	2	<1	1800
JUL 24					<1	<1	<1	<1	<1	3	1.1	530
AUG 14 SEP					<1	<1	3	<1	<1	5	2.7	2200
18					<1	<1	<1	<1	<1	3	2.0	490
		LEA:	D	MANG		GA- NICK		SEI	E ZIN	C.		
DATI	IRO DI SOL E (UG AS	N, TOT. S- REC VED ERA /L (UG FE) AS	AL LEA OV- DI BLE SOL /L (UG PB) AS	S- RECO VED ERAB /L (UG/ PB) AS M	L NES V- DI LE SOL L (UG N) AS	E, TOT. S- REC VED ERA /L (UG MN) AS	AL NICK OV- DIS BLE SOL /L (UG NI) AS	EL, NIU - DI VED SOI /L (UC NI) AS	JM, TOT S- REC LVED ERA S/L (UG SE) AS	AL ZINC OV- DIS BLE SOLV /L (UG/ ZN) AS 2	S- CYAN /ED TOT: /L (MG ZN) AS	AL /L CN)
DATI OCT 23	DI SOL E (UG AS	N, TOT. S- REC VED ERA /L (UG FE) AS: 46) (010	AL LEA OV- DI BLE SOL /L (UG PB) AS	D, TOTA S- RECO VED ERAB /L (UG/ PB) AS M 49) (0105	L NES V- DI LE SOL L (UG N) AS	E, TOT. S- REC VED ERA /L (UG MN) AS	AL NICK OV- DIS BLE SOL /L (UG NI) AS	EL, NIU - DI VED SOI -/L (UG NI) AS 65) (011	JM, TOT S- REC LVED ERA S/L (UG SE) AS	AL ZINC OV- DIS BLE SOLV /L (UG/ ZN) AS 2	S- CYAN /ED TOT: /L (MG ZN) AS	AL /L CN) 20)
OCT 23 NOV 21	DI SOL E (UG AS	N, TOT. S- RECOVED ERAM /L (UG FE) AS 1 46) (010	AL LEA OV- DI BLE SOL /L (UG PB) AS 51) (010	D, TOTA S- RECO VED ERAB /L (UG/ PB) AS M 49) (0105	L NES V- DI LE SOL L (UG N) AS 5) (010	E, TOT. S- REC VED ERA /L (UG MN) AS	AL NICK OV- DIS BLE SOL /L (UG NI) AS 67) (010	EL, NIU - DI VED SOI //L (UG NI) AS 65) (011	JM, TOT: S- REC JVED ERA S/L (UG SE) AS .45) (010	AL ZING OV- DIS BLE SOLV /L (UG/ ZN) AS 2 92) (0109	S- CYAN /ED TOT. /L (MG ZN) AS 90) (007	AL /L CN) 20)
OCT 23 NOV 21 DEC 12	DI SOL E (UG AS (010	N, TOT. S- REC'S VED ERA: /L (UG FE) AS: 46) (010	AL LEA OV- DI BLE SOL /L (UG PB) AS 51) (010	D, TOTA S- RECO VED ERAB /L (UG/ PB) AS M 49) (0105	L NES V- DI LE SOL L (UG N) AS 5) (010	E, TOT. S- REC VED ERA /L (UG MN) AS	AL NICKOV- DISBLE SOL (UGNI) AS 67) (010	EL, NIU - DI VED SOD (/L (UC NI) AS 65) (011	JM, TOT: S- REC LVED ERA S/L (UG SE) AS .45) (010	AL ZING OV- DIS BLE SOLV /L (UG/ ZN) AS 2 92) (0109	S- CYAN /ED TOT. /L (MG ZN) AS 90) (007	AL /L CN) 20) -
OCT 23 NOV 21 DEC 12 JAN 23	DI SOL E (UG AS (010	N, TOT. S- REC' VVED ERA' /L (UG FE) AS: 46) (010	AL LEA OV- DI BLE SOL /L (UG PB) AS 551) (010	D, TOTA S- RECO VED ERAB /L (UG/ PB) AS M 49) (0105	L NES V-DI LE SOL L (UG N) AS 5) (010	E, TOT. S- REC VED ERA /L (UG MN) AS	AL NICK OV- DIS SOL (UG NI) AS 67) (010	EL, NIU - DI VVED SOI (/L (UC NI) AS (65) (011	JM, TOT. SS - REC LVED ERA S/L (UG SE) AS 44 4	AL ZING OV- DIS BLE SOLV /L (UG/ ZN) AS 2 92) (0109 30 23 40 32	S- CYAN /ED TOT /L (MG ZN) AS /00) (007	AL /L CN) 20) - 01
OCT 23 NOV 21 DEC 12 JAN 23 FEB 20	DI SOL E (UG AS (010	N, TOT. S- REC' VVED ERA' /L (UG FE) AS: 446) (010	AL LEA OV- DI BLE SOL /L (UG PB) AS 51) (010 2 <1 2 <1 2 <1	D, TOTA S- RECO VED ERAB /L (UG/ PB) AS M 49) (0105	L NES V- DI SOLLE SOLL (UG N) AS 5) (010 90 70 80 90 72	E, TOT. S- REC VED ERA /L (UG MN) AS	AL NICK OV- DIS SOL (UG NI) AS 67) (010	EL, NIU - DI VVED SOI //L (UC NI) AS 65) (011	IM, TOT. S- REC VVED ERA 4/L (UG SE) AS 45) (010	AL ZINC OV- DIS BLE SOLV /L (UG/ ZN) AS 2 92) (0109 30 23 40 32 40 36	S- CYAN /ED TOT /L (MG ZN) AS 90) (007	AL /L (CN) 20) - 01
OCT 23 NOV 21 DEC 12 JAN 23 FEB 20 MAR 20	DI SOL E (UG AS (010	N, TOT. S- REC' VVED ERA' /L (UG FE) AS: 46) (010 7 7 2 2 9	AL LEA OUV- DI BLE SOL (/L (UG PB) AS 51) (010 2 <1 2 <1 2 <1 2 <1	D, TOTA S- RECO VED ERAB /L (UG/ PB) AS M 49) (0105	L NES DI LLE SOLL (UG N) AS 5) (010 80 90 72 90 71	E, TOT. S- REC VED ERA /L (UG MN) AS	AL NICK DIS BLE SOL (UG NI) AS 67) (010	EL, NIU - DI VVED SOI //L (UC NI) AS 65) (011	IM, TOT. S-REC VIED ERA S/L (UG SE) AS (45) (010 4 4	AL ZINC OV- DIT BLE SOLL /L (UG, ZN) AS 2 92) (0109 30 23 40 32 40 36 40 34	S- CYAN FED TOT. /L (MG EN) AS 90) (007	AL /L (CN) 20) - 01
OCT 23 NOV 21 DEC 12 JAN 23 FEB 20 MAR 20 MAY 01 29	DI SOLL (UG AS (010 3 3 3 3 2 2 2 1	N, TOT. S- REC' VVED ERA' /L (UG FE) AS: 46) (010 7 7 2 9 4	AL LEA OV- OV- DI BLE SOL /L (UG PB) AS 51) (010 2 <1 2 <1 2 <1 2 <1 2 <1 2 <1 2 <1	D, TOTA S- RECO VED ERAB /L (UG/ PB) AS M 49) (0105	L NES DI LLE SOLL (UG N) AS 5) (010 90 70 90 72 90 71 10 82	E, TOT. S- REC VED ERA /L (UG MN) AS	AL NICK DIS BLE SOL (UG NI) AS 67) (010	EL, NIU - DI VVED SOIL (/L (UC NI) AS 65) (011	IM, TOT. S- REC VVED ERA 3/L (UG SE) AS 45) (010 4 4 4	AL ZINC OV- DIS BBLE SOLV /L (UG, ZN) AS 2 92) (0109 30 23 40 32 40 36 40 34 50 41	S- CYAN FED TOT. IL (MG ZN) AS 90) (007	AL /L (CN) 20) - 01
OCT 23 NOV 21 DEC 12 JAN 23 FEB 20 MAR 20 MAY 01 29 JUN 26	E (UG AS (010	N, TOT. S- REC' VVED ERA' /L (UG FE) AS ' 46) (010 7 7 2 2 9 4	AL LEA ON DI BLE SOLL (UG PB) AS 51) (010 2 <1 2 <1 2 <1 2 <1 5 <1 8 <1	D, TOTA S- RECO VED ERAB /L (UG/ PB) AS M 49) (0105	L NES DI LLE SOLL (UG N) AS 5) (010 90 70 90 71 10 82 30 60 80 28	E, TOT. S- REC VED ERA /L (UG MN) AS	AL NICK ODLS SOL AL (UG NI) AS 667) (010 3 2 4 3 4 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4	EL, NIU - DI VVED SOIL (/L (UC NI) AS 65) (011	M, TOT. S- REC VVED ERA S (10 10 10 10 10 10 10 10 10 10 10 10 10 1	AL ZINC OV- DIS BLE SOLV /L (UG, ZN) AS 2 92) (0109 30 23 40 32 40 36 40 34 50 41 60 30 40 12	S- CYAN FED TOT. IL (MG ZN) AS 90) (007 - <0	AL /L (CN) 20) - 01 01
OCT 23 NOV 21 DEC 12 JAN 23 FEB 20 MAR 20 MAY 01 29 JUN 26 JUL 24	E (UG AS (010	N, TOT. S- REC' VVED ERA' /L (UG FE) AS (010 7 7 2 2 9 4 2 8.0	AL LEA OOV DI	D, TOTA S- RECO VED ERAB /L (UG/ PB) AS M 49) (0105	L NES DI LE SOLL (UG N) AS 5) (010 90 70 90 71 10 82 30 60 88 97 21	E, TOT. S- REC VED ERA /L (UG MN) AS	AL NICK OUS STATE OF THE PROPERTY OF THE PROPE	EL, NIU- DI VVED SOI (/L (UC NI) AS 65) (011	M, TOT. S- REC VVED ERA S/L (UG SE) AS (45) (010 4 4 7 7 4 3 3 2	AL ZINC OV- DIT BLE SOLL (LUG, ZN) AS 2 92) (0109 30 23 40 32 40 36 40 34 50 41 60 30 40 12 30 20	S- CYAN FED TOT. IL (MG ZN) AS 00) (007 - <0	AL /L (CN) 20) - 01 01 01 01 01 01 01
OCT 23 NOV 21 DEC 12 JAN 23 FEB 20 MAR 20 MAY 01 29 JUN 26 JUL	E (UG AS (010	N, TOT. S- REC' VVED ERA' /L (UG FE) AS: 46) (010 7 7 2 9 4 2 8.7 8.0	AL LEA OOV DI ON OV DI ON OVI DI ON OVI DI ONO OV	D, TOTA S- RECO VED ERAB /L (UG/ PB) AS M 49) (0105	L NES DI LE SOLL (UG AS 5) (010 90 70 80 90 71 10 82 30 60 88 97 21 94 30	E, TOT. S- REC VED ERA /L (UG MN) AS	AL NICK ODLS SUBLE SOL (UG NI) AS 67) (010 3	EL, NIU- DI VVED SOLO I/L (UC NI) AS 65) (011	M, TOT. S- REC. VIED ERA S/L (UG SE) AS (45) (010 4 4 4 3 3 3 2 3	AL ZINCOOV- DIE SOLL (UG/ ZN) AS 2 92) (0109 30 23 40 32 40 36 40 34 50 41 60 30 40 12 30 20 5	S- CYAN /ED TOT. /L (MG ZN) AS 90) (007 - <0	AL /L /L (CN) 20) - 01 01

07105530 FOUNTAIN CREEK BELOW JANITELL ROAD, BELOW COLORADO SPRINGS, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		DE	CEMBER			JANUARY	
1 2 3 4 5	616 614 615 610 610	545 546 548 334 406	590 587 589 568 548	632 631 713 666 614	607 586 576 573 548	620 605 609 599 588	773 748 792 771 763	691 690 724 717 696	736 720 758 739 731	755 748 762 739 783	662 666 679 685 714	713 721 730 714 736
6 7 8 9 10	629 630 639 643 658	540 555 574 579 592	589 605 613 622 633	618 642 639 660 662	581 596 571 607 625	599 616 604 629 638	736 758 745 725 753	691 704 691 662 702	708 727 719 707 731	765 846 841 779 759	677 750 735 731 721	717 799 784 747 734
11 12 13 14 15	671 664 695 663 649	626 592 605 631 604	648 641 641 647 628	648 664 658 709	608 612 607 698	627 636 631 705	764 768 756 754 783	692 707 702 680 705	742 742 735 725 740	774 783 789 884 1020	726 735 730 739 792	753 758 765 799 886
16 17 18 19 20	701 696 	604 647 	660 677 	728 859 714 695 722	684 711 667 638 648	706 744 689 677 698	765 779 819 783 802	711 710 717 710 743	723 745 771 755 773	1000 862 952 1020 979	835 786 811 792 790	899 826 871 929 872
21 22 23 24 25	 656 635	 617 590	 635 620	714 756 905 748 748	678 702 671 647 681	699 721 741 712 716	789 746 756 771 747	738 709 719 729 690	765 732 741 752 727	872 858 840 828 840	740 773 773 768 739	803 823 793 795 783
26 27 28 29 30 31	657 811 666 646 630 635	597 581 579 593 604 611	630 622 622 623 620 623	737 1130 907 767 752	703 709 687 688 712	726 858 795 725 735	771 768 727 728 747 747	708 711 646 647 655 672	737 731 696 693 715 726	777 779 823 784 801 755	724 719 759 749 731 722	747 755 786 765 771 739
MONTH							819	646	734	1020	662	784
MONTH		 FEBRUARY			 MARCH		819	646 APRIL	734	1020	662 MAY	784
1 2 3 4 5			 760 747	1280 751 829 826		825 746 753	743 784 712 713 707		734 720 656 695 689 678	344 343 352 347 339		784 336 337 343 337 332
1 2 3 4	 793	FEBRUARY 731	 760	1280 751 829	MARCH 633 697	825 746	743 784 712 713	701 576 673 631	720 656 695 689	344 343 352 347	MAY 324 333 334 323	336 337 343 337
1 2 3 4 5 6 7 8 9	 793 777 792 772 786 754	FEBRUARY 731 727 688 691 637 616	 760 747 740 729 725 690	1280 751 829 826 836 799 805 748	MARCH 633 697 686 654 634 620 654	825 746 753 738 730 696 716	743 784 712 713 707 675 683 664 679	701 576 673 631 654 626 615 632 637	720 656 695 689 678 650 634 646 654	344 343 352 347 339 327 	MAY 324 333 334 323 319 305	336 337 343 337 332 312
1 2 3 4 5 6 7 8 9 10 11 12 13 14	793 777 792 772 786 754 785 779 747 760 784	FEBRUARY 731 727 688 691 637 616 652 660 642 681 705	760 747 740 729 725 690 696 712 726 728 741	1280 751 829 826 836 799 805 748 787 779 752 748 741	MARCH 633 697 686 654 634 620 654 672 695 713 706 703	825 746 753 738 730 696 716 725 754 736 727	743 784 712 713 707 675 683 664 679 650 714 709 699	701 576 673 631 654 626 615 632 637 605 610 640 629 630	720 656 695 689 678 650 634 646 654 625 649 678 660 656	344 343 352 347 339 327 283 354 337 316 316	MAY 324 333 334 323 319 305 247 277 286 286 296	336 337 343 337 332 312 270 307 306 305 325
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	793 777 792 772 786 754 785 779 747 760 784 773	FEBRUARY 731 727 688 691 637 616 652 660 642 681 705 718 707 699 690 687	740 747 740 729 725 690 696 712 726 741 735 724 730 730 739	1280 751 829 826 836 799 805 748 787 779 752 748 741 759 773 766 748 763	MARCH 633 697 686 654 634 620 654 672 695 713 706 703 715 750 720 708 705	825 746 753 738 730 696 716 725 754 736 736 740 761 746 731 741	743 784 712 713 707 675 683 664 679 650 714 709 697 733 722 713 725 712	APRIL 701 576 673 631 654 626 615 632 637 605 610 640 629 630 688 676 676 681 675	720 656 695 689 678 650 634 646 654 625 649 678 660 656 709 695 697 702 696	344 343 352 347 339 327 283 354 337 316 364 359 361 400 482 429	MAY 324 333 334 323 319 305 247 277 286 286 296 303 269 349 364 290	336 337 343 337 332 312 270 307 305 305 325 322 338 373 403 365
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	793 777 792 772 786 754 785 779 747 760 784 773 756 765 749 760 742 947 833 833 833 833 838	FEBRUARY 731 727 688 691 637 616 652 660 642 681 705 718 707 699 690 687 681 681 715 734	740 747 740 729 725 690 696 712 726 726 741 735 724 730 730 739 716 855 782 756 773	1280 751 829 826 836 799 805 748 787 779 752 748 741 759 773 766 748 763 785	MARCH 633 697 686 654 634 620 654 672 695 713 706 703 715 750 720 708 705 700 689 707 688 676	825 746 753 738 730 696 716 725 754 736 727 719 740 761 745 741 745 729 721 727 733	743 784 712 713 707 675 683 664 679 650 714 709 699 697 733 722 713 725 712 697 691 466 489 386	APRIL 701 576 673 631 654 626 615 632 637 605 610 640 629 630 688 676 675 653 405 414 366 308	720 656 695 689 678 650 634 646 654 625 649 678 660 656 709 695 697 702 696 672 440 4465 345	344 343 352 347 339 327 283 354 337 316 364 359 361 400 482 429 390 319 287 324 302	MAY 324 333 334 323 319 305 247 277 286 296 303 269 349 364 290 254 227 179 202 273	336 337 343 337 332 312 270 307 305 305 325 322 338 373 403 365 317 275 218 267 288

07105530 FOUNTAIN CREEK BELOW JANITELL ROAD, BELOW COLORADO SPRINGS, CO--Continued

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

				,	`			′′				
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		1	AUGUST		5	SEPTEMBE:	R
1	374	284	313	526	484	508	505	311	383	580	384	494
2	341	288	301	537	498	514	580	355	424	574	379	496
3	355	274	320	506	319	395	458	377	415	600	502	558
4	369	304	337	410	350	373	451	187	387	600	306	527
5	342	242	318	386	358	370	343	167	281	481	249	435
6	511	126	308	418	355	375	335	248	295	600	253	429
7	195	148	174	406	363	389	380	301	339	511	329	445
8	197	182	188	413	383	399	382	335	361	521	445	486
9	214	188	197				372	332	349	558	491	523
10	212	143	173				450	329	382	573	505	545
11	238	163	218	701	565	635	426	232	328	647	527	590
12	177	152	159	608	534	577	444	233	384	654	537	588
13	171	123	158	625	548	592	423	284	349	624	501	561
14	187	123	171	620	505	555	432	348	398	574	436	521
15	204	179	190	586	548	567	440	386	413	674	428	597
16	199	176	190	610	564	584	511	377	418			
17	233	179	196	689	584	644	503	369	393			
18	303	194	235	677	621	654	410	285	342			
19	302	237	284	666	625	646	482	344	395		===	
20	307	271	294				478	350	429	682	555	615
21	332	295	315		===		466	370	401	658	556	615
22	347	309	330	688	567	631	430	326	391	642	505	613
23	470	323	356	760	662	712	378	340	362	622	449	563
24	445	364	396	756	712	741	384	303	365	647	559	608
25	592	382	483	712	622	690	346	271	308	645	583	625
26	565	418	499	681	311	550				679	587	638
27	535	478	512							697	617	658
28	573	445	504		290		549	442	482	701	617	662
29	480	419	455	631	295	423	523	413	469	688	620	659
30	522	428	482	587	313	388	504	412	460	721	627	682
31				370	315	341	538	403	469			
MONTH	592	123	302									

pH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	VEMBER		DE	CEMBER			JANUARY	
1 2 3 4 5	8.0 8.0 7.6 7.8 7.6	7.7 7.4 7.4 7.4 7.3	7.8 7.7 7.5 7.5 7.5	7.7 7.8 7.9 7.9	7.5 7.5 7.5 7.5 7.6	7.6 7.6 7.6 7.7 7.7	7.8 7.8 7.7 7.8 7.8	7.5 7.5 7.4 7.5 7.5	7.7 7.6 7.6 7.6 7.6	7.8 7.8 7.6 7.7 7.6	7.4 7.4 7.4 7.3 7.3	7.6 7.6 7.4 7.4 7.4
6 7 8 9 10	7.5 7.5 7.6 7.6 7.6	7.3 7.3 7.4 7.4 7.4	7.4 7.4 7.5 7.5 7.5	7.9 7.9 7.9 7.9	7.6 7.6 7.6 7.6 7.5	7.7 7.7 7.7 7.7 7.7	7.7 7.8 7.8 7.8 8.0	7.5 7.6 7.6 7.6 7.6	7.6 7.6 7.6 7.7 7.8	7.6 7.6 7.5 7.6 7.6	7.3 7.3 7.3 7.2 7.2	7.5 7.4 7.4 7.4 7.3
11 12 13 14 15	7.7 7.7 7.8 7.7 7.6	7.5 7.5 7.5 7.4 7.4	7.6 7.6 7.6 7.6 7.5	7.9 7.8 8.0 7.7 7.8	7.5 7.5 7.5 7.5 7.5	7.6 7.7 7.6 7.6 7.7	8.0 8.0 8.0 8.1 8.0	7.7 7.8 7.8 7.8 7.7	7.9 7.9 7.9 7.9	7.4 7.4 7.5 7.5	7.1 7.2 7.2 7.3 7.3	7.3 7.3 7.3 7.3 7.4
16 17 18 19 20	7.7 7.7 7.9 7.9 8.0	7.4 7.4 7.5 7.6 7.6	7.5 7.6 7.7 7.8 7.8	7.9 7.8 7.8 7.7 7.8	7.6 7.5 7.5 7.5 7.5	7.7 7.6 7.6 7.6 7.6	8.0 7.8 7.8 7.9 8.0	7.7 7.7 7.7 7.7 7.7	7.8 7.8 7.7 7.8 7.8	7.6 7.6 7.7 7.9 7.8	7.4 7.4 7.5 7.6 7.6	7.5 7.5 7.6 7.7 7.7
21 22 23 24 25	8.0 8.0 8.1 8.1	7.6 7.8 7.8 7.8 7.8	7.8 7.9 7.9 7.9	7.8 7.7 7.8 7.8 7.8	7.5 7.5 7.5 7.5 7.6	7.6 7.6 7.6 7.6 7.6	8.0 8.0 7.9 7.9 8.0	7.6 7.6 7.6 7.6 7.5	7.8 7.7 7.7 7.7 7.7	7.9 7.9 8.1 8.0 7.9	7.7 7.7 7.8 7.7 7.7	7.8 7.8 7.9 7.8 7.8
26 27 28 29 30 31	8.1 7.9 7.9 7.9 7.5 7.6	7.6 7.6 7.5 7.5 7.5	7.8 7.7 7.7 7.7 7.5 7.5	7.8 7.8 7.8 7.9 7.8	7.5 7.6 7.5 7.6 7.5	7.6 7.7 7.6 7.7 7.6	7.8 7.8 8.0 8.0 7.8	7.5 7.6 7.6 7.5 7.5	7.6 7.7 7.7 7.7 7.6 7.6	8.1 7.8 7.8 7.6 7.6 7.6	7.6 7.6 7.5 7.5 7.4 7.4	7.8 7.6 7.6 7.5 7.5
MONTH	8.1	7.3	7.6	8.0	7.5	7.6	8.1	7.4	7.7	8.1	7.1	7.5

07105530 FOUNTAIN CREEK BELOW JANITELL ROAD, BELOW COLORADO SPRINGS, CO--Continued

 $\,$ pH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
_		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	7.6 7.7 7.7 7.7 7.5	7.4 7.4 7.5 7.3 7.3	7.5 7.6 7.6 7.5 7.4	7.6 7.6 7.7 7.7 7.6	7.3 7.3 7.4 7.5 7.4	7.5 7.5 7.5 7.6 7.5	7.6 7.6 7.6 7.5 7.6	7.4 7.3 7.4 7.4 7.4	7.5 7.5 7.5 7.5 7.5	7.6 7.5 7.5 7.6 7.5	7.2 7.2 7.2 7.1 7.2	7.4 7.4 7.4 7.4 7.4
6 7 8 9 10	7.6 7.6 7.5 7.6 7.6	7.3 7.3 7.3 7.3 7.4	7.4 7.4 7.4 7.5 7.5	7.7 7.7 7.7 7.7 7.7	7.4 7.5 7.4 7.4 7.5	7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.7	7.4 7.4 7.4 7.4 7.5	7.4 7.4 7.5 7.5	7.5 7.4 7.4 7.5 7.5	7.3 7.3 7.3 7.3 7.3	7.4 7.3 7.3 7.4 7.4
11 12 13 14 15	7.6 7.7 7.7 7.7	7.4 7.4 7.5 7.4 7.3	7.5 7.6 7.6 7.5	7.7 7.6 7.6 7.7 7.6	7.5 7.5 7.5 7.5 7.4	7.5 7.5 7.5 7.5 7.5	7.6 7.5 7.6 7.9 8.1	7.4 7.4 7.0 7.4 7.3	7.5 7.4 7.5 7.6 7.6	7.5 7.5 7.5 7.5 7.8	7.3 7.3 7.3 7.3 7.4	7.4 7.4 7.4 7.4 7.6
16 17 18 19 20	7.7 7.7 7.6 7.8 7.6	7.3 7.2 7.3 7.3 7.3	7.5 7.4 7.4 7.4 7.4	7.6 7.6 7.6 7.7	7.4 7.4 7.4 7.4 7.4	7.5 7.5 7.5 7.5 7.6	8.1 8.2 8.0 8.2 8.0	7.2 7.3 7.0 7.3 7.2	7.6 7.6 7.6 7.6 7.5	7.8 7.8 7.8 7.7 7.9	7.5 7.5 7.6 7.6 7.5	7.7 7.7 7.7 7.7 7.6
21 22 23 24 25	7.5 7.5 7.6 7.6 7.6	7.3 7.3 7.3 7.3 7.3	7.4 7.4 7.4 7.4 7.4	7.7 7.7 7.7 7.6 7.6	7.5 7.5 7.5 7.5 7.4	7.6 7.6 7.5 7.5	8.0 7.7 7.9 7.6 7.5	7.2 7.4 7.1 7.4 7.2	7.6 7.5 7.5 7.5 7.3	7.7 7.7 7.8 7.7 7.7	7.5 7.4 7.5 7.5 7.6	7.6 7.6 7.6 7.6 7.6
26 27 28 29 30 31	7.6 7.6 7.7 	7.4 7.4 7.4 	7.5 7.5 7.5 	7.6 7.5 7.5 7.5 7.5 7.5	7.4 7.4	7.5 7.5 7.5 7.4 7.4 7.4	7.3 7.5 7.5 7.5 7.5	7.2 7.2 7.2 7.3 7.3	7.3 7.3 7.4 7.4 7.4	7.7 7.7 7.9 7.7 7.7 7.8	7.5 7.5 7.5 7.5 7.5 7.6	7.6 7.6 7.7 7.6 7.6 7.7
MONTH	7.8	7.2	7.5	7.7		7.5	8.2	7.0	7.5	7.9	7.1	7.5
		JUNE			JULY			AUGUST		5	SEPTEMBE	R
1 2 3 4 5	7.8 7.8 7.9 7.9 7.9	JUNE 7.6 7.6 7.6 7.7	7.7 7.7 7.8 7.8 7.8	7.7 7.6 7.7 7.7	JULY 7.5 7.5 7.5 7.5 7.5	7.6 7.6 7.6 7.6 7.6	7.6 7.7 7.7 7.9 7.7		7.5 7.5 7.6 7.7 7.6		7.8 7.8 7.8 7.8 7.6 7.7	7.9 7.9 7.9 7.8 7.8
2 3 4	7.8 7.9 7.9	7.6 7.6 7.6 7.7	7.7 7.8 7.8	7.6 7.7 7.7	7.5 7.5 7.5 7.5	7.6 7.6	7.6 7.7 7.7	7.5 7.4 7.4 7.4	7.5 7.6 7.7	8.1 8.0 8.0 7.9	7.8 7.8 7.8 7.6	7.9 7.9 7.9 7.8
2 3 4 5 6 7 8 9	7.8 7.9 7.9 7.9 8.3 8.2 7.9 8.0	7.6 7.6 7.7 7.7 7.8 7.9 7.8 7.9	7.7 7.8 7.8 7.8 7.8 8.0 7.9	7.6 7.7 7.7 7.7 7.7 7.8 7.7	7.5 7.5 7.5 7.5 7.5 7.4 7.4 7.5	7.6 7.6 7.6 7.6 7.6 7.6	7.6 7.7 7.7 7.9 7.7 7.7 7.7 7.7	7.5 7.4 7.4 7.2 7.5 7.5 7.6 7.6	7.5 7.6 7.7 7.6 7.6 7.6 7.7	8.1 8.0 8.0 7.9 7.9 7.9 7.9 8.0	7.8 7.8 7.8 7.6 7.7 7.7 7.7 7.7	7.9 7.9 7.9 7.8 7.8 7.8 7.8 7.8
2 3 4 5 6 7 8 9 10 11 12 13 14	7.8 7.9 7.9 7.9 8.3 8.2 7.9 8.0 7.9 7.9 8.0 8.0	7.6 7.6 7.6 7.7 7.7 7.8 7.9 7.8 7.9 7.8 7.7 7.7	7.7 7.8 7.8 7.8 7.8 8.0 7.9 8.0 7.9 7.8 7.8	7.6 7.7 7.7 7.7 7.8 7.7 7.7 7.8 7.7	7.5 7.5 7.5 7.5 7.4 7.4 7.4 7.4 7.4	7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.5 7.5 7.6	7.6 7.7 7.7 7.9 7.7 7.7 7.7 7.7 7.8 7.8 7.8 7.8 7.8	7.5 7.4 7.4 7.2 7.5 7.6 7.6 7.6 7.6	7.5 7.6 7.7 7.6 7.6 7.7 7.7 7.7 7.7 7.7	8.1 8.0 8.0 7.9 7.9 7.9 7.9 8.0 8.0	7.8 7.8 7.6 7.7 7.7 7.7 7.7 7.5 7.5 7.5	7.9 7.9 7.8 7.8 7.8 7.8 7.8 7.8 7.9 7.8 7.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	7.8 7.9 7.9 7.9 8.3 8.2 7.9 8.0 7.9 7.9 8.0 7.9 7.9 7.9	7.6 7.6 7.7 7.7 7.8 7.9 7.8 7.9 7.8 7.7 7.7 7.7 7.7	7.7 7.8 7.8 7.8 7.8 8.0 7.9 8.0 7.8 7.8 7.8 7.8 7.8 7.8	7.6 7.7 7.7 7.7 7.8 7.7 7.7 7.8 7.7 7.7 7.7 7.8 7.9 6 7.9	7.55 7.55 7.55 7.44 7.5 7.44 7.44 7.5 7.5 7.66 7.54 6.9	7.6 7.6 7.6 7.6 7.6 7.6 7.5 7.5 7.6 7.6 7.6 7.6 7.6	7.6 7.7 7.7 7.9 7.7 7.7 7.7 7.7 7.8 7.8 7.8 7.8 7.8 7.8	7.54 7.4 7.4 7.2 7.55 7.66 7.6 7.67 7.7 7.7	7.5 7.6 7.7 7.6 7.6 7.7 7.7 7.7 7.7 7.7 7.7	8.1 8.0 8.0 7.9 7.9 7.9 7.9 7.9 8.0 8.0 7.9 7.9 7.9	7.8 7.8 7.8 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.5 7.5 7.5 7.6	7.9 7.9 7.8 7.8 7.8 7.8 7.8 7.7 7.7 7.7 7.7 7.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	7.8 7.9 7.9 7.9 8.3 8.2 7.9 8.0 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	7.6 7.6 7.7 7.7 7.8 7.9 7.8 7.9 7.8 7.7 7.7 7.7 7.7 7.7 7.7 7.7	7.7 7.8 7.8 7.8 7.8 8.0 7.9 8.0 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	7.6 7.7 7.7 7.7 7.8 7.7 7.8 7.7 7.8 7.7 7.7	7.55 7.55 7.55 7.44 7.55 7.44 7.55 7.55 7.55 7.44 7.57 7.57 7.57	7.6 7.6 7.6 7.6 7.6 7.6 7.5 7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7	7.6 7.7 7.7 7.9 7.7 7.7 7.7 7.7 7.8 7.8 7.8 7.8 7.8 7.8	7.54 7.4 7.4 7.2 7.55 7.66 7.67 7.67 7.70 7.77 8.0 8.0 8.0 8.0 8.0	7.5 7.6 7.7 7.6 7.6 7.7 7.7 7.7 7.7 7.7 7.7	8.1 8.0 8.0 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	7.8 7.8 7.8 7.6 7.7 7.7 7.7 7.7 7.7 7.5 7.5 7.6 7.5 7.6 7.6 7.5	7.9 7.9 7.8 7.8 7.8 7.8 7.7 7.7 7.7 7.7 7.7 7.7

07105530 FOUNTAIN CREEK BELOW JANITELL ROAD, BELOW COLORADO SPRINGS, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	VEMBER		DI	ECEMBER			JANUARY	
1 2 3 4 5	17.9 16.0 16.8 17.2 18.0		14.9 14.0 14.0 14.6 14.6	13.6 14.1 13.3 14.5 13.7	3.2 7.1 7.2 8.0 6.9	10.7 11.0 10.9 11.8 10.8	11.9 10.5 12.6 10.4 10.7	6.0 5.1 6.1 5.7 6.0	8.7 8.1 8.7 7.6 8.3	10.5 11.4 12.1 10.1 9.6	5.4 5.7 6.6 4.2 3.9	7.9 8.6 9.3 7.4 6.8
6 7 8 9 10	18.3 17.7 17.8 17.2 17.4		15.1 14.9 14.8 14.4 14.6		6.4 6.8	9.6 8.7 8.9 10.2 10.7	10.7 10.1 11.6 11.3 11.2 11.7	6.0 4.7 6.5 5.5 7.1		8.7 10.7 8.6 8.4 7.1	3.0 3.2 4.4 3.1 2.6	6.1 6.8 6.3 5.5 5.2
11 12 13 14 15	18.2 18.5 18.4 17.6 16.8	11.9 11.8 11.7 11.7	15.3 15.4 15.3 15.0 14.8	13.4 13.2 13.5 12.0 11.6	6.5 7.1 6.1 8.8 7.3	10.6 10.8 11.3 10.8	11.6 11.2 10.8 10.2 10.3	6.3 5.4 5.7 5.5 4.6	9.5 8.9 8.8 7.6 7.3	8.7 8.5 8.8 9.3 9.3	3.6 1.9 2.9 4.5 5.0	5.8 5.4 6.5 7.1 6.8
16 17 18 19 20	17.3 14.7 15.1 16.2 13.6	9.0 7.4	14.6 12.5 12.0 13.0 11.6	11.1 12.2 11.9 14.0 14.1	6.8 6.9 5.5 7.8 8.4	9.0 9.1 9.6 11.5 11.8	9.7 10.4 9.6 9.7 8.9	5.6 4.8 6.4 5.6 5.1	7.1 7.8 7.7 7.7 7.3	8.0 9.3 9.3 9.2 9.4	3.4 4.5 4.4 3.7 3.3	6.3 6.6 6.5 6.0 6.4
21 22 23 24 25	12.3 13.0 13.9 14.3 14.1	5.8 5.6 6.8 5.1 8.8	9.5 10.1 11.1 11.6 11.8	13.1 13.8 11.9 12.6 12.5	7.9 8.4 8.3 7.1 6.8	11.1 11.8 10.0 10.1 10.2	9.9 9.4 8.9 9.2 9.2	5.3 4.8 4.3 5.2 4.8	7.5 7.0 6.9 7.4 7.0	9.0 9.4 9.6 9.8 10.2	3.9 4.2 4.3 4.3	6.5 7.0 7.1 7.2 7.0
26 27 28 29 30 31		8.4 6.2 6.4 6.9 7.1	11.1 8.5 10.9 11.1 11.3 10.5	11.5 11.8 12.5 11.8 11.1		9.4 8.9 9.0 9.1 8.3	9.1 9.6 10.1 10.5 10.3 10.9		7.1 7.2 7.1 7.4 7.8 8.2	10.3 9.3 10.1 9.7 10.9 11.4	4.2 4.4 4.3 5.3 5.6 5.7	7.3 7.4 7.3 7.8 8.4 9.1
MONTH	18.5	5.1	13.0	14.5	3.2	10.2	12.6	4.3	7.9	12.1	1.9	6.9
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	11.9 11.3 10.8 11.0 10.1	6.2 5.6 5.8 5.3 4.6	9.3 8.9 8.6 8.0	11.0 12.1 11.6 9.7 11.5	4.4 4.2 4.8 4.5	7.1 8.2 8.7 7.5	14.2 12.1 15.2 14.7 11.5	9.3 5.3 7.1	12.1 8.8 11.4 11.7	11.4 10.4 12.6	5.0 3.7 3.5 5.8	8.3 7.2 8.2 10.3
6 7 8			, . ,	11.5	4.7	8.2	14.7 11.5	9.5 6.1	11.7 9.0	15.2 15.3	7.0	10.9
9 10	9.3 10.0 10.7 10.8 10.6	5.0 4.0 4.7 4.6 4.7	7.1 7.1 7.2 7.5 7.6		4.4 5.7 6.0 6.5		14.7 11.5 13.5 14.5 12.3 12.7 9.5		9.5 10.2 9.9 9.1 8.1			9 5
9	10.6 8.6 10.3	5.0 4.0 4.7 4.6 4.7 4.0 4.4 5.0 4.0 4.4	7.1 7.1 7.2 7.5		4.4 5.7 6.0 6.5 6.3	9.3 10.0 10.2 10.1		5.1 5.5 7.4 5.2 5.9	9.0 9.5 10.2 9.9 9.1	15.3 11.9 10.9 10.9 14.2	7.0 6.6 7.1 6.0 6.0	9.5 9.1 8.5 9.6 10.1
9 10 11 12 13 14	10.6 8.6 10.3 10.9	4.0 4.4 5.0 4.0	7.1 7.1 7.2 7.5 7.6 7.7 7.2 7.9 7.7	13.1 13.6 13.6 13.2 13.0 14.2 13.6 13.6 10.9	4.4 5.7 6.0 6.5 6.3 6.5 7.4 7.4 5.2	8.2 9.3 10.0 10.2 10.1 10.2 10.8 11.0 10.5 8.5	13.5 14.5 12.3 12.7 9.5 10.9 12.3 13.9 15.1	5.1 5.5 7.4 5.2 5.9 4.5 4.7 4.0	9.0 9.5 10.2 9.9 9.1 8.1 7.6 8.2 9.5 10.2	15.3 11.9 10.9 10.9 14.2 13.6 12.5 14.3 13.3 13.2	7.0 6.6 7.1 6.0 6.7 7.0 6.5 6.9 7.6	9.5 9.1 8.5 9.6 10.1 9.5 10.0 10.4
9 10 11 12 13 14 15 16 17 18 19	10.6 8.6 10.3 10.9 11.8 12.3 12.5 11.9 12.5	4.0 4.4 5.0 4.0 4.4 4.5 5.6 5.9	7.1 7.2 7.5 7.6 7.7 7.2 7.9 7.7 8.2 8.8 9.5 9.9	13.1 13.6 13.6 13.2 13.0 14.2 13.6 13.6 10.9 12.4 14.2 13.5 14.7	4.4 5.7 6.0 6.5 6.3 6.5 7.4 7.4 5.2 6.1 5.8 8.2 7.1	8.2 9.3 10.0 10.2 10.1 10.2 10.8 11.0 10.5 8.5 9.1 10.2 11.0	13.5 14.5 12.3 12.7 9.5 10.9 12.3 13.9 15.1 15.5 17.2 18.2 17.6 17.1	5.1 5.5 7.4 5.2 5.9 4.5 4.7 4.0 4.1 7.7 6.2 10.0	9.0 9.5 10.2 9.9 9.1 8.1 7.6 8.2 9.5 10.2 11.5 12.7 13.2 13.4 13.9	15.3 11.9 10.9 10.9 14.2 13.6 12.5 14.3 13.3 13.2 15.6 16.7 14.6 11.7	7.0 6.6 7.1 6.0 6.7 7.0 6.9 7.6 8.0 8.6 9.2 8.7	9.5 9.1 8.5 9.6 10.1 9.5 10.0 10.4 10.7 11.9 12.4 12.6 12.0 9.6
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	10.6 8.6 10.3 10.9 11.8 12.3 12.5 11.9 12.5 11.0	4.0 4.4 5.0 4.0 4.4 4.5 5.5 6.6 5.9 6.1 5.8 4.7 5.0 4.4	7.1 7.2 7.5 7.6 7.7 7.2 7.9 7.7 8.2 8.8 9.9 10.0 9.1 8.2 7.8 6.8	13.1 13.6 13.6 13.2 13.0 14.2 13.6 10.9 12.4 14.2 13.5 14.7 15.6 15.2	4.4 5.7 6.0 6.5 6.3 6.5 7.4 7.4 5.2 6.1 5.8 8.2 7.1 7.1 8.6	8.2 9.3 10.0 10.2 10.1 10.2 10.8 11.0 10.5 8.5 9.1 10.2 11.0 11.2 11.9 12.4	13.5 14.5 12.3 12.7 9.5 10.9 12.3 13.9 15.1 15.5 17.2 18.2 17.6 17.1 17.4	5.1 5.5 7.4 5.2 5.9 4.5 4.7 4.0 4.1 7.7 6.2 7.2 10.0 10.3	9.0 9.5 10.2 9.9 9.1 8.1 7.6 8.2 9.5 10.2 11.5 12.7 13.4 13.9 14.0 12.2 11.0 11.7 2.8	15.3 11.9 10.9 10.9 14.2 13.6 12.5 14.3 13.3 13.2 15.6 16.7 14.6 11.7 16.6	7.0 6.6 7.1 6.0 6.7 7.0 6.9 7.6 8.6 9.7 7.1 9.6 8.5 8.5	9.5 9.1 8.5 9.6 10.1 9.5 10.0 10.4 10.7 11.9 12.4 12.6 12.0 9.6 11.4 11.8 11.2 11.2

07105530 FOUNTAIN CREEK BELOW JANITELL ROAD, BELOW COLORADO SPRINGS, CO--Continued

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

				TEMPERATO	JRE, WAII	ER (DEG. C), WAIER YEA	AR OCTOB	EK 1996 10) SEPTEMBEI	K 1997	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		i	AUGUST			SEPTEMBE	R
1 2 3 4 5	17.9 16.7 17.9 19.1 17.4	11.1 11.7 11.2 11.0 12.4	14.5 13.8 14.2 14.8 14.5	20.6 19.0 19.7 19.8 18.8	12.4 12.1 12.4 12.3	16.3 15.5 15.7 15.5	18.9 20.9 22.1 21.8 18.5	15.9 15.3 14.2 15.6 16.1	17.8 17.1 17.8 18.3 17.0	20.1 19.9 18.3 20.5 20.4	15.2 15.2 16.3 15.5 14.5	17.6 17.5 17.2 17.9 17.5
6 7 8 9 10	18.6 14.6 13.7 13.1 11.9	9.1 11.0 10.8 9.2 9.9	14.2 12.3 11.7 10.9 10.7	18.6 17.9 18.1 	12.8 12.1 12.9	15.7 15.3 15.2	16.9 18.0 19.4 17.6 15.4	13.9 12.5 12.6 13.3 14.1	15.1 15.0 15.8 15.3 14.8	20.2 20.5 20.8 19.3 20.9	14.5 13.8 13.8 14.5 14.0	17.3 17.0 17.1 16.5 17.2
11 12 13 14 15	13.0 13.5 14.2 15.7 12.5	9.0 9.1 9.9 11.5 10.3	11.0 11.2 12.2 13.4 11.4	19.8 21.6 21.6 23.4 24.1	13.2 13.6 14.1 15.3	17.1 17.5 18.3 19.3	18.7 18.7 19.0 19.0 20.1	13.8 10.2 12.4 11.2 12.5	16.1 15.3 15.7 15.5 16.1	19.5 20.4 20.9 20.8 20.5	13.9 13.8 15.1 15.5 15.2	16.9 17.8 18.0 18.3 17.4
16 17 18 19 20	14.6 14.9 16.2 17.4 18.1	9.5 9.9 10.5 11.7 11.6	11.8 12.3 13.7 14.4 14.7	23.1 22.4 22.9 21.4 20.0	15.2 14.8 15.8 17.0 14.9	18.7 18.6 19.3 18.8 16.7	19.5 19.4 19.4 19.5 19.4	13.2 13.7 14.4 13.0 13.0	16.2 16.1 16.5 16.1 16.0	20.6 16.7	 13.6	 14.7
21 22 23 24 25	18.0 18.5 17.3 18.1 17.7	11.8 12.4 12.4 12.3 12.0	14.7 15.3 14.9 15.0 14.6	21.4 22.4 24.2 24.8 22.1	13.5 14.8 15.7 16.9 16.4	17.1 18.0 19.5 20.4 18.9	21.7 21.5 22.6 22.2 22.0	13.5 14.1 14.6 14.7 16.0	17.2 17.5 18.3 18.2 18.8	15.3 16.8 15.7 18.6 18.9	12.1 13.7 12.9 12.8 12.6	13.9 15.4 14.5 15.7 16.0
26 27 28 29 30 31	18.0 17.2 18.4 19.3 19.8	11.8 11.7 11.7 12.1 12.2	14.5 14.3 14.8 15.4 15.8	23.9 23.8 20.7 20.4 19.9 21.7	16.0 15.9 15.6 16.0 16.2	19.2 19.0 17.8 18.0 17.8	20.4 21.7 22.5 20.3 19.0 20.7	15.2 15.2 16.3 16.0 15.4 14.9	17.8 18.2 19.0 18.3 17.2	19.2 20.2 19.0 19.4 19.5	13.3 14.4 13.4 12.8 13.2	16.7 17.4 16.5 16.4 16.8
MONTH	19.8	9.0	13.6				22.6	10.2	16.8			

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	VEMBER		DE	CEMBER			JANUARY	
1 2 3 4 5	7.7 8.2 8.5 8.2 8.5	6.3 6.7 6.9 6.9	7.0 7.5 7.7 7.5 7.6	9.3 9.3 8.8 9.4	7.1 7.2 7.1 7.2	8.1 8.0 7.8 8.2	10.1 10.3 10.1 10.3 10.0	8.6 8.8 8.3 9.0 8.8	9.1 9.3 9.2 9.7 9.4	9.9 9.3 8.8 9.9 9.7	8.2 7.6 7.4 7.9 7.9	8.8 8.4 8.1 8.7 8.8
6 7 8 9 10	8.2 8.3 8.3 8.4 8.2	6.9 6.9 6.9 7.0 6.8	7.5 7.5 7.6 7.5 7.4	9.5 10.3 10.6 10.0 9.9	8.0 8.3 8.3 7.8 7.5	8.6 9.1 9.2 8.8 8.5	10.3 11.0 10.3 11.1 10.0	9.0 9.0 9.1 8.3 8.6	9.4 9.7 9.6 9.5 9.2	10.2 9.7 9.4 9.9 10.3	8.5 7.8 8.3 8.7 8.6	9.1 8.6 8.8 9.3 9.3
11 12 13 14 15	7.8 8.0 7.9 8.0	6.8 6.4 6.7 6.8 7.0	7.3 7.3 7.3 7.5 7.5	9.9 9.7 10.3 8.9 9.6	7.5 7.7 7.6 7.8 8.1	8.5 8.5 8.2 8.2	10.2 10.7 10.4 10.9	8.4 8.4 8.5 9.0 8.7	9.2 9.4 9.3 9.7	9.8 10.7 10.0 9.2 9.2	8.5 8.3 8.0 8.1 8.2	9.1 9.2 8.8 8.6 8.7
16 17 18 19 20	7.8 8.4 9.3 8.2 7.9	6.6 7.0 6.6 6.0	7.2 7.7 7.8 7.2 7.3	10.1 9.9 10.4 9.2 8.7	8.6 8.4 7.9 7.0 7.0	9.2 9.1 8.9 8.0 7.8	9.9 10.1 9.5 9.5 9.9	8.7 8.2 8.3 8.4 8.5	9.4 9.0 8.8 8.9 9.0	9.9 9.4 9.9 10.2 9.9	8.2 8.3 8.4 8.6 8.2	8.9 8.8 9.1 9.2 8.9
21 22 23 24 25	9.5 8.6 8.5 8.8 8.4	7.2 6.1 7.0 6.8 6.9	8.1 7.3 7.5 7.6 7.5	9.1 8.6 8.9 9.5 9.5	7.4 7.0 7.4 7.8 7.6	8.1 7.7 8.2 8.5 8.4	9.8 10.2 10.3 9.9 10.3	8.4 8.6 8.6 8.2 8.4	8.9 9.1 9.2 8.9 9.0	9.6 9.5 9.5 9.6	8.3 7.9 8.2 8.3 8.2	8.8 8.6 8.7 8.9
26 27 28 29 30 31	8.7 8.8 9.1 	6.9 7.1 6.8 	7.5 8.0 8.0 	9.7 9.7 9.7 9.9 10.4	8.0 8.5 8.0 8.2 8.6	8.7 9.0 8.8 8.9 9.2	10.1 9.8 10.3 10.3 9.8 9.6	7.8 8.1 8.6 8.4 8.4	8.9 9.1 9.2 9.1 8.9 8.8	10.3 9.7 9.8 9.7 9.2 9.4	8.2 8.5 8.4 8.5 8.1 7.9	9.0 9.0 9.1 9.0 8.7 8.6
MONTH							11.1	7.8	9.2	10.7	7.4	8.9

07105530 FOUNTAIN CREEK BELOW JANITELL ROAD, BELOW COLORADO SPRINGS, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	9.2 9.6 9.3 9.5 9.6	7.8 7.9 8.0 8.4 8.6	8.5 8.6 8.6 8.9 9.0	9.7 10.0 9.7 10.1 9.6	7.9 7.5 7.8 8.8 8.1	9.0 8.7 8.6 9.3 8.9	8.3 10.0 8.9 7.9 9.2	6.8 6.5 6.7 6.9 7.5	7.5 8.1 7.7 7.1 8.2	8.3 9.5 10.2 8.9 9.5	6.6 6.0 6.0 6.5 6.3	7.5 7.2 7.7 8.0 7.9
6 7 8 9 10	9.5 9.9 9.8 9.7 9.7	8.6 8.7 8.4 8.2 8.5	9.1 9.3 9.2 9.0 9.0		7.6 7.3 7.3 7.4 6.9	8.7 8.3 8.2 8.2 7.9	10.0 9.4 9.0 9.3 9.4	7.2 7.0 7.6 7.9 8.3	8.4 8.1 8.2 8.5 8.9	9.9 9.2 9.8 9.4 9.7	7.6 6.4 7.9 7.6 7.4	8.7 8.0 8.9 8.5 8.6
1.4	9.8 9.8 9.5 9.8 9.9	8.2 8.7 8.2 8.5 8.1	8.9 9.1 8.9 9.0 8.9	9.0 8.3 8.7 9.7 8.9	6.6 6.9 7.3 7.9	7.5 7.5 7.9 8.7 8.4	9.7 9.5 9.8 10.0 10.9	8.5 8.1 6.4 6.8 6.8	8.7 8.6 8.5 8.0	9.7 9.7 9.6 9.0 8.9	7.9 6.9 7.4 7.6 7.3	8.7 8.1 8.3 8.1 8.2
19	10.1 9.5 9.0 9.4 9.1	7.9 7.7 7.7 7.7 8.0	8.8 8.4 8.3 8.3	9.5 8.6 9.3 9.0 8.6	7.1 7.1 7.3 6.9 7.1	8.2 7.9 8.1 7.8 7.8	9.6 10.3 9.8 8.5 8.4	6.5 6.2 6.0 5.8 5.7	7.7 7.6 7.5 7.0 6.9	9.1 8.9 8.7 9.0 9.5	7.1 7.3 7.4 8.0 7.4	8.0 7.9 8.0 8.7 8.5
24	9.3 9.7 9.6 9.8 9.3	8.4 8.0 8.3 8.4 7.8	8.8 8.9 9.2 9.1 8.7	8.7 9.0 9.0 9.5 9.7	7.0 7.2 7.1 7.5 7.5	7.8 7.9 7.9 8.5 8.6	8.1 8.6 	5.9 5.9 	6.9 6.8 	9.0 9.0 9.5 9.4 9.4	7.9 8.0 7.9 8.1 7.9	8.5 8.6 8.6 8.7 8.6
26 27 28 29 30 31	9.8 9.4 10.0 	8.1 8.2 8.2 	8.8 8.8 9.0 	9.2 8.8 9.1 8.5 9.4 8.7	6.9 7.0 7.1 7.4 7.0 6.7	7.9 7.8 8.0 8.0 8.0 7.6	10.3 10.2 9.2 8.4 8.7	7.8 6.1 5.7 6.5 6.1	9.0 8.5 7.5 7.6 7.6	9.5 10.3 10.1 9.4 9.4 9.3	7.9 8.3 8.0 8.2 7.8 7.2	8.7 9.2 9.0 8.8 8.6 8.1
MONTH	10.1	7.7	8.8	10.1	6.6	8.2				10.3	6.0	8.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN		JULY	MEAN	1	AUGUST	MEAN		MIN SEPTEMBE	
DAY 1 2 3 4 5	MAX 8.8 8.7 8.9 8.8 8.3		MEAN 8.0 8.2 8.1 7.9 7.8			MEAN 6.7 6.6 6.3 6.7 6.8	1	AUGUST	7.4 7.6 7.4 7.2 7.5		SEPTEMBE	
1 2 3 4	8.8 8.7 8.9 8.8	JUNE 6.9 7.6 7.5 7.1	8.0 8.2 8.1 7.9	7.6 7.2 7.0 7.3	JULY 6.1 6.0 5.7 5.9	6.7 6.6 6.3 6.7	7.7 8.0 8.1 7.7	6.7 7.0 6.6 6.6	7.4 7.6 7.4 7.2	7.7 7.7 7.3 7.6	6.7 6.6 6.8 6.5	7.2 7.1 7.1 7.0
1 2 3 4 5 6 7 8 9	8.8 8.7 8.9 8.8 8.3 9.1 9.1 9.1	JUNE 6.9 7.6 7.5 7.1 7.3 7.0 6.1	8.0 8.2 8.1 7.9 7.8 7.6	7.6 7.2 7.0 7.3 7.5 7.7 8.1 8.1	JULY 6.1 6.0 5.7 5.9 6.1 6.0 6.9 6.1	6.7 6.6 6.3 6.7 6.8 6.9 7.3 7.4	7.7 8.0 8.1 7.7 7.7 8.2 8.6 8.7 8.5	6.7 7.0 6.6 6.6 7.3 7.4 7.3 7.2 7.5	7.4 7.6 7.4 7.2 7.5 7.8 8.0 7.9 8.0	7.7 7.7 7.3 7.6 7.7 8.0 8.2 8.1 7.9	6.7 6.6 6.8 6.5 6.8 6.8 6.8 6.6 7.0	7.2 7.1 7.1 7.0 7.2 7.4 7.5 7.4 7.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.8 8.7 8.9 8.8 8.3 9.1 9.1 9.8 9.9	JUNE 6.9 7.6 7.5 7.1 7.3 7.0 6.1 6.6	8.0 8.2 8.1 7.9 7.8 7.6 6.6 7.5	7.6 7.2 7.0 7.3 7.5 7.7 8.1 8.1 7.5 8.1 7.8 7.6	JULY 6.1 6.0 5.7 5.9 6.1 6.0 6.9 6.1 6.9 6.7 6.5 6.0	6.7 6.6 6.3 6.7 6.8 6.9 7.3 7.4 7.3 7.3 7.1	7.7 8.0 8.1 7.7 7.7 8.2 8.6 8.7 8.5 8.3 8.2 9.6 8.8 8.4	6.7 7.0 6.6 6.6 7.3 7.4 7.3 7.5 7.6	7.4 7.6 7.4 7.2 7.5 7.8 8.0 7.9 8.0 8.0 7.7 8.0 7.7	7.7 7.7 7.3 7.6 7.7 8.0 8.2 8.1 7.9 8.0	SEPTEMBE 6.7 6.6 6.8 6.5 6.8 6.8 6.8 6.6 7.0 6.6 6.7 6.3 6.2 6.0	7.2 7.1 7.0 7.2 7.4 7.5 7.4 7.3 7.2 6.9 6.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.8 8.7 8.9 8.8 8.3 9.1 9.1 9.8 9.9 7.7 	JUNE 6.9 7.6 7.5 7.1 7.3 7.0 6.1 6.6 6.0	8.0 8.2 8.1 7.9 7.8 7.6 6.6 7.5 6.9 	7.6 7.2 7.0 7.3 7.5 7.7 8.1 8.1 7.5 8.1 7.6 7.2 7.0 7.2 7.1 7.3	JULY 6.1 6.0 5.7 5.9 6.1 6.0 6.9 6.1 6.9 6.7 6.5 6.0 5.9 6.1 6.2 6.4	6.7 6.8 6.7 6.8 6.9 7.3 7.4 7.3 7.1 6.9 6.6 6.6 6.6 6.8	7.7 8.0 8.1 7.7 7.7 8.2 8.6 8.7 8.5 8.3 8.2 9.6 8.8 8.4 7.8	6.7 7.0 6.6 6.6 7.3 7.4 7.3 7.5 7.6 7.1 7.3 7.1 6.9 6.4	7.4 7.6 7.4 7.2 7.5 7.8 8.0 7.9 8.0 8.0 7.7 8.0 7.8 7.6 7.1	7.7 7.7 7.3 7.6 7.7 8.0 8.2 8.1 7.9 8.0 8.0 7.9 7.5 7.3 7.1	SEPTEMBE 6.7 6.8 6.5 6.8 6.8 6.8 6.8 6.6 7.0 6.6 6.7 6.3 6.2 6.0 6.4	7.2 7.1 7.1 7.0 7.2 7.4 7.5 7.4 7.3 7.2 6.9 6.6 6.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	8.8 8.7 8.9 8.8 8.3 9.1 9.1 9.8 9.9 7.7 9.5 9.5 9.1 8.9	JUNE 6.9 7.6 7.5 7.1 7.3 7.0 6.1 6.6 6.0 6.3 6.1 5.8 6.1	8.0 8.2 8.1 7.9 7.8 7.6 6.6 7.5 6.9 7.5 7.1	7.6 7.2 7.0 7.3 7.5 7.7 8.1 8.1 7.5 8.1 7.6 7.2 7.0 7.2 7.1 7.3 8.1 8.7	JULY 6.1 6.0 5.7 5.9 6.1 6.0 6.9 6.1 6.9 6.7 6.0 5.9 6.1 6.0 5.9 6.1 6.0 6.3 6.6	6.7 6.8 6.7 6.8 6.9 7.3 7.4 7.3 7.1 6.9 6.6 6.6 6.6 6.8 7.6	7.7 8.0 8.1 7.7 7.7 8.2 8.6 8.7 8.5 8.3 8.2 9.6 8.8 8.4 7.8 7.6 7.5 8.1	AUGUST 6.7 7.0 6.6 6.6 7.3 7.4 7.3 7.5 7.6 7.1 7.3 7.1 6.9 6.4 6.5 6.1 6.0	7.4 7.6 7.4 7.2 7.5 7.8 8.0 7.9 8.0 8.0 7.7 8.0 7.6 7.1	7.7 7.7 7.3 7.6 7.7 8.0 8.2 8.1 7.9 8.0 8.0 7.9 7.5 7.3 7.1	SEPTEMBE 6.7 6.8 6.8 6.5 6.8 6.8 6.8 6.6 7.0 6.6 6.7 6.2 6.0 6.4 6.9 7.5 7.2 7.4 6.7	7.2 7.1 7.0 7.2 7.4 7.5 7.4 7.3 7.2 6.8 6.6 6.8 7.9

07105533 FOUNTAIN CREEK AT CIRCLE DRIVE BELOW COLORADO SPRINGS, CO WATER-QUALITY RECORDS

 $LOCATION.--Lat~38^{o}47'49", long~104^{o}47'06", in~SE^{1}/4SW^{1}/4~sec.28, T.14~S., R.66~W., El~Paso~County, Hydrologic~Unit~11020003, approximately~100~ft~downstream~from~Circle~Drive~below~Colorado~Springs.$

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

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)			ND- ATU NATUS) (DEC	JRE I TER SO 3 C) (1	GEN, DIS- DLVED MG/L)	OXYGI DEMAI BIO- CHEI ICAI 5 DZ (MG,	ND, FOR - FEC M- 0.7 L, UM- AY (COL /L) 100	M, TOCO AL, FEC KF A MF (COL S./ PE ML) 100	CCI AL, CALC GAR DIS S. SOL R (MG ML) AS	- DIS- VED SOLVED /L (MG/L CA) AS MG)
OCT 23	1430	108	688	8.0) 14.	.0 8	3.1	5.6	5 26	0 10	0 50	15
NOV 22	0900	115	740	7.6	5 11.	.5 8	3.7	11	9	3 12	0 49	15
DEC 12 JAN	1330	66	776	8.0) 11.	. 5	3.7	4.3	2 33	0 6	7 57	17
24 FEB	0915	54	839	7.7	7 5.	.0 10	.4	6.	5 12	0 9	0 61	19
20 MAR	1445	90	777	7.8	3 10.	.5 8	8.8	17	15	0 35	0 49	15
20 MAY	1415	81	734	7.8	3 15.	. 5	7.9	7.	7 34	0 K5	8 42	14
01	1545 1515	165 199	516 427	7.9			3.2 3.4	2.7				
JUN 26	1430	282	379	8.1			7.5	1.1				
JUL 24	1415	79	786	8.2	2 30.	.0	5.3	4.	1 18	0 17	0 59	21
AUG 14	1415	223	526	8.2	2 19.	.0	7.3	2.4	4 35	0 40	0 41	13
SEP 18	1445	120	685	8.0) 21.	.0	5.8	e5.	7 24	0 26	0 51	18
DATE	LIN I (M CA	AB D MG/L S AS (1 ACO3) AS	LFATE FIS- IOLVED SMG/L (SO4)	CHLO- RIDE, DIS- SOLVED MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	RESIDUE TOTAL AT 105 DEG. C SUS- PENDED (MG/L) (00530	NIT SC (M	TRO- GEN, TRITE DIS- DLVED IG/L GN)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 23 NOV	105	5 1	50	34	1.8	31	7 C	.25	5.6	0.80	1.4	0.46
22 DEC	103	3 1	50	38	1.9	4	Ł C	.31	4.9	0.56	4.3	0.26
12 JAN	118	3 1	70	44	1.8	30) (.01	0.12	<0.015	<0.2	<0.01
24 FEB	120) 1	80	46	1.8	16	5 0	.24	4.5	2.2	3.5	1.2
20 MAR	103	3 1	70	49	1.9	42	2 0	.21	3.7	4.6	5.7	0.26
20 MAY	90) 1	50	41	1.8	3.	7 C	.22	2.3	6.2	8.6	0.03
01 29	82 76		10 87	28 18	2.5	9 (3 4		0.082 0.031	1.75 1.76	1.08 0.059	1.8 0.42	0.120 0.179
JUN 26	74	ŀ	73	14	2.5	123	3 C	.028	1.21	0.337	0.64	0.032
JUL 24	126	5 1	90	36	2.0	23		.220	3.90	0.370	1.4	0.053
AUG 14	94	l 1	10	22	2.3	119	9 0	.048	1.93	0.136	0.77	0.120
SEP 18	112	2 1	70	32	2.0	34	. C	.034	3.19	0.110	0.71	0.080

e-Estimated. K-Based on non-ideal colony count.

07105533 FOUNTAIN CREEK AT CIRCLE DRIVE BELOW COLORADO SPRINGS, CO--Continued

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

DATE	CADMI WATH UNFLI TOTA (UG, AS (ER FRD AL /L CD)	CADMI DIS SOLV (UG/ AS (IUM 1 3- F 7ED F 1L (2D) 2	CHRO- MIUM, FOTAL RECOV- ERABLE (UG/L AS CR)	CHRO MIUM DIS- SOLV (UG/ AS (I, ED L CR)	CHROMIUM HEX. VALED (UG AS (010	M, A- NT, S. /L CR)	COPPI TOTA RECO ERAI (UG, AS (AL OV- BLE /L CU)	COPPE DIS- SOLV (UG/ AS (- /ED /L CU)	IRON TOTA RECO ERAN (UG AS 1	AL OV- BLE /L FE)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
OCT 23		<1	<1		<1	<1			<1		3	1			340	23
NOV 22		<1	<1		<1	<1			<1		5	2			320	46
DEC 12		<1	<1		1	<1			<1		4	1			360	27
JAN 24		<1	<1		1	<1			<1		4	2		!	570	37
FEB 20 MAR		<1	<1		1	<1			<1		4	2			370	23
20 MAY		<1	<1		1	<1			<1		4	2			700	21
01		<1 <1	<1 <1		2	<1 <1			<1 <1		4	<1 <1			500 300	8.9 9.0
JUN 26		<1	<1		1	<1			<1		4	<1			500	7.2
JUL 24		<1	<1		<1	<1			<1		2	1.	. 7		440	8.0
AUG 14		<1	<1		1	<1			<1		3	2.	. 0	2	200	5.2
SEP 18		<1	<1		<1	<1			<1		2	1.	. 3	!	510	16
	DATE	TO' REG ERA (UG	AD, FAL COV- ABLE G/L PB) 051)	LEAD, DIS- SOLVI (UG/I AS PI (01049	NE , TC - RE ED ER L (U B) AS	NGA- SE, TAL COV- ABLE G/L MN)	NES DI SOI (UC	IS- LVED H/L MN)	ERA (UG	CAL COV- ABLE S/L NI)	(UC	S- LVED S/L NI)	ERA (UC	TAL COV- ABLE G/L ZN)	ZIN DI SOL (UG AS (010	S- VED J/L ZN)
	3		2	<1		90	68	3	3	3	2		3	30	28	
	2		2	<1		90	75	5	3	3	2		4	10	24	
DEC 12 JAN	2		2	<1	1	00	70)	4	Į.	2		4	10	30	
	4		2	<1		80	65	5	3	3	2		3	30	28	
	0		2	<1	1	10	83	3	4	ł	3		5	50	31	
	0		2	<1		91	65	5	3	3	2.	3	Ę	50	30	
01	1 9		5 4	<1 <1		10	25 17		3		<1 <1			30 30	12 15	
JUN 26	5		6	<1	1	60	20)	2	2	<1		3	30	<3	
	4		1	<1		72	61	L	2	2	2.	5	3	30	22	
	4		4	1		98	24	1	3	3	<1		3	30	13	
SEP 18	3		<1	<1		66	47	7	5	i	4 .	. 2	3	30	30	

07105800 FOUNTAIN CREEK AT SECURITY, CO

LOCATION.--Lat 38^o43'46", long 104^o44'00", in NE¹/4SW¹/4 sec.24, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on left bank on upstream side of Carson Road bridge, 0.9 mi southwest of South Security School, 3.5 mi northeast of Fountain, and 5.5 mi upstream from Jimmy Camp Creek.

DRAINAGE AREA.--495 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR CO-85-1: 1984 (M).

GAGE.--Water-stage recorder with satellite telemetry, and crest-stage gage. Elevation of gage is 5,640 ft above sea level, from topographic map. Prior to Oct. 26, 1966, at site 60 ft upstream on right bank at datum 5.00 ft higher. Oct. 26, 1966 to July 18, 1972, at present site at datum 5.00 ft higher. July 19, 1972 to Feb. 20, 1980, at site 980 ft downstream on right bank at datum 1.00 ft lower. Feb. 21, 1980 to June 30, 1986, at present site at datum 5.00 ft higher. July 1, 1986 to Feb. 6, 1995 at present site at datum 2.00 ft higher. Feb. 7, 1995 to Nov. 29, 1995, at present site at datum 1.00 ft higher.

REMARKS.--Records fair except for estimated daily discharges, and those above 1500 ft³/s, which are poor. Natural flow of stream affected by storage reservoirs, power developments, ground-water withdrawals, diversions for irrigation of about 5,100 acres and for municipal use, return flow from irrigated areas, and flows from sewage treatment plants.

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

			DISCHAR	GE, CUBIC I			ATER YEAR (IEAN VALUE		96 TO SEP	TEMBER 1997		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	146	117	81	107	124	102	246	227	218	272	243
2	171	153	135	86	105	118	136	240	220	214	184	237
3 4	174 199	154 154	112 128	82 82	104 100	117 114	111 118	237 236	209 194	213 205	184 382	238 328
5	230	144	132	71	102	109	124	262	195	208	1140	305
6	190	141	139	79	100	113	124	273	867	199	626	345
7	170	138	130	67	102	111	122	247	e1700	185	369	316
8	167	142	134	84	104	107	120	277	1070	169	321	245
9	162	135	144	91	104	107	117	261	1680	170	350	239
10	163	134	126	98	103	106	111	250	e2900	179	490	207
11	157	140	122	95	111	105	102	225	1760	154	545	183
12 13	156 154	132 124	92 89	84 79	112 110	105 105	108 108	287 220	1520 1600	150 150	345 414	167 163
14	161	122	92	84	109	107	96	221	e3500	146	261	161
15	156	123	79	90	113	107	70	229	e1460	113	223	148
16	137	124	93	81	110	109	60	231	e1100	105	222	140
17	121	116	61	77	112	110	59	231	607	93	391	149
18	137	125	69	87	109	112	60	233	571	86	466	148
19	155	117	77	98	110	106	68	250	510	231	291	146
20	159	112	94	100	107	103	67	232	462	145	221	177
21	206	114	105	92	110	104	140	252	436	145	201	175
22 23	161 163	117 136	117 107	75 80	107 110	106 103	105 90	430 373	441 450	126 107	179 183	184 189
24	164	125	95	76	107	155	e802	279	598	102	171	167
25	162	120	96	78	107	116	e537	261	504	114	530	173
26	164	117	93	84	113	110	e582	271	455	209	431	184
27	213	132	101	88	111	108	e481	248	413	177	302	178
28	184	122	102	97	113	100	e380	242	354	406	285	163
29	177	130	91	107		106 108	244	307	306	558	255	151
30 31	158 150	125	88 87	105 107		108	256 	255 220	263	742 255	257 252	133
TOTAL	5195	3914	3247	2685	3012	3414	5600	8026	26572	6274	10743	5982
MEAN	168	130	105	86.6	108	110	187	259	886	202	347	199
MAX	230	154	144	107	113	155	802	430	3500	742	1140	345
MIN	121	112	61	67	100	100	59	220	194	86	171	133
AC-FT	10300	7760	6440	5330	5970	6770	11110	15920	52710	12440	21310	11870
STATIST	rics of Mo	NTHLY MEAN	I DATA FO	OR WATER Y	YEARS 1965	- 1997,	, BY WATER	YEAR (WY)				
MEAN	74.1	64.9	56.0	61.1	68.2	78.7	98.5	187	186	113	119	80.3
MAX	317	188	133	115	115	162	250	841	886	381	347	199
(WY) MIN	1985 12.6	1985 15.1	1986 17.8	1985 11.9	1996 14.1	1992 21.3	1985 23.7	1995	1997	1995	1997	1997 13.1
(WY)	1965	1965	1976	1976	1972	1965	1978	24.7 1966	17.8 1968	30.1 1972	23.5 1974	1968
	Y STATISTI			1996 CALEI			FOR 1997 W			WATER YE		
ANNUAL		.00	1010	52282	VDINC ILINC	-	84664	IIIIC IIIIC		WIIIIK II	1110 1703	1001
ANNUAL		IEAN		143			232			99.1 271		1995
	ANNUAL ME						_			31.5		1968
	C DAILY ME			874	May 25		e ₃₅₀₀	Jun 14		5650		17 1965
	DAILY MEA			57	Apr 26		59	Apr 17		1.9		1 1965
	SEVEN-DAY FANEOUS PE			76	Apr 24		69 a ₁₀₆₀₀	Apr 14 Jun 14		b ₂₅₀₀₀ 4.2		25 1965 24 1965
	TANEOUS PE						^C 10.08			d _{11.30}	Jul	24 1965
ANNUAL	RUNOFF (A	C-FT)		103700			167900			71800		
	CENT EXCEE			199			413			173		
	CENT EXCEE			117 90			145 91			70 23		
O FERC				20			シエ			43		

e-Estimated.

a-From rating curve extended above 6800 ft³/s, on basis of slope-area measurement of peak flow.

b-From rating curve extended above 2900 ft³/s, on basis of slope-area measurement of peak flow. c-From floodmark.

d-From floodmarks, site and datum then in use.

07105800 FOUNTAIN CREEK AT SECURITY, CO--Continued WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: October 1990 to current year. WATER TEMPERATURE: October 1990 to current year.

pH: October 1990 to current year.

DISSOLVED OXYGEN: October 1990 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Records for daily specific conductance are fair. Records for daily pH are fair. Records for daily water temperature are good. Records for daily dissolved oxygen are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 1,460 microsiemens, Mar. 6, 1996; minimum, 101 microsiemens, June 12, 1995.

pH: Maximum, 8.9 units Apr. 18-20, 1997; minimum 6.5 units, May 24-25, 1996. WATER TEMPERATURE: Maximum, 29.8°C, July 17, 1991; minimum, 0.0°C, on many days during winter months.

DISSOLVED OXYGEN: Maximum, 12.1 mg/L, Feb. 2, 1996; minimum, 3.5 mg/L, Aug. 9, 1992.

EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 1,190 microsiemens, Jan. 16, Mar. 1; minimum, 207 microsiemens, July 29-30.

pH: Maximum, 8.9 units Apr. 18-20; minimum, 7.1 units, Oct. 28-30, May 22-24. WATER TEMPERATURE: Maximum, 27.9°C, July 24; minimum, 0.0°C, several days.

DISSOLVED OXYGEN: Maximum, 12.0 mg/L, Mar. 9, 16; minimum, 4.0 mg/L, July 26.

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

DAY	MAX	MIN	MEAN									
		OCTOBER		NO	OVEMBER		DI	ECEMBER			JANUARY	•
1 2	752 733	709 681	730 717	798 792	747 764	771 777	902 889	791 774	836 811	979 957	867 800	905 879
3	743	707	724	792	764		903	774 818	811	957 946	814	879 897
4	755	361	717				881	816	848	948	814	879
5	743	361	648				900	817	859	985	854	902
3	7 13	301	010				500	017	035	203	031	302
6	752	711	731	793	731	760	860	812	832	946	828	888
7	765	726	743	789	739	758	927	831	860	1010	891	949
8	763	728	745	746	709	727	885	819	845	1070	913	982
9	766	730	750	765	720	743	858	773	808	966	877	918
10	765	725	745	778	730	750	900	830	857			
11	786	748	769	738	692	717	908	842	870			
12	783	757	768	754	700	720	933	866	890			
13	786	754	767	780	725	756	927	866	892			
14	830	758	787	800	756	774	943	862	892			
15	780	732	756	794	748	770	945	858	890			
16	814	766	795	818	753	777	956	871	902	1190	991	1100
17	841	780	810	859	770	801	983	850	930	1080	966	999
18	808	764	782	809	727	754	1050	924	980	1150	960	1030
19	794	758	775	772	738	756	982	900	942	1140	978	1090
20	852	739	776	785	747	766	997	885	930	1080	936	1020
21	820	731	775	778	741	765	975	888	922	1020	906	958
22	818	756	779	813	758	784	941	858	891	1020	924	973
23	809	759	787	887	756	802	944	859	896	1000	918	951
24	785	747	766	815	782	797	933	854	890	1000	901	939
25	799	761	781	818	745	787	906	842	880	966	842	890
26	788	745	769	837	775	794	897	831	867	962	852	896
27	890	715	750	1160	777	899	909	858	882	945	816	868
28	847	732	772	1040	813	911	896	837	862	909	834	872
29	788	749	769	838	771	803	890	830	855	888	850	869
30	763	732	745	849	794	820	933	846	883	912	862	887
31	776	744	759	049			919	867	891	891	802	852
31	, , , ,	, 11	, 35				212	307	0,51	371	002	032
MONTH	890	361	758				1050	773	879			

07105800 FOUNTAIN CREEK AT SECURITY, CO--Continued

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

		SPE	ECIFIC CONI	DUCTANCE,	(MICROSI	EMENS/CM	@ 25 DEG. C	C), WATER	YEAR OCTO	OBER 1996 T	O SEPTEM	1BER 1997
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	911 857 850 907 898	793 761 755 818 798	852 809 804 854 853	1190 1180 825 873 896	788 818 782 806 839	989 939 806 820 860	786 796 777 792 787	756 736 754 756 759	772 759 766 778 775	600 584 555 480 473	549 528 461 438 411	579 559 497 461 441
6 7 8 9 10	911 904 903 896 853	820 808 770 763 765	867 846 830 803 809	874 862 856 836 831	819 796 794 790 786	841 831 827 816 811	767 748 738 770 791	735 690 699 722 749	749 726 717 741 769	429 378 356 393 389	373 349 319 299 343	393 362 333 326 357
11 12 13 14 15	846 850 846 878 861	767 748 797 781 780	816 822 822 830 815	836 841 827 825 874	805 807 780 782 812	824 826 803 813 850	839 839 840 891 966	768 781 779 821 810	809 811 805 848 924	442 469 438 474 454	337 355 362 415 412	368 398 408 442 438
16 17 18 19 20	1180 833 841 880 835	761 729 775 794 759	934 793 814 829 797	845 838 838 839 836	823 816 810 776 733	833 831 825 811 794	996 1010 1010 844 822	828 879 757 761 748	950 976 871 793 787	458 468 495 498 469	426 441 446 453 449	446 455 464 466 460
21 22 23 24 25	882 914 838 837 885	808 780 734 757 807	845 847 786 797 846	798 802 782 832 794	727 754 744 743 757	770 775 769 800 778	872 761 802 733 530	637 678 733 438 426	782 723 779 508 488	474 474 474 359 349	412 415 352 304 320	453 441 407 343 337
26 27 28 29 30 31	853 871 847 	767 816 788 	810 842 818 	804 780 780 780 765 780	748 740 754 743 739 733	776 764 768 763 753 749	510 665 676 687 624	387 409 540 568 530	426 494 595 630 584	389 384 419 460 416 451	326 341 344 306 365 416	352 360 386 406 395 432
MONTH	1180	729	828	1190	727	813	1010	387	738	600	299	418
		JUNE			JULY		Z	AUGUST		5	SEPTEMBE	R
1 2 3 4 5	483 473 497 499 495	435 428 461 445 413	449 449 480 480 448	520 660 590 577 584	469 482 485 499 486	499 541 533 538 539	636 654 639 646 570	510 534 543 582 387	573 594 591 614 478	708 733 707 699 668	598 634 658 411 461	647 673 685 555 597
6 7 8 9 10	485 342 289 284	290 251 257 222	428 312 269 253	651 641 655 758 758	508 522 530 539 625	561 587 585 650 692	578 577 587 600 614	405 512 488 501 498	492 542 550 563 556	691 673 676 706 732	381 405 615 661 686	613 577 651 684 709
11 12 13 14 15	 	 	 	797 779 768 763 774	718 699 666 722 720	758 739 717 742 747	584 603 614 630 677	287 511 529 556 605	436 557 572 596 642	849 753 776 826 814	709 680 739 720 754	739 727 756 752 784
16 17 18 19 20		 		784 	743 	764 	768 730 639 673 766	612 638 594 607 618	678 684 616 638 653	808 772 788 787 796	755 735 756 674 652	778 759 774 763 693
21 22 23 24 25		 		 838 852 862	 800 818 808	 819 835 835	785 794 734 738 751	658 661 672 695 667	684 699 701 713 709	749 729 716 710 673	648 638 623 627 624	699 704 670 668 648
26 27 28 29 30 31	 565	 488	 526	737 628 672 601 608	395 359 207 207 501	 566 494 440 404 581	663 677 673 678 652 700	570 611 612 578 587 601	616 644 646 629 623 634	700 722 736 749 786	650 670 668 694 718	672 698 712 728 758
MONTH							794	287	610	849	381	696

07105800 FOUNTAIN CREEK AT SECURITY, CO--Continued

pH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		DE	CEMBER			JANUARY	
1 2 3 4 5	7.6 7.7 7.6 7.6 7.5	7.4 7.4 7.3 7.2 7.3	7.5 7.6 7.5 7.4 7.4	7.5 7.5 7.5 7.5 7.5	7.3 7.2 7.2 7.2 7.2	7.4 7.4 7.3 7.3 7.4	7.7 7.8 7.8 7.8 7.8	7.6 7.6 7.7 7.7 7.7	7.6 7.7 7.7 7.7 7.7	7.5 7.5 	7.2 7.2 	7.3 7.3
6 7 8 9 10	7.6 7.6 7.6 7.6 7.5	7.3 7.3 7.3 7.3 7.3	7.4 7.4 7.5 7.4 7.4	7.5 7.5 7.5 7.6 7.6	7.3 7.3 7.2 7.2 7.3	7.4 7.4 7.4 7.4 7.5	7.8 7.9 7.7 7.7 7.8	7.7 7.7 7.6 7.6 7.5	7.7 7.7 7.6 7.6 7.7	 	 	
11 12 13 14 15	7.6 7.6 7.6 7.5 7.6	7.3 7.3 7.3 7.3 7.3	7.4 7.5 7.5 7.4 7.5	7.6 7.6 7.5 7.5 7.6	7.3 7.3 7.3 7.3 7.3	7.5 7.4 7.4 7.4 7.5	7.7 7.7 7.7 7.7 7.7	7.5 7.5 7.5 7.5 7.4	7.6 7.6 7.6 7.6 7.5	 	 	
16 17 18 19 20	7.7 7.8 7.7 7.6 7.7	7.4 7.5 7.4 7.3 7.3	7.6 7.6 7.5 7.5	7.6 7.6 7.6 7.7 7.7	7.3 7.4 7.4 7.4 7.2	7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5	7.4 7.5 7.2 7.2 7.2	7.4 7.5 7.4 7.4	8.1 8.2 8.2 8.2	8.0 7.9 8.0 8.0	8.0 8.0 8.0 8.0
21 22 23 24 25	7.5 7.6 7.5 7.6 7.6	7.3 7.4 7.3 7.3	7.4 7.5 7.4 7.4	7.6 7.5 7.6 7.6 7.6	7.2 7.4 7.2 7.4 7.4	7.4 7.4 7.4 7.5 7.5	7.5 7.6 7.5 7.5	7.4 7.4 7.4 7.3 7.3	7.4 7.5 7.4 7.4	8.0 7.9 7.9 8.0 8.0	7.5 7.6 7.6 7.6 7.7	7.7 7.7 7.7 7.7 7.8
26 27 28 29 30 31	7.6 7.5 7.3 7.3 7.3	7.3 7.2 7.1 7.1 7.1 7.2	7.5 7.4 7.2 7.2 7.2 7.2	7.7 7.7 7.7 7.8 7.7	7.4 7.5 7.5 7.5 7.6	7.6 7.6 7.6 7.6 7.6	7.5 7.5 7.6 7.4 7.4	7.4 7.3 7.3 7.2 7.2 7.2	7.4 7.4 7.4 7.4 7.3 7.3	8.1 8.0 8.1 8.2 8.4 8.2	7.7 7.7 7.8 7.9 8.0 8.0	7.8 7.8 7.9 8.1 8.2 8.0
MONTH	7.8	7.1	7.4	7.8	7.2	7.5	7.9	7.2	7.5			
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5				8.0 7.7 7.8 8.0 8.0		7.8 7.6 7.8 7.8 7.8			7.9 7.8 7.9 7.8 7.9	8.0 8.1 8.1 8.2 8.2	MAY 7.9 7.9 8.0 8.0	7.9 8.0 8.0 8.1 8.1
1 2 3 4	8.1 8.1 8.0 8.0	FEBRUARY 7.9 7.9 7.8 7.7	8.0 8.0 7.9 7.9	8.0 7.7 7.8 8.0	MARCH 7.6 7.5 7.7 7.7	7.8 7.6 7.8 7.8	8.0 7.9 7.9 7.9	7.8 7.8 7.8 7.8 7.8	7.9 7.8 7.9 7.8	8.1 8.1 8.2	7.9 7.9 8.0 8.0	8.0 8.0 8.1
1 2 3 4 5 6 7 8	8.1 8.1 8.0 7.9 7.9 7.9 8.0	7.9 7.9 7.8 7.7 7.7 7.6 7.6 7.8 7.8	8.0 8.0 7.9 7.9 7.8 7.7 7.8 7.8	8.0 7.7 7.8 8.0 8.0 8.0 8.0	MARCH 7.6 7.5 7.7 7.7 7.8 7.7 7.8 7.7	7.8 7.6 7.8 7.8 7.8 7.8 7.9 7.9	8.0 7.9 7.9 7.9 7.9 8.0 8.1 7.9 8.0	7.8 7.8 7.8 7.8 7.8 7.8 7.7 7.6 7.6	7.9 7.8 7.9 7.8 7.9 7.9 7.9 7.7	8.1 8.2 8.2 8.1 8.1 8.1 8.2	7.9 7.9 8.0 8.0 8.0 8.0	8.0 8.1 8.1 8.0 8.1 8.1 8.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.1 8.0 8.0 7.9 7.9 7.9 8.0 8.0 8.0 8.0	FEBRUARY 7.9 7.8 7.7 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	8.0 8.0 7.9 7.9 7.8 7.7 7.8 7.8 7.9 7.8 7.8	8.0 7.7 7.8 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.1	MARCH 7.6 7.5 7.7 7.8 7.7 7.8 7.7 7.9 7.9 7.9 7.9 7.8	7.8 7.6 7.8 7.8 7.8 7.9 7.9 7.9 8.0 8.0 8.0	8.0 7.9 7.9 7.9 7.9 8.0 8.1 7.9 8.0 7.9	7.8 7.8 7.8 7.8 7.8 7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.6	7.9 7.8 7.9 7.8 7.9 7.9 7.9 7.7 7.8 7.8	8.1 8.2 8.2 8.1 8.1 8.1 8.2 8.2	7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 7.9	8.0 8.1 8.1 8.0 8.1 8.1 8.1 8.1 8.1 7.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.1 8.0 8.0 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	FEBRUARY 7.9 7.8 7.7 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	8.0 8.0 7.9 7.9 7.8 7.7 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	8.0 7.7 7.8 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.2	MARCH 7.6 7.5 7.7 7.8 7.7 7.8 7.7 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.7 7.9 7.7 7.9 7.7 7.8	7.8 7.6 7.8 7.8 7.8 7.9 7.9 7.9 8.0 8.0 8.0 8.0 8.1 8.1	8.0 7.9 7.9 7.9 7.9 8.0 8.1 7.9 8.0 8.0 7.9 8.1 8.0 8.5 8.6 8.9 8.9	7.8 7.8 7.8 7.8 7.8 7.7 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	7.9 7.8 7.9 7.8 7.9 7.9 7.7 7.8 7.8 7.7 7.7 7.8 8.0 8.0 8.0 8.1 8.2	8.1 8.2 8.2 8.1 8.1 8.1 8.2 8.2 8.2 8.0 8.0	7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 7.8 7.8 7.6 7.6	8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 7.9 7.9 7.8 7.8 7.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	8.1 8.0 8.0 7.9 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.0 8.1 8.1 8.1 8.1 8.1	FEBRUARY 7.9 7.8 7.7 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	8.0 8.0 7.9 7.9 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.9 7.8 7.9 7.9 7.9 7.9 7.9 7.9	8.0 7.7 7.8 8.0 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.1 7.9 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	MARCH 7.6 7.7 7.7 7.8 7.7 7.8 7.7 7.9 7.9 7.9 7.9 7.9 7.9 7.7 7.6 7.7 7.7 7.8 7.7 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	7.8 7.6 7.8 7.8 7.8 7.9 7.9 7.9 8.0 8.0 8.0 8.0 8.1 7.9 7.7 7.8 7.8 7.8 7.8 7.8 7.9	8.0 7.9 7.9 7.9 7.9 8.0 8.1 7.9 8.0 8.5 8.5 8.6 8.9 8.9 8.2 8.1 8.1 8.2 8.1 8.1 8.1	7.8 7.8 7.8 7.8 7.8 7.9 7.7 7.6 7.6 7.6 7.6 7.7 7.7 7.6 7.7 7.6 7.7 7.7	7.9 7.8 7.9 7.8 7.9 7.9 7.7 7.8 7.8 7.7 7.7 8.0 8.0 8.1 8.2 8.2 7.9 8.0 8.1 7.9	8.1 8.2 8.2 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.0 8.0 7.9 7.8 7.6 7.7 7.6 7.5 7.5 7.5 7.5 7.7	7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 7.8 7.6 67.5 7.4 7.1 7.1 7.2 7.4 7.5 67.7	8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 7.9 7.8 7.7 7.5 7.5 7.3 7.6 7.5 7.6 7.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	8.1 8.0 8.0 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.0 8.0 8.1 8.0 8.1 8.0	FEBRUARY 7.9 7.8 7.7 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	8.0 8.0 7.9 7.8 7.7 7.8 7.8 7.8 7.8 7.9 7.8 7.9 7.8 7.9 7.9 7.9 7.9 7.9 7.9	8.0 7.7 7.8 8.0 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.1 7.9 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	MARCH 7.6 7.5 7.7 7.8 7.7 7.8 7.7 7.9 7.9 7.9 7.9 7.9 7.7 7.6 7.7 7.7 7.7 7.7 7.7 7.9	7.8 7.6 7.8 7.8 7.8 7.9 7.9 7.9 8.0 8.0 8.0 7.9 8.0 8.1 8.1 7.9 7.7 7.8 7.8 7.8 7.8 7.9	8.0 7.9 7.9 7.9 8.0 8.1 7.9 8.0 8.0 8.5 8.5 8.5 8.5 8.5 8.9 8.9 8.9 8.1 8.0 8.1 8.1 8.2	APRIL 7.8 7.8 7.8 7.8 7.8 7.7 7.6 7.6 7.6 7.6 7.7 7.7 7.6 7.7 7.7	7.9 7.8 7.9 7.8 7.9 7.9 7.7 7.8 7.8 7.8 8.0 8.0 8.0 8.1 8.2 8.2 7.9 8.0 8.1 7.9	8.1 8.2 8.2 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.0 7.9 7.8 7.6 7.7 7.5 7.2 7.3	7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 7.8 7.6 7.5 7.6 7.5 7.1 7.1 7.1 7.1 7.2 7.4 7.6	8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.7 7.9 7.8 7.7 7.6 7.5 7.3 7.3 7.5 6 7.7

07105800 FOUNTAIN CREEK AT SECURITY, CO--Continued

pH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

			pri, w A	IEK, WHOLE	, FIELD, S	IANDARD	UNIIS, WAII	EKILAK	OCTOBER 1	990 IO SEF II	SWIDER 19	71
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		P	AUGUST		S	SEPTEMBE	R
1 2 3 4 5	7.9 7.9 7.9 8.1 8.0	7.7 7.7 7.7 7.7 7.5	7.8 7.8 7.8 7.9 7.8	7.9 7.9 7.9 7.9 8.0	7.4 7.4 7.7 7.7 7.7	7.7 7.7 7.8 7.8 7.8	8.0 8.0 8.0 8.0 7.9	7.6 7.6 7.7 7.7 7.4	7.8 7.9 7.9 7.9 7.8	8.0 8.0 8.0 8.0 7.9	7.7 7.7 7.7 7.4 7.5	7.8 7.8 7.8 7.8 7.7
6 7 8 9 10	7.7 7.9 7.6 7.5	7.4 7.4 7.3 7.3	7.6 7.5 7.5 7.5	7.9 7.9 7.8 7.9 8.0	7.7 7.6 7.6 7.6 7.6	7.8 7.8 7.7 7.7 7.8	8.0 8.0 7.9 7.9	7.8 7.8 7.8 7.8 7.6	7.9 7.9 7.8 7.9 7.8	7.9 7.9 8.0 8.0	7.6 7.6 7.8 7.8 7.7	7.8 7.8 7.9 7.9 7.9
11 12 13 14 15	 		 	8.1 7.9 8.0 8.0	7.7 7.7 7.7 7.7 7.7	7.8 7.8 7.8 7.8 7.9	7.9 7.9 7.9 7.9 8.0	7.6 7.7 7.7 7.8 7.8	7.8 7.9 7.8 7.9	8.0 8.1 8.1 8.1	7.8 7.8 7.8 7.8 7.8	7.9 8.0 8.0 7.9 8.0
16 17 18 19 20	 	 	 	8.1 8.3 8.4 8.3 8.0	7.5 7.9 7.9 7.5 7.6	7.8 8.1 8.2 7.9	8.0 8.1 7.9 8.0 7.9	7.8 7.7 7.6 7.7 7.7	7.9 7.9 7.8 7.9 7.8	8.1 8.1 8.1 8.1	7.9 7.8 7.8 7.8 7.7	8.0 8.0 7.9 7.9 7.8
21 22 23 24 25	 	 	 	8.1 8.1 	7.9 7.8 	8.0 8.0 	7.9 7.9 7.9 8.0 8.0	7.8 7.8 7.8 7.8 7.6	7.9 7.9 7.9 7.9 7.8	8.0 8.0 8.0 8.0	7.8 7.8 7.8 7.5 7.4	7.9 7.9 7.9 7.8 7.6
26 27 28 29 30 31	 7.9	 7.7	 7.8	 7.9 8.0 7.9 8.0	7.6 7.5 7.5 7.8	 7.8 7.8 7.8 7.9	7.8 7.9 7.9 7.9 7.9 8.0	7.5 7.8 7.8 7.7 7.7	7.7 7.9 7.8 7.8 7.8	7.7 7.7 7.7 7.7 7.7	7.4 7.5 7.5 7.5 7.4	7.5 7.6 7.6 7.6 7.6
MONTH							8.1	7.4	7.9	8.1	7.4	7.8

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NO	OVEMBER		D	ECEMBER			JANUARY	
1 2 3 4 5	19.6 16.9 18.2 19.1 20.1	11.8 11.3 10.9 12.3 11.5	15.3 13.7 14.0 15.3 15.2	13.3 13.4 12.5 15.1 13.9	6.9 6.5 7.2 8.3 7.0	9.5 9.8 10.0 11.2 10.0	10.1 7.7 9.9 8.2 10.7	3.3 3.5 2.6 3.3 3.3	6.4 5.5 5.5 5.0 6.1	8.3 11.7 10.5 7.3 3.8	3.1 4.2 5.3 2.3	5.8 7.1 7.4 4.8 2.5
6 7 8 9 10	20.1 19.5 19.7 18.8 19.2	12.2 11.8 11.4 11.0 10.7	15.6 15.0 14.9 14.4 14.4	10.6 10.1 11.8 13.0 13.9	7.1 5.1 4.8 6.2 6.7	8.4 7.2 7.8 9.4 10.0	7.1 9.2 9.6 10.2 10.4	5.6 3.8 4.3 5.9 7.0	6.4 6.4 6.7 7.8 8.4	5.1 6.1 6.7 7.3	.6 .1 2.1 .2	2.5 2.2 3.7 3.1
11 12 13 14 15	20.1 19.9 19.5 18.6 17.6	11.5 11.5 11.8 12.0 11.5	15.1 15.2 15.3 14.8 14.2	13.8 13.5 13.6 10.4 10.7	6.8 7.3 8.9 7.7 7.0	9.9 9.9 10.3 9.0 8.6	11.3 10.6 9.8 5.9 5.3	6.1 4.6 4.5 1.4	8.0 7.1 6.7 4.5 2.7	 	 	
16 17 18 19 20	17.6 14.4 15.8 16.1 12.0	10.4 7.9 6.5 8.9 6.5	13.3 10.8 10.6 11.8 10.0	8.7 9.1 12.2 14.7 14.9	5.7 5.0 5.0 7.4 8.4	7.2 7.0 8.3 10.6 10.9	4.8 1.8 3.8 6.5 6.7	.5 .0 .0 .0	2.7 .8 .9 2.4 3.3	3.8 6.6 8.1 8.8 9.0	.0 .0 1.8 2.1 2.1	1.3 2.6 4.6 4.8 5.2
21 22 23 24 25	11.1 13.4 14.2 14.5 14.0	5.4 4.5 7.1 7.8 8.2	7.9 8.7 10.2 10.9	12.5 13.6 10.0 10.6 12.0	7.9 7.6 5.7 6.2 6.4	9.8 10.2 8.1 8.1 8.4	7.0 6.7 4.1 6.2 7.4	3.0 2.0 1.6 .3 2.0	4.7 4.2 2.7 2.9 4.1	8.6 7.6 8.4 8.2 6.9	2.7 1.6 2.8 2.0	4.8 4.1 5.1 4.4 3.4
26 27 28 29 30 31	13.0 8.2 14.2 13.9 14.7	8.2 5.0 6.9 7.2 7.2	10.3 7.3 10.3 10.4 10.5 8.7	8.8 10.1 10.4 10.2 8.6	5.4 4.9 3.3 5.2 2.6	7.1 6.8 6.9 7.3 5.6	5.4 8.4 7.8 8.4 8.1 9.7	.0 2.8 2.4 2.5 3.2 4.0	2.6 5.0 4.8 5.2 5.6 6.5	8.8 6.1 8.8 8.6 9.7 10.8	3.4 2.7 1.9 4.1 3.1 5.3	5.7 4.2 5.0 6.1 6.2 7.7
MONTH	20.1	4.5	12.4	15.1	2.6	8.8	11.3	. 0	4.9			

07105800 FOUNTAIN CREEK AT SECURITY, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	11.1 9.7 8.4 9.3 8.5		7.0 6.0 5.5 5.0	12.6 11.6 8.0 12.0	3.1 3.4 4.6 3.4 1.4	6.3 7.3 7.7 5.6 6.1	14.5 11.4 16.5 14.9 9.4	8.5 5.0 6.4 8.7 5.8	11.2 8.2 10.8 11.1 7.7	13.2 11.9 14.4 16.8 16.7	6.9 5.1 5.3 7.3 8.7	9.9 8.4 9.8 11.8 12.6
6 7 8 9 10	8.9 9.6 9.9 9.3	2.8 2.3 1.7 2.3 2.3	4.7 5.0 5.6 5.3	14.8 14.8	3.6 4.5 4.7 5.2 5.5	8.1 8.9 9.1 8.7 8.5	12.5 15.0 11.8 13.6 7.4	4.4 5.0 6.1 3.8 4.0	8.3 9.5 8.5 7.7 5.9	13.7 13.2 11.7 15.4 14.1	8.4 8.3 7.0 7.0 8.0	11.2 10.6 9.5 11.0 11.4
11 12 13 14 15	10.3 6.8 9.2 10.9 11.7	2.9 3.2 3.4 2.6 3.3		14.9	6 7	9.7 10.1 9.6 6.0 6.7	8.7 12.7 15.3 16.2 16.4	1.5 1.7 2.9 4.7 7.6	4.7 6.4 8.4 9.6 11.5	14.4 15.7 15.5 14.9 17.1	7 6	11.0 11.3 11.8 12.0 13.2
16 17 18 19 20	12.3 12.0 12.1 12.4 10.0	3.9 5.4 5.3 6.5 5.0	7.7 8.3 8.4 8.7 7.0	17.0	7.8 6.5 6.5 8.0		19.2 20.6 19.3 19.6 20.1	8.7 7.6 8.5 9.4 10.1	12.7 13.3 13.5 14.0 14.5	18.2 17.2 15.8 12.1 18.0	9.9 10.4 10.6 9.3 7.7	13.9 13.9 13.1 10.3 12.5
22 23 24	10.2 9.5 6.2 9.9 11.4	3.5 2.2 3.3 .3	6.3 5.7 4.6 4.3 5.5	16.6 17.6 16.6 10.3 14.6	8.4 7.1 7.4 4.2 3.6	11.6 11.5 11.2 7.5 8.2	14.3 16.5 16.4 10.1 7.4	9.5 7.0 8.6 .4 2.4	11.9 10.9 11.6 3.8 4.4	14.9	11.3 11.1 9.6 9.8 9.7	13.6 12.6 12.8 12.6 12.6
26 27 28 29 30 31	9.1 9.5 8.5 	2.3 3.1 3.6 	5.4 5.6 5.1 	16.5 16.3 14.4 11.2 15.7	5.8 6.8 5.7 6.5 5.1 6.3	10.4 10.8 9.6 8.2 9.8 11.2	11.3 15.0 14.3 17.1 14.6	4.4 4.9 7.8 7.4 6.5	7.2 9.9 11.0 11.7 10.6	16.4 14.3 16.3 14.5 17.8 21.8	9.5 7.6 8.3 10.3 11.4	12.5 11.1 12.1 12.5 14.5 16.2
MONTH		.3		17.7	1.4	9.1	20.6	. 4	9.7	21.8	5.1	12.0
11011111												
		JUNE			JULY			AUGUST			SEPTEMBE	
1 2 3 4 5	18.5 19.3 21.3 21.8 20.3			21.9 21.1 22.0 21.7 20.9	JULY		22.4	AUGUST 17.2 16.6 15.5 17.0	19.2 19.1 19.4 19.8 18.0		16.1	
1 2 3 4	18.5 19.3 21.3 21.8	JUNE 12.7 13.2 12.6 12.5 13.9	16.1 15.6 16.1 16.6 16.5		JULY 13.5 13.6 12.6 13.6 13.7 14.4 13.9 14.1 13.7 14.5	17.6 17.1 17.1 17.1 17.1 17.1 17.1 16.7 17.0 18.1 18.7	22.4 24.2 24.3 23.9 19.4 18.0 20.8 22.0 21.1 17.1	AUGUST 17.2 16.6 15.5 17.0 17.6 15.6 13.8 13.9 14.7 15.4		21.9 20.1 20.6 23.3 22.5	16.1 16.3 17.1 16.6 15.8	18.8 18.5 18.3 19.1
1 2 3 4 5 6 7 8 9	18.5 19.3 21.3 20.3 21.6 15.2 14.7 13.7	JUNE 12.7 13.2 12.6 12.5 13.9 10.4 12.1 11.8 10.0	16.1 15.6 16.1 16.6 16.5 15.7 13.6 12.8 11.7	21.9 21.1 22.0 21.7 20.9 20.4 19.6 19.9 23.7	JULY 13.5 13.6 12.6 13.6 13.7 14.4 13.9 14.1 13.7 14.5	17.6 17.1 17.1 17.1 17.1 17.1 17.1 16.7 17.0 18.1 18.7	22.4 24.2 24.3 23.9 19.4 18.0 20.8 22.0 21.1	AUGUST 17.2 16.6 15.5 17.0 17.6 15.6 13.8 13.9 14.7 15.4	19.2 19.1 19.4 19.8 18.0	21.9 20.1 20.6 23.3 22.5 22.8 22.5 23.0 21.0 23.0	16.1 16.3 17.1 16.6 15.8 15.5 14.9 15.1 14.3 14.8 15.2 14.8	18.8 18.5 18.3 19.1 18.9 18.6 18.4 18.5 17.3 18.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14	18.5 19.3 21.3 21.8 20.3 21.6 15.2 14.7 13.7	JUNE 12.7 13.2 12.6 12.5 13.9 10.4 12.1 11.8 10.0	16.1 15.6 16.1 16.6 16.5 15.7 13.6 12.8 11.7	21.9 21.1 22.0 21.7 20.9 20.4 19.6 19.9 23.7 24.4 21.9 23.7 22.9 25.3	JULY 13.5 13.6 12.6 13.6 13.7 14.4 13.9 14.1 13.7 14.5	17.6 17.1 17.1 17.1 17.1 17.1 17.1 16.7 17.0 18.1 18.7	22.4 24.2 24.3 23.9 19.4 18.0 20.8 22.0 21.1	AUGUST 17.2 16.6 15.5 17.0 17.6 15.6 13.8 13.9 14.7 15.4	19.2 19.1 19.4 19.8 18.0 16.4 16.9 17.7 17.4 16.1	21.9 20.1 20.6 23.3 22.5 22.8 22.5 23.0 21.0 23.0	16.1 16.3 17.1 16.6 15.8 15.5 14.9 15.1 14.3 14.8 15.2 14.8	18.8 18.5 18.3 19.1 18.9 18.6 18.4 18.5 17.3 18.1 17.8 18.2 18.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	18.5 19.3 21.3 21.8 20.3 21.6 15.2 14.7 13.7	JUNE 12.7 13.2 12.6 12.5 13.9 10.4 12.1 11.8 10.0	16.1 15.6 16.1 16.6 16.5 15.7 13.6 12.8 11.7	21.9 21.1 22.0 21.7 20.9 20.4 19.6 19.9 23.7 24.4 21.9 23.7 22.9 25.3 26.2 24.9 26.3 26.2	JULY 13.5 13.6 12.6 13.6 13.7 14.4 13.9 14.1 13.7 14.5 15.7 14.8 15.2 16.2 16.3 15.5 14.9 18.1	17.6 17.1 17.1 17.1 17.1 17.1 16.7 17.0 18.1 18.7 18.6 19.9 20.9 20.1 20.1 20.9 20.1	22.4 24.2 24.3 23.9 19.4 18.0 20.8 22.0 21.1 17.1 21.2 21.0 21.3 21.5 22.9	AUGUST 17.2 16.6 15.5 17.0 17.6 15.6 13.8 13.9 14.7 15.4 14.9 14.0 12.4 14.2 13.8 14.6 13.6 14.9 14.3	19.2 19.1 19.4 19.8 18.0 16.4 16.9 17.7 17.4 16.1 17.4 17.9 17.8 17.9 17.8 17.3	21.9 20.1 20.6 23.3 22.5 22.8 22.5 23.0 21.0 23.0 22.4 22.8 23.0 23.4 22.8	16.1 16.3 17.1 16.6 15.8 15.5 14.9 15.1 14.3 14.8 15.2 15.6 15.1	18.8 18.5 18.3 19.1 18.9 18.6 18.5 17.3 18.1 17.8 18.5 17.9 17.4 17.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	18.5 19.3 21.3 21.8 20.3 21.6 15.2 14.7 13.7	JUNE 12.7 13.2 12.6 12.5 13.9 10.4 12.1 11.8 10.0	16.1 15.6 16.1 16.6 16.5 15.7 13.6 12.8 11.7	21.9 21.1 22.0 21.7 20.9 20.4 19.6 19.9 23.7 24.4 21.9 25.3 26.2 24.9 26.3 26.2 24.7 23.1	JULY 13.5 13.6 12.6 13.6 13.7 14.4 13.9 14.1 13.7 14.5 15.7 14.8 15.2 16.2 16.3 15.5 14.9 18.1 16.2 14.9 16.1 16.6 17.3	17.6 17.1 17.1 17.1 17.1 17.1 16.7 17.0 18.1 18.7 18.6 19.9 20.9 20.1 20.1 20.1 20.9 20.1 18.8	22.4 24.2 24.3 23.9 19.4 18.0 20.8 22.0 21.1 17.1 21.2 21.0 21.3 21.5 22.9 21.6 22.5 21.0 21.3 21.9	AUGUST 17.2 16.6 15.5 17.0 17.6 15.6 13.8 13.9 14.7 15.4 14.9 14.0 12.4 14.2 13.8 14.6 13.6 13.6 14.7 15.8	19.2 19.1 19.4 19.8 18.0 16.4 16.9 17.7 17.4 16.1 17.4 17.9 17.8 17.9 17.8 17.6 18.6 18.8 19.8	21.9 20.1 20.6 23.3 22.5 22.8 22.5 23.0 21.0 23.0 22.4 22.8 23.0 21.4 22.8 21.0 21.4 22.8	16.1 16.3 17.1 16.6 15.8 15.5 14.9 15.1 14.3 14.8 15.6 15.1 15.8 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5	18.8 18.5 18.3 19.1 18.9 18.6 18.4 18.5 17.3 18.1 17.8 18.5 18.9 18.5 17.9 17.4 17.9 17.8 13.6 13.0 15.1 14.0 15.6

07105800 FOUNTAIN CREEK AT SECURITY, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		DI	ECEMBER			JANUARY	
1 2 3 4 5	7.6 8.5 7.9 7.4 8.0	6.0 6.8 6.3 6.3	6.7 7.6 7.2 6.8 7.2	8.9 9.1 8.8 8.5 9.1	7.6 7.1 6.8 7.1 7.7	8.0 8.1 7.8 7.7 8.2	8.1 9.0 9.4 9.0	6.3 6.8 7.2 6.1	7.2 7.9 8.3 7.6	9.0 8.5 8.3 9.0	7.2 6.1 6.4 7.4	8.1 7.4 7.3 8.2
6 7 8 9 10	8.2 8.1 8.2 8.2 8.1	6.6 6.5 6.5 6.4	7.2 7.2 7.4 7.3 7.1	9.2 9.7 9.4 8.7 9.1	8.0 8.3 8.0 6.0 6.6	8.7 8.9 8.6 7.8	9.9 11.9 10.6 10.2 9.1	7.3 8.4 8.7 8.1 8.0	8.7 9.6 9.6 9.1 8.6	9.5 9.5 8.8 9.3	7.8 7.1 7.1 6.9	8.5 8.4 8.0 8.3
11 12 13 14 15	7.8 7.9 7.4 7.3 7.7	6.1 5.7 5.7 5.3 5.2	6.9 6.8 6.5 6.2 6.5	9.4 8.8 	6.6 5.8 	7.7 7.0 	9.0 10.1 10.8 11.8 11.3	8.0 8.1 8.5 8.8 9.3	8.4 9.1 9.4 9.9 10.3	 	 	
16 17 18 19 20	7.4 8.8 8.2	6.1 6.4 6.0	6.6 7.5 7.3 	 	 		11.1 9.9 10.0 9.4	9.0 8.1 7.9 7.5	9.9 9.0 9.2 8.7	10.0 10.6 11.9 11.5	8.1 7.8 7.9 6.9 6.8	9.0 7.2 9.9 9.2 9.1
21 22 23 24 25	 	 	 	9.1 8.6 9.2 9.4 8.1	6.3 5.1 5.7 6.6 5.3	7.7 6.2 7.1 7.6 6.5	8.7 8.8 9.1 9.7 9.5	7.1 7.4 7.6 7.9 7.7	8.1 8.2 8.4 8.8 8.7	11.2 11.7 10.9 11.4 11.8	6.6 7.8 6.9 7.0 8.0	8.9 9.8 8.9 9.9 9.9
26 27 28 29 30 31	 8.9	 6.5	 7.8	9.3 8.6 8.1 7.9 9.2	6.0 5.8 5.3 5.2 5.2	7.3 6.9 6.2 6.2 7.2	10.3 8.6 9.1 9.2 9.0 8.7	8.3 6.9 7.0 6.9 7.2 6.4	9.2 8.0 8.0 8.1 8.1 7.7	10.6 10.8 11.6 10.9 10.9 9.8	7.4 8.1 8.0 8.1 7.5 7.6	9.4 10.0 9.8 9.2 9.4 8.8
MONTH												
		FEBRUARY			MARCH			APRIL			MAY	
1												
2 3 4 5	9.5 10.1 10.2 10.8 11.0	7.6 7.9 7.5 7.3 7.5	8.7 9.0 9.4 9.6 9.9	 9.8	 7.8	 8.8	7.2 8.4 7.4	4.5 4.8 4.3	5.8 6.2 6.1	 9.3 9.4	 8.3 7.5	 8.8 8.4
2 3 4	10.1 10.2 10.8	7.9 7.5 7.3	9.0 9.4 9.6				8.4	4.8	6.2 	 9.3	 8.3	 8.8
2 3 4 5 6 7 8 9	10.1 10.2 10.8 11.0 11.4 11.4 11.4 11.1	7.9 7.5 7.3 7.5 9.9 7.9 8.1 8.0 8.6	9.0 9.4 9.6 9.9 10.6 10.1 9.9 9.7	9.8 11.5 11.9 11.8	7.8 8.7 9.4 9.5 9.7 9.3 8.5 8.6 10.2	 8.8 10.1 10.6 10.6 10.8	8.4 7.4 9.0 9.3 7.7 8.5	4.8 4.3 4.4 5.3 5.9 6.2	6.2 6.1 6.5 6.8 6.7 7.2	9.3 9.4 9.3 9.4	 8.3 7.5 8.4 7.9 7.6 7.3 8.2 7.9	8.8 8.4 8.8 8.6
2 3 4 5 6 7 8 9 10 11 12 13 14	10.1 10.2 10.8 11.0 11.4 11.4 11.1 11.1 10.8 10.6 10.8 11.0	7.9 7.5 7.3 7.5 9.9 7.9 8.1 8.0 8.6 8.2 9.0 8.2 7.8	9.0 9.4 9.6 9.9 10.6 10.1 9.9 9.7 10.0 9.7 9.8 9.6 9.6	9.8 11.5 11.9 11.8 12.0 11.9 11.8 11.7 11.8	7.8 8.7 9.4 9.5 9.7 9.3 8.5 8.6 10.2	8.8 10.1 10.6 10.6 10.8 10.6	8.4 7.4 9.0 9.3 7.7 8.5 8.5 9.4 9.8 9.2 8.6	4.8 4.3 4.4 5.3 5.9 6.2 6.8 7.1 4.5 5.3	6.2 6.1 6.5 6.8 6.7 7.2 7.8 8.3 7.3 7.0 6.8	9.3 9.4 9.3 9.4 9.3 9.5 9.0 9.2 9.2	 8.3 7.5 8.4 7.9 7.6 7.3 8.2 7.9	8.8 8.4 8.8 8.6 8.4 8.4 8.6 8.6 8.6
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	10.1 10.2 10.8 11.0 11.4 11.4 11.1 11.1 10.8 10.6 10.8 11.0 10.6	7.9 7.5 7.5 7.5 9.9 7.9 8.1 8.0 8.2 7.8 7.5 7.1 7.3 7.3	9.0 9.4 9.6 9.9 10.6 10.1 9.9 9.7 10.0 9.7 9.6 9.6 9.3 9.6 9.3	9.8 11.5 11.9 11.8 12.0 11.9 11.8 11.7 11.3 11.8 11.8 12.0	7.8 8.7 9.4 9.5 9.7 9.3 8.5 8.6 8.6 10.2 9.4 7.9 8.1 6.4	8.8 10.1 10.6 10.6 10.8 10.6 10.2 10.1 11.0 10.6 10.1 9.2 9.0 8.1	8.4 7.4 9.0 9.3 7.7 8.5 8.5 9.4 9.2 8.6 8.2 8.3 8.1	4.8 4.3 4.4 5.3 5.9 6.2 6.8 7.1 4.5 5.8 5.3 6.5 6.6 7.0	6.2 6.1 6.5 6.8 6.7 7.2 7.8 8.3 7.0 6.8 7.1 7.3 7.4 7.4	9.3 9.4 9.3 9.4 9.3 9.5 9.0 9.2 9.2 9.2 9.2 9.1 8.6 8.6	 8.3 7.5 8.4 7.9 7.6 7.3 8.2 7.9 7.8 7.4 6.8 6.6 6.4 8.1	8.8 8.4 8.8 8.6 8.4 8.6 8.4 8.6 8.4 8.7 7.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	10.1 10.2 10.8 11.0 11.4 11.4 11.1 11.1 10.8 10.6 10.5 9.6 9.5 9.4 10.0	7.9 7.5 7.5 9.9 7.9 8.1 8.0 8.2 9.0 8.2 7.8 7.5 7.1 7.2 7.3 7.7	9.0 9.4 9.6 9.9 10.6 10.1 9.9 9.7 10.0 9.7 9.6 9.6 9.3 9.0 8.4 8.4 8.9	9.8 11.5 11.9 11.8 12.0 11.9 11.8 11.7 11.3 11.8 11.0 10.8 11.1 10.2 8.8 9.1 9.8 9.8 9.8 9.8	7.8 8.7 9.4 9.5 9.7 9.3 8.6 8.6 10.2 9.4 7.9 8.1 6.4 6.5 7.1 6.7 8.7	8.8 10.1 10.6 10.6 10.8 10.6 10.2 10.1 11.0 10.6 10.1 7.5 7.9 8.1 8.2 9.0	8.4 7.4 9.0 9.3 7.7 8.5 8.5 9.4 9.2 8.6 8.2 8.3 8.1	4.8 4.3 4.4 5.3 5.9 6.2 6.8 7.1 4.5 5.8 5.3 6.5	6.2 6.1 6.5 6.8 6.7 7.2 7.8 8.3 7.0 6.8 7.1 7.3 7.4 7.8 	9.3 9.4 9.3 9.4 9.3 9.5 9.0 9.2 9.2 9.2 9.1 8.6 9.1 9.5 8.8 9.5	8.3 7.5 8.4 7.9 7.6 7.3 8.2 7.9 7.8 7.4 6.8 6.4 8.1 6.4 7.1 8.2 7.0	8.8 8.4 8.8 8.6 8.4 8.6 8.4 8.6 8.4 8.6 8.6 8.4 8.6 8.2 7.6 7.7 8.6 8.2

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ARKANSAS RIVER BASIN 07105800 FOUNTAIN CREEK AT SECURITY, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		A	UGUST		5	SEPTEMBE	₹.
1 2 3 4 5	9.0 8.4 8.8 9.1 8.5	7.4 6.6 6.7 7.2 7.4	8.1 7.8 7.8 8.0 8.0	7.3 6.9 7.0	 5.7 5.6 5.8	6.4 6.2 6.3	7.8 7.7 8.1 7.6 8.1	6.8 6.4 6.5 6.6 7.4	7.2 7.3 7.3 7.2 7.7	7.8 7.7 7.6 7.5 7.6	6.8 6.8 7.0 6.5	7.2 7.2 7.2 7.0 6.9
6 7 8 9 10	8.8 8.9 9.7 9.7	7.3 6.6 5.4 6.2	8.0 7.8 9.3 8.0	6.4 6.3 5.7 7.6 7.3	5.4 5.5 4.8 4.9 5.3	5.9 5.8 5.3 5.3	8.4 8.5 8.5 8.3 8.2	7.8 7.0 6.7 7.0 7.7	8.2 7.8 7.6 7.7 8.0	7.6 7.9 7.9 7.9 7.9	6.4 6.6 6.4 6.8 6.5	7.0 7.1 7.1 7.3 7.2
11 12 13 14 15		 	 	7.2 7.7 8.2 8.5 8.3	6.2 6.5 6.7 6.7	6.6 6.9 7.3 7.4 7.4	8.3 8.7 9.0 8.2 8.3	7.0 7.0 6.9 6.8 6.5	7.7 7.7 7.8 7.6 7.5	7.9 8.0 8.3 8.3	6.6 6.7 6.9 6.8 6.9	7.2 7.4 7.5 7.6 7.7
16 17 18 19 20	 	 		7.2 7.0 6.7 7.2 7.3	5.6 5.2 5.2 5.1 5.9	6.4 6.1 5.8 5.8 6.6	8.2 8.6 8.2 8.3	6.7 6.8 6.8 6.7	7.4 7.6 7.6 7.6 7.6	8.5 8.8 8.1 7.6 8.5	6.4 6.0 5.6 5.5 7.2	7.4 7.8 6.8 6.6 8.0
21 22 23 24 25	 	 		7.1 7.3 7.2 7.2 7.8	5.2 5.9 6.0 5.4 4.1	6.3 6.6 6.6 6.5	8.3 8.1 7.9 7.6 7.5	6.4 6.2 5.9 5.0 5.4	7.4 7.2 6.9 6.3 7.1	8.7 8.1 8.5 8.6 8.5	7.6 7.3 7.8 7.0 6.7	8.2 7.6 8.1 7.9 7.5
26 27 28 29 30 31		 	 	7.2 7.8 8.2 7.5 6.9 7.0	4.0 6.5 7.2 5.8 6.0 6.0	5.6 7.2 7.7 6.6 6.5 6.6	7.7 7.8 7.5 7.6 7.8 7.9	6.4 6.3 6.7 7.0 6.7	7.1 7.1 6.9 7.1 7.3 7.3	7.6 8.0 8.4 9.1 9.1	6.0 5.6 6.2 5.8 5.2	6.9 6.8 7.2 8.0 7.7
MONTH							9.0	5.0	7.4	9.1	5.2	7.4

07105900 JIMMY CAMP CREEK AT FOUNTAIN, CO

LOCATION.--Lat 38º41'04", long 104º41'17", in NW1/4SE1/4 sec.5, T.16 S., R.65 W., El Paso County, Hydrologic Unit 11020003, on right bank at downstream side of bridge on county road, 1,000 ft east of Fountain, and 1.5 mi upstream from mouth.

DRAINAGE AREA.--65.6 mi².

PERIOD OF RECORD .-- January 1976 to current year.

GAGE.--Water-stage recorderwith satellite telemetry and crest-stage gage. Elevation of gage is 5,530 ft above sea level, from topographic map. Jan. 1976 to Sept. 3, 1986 at datum 4.0 ft higher. Aug. 14, 1991 to July 14, 1994, at site 110 ft downstream, at same datum.

REMARKS.--Records fair except for estimated daily discharges, and those above 10 ft³/s, which are poor. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 17, 1965 reached an estimated discharge of 124,000 ft³/s, gage height, unknown.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.2 2.2 2.2 2.2 2.2	1.8 1.9 1.9 1.8	1.8 1.8 1.8 1.8	1.8 1.8 1.8 1.8	1.7 1.7 1.7 1.7	1.7 1.7 1.7 1.7	1.8 1.8 1.8 1.8	2.5 2.5 2.5 2.5 2.4	2.3 2.2 2.2 2.2 2.2	1.6 1.6 1.7 1.8	3.4 3.3 3.2 3.2 3.2	2.2 2.2 2.2 2.3 2.3
6 7 8 9 10	2.2 2.2 2.2 2.1 2.1	1.8 1.8 1.8 1.8	1.8 1.8 1.8 1.8	1.8 e1.7 1.8 1.8	1.7 1.7 1.7 1.7	1.7 1.7 1.7 1.7	1.9 1.9 1.9 2.0	2.5 2.5 2.4 2.4	2.2 2.2 2.2 2.3 2.8	1.9 2.0 2.0 2.0	3.4 3.2 3.0 2.9 2.9	2.0 2.0 2.0 2.0 1.9
11 12 13 14 15	2.1 2.1 2.1 2.1 2.1	1.8 1.8 1.8 1.8	1.8 1.8 1.8 1.8	1.7 e1.6 e1.5 e1.6 1.7	1.7 1.7 1.7 1.7	1.7 1.7 1.7 1.7	2.0 2.0 2.0 2.1 2.1	2.4 2.4 2.3 2.3	2.2 2.1 2.1 114 2.7	2.1 2.1 2.2 2.2 2.3	2.8 2.8 2.8 2.7 2.6	1.9 1.9 1.8 1.8
16 17 18 19 20	2.1 2.2 2.1 2.1 2.1	1.8 1.8 1.8 1.8	1.8 e1.7 e1.7 e1.7	e1.6 e1.6 1.7 1.7	1.7 1.7 1.7 1.7	1.7 1.7 1.6 1.7	2.1 2.1 2.1 2.2 2.2	2.5 2.5 2.5 2.4 2.3	1.9 1.8 1.8 1.8	2.3 2.4 2.5 2.6 2.8	2.6 2.7 2.8 2.5 2.5	1.8 1.8 1.8 1.8
21 22 23 24 25	2.1 2.1 2.1 2.1 2.0	1.8 1.8 1.8 1.8	1.8 1.8 1.8 1.8	1.7 1.7 1.7 1.7	1.7 1.7 1.7 1.7	1.7 1.7 1.7 1.8 1.7	2.3 2.3 2.4 e2.5 2.5	2.3 2.4 2.3 2.3	1.8 1.8 1.8 2.1	2.4 2.4 2.5 2.6 2.6	2.4 2.4 2.3 2.3 2.3	1.7 1.7 1.7 1.7
26 27 28 29 30 31	2.0 2.0 2.0 2.0 1.9	1.8 1.8 1.8 1.8	1.8 1.8 1.8 1.8 1.8	1.7 1.7 1.7 1.7 1.7	1.7 1.7 1.7 	1.7 1.8 1.8 1.8 1.8	2.5 2.4 2.4 2.5	2.4 2.4 2.4 2.6 2.6	1.7 1.6 1.6 1.6	2.7 2.8 2.8 3.0 6.6 3.6	2.3 2.2 2.2 2.2 2.2 2.2	1.6 1.6 1.6 1.6
TOTAL MEAN MAX MIN AC-FT	65.1 2.10 2.2 1.9 129	54.2 1.81 1.9 1.8 108	55.5 1.79 1.8 1.7 110	52.9 1.71 1.8 1.5 105	47.6 1.70 1.7 1.7 94	53.2 1.72 1.8 1.6 106	63.9 2.13 2.5 1.8 127	75.0 2.42 2.6 2.3 149	172.3 5.74 114 1.6 342	75.9 2.45 6.6 1.6 151	83.5 2.69 3.4 2.2 166	55.8 1.86 2.3 1.6 111
STATIST MEAN MAX (WY) MIN (WY)	2.11 3.55 1985 1.20 1979	2.30 6.49 1982 1.58 1984	N DATA FO 1.76 3.17 1995 .87 1988	1.68 2.74 1986 1.01 1988	1.62 2.39 1977 .79 1990	- 1997, 1.76 3.54 1980 1.05 1990	1.71 2.72 1993 .56 1990	ZEAR (WY) 2.52 10.1 1995 .91 1986	3.90 27.8 1995 .98 1989	3.19 27.9 1985 .96 1989	4.47 13.4 1984 .84 1993	1.83 5.12 1994 .68 1990
SUMMARY	STATISTI	:CS	FOR 1	1996 CALENI	DAR YEAR	F	OR 1997 WAT	TER YEAR		WATER YE	ARS 1976	- 1997
SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW				925.04 2.53 44 e.86 .97	Aug 15 Feb 1 Jan 8		854.9 2.34 114 e1.5 b1740	Jun 14 Jan 13 Jan 11 Jun 14		2.40 5.12 1.20 700 a.00 .07 c4810	Jul 2 Apr 1 Apr 1	1995 1990 28 1985 12 1990 10 1990
INSTANT ANNUAL 10 PERC 50 PERC	ANEOUS PE	JS PEAK FLOW JS PEAK STAGE FF (AC-FT) 1830 EXCEEDS 4.2 EXCEEDS 1.8					8.53 1700 2.5 1.8 1.7	Jun 14 Jun 14		4810 d9.51 1740 2.9 1.7	Jun Jun	3 1994 3 1994

e-Estimated.

a-Also occurred Apr 13 and 15, 1990. b-From rating curve extended above 80 ft³/s, on basis of slope-area measurement of peak flow. c-From rating curve extended above 100 ft³/s, on basis of slope-area measurement of peak flow.

d-From floodmark.

07105905 FOUNTAIN CREEK ABOVE LITTLE FOUNTAIN CREEK, BELOW FOUNTAIN, CO

WATER-QUALITY RECORDS

 $LOCATION.\text{--Lat } 38^{o}37'50", long \ 104^{o}40'50", in \ SW^{1/4}NW^{1/4} \ sec. 28, T.16 \ S., R.65 \ W., El \ Paso \ County, \ Hydrologic \ Unit \ 11020003, approximately \ 1 \ mi \ upstream from mouth of Little Fountain Creek below Fountain.$

PERIOD OF RECORD.--April 1975 to current year.

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C)	DIS- SOLVEI (MG/L)	(MG/L)		STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	CALCI DIS- SOLV (MG/ AS C	DI ZED SOL L (MG	UM, LINITY S- LAB VED (MG/L //L AS MG) CACO3)
OCT 25	0900	119	884	8.0	7.5	5 8.6	3.3	140	100	66	22	137
NOV 22	1115	125	931	8.0	7.5	5 9.9	4.9	K63	67	66	23	143
DEC 13	0915	90	1060	8.1	4.0	10.7	4.7	120	130	77	26	155
JAN 24	1115	74	1070	8.2	5.0	9.9	6.0	K410	640	80	27	163
FEB 21	0915	99	958	8.0	3.5	5 10.2	e13	120	87	63	21	134
MAR 21	0900	46	936	7.6	10.0				К35	61	21	125
MAY												
02 30	1030 0930	262 219	691 652	8.0 7.7	10.5 15.5				120 K1100	53 49	18 17	106 104
JUN 27	0900	310	654	7.9	15.0	7.9	5.5	540	330	50	16	104
JUL 25	1000	46	1080	8.1	21.5	5 7.0	3.0	220	K80	82	28	169
AUG 15	1000	132	788	8.0	17.5	5 7.3	3.1	420	350	58	21	128
SEP 19	0945	100	911	7.9	17.0	7.3	e3.2	330	170	65	24	144
DATE	SULF DIS SOL (MG AS S	- DIS VED SOI /L (MC O4) AS	DE, RI S- D LVED SO G/L (M CL) AS	IS- SUL LVED TO G/L (M F) AS	TO: AT FIDE DEC FAL SU G/L PEN S) (N	TAL 0 105 NII G. C, I JS- SO NDED (M	EN, GRITE NO2 DIS- DOLVED SO G/L (M	EN, GI +NO3 AMMO DIS- DI DLVED SOI	EN, GEN, DNIA MONI IS- ORGA LVED TOT G/L (MO N) AS	,AM- P IA + ANIC FAL S G/L (N) A	PHOS-PHORUS ORTHO, DIS-SOLVED MG/L S P) 00671)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
OCT 25	230	44	1	1.8		60 <0	.01 <0	.05 <0	.015 <0	0.2	<0.01	4
NOV 22	240	45	5	1.8	<0.5	20 0	.13 1	.3 0	.35	1.2	0.86	5
DEC 13	270	5.3	L :	1.8		14 (.06 6	.3 0	.21 (0.7	0.61	6
JAN 24	280	54	1	1.6		22 (.09 5	.3 0	.72	1.5	0.62	8
FEB 21	230	52	2	1.7		58 (.10 5	.5 2	0 3	2.8	0.42	5
MAR 21	230									3.6	0.28	4
MAY												
02 30	170 160				 <0.5					0.82 0.77	0.291 0.308	3 4
JUN 27	160	26	5	2.1		153 (.260 2	.92 0	.477	1.2	0.084	3
JUL 25	290	45	5	1.8		19 0	.063 3	.75 0	.082	0.61	0.230	5
AUG 15	200	32	2	2.0		118 0	.024 2	.45 0	.038	0.61	0.288	4
SEP 19	260	42	2	1.8		36 0	.035 4	.26 0	.086	0.73	0.350	5

e-Estimated. K-Based on non-ideal colony count.

07105905 FOUNTAIN CREEK ABOVE LITTLE FOUNTAIN CREEK, BELOW FOUNTAIN, CO--Continued

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

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, TOTAL RECOV- ERABLE (UG/L AS B) (01022)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR) (01032)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
OCT 25					<1	<1	<1	<1	<1	6	4	1700
NOV 22	<1	1	160	170	<1	<1	<1	<1	4	3	2	800
DEC 13					<1	<1	1	<1	<1	4	2	990
JAN 24					<1	<1	1	<1	<1	4	3	1200
FEB 21					<1	<1	<1	<1	<1	5	2	1400
MAR 21					<1	<1	1	<1	<1	20	12	1000
MAY 02					<1	<1	3	<1	<1	13	2.7	4900
30 JUN	3	<1	90	101	<1 <1	<1	2	<1	<1 <1	8 7	1.0	4700 4300
27 JUL 25					<1	<1	<1	<1	<1	6	1.1	540
25 AUG 15					<1	<1 <1	1	<1 <1	<1	6	2.4	3100
SEP 19					<1	<1	<1	<1	<1	4	2.4	810
17					1	\ <u>+</u>	\1	1	\ <u>+</u>	-	2.5	010
DAT	IRO DI SOL E (UG AS	S- REC VED ERA /L (UG FE) AS	AL LE. OV- D. BLE SO. /L (U. PB) AS	MAN NES AD, TOT IS- REC LVED ERA G/L (UG PB) AS 049) (010	E, MAN CAL NES COV- DI BLE SOL C/L (UG MN) AS	S- REC VED ERA J/L (UG MN) AS	CAL NICE COV- DIS ABLE SOI S/L (UC NI) AS	S- DI LVED SOI G/L (UG NI) AS	JM, TOT IS- REC LVED ERA G/L (UC SE) AS	TAL ZIN COV- DI ABLE SOL G/L (UG ZN) AS	S- CYAN VED TOT G/L (MC ZN) AS	ΓAL G/L CN)
OCT	DI SOL E (UG AS	N, TOT: S- REC VED ERA /L (UG FE) AS 46) (010	AL LE. OV- D BLE SO: /L (U PB) AS 51) (01	NES AD, TOT IS- REC LVED ERA G/L (UG PB) AS 049) (010	E, MAN AL NES OV- DI BLE SOL (/L (UG MN) AS 55) (010	E, TOT S- REC VED ERA J/L (UG MN) AS 156) (010	CAL NICE COV- DIS ABLE SOI F/L (UC NI) AS 167) (010	KEL, NIU G- DI LVED SOI G/L (UG NI) AS 065) (011	JM, TOT IS- REC LVED ERF E/L (UC SE) AS 145) (010	FAL ZIN COV- DI ABLE SOL G/L (UG ZN) AS 092) (010	S- CYAN VED TOT G/L (MC ZN) AS	FAL G/L CN) 720)
OCT 25 NOV	DI SOL E (UG AS: (010	N, TOT. S- REC VED ERA /L (UG FE) AS 46) (010	AL LE. OV- D BLE SO: /L (U PB) AS 51) (01	NES AD, TOT IS- REC LVED ERA G/L (UG PB) AS 049) (010	E, MAN PAL NES OV- DI BLE SOL PAL (UG MN) AS 55) (010	EE, TOT S- REC VED ERA I/L (UG MN) AS (56) (010	AL NICE OV DISCOVE DIS	KEL, NIU S- DI LVED SOI S/L (UG NI) AS 065) (011	JM, TOT IS- REC LVED ERF E/L (UC SE) AS 145) (010	TAL ZIN COV- DI ABLE SOL S/L (UG ZN) AS 092) (010	S- CYAN VED TOT VL (MC ZN) AS 190) (007	FAL G/L CN) 720)
OCT 25	DI SOL E (UG AS	N, TOT. S- REC VED ERA /L (UG FE) AS 46) (010	AL LE. OV- D BLE SO: /L (U PB) AS 51) (01	NES AD, TOT IS- REC LVED ERA G/L (UG PB) AS 049) (010	E, MAN AL NES OV- DI BLE SOL (/L (UG MN) AS 55) (010	SE, TOI S- REC VVED ERA (/L (UG MNN) AS 56) (010	AL NICE OV DISCOVE DIS	KEL, NIU S- DI LVED SOI S/L (UG NI) AS 065) (011	JM, TOT IS- REC LVED ERF E/L (UC SE) AS 145) (010	TAL ZIN COV- DI ABLE SOL S/L (UG ZN) AS 092) (010	S - CYAN VED TOT S/L (MC ZN) AS 190) (007	FAL G/L CN) 720)
OCT 25 NOV 22 DEC 13 JAN 24	DI SOL: E (UG AS: (010	N, TOT. S- REC VVED ERA /L (UG FE) AS 46) (010	AL LE. OV- D. BLE SO. /L (U) PB) AS 51) (01	NES TOT IS- REC LVED ERA G/L (UG PB) AS 049) (010	E	E, TOI S- REC VVED ERA S/L (UG MN) AS 556) (010	AL NICH NICH NICH NICH NICH NICH NICH NICH	KEL, NIU 5- DI VVED SOIL F/L (UC NI) AS 665) (011	JM, TOT IS- REC VVED ERA G/L (UC SE) AS (010 4	TAL ZIN COV- DI COV- DI SOL SOL (UG ZN) AS (100 20) (010 30 16 30 20	(S- CYAN VED TOTO (S/L (MC ZN) AS (90) (00)	FAL G/L CN) 720)
OCT 25 NOV 22 DEC 13 JAN 24 FEB 21	DI SOL' E (UG AS (010	N, TOT. S- REC VED ERA /L (UG FE) AS 46) (010 9 8 9	AL LE. OV- D BLE SOO. (UP PB) AS 51) (01 3 < 1 < 3 < 3 < 3	NES TOT TIS- REC LVED ERA G/L (UG PB) AS 049) (010	E	E, TOI S- REC VVED ERA I/L (UG MN) AS 56) (010	CAL NICH COV DISTRIBUTION OF THE SOIL COUNTY OF THE	KEL, NIU S- DI VVED SOI G/L (UC NI) AS 665) (011	JM, TOT SS- REC LVED ER# 5/L (UC SE) AS 445) (010	TAL ZIN 20V- DI 20V- DI 38LE SOL (UG 2N) AS 30 20 30 23	SS CYAN VED TOT S/L (MC ZN) AS 190) (000	FAL 3/L CN) 720)
OCT 25 NOV 22 DEC 13 JAN 24 FEB 21 MAR 21	DI SOL' E (UG AS (010) 1 1 1	N, TOT: S- REC VVED ERA /L (UG FE) AS 46) (010 9 8 9 1	AL LE. OV- D BLE SO /L (U PB) AS 51) (01 3 <. 1 <. 3 <. 2 <.	NES NES TOT TOT IS- REC LVED ERA G/L (UG PB) AS 049) (010	MAN NES OOV- DI	E, TOI S- REC VVED ERA I/L (UC MN) AS 56) (010	AL NICE OV- DIG SOLUTION OV-	KEL, NIU - DI LVVED SOII F/L (UC NI) AS 665) (011	JM, TOT, S.S. REC. VIEW ERR. S.C. (UC. S.E.) AS (.45) (010)	TAL ZIN 20V- DI DI SOL ZIN SOL ZIN AS 30 20 30 23 30 20	SS CYAN VED TOTO S/L (MK ZN) AS 190) (007	FAL G/L CN) 720) .01
OCT 25 NOV 22 DEC 13 JAN 24 FEB 21 MAR 21 MAY 02	E (UG AS (010	N, TOT. S- REC VVED ERA /L (UG FE) AS 46) (010 9 8 9 1 7 8 6.3	AL DE	NES AD, TOT IS- REC LVED ERA G/L (UG PB) AS 049) (010	Name	E, TOI S- REC VVED ERA S/L (UG MN) AS 556) (010	AL NICHOLD DISTRIBUTION OF THE PROPERTY OF THE	KEL, NIU 5- DI VVED SOIL (VC NI) AS (65) (011	JM, TOT, REC, LVED ER, SE) AS (010) 4 5 6 8 5 4 3	TAL ZIN COV- DI COV- D	SS CYAN VED TOTO S/L (MK ZN) AS 190) (007	TAL 3/L (N) 720)01
OCT 25 NOV 22 DEC 13 JAN 24 FEB 21 MAR 21 MAY 02 JUN	E (UG AS (010	N, TOT. S- REC VVED ERA /L (UG FE) AS 46) (010 9 8 9 1 7 8 6.3 6.0	AL LE. OV- D BBLE SO: /L (U PB) AS 51) (01 3 < 1 < 2 < 2 < 2 < 8 < 10 <	NES NES TOT IS- REC LVED ERA G/L (UG PB) AS 049) (010	MAN NES OOV- DI NE	E, TOI S- REC V/VED ERA I/L (UG MN) AS 556) (010	PAL NICHODE SOLUTION NI	KEL, NIU S- DI S-	JM, TOT, REC. VVED ERR. (UC. SE) AS (45) (010	TAL ZIN COV- DI COV- D	SS CYAN VED TOTO (NL (MM ZN) AS (90) (007)	TAL 3/L (N) 720)01
OCT 25 NOV 22 DEC 13 JAN 24 FEB 21 MAR 21 MAY 02 30 JUN 27	E (UG AS (010	N, TOT. S- REC VED ERA /L (UG FE) AS 46) (010 9 8 9 1 7 8 6.3 6.0 9.4	AL LE. OV- DW- DW- DW- SOO (/L PB) AS 51) (01 3 < 1 < 2 < 2 < 2 < 4 do not contain the co	NES NES TOT TOT IS- REC LVED ERA G/L (UG PB) AS 049) (010	MAN NES OV	E, TOI S- REC VVED ERA VL (UG MN) AS 56) (010	AL NICE OV- DIT SINGLE SOI AS (A) AS (A) AS (A) AS (A) AS (B) AS	CEL, NIU S- DI VVED SOI G/L (UC NI) AS 065) (011 3 3 4 3 4 4 5 6 5 6 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	JM, TOT, REC. S.S. REC. S.S. REC. S.S. AS. (UC. S.E.) AS. (45.) (010.)	TAL ZIN COV- DI DI SOLI CIO CIO CIO CIO CIO CIO CIO CIO CIO CI	SS CYAN VED TOT S/L (MC ZN) AS 190) (007	TAL 3/L (N) 720)01
OCT 25 NOV 22 DEC 13 24 FEB 21 MAR 21 MAY 02 30 JUN 27 JUL 25 AUG	E (UG AS (010	N, TOT. S- REC VVED ERA (UG FE) AS 46) (010 9 8 9 1 7 8 6.3 6.0 9.4 3.0	AL LE. OV- D BBLE SO: (UPB) AS 51) (01 3 < 1 < 2 < 2 < 2 < 2 < 8 10 < 6 < 1	NES	MAN MAN MES	E, TOI S- REC VVED ERA F/L (UG MN) AS 556) (010	AL NICHOLD DISTRIBUTION OF THE PROPERTY OF THE	XEL, NIU S- DI S- DI S- VVED SOI	JM, TOT, REC, LVED ER, REC, LVED ER, LVED (UC SE) AS (45) (010) 4 5 6 8 5 4 3 4 3 5 5	TAL ZIN COV- DI SOLO COV- DI SALO COV- DI SOLO COVI DI SO	SS CYAN VED TOT (MC ZN) AS (90) (00) (00) (00) (00) (00)	TAL 3/L (N) 720)01
OCT 25 NOV 22 DEC 13 JAN 24 FEB 21 MAR 21 MAY 02 30 JUN 27 JUL 25	E (UG AS (010	N, TOT. S- REC VED ERA /L (UG FE) AS 46) (010 9 8 9 1 7 8 6.3 6.0 9.4	AL LE. OV- DW- DW- DW- SOO (/L PB) AS 51) (01 3 < 1 < 2 < 2 < 2 < 4 do not contain the co	NES NES TOT IS- REC LVED ERA G/L (UG PB) AS 049) (010	MAN MAN MES	E, TOI S- REC VVED ERA V/L (UG MN) AS 56) (010	AL NICE OV- DIT SING NICE OV- DIT SING NICE SOL AS NICE NICE SOL AS	CEL, NIU S- DI VVED SOI G/L (UC NI) AS 065) (011	JM, TOT, REC. S.S. REC. S.S. REC. S.S. AS. (UC. S.E.) AS. (45.) (010.)	TAL ZIN COV- DI DI SOLI CIO CIO CIO CIO CIO CIO CIO CIO CIO CI	SS- CYAN VED TOTO (NL (MM ZN) AS 90) (007) (007) (007) (007) (007) (007)	TAL 3/L (N) 720)01

07105920 LITTLE FOUNTAIN CREEK ABOVE KEATON RESERVOIR NEAR FORT CARSON, CO

LOCATION.--Lat 38°40'54", long 104°51'29", in NE1/4SW1/4 sec. 2, T.16 S, R.67 W., El Paso County, Hydrologic Unit 11020003, on right bank 100 ft upstream from Keaton Reservoir, 0.7 mi upstream from State Highway 115, and 4.8 mi southwest of Fort Carson.

DRAINAGE AREA.--11.0 mi².

PERIOD OF RECORD .-- May 1978 to September 1987. October 1987 to September 1988, seasonal record only. February 1995 to current year. Water-quality data available, May 1978 to September 1982.

REVISED RECORDS.--WDR CO-80-1: 1979.

GAGE.--Water-stage recorder with satellite telemetry. Parshall flume and crest-stage gage, until destroyed by flood of June 9, 1997. Elevation of gage is 6,430 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and those above 70 ft³/s, which are poor. No known diversions upstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

•	•		DISCH	IARGE, CUBI	C FEET PER	SECOND,	WATER YEAR	OCTOBE	R 1996 TO S	EPTEMBER 19	97	
						DAILY	MEAN VALUI	ES				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.9 1.8 1.7 1.6	.96 .85 .82 .83	1.1 1.1 .96 1.0	.98 1.0 1.1 .94 e.70	e.76 e.77 e.79 e.76 e.76	e.53 e.53 e.56 e.54 .60	1.5 1.5 1.4 1.7	32 25 19 26 54	11 9.9 9.0 8.0 7.4	13 14 12 13 12	21 21 19 17 25	5.5 5.0 4.9 4.7 4.6
6 7 8 9 10	1.5 1.3 1.3 1.2	.82 .78 .80 .82	1.1 e1.1 e1.0 e.98 e1.1	e.50 e.61 e.56 e.50 e.44	e.76 e.76 e.76 e.76 e.70	.62 .75 .74 .83	1.4 1.5 1.5 1.4	40 29 24 22 20	7.4 18 23 e150 e550	12 12 12 9.8 5.5	32 33 29 25 25	4.2 3.7 3.5 3.4 3.2
11 12 13 14 15	1.1 .96 .96 .84 .82	.84 .76 .76 .78	e1.0 e.93 e.92 e.90 e.88	e.40 e.46 e.50 e.52 e.50	e.64 e.57 e.56 e.58 e.54	.87 1.0 1.0 .73 .71	1.0 1.3 1.3 1.4 1.5	19 18 28 44 41	e200 e130 e93 e77 e65	e7.2 e7.6 e7.2 e7.0 e6.5	23 20 18 16 14	3.2 3.0 2.8 2.7 2.4
16 17 18 19 20	.82 .82 .82 .82 .84	.82 .86 .89 .89	e.85 e.83 e.82 e.84 e.85	e.46 e.49 e.52 e.47 e.46	e.57 e.64 e.68 e.64 e.54	.93 .97 1.0 .96 1.1	1.5 1.6 1.6 1.6	37 34 32 31 28	e59 e50 e45 e45 38	e6.0 e5.5 e5.3 e6.0 e6.8	12 11 11 9.9 8.9	2.3 2.2 2.0 2.0 2.7
21 22 23 24 25	.92 .81 .82 .82	.89 .89 .96 .96	e.82 e.85 e.89 e.89	e.54 e.54 e.45 e.44 e.51	e.58 e.53 e.50 e.50 e.48	1.3 1.3 1.2 1.3	1.8 1.6 1.8 3.8 2.0	24 29 33 30 27	35 31 27 25 22	e7.2 e6.6 e6.0 e5.8 e5.2	8.1 7.2 6.8 6.1 5.7	2.8 2.6 3.0 3.1 2.7
26 27 28 29 30 31	.82 .92 .98 1.1 .96 .96	.91 .96 1.1 1.0 1.0	e.89 e.89 e.89 e.93 e.96 e.94	e.53 e.56 e.58 e.64 e.68 e.70	e.47 e.49 e.49 	1.3 1.5 1.5 1.5 1.4	3.8 5.2 8.8 19 39	24 20 17 15 14	19 17 16 15 14	e5.0 e5.0 e5.0 e5.7 29	7.3 8.3 6.6 6.2 5.9	2.4 2.3 2.2 2.0 1.9
TOTAL MEAN MAX MIN AC-FT	33.93 1.09 1.9 .81 67	26.29 .88 1.1 .76 52	29.20 .94 1.1 .82 58	18.28 .59 1.1 .40 36	17.58 .63 .79 .47 35	30.69 .99 1.5 .53 61	116.1 3.87 39 1.0 230	849 27.4 54 13 1680	1816.7 60.6 550 7.4 3600	280.9 9.06 29 5.0 557	464.9 15.0 33 5.7 922	93.0 3.10 5.5 1.9 184
							BY WATER Y					
MEAN MAX (WY) MIN (WY)	3.76 29.0 1985 .18 1979	2.21 13.0 1985 .29 1979	1.23 3.89 1985 .30 1979	1.03 2.25 1985 .30 1979	.98 1.78 1983 .36 1981	1.57 5.13 1987 .52 1981	6.71 17.6 1987 .75 1981	25.4 81.5 1995 .90 1981	15.2 60.6 1997 1.04 1978	4.46 11.6 1985 .17 1978	7.07 28.2 1982 .11 1978	3.17 13.5 1982 .032 1978
SUMMARY	STATIST	ICS	FOR	1996 CALEN	IDAR YEAR	F	FOR 1997 WAT	ER YEAR	2	a WATER YE	ARS 1978	- 1997
SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS				440.63 1.20 8.7 b.39 .48	Jul 10		3776.57 10.3 e ₅₅₀ e _{.40} 47 d ₉₁₄ f _{4.19} 7490 26	Jun 10 Jan 11 Jan 10 Jun 9	- -	5.95 12.2 1.17 550 C.00 4914 f4.19 4310	Jun 1 Aug 2 Aug 2 Jun	1985 1996 10 1997 22 1978 22 1978 9 1997 9 1997
50 PERG	CENT EXCE	EDS		.97 .71			1.5 .57			1.6 .50	ı	

e-Estimated. a-Does not include 1988 to 1994 water years.

A-Does not include 1960 to 1994 water years. b-Also occurred Jul 8. c-Also occurred Aug 23-28, and Sep 8-24, 1978. d-From rating curve extended above 70 ft³/s, on basis of critical-depth measurement of peak flow. f-From floodmark.

07105928 LITTLE FOUNTAIN CREEK NEAR FORT CARSON, CO

LOCATION.--Lat 38°40'49", long 104°51'08", in SW1/4SE1/4 sec.2, T.16 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on right bank 0.3 mi downstream from Keaton Reservoir, 0.4 mi upstream from State Highway 115, 1.2 mi upstream from Deadman Canyon, and 4.8 mi southwest of Fort Carson.

DRAINAGE AREA.--11.8 mi².

PERIOD OF RECORD.--Streamflow records, May 1978 to September 1989. January 1995 to current year. Water-quality data available, May to September 1978.

REVISED RECORDS--WDR CO-80-1: 1979.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,360 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, and those above 160 ft³/s, which are poor. At times during the year, natural flow of stream may be affected by Womack ditch. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	1.6 1.5 1.4 1.3	.77 .74 .70 .71	.36 e.35 .34 .42	.47 .51 .78 .63	.26 .26 .24 .22	. 23 . 23 . 24 . 26 . 28	.25 .08 .05 .03	23 20 16 18 33	13 12 11 11	6.4 5.8 5.3 4.8 4.4	e18 e17 e15 e13 e24	4.1 3.6 3.3 4.6 3.6	
6 7 8 9 10	1.2 .98 .92 .87 .82	.59 .49 .50 .58	. 46 . 48 . 45 . 50 . 53	.28 .38 .33 .29	.21 .21 .19 .19	.28 .31 .37 .40	.02 .02 .01 .01	47 45 41 36 34	9.2 20 21 82 580	3.9 3.8 3.6 2.7 1.2	30 33 30 24 23	2.7 2.3 2.7 2.1 1.9	
11 12 13 14 15	.76 .66 .57 .52	.51 .52 .51 .53	.48 .45 .45 .45 e.43	e.20 e.21 e.23 e.26 e.27	.18 .16 .16 .16	.47 .46 .90 .57	.01 .01 .01 .00	31 30 28 26 25	228 138 92 84 68	3.6 3.7 3.3 3.1 2.6	21 18 17 14 12	1.6 2.7 3.5 3.4 2.9	
16 17 18 19 20	. 45 . 41 . 44 . 42	.53 .44 .49 .50	e.38 .35 .36 .34	e.23 e.27 .28 .25 .25	.17 .18 .19 .16	.63 1.3 .65 .38	.09 .34 .36 .43	23 22 21 21 19	61 54 47 41 34	2.1 1.9 1.7 1.7 2.3	11 9.1 8.3 8.6 7.3	2.3 1.7 1.0 .46 .20	
21 22 23 24 25	.66 .56 .54 .51	.46 .46 .49 .57	.33 .29 .29 .27	.33 .32 .27 .23	.25 .23 .23 .23 .23	.50 .58 .63 .82	.92 .91 .67 3.8 1.3	18 20 21 20 19	28 24 20 17 15	3.0 2.1 1.7 1.4 1.2	6.7 5.9 5.4 4.6 4.2	.19 .16 .11 .09	
26 27 28 29 30 31	.38 .68 .79 .77 .76	.49 .54 .42 .53 .46	. 28 . 31 . 43 . 45 . 47 . 48	.19 .16 .17 .18 .18	.23 .24 .24 	.72 1.1 1.1 .66 .76	3.3 4.8 8.4 15 25	18 17 16 15 14	12 11 9.8 8.4 7.4	1.2 1.1 3.5 5.5 28	5.7 7.0 5.3 4.9 4.5 4.4	.05 .05 .04 .04	
TOTAL MEAN MAX MIN AC-FT	24.00 .77 1.6 .38 48	16.25 .54 .77 .42 32	12.16 .39 .53 .27 24	.78 .16 18	.26 .16 12	18.80 .61 1.3 .23 37	66.46 2.22 25 .00 132	750 24.2 47 13 1490	1768.8 59.0 580 7.4 3510		411.9 13.3 33 4.2 817	51.48 1.72 4.6 .03 102	
MEAN MAX (WY) MIN (WY)	2.94 31.2 1985 .000 1979	1.33 14.2 1985 .000 1979	.33 2.88 1985 .000 1979	.19 .98 1985 .000 1979	.28 1.27 1983 .000 1979	.82 3.71 1987 .085 1989	4.88 18.2 1985 .064 1989	20.0 71.5 1995 .071 1981	12.7 59.0 1997 .31 1988	2.74 9.98 1985 .000 1978	5.41 27.1 1982 .000 1978	1.90 12.6 1982 .000 1978	
SUMMARY	STATIST	ICS	FOR 1	1996 CALENI	OAR YEAR	F	OR 1997 WAT	ER YEAF	2	WATER YE	EARS 1978	- 1997	
LOWEST HIGHEST LOWEST ANNUAL	MEAN TANNUAL M ANNUAL M TDAILY MEA DAILY MEA SEVEN-DAY	EAN EAN AN Y MINIMUM			Jul 10 Feb 24 Jul 2		3268.36 8.95 580 b.00	Apr 9	1 9	4.17 11.7 .22 580 a.00	Jun :	1985 1989 10 1997 30 1978 15 1978	
INSTANT ANNUAL 10 PERC 50 PERC	FANEOUS PE FANEOUS PE RUNOFF (A CENT EXCER CENT EXCER CENT EXCER	EAK STAGE AC-FT) EDS EDS		539 1.7 .50			6480 21 .67	Jun 10 Jun 10)	914 7.29 3020 12 .45	Jun Jun	10 1997 10 1997	

e-Estimated.

a-No flow at times most years. b-Also occurred Apr 15. c-From rating curve extended above 160 ft³/s on the basis of critical-depth measurement of peak flow.

07105945 ROCK CREEK ABOVE FORT CARSON RESERVATION, CO

 $LOCATION. --Lat\ 38^{o}42'27'', long\ 104^{o}50'46'', in\ NW^{1/4}NW^{1/4}\ sec. 36, T.15\ S., R.67\ W., El\ Paso\ County,\ Hydrologic\ Unit\ 11020003,\ on\ NW^{1/4}NW^{1/4}\ sec. 36, T.15\ S.,\ R.67\ W.,\ El\ Paso\ County,\ Hydrologic\ Unit\ 11020003,\ on\ NW^{1/4}NW^{1/4}\ sec. 36,\ T.15\ S.,\ R.67\ W.,\ El\ Paso\ County,\ Hydrologic\ Unit\ 11020003,\ on\ NW^{1/4}NW^{1/4}\ sec. 36,\ T.15\ S.,\ R.67\ W.,\ El\ Paso\ County,\ Hydrologic\ Unit\ 11020003,\ on\ NW^{1/4}NW^{1/4}\ sec. 36,\ T.15\ S.,\ R.67\ W.,\ El\ Paso\ County,\ Hydrologic\ Unit\ 11020003,\ on\ NW^{1/4}NW^{1/4}\ sec. 36,\ T.15\ S.,\ R.67\ W.,\ El\ Paso\ County,\ Hydrologic\ Unit\ 11020003,\ on\ NW^{1/4}NW^{1/4}\ sec.\ NW^{1/4}\ sec.\ NW^{1/4}\$ right bank 50 ft (revised) upstream from county road bridge, 0.6 mi northwest of Rock Creek Park, 1.2 mi upstream from State Highway 115, and 3.2 mi southwest of Ft. Carson.

DRAINAGE AREA.--6.79 mi²

PERIOD OF RECORD.--May 1978 to current year. Water-quality data available, May to September 1978.

REVISED RECORDS.--WDR CO-85-1: 1982.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,390 ft above sea level, from topographic map.

REMARKS.--Records fair except for Apr. 28 to May 21, June 9, and estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

			DISCH	HARGE, CUB	IC FEET PER		WATER YEAD Y MEAN VALU		R 1996 TO SE	EPTEMBER 1	1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.5 1.4 1.3 1.3	.75 .67 .65 .63	.47 e.43 .44 e.45 e.44	.57 .57 .58 .57	. 45 . 45 . 44 . 41 . 43	.40 .42 .42 .40 e.37	.94 .94 .94 .98	17 19	12 11 10 9.0 8.4	e7.5 e6.8 e6.2 e5.5 e5.2	e5.0 e4.7 e4.4 e4.5 e9.8	e3.6 e3.3 e3.3 e3.1 e2.8
6 7 8 9 10	1.1 1.1 1.0 .88 .82	.53 .54 .52 .53	e.45 .46 .45 .45	e.52 e.50 e.51 .52 .52	.46 .45 .43 .41	e.39 .41 .42 .45 .42	1.0 1.0 1.0 1.0	43 40 38 32 29	7.6 13 12 131 e255	e4.8 e4.3 e3.6 e3.2 e3.0	e8.0 e10 e10 e7.0 e6.6	e2.7 e2.6 e2.6 e2.5 e2.4
11 12 13 14 15	.80 .73 .66 .66	.55 .56 .51 .49	. 45 . 48 . 49 . 49 . 43	.49 .49 .49 .47 .46	.38 .38 .38 e.37 e.36	. 42 . 49 . 49 . 52 . 54	.81 1.0 1.0 1.0	27 25 23 21 20	e50 e36 e40 e49 e42	e3.0 e2.8 e2.6 e2.4 e2.2	e7.2 e6.5 e5.8 e4.6 e3.9	e2.3 e2.2 e2.2 e2.1 e2.1
16 17 18 19 20	.61 .61 .58 .59	.49 .47 .49 .49	e.42 e.37 .38 .43	.45 .43 .42 e.40 e.39	e.35 e.34 e.33 .32 .33	.53 .58 .57 .60	1.0 1.1 1.1 1.2 1.4	19 18 17 18 16	e39 e41 e38 e25 e23	e2.0 e1.8 e1.7 e1.9 e2.7	e3.1 e2.5 e2.2 e2.1 e4.5	e2.0 e2.0 e1.9 e1.9
21 22 23 24 25	.73 .68 .70 .65	.49 .48 .50 .53	.54 .53 .52 .51	e.40 .41 .41 .41 e.40	.32 .38 .39 .38	.72 .76 .76 .79	1.7 1.9 2.3 e6.8 5.7	e25 e35 e30 e25	e20 e18 e16 e14 e12	e2.6 e2.2 e1.9 e1.7 e1.4	e7.0 e6.3 e5.9 e5.4 e4.8	e1.8 e1.7 e1.5 e1.9
26 27 28 29 30 31	.64 .72 .82 .83 .76	.51 .52 .51 e.46 e.47	.51	e.39 .41 e.40 e.39 .41 .45	.39 .38 .38 	.83 .89 .90 .88 .85	5.7 8.0 15 27 33		e11 e11 e9.9 e9.1 e8.2	e1.5 e1.5 e3.4 e4.1 e6.4 e5.0	e5.2 e5.7 e4.8 e4.5 e4.2 e3.9	e1.8 e1.9 e1.9 e1.7
TOTAL MEAN MAX MIN AC-FT	26.05 .84 1.5 .58 52	15.95 .53 .75 .46 32	14.84 .48 .57 .37 29			18.50 .60 .93 .37 37	127.59 4.25 33 .81 253	731 23.6 43 13 1450	981.2 32.7 255 7.6 1950	104.9 3.38 7.5 1.4 208	170.1 5.49 10 2.1 337	67.0 2.23 3.6 1.4 133
STATIST	rics of M		AN DATA F			- 1997	, BY WATER					
MEAN MAX (WY) MIN (WY)	1.68 20.7 1985 .000 1979	1.08 10.7 1985 .028 1979	.51 2.25 1985 .051 1979	.48 1.42 1985 .073 1979	.49 1.33 1985 .12 1979	.97 2.43 1987 .29 1981	4.20 12.3 1985 .34 1981	10.7 39.1 1995 .41 1996	6.00 32.7 1997 .31 1996	2.08 7.23 1985 .010 1978	2.92 14.8 1982 .000 1978	1.41 7.75 1982 .000 1978
SUMMARY	Y STATIST	ICS	FOR	1996 CALE	NDAR YEAR	1	FOR 1997 W	ATER YEAR	!	WATER Y	EARS 1978	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT ANNUAL 10 PERC	MEAN F ANNUAL ANNUAL M F DAILY ME SEVEN-DA FANEOUS P	EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		313.2 .8 20 a.0 .0	<pre>Jul 10 May 22 May 18</pre>		e255 b.33 d.770 f.9.77 4530 1.0	Jun 10 2 Feb 19 4 Feb 15 Jun 10 1 Jun 10) ;	2.7 7.7 e255 C.0 d.770 f9.7 2000 6.1	70 36 Jun 00 Jul 10 Jun 71 Jun	1985 1989 10 1997 6 1978 6 1978 10 1997 10 1997

e-Estimated.
a-Also occurred May 23-24, and Jul 6-7.
b-Also occurred Feb 21.
c-No flow many days in most years.
d-Estimated on basis of slope-area measurement of peak flow at site 1.4 mi downstream.
f-From floodmarks.

07105950 ROCK CREEK NEAR FORT CARSON, CO

LOCATION.--Lat 38°41'49", long 104°49'39", in SW1/4SW1/4 sec.31, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on left bank at Fort Carson Scout Camp, 0.2 mi downstream from bridge on State Highway 115, and 2.9 mi southwest of Fort Carson. DRAINAGE AREA.--7.79 mi².

PERIOD OF RECORD.--May 1978 to current year. Water-quality data available, May 1978 to September 1981.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,150 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Some diversions upstream from station for irrigation and other uses, amounts unknown. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

REVISIONS.--Revised mean daily discharges, in cubic feet per second, for periods in September 1996, are given below. These figures supercede those published in the report for 1996.

S			published				. 10	1.0		0.06	a - 1 01	_	0 00
12	Sept	8 9 10	0.18 0.17 0.14	Sept	14 15 16	0	0.10 0.09 0.08	20 21 22		0.05 0.05 0.04	20 21 28	5	0.03 0.03 0.02
Net		12											
Mary 1996 49.95 1914 1915													
The color The						1.1	0.02						
1				DISCHA	RGE, CUBIC	FEET PEI				R 1996 TO	SEPTEMBEI	R 1997	
2	DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
3													
5													
6													
The column The													
8													
10	8	.01	.10	.01	.00	.00	.00	.00	22	11	e2.7	9.4	1.1
11													
12													
14	12	.02	.12	.00	.00	.00	.00	.00	18	78	2.1	8.9	.70
15													
17													
18													
19													
1													
22	20	.04	.16	.00	.00	.00	.00	.05	10	21	1.2	5.0	.44
23													
24													
1			.16					2.2					.27
27													
28													
30													
31													
MEAN .029 .12 .014 .000 .000 .000 3.10 14.6 34.5 2.24 5.06 .72 MAX .06 .17 .10 .00 .00 .00 .00 .00 .15 3.6 .88 .88 .14 AC-FT 1.8 7.4 .9 .00 .00 .00 .00 1.5 3.6 .88 .88 .14 AC-FT 1.8 7.4 .9 .00 .00 .00 .15 3.6 .88 .88 .14 AC-FT 1.8 7.4 .9 .00 .00 .00 1.5 3.6 .88 .88 .14 AC-FT 1.8 7.4 .9 .00 .0													
MAX													
MIN													
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1997, BY WATER YEAR (WY) MEAN 1.06	MIN	.01	.06	.00	.00	.00	.00	.00	1.5	3.6	.88	.88	.14
MEAN 1.06											137	311	43
MAX 18.6 9.66 1.43 .81 .67 1.28 10.0 42.8 34.5 6.57 15.4 6.75 (WY) 1985 1985 1985 1985 1985 1985 1985 1985											1 10	1 65	61
MIN													
March 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1981 1989 1989 1978													
ANNUAL TOTAL													
ANNUAL MEAN .15 5.02 1.88 6.24 1985	SUMMARY	STATISTI	CS	FOR 1	996 CALENI	DAR YEAR	R F	OR 1997 WA	TER YEAR	3	WATER	YEARS 1978	- 1997
HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN 16 Jul 10 337 Jun 10 337 Jun 10 1989 HOWEST DAILY MEAN 10 Jan 1 b.00 Dec 9 a.00 Jun 15 1978 ANNUAL SEVEN-DAY MINIMUM 10 Jan 1 c.00 Dec 9 .00 Jun 15 1978 INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 109 ANNUAL RUNOFF (AC-FT) 109 PERCENT EXCEEDS 100 110 110 110 110 110 110 1													
LOWEST ANNUAL MEAN HIGHEST DAILY MEAN 16 Jul 10 337 Jun 10 337 Jun 10 1997 LOWEST DAILY MEAN A 00 Jan 1			FΔN		.15			5.02	!				1985
LOWEST DAILY MEAN												.000	1989
TINSTANTANEOUS PEAK FLOW 770								337 b	Jun 10)	337 a	Jun	
TINSTANTANEOUS PEAK FLOW 770					.00	Jan 1 Jan 1	<u>-</u>	.00	Dec 9)		.00 Jun .00 Jun	
INSTANTANEOUS PEAK STAGE	INSTANT	ANEOUS PE	AK FLOW					770	Jun 10)	770	Jun	10 1997
10 PERCENT EXCEEDS .20 13 4.1 50 PERCENT EXCEEDS .00 .10 .00 90 PERCENT EXCEEDS .00 .00 .00					100			⁴ 7.28	Jun 10)	1260	.28 Jun	10 1997
50 PERCENT EXCEEDS .00 .10 .00 90 PERCENT EXCEEDS .00 .00 .00													
	50 PERC	ENT EXCEE	DS		.00								
e-Estimated.			00		.00			.00	•				

e-Estimated

e-sstimated. a-No flow most of time. b-No flow many days. c-From rating curve extended above 100 ft³/s on basis of slope-area measurement of peak flow. d-From floodmarks.

07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO

LOCATION.--Lat 38°36'06", long 104°40'11", in SW1/4NE1/4 sec.4, T.17 S., R.65 W., El Paso County, Hydrologic Unit 11020003, on right bank 50 ft upstream from Old Pueblo Road bridge, 100 ft downstream from Denver & Rio Grande Railroad bridge, 0.9 mi downstream from Little Fountain Creek, and 5.6 mi south of Fountain.

DRAINAGE AREA.--681 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1938 to February 1940 (monthly records only), March 1940 to September 1954; July 1985 to current year.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 5,355 ft above sea level, from topographic map. Sept. 18, 1938 to Mar. 1, 1940, nonrecording gage, at site 50 ft downstream, at different datum. Mar. 2, 1940 to Sept. 30, 1954, at site 200 ft upstream, at different datum. July 2, 1985 to Sept. 2, 1987, at site 500 ft upstream, at different datum. Sept. 3, 1987 to Mar. 12, 1990, at site 1,100 ft upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges and those above 1,000 ft³/s, which are poor. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation and municipal use, return flows from irrigation, and sewage effluent discharges.

EXTREMES OUTSIDE PERIOD OF RECORD .-- Maximum stage known, 14.4 ft, at different datum, May 30, 1935, discharge undetermined. Floods of May 1935 and June 1965 probably exceeded flood of May 1940. DISCULLEGE CURVICE FEET PER CECOLE WATER VELL ROCTORER 1000 MG

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	207 209 219 216 274	167 171 169 170 160	161 181 156 170 172	104 106 109 108 100	153 147 145 132 136	138 148 142 136 132	115 146 152 140 127	331 316 281 266 275	198 215 182 178 174	234 229 218 193 207	418 265 288 272 1540	241 230 229 260 369		
6 7 8 9	196 196 197 191 178	157 150 159 156 153	181 163 160 167 144	108 96 104 e110	133 133 133 137 132	134 137 134 133 135	116 112 104 103 102	347 357 349 339 313	846 2420 1140 1770 5470	201 194 174 174 160	966 480 354 302 417	290 319 233 215 194		
11 12 13 14 15	170 167 167 175 156	165 160 150 151 155	147 119 115 119 109	e110 e105 e120 e130 119	132 133 128 128 138	131 130 131 132 131	97 103 111 106 86	287 376 285 257 261	2440 1860 1590 e3800 e2000	168 184 159 133 155	615 336 550 290 254	186 195 177 172 155		
16 17 18 19 20	128 119 133 146 158	156 145 163 158 150	111 99 89 92 95	107 104 108 116 126	137 135 132 130 127	136 134 135 132 128	72 74 58 66 58	256 247 244 310 264	e1400 772 697 602 488	185 120 122 214 212	268 349 466 257 257	140 136 132 144 179		
21 22 23 24 25	213 150 148 140 135	149 153 176 189 168	95 111 116 108 108	119 98 103 112 114	125 126 129 126 127	129 130 131 176 147	95 253 185 1000 688	286 631 410 258 268	412 391 383 628 445	119 118 98 87 76	238 213 219 215 507	182 178 206 169 155		
26 27 28 29 30 31	141 210 192 175 170 173	166 176 173 180 170	110 110 117 114 114 109	118 124 141 155 151 157	141 136 136 	149 154 145 148 148 136	729 607 490 324 341	285 254 242 344 295 216	443 405 373 355 310	205 172 536 580 1200 494	558 261 248 242 247 239	160 144 145 138 117		
TOTAL MEAN MAX MIN AC-FT	5449 176 274 119 10810	4865 162 189 145 9650	3962 128 181 89 7860	3592 116 157 96 7120	3747 134 153 125 7430	4282 138 176 128 8490	6760 225 1000 58 13410	9450 305 631 216 18740	32387 1080 5470 174 64240	7321 236 1200 76 14520	12131 391 1540 213 24060	5790 193 369 117 11480		
STATIS	TICS OF MC	NTHLY MEA	N DATA FO	R WATER	YEARS 1939	- 1997,	, BY WATER	R YEAR (WY)						
MEAN MAX (WY) MIN (WY)	58.2 201 1995 3.70 1954	71.6 162 1997 10.0 1940	59.4 155 1986 5.14 1953	61.4 167 1996 6.99 1952	66.8 152 1996 6.07 1941	75.1 199 1987 6.39 1941	99.0 590 1942 4.30 1954	189 899 1995 9.78 1950	167 1080 1997 4.50 1953	99.4 432 1995 3.47 1952	120 476 1945 3.15 1954	60.5 207 1996 1.31 1939		
SUMMAR	Y STATISTI	CS	FOR 1	996 CALE	NDAR YEAR	F	FOR 1997 V	WATER YEAR		WATER YE	ARS 1939	9 - 1997		
LOWEST		CAN		58891 161 1130	Jul 10		99736 273 5470	Jun 10		93.5 295 10.3 5470	Jun	1995 1953 10 1997		
ANNUAL INSTAN INSTAN ANNUAL 10 PER 50 PER 90 PER	DAILY MEA SEVEN-DAY TANEOUS PE TANEOUS PE RUNOFF (A CENT EXCEE CENT EXCEE CENT EXCEE	MINIMUM CAK FLOW CAK STAGE AC-FT) CDS CDS		32 42 116800 221 150 65	Apr 28 Apr 23		a58 73 c11500 9.9 197800 428 160 109	Apr 18 Apr 15 Jun 14 91 Jun 14		b.00 .27 d ₂₂₁₀₀ f,g ₉ .19 67770 185 51 6.5	Jul May	24 1939 18 1939 28 1940 28 1940		

e-Estimated.

e-Estimated.
a-Also occurred Apr 20.
b-Also occurred Sep 30, 1939.
c-From rating curve extended above 5400 ft³/s.
d-From rating curve extended above 3000 ft³/s, on basis of slope-area measurement of peak flow.

f-At different datum. g-Maximum gage height, 10.34 ft, Sep 3, 1994, present datum.

07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1987 to current year.

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: November 1987 to current year.

pH: November 1987 to current year.

WATER TEMPERATURE: November 1987 to current year. DISSOLVED OXYGEN: November 1987 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Records for daily specific conductance are fair. Records for daily pH are fair. Records for daily water temperature are good except June 7-25, which are fair. Records for daily dissolved oxygen are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 1,660 microsiemens, Aug. 27-28, 1996; minimum, 141 microsiemens, Aug. 8, 1991. pH: Maximum, 8.5 units, July 15, Sept. 4, 1991; minimum 6.5 units, Oct. 26, 28-29, 31, 1995. WATER TEMPERATURE: Maximum, 31.8°C, July 9, 1990; minimum, 0.0°C, on many days during winter months.

DISSOLVED OXYGEN: Maximum, 12.6 mg/L, Dec. 20, 1987; minimum, 3.7 mg/L, July 9, 1993.

EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 1,220 microsiemens, Jan. 16-17; minimum, 296 microsiemens, June 8. pH: Maximum, 8.3 units, Sept. 15; minimum, 7.3 units, Nov. 23-24, Apr. 22-24. WATER TEMPERATURE: Maximum, 29.0°C, July 23; minimum, 0.0°C, many days. DISSOLVED OXYGEN: Maximum, 12.2 mg/L, Mar. 15; minimum, 4.9 mg/L, July 19-20.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		D	ECEMBER			JANUARY	Z.
1 2	880 873	808 818	843 854	965 946	852 906	921 931	1040 1010	975 970	1000	1110 1100	1040 1030	1070 1080
	873 889			946	906 864		1010	970 974	993		1030	1080
3 4	889	844	860	929	864	901	1020	974 984	1010	1110 1110	1020	1070
5				957	833	845	1020	979	1000	1130	1040	1070
6							1010	975	995	1100	1040	1070
7				952	894	922	1020	980	997	1140	1070	1110
8	883	839	861	913	869	894	1010	993	1000	1160	1100	1130
9	880	841	863	911	861	891	1000	977	992	1130	1060	1100
10	880	829	856	887	861	874	1030	977	999	1100	1030	1060
11	888	857	870				1030	997	1010	1100	1030	1070
12							1040	1010	1030	1140	1080	1100
13							1050	1010	1030	1120	1090	1110
14							1060	1010	1030	1110	1040	1080
15				982	928	945	1060	1000	1030	1120	1040	1080
13				702	220	243	1000	1000	1030	1120	1040	1000
16				984	926	952	1050	990	1020	1220	1090	1180
17				984	920	951	1090	994	1040	1220	1110	1170
18				931	884	902	1140	1050	1090	1180	1090	1120
19							1100	1010	1060	1210	1090	1160
20				976	930	941	1040	977	1020	1170	1100	1140
21				972	922	945	1010	968	989	1160	1070	1110
22				977	933	948	994	957	975	1140	1070	1100
23				968	925	952	991	950	966	1130	1080	1100
24				987	925	963	1000	958	979	1140	1070	1090
25	954	886	923	982	937	955	992	955	971	1120	1050	1090
26	923	875	897	1000	949	969	992	949	968	1120	1050	1080
27				1050	949	982	990	948	965	1100	997	1050
28				1130	1010	1090	988	949	962	1060	987	1020
29				1010	967	991	1010	951	977	1030	997	1010
30				1020	969	997	1040	977	1000	1040	992	1010
31	942	834	900				1060	1010	1030	1010	981	997
J±	712	034	200				1000	1010	1000	1010	701	221
MONTH							1140	948	1000	1220	981	1090

07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1							991	941	968			
2							980	897	950			
3				988	896	948	960	882	918			
4	1000	070		1000	909	966	955	930	941			
5	1020	970	989				990	948	967			
6	986	915	952	1000								
7	925	870	894									
8	926	863	889									
9 10	933 948	872 890	898 915	993	932	 961						
10	240	690	913	993	934	901						
11	963	924	939	971	891	934	985	944	962			
12	988	950	964	940	900	917	991	911	944	===		
13	981						950	888	915	591		
14 15							949 968	886 891	914 915	639 640	529 611	595 631
13							300	071	713	010	011	031
16							967	929	945	636	597	624
17							984	916	939	657	626	640
18 19				988 997	952 949	965 969	1070 1020	984 883	1020 977	710 687	616 622	652 656
20				995	949	970	1010	890	943	688	643	664
20				,,,,	7 10	3.0	1010	0,50	, 15	000	0.15	001
21	1000			981	936	957	959	887	911	696	587	660
22	1010			977	902	956				662	562	621
23 24				956 992	910 882	939 958	785	 478	632	665 	535	589
25				988	948	961	742	610	676			
26				979	934	959	751	602	676			
27 28	1000 987	905	 0E1	970 978	896 894	948	752 	611	682	702	 593	661
29		905	951	982	922	935 950				705	499	661 626
30				967	921	945	774	658	722	614	499	573
31				976	925	942				622	569	599
140177777												
MONTH												
		TIINE			V. IIIT.		7	AUGUST		9	SEPTEMBE	R
		JUNE			JULY			AUGUST			SEPTEMBE	
1	653	622	641	827	793	811	919	678	773	783	703	742
2	662	622 615	637	828	793 793	809	919 983	678 882	928	783 785	703 729	742 761
2 3	662 718	622 615 661	637 689	828 842	793 793 752	809 798	919 983 941	678 882 854	928 890	783 785 755	703 729 718	742 761 741
2	662	622 615	637	828	793 793	809	919 983	678 882	928	783 785	703 729	742 761
2 3 4 5	662 718 739 706	622 615 661 669 555	637 689 701 648	828 842 783 851	793 793 752 717 720	809 798 750 775	919 983 941 907 780	678 882 854 780 384	928 890 883 550	783 785 755 750 764	703 729 718 	742 761 741
2 3 4 5	662 718 739 706	622 615 661 669 555	637 689 701 648	828 842 783 851	793 793 752 717 720	809 798 750 775 875	919 983 941 907 780	678 882 854 780 384	928 890 883 550	783 785 755 750 764	703 729 718 	742 761 741
2 3 4 5 6 7	662 718 739 706 697 408	622 615 661 669 555 348 310	637 689 701 648 572 370	828 842 783 851 897 917	793 793 752 717 720 838 852	809 798 750 775 875 894	919 983 941 907 780 727 776	678 882 854 780 384 508 708	928 890 883 550 670 747	783 785 755 750 764	703 729 718 	742 761 741
2 3 4 5	662 718 739 706 697 408 425	622 615 661 669 555 348 310 296	637 689 701 648 572 370 379	828 842 783 851 897 917 943	793 793 752 717 720	809 798 750 775 875	919 983 941 907 780 727 776 788	678 882 854 780 384 508 708 738	928 890 883 550 670 747 770	783 785 755 750 764	703 729 718 	742 761 741
2 3 4 5 6 7 8	662 718 739 706 697 408	622 615 661 669 555 348 310	637 689 701 648 572 370	828 842 783 851 897 917	793 793 752 717 720 838 852 892	809 798 750 775 875 894 921	919 983 941 907 780 727 776	678 882 854 780 384 508 708	928 890 883 550 670 747	783 785 755 750 764	703 729 718 	742 761 741
2 3 4 5 6 7 8 9	662 718 739 706 697 408 425 384	622 615 661 669 555 348 310 296 306	637 689 701 648 572 370 379 345	828 842 783 851 897 917 943 939	793 793 752 717 720 838 852 892 894	809 798 750 775 875 894 921 921	919 983 941 907 780 727 776 788 773 770	678 882 854 780 384 508 708 738 737 602	928 890 883 550 670 747 770 761 710	783 785 755 750 764 	703 729 718 	742 761 741
2 3 4 5 6 7 8 9 10	662 718 739 706 697 408 425 384 	622 615 661 669 555 348 310 296 306	637 689 701 648 572 370 379 345 	828 842 783 851 897 917 943 939 	793 793 752 717 720 838 852 892 894 	809 798 750 775 875 894 921 921	919 983 941 907 780 727 776 788 773 770	678 882 854 780 384 508 708 738 737 602	928 890 883 550 670 747 770 761 710	783 785 755 750 764	703 729 718 	742 761 741
2 3 4 5 6 7 8 9	662 718 739 706 697 408 425 384	622 615 661 669 555 348 310 296 306	637 689 701 648 572 370 379 345	828 842 783 851 897 917 943 939	793 793 752 717 720 838 852 892 894	809 798 750 775 875 894 921 921 	919 983 941 907 780 727 776 788 773 770	678 882 854 780 384 508 708 738 737 602 454 628	928 890 883 550 670 747 770 761 710 568 651	783 785 755 750 764 	703 729 718 	742 761 741 914
2 3 4 5 6 7 8 9 10	662 718 739 706 697 408 425 384 	622 615 661 669 555 348 310 296 306	637 689 701 648 572 370 379 345 	828 842 783 851 897 917 943 939 	793 793 752 717 720 838 852 892 894 	809 798 750 775 875 894 921 921	919 983 941 907 780 727 776 788 773 770 675 692	678 882 854 780 384 508 738 737 602 454 628 486 713	928 890 883 550 670 747 770 761 710	783 785 755 750 764 940	703 729 718 876	742 761 741 914 944 930
2 3 4 5 6 7 8 9 10 11 12 13	662 718 739 706 697 408 425 384 	622 615 661 669 555 348 310 296 306 	637 689 701 648 572 370 379 345 	828 842 783 851 897 917 943 939 	793 793 752 717 720 838 852 892 894 823 817	809 798 750 775 875 894 921 921 929 856	919 983 941 907 780 727 776 788 773 770 675 692 725	678 882 854 780 384 508 708 738 737 602 454 628 486	928 890 883 550 670 747 770 761 710 568 651 615	783 785 755 750 764 940 970	703 729 718 876 895	742 761 741 914 944
2 3 4 5 6 7 8 9 10 11 12 13 14 15	662 718 739 706 697 408 425 384 	622 615 661 669 555 348 310 296 306 	637 689 701 648 572 370 379 345 	828 842 783 851 897 917 943 939 1030 906 1090	793 793 752 717 720 838 852 892 894 823 817 906 948	809 798 750 775 875 894 921 921 929 856 1000 1010	919 983 941 907 780 727 776 788 773 770 675 692 725 770 846	678 882 854 780 384 508 738 737 602 454 4628 486 713 770	928 890 883 550 670 747 770 761 710 568 651 615 739 807	783 785 755 750 764 940 970 967 992	703 729 718 876 895 890 895	742 761 741 914 930 954
2 3 4 5 6 7 8 9 10 11 12 13 14 15	662 718 739 706 697 408 425 384 	622 615 661 669 555 348 310 296 306 	637 689 701 648 572 370 379 345 	828 842 783 851 897 917 943 939 1030 906 1090 1040	793 793 752 717 720 838 852 892 894 823 817 906 948	809 798 750 775 875 894 921 921 929 856 1000 1010	919 983 941 907 780 727 776 788 773 770 675 692 725 770 846	678 882 854 780 384 508 738 737 602 454 628 413 770	928 890 883 550 670 747 770 761 710 568 651 615 739 807	783 785 755 750 764 940 970 967 992	703 729 718 876 895 890 895	742 761 741 914 944 930 954
2 3 4 5 6 7 8 9 10 11 12 13 14 15	662 718 739 706 697 408 425 384 	622 615 661 669 555 348 310 296 306 	637 689 701 648 572 370 379 345 	828 842 783 851 897 917 943 939 1030 906 1090	793 793 752 717 720 838 852 892 894 823 817 906 948	809 798 750 775 875 894 921 921 929 856 1000 1010	919 983 941 907 780 727 776 788 773 770 675 692 725 770 846	678 882 854 780 384 508 738 737 602 454 4628 486 713 770	928 890 883 550 670 747 770 761 710 568 651 615 739 807	783 785 755 750 764 940 970 967 992	703 729 718 876 895 890 895	742 761 741 914 930 954
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	662 718 739 706 697 408 425 384 	622 615 661 669 555 348 310 296 306 	637 689 701 648 572 370 379 345 	828 842 783 851 897 917 943 939 1030 906 1090 1040	793 793 752 717 720 838 852 892 894 823 823 817 906 948 1020 811 861 863	809 798 750 775 875 894 921 921 929 856 1000 1010 1050 924 871 878	919 983 941 907 780 727 776 788 773 770 675 692 725 770 846 866 876 787 856	678 882 854 780 384 508 738 737 602 454 628 713 770 701 608 441 762	928 890 883 550 670 747 770 761 710 568 651 615 739 807	783 785 755 750 764 940 970 967 992 982 1030 1030	703 729 718 876 895 895 895 895 895 982 967 940	742 761 741 914 944 930 954 921 1000 995
2 3 4 5 6 7 8 9 10 11 12 13 14 15	662 718 739 706 697 408 425 384 	622 615 661 669 555 348 310 296 306 	637 689 701 648 572 370 379 345 	828 842 783 851 897 917 943 939 1030 906 1090 1040	793 793 752 717 720 838 852 892 894 823 817 906 948 1020 811 861	809 798 750 775 875 894 921 921 856 1000 1010	919 983 941 907 780 727 776 788 773 770 675 692 725 770 846 866 876 787	678 882 854 780 384 508 738 737 602 454 628 486 713 770 701 608 441	928 890 883 550 670 747 770 761 710 568 651 615 739 807 834 857 627	783 785 755 750 764 940 970 967 992 982 1030 1030	703 729 718 876 895 895 895 875 982 967	742 761 741 914 930 954 921 1000 995
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	662 718 739 706 697 408 425 384 	622 615 661 669 555 348 310 296 306 	637 689 701 648 572 370 379 345 	828 842 783 851 897 917 943 939 906 1090 1040 1080 1040 899 898 	793 793 752 717 720 838 852 892 894 823 817 906 948 1020 811 861 863	809 798 750 775 875 894 921 921 856 1000 1010 1050 924 871 878 	919 983 941 907 780 727 776 788 773 770 675 692 725 770 846 866 876 787 856 787	678 882 854 780 384 508 738 737 602 454 4628 486 713 770 701 608 441 762 624	928 890 883 550 670 747 770 761 710 568 651 615 739 807 834 857 627 807 726	783 785 755 750 764 940 970 967 992 982 1030 1030 1030 956	703 729 718 876 895 895 895 875 982 967 940	742 761 741 914 944 930 954 921 1000 995
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	662 718 739 706 697 408 425 384 	622 615 661 669 555 348 310 296 306 	637 689 701 648 572 370 379 345 	828 842 783 851 897 917 943 939 1030 906 1090 1040	793 793 752 717 720 838 852 892 894 823 823 817 906 948 1020 811 861 863	809 798 750 775 875 894 921 921 929 856 1000 1010 1050 924 871 878	919 983 941 907 780 727 776 788 773 770 675 692 725 770 846 866 876 787 856	678 882 854 780 384 508 738 737 602 454 628 713 770 701 608 441 762	928 890 883 550 670 747 770 761 710 568 651 615 739 807	783 785 755 750 764 940 970 967 992 982 1030 1030	703 729 718 876 895 895 895 895 895 982 967 940	742 761 741 914 944 930 954 921 1000 995
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	662 718 739 706 697 408 425 384 	622 615 661 669 555 348 310 296 306 	637 689 701 648 572 370 379 345 	828 842 783 851 897 917 943 939 906 1090 1040 1080 1040 899 898 	793 793 752 717 720 838 852 892 894 823 817 906 948 1020 811 861 863 1040 1080	809 798 750 775 875 894 921 921 856 1000 1010 1050 924 871 878 	919 983 941 907 780 727 776 788 773 770 675 692 725 770 846 866 876 787 856 787	678 882 854 780 384 508 738 737 602 454 4628 486 713 770 701 608 441 762 624 770 764 753	928 890 883 550 670 747 770 761 710 568 651 615 739 807 834 857 627 807 726	783 785 785 750 764 940 970 967 992 982 1030 1030 1030 956 1030	703 729 718 876 895 895 895 895 875 982 967 940	742 761 741 914 944 930 954 921 1000 995 1000
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	662 718 739 706 697 408 425 384 	622 615 661 669 555 348 310 296 306 	637 689 701 648 572 370 379 345 	828 842 783 851 897 917 943 939 1030 906 1090 1040 1080 1040 899 898 	793 793 752 717 720 838 852 892 894 823 906 948 1020 811 861 863 1040 1080 1120	809 798 750 775 875 894 921 921 856 1000 1010 1050 924 871 878 	919 983 941 907 780 727 776 788 773 770 675 692 725 770 846 876 878 856 787 856 787	678 882 854 780 384 508 738 737 602 454 628 486 713 770 701 608 441 762 624 770 764 753 772	928 890 883 550 670 747 770 761 710 568 651 615 739 807 834 857 627 807 726 784 778 775 782	783 785 755 750 764 940 970 967 992 982 1030 1030 1030 956 1030 937	703 729 718 876 895 895 895 875 982 967 940	742 761 741 914 944 930 954 921 1000 995 1000
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	662 718 739 706 697 408 425 384 	622 615 661 669 555 348 310 296 306 	637 689 701 648 572 370 379 345 	828 842 783 851 897 917 943 939 906 1090 1040 1080 1040 899 898 	793 793 752 717 720 838 852 892 894 823 817 906 948 1020 811 861 863 1040 1080	809 798 750 775 875 894 921 921 856 1000 1010 1050 924 871 878 	919 983 941 907 780 727 776 788 773 770 675 692 725 770 846 866 876 787 856 787	678 882 854 780 384 508 738 737 602 454 4628 486 713 770 701 608 441 762 624 770 764 753	928 890 883 550 670 747 770 761 710 568 651 615 739 807 834 857 627 807 726	783 785 785 750 764 940 970 967 992 982 1030 1030 1030 956 1030	703 729 718 876 895 895 895 895 875 982 967 940	742 761 741 914 944 930 954 921 1000 995 1000
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	662 718 739 706 697 408 425 384 	622 615 661 669 555 348 310 296 306 	637 689 701 648 572 370 379 345 	828 842 783 851 897 917 943 939 1030 906 1090 1040 1080 1040 899 898 	793 793 752 717 720 838 852 892 894 823 906 948 1020 811 861 863 1040 1080 1120	809 798 750 775 875 894 921 921 856 1000 1010 1050 924 871 878 	919 983 941 907 780 727 776 788 773 770 675 692 725 770 846 876 878 856 787 856 787	678 882 854 780 384 508 738 737 602 454 628 486 713 770 701 608 441 762 624 770 764 753 772	928 890 883 550 670 747 770 761 710 568 651 615 739 807 834 857 627 807 726 784 778 775 782	783 785 755 750 764 940 970 967 992 982 1030 1030 1030 956 1030 937	703 729 718 876 895 895 895 875 982 967 940	742 761 741 914 944 930 954 921 1000 995 1000
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	662 718 739 706 697 408 425 384 702 751 743	622 615 661 669 555 348 310 296 306 	637 689 701 648 572 370 379 345 684	828 842 783 851 897 917 943 939 906 1090 1040 1080 1040 899 898 1090 1130 1150 1160	793 793 752 717 720 838 852 892 894 823 817 906 948 1020 811 861 863 1040 1080 1120 1070 604 612	809 798 750 775 875 894 921 856 1000 1010 1050 924 871 878 1070 1110 1140 1140	919 983 941 907 780 727 776 788 773 770 675 692 725 770 846 876 876 877 856 787 856 787 856 787	678 882 854 780 384 508 738 737 602 454 628 486 713 770 701 608 441 762 624 770 764 753 772 482	928 890 883 550 670 747 770 761 710 568 651 615 739 807 726 784 778 775 782 728	783 785 755 750 764 940 970 967 992 982 1030 1030 1030 956 1030 937	703 729 718 876 895 890 895 875 982 967 940	742 761 741 914 944 930 954 921 1000 995 1000
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	662 718 739 706 697 408 425 384 702 751 743 762	622 615 661 669 555 348 310 296 306 	637 689 701 648 572 370 379 345 684 707 722 746	828 842 783 851 897 917 943 939 906 1090 1040 1080 1040 899 898 1090 1130 1150 1160	793 793 752 717 720 838 852 894 823 817 906 948 1020 811 861 863 1040 1080 1120 1070 604 612 575	809 798 750 775 875 894 921 921 856 1000 1010 1050 924 871 878 1070 1110 1140 1140	919 983 941 907 780 727 776 788 773 770 675 692 725 770 846 866 876 787 856 787 805 793 791 787 788	678 882 854 780 384 508 738 737 602 454 4628 486 713 770 701 608 441 762 624 770 764 753 772 482 405 636 756	928 890 883 550 670 747 770 761 710 568 651 615 739 807 834 857 627 807 726 788 775 782 728	783 785 785 755 750 764 940 970 967 992 982 1030 1030 1030 1030 956 1030 937	703 729 718 876 895 890 895 875 982 967 940	742 761 741 914 944 930 954 921 1000 995 1000
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	662 718 739 706 697 408 425 384 702 751 743 762 756	622 615 661 669 555 348 310 296 306 	637 689 701 648 572 370 379 345 684 707 722 746	828 842 783 851 897 917 943 939 906 1090 1040 1080 1040 899 898 1090 1130 1150 1160	793 793 793 752 717 720 838 852 892 894 823 906 948 1020 811 861 863 1040 1080 1120 1070 604 612 575 379	809 798 750 775 875 894 921 921 856 1000 1010 1050 924 871 878 1070 1110 1140 1140 1140	919 983 941 907 780 727 776 788 773 770 675 692 725 770 846 866 876 787 856 787 856 787 856 787 856 787	678 882 854 780 384 508 708 737 602 454 628 486 713 770 701 608 441 762 624 770 764 753 772 482 405 636 756 704	928 890 883 550 670 747 770 761 710 568 651 615 739 807 834 857 627 807 726 784 775 782 728 516 757 806 750	783 785 755 750 764 940 970 967 992 982 1030 1030 1030 956 1030 937	703 729 718 876 895 895 895 875 982 967 940	742 761 741 914 944 930 954 921 1000
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	662 718 739 706 697 408 425 384 702 751 743 762	622 615 661 669 555 348 310 296 306 	637 689 701 648 572 370 379 345 684 707 722 746	828 842 783 851 897 917 943 939 906 1090 1040 1080 1040 899 898 1090 1130 1150 1150 1160	793 793 793 752 717 720 838 852 894 823 817 906 948 1020 811 861 863 1040 1080 1120 1070 604 612 575 379 358	809 798 750 775 875 894 921 856 1000 1010 1050 924 871 878 1070 1110 1140 1140 1140	919 983 941 907 780 727 776 788 773 770 675 692 725 770 846 876 876 787 856 787 857 793 791 787 788	678 882 854 780 384 508 738 737 602 454 628 770 701 608 441 762 624 770 764 752 482 405 636 756 702	928 890 883 550 670 747 770 761 710 568 651 615 739 807 726 784 778 7726 782 728 516 757 806 757	783 785 785 755 750 764 940 970 967 992 982 1030 1030 1030 1030 956 1030 937	703 729 718 876 895 890 895 875 982 967 940	742 761 741 914 944 930 954 921 1000 995 1000
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	662 718 739 706 697 408 425 384 702 751 743 762 756	622 615 661 669 555 348 310 296 306 	637 689 701 648 572 370 345 684 707 722 746 	828 842 783 851 897 917 943 939 906 1090 1040 1080 1040 899 898 1090 1130 1150 1160	793 793 793 752 717 720 838 852 892 894 823 906 948 1020 811 861 863 1040 1080 1120 1070 604 612 575 379	809 798 750 775 875 894 921 921 856 1000 1010 1050 924 871 878 1070 1110 1140 1140 1140	919 983 941 907 780 727 776 788 773 770 675 692 725 770 846 866 876 787 856 787 856 787 805 793 791 788 636 831 842 799 777 744	678 882 854 780 384 508 708 737 602 454 4628 486 713 770 701 608 441 762 624 770 764 772 482 405 636 756 704 702 697	928 890 883 550 670 747 770 761 710 568 651 615 739 807 827 827 726 784 775 782 728 516 757 806 750 733 733	783 785 755 750 764 940 970 967 992 982 1030 1030 1030 956 1030 1030 1030 1030 1030 1030	703 729 718 876 895 890 895 875 982 967 940	742 761 741 914 944 930 954 921 1000 995 1000
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	662 718 739 706 697 408 425 384 702 751 743 762 756	622 615 661 669 555 348 310 296 306 	637 689 701 648 572 370 345 684 707 722 746 	828 842 783 851 897 917 943 939 906 1090 1040 1080 1040 899 898 1090 1130 1150 1150 1160	793 793 793 752 717 720 838 852 894 823 817 906 948 1020 811 861 863 1040 1080 1120 1070 604 612 575 379 358	809 798 750 775 875 894 921 856 1000 1010 1050 924 871 878 1070 1110 1140 1140 1140	919 983 941 907 780 727 776 788 773 770 675 692 725 770 846 876 876 787 856 787 857 793 791 787 788	678 882 854 780 384 508 738 737 602 454 628 770 701 608 441 762 624 770 764 752 482 405 636 756 702	928 890 883 550 670 747 770 761 710 568 651 615 739 807 726 784 778 7726 782 728 516 757 806 757	783 785 755 750 764 940 970 967 992 982 1030 1030 1030 956 1030 1030 1030 1030 1030 1030	703 729 718 876 895 890 895 875 982 967 940	742 761 741 914 944 930 954 921 1000 995 1000

07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO--Continued

pH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

			рп, wA	EK, WHOLE	c, FIELD, S	TANDAKD (JNIIS, WAII	EK I EAK	JC TOBER 15	996 IO SEPII	EMDEK 19	97
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DE	ECEMBER			JANUARY	
1 2 3 4 5	7.8 7.8 7.7 7.8 7.8	7.6 7.6 7.6 7.6 7.6	7.7 7.7 7.6 7.7 7.7	7.8 7.8 7.8 7.8 7.8	7.7 7.7 7.6 7.7 7.7	7.7 7.7 7.7 7.7 7.7	7.6 7.6 7.7 7.7 7.8	7.6 7.5 7.5 7.6 7.5	7.6 7.6 7.6 7.7 7.7	7.8 8.0 7.9 7.9 7.8	7.7 7.7 7.9 7.8 7.7	7.7 7.8 7.9 7.8 7.8
6 7 8 9 10	8.0 8.1 8.1 8.1	7.8 7.8 7.9 8.0 8.0	7.9 7.9 8.0 8.0	7.8 7.8 7.8 7.8 7.8	7.7 7.7 7.7 7.7 7.6	7.7 7.7 7.7 7.7 7.7	7.8 7.8 7.9 7.8 7.7	7.7 7.8 7.7 7.6 7.6	7.8 7.8 7.8 7.7 7.6	7.8 7.8 7.8 7.8 7.8	7.7 7.7 7.6 7.6 7.7	7.8 7.7 7.7 7.7 7.8
11 12 13 14 15	8.1 8.1 8.1	8.0 	8.0 	7.9 7.9 7.8 7.8 7.9	7.7 7.7 7.7 7.7 7.7	7.8 7.7 7.7 7.7 7.8	7.7 7.7 7.8 7.7 7.7	7.6 7.6 7.5 7.6 7.5	7.7 7.7 7.6 7.6 7.6	7.8 7.8 7.7 7.7	7.6 7.6 7.6 7.5 7.4	7.7 7.6 7.6 7.6 7.6
16 17 18 19 20	 	 		7.8 7.7 7.6 7.7 7.6	7.6 7.6 7.5 7.5 7.4	7.7 7.6 7.6 7.6 7.5	7.6 7.6 7.7 7.7	7.5 7.5 7.5 7.5 7.4	7.6 7.5 7.6 7.6 7.6	7.7 7.7 7.7 7.7 7.6	7.5 7.5 7.5 7.6 7.6	7.7 7.6 7.6 7.6 7.6
21 22 23 24 25	 7.8	 7.7	 7.8	7.5 7.5 7.4 7.4 7.5	7.4 7.4 7.3 7.3	7.5 7.4 7.4 7.3 7.4	7.7 7.7 7.7 7.6 7.7	7.6 7.6 7.6 7.5 7.6	7.7 7.7 7.6 7.6 7.6	7.7 7.7 7.7 7.7 7.7	7.6 7.6 7.6 7.6 7.5	7.6 7.7 7.7 7.7 7.6
26 27 28 29 30 31	7.8 7.7 7.7 7.7 7.7 7.7	7.7 7.6 7.6 7.6 7.6	7.7 7.6 7.6 7.6 7.6 7.7	7.5 7.6 7.5 7.6 7.6	7.4 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.6 7.6	7.7 7.7 7.8 7.8 7.7	7.6 7.6 7.6 7.7 7.7	7.6 7.6 7.7 7.7 7.7	7.7 7.6 7.6 7.6 7.6 7.6	7.6 7.6 7.4 7.5 7.4 7.5	7.6 7.6 7.5 7.5 7.5
MONTH				7.9	7.3	7.6	7.9	7.4	7.7	8.0	7.4	7.7
	1	FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	7.7 7.8 7.8 7.8 8.0	7.5 7.6 7.7 7.7	7.6 7.7 7.7 7.8 7.9	7.9 7.8 7.8 7.8 7.7	7.7 7.7 7.7 7.6 7.6	7.8 7.7 7.7 7.7 7.7	7.9 7.8 7.9 7.9 7.9	7.7 7.7 7.7 7.7 7.7	7.8 7.7 7.8 7.8 7.8	7.9 7.9 7.9 7.9 7.9	7.8 7.8 7.8 7.8 7.8	7.8 7.8 7.8 7.8 7.8
6 7 8 9 10	8.0 8.0 8.0 7.9 7.9	7.9 7.9 7.8 7.8	7.9 7.9 7.9 7.9 7.8	7.7 7.7 7.7 7.7 7.7	7.6 7.6 7.6 7.5 7.6	7.7 7.6 7.6 7.6 7.6	7.8 	 	 	7.8 7.8 7.8 7.8 7.9	7.7 7.7 7.7 7.7 7.7	7.8 7.8 7.8 7.8 7.8
11 12 13 14 15	7.8 7.7 7.8	7.7 7.7 7.6 7.6 7.6	7.8 7.6 7.7	7.7 7.7 7.6 7.6 7.6	7.5 7.5 7.4 7.5 7.5	7.6 7.6 7.6 7.5 7.6	7.8 7.8 7.9 7.9 8.0	 7.7 7.7 7.7 7.8	7.7 7.8 7.8 7.8	7.9 7.8 8.0 8.0	7.8 7.7 7.7 7.9 7.9	7.8 7.7 7.8 8.0 7.9
16 17 18 19 20	7.8 7.8 7.8 7.9 7.9	7.6 7.7 7.6 7.6 7.7	7.7 7.7 7.7 7.8 7.8	7.6 7.6 7.7 7.7	7.4 7.4 7.5 7.5	7.5 7.5 7.6 7.6 7.6	8.0 8.0 8.0 8.0	7.8 7.8 7.8 7.8 7.8	7.9 7.9 7.9 7.9	8.0 8.0 8.0 8.0	7.9 7.9 7.9 7.9	8.0 8.0 8.0 7.9 8.0
21 22 23 24 25	7.8 7.8 7.7 7.7	7.6 7.7 7.6 7.6 7.6	7.8 7.7 7.7 7.6 7.7	7.8 7.9 7.9 7.8 7.7	7.5 7.5 7.6 7.5 7.5	7.6 7.6 7.7 7.7 7.6	8.0 7.7 7.6 7.9 7.7	7.6 7.3 7.3 7.3 7.6	7.9 7.5 7.5 7.7 7.6	8.0 8.0 8.0 8.0	7.8 7.8 7.7 7.9	8.0 7.9 7.9 8.0 7.9
26 27 28 29 30 31	7.7 7.9 7.9 	7.5 7.5 7.6 	7.6 7.7 7.8 	7.8 7.7 7.7 7.8 7.9	7.6 7.6 7.6 7.6 7.6 7.7	7.7 7.7 7.6 7.6 7.7 7.8	7.7 7.8 7.8 7.8 7.9	7.6 7.6 7.7 7.7	7.7 7.7 7.7 7.8 7.8	7.9 7.9 7.9 8.0 8.0	7.9 7.8 7.7 7.8 7.8 7.8	7.9 7.9 7.8 7.9
MONTH		7.5		7.9	7.7	7.8				8.0	7.8	7.9 7.9

07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO--Continued

pH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		A	UGUST		S	SEPTEMBE	R
1 2 3 4 5	8.0 8.0 7.9 8.0	7.9 7.8 7.8 7.8 8.0	7.9 7.9 7.9 7.9 8.1	7.8 7.9 8.0 7.9 8.0	7.7 7.8 7.9 7.9 7.9	7.8 7.8 7.9 7.9	8.1 8.0 8.1 8.0 7.9	7.9 8.0 8.0 7.8 7.7	8.0 8.0 8.0 8.0	8.1 8.1 8.0 8.0	7.9 7.9 7.9 7.8 7.7	8.0 8.0 8.0 7.9 7.9
6 7 8 9 10	8.2 	7.9 	8.1 	8.0 8.1 8.1 8.1	7.9 7.9 7.9 8.0 8.0	7.9 7.9 8.0 8.0	7.9 8.2 8.2 8.2 8.1	7.8 7.9 8.2 8.1 8.1	7.9 8.1 8.2 8.2	8.1 8.0 8.1 8.2 8.2	7.9 7.9 8.0 8.1	8.0 8.0 8.1 8.2 8.2
11 12 13 14 15		 	 	8.1 8.2 8.1 8.1	8.0 8.0 8.0 8.0	8.1 8.1 8.0 8.0	8.1 8.2 8.1 8.1	8.0 8.1 7.9 8.0 8.0	8.1 8.1 8.0 8.0	8.1 8.2 8.2 8.2 8.3	7.9 8.0 8.1 8.1	8.0 8.1 8.2 8.2 8.2
16 17 18 19 20		 	 	8.1 8.1 8.1 7.9	8.0 7.8 8.0 7.7 7.7	8.0 8.0 8.0 8.0	8.1 8.0 7.9 8.0 8.0	8.0 7.8 7.7 7.9 8.0	8.1 8.0 7.8 8.0 8.0	8.2 8.1 8.1 8.2 8.0	8.0 8.0 7.7 8.0 7.7	8.1 8.0 8.0 8.1 7.8
21 22 23 24 25	 7.8	 7.5	 7.6	7.8 8.0 8.0 8.0	7.7 7.4 7.9 7.9 7.9	7.8 7.8 8.0 8.0	8.0 8.0 8.0 7.9	7.9 7.8 7.8 7.9 7.6	7.9 7.9 7.9 7.9	 	 	
26 27 28 29 30 31	7.6 7.8 7.8 7.8 7.8	7.5 7.5 7.7 7.7 7.7	7.6 7.6 7.7 7.8 7.8	8.1 8.0 8.0 8.2 8.1 7.9	7.7 7.7 7.8 7.8 7.7	8.0 7.9 7.9 8.0 7.9 7.8	7.9 8.1 8.1 8.1 8.0 8.0	7.7 7.7 8.0 8.0 7.9	7.8 8.0 8.1 8.1 8.0 8.0	 		
MONTH				8.2	7.4	7.9	8.2	7.6	8.0			

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 MEAN MIN MEAN DAY MAX MIN MAX MIN MEAN MAX MEAN MAX MIN OCTOBER NOVEMBER DECEMBER JANUARY 21.2 11.3 15.6 12.8 8.3 7.9 3.8 8.1 2.3 5.0 4.9 5.7 7.0 6.7 3.5 2 17.0 11.0 13.6 12.8 1.3 11.3 3 18.4 10.4 11.7 9.9 7.0 13.8 8.4 . 0 4.3 6.6 15.0 14.4 10.0 4.9 2.2 1.2 20.5 3.6 11.1 . 4 5 20.5 11.3 15.4 12.2 8.5 . 2 3.9 2.5 .0 . 9 6 7 11.7 4.9 3.1 19.4 19.6 11.1 2.5 5.7 7.3 5.7 1.1 3.8 2.9 .0 14.6 10.5 1.3 8 14.4 9.6 10.1 11.5 9.0 . 0 1.3 14.0 10 19.0 13.9 12.4 4.5 8.0 10.2 5.1 6.8 2.0 .0 11 19.8 10.2 15.0 12 13 ------11.7 12.9 5.5 5.7 7.8 8.5 9.2 2.4 5.3 4.9 .0 .0 .0 20.1 14 . 0 .0 17.9 7.6 15 ___ ___ 4.8 6.2 4.9 .0 1.5 2.9 .0 .6 6.3 3.9 6.9 10.8 2.7 4.4 .5 .6 .0 .1 .0 .5 2.4 17 ___ ---___ 2.3 18 6.0 .7 ---------1.0 . 0 ___ ___ 20 ___ 13.3 6.6 9.2 2.0 .0 .5 8.0 4.2 21 ---------7.9 8.1 4.1 ___ ___ ___ 10.6 7.4 5.5 5.9 3.0 6.7 7.7 .0 .6 2.7 22 5.0 1.0 2.7 23 ---4.0 . 0 1.0 3.6 24 ------8.9 5.9 4.7 .0 .0 3.0 25 13.6 9.8 3.7 5.9 6.6 . 0 2.6 6.1 .0 2.1 3.9 26 12.6 6.2 8.5 6.3 . 0 8.0 2.1 4.3 2.0 4.2 27 7.8 6.2 7.9 7.9 2.0 4.1 4.2 3.8 7.6 2.0 28 13.1 4.0 1.4 3.8 .0 3.0 13.7 13.7 9.2 3.3 4.5 4.7 2.4 29 6.0 8.5 5.4 8.3 1.9 7.6 4.6 5.7 7.8 2.3 30 6.8 1.5 3.7 9.1 4.6 9.6 2.9 11.1 3.2 6.6 6.7 .0 .0 2.6 MONTH ---14.4 .3 10.2 3.1 11.3 ---

07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO--Continued

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

				TEMPERAT	UKE, WAII	EK (DEG. C)	, WAIEK IEA	AK OCTOE	EK 1990 IC	SEI TEMBEI	X 1991	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2	10.8	4.6 2.9	6.9 5.6	10.9 12.6	1.4 1.5	5.3 6.4	14.1	7.1 4.6	10.4	11.3	7.5 5.6	10.5
3 4	7.5 8.4	1.8 1.0	4.4 3.8	12.0 6.8	2.9	6.8 4.3	16.5 15.2	5.1 7.9	10.3 10.5	16.2 18.2	5.1 7.7	10.5 12.8
5	7.0	.6	3.2	11.2	.0	5.0	10.2	4.0	6.9	18.9	9.5	13.9
6 7	4.3 7.5	1.3	2.4	13.4 14.5	1.5 2.5	6.8 7.8				15.5 15.8	9.7 8.9	12.8 11.9
8 9	8.2 9.1	.0	3.1 3.9	14.1 13.5	2.8 3.8	8.0 8.0				14.0 17.6	7.7 7.9	10.4 12.4
10	7.2	.0	3.3	13.6	3.5	7.8				18.5	8.7	13.0
11 12	9.4	.5	4.2	15.6 14.9	3.6 5.0	8.9 9.2	13.0	.0	5.3	16.8 17.6	8.7 8.4	12.3 12.5
13 14	 9.7	.0	4.3	15.0 9.4	4.9 2.5	8.8 5.0	15.6 16.3	.9 2.9	7.6 9.1	16.8 16.9	8.7 9.4	13.0 13.1
15	11.3	1.3	5.6	11.3	. 4	5.1	18.0	6.1	10.9	19.0	9.9	14.3
16 17	12.2 11.0	2.0	6.5 7.1	14.8 15.6	2.3	8.3	19.8 21.0	7.8 6.5	12.6 13.1	20.5 19.4	10.7 11.2	15.2 15.3
18 19	12.4	3.6 4.8	7.5	16.8 18.0	5.1 4.9	9.9 10.2 11.0	20.4	7.3 8.4	13.3	18.6 12.9	11.2	14.4 11.6
20	10.1	3.0	5.8	18.5	6.8	11.9	21.5	9.1	14.5	18.5	8.4	13.6
21 22	9.0 8.0	1.6	4.7	18.4 18.1		11.7 11.5	18.0		12.1 11.5	20.8 18.8	12.7 12.6	16.0 14.1
23 24	5.2 8.6	.2	4.7 3.9 2.3 3.1	16.4 11.0	6.2	10.9	18.0 17.5 17.3 9.5	8.3	11.8	21.2 18.1	10.9	15.0 14.4
25	9.7	.0	4.0	14.9	1.8	7.5	9.2	.7 2.9	5.4	19.2	10.8 10.9	14.6
26	7.2	. 4	3.5	17.0	4.1	9.9	13.0	4.4	7.9	19.0	10.6	15.4
27 28	7.3 8.2	.3 1.4	3.5 4.2	16.5 15.6	5.1 4.4	10.1	16.8 15.3	5.4 8.9	10.8 12.1	17.4 18.5	9.1 9.8	13.2 14.1
29 30				9.1 16.1	5.0 2.7	6.7 8.8	17.5 16.1	8.2 7.7	12.6 11.9	17.3 20.2	$11.6 \\ 12.4$	14.1 15.9
31				17.6	4.6	10.6				24.6	12.5	18.2
MONTH				18.5	.0	8.3				24.6	5.1	13.5
MONTH		JUNE		18.5	.0 JULY	8.3		 AUGUST			5.1 SEPTEMBE	
1	24.5	JUNE 13.9	18.8	23.3	JULY	18.5	24.9	AUGUST	20.7	24.2	SEPTEMBE	R 19.9
1 2 3	24.5 21.4 24.0	JUNE 13.9 14.6 13.9	18.8 17.2 18.3	23.3 23.2 24.1	JULY 14.0 13.7 13.0	18.5 18.2 18.4	24.9 27.1 26.5	AUGUST 17.9 17.4 16.5	20.7 20.9 21.1	24.2 23.5 21.3	SEPTEMBE 16.3 16.8 17.4	19.9 19.7 18.9
1 2	24.5 21.4	JUNE 13.9 14.6	18.8 17.2	23.3 23.2	JULY 14.0 13.7 13.0	18.5 18.2	24.9 27.1	AUGUST 17.9 17.4	20.7 20.9	24.2 23.5	SEPTEMBE 16.3 16.8	19.9 19.7
1 2 3 4 5	24.5 21.4 24.0 24.1 24.0	JUNE 13.9 14.6 13.9 13.9 15.1	18.8 17.2 18.3 18.5 18.6	23.3 23.2 24.1 23.9 23.5	JULY 14.0 13.7 13.0 14.3 14.1	18.5 18.2 18.4 18.5 18.3	24.9 27.1 26.5 26.0 20.1	AUGUST 17.9 17.4 16.5 17.9 18.1 16.2	20.7 20.9 21.1 21.2 18.7	24.2 23.5 21.3 24.7 24.7	SEPTEMBE 16.3 16.8 17.4 17.0 16.5	19.9 19.7 18.9 20.0 20.1
1 2 3 4 5 6 7 8	24.5 21.4 24.0 24.1 24.0 23.5 15.4 15.4	JUNE 13.9 14.6 13.9 13.9 15.1 11.8 11.9 13.2	18.8 17.2 18.3 18.5 18.6	23.3 23.2 24.1 23.9 23.5 23.0 25.2 23.2	JULY 14.0 13.7 13.0 14.3 14.1 14.3 14.1 14.3	18.5 18.2 18.4 18.5 18.3	24.9 27.1 26.5 26.0 20.1 18.1 22.3 23.7	AUGUST 17.9 17.4 16.5 17.9 18.1 16.2 15.0 14.9	20.7 20.9 21.1 21.2 18.7 16.9 18.1 19.2	24.2 23.5 21.3 24.7 24.7 24.9 24.5 24.3	SEPTEMBE 16.3 16.8 17.4 17.0 16.5 16.1 15.6 15.3	19.9 19.7 18.9 20.0 20.1 19.8 19.5
1 2 3 4 5	24.5 21.4 24.0 24.1 24.0	JUNE 13.9 14.6 13.9 13.9 15.1	18.8 17.2 18.3 18.5 18.6	23.3 23.2 24.1 23.9 23.5	JULY 14.0 13.7 13.0 14.3 14.1 14.3 14.1 14.3 14.1	18.5 18.2 18.4 18.5 18.3	24.9 27.1 26.5 26.0 20.1 18.1 22.3	AUGUST 17.9 17.4 16.5 17.9 18.1 16.2 15.0	20.7 20.9 21.1 21.2 18.7 16.9 18.1	24.2 23.5 21.3 24.7 24.7 24.9 24.5	SEPTEMBE 16.3 16.8 17.4 17.0 16.5	19.9 19.7 18.9 20.0 20.1 19.8 19.5
1 2 3 4 5 6 7 8 9 10	24.5 21.4 24.0 24.1 24.0 23.5 15.4 13.8	JUNE 13.9 14.6 13.9 13.9 15.1 11.8 11.9 13.2 11.3	18.8 17.2 18.3 18.5 18.6 17.4 14.2 14.2 12.4	23.3 23.2 24.1 23.9 23.5 23.0 25.2 23.2 25.3 26.7	JULY 14.0 13.7 13.0 14.3 14.1 14.3 14.1 15.3	18.5 18.2 18.4 18.5 18.3 18.1 18.2 18.1 19.5 20.4	24.9 27.1 26.5 26.0 20.1 18.1 22.3 23.7 23.3 18.3	AUGUST 17.9 17.4 16.5 17.9 18.1 16.2 15.0 14.9 15.6 16.2	20.7 20.9 21.1 21.2 18.7 16.9 18.1 19.2 19.1 17.2	24.2 23.5 21.3 24.7 24.7 24.9 24.5 24.3 21.4 23.8	SEPTEMBE 16.3 16.8 17.4 17.0 16.5 16.1 15.6 15.3 15.6 14.1 14.8	19.9 19.7 18.9 20.0 20.1 19.8 19.5 19.5 17.7 18.4
1 2 3 4 5 6 7 8 9 10	24.5 21.4 24.0 24.1 24.0 23.5 15.4 15.4 13.8 17.5 18.3 18.5	JUNE 13.9 14.6 13.9 13.9 15.1 11.8 11.9 13.2 11.3 11.2 11.3 12.3	18.8 17.2 18.3 18.5 18.6 17.4 14.2 14.2 12.4	23.3 23.2 24.1 23.9 23.5 23.0 25.2 23.2 25.3 26.7	JULY 14.0 13.7 13.0 14.3 14.1 14.3 14.1 15.3 16.4 14.9 15.2	18.5 18.2 18.4 18.5 18.3 18.1 18.2 18.1 19.5 20.4	24.9 27.1 26.5 26.0 20.1 18.1 22.3 23.7 23.3 18.3	AUGUST 17.9 17.4 16.5 17.9 18.1 16.2 15.0 14.9 15.6 16.2 15.7 14.9 14.4	20.7 20.9 21.1 21.2 18.7 16.9 18.1 19.2 19.1 17.2 18.5 19.0 18.7	24.2 23.5 21.3 24.7 24.7 24.5 24.3 21.4 23.8	SEPTEMBE 16.3 16.8 17.4 17.0 16.5 16.1 15.6 15.3 15.6 14.1 14.8 15.2 14.9	19.9 19.7 18.9 20.0 20.1 19.5 19.5 17.7 18.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14	24.5 21.4 24.0 24.1 24.0 23.5 15.4 13.8 	JUNE 13.9 14.6 13.9 13.9 15.1 11.8 11.9 13.2 11.3 11.2 11.3	18.8 17.2 18.3 18.5 18.6 17.4 14.2 14.2 12.4 	23.3 23.2 24.1 23.9 23.5 23.0 25.2 23.2 25.3	JULY 14.0 13.7 13.0 14.3 14.1 14.3 14.1 15.3 16.4 14.9 15.2 15.6	18.5 18.2 18.4 18.5 18.3 18.1 19.5 20.4 19.7 19.8 20.0 21.1	24.9 27.1 26.5 26.0 20.1 18.1 22.3 23.7 23.3 18.3 22.8 23.7 23.3 12.3	AUGUST 17.9 17.4 16.5 17.9 18.1 16.2 15.0 14.9 15.6 16.2 15.7 14.9 14.4	20.7 20.9 21.1 21.2 18.7 16.9 18.1 19.2 19.1 17.2 18.5 19.0 18.7 18.8	24.2 23.5 21.3 24.7 24.7 24.9 24.5 24.3 21.4 23.8 23.9 24.4 24.1 25.1	SEPTEMBE 16.3 16.8 17.4 17.0 16.5 16.1 15.6 15.3 15.6 14.1 14.8 15.2	19.9 19.7 18.9 20.0 20.1 19.8 19.5 17.7 18.4 18.7 19.1 19.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	24.5 21.4 24.0 24.1 24.0 23.5 15.4 13.8 17.5 18.3 18.5 17.5	JUNE 13.9 14.6 13.9 13.9 15.1 11.8 11.9 13.2 11.3 11.2 11.3 12.7 11.9	18.8 17.2 18.3 18.5 18.6 17.4 14.2 14.2 12.4 13.9 14.3 15.1 1 14.8	23.3 23.2 24.1 23.9 23.5 23.0 25.2 23.2 25.3 26.7 25.3 25.5 26.5 27.3 28.7	JULY 14.0 13.7 13.0 14.3 14.1 14.3 14.1 15.3 16.4 14.9 15.6 16.9 16.7	18.5 18.2 18.4 18.5 18.3 18.1 19.5 20.4 19.7 19.8 20.0 21.1 22.2	24.9 27.1 26.5 26.0 20.1 18.1 22.3 23.7 23.3 18.3 22.8 23.7 23.3 12.3 24.6	AUGUST 17.9 17.4 16.5 17.9 18.1 16.2 15.0 14.9 15.6 16.2 15.7 14.9 14.4 15.2 14.6	20.7 20.9 21.1 21.2 18.7 16.9 18.1 19.2 19.1 17.2 18.5 19.0 18.7 18.8 19.2	24.2 23.5 21.3 24.7 24.7 24.9 24.5 24.3 21.4 23.8 23.9 24.4 24.1 25.1 23.4	SEPTEMBE 16.3 16.8 17.4 17.0 16.5 16.1 15.6 14.1 14.8 15.2 14.9 15.8 15.2	19.9 19.7 18.9 20.0 20.1 19.8 19.5 17.7 18.4 18.7 19.1 19.1 19.1 19.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	24.5 21.4 24.0 24.1 24.0 23.5 15.4 15.4 13.8 17.6	JUNE 13.9 14.6 13.9 13.9 15.1 11.8 11.9 13.2 11.3 11.2 11.3 12.3 12.7	18.8 17.2 18.3 18.5 18.6 17.4 14.2 14.2 12.4 13.9 14.3 15.1 14.8	23.3 23.2 24.1 23.9 23.5 23.0 25.2 23.2 25.3 26.7 25.3 25.5 26.5 27.3 28.7	JULY 14.0 13.7 13.0 14.3 14.1 14.3 14.1 15.3 16.4 14.9 15.2 15.6 16.9	18.5 18.2 18.4 18.5 18.3 18.1 18.2 18.1 19.5 20.4 19.7 19.8 20.0 21.1 22.2	24.9 27.1 26.5 26.0 20.1 18.1 22.3 23.7 23.3 18.3 22.8 23.7 23.1 23.2	AUGUST 17.9 17.4 16.5 17.9 18.1 16.2 15.0 14.9 15.6 16.2 15.7 14.9 14.4 15.2 14.6	20.7 20.9 21.1 21.2 18.7 16.9 18.1 19.2 19.1 17.2 18.5 19.0 18.7 18.8	24.2 23.5 21.3 24.7 24.7 24.5 24.3 21.4 23.8 23.9 24.4 24.1 25.1 23.4	SEPTEMBE 16.3 16.8 17.4 17.0 16.5 16.1 15.6 15.3 15.6 14.1 14.8 15.2 14.9 15.8 15.2	19.9 19.7 18.9 20.0 20.1 19.8 19.5 17.7 18.4 18.7 19.1 19.1 19.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	24.5 21.4 24.0 24.1 24.0 23.5 15.4 13.8 17.6 17.6 19.1 21.5 22.0	JUNE 13.9 14.6 13.9 13.9 15.1 11.8 11.9 13.2 11.3 11.2 11.3 12.7 11.9 12.7	18.8 17.2 18.3 18.5 18.6 17.4 14.2 14.2 12.4 13.9 14.3 15.1 14.8 14.4 15.7 16.9 17.9	23.3 23.2 24.1 23.9 23.5 23.0 25.2 23.2 25.3 26.7 25.3 26.5 27.3 28.7 26.9 26.3 27.2 26.9	JULY 14.0 13.7 13.0 14.3 14.1 14.3 14.1 15.3 16.4 14.9 15.2 15.6 16.9 16.7 15.7 15.8 18.0	18.5 18.2 18.4 18.5 18.3 18.1 19.5 20.4 19.7 19.8 20.0 21.1 22.2 20.7 20.2 20.9 20.4	24.9 27.1 26.5 26.0 20.1 18.1 22.3 23.7 23.3 18.3 22.8 23.7 23.3 23.7 23.3 23.7 23.3 23.7 23.3 23.7 23.3 23.7 23.3 23.7 23.6 24.6 26.6 26.6 26.6 26.6 26.6 26.6 26	AUGUST 17.9 17.4 16.5 17.9 18.1 16.2 15.0 14.9 15.6 16.2 15.7 14.4 15.2 14.6 15.5 15.9 15.0	20.7 20.9 21.1 21.2 18.7 16.9 18.1 19.2 19.1 17.2 18.5 19.0 18.7 18.7 19.0 18.7	24.2 23.5 21.3 24.7 24.7 24.5 24.3 21.4 23.8 23.9 24.4 24.1 25.1 23.4 21.7 22.9	SEPTEMBE 16.3 16.8 17.4 17.0 16.5 16.1 15.6 15.3 15.6 14.1 14.8 15.2 16.0 14.4 14.3 14.7	19.9 19.7 18.9 20.0 20.1 19.8 19.5 17.7 18.4 18.7 19.1 19.1 19.9 19.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	24.5 21.4 24.0 24.1 24.0 23.5 15.4 15.4 13.8 17.6 17.6 19.1 11.5 22.0 22.7	JUNE 13.9 14.6 13.9 13.9 15.1 11.8 11.9 13.2 11.3 11.2 11.3 12.3 12.7 11.9 13.1 14.4 14.3	18.8 17.2 18.3 18.5 18.6 17.4 14.2 12.4 13.9 14.3 15.1 14.8 14.4 15.7 16.9 17.9 18.4	23.3 23.2 24.1 23.9 23.5 23.0 25.2 23.2 25.3 26.7 25.3 25.5 27.3 28.7	JULY 14.0 13.7 13.0 14.3 14.1 14.3 14.1 15.3 16.4 14.9 15.2 15.6 16.9 16.7 15.8 18.0 16.8	18.5 18.2 18.4 18.5 18.3 18.1 18.2 18.1 19.5 20.4 19.7 19.8 20.0 21.1 22.2 20.7 20.9 20.4 20.6	24.9 27.1 26.5 26.0 20.1 18.1 22.3 23.7 23.3 18.3 22.8 23.7 23.1 23.2 24.6 24.4 23.8 22.1 24.7 24.6	AUGUST 17.9 17.4 16.5 17.9 18.1 16.2 15.0 14.9 15.6 16.2 15.7 14.9 14.4 15.2 14.6	20.7 20.9 21.1 21.2 18.7 16.9 18.1 19.2 19.1 17.2 18.5 19.0 18.7 18.8 19.2	24.2 23.5 21.3 24.7 24.7 24.5 24.3 21.4 23.8 23.9 24.4 24.1 25.1 23.4 21.4 21.4 22.9 15.8	SEPTEMBE 16.3 16.8 17.4 17.0 16.5 16.1 15.6 15.3 15.6 14.1 14.8 15.2 14.9 15.8 15.2 16.0 14.4 14.3 14.7 11.9	19.9 19.7 18.9 20.0 20.1 19.8 19.5 17.7 18.4 18.7 19.1 19.1 19.2 17.6 17.6 18.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	24.5 21.4 24.0 24.1 24.0 23.5 15.4 13.8 17.6 17.6 19.1 21.5 22.0	JUNE 13.9 14.6 13.9 13.9 15.1 11.8 11.9 13.2 11.3 11.2 11.3 12.7 11.9 12.7	18.8 17.2 18.3 18.5 18.6 17.4 14.2 14.2 12.4 13.9 14.3 15.1 14.8 14.4 15.7 16.9 17.9	23.3 23.2 24.1 23.9 23.5 23.0 25.2 23.2 25.3 26.7 25.3 26.5 27.3 28.7 26.9 27.1 27.6	JULY 14.0 13.7 13.0 14.3 14.1 14.3 14.1 15.3 16.4 14.9 15.2 15.6 16.9 16.7 15.7 15.8 18.0	18.5 18.2 18.4 18.5 18.3 18.1 19.5 20.4 19.7 19.8 20.0 21.1 22.2 20.7 20.2 20.9 20.4	24.9 27.1 26.5 26.0 20.1 18.1 22.3 23.7 23.3 18.3 22.8 23.7 23.2 24.6 24.4 23.8 22.1 24.6	AUGUST 17.9 17.4 16.5 17.9 18.1 16.2 15.0 14.9 15.6 16.2 15.7 14.4 15.2 14.6 15.5 15.9 15.0	20.7 20.9 21.1 21.2 18.7 16.9 18.1 19.2 19.1 17.2 18.5 19.0 18.7 18.8 19.2	24.2 23.5 21.3 24.7 24.7 24.5 24.3 21.4 23.8 23.9 24.4 24.1 25.1 23.4 21.7 22.9	SEPTEMBE 16.3 16.8 17.4 17.0 16.5 16.1 15.6 15.3 15.6 14.1 14.8 15.2 16.0 14.4 14.3 14.7	19.9 19.7 18.9 20.0 20.1 19.8 19.5 17.7 18.4 18.7 19.1 19.1 19.9 19.2 17.6 17.6 17.6 17.6 17.6 18.2 13.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	24.5 21.4 24.0 24.1 24.0 23.5 15.4 13.8 17.6 19.1 21.5 22.0 22.7 22.7 23.4 23.0 22.9	JUNE 13.9 14.6 13.9 13.9 15.1 11.8 11.9 13.2 11.3 12.7 11.9 12.3 14.4 14.3 14.8 15.3 15.1	18.8 17.2 18.3 18.5 18.6 17.4 14.2 14.2 12.4 13.9 14.3 15.1 14.8 14.4 15.7 17.9 18.4 18.5 19.0 19.0 19.0 18.3	23.3 23.2 24.1 23.9 23.5 23.0 25.2 23.2 25.3 26.7 25.3 26.5 27.3 28.7 26.9 27.1 27.6 27.9 29.0 28.9	JULY 14.0 13.7 13.0 14.3 14.1 14.3 14.1 15.3 16.4 14.9 15.2 15.6 16.9 16.7 15.8 18.0 16.8 17.6 17.6	18.5 18.2 18.4 18.5 18.3 18.1 19.5 20.4 19.7 19.8 20.0 21.1 22.2 20.7 20.2 20.2 20.4 20.6	24.9 27.1 26.5 26.0 20.1 18.1 22.3 23.7 23.3 18.3 22.8 23.7 23.1 23.2 24.6 24.4 23.8 22.1 24.7 24.6 25.6 24.1 25.5 25.7	AUGUST 17.9 17.4 16.5 17.9 18.1 16.2 15.0 14.9 15.6 16.2 15.7 14.4 15.2 14.6 15.5 15.9 15.0 14.9	20.7 20.9 21.1 21.2 18.7 16.9 18.1 19.2 19.1 17.2 18.5 19.0 18.7 18.8 19.2 19.6 18.7 18.9	24.2 23.5 21.3 24.7 24.7 24.9 24.5 24.3 21.4 23.8 23.9 24.4 24.1 25.1 23.4 21.7 22.9 15.8 14.3 19.9 20.9	SEPTEMBE 16.3 16.8 17.4 17.0 16.5 16.1 15.6 15.3 15.6 14.1 14.8 15.2 16.0 14.4 14.3 14.7 11.9 11.5 13.3 12.8 12.7	19.9 19.7 18.9 20.0 20.1 19.8 19.5 17.7 18.4 18.7 19.1 19.1 19.1 19.2 18.2 17.6 17.6 18.2 13.4 12.8 15.5 14.1 15.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	24.5 21.4 24.0 24.1 24.0 23.5 15.4 13.8 17.6 19.6 19.6 19.1 22.7 22.7 22.7 23.4 23.0 22.9 22.3	JUNE 13.9 14.6 13.9 13.9 15.1 11.8 11.9 13.2 11.3 12.7 11.23 12.3 12.7 11.9 13.1 14.4 14.3 14.8 15.3 15.2 15.1 14.6	18.8 17.2 18.3 18.5 18.6 17.4 14.2 12.4 13.9 14.3 15.1 14.8 14.4 15.7 16.9 17.9 18.4 18.5 19.0 19.0 18.3 18.0	23.3 23.2 24.1 23.9 23.5 23.0 25.2 23.2 25.3 26.7 25.5 26.5 27.3 28.7 26.9 26.9 27.1 27.6 27.9 29.0 28.9 27.7	JULY 14.0 13.7 13.0 14.3 14.1 14.3 14.1 15.3 16.4 14.9 15.2 15.6 16.9 16.7 15.8 18.0 16.8 17.6 17.6 17.6 17.4	18.5 18.2 18.4 18.5 18.3 18.1 19.5 20.4 19.7 19.8 20.0 21.1 22.2 20.7 20.2 20.9 20.4 20.6 20.8 21.9 22.2 22.5 21.4	24.9 27.1 26.5 26.0 20.1 18.1 22.3 23.7 23.3 18.3 22.8 23.7 23.1 23.2 24.6 24.4 23.8 22.1 24.7 24.6	AUGUST 17.9 17.4 16.5 17.9 18.1 16.2 15.0 14.9 15.6 16.2 15.7 14.4 15.2 14.6 15.5 15.9 15.0 14.9 15.3 16.4 17.6	20.7 20.9 21.1 21.2 18.7 16.9 18.1 19.2 19.1 17.2 18.5 19.0 18.7 18.8 19.2 19.4 19.6 18.7 18.9	24.2 23.5 21.3 24.7 24.7 24.5 24.3 21.4 23.8 23.9 24.4 24.1 25.1 23.4 21.4 21.7 22.4 22.9 15.8 14.3 19.9 15.9 20.9 21.6	SEPTEMBE 16.3 16.8 17.4 17.0 16.5 16.1 15.6 15.3 15.6 14.1 14.8 15.2 14.9 15.8 15.2 14.9 15.8 15.2 16.0 14.4 14.3 14.7 11.9 11.5 13.3 12.8 12.7 11.7	19.9 19.7 18.9 20.0 20.1 19.8 19.5 17.7 18.4 18.7 19.1 19.1 19.2 17.6 17.6 18.2 17.6 18.2 17.6 18.2 17.6 18.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	24.5 21.4 24.0 24.1 24.0 23.5 15.4 13.8 17.6 17.6 19.1 21.5 22.0 22.7 22.7 23.4 23.9 22.3 22.5 22.4	JUNE 13.9 14.6 13.9 13.9 15.1 11.8 11.9 13.2 11.3 12.7 11.2 11.3 12.3 13.1 14.4 14.3 14.8 15.3 15.1 14.6 14.2 13.7	18.8 17.2 18.3 18.5 18.6 17.4 14.2 14.2 12.4 13.9 14.3 15.7 16.9 17.9 18.4 18.5 19.0 19.0 19.0 18.3 18.0	23.3 23.2 24.1 23.9 23.5 23.0 25.2 23.2 25.3 26.7 25.5 26.5 27.3 28.7 26.9 27.1 27.6 27.9 29.0 28.9 27.7	JULY 14.0 13.7 13.0 14.3 14.1 14.3 14.1 15.3 16.4 14.9 15.6 16.9 16.7 15.7 15.8 18.0 16.8 17.6 17.6 17.4 17.8 18.1	18.5 18.2 18.4 18.5 18.3 18.1 19.5 20.4 19.7 19.8 20.0 21.1 22.2 20.7 20.2 20.9 20.4 20.6 21.9 22.1 21.9 22.1 21.9 21.1 22.2	24.9 27.1 26.5 26.0 20.1 18.1 22.3 3.7 23.7 23.3 18.3 22.8 23.7 23.2 24.6 24.4 23.8 22.1 24.7 24.6 25.6 24.1 25.5 25.7 26.1	AUGUST 17.9 17.4 16.5 17.9 18.1 16.2 15.0 14.9 15.6 16.2 15.7 14.9 15.2 14.6 15.5 15.9 15.0 14.9 15.3 15.8 16.1 17.6	20.7 20.9 21.1 21.2 18.7 16.9 18.1 19.2 19.1 17.2 18.5 19.0 18.7 18.8 19.2 19.4 19.6 18.7 18.9 19.6 20.6 20.8 20.9	24.2 23.5 21.3 24.7 24.7 24.9 24.5 24.4 23.8 23.9 24.4 24.1 25.1 23.4 21.7 22.4 21.7 22.9 15.8 14.3 19.9 15.9 20.9 21.6	SEPTEMBE 16.3 16.8 17.4 17.0 16.5 16.1 15.6 14.1 14.8 15.2 14.9 15.8 15.2 16.0 14.4 14.3 14.7 11.9 11.5 13.3 12.7 11.7	19.9 19.7 18.9 20.0 20.1 19.8 19.5 17.7 18.4 18.7 19.1 19.1 19.2 17.6 17.6 17.6 18.2 13.4 12.8 15.5 14.1 15.5 14.1 15.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	24.5 21.4 24.0 24.1 24.0 23.5 15.4 13.8 17.6 17.6 19.1 22.0 22.7 22.7 23.4 23.9 22.3 22.5 22.4 23.5	JUNE 13.9 14.6 13.9 13.9 15.1 11.8 11.9 13.2 11.3 12.7 11.2 11.3 12.3 12.3 12.3 14.4 14.3 14.8 15.3 15.1 14.6 14.2 13.7 13.8 14.5	18.8 17.2 18.3 18.5 18.6 17.4 14.2 12.4 13.9 14.8 14.4 15.7 17.9 18.4 18.5 19.0 19.0 19.0 18.3 18.0	23.3 23.2 24.1 23.9 23.5 23.0 25.2 23.2 25.3 26.7 25.3 25.5 27.3 28.7 26.9 27.1 27.6 27.9 29.0 28.9 27.7 27.8 28.4 23.5 25.5	JULY 14.0 13.7 13.0 14.3 14.1 14.3 14.1 15.3 16.4 17.6 17.6 17.6 17.6 17.6 17.9 18.1	18.5 18.2 18.4 18.5 18.3 18.1 19.5 20.4 19.7 19.8 20.0 21.1 22.2 20.7 20.2 20.2 20.4 20.6 20.8 21.9 22.5 21.4 21.6 21.6 21.6 20.0 20.0 21.6	24.9 27.1 26.5 26.0 20.1 18.1 22.3 23.7 23.3 18.3 22.8 23.7 23.1 23.2 24.6 24.4 23.8 22.1 24.7 24.6 25.6 24.1 25.7 26.1	AUGUST 17.9 17.4 16.5 17.9 18.1 16.2 15.6 16.2 15.7 14.9 15.6 15.5 15.9 15.0 14.9 15.3 15.8 16.1 17.6 17.8 17.2 17.6 17.7	20.7 20.9 21.1 21.2 18.7 16.9 18.1 19.2 19.1 17.2 18.5 19.0 18.7 18.8 19.2 19.6 18.7 18.9 19.6 19.6 20.8 20.9	24.2 23.5 21.3 24.7 24.7 24.5 24.3 21.4 23.8 23.9 24.4 24.1 25.1 23.4 21.4 22.9 15.8 14.3 19.9 20.9 21.6 20.6 22.7 20.7 22.1	SEPTEMBE 16.3 16.8 17.4 17.0 16.5 16.1 15.6 15.3 15.6 14.1 14.8 15.2 14.9 15.8 15.2 14.9 15.8 15.2 16.0 14.4 14.3 14.7 11.9 11.5 13.3 12.7 11.7	19.9 19.7 18.9 20.0 20.1 19.8 19.5 17.7 18.4 18.7 19.1 19.1 19.1 19.2 18.2 17.6 18.2 17.6 18.2 17.6 18.2 17.6 18.2 17.6 18.2 17.6 18.2 17.6 18.2 17.6 18.2 17.6 18.2 17.6 18.2 17.6 18.2 18.2 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	24.5 21.4 24.0 24.1 24.0 23.5 15.4 15.4 13.8 17.6 17.6 19.1 21.5 22.0 22.7 22.7 22.7 23.4 22.9 22.3	JUNE 13.9 14.6 13.9 13.9 15.1 11.8 11.9 13.2 11.3 12.7 11.2 11.3 12.3 12.3 14.4 14.3 14.8 15.3 15.2 15.1 14.6 14.2 13.7 13.8	18.8 17.2 18.3 18.5 18.6 17.4 14.2 12.4 13.9 14.3 15.1 14.8 14.4 15.7 16.9 17.9 18.4 18.5 19.0 19.0 19.0 18.3 18.0	23.3 23.2 24.1 23.9 23.5 23.0 25.2 23.2 25.3 26.7 25.5 26.5 27.3 28.7 26.9 27.1 27.6 27.9 29.0 28.9 27.7	JULY 14.0 13.7 13.0 14.3 14.1 14.3 14.1 15.3 16.4 14.9 15.2 15.6 16.9 16.7 15.7 15.8 18.0 16.8 17.6 17.6 17.6 17.6 17.6 17.8 18.1 17.9	18.5 18.2 18.4 18.5 18.3 18.1 19.5 20.4 19.7 19.8 20.0 21.1 22.2 20.7 20.2 20.9 20.4 20.6 20.8 21.9 22.2 22.5 21.4 21.6 21.6 20.0	24.9 27.1 26.5 26.0 20.1 18.1 22.3 23.7 23.3 18.3 22.8 23.7 23.1 23.2 24.6 24.4 23.8 22.1 24.7 24.6 25.6 24.1 25.5 25.7 26.1	AUGUST 17.9 17.4 16.5 17.9 18.1 16.2 15.0 14.9 15.6 16.2 15.5 15.9 15.0 14.9 15.3 15.8 16.1 16.4 17.6	20.7 20.9 21.1 21.2 18.7 16.9 18.1 19.2 19.1 17.2 18.5 19.0 18.7 18.8 19.2 19.4 19.6 18.7 18.9 19.6 20.6 20.8 20.9	24.2 23.5 21.3 24.7 24.7 24.5 24.3 21.4 23.8 23.9 24.4 24.1 25.1 23.4 21.4 21.7 22.4 22.9 15.8 14.3 19.9 15.9 20.9 21.6	SEPTEMBE 16.3 16.8 17.4 17.0 16.5 16.1 15.3 15.6 14.1 14.8 15.2 14.9 15.8 15.2 14.9 15.8 15.2 16.0 14.4 14.3 14.7 11.9 11.5 13.3 12.8 12.7 11.7	19.9 19.7 18.9 20.0 20.1 19.8 19.5 17.7 18.4 18.7 19.1 19.1 19.2 17.6 17.6 18.2 17.6 18.2 17.6 18.2 17.6 18.2 17.6 18.2 17.6 18.2 17.6 18.2 17.6 18.2 17.6 18.2 17.6 18.2 18.2 19.5 19.5 19.5

07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DI	ECEMBER			JANUARY	
1 2 3 4 5	8.0 8.2 8.3 8.4 8.3	6.2 6.9 7.0 6.8 6.4	7.1 7.5 7.7 7.5 7.3	9.7 9.6 9.0 8.2 8.6	7.4 7.3 7.1 6.6 6.7	8.6 8.4 8.0 7.5 7.7	10.1 10.3 10.1	7.4 7.1 7.7	9.1 8.7 9.0	10.1 11.7 11.9	7.9 8.9 9.3	9.2 10.5 11.0
6 7 8 9 10	8.1 8.0 8.1 8.6 8.7	6.3 6.4 6.7 6.8 6.7	7.2 7.2 7.4 7.7	8.7 10.8 11.7 10.8 10.5	7.4 8.6 8.8 8.2 7.9	8.0 9.4 10.3 9.5 9.2	 		 	11.9 11.2 11.4 10.9 11.5	9.9 8.8 7.5 7.5	10.8 10.2 9.5 9.4 10.3
11 12 13 14 15	8.6 	6.7 	7.6 	10.4 10.1 9.9 9.8 10.2	8.0 8.1 7.7 9.2 9.0	9.2 9.2 8.9 9.5 9.5	 	 	 	10.9 10.2 9.5 9.8 10.2	7.2 7.0 7.5 8.0 8.8	9.2 8.6 8.5 8.9 9.5
16 17 18 19 20	 	 	 	10.9 11.3 11.3 10.2 9.6	9.3 9.5 8.3 7.8 7.7	10.1 10.5 9.8 9.0 8.8	 	 	 	10.2 9.7 9.9 10.1 9.7	8.8 8.5 7.6 7.8 7.5	9.5 9.1 8.8 9.0 8.6
21 22 23 24 25	 	 	 	10.3 10.4 11.6 11.0 11.7	8.4 8.3 9.4 9.2 8.7	9.4 9.5 10.5 10.1 10.5	 	 	 	9.0 9.8 9.5 9.2 9.1	7.0 7.5 7.2 6.7 6.9	8.0 8.6 8.4 8.0
26 27 28 29 30 31	10.0 11.0 10.0 9.3 9.5 9.7	8.1 9.6 7.3 7.0 7.2 8.5	9.1 10.1 8.6 8.3 8.4 9.1	 		 	9.9 9.1 	6.2 6.4 	8.0 7.8 	8.6 9.3 7.8 7.5 8.1 9.2	6.5 6.6 6.6 6.6 6.9	7.6 8.0 7.3 7.1 7.4 8.0
MONTH												
	:	FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	9.9 9.9 9.9 11.1 11.8	7.7 7.4 7.1 8.1 8.1	8.8 8.6 8.6 9.6 10.2	10.8 10.5 9.7 10.7 11.4	7.1 6.5 6.6 8.5 7.2	9.0 8.4 8.2 9.4 9.2	7.9 9.0 8.1 8.0 9.8	5.7 6.7 5.8 5.7 6.8	6.8 7.8 7.0 6.9 8.2	10.0 10.9 11.4 10.3 9.6	7.9 8.7 7.4 7.1 6.9	8.8 9.7 9.4 8.6 8.2
6 7 8 9 10	11.4 11.8 11.1 10.6 10.4	9.7 8.1 7.2 6.3 6.9	10.8 10.3 9.2 8.6 8.7	11.1 10.2 10.2 9.8 9.7	6.4 6.3 6.4 6.6	8.6 8.1 8.0 8.1 8.2	 	 	 	9.5 9.9 10.5 10.5 9.9	7.7 7.7 8.2 7.3 7.0	8.5 8.9 9.5 8.8 8.6
11 12 13 14 15	10.1 10.8 9.1 10.3 10.3	6.2 7.0 7.0 6.8 6.9	8.2 8.9 8.1 8.5 8.5	9.9 9.1 9.2 11.0 12.2	6.0 6.3 6.1 8.1 7.4	7.8 7.6 7.7 9.5 9.7	12.0 12.0 10.8 9.8	8.0 7.6 7.4 7.2	10.0 9.5 8.9 8.4	9.9 10.0 9.7 9.3 9.1	7.5 7.1 7.8 7.8 7.4	8.7 8.6 8.5 8.4 8.2
16 17 18 19 20	10.3 9.6 10.0 9.8 9.5	7.2 7.1 7.6 7.7 7.4	8.8 8.4 8.8 8.8	10.9 8.5 9.5 9.5 8.2	6.3 6.3 5.9 5.8 5.7	8.4 7.5 7.6 7.6 7.0	9.3 9.6 9.1 8.6 8.5	6.9 6.7 6.2 6.1 6.2	8.1 8.0 7.5 7.2 7.2	9.0 8.8 8.7 8.7 9.2	7.3 7.3 7.5 8.2 7.2	8.0 8.0 8.1 8.4 8.1
21 22 23 24 25	9.9 11.6 11.3 11.5	7.5 8.1 9.5 7.6 7.1	8.7 9.7 10.5 9.9 9.4	7.9 8.4 7.3 8.5 10.2	5.8 6.6 5.8 5.8 6.0	6.8 7.5 6.6 7.2 8.1	8.3 8.9 8.7 	6.8 6.1 6.6 	7.6 7.6 7.7 	8.2 8.3 8.1 8.4 8.4	6.9 7.2 6.4 7.1 6.8	7.6 7.8 7.4 7.7 7.6
26 27 28 29 30 31	11.4 11.2 10.4 	8.4 8.1 7.8 	9.7 9.6 9.2 	8.4 7.3 7.2 7.6 9.2 7.6	6.0 5.7 5.4 5.8 6.7 5.6	7.2 6.5 6.3 6.7 8.0 6.6	 		 	8.6 9.1 9.1 8.2 7.7 7.8	6.9 7.6 7.2 7.2 6.6 6.0	7.6 8.3 8.1 7.7 7.2 6.9
MONTH	11.8	6.2	9.1	12.2	5.4	7.8				11.4	6.0	8.3

07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		A	UGUST		S	SEPTEMBE	R
1 2 3 4 5	7.5 7.2 7.4 7.4 7.3	6.0 6.3 5.9 6.3	6.7 6.8 6.7 6.8 6.8	6.9 7.6 7.7 7.3 7.4	5.7 6.2 6.0 5.8 6.1	6.4 6.9 6.8 6.6 6.8	6.9 7.0 6.7 6.9	5.7 5.8 5.9 5.4	6.5 6.4 6.4 6.5	7.5 7.3 7.3 7.3 7.1	6.4 6.5 6.7 6.0 6.1	6.9 6.9 7.0 6.8 6.6
6 7 8 9 10	8.1 8.1 7.5 7.9	6.4 7.1 7.1 7.0	7.0 7.3 7.3 7.6	8.0 8.2 8.4 8.2 8.1	6.7 6.4 7.1 6.7 6.4	7.4 7.6 7.7 7.4 7.3	7.0 7.3 7.4 7.3 7.3	6.7 6.4 6.1 6.3 6.2	6.9 6.9 6.8 6.8 7.0	7.2 7.4 7.2 7.5	6.1 6.1 6.0 6.4	6.7 6.7 6.7 7.0
11 12 13 14 15		 	 	8.1 8.5 8.3 8.2 8.1	6.5 6.5 6.1 6.4 6.1	7.5 7.7 7.6 7.4 7.2	7.4 7.4 7.7 7.3 7.3	6.3 6.2 6.3 6.0	6.8 6.8 6.9 6.7	7.8 7.4 7.3	6.1 6.0 5.8	7.0 6.8 6.6
16 17 18 19 20		 	 	7.9 6.8 6.9 6.2 6.0	6.0 5.3 5.4 4.9 4.9	6.8 6.0 6.2 5.7	7.1 7.2 7.4 7.4	5.1 6.0 6.3 5.7 5.2	6.4 6.6 6.9 6.6	7.4 8.1 8.1 7.7 8.0	6.0 6.8 6.5 6.5	6.9 7.4 7.2 7.1 7.8
21 22 23 24 25	 	 	 	6.2 6.3 7.0 6.9	5.5 5.8 5.6 5.6 5.6	5.8 6.0 6.3 6.2 6.4	 	 		8.4 8.6	7.6 6.8	8.0 7.6
26 27 28 29 30 31	7.1 7.0 7.1 6.9 6.7	5.9 5.8 5.6 5.4	6.6 6.5 6.4 6.3 6.1	6.8 6.8 7.2 7.0 7.1	5.7 5.5 5.7 5.6 5.7	6.3 6.4 6.3 6.4	7.1 7.3 7.2 7.3	6.2 6.4 6.7 6.4	 6.7 6.8 7.0	8.3 8.2 8.3 7.6 7.7	6.7 6.3 6.1 6.0 6.5	7.5 7.3 7.2 6.8 7.1
MONTH												

07106300 FOUNTAIN CREEK NEAR PINON, CO

LOCATION.--Lat 38°26′23", long 104°35′35", in NW1/4SE1/4 sec.31, T.18 S., R.64 W., Pueblo County, Hydrologic Unit 11020003, on left bank (revised), 0.5 mi below Pinon Road bridge, 0.9 mi northeast of Pinon, and 2.7 mi upstream from Steele Hollow Creek. DRAINAGE AREA.--849 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD .-- April 1973 to current year. Low-flow records may not be equivalent prior to October 1995, as a result of varying underflow (diversion system) entering between the sites.

REVISED RECORDS.--WDR CO-80-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,990 ft above sea level, from topographic map. Apr. 1973 to Apr. 22, 1976, non-recording gage, and Apr. 23, 1976 to Sept. 30, 1995, water-stage recorder, at site 0.5 mi upstream at different

REMARKS.--Records fair except those above 3,000 ft³/s, which are poor. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions for municipal use, diversions upstream from station for municipal use and for irrigation of about 10,000 acres, and return flow from irrigated areas.

101 1	irigation	or about 10,				_						
			DISCH	ARGE, CUB	IC FEET PER S		WATER YEA MEAN VAL		1996 TO S	EPTEMBER 19	97	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	187 182 189 190 226	196 193 194 193 183	161 168 153 145 144	103 102 105 100	143 141 141 133 131	140 164 151 151 150	122 122 132 127 119	343 331 305 290 278	206 210 182 171 167	213 209 202 179 164	350 272 256 227 1310	260 234 222 231 330
6 7 8 9 10	175 171 169 159 154	182 174 177 180 183	157 144 135 138 123	96 96 99 106 e105	130 127 126 132 131	141 142 141 141 141	113 107 103 101 99	307 326 306 316 302	267 1870 921 1100 e5600	156 159 149 142 125	1500 546 351 314 362	233 295 220 207 203
11 12 13 14 15	145 131 130 128 132	191 193 182 179 182	119 99 91 90 88	e105 e103 101 126 135	126 132 131 129 131	138 137 142 137 140	90 94 96 92 82	280 327 275 254 251	e3000 e2500 e2200 e4000 e1800	108 106 81 83 89	492 315 401 269 241	173 163 150 157 163
16 17 18 19 20	105 104 123 139 149	176 177 180 181 171	89 89 84 105 105	125 113 116 128 133	137 133 136 140 135	143 146 143 140 137	61 57 50 42 45	247 234 221 266 231	e1300 819 621 703 520	87 81 79 77 285	231 235 441 238 209	142 148 154 144 169
21 22 23 24 25	195 175 166 153 154	167 166 174 203 181	101 94 92 90 94	131 119 109 110 106	140 148 154 153 147	135 131 131 136 178	45 118 82 672 560	223 316 494 269 261	472 468 467 688 429	121 83 59 51 47	217 198 192 187 215	210 201 231 198 168
26 27 28 29 30 31	159 207 245 206 196 196	177 172 174 177 170	96 95 105 102 104 104	109 114 128 141 138 143	150 153 148 	162 152 144 136 139 133	578 592 509 373 339	272 249 238 234 321 219	424 393 367 e314 e300	57 142 199 315 1310 430	719 270 246 238 265 253	162 152 161 154 143
TOTAL MEAN MAX MIN AC-FT	5140 166 245 104 10200	5428 181 203 166 10770	3504 113 168 84 6950	3545 114 143 96 7030	3858 138 154 126 7650	4442 143 178 131 8810	5722 191 672 42 11350	8786 283 494 219 17430	32479 1083 5600 167 64420	5588 180 1310 47 11080	11560 373 1500 187 22930	5778 193 330 142 11460
STATIS'		MONTHLY MEAN										
MEAN MAX (WY) MIN (WY)	72.7 457 1985 .81 1976	88.9 289 1985 5.77 1979	82.9 155 1985 30.0 1977	92.7 174 1996 19.0 1979	99.0 149 1996 35.3 1978	105 207 1992 20.0 1978	110 299 1985 3.36 1975	251 1349 1980 .96 1975	189 1083 1997 8.39 1978	98.1 365 1985 4.34 1976	130 385 1982 3.87 1974	68.4 205 1982 .000 1975
SUMMAR	Y STATIST	rics	FOR	1996 CALE	NDAR YEAR	F	FOR 1997 W	ATER YEAR		WATER YE	ARS 1973	- 1997
LOWEST HIGHES' LOWEST	MEAN F ANNUAL ANNUAL N F DAILY N	MEAN MEAN		58627 160 1790 a 25 28	Jul 10 May 17 May 15		95830 263 ^e 5600 42 55	Jun 10 Apr 19 Apr 15		114 283 29.4 e ₅₆₀₀ b.00	Jul	1995 1978 10 1997 6 1973 18 1973
INSTAN' INSTAN' ANNUAL 10 PERO 50 PERO 90 PERO	TANEOUS I	PEAK FLOW PEAK STAGE (AC-FT) EEDS EEDS		116300 219 148 63	ray 13		10100 f 7.46 190100 381 159 96	Jun 10		d ₁₀₂₀₀ 97.05 82940 220 77 2.7	May	8 1980 8 1980

e-Estimated.

e-bslimated. a-Also occurred May 19-20. b-No flow at times during most years prior to 1985. c-From rating curve extended above 9600 ft³/s. d-From rating curve extended above 7300 ft³/s. f-From floodmark.

g-Site and datum then in use. Maximum gage height, 7.46 ft, Jun 10, 1997, present site and datum.

07106300 FOUNTAIN CREEK NEAR PINON, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1976 to December 1983, December 1990 to current year.

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

	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
	EC 13	1115	81	1120	8.3	5.5	10.1	3.7	K22	K18	83	27
	AR 21	1100	115	1020	8.2	12.5	7.8	4.8		K10	76	23
	AY 30	1215	292	718	8.1	18.0	7.7	4.5	87	K60	56	18
S	EP 19	1130	115	1010	8.3	19.0	7.1	e0.7	130	K130	82	26
ות	DATE EC	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
	13	173	290	52	1.9	44	0.03	5.3	0.03	0.5	0.62	5
	AR 21	152	260	54	1.9	89	0.01	7.0	<0.015	0.7	0.34	4
	AY 30	116	180	27	1.7	251	<0.01	0.842	<0.015	0.5	0.193	
S	EP 19	168	300	43	2.0	153	<0.01	3.04	<0.015	0.55	0.225	6
		DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR) (01032)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	
		DEC 13	-1	-1	1	<1	<1	4	2.0	1800	4.0	
		MAR	<1	<1								
		21 MAY	<1	<1	2	<1	<1	13	7.1	2100	6.8	
		30 SEP	<1	<1	6	<1	<1	15	1.1	12000	3.8	
		19	<1	<1	2	<1	<1	5	2.0	3400	3.1	
		DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	
		DEC 13	4	<1	90	4.0	5	2.0	5	30	14	
		MAR 21	4	<1	110	2.5	4	2.8	4	30	28	
		MAY 30	27	<1	440	<1	12	1.4		90	3.1	
		SEP 19	4	<1	140	4.0	6	3.5	6	30	4.3	

e-Estimated. K-Based on non-ideal colony count.

07106300 FOUNTAIN CREEK NEAR PINON, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DIS- CHARGE, SPE- INST. CIFIC CUBIC CON- TEMPER- FEET DUCT- ATURE DATE TIME PER ANCE WATER SECOND (US/CM) (DEG C) (00061) (00095) (00010)
OCT 1996					MAY 1997
01	1200	194	950	17.5	09 1230 310 734 15.5
NOV					JUN
21	1100	176	1030	9.0	04 1120 179 843 21.0
DEC					17 1415 722 668 20.5
05	0900	165	1120	5.5	23 1500 446 870 21.5
20	1530	107	1060	1.5	25 1600 361 730 24.0
JAN 1997					JUL
21	1355	136	1180	8.0	08 1345 151 982 26.0
FEB					AUG
10	1335	145	1070	6.0	13 1535 393 630 25.5
MAR					27 1310 271 810 26.5
04	1235	164	1010	6.5	SEP
APR					10 1620 180 915 26.5
08	1200	113	1090	6.5	
21	1215	46	1190	18.5	
22	1015	193	955	8.5	
28	1405	403	800	15.5	

07106500 FOUNTAIN CREEK AT PUEBLO, CO

LOCATION.--Lat 38°17'16", long 104°36'02", in SE1/4SW1/4 sec.19, T.20 S., R.64 W., Pueblo County, Hydrologic Unit 11020003, on left bank at upstream side of bridge on U.S. Highway 50 at Pueblo and 2.6 mi upstream from mouth.

DRAINAGE AREA.--926 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR CO-79-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,705 ft above sea level, from topographic map. See WSP 1711 or 1731 for history of changes prior to Oct. 1, 1940, and WSP 1921 for changes prior to Sept. 30, 1965. Feb. 1, 1971 to Sept. 30, 1976, water-stage recorder at site 1.4 mi upstream at datum 4,725.30 ft, above sea level (unadjusted).

REMARKS.--Records fair except for estimated daily discharges, and those above 2,000 ft³/s, which are poor. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions for municipal use, diversions upstream from station for municipal use and for irrigation of about 14,000 acres upstream from station, and return flow from

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1903, that of June 17, 1965. Flood of June 4, 1921, reached a discharge of 34,000 ft³/s, by slope-area measurement. Flood of May 30, 1935, reached a discharge of 35,000 ft³/s, by slope-area measurement.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	176 172 185 191 221	211 210 217 215 214	163 162 160 154 154	94 89 91 94 95	148 144 138 136 135	139 152 152 150 141	119 109 135 121 121	330 304 287 273 248	228 246 222 210 208	216 198 207 193 185	354 313 297 242 944	273 232 211 214 370
6 7 8 9 10	192 180 174 168 164	208 200 193 193 187	157 157 151 153 148	88 e92 e94 e96 e98	132 129 127 137 132	139 132 130 131 129	112 108 103 105 107	274 304 295 300 277	302 2500 1180 1420 5820	180 182 170 158 153	1280 633 391 345 464	237 352 232 205 198
11 12 13 14 15	161 154 153 155 158	184 183 177 179 180	138 125 114 111 110	e98 e98 e98 e100 e105	138 139 139 145 146	131 127 128 131 137	106 108 108 113 105	269 313 338 312 291	2730 e2300 e1900 e4100 1510	139 134 111 85 78	545 340 436 297 237	174 160 158 157 149
16 17 18 19 20	137 137 142 154 161	178 182 181 187 180	111 e100 e105 e120 e120	e108 e110 e120 e130 138	148 147 146 157 145	137 143 140 136 134	70 60 60 61 49	271 241 225 274 238	1250 947 771 749 563	64 49 44 40 179	208 243 533 287 240	131 121 124 122 141
21 22 23 24 25	178 180 175 176 176	176 174 176 191 178	e120 e115 e110 e100 e105	135 132 124 124 114	144 143 144 143 144	136 134 135 137 178	43 96 110 1090 672	232 268 635 308 291	485 464 412 547 349	112 65 54 45 39	248 219 209 205 221	193 197 225 186 157
26 27 28 29 30 31	185 209 236 210 206 204	168 163 169 167 166	e105 e105 100 100 97 97	120 121 130 133 138 142	141 140 140 	153 142 136 137 137 138	666 721 621 438 320	303 278 260 260 333 256	411 349 346 313 287	30 92 185 348 1120 319	765 283 243 270 267 305	142 139 132 126 114
TOTAL MEAN MAX MIN AC-FT	5470 176 236 137 10850	5587 186 217 163 11080	3867 125 163 97 7670	3449 111 142 88 6840	3947 141 157 127 7830	4302 139 178 127 8530	6757 225 1090 43 13400	9088 293 635 225 18030	33119 1104 5820 208 65690	5174 167 1120 30 10260	11864 383 1280 205 23530	5572 186 370 114 11050
		ONTHLY MEAD										
MEAN MAX (WY) MIN (WY)	50.0 513 1985 .61 1963	62.1 303 1985 .90 1955	60.1 193 1985 1.10 1955	62.8 185 1985 1.90 1954	68.5 174 1985 1.40 1954	65.4 217 1992 1.00 1954	78.1 564 1942 1.10 1955	178 1188 1995 .28 1950	140 1104 1997 .71 1963	77.3 429 1995 .96 1964	116 650 1965 .71 1960	45.6 241 1982 .37 1978
SUMMARY	STATIST:	ICS	FOR 1996 CALENDAR YEAR			FOR 1997 WATER YEAR				WATER YEARS 1922 - 1997		
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN			62542 171			98196 269			85.4 325 4.42)	1995 1953	
LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM			3340 24 30	Jul 10 May 19 May 16		5820 30 62	Jun 10 Jul 26 Jul 21		10000 a.00	Jun) May	18 1965 12 1923 9 1945	
INSTANT INSTANT	CANEOUS PI	EAK FLOW EAK STAGE		124100	1.001 10		10100 8.04 194800	Jun 10		b ₄₇₀₀₀ c _{19.00} 61870	Jun	17 1965 17 1965
ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			216 151 59			378 161 100			175 34 1.0			

e-Estimated.

a-No flow at times many years. b-Site and datum then in use, from rating curve extended above 400 ft³/s, on basis of contracted-opening measurement of peak flow.

c-From floodmarks.

07106500 FOUNTAIN CREEK AT PUEBLO, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD .-- February 1981 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 with satellite telemetry.

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

EXTREMES FOR PERIOD OF RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 3,460 microsiemens, July 7, 1989; minimum, 162 microsiemens, June 7, 1997. WATER TEMPERATURE: Maximum, 33.1°C, July 17, 1991; minimum, 0.0°C, many days during the winter months.

EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 1,620 microsiemens, July 23; minimum, 162 microsiemens, June 7. WATER TEMPERATURE: Maximum, 31.7°C, July 15, 24; minimum, 0.0°C, many days during winter.

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
OCT 25 NOV	1045	180	1200	8.4	8.0	9.1	1.9	220
22	1345	180	1160	8.3	7.5	10.0	1.8	K30
DEC 13	1345	113	1250	8.4	8.5	10.1	1.5	K40
JAN 24	1345	129	1240	8.3	9.5	10.1	1.8	K500
FEB 21	1230	153	1160	8.3	7.0	10.0	e2.7	K67
MAR 21 MAY	1345	138	1150	8.3	17.5	8.1	1.7	
02 30 JUN	1345 1430	270 323	886 749	8.3 8.1	14.0 22.0	8.3 7.4	2.0 3.4	K38
27 JUL	1115	383	846	8.1	19.5	7.6	2.3	880
25 AUG	1245	40	1400	8.3	29.0	6.1	0.8	420
15 SEP	1200	256	984	8.3	22.0	7.1	1.3	390
19	1430	113	1120	8.4	24.0	6.7	e0.4	180
DATE	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
OCT 25	TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	GEN, NITRITE DIS- SOLVED (MG/L AS N)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	GEN, AMMONIA DIS- SOLVED (MG/L AS N)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	NIUM, DIS- SOLVED (UG/L AS SE)
OCT 25 NOV 22	TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)
OCT 25 NOV 22 DEC 13	TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)
OCT 25 NOV 22 DEC 13 JAN 24	TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) 0.01	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 5.0	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 0.02	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)
OCT 25 NOV 22 DEC 13 JAN 24 FEB 21	TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673) 110 K50	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530) 109 60 48	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) 0.01	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 5.0 5.0	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 0.02 0.09 <0.015	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 0.6 0.5	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) 0.49 0.50	NIUM, DIS- SOLVED (UG/L AS SE) (01145) 15 20
OCT 25 NOV 22 DEC 13 JAN 24 FEB 21 MAR 21	TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673) 110 K50 K25	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530) 109 60 48	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) 0.01 <0.01 0.01	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 5.0 5.0 5.5	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 0.02 0.09 <0.015 0.02	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 0.6 0.5 0.4	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) 0.49 0.49 0.50	NIUM, DIS- SOLVED (UG/L AS SE) (01145) 15 20 17
OCT 25 NOV 22 DEC 13 JAN 24 FEB 21 MAR 21 MAY 02 30	TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673) 110 K50 K25 K69	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530) 109 60 48 114	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) 0.01 <0.01 0.01 0.01	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 5.0 5.0 5.5 4.9 6.1	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 0.02 0.09 <0.015 0.02 <0.015	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 0.6 0.5 0.4 0.4	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) 0.49 0.49 0.50 0.45	NIUM, DIS- SOLVED (UG/L AS SE) (01145) 15 20 17 19
OCT 25 NOV 22 DEC 13 JAN 24 FEB 21 MAR 21 MAY 02 30 JUN 27	TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673) 110 K50 K25 K69	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530) 109 60 48 114 82 328	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) 0.01 <0.01 0.01 0.01 <0.01 <0.01 <0.01	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 5.0 5.0 5.5 4.9 6.1 7.0 3.02	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 0.02 0.09 <0.015 0.02 <0.015 <0.015	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 0.6 0.5 0.4 0.4 0.4 0.5 0.98	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) 0.49 0.50 0.45 0.50 0.29	NIUM, DIS- SOLVED (UG/L AS SE) (01145) 15 20 17 19 13 14
OCT 25 NOV 22 DEC 13 JAN 24 FEB 21 MAR 21 MAY 02 30 JUN 27 JUL 25	TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673) 110 K50 K25 K69 K36	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530) 109 60 48 114 82 328 200	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) 0.01 <0.01 0.01 0.01 <0.01 <0.01 <0.01	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 5.0 5.5 4.9 6.1 7.0 3.02 2.31	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 0.02 0.09 <0.015 0.02 <0.015 <0.015 <0.015	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 0.6 0.5 0.4 0.4 0.5 0.98 0.50	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) 0.49 0.50 0.45 0.50 0.29 0.270 0.155	NIUM, DIS- SOLVED (UG/L AS SE) (01145) 15 20 17 19 13 14
OCT 25 NOV 22 DEC 13 JAN 24 FEB 21 MAR 21 MAY 02 30 JUN 27 JUL	TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673) 110 K50 K25 K69 K36 K10 200 	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530) 109 60 48 114 82 328 200 410	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) 0.01 <0.01 0.01 0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 5.0 5.0 5.5 4.9 6.1 7.0 3.02 2.31 2.80	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 0.02 0.09 <0.015 0.02 <0.015 <0.015 0.016	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 0.6 0.5 0.4 0.4 0.4 0.5 0.92	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) 0.49 0.50 0.45 0.50 0.29 0.270 0.155 0.121	NIUM, DIS- SOLVED (UG/L AS SE) (01145) 15 20 17 19 13 14

e-Estimated.

K-Based on non-ideal colony count.

07106500 FOUNTAIN CREEK AT PUEBLO, CO--Continued

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

		SFI	CIFIC CON	IDUCTANCE,	(MICKOS	IEWENS/C	M @25 DEG. C), WAIEK	I EAR OC	10bek 1990 I	O SEPTEM	IDEK 1997
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER		N	NOVEMBER		D	DECEMBER			JANUARY		
1 2 3 4 5	1080 1060 1070 1060 1050	1030 1040 1030 1010 898	1050 1050 1050 1040 987	1080 1090 1110 1140 1160	1050 1050 1050 1090 1100	1060 1070 1080 1110 1130	1250 1280 1230 1250 1240	1160 1210 1170 1200 1190	1210 1240 1200 1220 1220	1190 1190 1180 1180 1180	1140 1140 1130 1140 1110	1170 1160 1150 1160 1140
6 7 8 9 10	1030 1060 1070 1070 1080	936 1010 1030 1030 1040	987 1040 1050 1050 1060	1170 1150 1080 1100 1110	1140 1050 1070 1070 1080	1150 1090 1080 1090 1100	1240 1210 1220 1190 1180	1180 1170 1170 1130 1130	1210 1190 1190 1160 1150	1150 1160 1170 1220	1080 1070 1100 1110	1120 1120 1150 1170
11 12 13 14 15	1090 1100 1090 1110 1130	1030 1050 1050 1060 1060	1060 1070 1070 1090 1090	1120 1160 1180 1190 1200	1090 1120 1130 1160 1170	1110 1130 1160 1170 1180	1200 1210 1210 1200 1210	1160 1170 1180 1160 1110	1180 1180 1200 1180 1180	 	 	
16 17 18 19 20	1170 1190 1230 1220 1180	1120 1140 1120 1100 1110	1150 1160 1170 1150 1140	1210 1210 1220 1200 1190	1180 1170 1160 1140 1160	1190 1190 1190 1170 1180	1210 1240 	1150 1090 	1190 1150 	 	 	
21 22 23 24 25	1150 1110 1140 1150 1140	1070 1070 1090 1110	1100 1080 1110 1130 1130	1200 1200 1280 1230 1220	1160 1160 1160 1140 1160	1180 1180 1200 1180 1190	1200 1210 1230 1220	1050 1170 1150 1170	1150 1190 1200 1200	1270 1270 1280 1280 1320	1230 1230 1250 1240 1260	1250 1250 1270 1260 1290
26 27 28 29 30 31	1150 1250 1120 1130 1100 1090	1100 1090 1000 1070 1050 1060	1120 1140 1060 1100 1070	1230 1260 1320 1320 1240	1190 1180 1160 1230 1190	1210 1220 1240 1270 1220	1250 1230 1240 1230 1210 1180	1130 1130 1200 1180 1150 1140	1200 1200 1220 1200 1180 1170	1300 1270 1290 1240 1220 1220	1260 1230 1190 1190 1160 1140	1280 1250 1240 1210 1190 1180
MONTH	1250	898	1080	1320	1050	1160						
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	1180 1220 1210 1200 1210	1100 1130 1160 1040 1170	1140 1180 1180 1140 1190	1180 1250 1250 1180 1200	1140 1130 1150 1140 1140	1160 1190 1190 1170 1170	1210 1240 1190 1200 1240	1150 1190 1110 1150 1180	1180 1230 1150 1170 1210	918 906 887 890 891	879 865 730 866 858	893 882 871 880 871
6 7 8 9 10	1210 1200 1230 1210 1210	1180 1150 1170 1150 1170	1190 1170 1190 1180 1190	1220 1190 1170 1220 1210	1140 1130 1110 1130 1140	1180 1160 1140 1180 1170	1250 1260 1220 1250 1210	1170 1180 1190 1150 1180	1220 1220 1210 1200 1200	892 875 922 884 797	840 648 648 748 776	864 834 861 779 785
11 12 13 14 15	1240 1220 1210 1210 1230	1180 1170 1170 1170 1170	1200 1200 1190 1190 1200	1180 1200 1190 1190 1190	1140 1150 1150 1150 1140	1160 1170 1170 1170 1160	1240 1260 1250 1180 1190	1180 1170 1120 1110 1130	1210 1210 1170 1140 1160	826 833 856 875 888	785 770 782 795 864	803 804 813 828 874
16 17 18 19 20	1210 1210 1190 1170 1200	1150 1150 1140 1130 1170	1180 1180 1160 1150 1180	1190 1200 1190 1190 1200	1140 1130 1150 1140 1160	1170 1160 1170 1170 1190	1240 1270 1280 1330 1380	1160 1230 1220 1260 1280	1200 1250 1250 1290 1320	892 919 944 953 940	845 865 914 890 904	869 889 925 920 922
21 22 23 24 25	1210 1210 1230 1210 1220	1170 1150 1150 1130 1170	1190 1180 1180 1170 1190	1230 1240 1230 1190 1190	1190 1200 1130 1160 1100	1210 1220 1160 1180 1140	1320 1370 992 1020	1130 929 935 926	1240 1100 958 994	988 950 844 	907 830 205 	922 882 425
26 27 28 29 30 31	1210 1190 1190 	1160 1140 1140 	1180 1160 1170 	1160 1220 1310 1250 1260 1250	1120 1160 1180 1190 1170 1130	1140 1190 1210 1220 1210 1200	 967 970 	 894 918	 927 946	 962 969 943 920	 891 897 756 872	 905 926 841 901
MONTH	1240	1040	1180	1310	1100	1180						
				_510								

07106500 FOUNTAIN CREEK AT PUEBLO, CO--Continued

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

		511	3011 10 0011	D C C T I I (CD)	, (micros)	ELITE TO CIT	1 0 20 020.0	<i>-</i>),	· · · · · · · · · · · · · · · · · · ·	OBLICION I	O DEL TEN	IDDIC 1997
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		-	AUGUST			SEPTEMBE	R
1 2 3 4 5	973 981 963 929 946	895 878 888 904 911	922 929 916 915 925	1010 1010 1020 1010 1050	971 971 945 945 1010	988 992 989 977 1030	902 910 1030 1200 1200	828 804 863 891 456	876 869 927 939 735	1330 1030 1040 1040 1050	969 980 1010 996 832	1020 996 1020 1020 931
6 7 8 9 10	963 906 	722 162 	870 506 	1100 1260 1300 1320 1330	1050 1100 1230 1170 1170	1070 1160 1270 1290 1230	1040 887 903 1130 964	562 746 842 853 630	764 823 885 908 888	997 997 999 1050 1070	932 777 868 966 1020	962 878 932 1010 1040
11 12 13 14 15	 	 	 	1230 1250 1220 1200 1220	1190 1190 1180 1150 1160	1210 1220 1200 1170 1190	953 929 939 963 1030	657 754 718 792 951	848 868 864 902 985	1090 1100 1110 1120 1120	1050 1060 1080 1080 1100	1070 1080 1090 1090 1100
16 17 18 19 20	 		 	1260 1300 1330 1350 1370	1200 1230 1250 1300 862	1220 1260 1290 1330 1100	1050 1060 1060 990 1040	1020 1010 607 796 982	1030 1030 827 906 1010	1150 1170 1160 1160 1220	1120 1130 1120 1130 1080	1130 1140 1130 1140 1140
21 22 23 24 25			 	1200 1220 1620 1540 1430	1150 1170 1220 1340 1360	1170 1190 1300 1370 1400	1060 1100 1110 1130 1140	991 1060 1080 1090 1060	1030 1070 1100 1110 1110	1250 1390 1190 1150 1170	1070 1060 1050 1060 1140	1110 1110 1090 1100 1160
26 27 28 29 30 31			 	1470 1390 1210 921 1460 897	864 913 801 667 500 672	1420 1150 1030 798 766 820	1070 953 995 1330 1020 1280	529 747 939 926 944 879	721 867 964 1010 962 1000	1190 1220 1240 1250 1270	1160 1180 1210 1220 1240	1180 1200 1220 1230 1260
MONTH				1620	500	1150	1330	456	930	1390	777	1090

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	VEMBER		DE	CEMBER			JANUARY	
1 2 3 4 5	21.2 18.3 18.2 20.2 19.7	11.8 11.5 10.2 11.7 11.7	16.1 14.3 13.9 15.4 15.6	11.9 12.1 12.0 13.9 12.0	4.5 4.0 5.0 7.1 5.2	7.7 7.8 8.2 9.9 8.3	6.6 5.4 4.4 4.7	.0 .5 .0 .0	2.7 2.4 1.4 1.2 2.9	7.7 11.5 9.1 7.5 1.2	1.7 2.4 4.2 1.1	4.6 6.6 6.3 3.9
6 7 8 9 10	20.4 19.5 19.9 19.0 19.0	11.9 11.5 10.5 10.2 10.1	15.8 15.1 14.8 14.3 14.3	9.8 9.0 8.6 10.3 11.2	4.8 2.2 1.7 2.9 3.4	6.9 5.0 4.9 6.4 7.0	4.0 6.1 5.0 9.4 9.2	1.9 .0 .2 1.7 3.8	3.0 2.8 2.6 5.2 6.0	3.0 .1 1.5 2.4 .0	.0.0.0.0	.7 .0 .2 .4 .0
11 12 13 14 15	20.0 20.3 20.3 19.1 19.0	10.4 10.5 10.5 10.8 10.8	14.7 14.9 15.0 14.7 14.5	10.9 10.1 10.8 6.7 6.0	3.4 4.5 3.7 4.8 3.6	6.8 6.8 7.0 6.1 4.8	9.5 8.5 8.3 6.2 4.2	3.7 1.6 1.7 .8	6.0 4.7 4.6 3.0 1.2	.0.0.0	.0.0.0.0	.0.0.0
16 17 18 19 20	18.0 14.3 13.7 12.5 11.8	9.1 8.8 7.1 7.5 6.7	13.0 11.1 10.2 9.8 9.3	6.4 6.5 10.0 13.1 12.7	2.5 .8 1.7 5.2 5.4	4.9 3.5 5.6 8.6 8.6	3.5 .0 .0 .0	.0.0.0.0	.7 .0 .0 .0	.0 .0 .6 4.0 5.1	.0.0.0.0	.0 .0 .1 1.0 2.2
21 22 23 24 25	8.9 11.8 12.0 13.2 13.8	4.9 1.9 4.3 4.6 5.8	6.6 6.5 8.0 8.7 9.1	10.0 8.3 5.8 7.6 8.1	4.6 4.0 3.5 3.0 1.8	7.0 6.1 4.6 4.8 4.5	.5 2.6 1.4 2.1 4.3	.0.0.0.0	.0 1.0 .2 .4 1.5	6.9 5.6 7.3 6.1 4.3	1.2 .0 .5 .0	3.2 2.1 3.4 2.3 1.4
26 27 28 29 30 31	12.1 7.2 12.7 11.6 12.7 8.1	5.0 3.2 4.5 4.9 4.8 5.7	8.0 5.4 8.2 8.2 8.4 6.4	4.2 5.5 5.1 7.7 6.3	1.6 .4 .0 1.8 1.5	2.9 2.3 2.1 4.4 3.6	1.1 8.0 7.5 8.3 6.8 9.3	.0 .0 1.5 1.9 1.5 2.4	.2 3.4 3.8 4.6 4.2 5.5	7.4 3.4 4.4 6.2 8.0 10.1	.1 .0 .0 1.5 .0 2.6	3.2 1.3 1.6 3.6 3.5 6.2
MONTH	21.2	1.9	11.6	13.9	.0	5.9	9.5	.0	2.4	11.5	.0	1.9

07106500 FOUNTAIN CREEK AT PUEBLO, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	7.0 5.5	4.5 2.2 1.1 .0	7.0 5.0 3.8 2.8 2.0	9.7 11.1 11.5 7.7 9.7	.1 .1 2.0 .8 .0	4.1 5.2 6.4 3.9 4.1	15.5 7.9 15.6 17.1 9.8	7.1 5.0 4.2 6.6 4.0	10.6 6.2 9.5 10.9 7.2	14.9 15.5 18.3 19.4 20.7	9.1 6.4 6.2 9.2 11.0	11.7 10.8 11.9 14.2 15.5
		.0 .0 .0	.9 1.8 1.7 2.2 1.9		.2 1.7 1.8 3.3 3.3	5.7 6.9 7.3 7.5 8.7	13.3 15.7 10.3 16.5 7.3		6.7 8.2 6.6 8.4 4.3	14 1	11.3 9.8 10.3	15.5 14.4 12.1 14.5 15.6
11 12 13 14 15	6.0 6.7 7.7 7.5 10.1	.0 .6 1.0 .0	2.2 3.4 3.5 2.9 4.5	15.6 15.5 14.6 5.7 10.6	3.1 4.4 4.6 1.6	9.0 9.5 8.7 3.9 4.4	7.2 11.8 15.1 15.3 18.9	.0 .0 .0 1.8 4.6	2.6 4.7 6.8 8.0 10.8		10.0 10.6 11.6	15.0 14.6 15.4 15.7 16.7
	12.1 9.9	.4 2.4 2.6 4.7 2.3	5.2 6.4 7.0 7.5 5.5	13.4 14.4 16.9 18.0 18.9	1.1 5.5 5.4 4.3 6.5	7.1 9.3 10.4 10.8 12.1	20.2 15.2 20.6 15.4 18.1	8.2 6.4 7.4 8.7 10.4	13.2 11.5 13.5 12.6 13.9	22.8 23.1 20.0 15.5 19.5	12.3 12.8 12.5 11.3 9.8	17.0 17.3 16.1 13.4 14.7
21 22 23 24 25	8.4 8.7 3.3 6.2 7.9	1.6 .0 .0 .0	4.4 3.7 1.7 2.1 2.9		6.3 6.5 4.2 2.3	12.0 11.7 10.6 7.2 7.3	18.6 17.1 15.8 10.2 7.1	8.7 8.2 4.1 3.8	13.6 12.3 11.6 6.8 5.4		13.9 12.8 13.6	17.1 16.4 16.7 17.2 17.4
26 27 28 29 30 31	5.8 6.3 8.9 	. 4 . 0 . 5 	2.6 2.4 3.8 	16.7 16.4 15.5 9.4 15.9 17.6	3.4 5.6 4.4 4.7 1.8 4.2	9.5 10.2 9.6 6.6 8.4 10.5	12.3 16.4 16.0 17.9 18.1	5.8 7.5 10.4 9.7 9.1	8.8 11.6 13.1 13.4 13.4	21.6	14.4 13.1 11.9 13.6 14.6 14.6	16.9 16.9 17.2 18.2
MONTH	12.2	.0	3.6			8.0	20.6	.0	9.5	27.1	6.2	15.6
											~~~~	
1	26 4	JUNE	21 0	27 1	JULY	21 2		AUGUST	22 2		SEPTEMBE	
1 2 3 4 5	26.4 22.0 27.4 26.9 26.9		21.0 18.9 21.0 20.9 20.8	27.1 25.1 25.7 26.7 25.5		21.2 20.0 20.0 20.7 20.5		19.6 19.2 18.5 20.0	22.2 21.6 22.8 23.0 20.2		17.5 18.9 19.5 18.2	21.6 21.9 22.2 22.3
2 3 4	22.0 27.4 26.9	16.0 16.9 16.3 16.1 16.3 15.5 14.8 15.4	21.0 18.9 21.0 20.9 20.8 19.7 17.5 17.1 15.8 15.6	27.1 25.1 25.7 26.7 25.5 25.5 24.3 27.4 28.1 28.6	16.1 15.3 14.8 16.0 15.6 16.2 15.1 16.0 15.7	21.2 20.0 20.0 20.7 20.5 19.7 19.1 20.7 21.2 21.9	25.5 24.2 27.9 27.9 21.5	19.6 19.2 18.5 20.0 19.5	22.2 21.6 22.8 23.0 20.2 18.5 19.7 21.6 21.5 19.7	26.5 26.5 26.5 27.2	17.5 18.9 19.5 18.2 18.4 18.2 17.2 17.3 16.5	21.6 21.9 22.2 22.3 22.0 21.6 21.2 21.4 19.2
2 3 4 5 6 7 8 9 10 11 12 13	22.0 27.4 26.9 26.9 24.7 19.5 19.7 18.2 17.6	16.0 16.9 16.3 16.1 16.3 15.5 14.8 15.4 14.3 14.1	19.7 17.5 17.1 15.8 15.6 17.1 17.5 17.9		16.1 15.3 14.8 16.0 15.6 16.2 15.1 16.0 15.7 16.6	19.7 19.1 20.7 21.2 21.9 21.7 22.4 22.3	25.5 24.2 27.9 27.9 21.5 19.8 23.7 26.6 25.2 21.0 24.5 25.3 25.3	19.6 19.2 18.5 20.0 19.5 17.6 16.6 17.4 18.1 18.7	18.5 19.7 21.6 21.5 19.7 20.7 21.0 21.5	26.5 26.5 26.5 27.2 26.6 25.6 26.1 26.3 22.8 25.2 25.9 25.8	17.5 18.9 19.5 18.2 18.4 18.2 17.2 17.3 16.5 15.4	21.6 21.9 22.2 22.3 22.0 21.6 21.2 21.4 19.6 20.0 20.1 20.4
2 3 4 5 6 7 8 9 10 11 12 13 14	22.0 27.4 26.9 26.9 24.7 19.5 19.7 18.2 17.6	16.0 16.9 16.3 16.1 16.3 15.5 14.8 15.4 14.3 14.1 14.9 15.3 15.6	19.7 17.5 17.1 15.8 15.6 17.1 17.5 17.9 17.5	25.5 24.3 27.4 28.1 28.6 27.2 28.9 29.0 30.2	16.1 15.3 14.8 16.0 15.6 16.2 15.1 16.0 15.7 16.6 18.1 16.7	19.7 19.1 20.7 21.2 21.9 21.7 22.4 22.3 22.9	25.5 24.2 27.9 27.9 21.5 19.8 23.7 26.6 25.2 21.0 24.5 25.3 25.3 25.3	19.6 19.2 18.5 20.0 19.5 17.6 16.6 17.4 18.1 18.7 17.9 17.4 18.5 16.8	18.5 19.7 21.6 21.5 19.7 20.7 21.0 21.5 20.6	26.5 26.5 26.5 27.2 26.6 25.6 26.1 26.3 22.8 25.2 25.9 25.8 26.3 26.3	17.5 18.9 19.5 18.2 18.4 18.2 17.2 17.3 16.5 15.4 15.6 15.9 16.6	21.6 21.9 22.2 22.3 22.0 21.6 21.2 21.4 19.2 19.6
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	22.0 27.4 26.9 26.9 24.7 19.5 19.7 18.2 17.6 19.8 20.0 20.7 19.0 23.0 24.7 25.3	16.0 16.9 16.3 16.1 16.3 15.5 14.8 15.4 14.3 14.1 14.9 15.3 15.6 16.3	19.7 17.5 17.1 15.8 15.6 17.1 17.5 17.9 17.5 18.4 17.4 18.9 20.5 21.7	25.5 24.3 27.4 28.1 28.6 27.2 28.9 29.0 30.2 31.7 31.5 30.9 29.8 31.0	16.1 15.3 14.8 16.0 15.6 16.2 15.1 16.0 15.7 16.6 18.1 16.7 16.8 17.0 18.3 18.6 17.5 19.5	19.7 19.1 20.7 21.2 21.9 21.7 22.4 22.3 22.9 24.3 23.9 23.3 22.7 22.9	25.5 24.2 27.9 27.9 21.5 19.8 23.7 26.6 25.2 21.0 24.5 25.3 25.3 25.1 26.5	19.6 19.2 18.5 20.0 19.5 17.6 16.6 17.4 18.1 18.7 17.9 17.4 16.8 16.2	18.5 19.7 21.6 21.5 19.7 20.7 21.0 21.5 20.6 20.8 20.8 20.8 20.8	26.5 26.5 26.5 27.2 26.6 25.6 25.6 26.3 22.8 25.2 25.9 26.8 26.3 26.9 26.8	17.5 18.9 19.5 18.2 18.4 18.2 17.2 17.3 16.5 15.4 15.6 15.9 16.6 16.1 17.2 15.8 15.1 15.7	21.6 21.9 22.2 22.3 22.0 21.6 21.2 21.4 19.2 19.6 20.0 20.1 20.4 20.9 21.0 20.2 19.9 19.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	22.0 27.4 26.9 26.9 24.7 19.5 19.7 18.2 17.6 19.8 20.7 19.0 20.7 19.0 23.0 24.7 25.3 26.0 26.5 26.7 27.7 25.8	16.0 16.9 16.3 16.1 16.3 15.5 14.8 15.4 14.3 14.1 14.9 15.3 15.6 16.3 15.6 16.3	19.7 17.5 17.1 15.8 15.6 17.1 17.5 17.9 17.5 18.4 17.4 18.9 20.5 21.7 22.1 22.7 23.0 23.0 22.3	25.5 24.3 27.4 28.1 28.6 27.2 28.9 29.0 30.2 31.7 31.5 30.9 29.8 31.0 27.3 29.5 30.0 31.7	16.1 15.3 14.8 16.0 15.6 16.2 15.1 16.0 15.7 16.6 18.1 16.8 17.0 18.3 18.6 17.5 19.5 18.0 18.1 17.9 18.1 17.9	19.7 19.1 20.7 21.2 21.9 21.7 22.4 22.3 22.9 24.3 23.9 23.3 22.7 22.9 21.9 23.1 23.4 23.3 22.9 21.9	25.5 24.2 27.9 27.9 21.5 19.8 23.7 26.6 25.2 21.0 24.5 25.3 25.3 25.1 26.5 26.4 25.4 25.7 27.1 27.1 27.1 27.2 28.4 27.9 29.0 25.7 27.9	19.6 19.2 18.5 20.0 19.5 17.6 16.6 17.4 18.1 17.9 17.9 17.4 16.8 16.2 16.7 17.0 18.4 16.4 17.1	18.5 19.7 21.6 21.5 19.7 20.7 21.0 21.5 20.6 20.8 20.8 20.8 20.6 21.2 21.1 21.6 22.3 22.1	26.5 26.5 27.2 26.6 25.6 25.6 26.1 26.3 22.8 25.2 25.9 26.8 26.9 26.8 23.4 25.5 24.9 24.9 17.2	17.5 18.9 19.5 18.2 18.4 18.2 17.3 16.5 15.4 15.6 15.9 16.6 16.1 17.2 15.8 15.1 15.7 13.2	21.6 21.9 22.2 22.3 22.0 21.6 21.2 21.4 19.2 19.6 20.0 20.1 20.4 20.9 21.0 20.2 19.9 19.7 14.6
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	22.0 27.4 26.9 26.9 24.7 19.5 19.7 18.2 17.6 19.8 20.0 20.7 19.0 23.0 24.7 25.3 26.0 26.5 26.7 27.6 25.8 26.2 27.1 28.1 27.0	16.0 16.9 16.3 16.1 16.3 15.5 14.8 15.4 14.3 14.1 14.9 15.3 15.6 16.3 15.6 17.0 18.6 19.1 18.9 18.8 18.3 17.7 17.9 18.9 18.9 18.9	19.7 17.5 17.1 15.8 15.6 17.1 17.5 17.9 17.5 18.4 17.4 18.9 20.5 21.7 22.1 22.7 23.0 23.0 22.3 22.1 21.9 21.5 22.2 22.2	25.5 24.3 27.4 28.1 28.6 27.2 28.9 29.0 30.2 31.7 31.5 30.9 29.8 31.0 27.3 29.5 30.0 31.6	16.1 15.3 14.8 16.0 15.6 16.2 15.1 16.0 15.7 16.6 18.1 16.8 17.0 18.3 18.6 17.5 19.5 18.0 18.1 17.9 18.1 17.9 18.1 17.9	19.7 19.1 20.7 21.2 21.9 21.7 22.4 22.3 22.9 24.3 23.9 23.3 22.9 21.9 23.1 23.4 23.4 23.3 24.0 23.3 24.0 23.3	25.5 24.2 27.9 27.9 21.5 19.8 23.7 26.6 25.2 21.0 24.5 25.3 25.3 25.1 26.5 26.4 23.2 25.7 27.1 27.1 27.2 28.4 27.9 29.0 25.7	19.6 19.2 18.5 20.0 19.5 17.6 16.6 17.4 18.1 18.7 17.9 17.4 18.5 16.8 16.2 16.7 17.0 18.4 17.1 16.6 17.0 17.2 17.3 18.1 19.2 18.8 19.3 19.0 18.5	18.5 19.7 21.6 21.5 19.7 20.7 21.0 21.5 20.6 20.8 20.8 20.8 20.6 21.2 21.1 21.6 22.3 22.1 22.4 21.9 22.9 22.9 22.9 22.6 20.9	26.5 26.5 26.5 27.2 26.6 25.6 25.6 25.8 25.2 25.9 25.8 26.3 26.9 26.8 23.4 25.5 24.9 27.2 16.1 21.2 27.7 21.2 22.7	17.5 18.9 19.5 18.2 18.4  18.2 17.3 16.5 15.4  15.6 15.9 16.6 16.1  17.2 15.8 15.7 13.2  12.6 14.3 14.2 13.3 14.2 13.6 13.6	21.6 21.9 22.2 22.3 22.0 21.6 21.2 21.4 19.2 19.6 20.1 20.1 20.4 20.9 21.0 20.2 19.9 19.7 14.6 14.1 17.2 15.7 16.8 17.2 17.5 18.8 17.4 17.2

## 07108900 ST. CHARLES RIVER AT VINELAND, CO

LOCATION.--Lat 38°14'44", long 104°29'09", in NE¹/4SW¹/4 sec.6, T.21 S., R.63 W., Pueblo County, Hydrologic Unit 11020002, on right bank at right downstream end of downstream bridge on U.S. Highway 50C, 1.6 mi west of Vineland, and 3.0 mi upstream from mouth.

DRAINAGE AREA.--474 mi².

PERIOD OF RECORD.--October 1978 to current year. March 1968 to September 1974 at site 2.6 mi upstream and at different datum, published as 07108800 St. Charles River near Vineland, not equivalent because of tributary inflow.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Datum of gage is 4,581.58 ft above sea level, (Colorado Division of Highways benchmark).

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions upstream from station for irrigation of about 8,500 acres, and for industrial uses, and return flow from land irrigated by Bessemer Ditch. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1901, 56,000 ft³/s, at site 5.0 mi downstream.

			DISCH	ARGE, CUBIC	FEET PER S		WATER YEAR MEAN VALU		1996 TO SE	PTEMBER 19	97	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	14 15 15 14	30 29 28 28 22	19 18 16 15	18 16 16 14 14	15 17 18 15	14 14 14 13 12	24 24 21 18 17	159 194 163 144 140	48 48 49 65 99	17 15 14 15	12 21 13 13 52	205 27 21 18 15
6 7 8 9 10	13 13 13 14 14	16 18 18 18	20 20 17 19 18	13 15 15 14 14	14 14 14 13 14	11 13 13 12 12	14 13 12 13	121 118 115 112 104	78 81 102 93 137	16 14 15 13 14	183 51 45 36 185	15 15 13 11
11 12 13 14 15	14 14 12 12	19 19 18 20 18	19 19 19 18 16	e14 e13 e12 e11 11	14 15 15 15 14	12 12 14 17 17	13 14 13 13	100 98 100 99 99	117 89 92 91 87	12 12 11 9.5	119 61 152 50 38	10 11 11 11 10
16 17 18 19 20	11 12 12 12 12	17 16 17 16 17	16 e15 e15 e15 e14	13 14 13 14 15	14 13 14 14	18 19 17 17	10 11 9.7 11	97 99 110 123 152	69 56 54 41 36	9.5 10 7.6 8.9 10	29 28 41 24 21	10 9.1 9.6 11 12
21 22 23 24 25	12 13 14 13 14	17 18 18 19	13 13 14 16 14	15 14 14 14 15	14 14 13 13	19 19 18 19 21	11 14 13 31 49	167 185 184 180 157	33 30 26 25 23	14 18 11 11	19 18 16 15 12	14 14 15 16 18
26 27 28 29 30 31	13 15 22 30 30 30	18 18 18 19 20	15 15 16 17 18 17	16 14 14 15 15	14 15 13 	19 20 20 24 26 23	61 75 108 131 177	147 136 116 95 52 50	26 22 22 24 21	12 14 16 16 15	13 14 12 12 14 14	17 16 16 15 15
TOTAL MEAN MAX MIN AC-FT	467 15.1 30 11 926	585 19.5 30 16 1160	511 16.5 20 13 1010	441 14.2 18 11 875	400 14.3 18 13 793	517 16.7 26 11 1030	957.7 31.9 177 9.7 1900	3916 126 194 50 7770	1784 59.5 137 21 3540	399.5 12.9 18 7.6 792	1333 43.0 185 12 2640	610.7 20.4 205 9.1 1210
STATIST	ICS OF MO	NTHLY MEA	N DATA FO	OR WATER Y	EARS 1979	- 1997,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	13.9 39.5 1983 3.50 1979	14.7 31.8 1983 5.59 1979	12.4 22.4 1983 6.81 1981	12.3 16.6 1984 6.75 1981	13.0 22.5 1987 7.68 1995	17.6 45.3 1987 6.71 1995	60.3 306 1987 5.02 1981	152 484 1980 6.06 1991	87.5 358 1983 8.79 1990	37.6 108 1995 7.60 1981	49.0 207 1982 10.2 1989	20.8 120 1982 6.36 1980
SUMMARY	STATISTI	CS	FOR 1	.996 CALENI	DAR YEAR	F	OR 1997 WA	TER YEAR		WATER YE	ARS 1979	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN AN N MINIMUM AK FLOW AK STAGE C-FT) DS DS		8779.2 24.0 581 8.3 8.6 17410 31 16 12	Jul 23 Jul 3 Jul 1		205 7.6 9.4 1480 7.68 23650 99 16 12	Sep 1 Jul 18 Jul 14 Sep 1 Sep 1		41.1 88.4 9.52 1550 .25 2.7 a7560 12.70 29750 93 14 6.5	May 1 Apr 2 Apr 2 Aug 1	1987 1979 16 1980 25 1979 25 1981 11 1982 11 1982

e-Estimated.

a-From rating curve extended above 1800 ft³/s.

#### 07109500 ARKANSAS RIVER NEAR AVONDALE, CO

LOCATION.--Lat 38°14'53", long 104°23'55", in NE1/4SW1/4 sec.1, T.21 S., R.63 W., Pueblo County, Hydrologic Unit 11020002, on right bank 15 ft downstream from bridge on Sixmile Road, 0.3 mi upstream from Sixmile Creek, and 2.6 mi west of Avondale. DRAINAGE AREA.--6,327 mi².

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1939 to September 1951, February 1965 to current year. Statistical summary computed for 1975 to current year.

REVISED RECORDS.--WSP 1087: 1942. WSP 1311: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,509.53 ft above sea level. Prior to January 21, 1965, at site 550 ft downstream at datum 1.37 ft lower. January 21, 1965 to September 30, 1991, at datum 1.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals, diversions for irrigation of about 123,000 acres and municipal use, and return flow from irrigated areas. Flow partly regulated by Pueblo Reservoir (station 07099350) since Jan. 9, 1974.

Juii.	,, 1,,											
			DISCHAI	RGE, CUBIC	FEET PER SEC		ATER YEAR ÆAN VALU		996 TO SEP	TEMBER 1997		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	445 431 439 430 429	749 728 724 720 703	331 333 336 326 314	289 291 294 294 285	539 537 543 471 449	467 465 467 502 458	1480 1480 1450 1230 1260	1350 1410 1410 1160 995	1920 2550 3730 4340 4680	2730 2560 2430 2370 2230	1380 1450 1420 1480 2460	1170 916 897 874 959
6 7 8 9	417 385 398 408 393	641 595 544 565 647	336 341 335 338 338	285 284 303 308 313	387 346 345 332 329	399 384 436 440 464	1260 1260 1300 1290 1190	986 1070 1150 1220 1270	4810 5700 5710 5520 6490	1960 1670 1610 1600	3280 2620 2280 1960 2290	1200 1190 1060 720 621
11 12 13 14 15	395 326 300 292 302	676 693 617 496 425	322 324 318 314 306	326 302 e300 e310 e310	331 332 339 329 315	573 726 723 561 574	1160 1160 1120 1100 1090	1380 1390 1610 1610 1660	6130 6730 5740 5990 5000	1560 1440 1520 1560 1420	2770 2760 2440 2180 1870	593 573 571 562 557
16 17 18 19 20	283 258 259 292 295	410 394 381 381 350	307 309 312 e312 e315	e300 e310 e310 e320 e330	314 314 311 313 320	691 837 1000 934 992	1080 1080 1130 1190 1230	1680 1830 2020 2210 2300	5590 5760 5920 5540 5540	1220 1190 1210 1420 1560	1610 1590 1760 1570 1320	561 557 593 590 608
21 22 23 24 25	309 363 367 460 533	333 329 342 366 364	e312 311 303 299 282	341 367 508 517 526	378 452 458 478 491	992 1080 1100 1090 1120	1250 1370 1380 1570 1500	2330 2410 2750 2720 2630	5860 5850 6080 5850 4610	1680 1860 1880 1830 1790	1170 993 828 790 643	719 694 816 983 978
26 27 28 29 30 31	600 640 705 758 754 742	366 375 350 340 336	279 290 292 284 277 284	522 513 516 531 551 540	496 489 483 	1230 1230 1300 1420 1430 1440	1430 1440 1270 1100 1230	2600 2590 2460 1930 1520 1540	4340 3740 3350 3140 2910	1620 1450 1450 1510 1720 1590	1010 861 787 813 962 959	1080 995 935 893 671
TOTAL MEAN MAX MIN AC-FT	13408 433 758 258 26590	14940 498 749 329 29630	9680 312 341 277 19200	11496 371 551 284 22800	11221 401 543 311 22260	25525 823 1440 384 50630	38080 1269 1570 1080 75530	55191 1780 2750 986 109500	149120 4971 6730 1920 295800	53240 1717 2730 1190 105600	50306 1623 3280 643 99780	24136 805 1200 557 47870
STATIST	rics of M	ONTHLY ME.	AN DATA F	FOR WATER	YEARS 1975	- 1997	, BY WATE	R YEAR (WY	( )			
MEAN MAX (WY) MIN (WY)	527 1631 1985 187 1979	457 985 1985 170 1979	344 718 1987 197 1979	378 770 1985 190 1979	429 1103 1985 223 1979	530 994 1985 219 1978	830 1884 1987 220 1978	1621 4170 1980 517 1977	2814 4971 1997 638 1977	1951 4432 1995 562 1977	1336 3210 1984 423 1977	639 1511 1982 200 1977
SUMMARY	Y STATIST	'ICS	FOR	1996 CALE	NDAR YEAR		FOR 1997	WATER YEAR	<u> </u>	WATER YE	ARS 1975	- 1997
LOWEST HIGHES		EAN EAN		364840 997 e ₅₄₁₀ 258	Jul 10 Oct 17		456343 1250 6730 258	Jun 12 Oct 17		a990 1626 411 b6930 C90		1985 1977 3 1994 19 1978
ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	SEVEN-DA FANEOUS P	Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS		723700 2220 685 333	Oct 14		283 8150	Oct 17 Oct 14 Jun 14 64 Jun 14	:	118 d ₁₅₄₀₀ 8.93 717200 2320 586 270	Nov Jul	19 1978 16 1978 30 1978 30 1978

e-Estimated.

e-Estimated.

a-Average discharge for 20 years (water years 1940-51, 1966-73), 867 ft³/s; 628100 acre-ft/yr, prior to completion of Pueblo Reservoir.

b-Maximum daily discharge for period of record, 12100 ft³/s, Apr 24, 1942.

c-Minimum daily discharge for period of record, 50 ft³/s, Apr 2, 1940.

d-Maximum discharge and stage for period of record, about 50000 ft³/s, Jun 18, 1965, gage height, 9.77 ft, from rating curve extended above 6700 ft³/s, on basis of records for station near Pueblo and indirect measurements of peak flow on Fountain Creek at Pueblo, Chico Creek near North Avondale, and Arkansas River near North Avondale.

# 07109500 ARKANSAS RIVER NEAR AVONDALE, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--April to October 1976, April 1979 to September 1980, December 1985 to current year.

#### PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: July 1979 to September 1980, December 1985 to current year. WATER TEMPERATURE: July 1979 to September 1980, December 1985 to current year.

pH: July 1979 to September 1980, August 1988 to current year.

DISSOLVED OXYGEN: July 1979 to September 1980, August 1988 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Records for daily specific conductance are good except Oct. 31 to Dec. 12, Jan. 22-24, Jan. 26 to Feb. 7, Feb. 28 to Mar. 25, Apr. 2-9, May 9-23, and Sept. 14-15, 21-24, which are poor. Records for daily pH are fair except Oct. 1 to Mar. 31, which are poor. Records for daily water temperature are good. Records for daily dissolved oxygen are poor. Daily data that are not published are either missing or of unacceptable quality. Water-quality data prior to December 1985 are published in other reports.

#### EXTREMES FOR PERIOD OF RECORD ..--

SPECIFIC CONDUCTANCE: Maximum, 1,380 microsiemens, Jan.24, 25, 1980; minimum, 246 microsiemens, June 16, 1980.

pH: Maximum, 9.1 units, Dec. 3, 1989; minimum, 7.2 units, several days in 1992, 1995-96.

WATER TEMPERATURE: Maximum, 31.5°C, Aug. 6, 1980; minimum, 0.0°C, many days.

DISSOLVED OXYGEN: Maximum, 14.0 mg/L, Feb. 16, 1996; minimum, 2.6 mg/L, July 14, 1992.

## EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,220 microsiemens, Oct. 17-18; minimum, 351 microsiemens, June 23-24.

pH: Maximum, 8.7 units, Mar. 9-10; minimum, 7.4 units, Mar. 1 and Apr. 24.

WATER TEMPERATURE: Maximum, 25.8°C, Aug. 25, 27; minimum, 0.0°C, many days.

DISSOLVED OXYGEN: Maximum, 13.1 mg/L, Dec. 17, Jan. 10; minimum, 3.7 mg/L, Sept. 15.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	1	NO	OVEMBER		D	ECEMBER			JANUARY	
1 2 3 4 5	884 877 890 908 934	864 858 870 888 908	875 869 877 894 922	750 754 766 775 803	653 734 745 752 766	723 743 754 765 777	1020 1030 1030 1040 1140	993 1010 992 976 1040	1000 1020 1010 1030 1060	916 915 909 901 893	902 898 895 876 879	909 908 902 889 887
6 7 8 9 10	942 975 983 972 983	922 941 923 939 950	928 958 964 954 967	835 883 887 853 628	803 835 852 623 593	815 850 874 808 611	1100 1070 1080 1090 1100	1050 1040 1050 1060 1080	1070 1060 1070 1080 1090	892 887 886 876 882	877 873 848 852 870	886 880 877 865 876
11 12 13 14 15	981 1050 1070 1090 1130	944 968 1030 1060 1070	963 1020 1050 1080 1100	629 638 704 744 805	607 618 637 704 742	621 629 653 729 779	1110 1120 1130 1120 1120	1090 1090 1090 1090 1090	1100 1100 1110 1110 1100	877 888 880 	866 863  	872 881  
16 17 18 19 20	1170 1220 1220 1200 1180	1120 1160 1190 1130 1160	1140 1190 1210 1160 1170	828 834 853 858 894	804 810 829 825 852	813 822 841 838 871	1100 1060 1070 1060 1040	1040 982 1010 1010 996	1070 1030 1040 1040 1020	   896	   865	   880
21 22 23 24 25	1190 1180 1140  889	1180 1140 1080 889 854	1180 1160 1110  870	913 929 912 927 912	891 897 893 894 894	903 909 904 908 904	1010 981 953 943 937	960 949 927 909 916	995 963 942 924 926	889 881 839 864 886	864 822 796 838 835	876 863 816 856 858
26 27 28 29 30 31	855 826 820 814 776 753	821 800 814 744 721 703	833 812 817 785 760 739	921 931 980 1010 1010	901 898 892 975 987	914 911 956 994 1000	937 932 924 922 924 919	914 898 906 903 905 901	927 914 915 914 915 911	899 907 866 864 849 857	853 841 838 843 832 838	874 869 852 856 842 847
MONTH		703		1010	593	821	1140	898	1010			

# 07109500 ARKANSAS RIVER NEAR AVONDALE, CO--Continued

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

		SPE	CIFIC COND	UCTANCE, (	MICROSIE	EMENS/CM (	@ 25 DEG. C),	WATER '	YEAR OCTO	BER 1996 TO	SEPTEME	BER 1997
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	863 874 879 935 959	847 858 864 878 932	855 866 874 910 941	906 940 965 958 964	872 891 924 860 867	892 911 942 885 919	607 592 598 600 597	584 547 565 582 581	595 576 577 591 589	711  675 706 714	 640 664 684	 654 679 698
6 7 8 9 10	1020 1070 	959 1010  	995 1050  	985 1030 977 925 880	956 969 908 864 807	974 987 933 889 858	601 603 611 626 644	587 591 597 608 619	594 598 603 615 632	719   629	691  600 532	710   587
11 12 13 14 15	1080 1080  1090 1110	   1070	   1090	807 708 749 792 786	708 684 686 749 739	749 692 705 781 773	644 657 651 654 652	625 624 626 633 629	636 638 641 646 641	549 541 506 517 522	515 501 486 482 435	535 523 498 507 493
16 17 18 19 20	1110 1090 1100  1110	1080 1050  	1090 1070 	778 772 716 709 671	734 716 679 663 645	747 746 696 692 657	641 636 624 614 596	617 607 593 587 577	629 621 609 598 589	582 558 558 540 540	528 546 523 524 524	543 552 545 532 532
21 22 23 24 25	1050 917 900 899 910	917 869 867 873 881	998 887 883 888 895	652 686  	631 619 	646 660  	607 636 625 846 769	582 585 603 611 640	592 607 613 667 714	557 568 606 593 580	535 552 558 568 572	550 560 573 578 576
26 27 28 29 30 31	908 917 908 	887 890 885 	896 902 896 	  	  		   761	   704	  740	588 591  615 643 625	576   609 601	581   622 614
MONTH												
		JUNE			JULY			UGUST			SEPTEMBE	
1 2 3 4 5	604  553 536 542	542 498 483 490	542 517 513	401 395 402 394 407	389 382 384 382 378	395 388 391 387 390	570 554 531 507 630	521 502 507 468 449	536 528 520 494 492	1160 683 683 696 757	644 643 660 656 594	719 663 670 673 681
6 7 8 9 10	537 615 565 497 699	493 499 491 479 478	511 537 520 484 535	446 447 448 444 442	388 425 429 422 416	410 435 439 431 428	699 591 507 520 652	448 507 483 480 488	548 541 493 495 539	608 643 701 770 801	581 573 569 694 761	591 599 601 710 778
11 12 13 14 15	752 510 466 524 527	510 443 435 445 460	631 462 446 468 502	464 454 431 412 444	414 431 404 392 403	428 444 418 401 415	619 533 645 531 561	503 495 499 489 502	544 509 532 507 519	807 806 786 764 759	779 774 735 717 723	789 787 773 751 739
16 17 18 19 20	460 438 420 412 404	433 419 408 400 376	449 433 414 406 392	447 450 448 422 539	435 438 422 384 384	442 445 436 399 422	550 558 632 583 608	535 528 521 525 568	543 541 560 548 583	736 732 742 731 722	713 688 708 692 681	724 713 722 714 702
21 22 23 24 25	376 370 365 391 381	359 359 351 351 370	369 366 356 364 375	530 416 386 409 382	416 386 375 371 365	459 402 380 383 373	644 724 724 777 793	590 625 697 688 765	608 653 709 712 780	773 788 773 730 667	698 726 677 639 646	724 749 749 662 657
26 27 28 29 30 31	402 411 402 412 406	375 390 391 392 397	384 395 396 400 402	398 490 530 557 995 540	372 395 434 468 486 486	382 426 456 495 607 512	881 724 721 701 789 718	581 606 693 653 642 635	702 683 704 686 674 651	652 659 672 673 812	602 626 632 644 659	622 641 650 659 748
MONTH				995	365	426	881	448	585	1160	569	699

# 07109500 ARKANSAS RIVER NEAR AVONDALE, CO--Continued

pH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DE	CEMBER			JANUARY	
1 2 3 4 5	8.4 8.4 8.5 8.6	7.8 7.7 7.7 7.9 8.0	8.3 8.2 8.2 8.3 8.4	8.5 8.5 8.6 8.5	7.7 7.8 7.9 8.0 7.8	8.2 8.2 8.3 8.3	8.4 8.4 8.3 8.3	7.9 7.8 7.8 7.8 7.9	8.2 8.1 8.1 8.1 8.2	8.4 8.5 8.5 8.5 8.5	8.0 7.9 7.8 7.9 7.8	8.2 8.2 8.2 8.1 8.2
6 7 8 9 10	8.5 8.6 8.5 8.4 8.5	8.0 8.1 8.0 7.7 8.0	8.2 8.4 8.3 8.1 8.2	8.6 8.4 8.5 8.5	7.7 7.8 7.9 7.8 7.8	8.3 8.2 8.2 8.2 8.1	8.4 8.4 8.5 8.5	7.9 8.0 7.9 7.9	8.2 8.2 8.2 8.2 8.1	8.4 8.2 8.4 8.3 8.4	7.9 7.9 7.9 8.0 7.9	8.2 8.0 8.2 8.1 8.2
	8.4 8.5 8.5 8.5 8.6	7.8 8.0 7.9 8.0 8.0	8.2 8.1 8.2 8.2 8.2	8.5 8.6 8.5 8.1 8.3	7.9 7.8 7.7 7.7	8.2 8.2 8.1 8.0 8.1	8.6 8.4 8.6 8.5 8.6	7.9 8.0 7.9 7.9	8.2 8.1 8.3 8.2 8.3	8.3 8.3 8.1 8.1	7.9 7.8 7.8 7.9 7.8	8.1 8.0 7.9 8.0 7.9
	8.5 8.4 8.4 8.5	7.7 7.7 7.7 7.8 7.9	8.1 8.1 8.0 8.0	8.5 8.3 8.3 8.3	7.8 7.7 7.8 7.8 7.8	8.0 8.1 8.1 8.1 8.2	8.4 8.4 8.3 8.2 8.3	8.0 8.0 7.8 7.9	8.2 8.2 8.1 8.1	   8.4	   7.8	   8.1
	8.6 8.1 8.3 8.5 8.4	7.9 7.7 7.7 7.8 7.8	8.2 8.0 8.1 8.3 8.1	8.5 8.4 8.3 8.4 8.4	7.9 7.8 7.9 7.8 7.8	8.2 8.2 8.1 8.1 8.1	8.4 8.5 8.4 8.5 8.5	8.0 7.9 8.0 8.0	8.2 8.2 8.2 8.3 8.3	8.5 8.4 8.4 8.5 8.5	7.8 7.9 7.9 7.7 7.7	8.2 8.2 8.2 8.1 8.3
26 27 28 29 30 31	8.3 8.4 8.3 8.3 8.4	7.7 8.0 7.7 7.7 7.8 7.8	8.1 8.2 8.1 8.0 8.1 8.1	8.3 8.4 8.3 8.4 8.5	7.8 7.8 7.7 7.8 7.8	8.1 8.1 8.0 8.1 8.2	8.5 8.5 8.5 8.4 8.5	7.9 8.0 8.0 8.1 7.9 7.9	8.2 8.2 8.3 8.2 8.2	8.5 8.4 8.4 8.4 8.4	7.9 7.8 7.7 7.7 7.7 7.8	8.2 8.2 8.1 8.3 8.2
MONTH	8.6	7.7	8.2	8.6	7.7	8.1	8.6	7.8	8.2			
MONIA												
MONTH		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5				8.5 8.4 8.4 8.3 8.5		8.0 8.1 8.1 8.0 8.1	8.4 8.3 8.3 8.3 8.1	8.0 7.8 7.6 7.8 7.7	8.2 8.1 8.1 8.1 7.9	8.5 8.5 8.4 8.4	MAY 8.0 7.8 7.7 7.8 7.9	8.3 8.2 8.1 8.1
1 2 3 4	8.4 8.4 8.4 8.3	FEBRUARY 8.1 7.9 7.8 7.8	8.3 8.2 8.1 8.0 8.0	8.5 8.4 8.4 8.3	7.4 7.9 7.8 7.6	8.1 8.1 8.0	8.4 8.3 8.3 8.3	8.0 7.8 7.6 7.8	8.1 8.1 8.1	8.5 8.4 8.4	8.0 7.8 7.7 7.8	8.2 8.1 8.1
1 2 3 4 5 6 7 8 9 10	8.4 8.4 8.3 8.3 8.0 8.3 8.3	8.1 7.9 7.8 7.8 7.8 7.6 7.5 7.5	8.3 8.2 8.1 8.0 8.0 7.8 7.9 7.9 7.9 8.0 7.9	8.5 8.4 8.3 8.5 8.4 8.6 8.6	7.4 7.9 7.8 7.6 7.7 7.7 7.8 7.8 7.9	8.1 8.0 8.1 8.1 8.2 8.1 8.3 8.2	8.4 8.3 8.3 8.3 8.1 8.3 8.3 8.2 8.3	8.0 7.8 7.6 7.8 7.7 7.6 7.8 7.6 7.5	8.1 8.1 7.9 8.0 8.0 8.0 8.0	8.5 8.4 8.4 8.3 8.3 8.3 8.3	8.0 7.8 7.7 7.8 7.9 7.9 7.8 7.7	8.2 8.1 8.1 8.1 8.1 8.1 8.0 8.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	### REBRUARY    8	8.3 8.2 8.1 8.0 8.0 7.8 7.9 7.9 7.9 8.0 7.9	8.5 8.4 8.4 8.3 8.5 8.4 8.6 8.7 8.7 8.7	7.4 7.9 7.8 7.6 7.7 7.7 7.8 7.8 7.9 7.9 8.0 7.7 7.8	8.1 8.1 8.0 8.1 8.1 8.2 8.1 8.3 8.2 8.2 8.1	8.4 8.3 8.3 8.1 8.3 8.2 8.3 8.2 8.4 8.4 8.5	8.0 7.8 7.6 7.8 7.7 7.6 7.8 7.5 7.5 7.5	8.1 8.1 7.9 8.0 8.0 8.0 8.0 8.0 8.3 8.3	8.5 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.0 7.8 7.7 7.8 7.9 7.9 7.8 7.7 7.9 7.7 7.9	8.2 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	FEBRUARY  8.1 7.9 7.8 7.8 7.6 7.5 7.5 7.6 7.6 7.5 7.6 7.5 7.7 7.8	8.3 8.2 8.1 8.0 8.0 7.8 7.9 7.9 7.9 8.0 7.9 8.0 7.9 8.0 8.1 8.1	8.5 8.4 8.4 8.3 8.5 8.6 8.7 8.7 8.7 8.3 8.3 8.3 8.3	7.4 7.9 7.8 7.6 7.7 7.7 7.8 7.9 7.9 8.0 7.7 7.8 7.9 7.8 7.9	8.1 8.1 8.0 8.1 8.1 8.2 8.1 8.3 8.2 8.2 8.1 8.1 8.1 8.1	8.4 8.3 8.3 8.1 8.3 8.2 8.3 8.2 8.4 8.4 8.4 8.5 8.5	8.0 7.8 7.6 7.8 7.7 7.6 7.5 7.5 7.5 7.7 7.8 1 7.9 7.9	8.1 8.1 7.9 8.0 8.0 8.0 8.0 8.2 8.3 8.3 8.4 8.2 8.2	8.5 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.0 7.8 7.7 7.8 7.9 7.9 7.7 7.9 7.7 7.9 7.7 7.9 7.7 7.9	8.2 8.1 8.1 8.1 8.1 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4	FEBRUARY  8.1 7.9 7.8 7.8 7.6 7.5 7.6 7.6 7.5 7.6 7.6 7.7 7.8 7.6 7.7 7.7	8.3 8.2 8.1 8.0 8.0 7.8 7.9 7.9 8.0 7.9 8.0 7.9 8.0 7.9 8.0 8.1 8.1 8.0 8.0	8.5 8.4 8.3 8.5 8.4 8.6 8.7 8.7 8.5 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4	7.4 7.9 7.8 7.6 7.7 7.8 7.9 7.9 7.9 7.8 7.9 7.8 7.9 7.8 7.9 7.9 7.8 7.9	8.1 8.0 8.1 8.1 8.2 8.1 8.3 8.2 8.2 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1	8.4 8.3 8.3 8.1 8.3 8.2 8.3 8.2 8.4 8.4 8.5 8.5 8.4 8.5 8.4 8.5 8.4 8.4 8.4	8.0 7.8 7.6 7.8 7.7 7.6 7.5 7.5 7.7 7.8 8.1 7.9 7.9 7.9 8.1 7.7 8.0 8.0 7.4	8.1 8.1 8.1 7.9 8.0 8.0 8.0 8.0 8.2 8.3 8.4 8.2 8.2 8.2 8.2 8.3	8.5 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.0 7.8 7.7 7.8 7.9 7.9 7.7 7.9 7.7 7.9 7.7 7.9 7.7 7.9 8.0 7.9 8.0 7.9	8.2 8.1 8.1 8.1 8.1 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2

# 07109500 ARKANSAS RIVER NEAR AVONDALE, CO--Continued

pH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

			P-1,	I DIG TITO DE	, , , , , , , , ,		0111111		OCTOBER 1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		A	AUGUST		S	EPTEMBE	?
1 2 3 4 5	8.6 8.5 8.3 8.3	8.1 7.9 7.7 7.7	8.4 8.3 8.2 8.2	8.0 8.1 8.1 8.1	7.9 7.9 7.9 7.9 7.9	8.0 8.0 8.0 8.0	8.2 8.2 8.2 8.2 8.1	8.1 8.0 8.1 8.0 7.9	8.1 8.1 8.1 8.1 7.9	8.2 8.4 8.4 8.4	7.7 8.1 8.2 8.2 8.2	8.0 8.2 8.3 8.3
6 7 8 9 10	8.3 8.3 8.3 8.3	7.9 8.0 8.2 8.2	8.1 8.2 8.2 8.3 8.2	8.1 8.1 8.2 8.2	7.9 7.8 7.9 7.9 8.0	8.0 8.0 8.0 8.1	8.0 8.1 8.2 8.1 8.1	7.8 7.9 8.0 8.0 7.8	7.9 8.0 8.0 8.1 8.0	8.4 8.5 8.5 8.3	8.1 8.2 8.2 8.1 8.2	8.3 8.3 8.3 8.2
11 12 13 14 15	8.2 8.2 8.2 8.2 8.3	8.0 8.0 7.9 7.9 8.0	8.1 8.1 8.2 8.1 8.2	8.2 8.2 8.3 8.4 8.3	7.9 7.9 7.9 7.9 8.0	8.1 8.1 8.1 8.2	8.1 8.1 8.1 8.1	7.9 8.0 7.8 8.0 8.0	8.0 8.0 8.1 8.1	8.2 8.2 8.1 8.1	8.1 8.1 8.0 8.0	8.2 8.2 8.1 8.0 8.1
16 17 18 19 20	8.3 8.3 8.2 8.2	8.2 8.0 8.0 7.9	8.2 8.2 8.1 8.1	8.3 8.4 8.4 8.3	7.9 7.9 8.0 8.0	8.2 8.2 8.2 8.2 8.2	8.1 8.1 8.2 8.1 8.1	8.0 8.0 8.0 8.0	8.1 8.1 8.1 8.1 8.1	8.4 8.4 8.3 8.4	8.1 8.2 8.1 8.1 8.1	8.3 8.3 8.2 8.2
21 22 23 24 25	8.1 8.1 8.1 8.1 8.1	8.0 8.0 8.0 8.0	8.0 8.0 8.0 8.0	8.4 8.4 8.4 8.4	8.0 8.1 8.0 8.1 8.1	8.2 8.2 8.2 8.3 8.3	8.1 8.1 8.1 8.1	8.1 8.0 8.0 8.0 7.9	8.1 8.1 8.1 8.0 8.0	8.2 8.0 8.2 8.2 8.2	7.9 7.9 7.8 7.9 7.9	8.0 7.9 8.0 8.1 8.1
26 27 28 29 30 31	8.1 8.1 8.1 8.1	8.0 8.0 8.0 8.0	8.1 8.1 8.1 8.1	8.4 8.2 8.2 8.1 8.1	8.1 8.0 8.0 8.0 7.9 8.0	8.2 8.1 8.1 8.0 8.0	8.1 8.2 8.2 8.1 8.1	7.9 8.0 8.1 8.0 7.8 8.1	8.0 8.1 8.1 8.1 8.0 8.1	8.2 8.2 8.3 8.3	8.0 8.0 8.1 8.1 8.1	8.1 8.1 8.2 8.2 8.2
MONTH	8.6	7.7	8.1	8.4	7.8	8.1	8.2	7.8	8.1	8.5	7.7	8.2

TEMPERATURE,	WATER	(DEG. C)	WATER	YEAR	OCTOBER	1996 TO	SEPTEMBER	1997
TEMILERATIONE,	*******	(DLG. C)	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 11/11/	OCTOBER	1770 10	DLI ILMDLK	1///

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	VEMBER		DE	ECEMBER			JANUARY	
1 2 3 4 5	20.8 19.0 18.2 20.0 20.6	15.1 14.7 13.2 14.5 14.8	18.0 16.8 15.8 17.2 17.7	12.2 12.0 11.7 13.2 12.2	8.5 8.0 8.4 9.9 8.5	10.2 10.2 10.2 11.5 10.4	6.1 5.4 4.2 4.2 5.5	1.8 2.7 .7 .9 1.1	4.1 4.0 2.7 2.5 3.5	7.1 8.9 8.8 7.0 4.2	4.0 3.8 6.0 4.1 1.7	5.8 6.4 7.4 5.5 2.7
6 7 8 9 10	20.2 19.6 19.2 18.8 18.8	15.1 14.8 13.9 13.3	17.7 17.3 16.6 16.2 16.1	10.3 9.1 9.0 10.3 10.7	7.9 6.1 5.4 6.3 7.0	9.2 7.8 7.3 8.4 9.0	4.9 5.4 5.2 7.7 8.4	3.0 2.2 2.2 3.3 5.1	3.9 3.8 3.8 5.6 6.7	3.9 1.0 2.4 2.4 1.3	.9 .0 .0 .0	2.3 .0 .8 1.0 .7
11 12 13 14 15	19.7 19.7 19.8 19.0 18.7	13.6 13.4 13.5 13.5	16.6 16.7 16.8 16.5 16.4	10.4 10.0 10.5 8.7 7.5	7.2 7.2 6.8 7.5 5.9	9.0 8.6 8.7 7.9 6.6	8.3 7.4 7.2 6.2 4.6	4.9 3.7 3.5 3.2 1.6	6.6 5.7 5.5 4.7 3.1	.0 .0 .0 .0	.0.0.0	.0.0.0
16 17 18 19 20	17.5 14.7 14.3 12.9 13.4	12.2 11.1 7.7 9.4 9.8	14.9 12.7 11.2 11.2	7.3 6.6 9.1 11.2 11.4	5.4 3.3 4.0 6.5 7.6	6.5 5.2 6.7 9.0 9.6	3.8 1.0 .0 .0	1.0 .0 .0 .0	2.3 .1 .0 .0	.1 .0 .1 4.6 6.2	.0 .0 .0 .0	.0 .0 .0 1.0 3.9
21 22 23 24 25	9.8 10.7  13.2 13.1	7.5 4.6 6.7  9.7	8.6 7.8  11.4	9.2 8.2 7.7 7.3 7.4	6.7 6.4 5.2 4.5 4.0	7.8 7.3 6.3 5.8 5.7	2.6 4.2 2.1 2.1 4.2	. 0 . 9 . 3 . 0 . 7	1.2 2.4 1.4 .9 2.3	6.8 5.2 5.9 5.3 4.0	3.5 1.8 2.3 2.2	4.9 3.7 4.0 4.0 2.8
26 27 28 29 30 31	11.8 10.0 12.7 12.0 12.8 11.2	8.7 7.8 8.3 8.7 8.5 8.6	10.5 8.8 10.5 10.5 10.7 9.3	5.7 5.0 5.1 7.1 6.2	3.5 3.1 1.1 3.7 4.0	4.5 3.9 3.4 5.4 5.1	2.0 5.6 6.6 7.2 6.4 7.8	.0 .4 2.8 3.5 3.4 4.3	.8 3.1 4.7 5.3 5.1 6.2	5.2 4.9 4.4 5.6 6.1 8.6	1.4 2.2 .5 3.7 1.8 4.5	3.4 3.2 2.6 4.4 4.1 6.5
MONTH				13.2	1.1	7.6	8.4	.0	3.3	8.9	.0	2.6

# 07109500 ARKANSAS RIVER NEAR AVONDALE, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	7.9 6.7 6.3 5.7 4.5	5.6 4.0 3.4 2.5 2.0	5.6	7.3 8.4 9.3 6.5 7.6	2.4 2.6 4.4 3.4 1.8	4.9 5.7 6.8 4.9 4.8	10.8 8.2 10.9 11.7 8.8	6.5 6.0 5.8 6.6 6.0	8.6 6.5 8.3 9.0 7.2	12.8 13.5 14.5 15.6 16.9	8.9 7.6 7.7 9.3 11.0	11.0 10.3 11.2 12.6 14.0
6 7 8 9 10	3.3 5.7 5.2 6.4 5.5	2.3 1.3 .5 .9	2.7 3.2 2.9 3.6 3.7	9.8 10.7 10.8 10.5 11.9	3.2 4.5 4.7 5.7	6.6 7.7 7.9 8.1 8.5	9.9 11.3 9.3 11.5 9.1	4.5 5.0 5.6 5.2 4.8	7.1 8.1 7.0 8.0 5.9	15.9 15.1 13.6 16.6 16.9	11.3 11.2 9.9 9.9	13.9 13.3 11.3 13.0 14.0
11 12 13 14 15	5.0 6.0 7.0 6.9 8.5	1.5 2.3 2.7 1.4 2.1	3.3 4.3 4.7 4.2 5.3	11.1 10.7 9.9 7.1 7.9	5.2 4.9 5.2 3.7 2.0	8.3 8.1 7.7 4.9 5.0	7.2 9.8 11.2 11.3 13.1	3.7 3.5 4.3 5.0 6.3	5.5 6.5 7.8 8.3 9.7	15.7 16.1 15.8 15.2 16.2	10.6 10.0 10.3 10.6 10.6	13.3 13.1 13.2 13.0 13.5
1.7	9.0 9.7 10.2 10.4 9.0	3.0 5.0 4.7 6.2 4.8		10.3 10.1 10.8 11.5	3.3 5.5 5.4 4.7 5.7	6.9 7.9 8.2 8.3 8.9	14.1 14.4 13.6 14.5 14.0	7.9 6.9 7.4 7.8 7.8	10.8 10.7 10.7 11.0 10.9	16.8 16.0 13.9 12.7 14.5	10.8 11.0 10.8 10.3 9.9	13.9 13.6 12.5 11.5 12.1
22	7.3 6.8 5.6 5.6 6.2	4.0 2.4 2.1 1.0 1.3	5.7 4.8 3.5 3.1 3.7	11.5 11.0 9.8 8.2 9.7	5.8 5.4 5.3 5.0 3.8	8.9 8.3 7.7 6.4 6.6	11.9 12.3 11.2 9.2 7.7	8.0 7.0 7.6 5.9 5.9	10.1 9.6 9.6 7.4 6.7	14.9 14.4 15.8 14.8 15.5	11.0 11.4 11.1 11.0 10.8	12.8 12.8 13.3 12.8 12.9
26 27 28 29 30 31	5.4 4.6 6.6 	2.7 1.5 2.7 	4.0 3.2 4.6 	10.9 11.0 10.9 8.4 10.9	4.2 4.9 6.1 5.5 4.7 5.3	7.6 8.1 8.4 6.5 7.7 8.4	11.8 14.1 14.1 13.9 13.8	6.8 7.8 9.4 10.0 9.2	8.9 10.9 12.1 12.3 11.9	15.6   18.3 19.0	11.0 10.9  12.2 12.6	13.0   15.1 15.8
MONTH	10.4	.5	4.7	11.9	1.8	7.2	14.5	3.5	8.9			
11011111												
		JUNE			JULY			AUGUST			SEPTEMBE	IR.
1 2 3 4 5	17.9 15.2 16.7 16.5 16.5			21.2 20.5 20.9 21.2 21.4			23.4		21.7 20.7 21.5 21.6 19.9		17.9 19.8 19.8 19.8 19.1	21.2 21.7 22.1 21.7 22.0
1 2 3 4	17.9 15.2 16.7 16.5	JUNE 12.4 12.8 12.5 12.9	15.3 13.9 14.3 14.5 14.7 15.6 15.6 15.6 15.1	21.2 20.5 20.9 21.2 21.4 20.7 20.2 22.0 22.3 22.6	JULY  16.5 16.5 16.2 16.4 16.6 16.0 16.4 16.6	18.8 18.4 18.5 18.7	23.4 22.0 24.6 23.7	AUGUST  19.4 19.0 18.5 19.3	21.7 20.7 21.5 21.6 19.9 19.3 19.9 20.8 20.6 19.5	24.4 23.7 24.7 23.7 24.2 23.8 23.8 22.4 23.5	17.9 19.8 19.8 19.1	21.2 21.7 22.1 21.7
1 2 3 4 5 6 7 8 9	17.9 15.2 16.7 16.5 16.5 16.7 17.0 16.5 16.0	JUNE 12.4 12.8 12.5 12.9 13.4 13.6 14.5 14.8 14.5 14.4	15.3 13.9 14.3 14.5 14.7 15.6 15.6 15.6 15.1	21.2 20.5 20.9 21.2 21.4	JULY  16.5 16.5 16.2 16.4 16.6  16.6 16.0 16.4 16.6 16.9	18.8 18.4 18.5 18.7 18.9 18.5 18.2 19.1 19.3	23.4 22.0 24.6 23.7 21.2 20.2 22.1 23.4 22.4	AUGUST  19.4 19.0 18.5 19.3 18.8  18.9 18.1 18.4 18.6 18.9	21.7 20.7 21.5 21.6 19.9	24.4 23.7 24.7 23.7 24.2 23.8 23.8 22.4 23.5	17.9 19.8 19.8 19.1 19.5 19.1 18.5 18.4 18.5 17.9	21.2 21.7 22.1 21.7 22.0 21.6 21.1 21.2 20.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14	17.9 15.2 16.7 16.5 16.5 16.5 16.0 16.9 18.0 17.7 18.1 17.5	JUNE 12.4 12.8 12.5 12.9 13.4 13.6 14.5 14.8 14.5 14.4 15.6 15.2 15.0 15.4	15.3 13.9 14.3 14.5 14.7 15.6 15.6 15.1 15.5 16.4 16.4 16.6	21.2 20.5 20.9 21.2 21.4 20.7 20.2 22.0 22.3 22.6	JULY  16.5 16.5 16.2 16.4 16.6  16.6 16.0 16.4 16.6 16.9	18.8 18.4 18.5 18.7 18.9 18.5 18.2 19.1 19.3	23.4 22.0 24.6 23.7 21.2 20.2 22.1 23.4 22.4 20.5	AUGUST  19.4 19.0 18.5 19.3 18.8  18.9 18.1 18.4 18.6 18.9	21.7 20.7 21.5 21.6 19.9 19.3 19.9 20.8 20.6 19.5	24.4 23.7 24.7 23.7 24.2 23.8 23.8 22.4 23.5	17.9 19.8 19.1 19.5 19.1 18.5 17.9 18.4 18.7 18.7 18.4 19.1 19.0 18.8 18.4	21.2 21.7 22.1 21.7 22.0 21.6 21.1 21.2 20.5 20.6 21.1 21.2 20.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	17.9 15.2 16.7 16.5 16.5 16.5 16.0 16.9 18.0 17.7 17.4 17.2 18.2 19.0	JUNE 12.4 12.8 12.5 12.9 13.4 13.6 14.5 14.8 14.5 14.4 15.6 15.2 15.1 15.6 16.2	15.3 13.9 14.3 14.5 14.7 15.6 15.6 15.1 15.5 16.4 16.4 16.6	21.2 20.5 20.9 21.2 21.4 20.7 20.2 22.0 22.3 22.6 21.3 23.1 23.1 23.4 24.2	JULY  16.5 16.5 16.2 16.4 16.6 16.6 16.9 17.4 16.9 17.0 17.1 17.6	18.8 18.4 18.5 18.7 18.9 18.5 18.2 19.1 19.3 19.6 19.4 19.9 20.0 20.1 20.8 21.0 20.6 20.3 20.1	23.4 22.0 24.6 23.7 21.2 20.2 22.1 23.4 22.4 20.5 23.8 23.3 23.1 23.7	AUGUST  19.4 19.0 18.5 19.3 18.8 18.9 18.1 18.4 18.6 18.9 18.8 18.3 19.2 18.6 18.3 18.5 18.7 19.1 18.4	21.7 20.7 21.5 21.6 19.9 19.3 19.9 20.8 20.6 19.5 20.4 20.3 21.1 20.8 21.0 21.0	24.4 23.7 24.7 23.7 24.2 23.8 23.8 22.4 23.5 23.7 23.6 23.3 23.7 23.8 22.4 23.3	17.9 19.8 19.8 19.1 19.5 19.1 18.5 18.4 18.5 17.9 18.4 19.1 19.0 18.8 18.4 17.7	21.2 21.7 22.1 21.7 22.0 21.6 21.1 21.2 20.5 20.6 21.1 21.2 20.9 21.4 21.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	17.9 15.2 16.7 16.5 16.5 16.5 16.0 16.9 18.0 17.7 18.1 17.5 17.4 17.2 18.2 19.0 19.0 19.2	JUNE  12.4 12.8 12.5 12.9 13.4  13.6 14.5 14.8 14.5 14.4  15.6 15.2 15.0 15.4 15.5  15.2 16.0 16.2 16.4 16.3	15.3 13.9 14.3 14.5 14.7 15.6 15.6 15.1 15.5 16.8 16.4 16.4 16.6 16.4 16.5 17.5 17.7 17.7 17.7	21.2 20.5 20.9 21.2 21.4 20.7 20.2 22.0 22.3 22.6 21.3 23.1 23.1 23.4 24.2 24.0 23.8 22.7 24.0 24.0 24.0 24.0	JULY  16.5 16.5 16.2 16.4 16.6 16.6 16.9 17.4 16.9 17.0 17.1 17.6 17.9 17.5 18.0 17.8 18.2 18.3 18.4	18.8 18.4 18.5 18.7 18.9 18.5 18.2 19.1 19.3 19.6 19.4 19.9 20.0 20.1 20.8 21.0 20.2 20.8 20.9 21.0 20.9	23.4 22.0 24.6 23.7 21.2 20.2 22.1 23.4 22.4 20.5 23.8 23.3 23.1 23.7 22.8 23.8 24.4 23.7 24.4 25.1	AUGUST  19.4 19.0 18.5 19.3 18.8 18.9 18.1 18.4 18.6 18.9 18.8 18.3 19.2 18.6 18.3 19.2 18.6 18.3 19.2 18.6 18.7 19.1 18.4 18.8	21.7 20.7 21.5 21.6 19.9 19.3 19.9 20.8 20.6 19.5 20.4 20.3 21.1 20.8 21.0 21.0 21.0 21.4 21.3 21.7 22.5 22.4	24.4 23.7 24.7 23.7 24.2 23.8 23.8 23.8 22.4 23.5 23.7 23.6 23.3 23.7 23.8 22.4 23.3	17.9 19.8 19.8 19.1 19.5 19.1 18.5 18.4 18.5 17.9 18.4 19.1 19.0 18.8 18.4 17.7 18.1	21.2 21.7 22.1 21.7 22.0 21.6 21.1 21.2 20.5 20.6 21.1 21.2 20.9 21.4 21.5 20.8 20.8 20.8 20.7 20.5

# 07109500 ARKANSAS RIVER NEAR AVONDALE, CO--Continued

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

					,	,, .						
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		1	NOVEMBER		D	ECEMBER			JANUARY	
1 2 3 4 5	7.3 7.5 7.6 7.4 6.6	5.4 5.7 5.6 4.3 4.8	6.3 6.5 6.5 6.1 5.5	8.6	6.7 6.8 6.7 6.9	8.0 7.9 7.9 7.5 7.7	$\frac{12.2}{11.7}$	7.0 7.1 8.1 8.3 5.9	9.4 9.3 10.1 10.1 9.2	10.5 10.7 10.2 10.6 12.3	7.7 6.8 6.9 7.5 8.8	9.1 9.0 8.4 9.0 10.7
6 7 8 9 10	  7.8 8.0	  5.5 5.1	  6.5 6.6	9.1 9.6 10.0 9.5 9.9	7.3 7.9 7.9 7.2 7.3	8.2 8.7 9.0 8.5 8.6	11.0 11.2 11.7 11.3 10.2		8.6 8.8 9.3 8.9 7.5			11.1 10.5 10.4 11.1 11.7
11 12 13 14 15	8.2 7.8  8.8	5.4 4.9 	6.6 6.2 	9.9 9.9 9.9 9.3 10.0	8.0 7.8 7.9 7.9 8.4	8.7 8.8 8.8 8.5 8.9	11.1 11.6 11.5 11.4 12.4	6.6 7.3 8.2 8.7 9.5	8.3 9.0 9.8 9.9	11.1 11.2 11.1 10.9 11.1	9.4	
16 17 18 19 20	8.1 8.8 9.2 9.6 9.4	5.1 5.2 5.7 5.7 5.9	6.4 6.7 7.5 7.3 7.4	9.6 11.1 10.5 9.4 9.3	9.0	8.8 10.1 9.4 8.1 8.0	11.8	9.2 10.3 8.8 8.7 8.5	10.9 11.4 10.2 10.0 10.3	11.0   11.4	8.4   8.7	9.9   10.3
21 22 23 24 25	9.2	6.4 6.0  6.1	7.8 7.7  6.7	9.8 10.1 10.0 11.0 11.0	7.4 7.4 7.6 8.3 8.1	8.3 8.5 8.7 9.3 9.4	11.8 11.4 12.1 12.6 11.8	10.5 10.1	10.6 10.8 11.3 11.2 10.9	10.4 11.5  12.5		9.7   11.2
26 27 28 29 30 31	  8.3 8.6 8.8	   7.3 7.2	   7.9 8.2	11.2 12.2 11.8 10.8 11.3	9.0 7.7	9.7 10.5 10.1 9.0 9.0	10.9		11.5 10.4 9.8 9.6 9.5 9.2	12.0 12.1 12.7 11.1 12.0 10.5	9.6 9.8 9.7 9.3	10.8 11.0 11.5 10.3 10.7 9.4
MONTH				12.2	6.6	8.8	13.1	5.7	9.9			
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	11.0	8.0 8.5 9.2 8.9 9.3	9.0 9.8 10.1 10.1	11.2 11.0 10.7 11.0 11.4	8.4 7.9 8.0 8.3 7.9	9.7 9.6 9.1 9.5 9.9	9.4 10.3 10.4 9.5 9.3		8.6 9.6 9.6 8.6 8.8	8.2 8.4 8.7 8.3 8.0	7.0 7.4 7.1 6.7 6.5	7.6 7.9 7.9 7.6 7.2
6 7 8 9 10	11.5 11.8 11.7	9.1 8.3 8.0	10.3 10.5 10.6 10.4 10.4	10.7 11.0 11.0 11.2 10.9	7.5 7.7 7.1 7.1 7.2	9.0 9.1 8.9 9.1 9.0	10.2 10.4 10.7 10.7	8.6 8.5 8.8 8.2 8.3	9.4 9.5 9.9 9.7 9.7	8.0 7.9 8.3 8.3	6.3 6.8 6.8	7.2 7.2 7.7 7.6 7.5
11 12 13 14 15		8.4 8.3	10.4 9.9 9.6 10.1 9.8	10.8 10.3 9.6 10.1 10.3	7.5 7.4 7.5 7.8 7.9	8.9 9.0 8.4 9.0 9.2	10.9 10.8 10.8 10.7 10.4	8.7 8.2 8.2	10.1 10.0 9.7 9.5 9.1	8.5 8.5 8.3 8.3	7.1 7.1	7.7 7.8 7.7 7.7
16 17 18 19 20	11.8 11.9 11.7 11.7	7.4 7.4 6.4 7.0 7.0	9.9 9.5 8.8 8.5 8.6	10.4 10.4 9.6 9.7 9.7	7.4 7.7 7.7 7.3 7.4	8.9 8.8 8.6 8.7 8.4	10.3 10.2 10.1 9.7 9.8	7.7 7.6 7.4 7.3 7.4	8.9 8.9 8.8 8.6 8.5	8.1 8.0 8.1 8.3 8.2	6.5 6.7 7.0 7.2 6.8	7.5 7.5 7.6 7.8 7.7
21 22 23 24 25	10.6 10.3 10.8 11.0 10.5	7.8 7.3 7.9 8.6 7.7	8.9 9.0 9.5 9.9 9.3	9.7 9.5 9.6 9.5 10.3	7.6 7.2 7.4 8.0 8.1	8.5 8.3 8.6 8.9 9.2	9.4 9.7 9.4 9.1 9.2	7.5 7.6 8.1 7.8 8.5	8.3 8.7 8.8 8.6 8.9	8.1 7.7 8.0 7.9 8.0	6.7 7.1 7.0 7.0 6.6	7.5 7.5 7.5 7.4 7.4
26 27 28 29 30	10.5 10.5 10.6	8.3 8.6 8.3 	9.3 9.5 9.3 	10.1 9.7 9.4 9.6 9.9	7.8 7.6 7.8 8.1 7.9	9.1 8.7 8.6 9.0	9.1 8.7 8.2 8.0 8.1	7.6 7.2 6.6 6.7 6.6	8.6 8.1 7.5 7.3	8.0   7.1	6.9 7.2  6.0	7.4   6.6
31 MONTH	12.1	6.4	9.7	9.9	8.3 7.1	9.0 9.0	10.9	6.6	8.9	7.2	6.0	6.6
1.101111	-4·1	0.7	2.1	11.7	/ • ±	٥.٥	10.9	0.0	0.9		_	

# 07109500 ARKANSAS RIVER NEAR AVONDALE, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		A	UGUST		S	SEPTEMBE:	R
1 2 3 4 5	7.5 7.6 7.6 7.5 7.4	6.2 6.6 7.1 7.0 6.7	6.9 7.2 7.4 7.3 7.2	6.5 6.4 6.8 6.7 6.6	5.4 5.5 5.9 5.7 5.5	5.9 6.0 6.3 6.3	8.6 8.5 8.4 8.0 7.9	7.3 7.5 6.7 6.9 7.3	7.9 7.9 7.6 7.4 7.6	8.1 8.0 7.3 7.6 7.3	5.5 6.5 6.4 5.9	7.1 7.1 6.9 6.9
6 7 8 9 10	7.3 7.4 7.5 7.9	6.5 6.3 6.9 7.1 6.2	7.2 6.9 7.2 7.6 7.2	6.4 6.2 6.5 6.4	5.3 5.5 5.4 5.3 5.5	5.9 5.8 6.0 6.0	7.8 8.2 8.1 7.5 7.5	6.6 7.2 6.5 6.5 6.3	7.6 7.7 7.4 7.0 7.1	7.5 7.4 7.4 7.3 7.3	6.3 6.4 6.2 6.2	6.7 6.9 6.8 6.7 6.7
11 12 13 14 15	7.0 7.5 7.5 7.3 7.1	6.1 6.8 6.7 6.3 6.4	6.7 7.2 7.2 6.9	6.4 6.4 6.7 6.9 6.8	5.5 5.3 5.4 5.7 5.4	6.0 5.9 6.2 6.3	7.4 7.2 7.1 7.3 7.7	6.6 6.3 6.2 6.4 6.5	7.0 6.7 6.6 6.8 7.1	7.0 6.6 6.3 6.0 6.6	5.7 5.5 4.5 4.2 3.7	6.3 6.0 5.6 5.1 5.3
16 17 18 19 20	7.4 7.6 7.6 7.4 7.2	7.1 7.0 6.5 6.8 6.7	7.2 7.3 7.2 7.1 7.0	6.6 6.8 6.7 6.7	5.4 5.4 5.6 5.6 5.7	5.9 6.1 6.1 6.2 6.3	7.7 8.0 8.1 8.3 8.7	6.7 7.0 7.2 7.2 7.2	7.2 7.6 7.6 7.7 7.8	7.1 7.3 7.2 7.3	4.2 6.1 5.6 6.0	6.0 6.7 6.6 6.7
21 22 23 24 25	7.3 7.3 7.2 7.1 7.0	6.7 6.9 6.7 6.4 6.4	7.0 7.1 7.0 6.9	6.6 8.1 7.5 8.1	5.8 6.1 7.0 6.8 7.1	6.2 6.8 7.3 7.5	8.6 8.7 8.3 8.9 8.1	7.2 7.1 7.2 7.1 6.9	7.9 7.7 7.7 7.8 7.5	   8.6	  6.7 6.8	   7.4
26 27 28 29 30 31	6.9 6.8 6.8 6.7 6.3	6.1 6.2 6.1 5.7 5.6	6.6 6.5 6.5 6.3 6.0	8.1 8.4 10.5 9.2 8.6 8.6	7.1 7.4 8.1 7.4 7.6 7.3	7.6 7.9 9.3 8.5 8.1 7.9	8.3 8.1 8.2 8.1 8.1	6.9 7.0 7.1 7.0 6.8 6.3	7.6 7.5 7.5 7.6 7.5	8.4 7.9 8.0 8.0 8.0	6.9 6.6 6.6 6.8 7.0	7.5 7.2 7.3 7.4 7.4
MONTH	7.9	5.6	7.0	10.5	5.3	6.6	8.9	6.2	7.5			

## 07110400 CHICO CREEK NEAR PUEBLO CHEMICAL DEPOT, CO

LOCATION.--Lat 38°21'40", long 104°23'15", in NE¹/4NE¹/4 sec. 36, T.19 S., R.63 W., Pueblo County, Hydrologic Unit 11020004, on right bank, 6.6 mi northwest of the Pueblo Chemical Depot Headquarters, 8.0 mi northeast of Pueblo Memorial Airport, 9.3 mi upstream from mouth, and 10.5 mi northwest of Boone.

DRAINAGE AREA .-- Not determined.

PERIOD OF RECORD .-- May to September 1997.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,982 ft above sea level, from topographic map.

REMARKS.--Records fair except for July 30, which are poor. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period May to September, 3,590 ft³/s, July 30, from rating curve extended above 240 ft³/s on the basis of slope-area measurement of peak flow, gage-height, 9.85 ft, from floodmark; minimum daily, no flow, several days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									.14	.04	3.4	1.7
2								1.0	.14	.02	2.6	.19
3								.92	.12	.02	6.2	.12
4								.75	.10	.02	1.6	.08
5								.65	.10	.02	5.5	.07
3								.03	.10	.02	3.3	.07
6								.71	.12	.02	134	.08
7								.67	.62	.02	21	.06
8								.70	2.5	.03	4.1	.04
9								.64	18	.03	.66	.04
10								.64	5.1	.02	5.3	.03
10								.01	3.1	.02	3.3	.03
11								.71	1.9	.02	1.7	.02
12								.68	.55	.02	.44	.02
13								.50	.73	.01	.11	.01
14								.45	1.4	.01	.10	.01
15								.49	.86	.01	.08	.01
										.01		.01
16								.41	.35	.01	.08	.01
17								.33	.37	.01	.08	.01
18								.28	.26	.00	.07	.01
19								.40	.85	.00	.07	.01
20								.37	.14	.01	.08	.02
20								. 37	.17	.01	.00	.02
21								. 47	.08	.01	.08	.03
22								.81	.06	.01	.08	.01
23								.69	.06	.00	.07	.02
24								1.0	.05	.00	.07	.01
25								.87	1.8	.00	.07	.01
25								.87	1.8	.00	.07	.01
26								.59	78	.00	.07	.01
27								.34	9.5	.00	.07	.01
28								.27	.41	.00	.06	.01
29								.24	.07	.00	7.5	.01
30								.24	.05	399	2.3	.01
								.18		16	.50	
31								.18		10	.50	
TOTAL									124.43	415.36	198.04	2.67
MEAN									4.15	13.4	6.39	.089
MAX									78	399	134	1.7
MIN									. 05	.00	.06	.01
AC-FT									247	824	393	5.3

#### 07116500 HUERFANO RIVER NEAR BOONE, CO

LOCATION.--Lat 38°13'30", long 104°15'37", in NE¹/₄NE¹/₄ sec.18, T.21 S., R.61 W., Pueblo County, Hydrologic Unit 11020006, at right upstream end of bridge on U.S. Highway 50, 0.8 mi upstream from mouth, and 1.6 mi south of Boone.

DRAINAGE AREA.--1,875 mi².

PERIOD OF RECORD .-- January 1922 to September 1925 (monthly and annual discharge only, published in WSP 1311 as "near Nepesta"), October 1979 to current year.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gages. Datum of gage is 4,443.75 ft above sea level. Jan. 1922 to Sept. 1925, at same site, different datum.

REMARKS.--Records fair except estimated daily discharges and discharges above 1000 ft³/s, which are poor. Natural flow of stream affected by diversions for irrigation of about 48,000 acres, and return flow from irrigated areas. Several measurements of water temperature and specific conductance were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

Stati	ons seen	on or tims	•			~~~~						
			DISCHAI	RGE, CUBIC I			ATER YEAR EAN VALUI		1996 TO SEP	TEMBER 19	97	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3.6 2.9 3.3 4.5 3.8	13 14 15 14 14	9.9 9.3 11 12 13	17 16 12 8.0 6.1	4.4 4.4 4.7 5.2	7.8 7.8 7.1 7.0 9.3	11 7.6 6.7 5.3 5.9	48 86 108 114 95	104 66 66 21 5.4	1.3 .73 .49 5.5 5.0	.25 .14 7.3 .00	7.8 4.1 2.9 1.1 6.5
6 7 8 9 10	3.8 3.7 3.2 2.6 3.7	19 21 22 20 22	11 12 14 19 20	6.5 e6.0 e6.0 e5.0 e6.0	6.0 6.1 e6.0 e6.0 5.5	6.7 5.9 6.0 5.6 5.4	6.7 6.0 5.4 5.1 5.7	29 21 22 36 30	8.7 31 125 223 435	1.4 .95 1.0 .77 .48	1.8 .15 .12 .19	8.6 22 19 12 13
11 12 13 14 15	4.6 4.4 3.4 2.9 3.7	24 25 25 27 22	19 18 18 15	e6.0 e7.0 e7.0 e7.0 e7.0	5.4 5.3 5.7 5.5 5.7	5.8 5.8 6.3 6.3	10 18 20 10 6.8	9.6 5.4 4.5 3.1 2.6	299 145 111 76 57	.37 .32 .20 .07	567 769 296 205 74	15 10 3.5 2.0 1.6
16 17 18 19 20	5.8 7.4 6.6 4.1 3.5	9.3 9.4 8.3 8.0 8.1	13 e13 e14 e14 e15	e6.0 e7.0 e10 e15 e20	5.4 5.2 5.5 5.7 6.9	6.8 5.9 8.3 21	16 15 13 9.0 5.3	3.1 2.0 1.7 2.6 3.6	56 28 19 48 61	.00 .00 .00 .00	57 46 38 21 14	.96 1.1 1.2 2.2 6.0
21 22 23 24 25	3.7 4.2 3.7 3.4 3.2	8.0 8.2 8.2 8.4 8.9	e17 e15 e15 e15 e15	19 13 11 6.5 7.7	7.0 7.7 7.8 e8.0 e8.0	9.6 7.0 8.1 7.4 8.6	5.9 8.5 7.8 34 57	10 27 7.5 41 75	17 5.0 4.5 4.0 2.1	103 5.3 1.4 .67	11 9.6 7.8 5.7 4.4	14 18 60 86 45
26 27 28 29 30 31	6.0 12 17 11 12	8.6 8.7 9.0 9.8 9.3	e14 e15 e15 e18 22 21	8.7 5.5 5.3 4.5 4.8 4.8	8.4 e8.0 7.8 	6.1 5.4 5.0 5.5 5.7 5.0	44 31 21 34 39	77 73 68 73 92 106	18 1.8 1.4 1.0 .84	.39 .23 .34 55 1.8 .70	3.3 2.3 1.7 1.5 1.8 2.0	25 30 27 11 21
TOTAL MEAN MAX MIN AC-FT	168.7 5.44 17 2.6 335	427.2 14.2 27 8.0 847	465.2 15.0 22 9.3 923	271.4 8.75 20 4.5 538	171.7 6.13 8.4 4.4 341	229.5 7.40 21 5.0 455	470.7 15.7 57 5.1 934	1276.7 41.2 114 1.7 2530	2040.74 68.0 435 .84 4050	188.18 6.07 103 .00 373	2387.06 77.0 769 .00 4730	477.56 15.9 86 .96 947
				OR WATER		•		•	·			
MEAN MAX (WY) MIN (WY)	8.28 46.7 1985 .000 1990	15.2 46.0 1986 .000 1990	14.4 34.2 1987 .000 1990	20.2 65.1 1984 .000 1990	24.1 64.5 1984 .13 1990	20.4 129 1984 2.12 1990	22.4 94.3 1988 .47 1990	151 1113 1987 .53 1992	110 667 1983 .16 1981	29.2 226 1995 .000 1989	33.4 254 1981 .36 1988	6.75 26.5 1995 .000 1980
SUMMARY	Y STATIST	ICS	FOR	1996 CALE	NDAR YEAR	F	OR 1997 W	ATER YEA	R	WATER	YEARS 1980	- 1997
LOWEST HIGHEST	MEAN F ANNUAL ANNUAL M F DAILY M	OTAL 4178.46 EAN 11.4 ANNUAL MEAN NNUAL MEAN DAILY MEAN 165 Aug 28					8574.6 23.5 769	Aug 1	2	38. 153 5. 2900 a	09 Aug	1987 1991 12 1981
ANNUAL INSTANT ANNUAL 10 PERC 50 PERC	SEVEN-DA TANEOUS P	MEAN 165 Aug 28 EAN a.00 Jul 7 AY MINIMUM PEAK FLOW PEAK STAGE (AC-FT) 8290 EEDS 22 EEDS 8.2					C ₂₂₅₀ 10.1 17010 51 7.8	ı	0	a. d8030 f10. 27520 59 6.	Aug 90 Aug	1 1979 1 1979 12 1981 12 1981

e-Estimated. a-No flow many days most years.

a-No flow many days most years.
b-Also occurred Jul 17-19, and Aug 4.
c-From rating curve extended above 1790 ft³/s.
d-From rating curve extended above 1130 ft³/s. Maximum discharge for period of record, 19400 ft³/s, Aug 1, 1923, gage height,
9.4 ft, datum then in use, from rating curve extended above 1200 ft³/s, on the basis of slope-area measurement of peak flow.
f-From flood marks. Maximum gage height for statistical period, 11.75 ft, Jul 19, 1995.

#### 07119500 APISHAPA RIVER NEAR FOWLER, CO

LOCATION.--Lat 38°05'28", long 103°58'52", in SE¹/4NW¹/4 sec.35, T.22 S., R.59 W, Otero Country, Hydrologic Unit 11020007, near right bank on downstream side of county highway bridge, 3.5 mi southeast of Fowler, and 5.4 mi upstream from mouth. DRAINAGE AREA.--1,125 mi².

PERIOD OF RECORD.--Streamflow records, April 1922 to September 1925, May 1939 to current year. Monthly discharge only for some periods, published in WSP 1311. Water-quality data available, November 1963 to September 1967, January to April 1969.

REVISED RECORDS.--WSP 957: 1939, 1941. WSP 1117: Drainage area. WSP 1241: 1923(M). WRD Colo. 1974: 1973(M).

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gages. Datum of gage is 4,317.05 ft above sea level. Prior to Aug. 29, 1923, at site 3 mi downstream at different datum. Aug. 29, 1923 to Sept. 30, 1925, at present site at different datum. May 27, 1939 to July 30, 1940, at present site at different datum. July 30, 1940 to Sept. 30, 1985, at datum 2.0 ft higher.

REMARKS.--Records good except Dec. 31 to Mar. 21, which are fair, and Oct. 21 to Dec. 30 and estimated daily discharges, which are poor. Waste water from Oxford Farmers Co., and Rocky Ford Highline canals enters river upstream from station. Diversions upstream from station for irrigation of about 4,700 acres. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

Теро			DISCHAR	GE, CUBIC FI			TER YEAR OO EAN VALUES	CTOBER 199	96 TO SEP	TEMBER 199	7	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	12 11 12 12 13	13 18 13 15 21	6.3 5.6 5.0 4.6 5.0	3.4 3.3 3.3 4.0 3.9	2.7 2.5 2.3 2.4 e2.5	e3.3 e3.5 3.2 e3.3 e3.3	14 13 11 9.9	14 18 18 15	20 20 20 20 20	18 16 16 16 16	22 16 19 17 225	12 15 14 14 11
6 7 8 9 10	12 13 15 14 14	19 17 14 14	4.8 4.6 4.3 3.7 3.9	3.7 e4.0 e4.0 e3.9 e3.9	e2.5 e2.5 e2.7 e2.9 e2.7	e3.1 e3.0 2.7 2.6 e2.8	14 9.6 11 9.7 14	28 23 23 16 15	21 76 10 42 16	16 15 14 10 8.9	63 76 46 27 194	9.4 9.8 10 12
11 12 13 14 15	17 18 20 20 17	12 12 22 31 12	4.0 3.7 4.0 4.0	e3.8 e3.8 e3.7 e3.5 e3.5	e3.0 e3.3 e2.9 e2.9 e2.7	3.0 3.0 3.2 e3.3 e5.5	18 2.9 2.8 3.0 3.3	15 13 7.8 10 9.9	19 26 37 24 26	8.4 7.9 4.8 10	246 238 157 43 19	11 10 10 12 13
16 17 18 19 20	17 12 8.9 6.1 7.3	8.3 4.6 5.2 6.1 6.4	4.1 4.1 3.7 3.6 3.4	e3.5 e3.4 e3.4 e3.3 e3.3	e2.9 2.7 2.8 3.4 3.2	e6.0 5.7 e10 e15 e15	6.2 9.5 11 10 11	9.8 9.9 3.0 9.9 7.7	23 23 18 12	9.3 8.3 6.8 9.6	12 11 23 21 21	11 12 15 17 13
21 22 23 24 25	15 23 21 16 18	7.5 7.5 7.8 7.3 6.6	3.7 3.8 3.8 3.6 3.6	3.1 3.1 3.2 3.2 e3.3	e3.5 e3.5 e3.5 e3.5	e17 18 16 18 22	9.6 12 9.0 18 9.4	11 12 12 15 23	11 13 11 9.6 9.5	10 9.5 9.4 8.6 7.9	17 13 18 17 14	4.6 12 20 16 13
26 27 28 29 30 31	20 23 21 21 21 18	6.3 6.5 6.6 6.4 6.5	3.3 3.4 3.2 3.1 3.6	e3.2 e3.3 e3.3 2.9 e2.9 2.6	e3.3 e3.4 	13 14 13 14 14	18 23 28 14 13	27 26 23 22 28 22	10 16 17 19 19	11 11 11 143 25 21	11 8.7 6.6 7.2 7.2 9.2	13 14 17 22 25
TOTAL MEAN MAX MIN AC-FT	488.3 15.8 23 6.1 969	345.6 11.5 31 4.6 685	124.8 4.03 6.3 3.1 248	106.7 3.44 4.0 2.6 212	83.0 2.96 3.5 2.3 165	274.5 8.85 22 2.6 544	349.9 11.7 28 2.8 694	502.0 16.2 28 3.0 996	619.1 20.6 76 9.5 1230	500.4 16.1 143 4.8 993	1624.9 52.4 246 6.6 3220	399.8 13.3 25 4.6 793
STATIST							BY WATER					
MEAN MAX (WY) MIN (WY)	15.4 87.2 1924 1.06 1965	16.9 83.1 1966 .90 1940	11.2 54.7 1966 1.33 1955	7.08 30.4 1966 2.37 1976	9.45 54.0 1971 1.85 1976	11.5 59.6 1924 1.35 1955	21.7 530 1942 .94 1955	42.6 576 1955 1.65 1975	46.2 290 1948 1.13 1954	54.6 306 1958 1.53 1974	65.7 628 1923 1.56 1974	19.7 154 1940 1.07 1956
	Y STATIST	CICS	FOR	1996 CALEN	DAR YEAR	F	FOR 1997 WA	TER YEAR		WATER Y	EARS 1922	- 1997
LOWEST		IEAN		5518.5 15.1 e ₁₂₀	Jul 27		5419.0 14.8 246	Aug 11		27.1 105 5.7 10100	3	1942 1964 19 1955
LOWEST ANNUAL INSTANT	DAILY ME SEVEN-DA FANEOUS P	AN Y MINIMUM PEAK FLOW PEAK STAGE		^a 1.9 2.1	Feb 27 Feb 23		2.3 2.5 391 d5.00	Feb 3 Feb 1 Jul 29		b,c ₈₃₀₀₀ .1	0 Feb 6 Jan	5 1951 30 1951 22 1923
10 PERG 50 PERG	RUNOFF ( CENT EXCE CENT EXCE CENT EXCE	EDS		10950 28 11 3.3			10750 22 11 3.2			19610 44 6.8 1.9		

e-Estimated.

a-Also occurred Feb 28.

b-From slope-area measurement of peak flow, at site 2 mi upstream from present site, caused by failure of Apishapa Dam 31 mi upstream.

c-Peak stage for flood of Aug 22, 1923, unknown.

d-From floodmark.

#### 07119700 ARKANSAS RIVER AT CATLIN DAM NEAR FOWLER, CO

LOCATION.--Lat 38°07'33", long 103°54'41", in NW¹/4NW¹/4 sec.21, T.22 S., R.58 W., Otero County, Hydrologic Unit 11020005, 600 ft downstream from gage on Catlin Canal, on right bank 2.2 mi downstream from diversion dam for Catlin Canal, 2.3 mi downstream from Apishapa River, and 6.0 mi east of Fowler.

DRAINAGE AREA.--10,901 mi², of which 54 mi² is probably noncontributing.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1964 to current year. Statistical summary computed for 1975 to current year.

GAGE.--Water-stage recorders with satellite telemetry on river and on Catlin Canal. Datum of river gage is 4,245.92 ft above sea level. Datum of canal gage is 4,257.87 ft above sea level. Prior to May 13, 1971, river gage at site 2.2 mi upstream at datum 24.08 ft higher, and canal gage at site 1.7 mi upstream at datum 3.26 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Discharge computed by combining discharge of river below canal with that of Catlin Canal. Natural flow of stream affected by transmountain diversions, storage reservoirs, groundwater withdrawals, diversions for irrigation, and return flow from irrigated areas. Flow partly regulated by Pueblo Reservoir (station 07099350) since Jan. 9, 1974.

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

			DISC	HARGE, CUI	BIC FEET PER		WATER YI Y MEAN VA		R 1996 TO S	EPTEMBER 19	<del>)</del> 97	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	364	356	453	381	671	455	1140	e790	1050	1990	921	777
2	337	294	443	387	674	445	1150	e766	1440	1740	836	788
3	379	270	447	392	648	422	1160	e773	2450	1530	868	619
4	386	250	463	391	456	374	1070	e786	3120	1480	839	585
5	396	259	460	394	372	444	960	e809	3500	1440	2010	566
6	373	276	463	379	339	432	947	829	3710	1350	2400	719
7	362	304	479	342	286	400	933	e777	4170	1150	2440	920
8	334	349	508	e340	244	392	946	e820	4860	921	1530	947
9	328	386	514	e330	230	419	984	e898	5080	1030	1310	764
10	345	446	520	e310	227	416	949	e950	5100	1040	1650	439
11	353	518	521	e290	216	419	892	e1030	5450	1040	2660	325
12	363	558	483	e270	226	501	736	e1050	5320	1010	3820	290
13	327	705	452	e280	217	608	868	e1080	5680	998	2610	326
14	281	627	412	e290	190	599	847	e1130	5220	1000	2290	328
15	252	569	376	e310	180	484	813	e1190	5170	904	1930	318
16	249	553	363	e310	184	432	784	e1190	4710	708	1630	296
17	250	478	e340	e310	185	516	733	1330	5000	561	1480	289
18	232	461	e310	e360	156	690	744	1490	5090	484	1440	289
19	240	447	e320	e420	166	777	787	1540	5110	513	1600	315
20	263	458	e340	e460	195	753	849	1390	4710	804	1310	353
21	257	436	e340	e530	210	790	892	e1440	4690	972	1070	483
22	271	413	e330	529	251	803	961	e1420	4850	1070	820	619
23	314	417	e350	514	316	906	1070	1640	4960	1210	603	623
24	334	425	e350	548	353	924	1230	1960	5150	1220	392	836
25	403	444	e350	544	350	901	1420	1850	4770	1200	310	926
26 27 28 29 30 31	488 582 637 558 438 459	441 437 441 450 454	e340 e360 e370 e370 e370	579 598 597 619 629 655	414 437 468 	962 1030 1050 1170 1280 1240	1150 886 e811 e790 e825	1850 1810 1790 1510 1150 960	3900 3510 2920 2560 2220	1170 1040 888 1190 969 1160	315 719 574 491 483 622	851 697 575 513 475
TOTAL	11155	12922	12565	13288	8861	21034	28327	37998	125470	33782	41973	16851
MEAN	360	431	405	429	316	679	944	1226	4182	1090	1354	562
MAX	637	705	521	655	674	1280	1420	1960	5680	1990	3820	947
MIN	232	250	310	270	156	374	733	766	1050	484	310	289
AC-FT	22130	25630	24920	26360	17580	41720	56190	75370	248900	67010	83250	33420
STATIST	TICS OF M	ONTHLY MEA	N DATA 1	FOR WATER	YEARS 1975	- 1997	, BY WATE	ER YEAR (WY	.)			
MEAN	414	424	360	415	407	400	572	1218	2219	1450	998	452
MAX	1234	925	773	854	1249	867	1526	3888	4420	4108	2384	1209
(WY)	1985	1985	1987	1985	1985	1985	1987	1987	1995	1995	1984	1982
MIN	91.0	152	133	175	180	175	86.6	212	433	286	526	84.5
(WY)	1979	1979	1991	1990	1995	1978	1978	1981	1977	1977	1978	1977
SUMMARY	STATIST	ICS	FOR	1996 CALE	ENDAR YEAR	I	FOR 1997	WATER YEAR	•	WATER YE	ARS 1975	- 1997
LOWEST	MEAN ANNUAL ANNUAL M	EAN		271747 742 3690	Tul 10		364226 998 5680	Tun 12		a779 1327 b 351 8480	Tul	1995 1977
HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				539000 1600 507 337	Jul 10 Oct 18 Oct 15		156 179 d ₆₀₃₀	Jun 13 Feb 18 Feb 14 Jun 13 determined		6480 C30 46 f23300 10.81 564100 1690 448 199	Aug Oct Jul	10 1978 14 1977 2 1978 10 1978 10 1978

a-Average discharge for 9 years (water years 1965-73), 636 ft³/s, 460800 acre-ft/yr, prior to completion of Pueblo Dam. b-Maximum daily discharge for period of record, 43200 ft³/s, Jun 18, 1965. c-Also occurred Sep 12, 1974.

d-Maximum combined instantaneous discharge.
f-Maximum discharge and stage for period of record, 43200 ft³/s, Jun 18, 1965, gage height, 7.95 ft, site and datum then in use, from rating curve extended above 13000 ft³/s, on basis of flow-over-dam computation of peak flow.

# 07119700 ARKANSAS RIVER AT CATLIN DAM NEAR FOWLER, CO--Continued WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: May 1990 to current year. WATER TEMPERATURE: May 1990 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Records for daily specific conductance are good, except Mar. 19-25, July 1 to Sept. 30, which are fair, and Oct. 1-9, Oct. 29 to Nov. 13, Nov. 27 to Dec. 3, Dec. 28-31, and Feb. 21-24, which are poor. Records for water temperature are good. Daily data that are not published are either missing or of unacceptable quailty.

#### EXTREMES FOR PERIOD OF RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 1,800 microsiemens, Apr. 27, 1991; minimum, 244 microsiemens, May 25, 1993. WATER TEMPERATURE: Maximum, 30.9°C, Aug. 9, 1992; minimum, 0.0°C, many days during the winter months.

#### EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 1,750 microsiemens, Dec. 30; minimum, 450 microsiemens, June 24-25. WATER TEMPERATURE: Maximum, 28.1°C, July 24; minimum, 0.0°C, many days during winter.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		D	ECEMBER			JANUARY	•
1 2 3 4 5	1230 1170 1210 1220 1240	1170 1140 1150 1200 1200	1200 1160 1180 1210 1220	984 1060 1160 1230 1210	913 982 1050 1150 1170	946 1020 1120 1190 1200	1360 1380 1380  1370	1320 1360  	1340 1370  	1430 1430 1430 1430 1420	1410 1410 1410 1400 1380	1420 1420 1420 1420 1400
6 7 8 9 10	1280 1290 1280 1280 1270	1230 1250 1250 1240 1240	1260 1270 1270 1270 1250	1180 1170 1180 1180 1100	1150 1140 1140 1090 1060	1160 1150 1160 1150 1080	1390 1390 1370 1400 1400	1320 1340 1340 1350 1360	1360 1370 1360 1370 1380	1390 1440 1420 1390 1410	1360 1360 1380 1370 1350	1380 1410 1400 1380 1380
11 12 13 14 15	1270 1260 1270 1300 1330	1240 1210 1210 1250 1280	1250 1250 1240 1270 1300	1070 1030 1020 1030 1130	1020 1010 971 974 1030	1040 1020 998 992 1080	1390 1390 1390 1390 1390	1370 1380 1370 1370 1370	1380 1380 1380 1370 1380	1550 1600 1630 1570 1490	1400 1540 1550 1490 1430	1460 1560 1590 1540 1460
16 17 18 19 20	1320 1320 1310 1350 1370	1290 1260 1270 1310 1340	1300 1290 1290 1330 1350	1200 1200 1230 1190 1180	1110 1150 1110 1100 1110	1180 1190 1160 1140 1150	1390 1450 1540 1670 1560	1360 1370 1420 1540 1460	1380 1410 1470 1580 1530	1440 1390 1430 1330 1310	1380 1310 1280 1260 1250	1410 1360 1330 1300 1290
21 22 23 24 25	1400 1400 1370 1340 1320	1340 1350 1330 1310 1170	1360 1370 1350 1330 1250	1220 1250 1270 1260 1280	1180 1210 1230 1220 1250	1200 1240 1250 1250 1260	1460 1380 1310 1350 1340	1370 1310 1270 1310 1280	1430 1340 1300 1330 1310	1300 1330 1670 1280 1160	1240 1230 1250 1120 1110	1260 1290 1380 1170 1130
26 27 28 29 30 31	1180 1010 946 943 976 964	1010 942 864 866 882 918	1080 959 910 900 944 941	1280 1290 1290 1350 1350	1230 1240 1250 1290 1320	1260 1270 1270 1320 1330	1370 1360 1390 1380 1750 1450	1310 1300 1320 1280 1290 1400	1340 1340 1370 1330 1430 1420	1160 1130 1110 1100 1100	1090 1100 1090 1070 1080 1070	1120 1120 1100 1090 1090
MONTH	1400	864	1210	1350	913	1160				1670	1070	1330

# 07119700 ARKANSAS RIVER AT CATLIN DAM NEAR FOWLER, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2	1100 1100	1080 1070	1090 1090	1130 1130	1110 1110	1120 1120	762 812	561 705	666 776	904		
3 4 5	1090 1170 1240	1070 1090 1150	1080 1140 1200	1150 1170 1090	1110 1090 1030	1120 1120 1060	829 801 771	801 747 742	817 777 755	836 868 936	798 804 866	807 825 880
6 7	1250 1340	1220 1240	1230 1290	1100 1180	1030 1100	1060 1140	798 806	759 740	775 776	952 920	918 908	929 913
8 9 10	1420 1500 1470	1230 1370 1410	1350 1410 1430	1200 1180 1130	1170 1110 1110	1180 1150 1120	751 766 754	735 724 724	744 750 739	912 864 858	854 842 834	883 851 843
11 12 13	1470 1470 1470	1400 1410	1430 1430		1100 988 868	1120 1050 900	780 830 834	736 764 786	762 801 803	856 808 796	802 782 760	829 792 783
14 15	1490 1490	1420 1440	1450 1460	878 1110	846 858	863 935	818 802	776 782	790 793	764 746	738 732	749 739
16 17 18 19 20	1480 1480 1460 1440 1460	1450 1450 1420 1410 1350	1460 1460 1440 1420 1400	1110 900 798 704 739	898 798 704 654 673	932 849 752 675 702	830 824 812 796 778	790 800 788 770 758	804 809 802 786 770	744 738 720 712 702	724 712 688 678 686	733 728 704 692 694
21 22 23 24 25	1360 1310 1260 1190 1220	1300 1250 1130 1070 1060	1330 1280 1200 1100 1160	743 764 765 753 766	717 732 736 730 727	729 750 750 744 747	766 770  	742 738  	753 751  	700 698 694 690 686	682 680 660 632 656	692 688 684 666 675
26 27 28 29	1150 1140 1140 	1100 1100 1090 	1130 1120 1120 	735 701 735 708 835	604 578 682 660 678	654 618 698 677 779	   936	   904	   926	682 680 680 712 768	666 656 660 666 698	675 671 669 684 731
31				864	762	833						
MONTH	1500			1200	578	902						
MONTH	1500			1200		902						
1	1500	JUNE		1200 538	578 JULY 502	902 523		AUGUST 559	641	934	 SEPTEMBE 862	R 901
		JUNE			JULY		1	AUGUST			SEPTEMBE	R
1 2 3 4	 812 722 654	JUNE 722 648 616	 742 685 631	538  	JULY 502 	523  	684 714 747 734	AUGUST 559 669 698 710	641 697 722 721	934 1000 956 964	SEPTEMBE 862 862 924 936	901 946 940 951
1 2 3 4 5 6 7 8 9	812 722 654 622 632 730 820 734	JUNE 722 648 616 598 602 620 680 616	 742 685 631 612 615 660 748 658	538   614 654 672 680 664	JULY  502 500 612 618 660 632	523   559 637 648 673 647	684 714 747 734 726 726 749 756 711	559 669 698 710 690 572 598 695 686	641 697 722 721 713 622 676 727 698	934 1000 956 964 974 986 848 834 924	SEPTEMBE 862 862 924 936 936 848 812 800 808	901 946 940 951 953 946 823 819 841
1 2 3 4 5 6 7 8 9 10 11 12 13 14	 812 722 654 622 632 730 820 734 708 824 790 652 668	JUNE 722 648 616 598 602 620 680 616 602 664 614 558	 742 685 631 612 615 660 748 658 648 740 691 596 586	538   614 654 672 680 664 664 656 654 668 672	JULY  502 500 612 618 660 632 634 636 636 638 626	523   559 637 648 673 647 647 645 645 657 647	684 714 747 734 726 726 749 756 711 1140 908 832 798 836	559 669 698 710 690 572 598 695 686 696 737 658 728 743	641 697 722 721 713 622 676 727 698 817 797 754 754 778	934 1000 956 964 974 986 848 834 924 1090 1190 1190 1210 1180	862 862 924 936 936 848 812 800 808 924 1090  1090 1140	901 946 940 951 953 946 823 819 841 1010 1140  1150
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 812 722 654 622 730 820 734 708 824 790 652 668 658	JUNE 722 648 616 598 602 680 616 602 664 614 558 546 536 554 476 506	742 685 631 612 615 660 748 658 648 740 691 596 586 607	538   614 654 672 680 664 664 656 654 668 672 648 720  770	JULY  502 500 612 618 660 632 634 636 636 638 626 616 644 710	523   559 637 648 673 647 647 645 645 657 647 629	684 714 747 734 726 726 726 711 1140 908 832 798 836 767	559 669 698 710 690 572 598 695 686 696 737 658 743 715	641 697 722 721 713 622 676 727 698 817 797 754 778 747	934 1000 956 964 974 986 848 834 924 1090 1190 1210 1180 1170	862 862 924 936 936 848 812 800 808 924 1090  1090 1140 1150 1170 1160 1070	901 946 940 951 953 946 823 819 841 1010 1140  1150 1150 1160
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	 812 722 654 622 632 730 820 734 708 824 790 652 668 658 655 516 500 478 470 466 490 482	JUNE 722 648 616 598 602 620 680 616 602 664 614 558 546 536 554 476 476 498 476 498 476 450 450 466	742 685 631 612 615 660 748 658 648 740 691 596 586 607 598 552 530 515 506 485 467 462 457 472	538 614 654 672 680 664 664 656 654 668 672 648 720 770 712 729 709 608 609 561	JULY  502 500  612 618 660 632 634  636 638 626 616  644 710 633  618 598 533 534 509	523   559 637 648 673 647 645 645 657 647 629 673  751 656 651 659 585 576 536	684 714 747 734 726 726 749 756 711 1140 908 832 798 836 767 767   832 940 996 	559 669 698 710 690 572 598 695 686 696 737 658 743 715 776 826 930 1120	641 697 722 721 713 622 676 727 698 817 797 754 778 747   797 865 951 	934 1000 956 964 974 986 848 834 924 1090 1190 1210 1180 1170 1190 1230 1160 1110	862 924 936 936 936 848 812 800 808 924 1090 1140 1150 1170 1170 1170 1170 1010 1070 1010	901 946 940 951 953 946 823 819 841 1010 1140  1150 1150 1150 1170 1190 1130 1070
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	812 722 654 622 632 730 820 734 708 824 790 652 668 658 648 652 554 526 516 500 478 470 466 490	JUNE 722 648 616 598 602 620 680 616 602 664 614 558 546 536 554 476 476 506 498 476 450 456 450 466 484	742 685 631 612 615 660 748 658 648 740 691 596 586 607 598 552 530 515 506 485 467 462 457 472 472 496 499	538 614 654 672 680 664 666 656 656 672 648 720 770 712 729 709 608 609 561	JULY  502 500 612 618 660 632 634 636 638 626 616 644 710 633 618 598 533 534 509 499 525 549	523   559 637 648 673 647 645 645 647 629 673  751 656 651 659 585 576 536 517 540 610	684 714 747 734 726 726 749 756 711 1140 908 832 798 836 767 767   832 940 996 	559 669 698 710 690 572 598 695 686 696 737 658 728 743 715 	641 697 722 721 713 622 676 727 698 817 797 754 754 778 747 	934 1000 956 964 974 986 848 834 924 1090 1190 1210 1180 1170 1190 1230 1160 1110	862 924 936 936 848 812 800 808 924 1090 1140 1150 1150 1170 1160 1070 1010	901 946 940 951 953 946 823 819 841 1010 1150 1150 1150 1150 1170 1190 1200 1130 1070
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27	 812 722 654 622 632 734 708 824 790 652 668 658 6554 516 500 478 470 466 490	JUNE 722 648 616 598 602 680 616 602 664 614 558 546 536 554 476 498 476 498 476 450 450 450 466	742 685 631 612 615 660 748 658 648 740 691 596 586 607 598 552 530 515 506 485 467 462 457 472	538 614 654 672 680 664 664 656 654 668 720 770 712 729 709 608 609 561	JULY  502 500  612 618 660 632 634  636 638 626 616  644 710 633  618 598 533 534 509	523  559 637 648 673 647 645 645 657 647 629 673  751 656 651 659 585 576 536 517 540	684 714 747 734 726 726 711 1140 908 832 798 836 767 767  832 940 996 	559 669 698 710 690 572 598 695 686 696 737 658 728 743 715 776 826 930 1120 876	641 697 722 721 713 622 676 727 698 817 797 754 778 747   797 865 951 	934 1000 956 964 974 986 848 834 924 1090 1190 1190 1190 1190 1190 1190 119	862 924 936 936 936 848 812 800 808 924 1090  1090 1140 1150 1170 1160 1070 1010	901 946 940 951 953 946 823 819 841 1010 1140  1150 1150 1160 1170 1190 1200 1130 1070

# 07119700 ARKANSAS RIVER AT CATLIN DAM NEAR FOWLER, CO--Continued

				TEMPERATO	KE, WAII	ER (DEG. C)	, WATER TEA	AR OCTOB	EK 1990 IC	SEPTEMBE	X 1997	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		D	ECEMBER			JANUARY	•
1 2 3 4 5	21.4 19.4 18.8 20.7 21.3	14.2 14.0 11.7 13.1 14.3	17.7 16.5 15.1 16.6 17.6	12.0 12.7 12.2 15.2 13.9		8.3 8.8 9.3 11.6 10.4	5.7 5.4 5.0 4.1 4.2		3.1 3.4 2.6 2.4 2.3	7.5 8.3 9.0 7.1 3.2	3.6 3.4 5.2 3.2	5.5 5.8 7.0 5.3 1.9
6 7 8 9 10	20.7 18.9 19.6 19.4 19.7	14.0 14.1 12.2 12.1 12.1	17.3 16.3 15.8 15.6 15.8	9.4 8.9 9.8 10.3	6.4 4.2 3.4 4.1 5.0	8.3 6.8 6.1 6.8 7.5	4.0 5.3 5.5 7.7 9.3	2.3 .9 1.3 2.4 5.5	3.2 2.9 3.5 4.9 6.9	4.3 .5 .3 .9	.2 .1 .1 .1	1.6 .2 .2 .3 .2
11 12 13 14 15	20.6 20.6 20.9 20.0 20.1	12.5 12.7 12.9 12.4 12.3	16.4 16.6 16.8 16.1 16.0	9.6 8.5 8.9 7.4 7.1	5.2 5.3 5.1 6.3 5.6	7.2 6.6 6.9 6.9	8.1 7.0 6.6 5.7 2.8	4.9 2.7 2.3 1.7	6.3 4.8 4.4 3.4	.9 .9 .5 .6		.5 .3 .3 .3
16 17 18 19 20	19.2 14.8 15.2 13.5 14.8	11.1 9.4 5.9 9.0 8.6	14.8 12.0 10.4 11.1 11.1	5.7 5.0 7.8 11.7 12.2	3.3 1.5 2.9 5.7 7.7	5.0 3.4 5.3 8.6 9.7	1.4 .0 .0 .0	.0.0.0	.3 .0 .0 .0	.3 .2 .6 .6	. 0 . 0 . 0 . 0	.1 .0 .3 .2
21 22 23 24 25	9.2 11.8 12.3 13.7 12.8	5.4 2.1 5.2 6.5 8.3	7.7 6.9 8.8 10.1 10.6	8.7 9.0 7.6 5.9 6.7	6.7 6.3 3.4 2.0 2.4	7.5 7.4 5.6 3.9 4.4	.0 .0 .0 .0	.0.0.0	.0.0.0.0.0	1.3 2.2 3.9 4.2 2.7	.0 .1 .0 .3	.4 .7 1.2 2.1 1.6
26 27 28 29 30 31	11.1 7.8 11.7 11.3 13.0 8.2	6.8 5.5 5.8 6.8 6.5	8.8 6.8 8.5 9.2 9.4 6.7	4.2 5.2 3.5 6.9 5.9	2.3 1.8 .1 2.7 2.9	3.2 3.0 1.9 4.4 4.4	.0 .1 .2 2.1 4.2 7.8	.0 .0 .0 .0 .0	.0 .0 .4 2.0 5.3	4.1 2.7 3.9 6.4 6.3 8.3	.3 .1 .1 3.2 1.5 3.9	2.1 1.6 1.7 4.4 4.0 6.1
MONTH	21.4	2.1	12.9	15.2	.1	6.5	9.3	.0	2.0	9.0	.0	1.8
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	9.2 7.6 8.1 6.9 6.1	6.7 5.1 3.8 1.9	7.7 6.5 5.7 4.1 3.3	9.2 10.3 11.8 9.0 9.3	3.1 3.1 5.0 3.9 2.1	5.8 6.6 8.0 6.2 5.6	13.5 11.5 10.8 14.1 11.6	9.7 7.3 6.3 9.2 7.3	11.6 8.8 8.7 11.5 9.7	16.2 13.7 15.9 18.3 20.2	12.3 11.3 9.9 12.5 14.3	14.2 12.6 12.9 15.4 17.1
6 7 8 9 10	2.9 5.3 6.1 8.7 7.3	1.2 .3 .0 1.4 .8	2.0 2.5 2.6 4.6 4.3	10.9 12.4 13.4 13.0 13.9	3.7 5.1 6.1 7.0 6.1	7.3 8.7 9.7 9.9 10.0	10.1 12.8 11.1 11.9 10.0	4.9 7.2 6.6 5.3 2.9	7.7 10.2 8.5 9.2 6.2	22.1 19.1 16.3 18.4 20.3	15.2 14.8 12.6 11.5 14.2	18.2 16.9 14.1 14.8 17.3
11 12 13 14 15	6.5 8.5 7.2 8.6 10.3	1.5 2.1 1.3 .3 1.6	4.0 4.8 3.9 4.2 5.6	14.3 14.8 12.0 8.1 7.9	8.3 8.1 4.0	10.7 11.4 10.3 6.3 4.7	7.4 8.5 11.3 13.1 15.7	2.1 1.4 5.2 7.5 9.2	4.2 4.9 8.1 10.4 12.3	19.3 19.1 18.8 19.2 20.3	15.3 13.6 14.4 14.8 14.8	17.3 16.4 16.9 17.1 17.7
16 17 18 19 20	11.2 12.1 13.4 12.0 10.1	2.6 5.3 4.8 7.3 4.8	6.7 8.2 8.7 9.4 7.1	11.5 12.3 13.9 14.1 15.3	3.4 7.9 8.5 8.4 10.1	7.5 9.9 11.2 11.3 12.7	18.1 19.2 17.8 19.5 19.7	11.7 12.0 12.8 12.9 14.3	14.6 15.5 15.5 16.1 17.0	21.5 21.3 19.4 16.6 18.2	15.9 16.8 16.1 13.6 12.9	18.8 19.3 17.6 15.0
21 22 23 24 25	7.9 8.4 4.9 5.6 7.8	3.4 .8 .1 .0	5.2 4.5 2.4 2.3 4.3	14.1 14.6 12.4 11.4 10.9	10.6 9.2 9.8 7.7 5.4	12.4 11.9 11.2 9.7 8.2	17.4 15.9 15.0	13.9 10.7 11.6	15.7 13.3 13.4 	19.1 18.5 19.8 18.8 18.6	15.7 15.3 15.2 15.2 14.0	17.4 16.9 17.5 17.1 16.2
26 27 28 29 30 31	6.6 5.0 8.2 	2.6 1.0 2.8 	4.3 3.3 5.2 	12.2 12.6 12.8 11.0 10.9 12.8	6.7 8.7 8.4 7.4 5.5 8.0	9.7 10.8 10.7 8.9 8.3 10.6	  18.2	   13.4	   15.5	18.7 17.3 19.2 18.8 21.7 22.3	14.5 14.1 14.0 15.7 16.4 17.8	16.6 15.9 16.5 17.5 18.7 19.7
MONTH	13.4	.0	4.9	15.3	1.3	9.2				22.3	9.9	16.6

# 07119700 ARKANSAS RIVER AT CATLIN DAM NEAR FOWLER, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	IR.
1 2 3 4 5	23.7 22.2 19.9 19.3 18.5	19.6 18.0 17.0 16.7 16.3	21.5 19.8 18.5 18.0 17.5	23.6	19.0   	21.4   	27.2 26.6 27.3 27.6 23.2	22.3 22.2 21.3 22.6 19.3	24.5 24.0 24.1 24.7 20.4	25.8 23.5 25.1 25.5 26.4	19.7 21.2 19.9 19.9 20.5	22.4 22.2 22.1 22.4 23.2
6 7 8 9 10	18.0 18.7 18.1 17.9 18.9	16.6 17.1 17.0 16.8 16.2	17.3 17.9 17.6 17.3 17.3	24.1 25.0 25.0	  19.1 20.4	  21.9 22.7	20.2 22.2 24.7 24.6 22.6	19.6 18.5 19.6 21.0 20.0	19.9 20.2 22.1 22.8 21.0	25.3 24.9 24.7 22.6 24.6	20.6 19.9 19.7 18.9 17.0	23.0 22.4 22.2 20.2 20.4
11 12 13 14 15	21.2 21.1 19.9 19.8 19.4	17.8 18.9 17.6 18.2 17.5	19.3 19.7 18.7 19.1 18.5	25.1 25.1 25.4 26.1	20.4 19.9 19.7 20.1	22.6 22.7 22.6 23.0	22.1 21.8 24.6 24.2 24.6	19.3 16.9 20.8 20.5 20.2	20.5 20.5 22.4 22.4 22.5	25.2 25.0 25.3 25.7 25.4	17.8 18.2 18.0 18.7 18.3	21.2 21.3 21.3 21.9 21.7
16 17 18 19 20	18.9 20.1 21.4 21.4 21.7	17.3 17.1 18.6 19.8 19.3	18.0 18.4 20.0 20.8 20.6	27.7 27.6 26.4	  21.4 21.1	23.9 23.7	24.4 22.6 24.6 24.7 25.7	20.3 20.2 20.1 20.9 21.0	22.4 21.4 22.1 22.8 23.1	24.2 23.7 24.4 23.0 18.3	19.2 17.2 17.0 17.4 13.5	21.4 20.2 20.4 19.9 15.3
21 22 23 24 25	22.0 21.9 21.7 21.6 21.4	20.1 20.2 19.3 19.8 19.7	21.1 21.1 20.6 20.8 20.6	26.9 27.2 27.4 28.1 27.6	21.6 22.0 22.3 22.6 22.9	24.1 24.5 24.9 25.3 25.1	26.2 26.6 27.8 	20.7 21.1 21.4 	23.4 23.8 24.3 	16.0 20.5 18.3 19.2 20.0	12.9 14.9 16.4 15.7 16.1	14.2 17.3 17.3 17.3
26 27 28 29 30 31	21.1 22.2 22.6 23.2 23.8	18.8 19.0 18.5 19.4 19.2	20.0 20.5 20.7 21.3 21.5	27.5 27.3 26.1 24.5 26.8 25.5	22.2 22.3 21.5 19.5 21.6 21.7	24.7 24.5 23.3 22.3 23.8 23.6	26.9 27.4 28.0 27.0 23.7 24.6	21.6 22.6 21.3 20.1 19.8	24.4 25.2 23.8 21.9 21.9	21.4 22.5  	17.0 18.2  	19.0 20.2  
MONTH	23.8	16.2	19.5									

#### 07121500 TIMPAS CREEK AT MOUTH, NEAR SWINK, CO

LOCATION.--Lat 38°00'11", long 103°39'20", in NW1/4SW1/4 sec.35, T.23 S., R.56 W., Otero County, Hydrologic Unit 11020005, on left bank at downstream side (revised) of 23rd Rd. Bridge, 1.7 mi southwest of Swink, and 2.9 mi upstream from mouth.

DRAINAGE AREA.--496 mi².

PERIOD OF RECORD.--January 1922 to September 1925, March 1968 to current year.

REVISED RECORDS.--WDR CO 76-1: 1975.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,120 ft above sea level, from topographic map. Jan. 1922 to Sept. 1925 at several sites downstream at different datum. Mar. 1968 to May 29, 1975, at site 140 ft downstream at datum 0.13 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by minor diversions upstream from station for irrigation, water imported from Arkansas River and Crooked Arroyo for irrigation upstream from station, and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1922, 21,400 ft³/s, June 17, 1965.

		~					TER YEAR OO				17, 1700	
			DISCHAR	зь, соыс і			EAN VALUES	JOBER 199	0 TO SET	LEMBER 1997		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	122 114 116 114 116	164 166 169 157 143	28 27 26 25 24	20 19 19 19	17 17 17 16 16	15 14 14 14 22	35 35 40 41 49	104 115 76 102 98	61 69 65 68 72	66 63 60 60 70	e75 e75 e70 e340 e300	98 94 70 68 67
6 7 8 9 10	120 110 103 106 103	135 135 133 131 128	25 25 25 24 24	19 19 19 19	17 16 16 16 16	99 95 93 84 75	78 49 46 45 66	84 93 67 60 59	75 193 139 164 175	76 77 71 72 70	e250 e225 e180 151 247	76 140 116 117 100
11 12 13 14 15	108 115 120 108 100	116 119 126 142 131	22 22 22 22 21	19 19 18 18	16 15 15 15	75 76 88 74 68	140 150 74 53 44	67 72 65 64 64	176 170 170 180 161	67 63 71 70 68	e566 e1270 e100 e70 e65	86 97 90 88 65
16 17 18 19 20	106 99 107 112 119	82 79 64 45 40	22 22 22 22 21	18 18 18 17	15 14 14 15 15	40 39 51 52 46	44 41 37 36 38	59 59 63 69 62	144 113 79 69 73	63 63 63 67 73	e70 e80 e85 e80 e70	61 64 64 66 64
21 22 23 24 25	115 117 126 133 112	38 37 35 35 33	21 21 21 21 21	17 17 17 17 17	15 15 15 16 15	37 45 40 44 46	39 42 41 121 170	73 79 72 74 75	67 68 63 62 66	74 69 68 66 63	72 76 74 72 76	68 58 54 51 53
26 27 28 29 30 31	173 222 241 232 193 187	32 31 30 30 29	21 20 20 20 20 20	17 17 17 17 17	15 15 14 	42 40 39 39 44 48	133 118 102 91 95	80 72 64 64 80 69	68 65 71 78 75	72 70 79 223 e137 e100	72 68 75 78 74 84	55 67 98 92 76
TOTAL MEAN MAX MIN AC-FT	4069 131 241 99 8070	2735 91.2 169 29 5420	697 22.5 28 20 1380	559 18.0 20 17 1110	433 15.5 17 14 859	1598 51.5 99 14 3170	2093 69.8 170 35 4150 BY WATER Y	2304 74.3 115 59 4570	3099 103 193 61 6150	2374 76.6 223 60 4710	5190 167 1270 65 10290	2363 78.8 140 51 4690
MEAN MAX (WY) MIN (WY)	89.8 265 1924 27.4 1979	78.8 210 1924 30.4 1992	36.2 109 1971 9.80 1979	24.0 60.4 1923 7.87 1975	32.3 84.6 1924 11.4 1976	61.9 201 1924 24.8 1981	63.5 170 1924 11.0 1978	74.5 187 1995 14.0 1981	83.9 318 1923 24.5 1981	74.0 200 1923 18.1 1974	87.2 401 1923 15.8 1974	73.1 159 1986 15.7 1974
SUMMARY	STATISTI	:CS	FOR 1	.996 CALEN	IDAR YEAR	F	OR 1997 WAT	TER YEAR		WATER YE	ARS 1922	- 1997
SUMMARY STATISTICS  ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				28431 77.7 546 a14 15 56390 131 67 18	Aug 28 Feb 14 Feb 9		27514 75.4 e1270 b14 14 c3700 f16.10 54570 138 67 17	Aug 12 Feb 17 Feb 26 Aug 11 Aug 11		65.2 130 25.2 2670 3.3 5.7 d ₁₂₃₀₀ f ₂₁ .11 47230 127 49 15	Aug Dec Jul	1923 1975 17 1923 7 1977 16 1978 10 1978 10 1978

e-Estimated.

a-Also occurred Feb 15. b-Also occurred Feb 18, 28, and Mar 2-4. c-From rating curve extended above 1800 ft³/s, on basis of slope-area measurement of peak flow. d-From rating curve extended above 250 ft³/s, on basis of contracted-opening measurement of peak flow.

f-From floodmark.

#### 07123000 ARKANSAS RIVER AT LA JUNTA, CO

LOCATION.--Lat 37°59'26", long 103°31'55", in SE1/4NE1/4 sec.2, T.24 S., R.55 W., Otero County, Hydrologic Unit 11020005, on right bank at upstream side of bridge on State Highway 109 in La Junta, and 450 ft upstream from King Arroyo.

DRAINAGE AREA.--12,210 mi², of which 115 mi² is probably noncontributing.

PERIOD OF RECORD.--May to August 1889, September 1893 to December 1895 (gage heights, discharge measurements, and flood data only), April to October 1903, June to November 1908 (gage heights and discharge measurements only), April 1912 to current year. Monthly discharge only for some periods, published in WSP 1311. Published as "near La Junta" in 1903. Statistical summary computed for 1975 to current year.

REVISED RECORDS.--WSP 1341: Drainage area. WSP 1731: 1922.

GAGE.--Water-stage recorder with satellite telemetry, and nonrecording gage read twice daily. Datum of gage is 4,039.60 ft above sea level. See WSP 1711 or 1731 for history of changes prior to June 13, 1940. June 13, 1940 to June 6, 1967, water-stage recorder at site 300 ft upstream at present datum.

REMARKS .-- Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of about 400,000 acres, and return flow from irrigated areas. Flow partly regulated by Pueblo Reservoir (station 07099350) since Jan. 9, 1974.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES DAY NOV DEC APR JUL AUG SEP OCT JAN FEB MAR MAY JUN e2200 e2020 e2300 e2500 e2900 e3700 e2000 e4500 e800 e4800 e500 e3800 e1300 75 e4200 e3620 e3700 e3800 e3200 e2490e2600 e3300 e1830 e2450 e2000 5.8 e2300 e2100 e1450 e844 2.0 e2550 e582 e2800 e550 2.1 e2900 e264 e2900 e250 e2750 e160 e2550 e106 e2400 e90 e2000 e1600 e1200 e700 TOTAL MEAN 83.1 74.8 68.7 MAX MIN AC-FT STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 1997, BY WATER YEAR (WY) MEAN 1987 MAX (WY) 6.37 6.67 (WY) FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR SUMMARY STATISTICS WATER YEARS 1975 - 1997 ANNUAL TOTAL a₂₈₉ ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN b₉790 e₄₈₀₀ HIGHEST DAILY MEAN Jun 10 Jul 13 Aug 22 1984 ^C2.5 Tul 17 LOWEST DATLY MEAN 2.4 Aug 12 Dec ANNUAL SEVEN-DAY MINIMUM 3.0 Aug 30 Auq Dec d₁₈₀₀₀ Aug 22 1984 INSTANTANEOUS PEAK FLOW Not determined ^f11.09 INSTANTANEOUS PEAK STAGE Aug 22 1984 Not determined ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS PERCENT EXCEEDS 90 PERCENT EXCEEDS

e-Estimated

e-Estimated.
a-Average discharge for 61 years (water years 1913-73), 244 ft³/s; 176800 acre-ft/yr, prior to completion of Pueblo Dam.
b-Maximum daily discharge for period of record, 61100 ft³/s, Jun 4, 1921.
c-Minimum daily discharge for period of record, no flow, Jan 20-22 and Mar 20-22, 1915.
d-Maximum discharge and stage for period of record, 200000 ft³/s, Jun 4, 1921, gage height, 18.40 ft, site and datum then in use, from rating curve extended above 15000 ft³/s, on basis of slope-area measurement of peak flow.
f-Maximum gage height for statistical period, 12.12 ft, Jun 4, 1995.

#### 07124000 ARKANSAS RIVER AT LAS ANIMAS, CO

LOCATION.--Lat 38°04'51", long 103°13'09", in SE¹/₄NE¹/₄ sec.3, T.23 S., R.52 W., Bent County, Hydrologic Unit 11020009, on right bank at upstream side of bridge on U.S. Highway 50, 1.1 mi north of courthouse in Las Animas, and 4.2 mi upstream from Purgatoire River.

DRAINAGE AREA.--14,417 mi², of which 441 mi² are probably noncontributing.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May to November 1898 (gage heights only), August to November 1909 (gage heights and discharge measurements only), May 1939 to current year. Statistical summary computed for 1975 to current year.

REVISED RECORDS.--WSP 1341: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 3,883.97 ft above sea level. May 13 to Nov. 12, 1898, and Aug. 1 to Nov. 10, 1909, nonrecording gages near present site at different datums. May 23, 1939, to Apr. 27, 1967, water-stage recorder at site 0.4 mi downstream at datum 9.00 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of about 412,000 acres, and return flow from irrigated areas. Flow partly regulated by Pueblo Reservoir (station 07099350) since Jan. 9, 1974.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES NOV DAY OCT DEC FEB MAR APR JUN JUL AUG SEP JAN MAY 72 e150 e140 e130 e130 e130e140 e140 71 e150 e150 e130e160e180 e140 73 22 e145 e182 e150 e160 25 155 80 29 217 115 122 ---TOTAL MEAN 73.8 MAX MTN AC-FT STATISTICS OF MONTHLY MEAN DATA FOR WATER **YEARS 1975** 1997, BY WATER YEAR (WY) MEAN MAX (WY) MIN 6.05 8.40 8.45 10.8 9.12 (WY) SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1975 - 1997 ANNUAL TOTAL a₂₈₂ ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN 84 1 b₅₉₆₀ Jul 21 1995 HIGHEST DAILY MEAN Jul 14 Aug 13 LOWEST DATLY MEAN Apr 20 Nov 30 1974 May ANNUAL SEVEN-DAY MINIMUM 4.1 Sep Apr Apr d₇₁₅₀ f_{7.38} INSTANTANEOUS PEAK FLOW Aug 24 1984 Aug INSTANTANEOUS PEAK STAGE 9.08 Aug 24 1984 Aug 13 ANNUAL RUNOFF (AC-FT)
10 PERCENT EXCEEDS
50 PERCENT EXCEEDS 90 PERCENT EXCEEDS

e-Estimated

e-ESCIMATEG.
a-Average discharge for 34 years (water years 1940-73), 203 ft³/s; 147100 acre-ft/yr, prior to completion of Pueblo Dam. b-Maximum daily discharge for period of record, 25800 ft³/s, May 20, 1955.
c-Minimum daily discharge for period of record, 0.9 ft³/s, Jul 31, Aug 1 and 3, 1964.
d-Maximum discharge and stage for period of record, 44000 ft³/s, May 20, 1955, gage height, 15.03 ft, site and datum then in use, from rating curve extended above 24000 ft³/s, on basis of slope-area measurement of peak flow..
f-Maximum gage height for statistical period, 9.08 ft, Aug 13, 1997.

# 07124000 ARKANSAS RIVER AT LAS ANIMAS, CO--Continued WATER-QUALITY RECORDS

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 with satellite telemetry.

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

## EXTREMES FOR PERIOD OF RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 7,950 microsiemens, Jan. 22, 1986; minimum, 310 microsiemens, July 21, 1990. WATER TEMPERATURE: Maximum, 34.5°C, Aug. 18, 1986; minimum, 0.0°C, many days during most winters.

#### EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 5,840 microsiemens, May 14; minimum, 593 microsiemens, Aug. 7. WATER TEMPERATURE: Maximum, 32.2°C, July 23; minimum, 0.0°C, many days during winter.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		D	ECEMBER			JANUARY	•
1 2 3 4 5	3160 3460 3570 3520 3290	2820 3120 3460 3280 3210	3030 3260 3520 3420 3250	2420 2660 2840 3040 3230	2240 2370 2620 2830 3040	2360 2480 2720 2910 3130	2810 2800 2880 2860 2900	2750 2750 2730 2780 2750	2780 2780 2790 2820 2810	2790 2750 2770 2820 2800	2720 2720 2700 2740 2740	2760 2730 2730 2780 2770
6 7 8 9 10	3370 3640 3720 3770 3820	3170 3360 3590 3600 3610	3280 3510 3660 3690 3750	3290 3470 3430 3380 3290	3100 3290 3310 3260 3180	3180 3380 3380 3320 3240	2890 2840 2830 2830 2840	2790 2760 2790 2780 2780	2840 2800 2810 2810 2810	2760 2810 2870 2880	2740 2670 2700 2620	2750 2740 2780 2750
11 12 13 14 15	3810 3850 3810 3790 3860	3730 3730 3760 3690 3700	3780 3810 3790 3740 3750	3300 3280 3240 3170 2650	3190 3190 3140 2620 1560	3240 3240 3200 2940 2270	2850 2880 2860 2860 2910	2810 2840 2840 2820 2830	2830 2860 2850 2840 2860	2250 2240 2180	2050 2110 2050	2200 2180 2130
16 17 18 19 20	3880 3940 3930 3840 3840	3760 3790 3730 3750 3540	3810 3860 3840 3780 3660	2090 2320 2360 2430 2500	1570 2090 2280 2290 2380	1790 2250 2320 2370 2440	2880 2890 3420 3490 3240	2810 2770 2990 3300 2970	2840 2830 3200 3400 3100	2130 2180 2240 	2030 2070 2120 	2090 2130 2180 
21 22 23 24 25	3700 3700 3560 3510 3270	3560 3520 3390 3200 3040	3650 3610 3440 3380 3180	2560 2640 2680 2720 2710	2490 2550 2630 2670 2690	2530 2620 2660 2700 2700	2990 2740 2770 2970 2900	2710 2640 2680 2700 2740	2860 2690 2720 2840 2820	2520 2630 2650 2740 2710	2270 2460 2560 2610 2570	2400 2520 2610 2670 2660
26 27 28 29 30 31	3090 3100 3060 2250 1940 2240	2920 2980 2250 1930 1770 1920	3030 3050 2780 2080 1850 2020	2740 2720 2750 2760 2820	2690 2680 2690 2710 2720	2720 2710 2720 2740 2760	2970 2870 2810 2760 2780 2790	2630 2750 2670 2620 2750 2750	2760 2810 2710 2680 2760 2770	2700 2720 2820 2770 2720 2640	2480 2580 2610 2670 2630 2450	2570 2660 2710 2720 2690 2560
MONTH	3940	1770	3360	3470	1560	2770	3490	2620	2840			

# 07124000 ARKANSAS RIVER AT LAS ANIMAS, CO--Continued

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

				Decimies	, (MICKOD	LLIVILLI (D) CIVI	e 23 DEG. (	<i>2)</i> ,	TE/III OC	OBER 1996 I	O DEI TEN	ibbit 1,,,,
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	2690 2450 1560 1320 1260	2450 1540 1230 1140 1160	2640 1740 1490 1220 1200	1650 1630 1640 1670 1710	1600 1550 1550 1580 1650	1620 1590 1600 1640 1680	3190 3170 3230 3320 3320	2920 3120 3060 3060 3270	3080 3150 3160 3200 3290	4660 4270 4730 4940 3980	3780 3980 3330 3980 2760	4310 4110 4090 4440 3040
6 7 8 9 10	1300   	1200   	1250   	2020 2450 2010 2000 2050	1680 1950 1910 1910 1960	1800 2090 1940 1950 2010	3410 3550 3590 3960 4070	3270 3270 3280 3590 3830	3330 3420 3440 3770 3980	4400 4510 4820 5290 4920	3140 3730 4200 4160 4440	3920 4250 4560 4810 4740
11 12 13 14 15	2150 2180 2170 2230 2200	2120 2140 2130 2140 2160	2140 2160 2150 2180 2190	2050 2050 2140 2140 2690	1980 2000 2030 2000 2020	2020 2030 2060 2050 2280	4050 4380 4340 4420 4410	3850 3960 3930 4260 4250	3980 4150 4210 4350 4320	4880 5130 4800 5840 5110	3790 4220 3530 4340 4640	4190 4830 4040 5160 4910
16 17 18 19 20	2250 2250 2240 2260 2310	2190 2210 2200 2210 2250	2230 2230 2220 2230 2280	3100 3130  3300 3560	2690 3090  3010 3150	2950 3110  3140 3410	4620 4880 4670 4470 4480	4390 4620 4290 3960 3720	4520 4760 4520 4260 4310	4640 4290 3830 2910 2020	4000 3830 2910 1920 1860	4200 4110 3300 2090 1940
21 22 23 24 25	2260 2240 2140 2020 1840	2210 2120 2020 1820 1690	2240 2180 2090 1900 1740	3630 3450 3680 3750 3830	3440 3150 3440 3500 3670	3580 3330 3520 3640 3780	4110 4220 4060 3950 4310	3700 3860 3550 3040 1980	3930 4050 3930 3290 2380	3040 2990 1640 1540 1530	1890 1630 1480 1180 1280	2540 2120 1580 1360 1360
26 27 28 29 30 31	1770 1740 1650 	1690 1630 1590 	1730 1700 1620 	3820 3840 3830 3540 3500 3310	3590 3580 3450 3450 3260 3060	3660 3710 3590 3500 3390 3200	3640 2660 3800 4000 4930	2560 2070 2660 3180 3700	3090 2310 3170 3710 4440	1440 1390 1480 1460 1710 2230	1260 1300 1320 1370 1380 1710	1350 1330 1400 1420 1490 1920
MONTH							4930	1980	3720	5840	1180	3190
		JUNE			JULY			AUGUST			SEPTEMBE	R
1 2 3	2810											
4 5	2250 1860 1360 1220	2230 1690 1360 1140 1070	2600 1900 1690 1230 1110	  	  		4510 3390 4130 4280 5020	2620 2540 3390 4020 2630	3960 2940 3980 4090 4410	4420 4330 4280 4260 3640	4290 4180 4060 3640 3420	4340 4250 4170 4010 3540
	1860 1360	1690 1360 1140	1900 1690 1230				3390 4130 4280	2540 3390 4020	2940 3980 4090	4330 4280 4260	4180 4060 3640	4250 4170 4010
5 6 7 8 9	1860 1360 1220 1160 1110 1080 1120	1690 1360 1140 1070 1050 1030 1030 945	1900 1690 1230 1110 1100 1050 1050 1030	   3350 3220	  3200 1630 1740 3400 3540 3650 4130	   3260 2200	3390 4130 4280 5020 2630 1280 1330 1950	2540 3390 4020 2630 1140 593 633 1310	2940 3980 4090 4410 1810 919 981 1570	4330 4280 4260 3640 3550 3430 2730	4180 4060 3640 3420 3320 3180 2230 2430 2410 3020 3500 3560 3690	4250 4170 4010 3540 3420 3320 2610 2590
5 6 7 8 9 10 11 12 13 14	1860 1360 1220 1160 1110 1080 1120 1050	1690 1360 1140 1070 1050 1030 1030 945 931	1900 1690 1230 1110 1100 1050 1050 1030 990	  3350 3220 3400 3670 3720 4210 4610	  3200 1630 1740 3400 3540 3650 4130	  3260 2200 2560 3550 3630 3850 4320	3390 4130 4280 5020 2630 1280 1330 1950 2480 2920 1560 1100	2540 3390 4020 2630 1140 593 633 1310 2000 1560 897 1000	2940 3980 4090 4410 1810 919 981 1570 2240 2340 1110 1040	4330 4280 3640 3550 3430 2730 3020 3780 3680 3950 3940	4180 4060 3640 3420 3320 3180 2230 2430 2410 3020 3500 3560 3690	4250 4170 4010 3540 3420 2610 2590 2660 3460 3830 3830 3860
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	1860 1360 1220 1160 1110 1080 1120 1050    916 885 853	1690 1360 1140 1070 1050 1030 1030 945 931    837 809	1900 1690 1230 1110 1100 1050 1050 1030 990     849 833	  3350 3220 3400 3670 3720 4210 4610 4270	3200 1630 1740 3400 3540 3650 4130 2970 3920	3260 2200 2560 3550 3630 3850 4320 3710 4090	3390 4130 4280 5020 2630 1280 1330 1950 2480 2920 1560 1100	2540 3390 4020 2630 1140 593 633 1310 2000 1560 897 1000 1030	2940 3980 4090 4410 1810 919 981 1570 2240 2340 1110 1040 1070	4330 4280 4260 3640 3550 3430 2730 3020 3780 3680 3950 3940 3950 4170 4320 4950 4290	4180 4060 3640 3420 3320 3180 2230 2430 2410 3020 3560 3690 3660 3930 4070 4250 3930	4250 4170 4010 3540 3420 2610 2590 2660 3460 3830 3860 3800 4030 4200 4540 4070
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	1860 1360 1220 1160 1110 1080 1120 1050    916 885 853 925 953 947 923 908	1690 1360 1140 1070 1050 1030 1030 945 931   837 809 821 920 922 898 861	1900 1690 1230 1110 1100 1050 1050 1030 990   849 833 884 937 933 908 881	3350 3220 3400 3670 3720 4210 4610 4270 4240	3200 1630 1740 3400 3540 3650 4130 2970 3920   3910 3710 4200	3260 2200 2560 3550 3630 3850 4320 3710 4090   4320 4410	3390 4130 4280 5020  2630 1280 1330 1950 2480  2920 1560 1100 1110 2000 2280 2760 3010	2540 3390 4020 2630 1140 593 633 1310 2000 1560 897 1000 1030  1000 1030 1030 1030 1030	2940 3980 4090 4410 1810 919 981 1570 2240 2340 1110 1040 1070  1920 2080 2490 2890	4330 4280 4260 3640 3550 3430 2730 3020 3780 3680 3950 3940 3950 4170 4320 4950 4290 3970	4180 4060 3640 3420 3320 3180 2230 2410 3020 3500 3560 3690 3660 3930 4070 4250 3930 3640 3530 3800 3650 3650	4250 4170 4010 3540 3420 2610 2590 2660 3460 3830 3860 3800 4030 4200 4200 4070 3820 3670 3940 3750 3690

# 07124000 ARKANSAS RIVER AT LAS ANIMAS, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		D	ECEMBER			JANUARY	
1 2 3 4 5	21.8 17.9 19.3 20.9 21.8	13.9 12.8 10.3 12.3 13.0	17.5 15.3 14.4 16.2 17.0	12.2 14.6	6.1 5.7 6.6 9.2 7.9	8.0 8.6 9.4 11.3 10.9	5.5 5.0 4.5 4.1 4.1	1.0 2.1 .1 .3	3.3 3.5 2.2 2.1 2.1	8.3 9.0 7.5 6.8 3.7	4.2 4.3 5.4 3.6 1.3	6.2 6.5 6.5 5.3 2.6
6 7 8 9 10	21.3 17.4 20.3 20.2 20.7	13.2 13.6 10.8 11.2 11.3	17.0 15.3 15.1 15.3 15.6	11.9 11.2 10.8 11.9 11.6	7.1 5.3 4.0 4.8 5.3	9.2 7.8 7.2 8.1 8.1	3.8 5.4 6.1 7.7 9.1	2.3 1.5 1.6 2.9 5.2	3.2 3.3 4.0 5.4 7.1	4.3 3.0 2.1 4.0	.9 .0 .0 .0	2.3 .9 .6 1.2
11 12 13 14	21.8 21.7 21.1 20.5 20.8	12.2 12.0 12.0 11.7 13.0	16.5 16.5 16.2 15.9 16.4	10.2 9.2 10.3 8.3 7.4	4.9 4.7 4.1 5.3 6.0	7.1 6.5 6.7 6.7	9.4 8.3 7.9 5.7 3.8	4.1 3.7 2.6	6.3 5.8 4.4	.0.0.0	.0	.0.0.0
16 17 18 19 20	19.9 15.1 16.0 15.7 15.9	11.2 9.8 7.1 9.4 9.5	11 9	6.0 4.5 7.0 10.5 11.8	3.0 1.7 2.7 5.4 7.8	4.9 3.2 4.9 7.9 9.6	2.6 .3 .1 .0	. 0 . 0 . 0 . 0	1.2 .0 .0 .0	.0	.0 .0 .0	.0
21 22 23 24 25	10.1 12.4 13.8 14.9 13.4	6.4 3.9 5.9 7.0 8.0	8.3 8.0 9.7 10.7	9.2 8.3 7.5 5.7 6.2	6.8 6.7 3.8 2.2 2.4	7.7 7.4 6.2 3.8 4.1	.1 1.4 2.2 2.5 2.7	. 0 . 0 . 0 . 0	.0 .4 .6 .7	4.1 3.6 5.9 6.1 4.7	.0 .3 1.0 1.7	1.7 2.1 3.3 3.8 2.6
26 27 28 29 30 31	11.3 9.6 11.7 11.4 11.7 8.1	7.7 7.5 6.4 7.8 7.5 6.2	9.7 8.6 9.2 9.6 9.3 7.0	3.9 4.8 5.3 7.8 5.9	1.9 1.9 .9 4.2 3.0	2.8 3.1 3.3 5.8 4.9	.9 4.7 5.4 5.4 6.6	.0 .0 1.7 1.3 2.7 4.5	.3 2.2 3.5 3.5 4.7 6.5	5.4 2.9 5.1 8.0 8.2 9.5	.5 .4 .0 3.1 2.2 4.1	2.8 1.7 2.1 5.0 5.2 6.7
MONTH	21.8	3.9	13.0	14.8	.9	6.7	9.4	.0	2.8			
		FEBRUAR	Y		MARCH			APRIL			MAY	
1 2 3 4 5	10.0 7.7 7.8 6.2 4.5	6.4 5.1 4.9 3.3 1.7	6.2	7.8 8.6 10.0 8.6 8.3	3.9 4.1 5.5 5.8 4.3	5.6 6.2 7.6 7.1 6.3	18.4 10.7 15.5 18.7 12.7	6.9	12.4 8.8 11.0 13.3 8.9	19.2 18.4 20.7 23.7 23.0	10.0 8.9 7.5 10.4 13.5	14.0 12.8 13.7 16.5 17.7
6 7 8 9 10	3.8 4.3 4.3 6.2 5.9	3.3 1.7 1.9 1.3 .4 2.6 2.4	2.8 2.6 2.3 4.2 4.1	10.1 11.1 11.9 12.6 13.5	4.5 5.8 6.7 7.6 7.3	7.2 8.4 9.2 9.9	16.4 18.0 10.7 16.6 7.4	4.0 4.8 4.3 3.3 2.4	9.6 10.6 7.0 8.9 4.6	25.4 22.0 15.9 23.1 25.0	13.4 12.5 12.4 9.7 10.8	18.3 17.1 14.1 15.8 17.3
11 12 13 14 15	4.7 5.8 4.4 5.9 7.7	2.2 2.4 2.4 1.0 2.6	3.4 3.8 3.3 3.4 4.9	13.6 14.4 11.6 7.9 8.4	7.9 8.6 7.9 4.0 1.6	10.7 11.4 10.0 6.5 4.9	9.9 11.4 16.9 17.6 20.5	1.2 .5 1.9 4.4 5.8	4.8 5.6 8.7 10.7 12.5	21.9 23.5 24.1 23.6 25.5	11.0 12.0 12.3	16.3 16.5 17.6 17.3 18.7
16 17 18 19 20	9.1 10.4 11.7 11.0 9.7	3.7 6.1 6.6 8.3 6.2	6.3 8.1 9.0 9.4 7.9	11.1 12.7 16.6 18.1 19.8	3.7 6.0 6.7 5.7 7.5	7.1 9.2 11.1 11.4 13.1	21.9 23.5 20.8 23.3 23.7	8.6 8.6 9.4 9.4 11.1	14.5 15.3 14.8 15.7 16.8	27.9 28.6 26.5 19.3 21.5	13.6 15.3 15.0 15.1 13.9	20.3 21.3 19.9 16.6 17.4
21 22 23 24 25	7.0 7.2 5.2 3.3 6.0	4.5 2.2 .9 .0 2.2	6.0 4.7 3.0 1.6 3.8	17.0 18.6 14.8 15.4 16.3	7.9 7.0 8.2 6.9 4.8	11.9 12.2 11.0 10.1 9.9	21.0 18.1 20.2 12.2 9.2	11.3 9.8 9.0 7.5 7.2	15.1 13.3 13.7 9.1 8.1	23.4 21.3 23.1 23.3 21.5	15.8 15.5 17.0 17.7 17.2	19.0 18.2 19.8 20.2 19.0
26 27 28 29 30 31	4.4 4.7 6.2 	2.7 .9 3.0 	3.7 3.0 4.5 	18.1 19.1 18.7 10.6 17.4 18.5	5.4 7.5 6.5 6.2 3.7 5.8	11.2 12.5 11.5 8.4 10.0 11.4	14.9 18.7 20.9 20.6 22.3	6.7 8.6 11.2 10.9 11.0	10.2 13.1 15.3 15.5 15.9	21.1 19.4 21.2 19.9 21.9 26.0	17.2 15.9 15.6 17.5 16.9 17.5	18.9 17.5 18.1 18.7 19.1 21.3
MONTH	11.7	.0	4.8	19.8	1.6	9.5	23.7	.5	11.5	28.6	7.5	17.7

# 07124000 ARKANSAS RIVER AT LAS ANIMAS, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1 2 3 4 5	27.3 22.5 24.4 21.8 22.4	18.1 18.5 18.9 17.7	22.3 20.2 20.8 20.2 20.1	26.4 25.7 25.1 25.6 27.3	21.2  18.3 18.0 18.5	23.6  21.4 21.4 22.1	31.3 31.1 30.8 30.3 23.6	20.5 22.7 20.5 21.1 20.1	25.2 26.0 25.2 24.9 21.7	28.4 22.9 26.3 27.6 28.2	18.1 19.5 18.3 17.7 18.9	22.8 20.7 21.5 22.0 23.1
6 7 8 9 10	21.7 20.4 20.5 19.8 20.1	19.5 18.7 19.2 18.2 17.8	20.3 19.5 19.8 18.8 18.9	27.5 29.1 29.0 27.4 28.4	17.1 17.7 18.7 19.1 20.7	21.6 22.4 23.3 23.2 24.0	21.4 21.7 24.1 25.1 23.5	19.9 18.4 19.9 21.9 20.5	20.5 20.0 21.9 23.4 21.8	27.6 27.3 26.9 22.6 25.2	18.4 17.7 18.1 18.6 17.1	22.3 22.1 22.2 20.4 20.7
11 12 13 14 15	21.9 22.1 21.6 21.7 21.5	19.5 21.1 20.3 20.1 20.6	20.6 21.8 21.0 21.0 21.1	29.4 30.0 29.5 29.9 31.5	18.5 18.8 17.5 17.6 18.8	23.1 24.0 23.1 22.8 24.2	22.8 22.3 23.3 23.9 24.1	19.0 19.1 20.6 21.9 22.1	20.8 21.0 21.9 22.9 23.1	26.4 26.4 26.2 27.9 27.7	17.1 17.7 17.1 17.7 17.7	21.4 21.7 21.2 22.2 22.4
16 17 18 19 20	21.2 20.5 22.6 23.3 23.1	20.3 19.9 19.5 21.6 21.7	20.6 20.2 20.9 22.4 22.3	30.9 29.8 29.5 30.1 30.4	18.6 18.3 17.3 19.0 18.8	24.0 23.5 23.1 23.2 23.6	24.2 23.6 24.2 25.3 26.0	22.2 21.8 21.3 21.9 21.9	23.4 22.7 22.5 23.4 23.8	27.3 26.7 26.9 24.5 18.8	19.0 17.2 17.1 17.0 14.2	22.5 21.5 21.5 20.5 15.6
21 22 23 24 25	23.2 23.2 22.9 22.6 22.4	22.3 22.5 21.9 21.8 21.7	22.8 22.9 22.3 22.2 22.0	30.2 31.2 32.2 32.1 31.8	18.8 19.2 19.5 20.0 20.6	23.9 24.6 25.2 25.5 25.0	26.3 27.6 28.2 27.9 26.9	21.7 21.9 20.9 19.7 22.5	24.0 24.4 24.3 23.6 24.4	17.6 22.7 19.0 20.6 22.6	12.8 14.6 15.1 13.7 12.6	14.9 17.8 16.6 16.3 17.1
26 27 28 29 30 31	22.3 22.6 23.9 24.9 25.9	20.9 21.1 21.7 21.7 21.1	21.7 21.9 22.6 23.3 23.3	31.9 31.3 29.9 29.3 28.0 29.9	19.7 19.8 20.6 19.9 21.9	24.8 24.6 24.1 23.7 24.6 25.0	28.5 29.2 29.2 29.0 26.4 26.8	21.2 19.9 19.8 20.5 17.9 18.5	24.6 24.4 24.3 23.8 22.1 22.0	23.0 24.6 22.9 22.9 22.8	13.9 15.9 15.6 13.5	18.3 19.8 18.6 17.8 18.0
MONTH	27.3	17.7	21.3	32.2			31.3	17.9	23.2	28.4	12.6	20.1
YEAR	32.2	.0	13.2									

## 07124200 PURGATOIRE RIVER AT MADRID, CO

LOCATION (REVISED).--Lat 37°07'46", long 104°38'20", in SW1/4NE1/4 sec.35, T.33 S., R.65 W., Las Animas County, Hydrologic Unit 11020010, on left bank 70 ft downstream from county road bridge, 0.3 mi northeast of Madrid, 1.0 mi downstream from Burro Canyon, and 9 mi west of Trinidad.

DRAINAGE AREA.--505 mi².

PERIOD OF RECORD.--March 1972 to current year. Water-quality data available, October 1978 to September 1981.

GAGE.--Water-stage recorder with satellite telemetry, and crest-stage gage. Datum of gage is 6,261.61 ft above sea level, (U.S. Army, Corps of Engineers bench mark).

REMARKS.--Records good except those above 800 ft³/s, and estimated daily discharges, which are poor. Diversions for irrigation of about 6,000 acres upstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

			DISCH	ARGE, CUBI	C FEET PER S		VATER YEAR MEAN VALU		1996 TO S	EPTEMBER 199	7	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	24 22 22 31 29	23 20 19 20 21	e15 e16 e17 e18 e20	e25 e24 e24 e21 e20	e21 e20 e18 14 15	16 17 19 18 17	30 29 29 29 27	e111 e106 e99 e92 e92	e305 e380 e410 e455 e500	e170 e160 138 126 122	e160 e210 e170 e290 e390	70 62 68 72 71
6 7 8 9 10	25 23 22 21 21	21 20 18 23 21	e19 e20 e21 e20 21	e18 e15 e16 e16 e17	e15 e15 e16 e17 e17	16 18 19 20 20	22 22 24 24 23	e105 e110 e115 e124 e120	e485 e500 e480 e440 e400	106 100 94 82 77	e240 e270 e240 e360 e380	67 67 57 81 76
11 12 13 14 15	20 18 18 18	20 20 19 19	18 e17 e17 e16 e15	e15 e14 e14 e15 e16	e16 e17 e15 e16 e17	20 21 23 23 22	e23 e24 25 33 30	e115 e160 e166 e172 e180	e390 e350 e340 e320 e330	82 78 78 71 70	219 173 160 141 128	68 56 52 50 47
16 17 18 19 20	17 17 17 17 17	18 18 19 20 20	e15 e13 e11 e12 e14	e15 e14 e15 e15 e16	18 19 16 16 15	21 22 24 22 23	36 36 37 40 42	e210 e220 e270 e320 e400	e360 e340 e310 e300 e310	65 64 63 e270 e110	116 108 103 92 85	45 44 43 43
21 22 23 24 25	22 18 23 24 22	18 18 18 18	e15 e16 e15 e16 e14	e16 e18 e18 e17 e17	15 13 e14 e14 e15	27 33 33 32 34	46 57 53 62 67	e520 e520 e500 e440 e400	e290 e310 e290 e260 e225	e95 e130 e95 e110 e87	81 75 115 74 66	68 62 59 61 53
26 27 28 29 30 31	20 40 26 34 26 25	e16 e15 e15 e16 e15	e13 e16 e18 e20 e20 e23	e18 e18 e20 e21 e20 e21	e15 e16 e17 	35 35 31 30 27 34	57 60 85 97 107	e350 e300 e240 e220 e210 e245	e220 e210 e200 e190 e180	e80 e230 e270 e210 e300 e560	72 64 62 64 68 80	49 46 45 45 43
TOTAL MEAN MAX MIN AC-FT	697 22.5 40 17 1380	563 18.8 23 15 1120	521 16.8 23 11 1030	549 17.7 25 14 1090	452 16.1 21 13 897	752 24.3 35 16 1490	1276 42.5 107 22 2530	7232 233 520 92 14340	10080 336 500 180 19990	4293 138 560 63 8520	4856 157 390 62 9630	1717 57.2 81 43 3410
							BY WATER			100	774	
MEAN MAX (WY) MIN (WY)	29.8 78.5 1983 9.89 1973	24.4 37.7 1983 12.7 1977	20.8 40.3 1984 8.47 1977	18.3 36.6 1984 7.60 1973	19.5 37.2 1983 5.80 1977	20.7 55.9 1987 9.72 1979	46.6 204 1987 12.4 1981	137 413 1980 26.6 1981	206 589 1983 34.8 1972	129 313 1983 18.6 1972	114 342 1981 18.9 1972	57.0 232 1981 11.0 1978
SUMMARY	STATISTI	CS	FOR 3	1996 CALEN	IDAR YEAR	F	OR 1997 WA	TER YEAR		WATER YEA	ARS 1972	- 1997
LOWEST		AN		12082 33.0	Jul 25		32988 90.4 ^e 560	Jul 31		70.8 145 21.6 1640	Sep	1983 1974 7 1981
LOWEST ANNUAL INSTANT	DAILY MEA SEVEN-DAY ANEOUS PE	N MINIMUM AK FLOW		e ₁₁	Dec 18 Dec 15		e ₁₁ 14 4130	Dec 18 Dec 15 Aug 5		a3.0 b ₁₄₃₀₀	Feb 2 Feb 2 Jul 2	23 1977 23 1977 20 1976
ANNUAL 10 PERC 50 PERC	ANEOUS PE RUNOFF (A ENT EXCEE ENT EXCEE ENT EXCEE	C-FT) DS DS		23960 61 24 17			6.91 65430 290 30 16	Aug 5		^C 12.80 51270 180 30 13	Jul 2	20 1976

e-BSTIMATEG. a-Also occurred Feb 24 to Mar 2, 1977. b-From rating curve extended above 300 ft³/s, on basis of timed-drift measurement, and slope-area measurements of peak flow. c-From floodmarks.

### 07124400 TRINIDAD LAKE NEAR TRINIDAD, CO

LOCATION.--Lat 37°08'27", long 104°33'03", in NE¹/4SW¹/4 sec.27, T.33 S., R.64 W., Las Animas County, Hydrologic Unit 11020010, in valve house near center of dam on Purgatoire River, and 3.2 mi southwest of courthouse in Trinidad.

DRAINAGE AREA.--672 mi².

PERIOD OF RECORD .-- August 1977 to current year.

REVISED RECORDS.--WDR CO-78-1: 1977(M). WDR CO-83-1: 1981-82 (contents). WDR CO-89-1: 1988 (contents).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,073.64 ft above sea level, (levels by U.S. Army, Corps of Engineers).

REMARKS.--Records good except those for Dec. 11 to Jan. 29, which are fair. Reservoir is formed by a rock and earthfill dam completed in 1977. Storage began Aug. 19, 1977. Reservoir area-capacity tables were revised beginning Nov. 1, 1994 after a resurvey by the Corp of Engineers. Total capacity, 184,000 acre-ft, at elevation 6,285.00 ft. Elevation of high crest of spillway, 6,258 ft, with capacity of 120,400 acre-ft. Elevation of notch crest in spillway is 6,243.0 ft, capacity, 92,580 acre-ft. Permanent pool is 4,112 acre-ft at elevation 6,143.1 ft. Elevation of outlet invert is 6,095.0 ft. Reservoir is used for flood control, storage for irrigation, and to help control sedimentation. Figures given are total contents.

COOPERATION .-- Capacity tables provided by U.S. Army, Corps of Engineers.

6,175.0

17,800

EXTREMES (AT 2400) FOR PERIOD OF RECORD.--Maximum contents, 61,800 acre-ft, Apr. 26, 1983, elevation, 6222.66 ft; no contents prior to Aug. 19, 1977.

EXTREMES (AT 2400) FOR CURRENT YEAR.--Maximum contents, 24,800 acre-ft, Aug. 25-26, maximum elevation, 6,185.34 ft, Aug. 25; minimum contents, 8,070 acre-ft, Oct. 10-11, minimum elevation, 6,155.27 ft.

Capacity	table	(elevation,	in feet,	and	contents,	in	acre-feet,	effective	Nov.	1,	1994)	
		6,150.0	6,098		6,180.0		21,000					
		6,155.0	7,956		6,185.0		24,530					
		6,160.0	10,080		6,190.0		28,370					
		6,165.0	12,360		6,195.0		32,550					
		6 1 7 0 0	1 4 0 4 0				20 010					

# RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY OBSERVATION AT $24{:}00~\rm{VALUES}$

6,205.0

41,820

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8110	8960	10000	10800	11800	12700	14200	16300	18500	23600	18200	22900
2	8080	9020	9960	10800	11800	12700	14200	16400	18600	23300	18200	22500
3	8090	9070	9920	10900	11900	12800	14200	16600	18700	23000	18300	22100
4	8120	9120	9860	10900	11900	12800	14200	16700	19000	22700	18500	21800
5	8130	9170	9870	11000	11900	12800	14200	16900	19400	22400	19100	21500
6	8120	9200	9920	11000	11900	12900	14200	17100	19800	22000	19500	21100
7	8110	9240	9960	11000	12000	12900	14200	17200	20200	21600	20000	20700
8	8100	9280	10000	11100	12000	12900	14200	17400	20500	21300	20400	20400
9	8080	9330	10100	11100	12000	13000	14200	17700	20800	20900	21000	20100
10	8070	9380	10100	11100	12100	13000	14200	17800	21200	20500	21800	19800
11	8070	9410	10200	11200	12100	13100	14200	18000	21500	20200	22200	19400
12	8080	9460	10200	11200	12100	13100	14300	18300	21700	19800	22500	19100
13	8080	9500	10300	11200	12200	13100	14300	18600	21900	19400	22800	18900
14	8090	9560	10300	11200	12200	13200	14400	18600	22100	19000	23100	18700
15	8110	9590	10300	11200	12200	13200	14400	18500	22300	18600	23400	18500
16 17 18 19 20	8120 8130 8180 8220 8250	9610 9660 9710 9760 9800	10300 10300 10300 10300 10300	11300 11300 11300 11300 11400	12300 12300 12300 12400 12400	13300 13300 13300 13400 13400	14500 14500 14500 14600	18400 18300 18300 18200 18300	22500 23000 23300 23400 23600	18300 18100 17900 18100 18000	23500 23700 23900 24000 24100	18200 18000 17700 17400 17100
21 22 23 24 25	8300 8340 8400 8460 8520	9840 9890 9910 9950 9990	e10400 e10400 10400 10500	11400 11500 11500 11500 11500	12400 12500 12500 12500 12500	13500 13600 13600 13700 13800	14700 14800 14900 15000 15200	18600 19000 19200 19400 19500	23800 23900 24000 24000 24000	17900 17800 17700 17600 17500	24200 24400 24500 24700 24800	16900 16700 16500 16300 16000
26 27 28 29 30 31	8550 8640 8710 8790 8850 8900	10000 10100 10100 10100 10100	10500 10600 10600 10700 10700 10700	11600 e11600 11600 11700 11700 11800	12600 12600 12700 	13800 13900 14000 14000 14100	15300 15500 15700 15900 16100	19500 19400 19200 19000 18700 18600	24000 24000 24000 23900 23800	17400 17500 17700 17700 18000 18200	24800 24600 24200 23800 23500 23200	15800 15700 15500 15300 15200
MAX	8900	10100	10700	11800	12700	14100	16100	19500	24000	23600	24800	22900
MIN	8070	8960	9860	10800	11800	12700	14200	16300	18500	17400	18200	15200

CAL YR 1996 MAX 30900 MIN 8070 WTR YR 1997 MAX 24800 MIN 8070

e-Estimated.

#### 07124410 PURGATOIRE RIVER BELOW TRINIDAD LAKE, CO

LOCATION.--Lat 37°08'37", long 104°32'49", in NE¹/4SW¹/4 sec.27, T.33 S., R.64 W., Las Animas County, Hydrologic Unit 11020010, on left bank of flip bucket outlet, 500 ft downstream from base of dam, 0.8 mi upstream from Santa Fe Railroad bridge, and 3.0 mi southwest of courthouse in Trinidad.

DRAINAGE AREA.--672 mi².

PERIOD OF RECORD.--December 1976 to current year. Water-quality data available, March 1977 to September 1984.

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Datum of gage is 6,073.64 ft above sea level, (levels by U.S. Army, Corps of Engineers). Auxillary gage is water-stage recorder in shelter about 1,000 ft downstream.

REMARKS.--Records good except those below 0.5 ft³/s, which are fair. Natural flow of stream affected by diversions upstream from station for irrigation of about 6,000 acres. Flow since Aug. 19, 1977, completely regulated by Trinidad Lake (station 07124400) immediately upstream. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

			DISCH	IARGE, CUBI	C FEET PER S		WATER YEA Y MEAN VAI		1996 TO SE	EPTEMBER	1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	34 29 18 16 24	.47 .44 .43 e.44 e.38	38 38 39 40 15	.58 .58 .58 .58	.58 .58 .51 .51	. 28 . 28 . 23 . 20 . 20	14 21 20 18 18	9.0 9.0 9.0 9.0	297 298 290 267 277	248 248 246 260 282	151 150 150 135 98	230 233 234 234 234
6 7 8 9 10	28 28 28 28 22	.38 .38 .38 .38	.33 .33 .33 .33	.58 .68 .78 .77	.51 .51 .51 .51	.21 .23 .08 .08	18 18 18 18	9.0 13 11 11	287 271 263 264 236	282 277 274 262 256	8.3 6.1 6.1 4.6 4.9	233 233 231 234 236
11 12 13 14 15	16 14 13 12 8.5	.38 .38 .38 .38	. 27 . 28 . 28 . 28 . 28	.77 .77 .77 .77 e.77	.51 .44 .38 .38	.08 .08 .08 .08	6.6 .25 .22 7.9	11 15 7.8 116 218	221 220 222 223 224	255 255 254 254 252	4.9 4.9 4.9 2.1 2.8	235 200 139 139 139
16 17 18 19 20	8.2 3.8 .59 .58	.38 .38 .38 .39	. 28 . 28 . 28 . 28 . 28	.77 .73 .68 .68	.34 .33 .33 .33	.06 .06 .06 .06	17 17 17 17 17	250 256 258 297 315	217 95 146 205 198	208 157 154 154 154	4.1 4.1 34 27 27	153 136 162 162 162
21 22 23 24 25	.58 .59 .50 .44 .47	.38 .38 .38 .38	. 28 . 28 . 28 . 28 . 28	.68 .68 .68 .68	. 29 . 28 . 28 . 28 . 28	.06 .06 .06 .06	17 17 17 17 17 7.3	317 318 317 317 317	208 215 228 235 206	147 139 139 139 142	23 21 21 21 21	161 161 161 161 160
26 27 28 29 30 31	. 44 . 44 . 45 . 44 . 44	.38 .38 .38 15 37	.31 .33 .38 .33 .44	.58 .58 .49 .99	. 28 . 28 . 28 	.06 .06 .06 .07 .08	.27 .27 .23 .22 6.7	317 316 315 312 310 301	191 200 206 206 234	148 148 148 150 150	63 160 211 232 231 230	147 124 117 116 115
TOTAL MEAN MAX MIN AC-FT	337.49 10.9 34 .44 669	62.91 2.10 37 .38 125	178.18 5.75 40 .27 353	21.05 .68 .99 .49 42	11.24 .40 .58 .28 22	3.28 .11 .28 .06 6.5	378.96 12.6 21 .22 752	5300.8 171 318 7.8 10510	6850 228 298 95 13590	6333 204 282 139 12560	2063.8 66.6 232 2.1 4090	5382 179 236 115 10680
					YEARS 1977							
MEAN MAX (WY) MIN (WY)	24.0 96.0 1984 .35 1989	6.63 25.9 1984 .015 1982	2.78 11.9 1979 .001 1995	2.79 14.7 1977 .012 1985	3.26 13.1 1977 .056 1984	3.40 17.8 1977 .007 1982	32.6 91.7 1982 .073 1984	174 375 1994 25.5 1980	202 614 1983 51.5 1977	176 306 1983 40.5 1977	148 285 1991 36.1 1977	113 283 1984 5.15 1987
SUMMAR	Y STATIST	CICS	FOR	1996 CALE	NDAR YEAR	1	FOR 1997 V	NATER YEAR		WATER Y	EARS 1977	7 - 1997
ANNUAL HIGHES LOWEST HIGHES LOWEST ANNUAL INSTAN INSTAN ANNUAL	T ANNUAL MANUAL MANUAL MANUAL ME DAILY ME SEVEN-DATANEOUS FANEOUS FANE	EAN EAN AN EAN Y MINIMUN EAK FLOW EAK STAGE AC-FT)		.04 38510	May 24 4 Mar 11 4 Mar 15		554 7.2 53400	May 22 06 Mar 16 06 Mar 16 May 19		76.9 146 42.8 917 C.( 963 7.8 55720	Sep OO Aug OO Nov Sep	1983 1978 11 1981 20 1977 18 1979 10 1981 10 1981
50 PER	CENT EXCE CENT EXCE CENT EXCE	EDS		236 16 .09	€		251 8.3 .2	3 28		246 12 .(	)4	

e-Estimated.

a-Also occurred Mar 12-13, 15-29, and Mar 31 to Apr 2. b-Also occurred Mar 17-28.

c-No flow at times most years.

## 07126140 VAN BREMER ARROYO NEAR TYRONE, CO

Sheep Camp, 6 mi southeast of Tyrone, and 11 mi upstream from mouth.

DRAINAGE AREA.--132 mi².

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD .-- May 1985 to current year.

GAGE.--Water-stage recorder with satellite telemetry, crest-stage gage, and artificial control. Elevation of gage is 5,310 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good except for discharges less than 0.05 ft³/s, which are poor. Natural flow affected by return flow from irrigation and storage in a small channel reservoir upstream.

			_	ARGE, CUBIC	_	SECOND, V		R OCTOBER		EPTEMBER 19	97	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .04 .00 .00	.00 .00 .00 .00
6 7 8 9	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .43	.00 .00 .00 .00
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.48 .40 .00 .00	.00 .00 .00 .00
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .05 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
26 27 28 29 30 31	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00	.00 .00 .02 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00
TOTAL MEAN MAX MIN AC-FT	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.05 .002 .05 .00	0.02 .001 .02 .00	1.48 .048 .48 .00 2.9	0.58 .019 .58 .00
STATIST	ICS OF MO	NTHLY MEA	N DATA FO	OR WATER YE	EARS 1985	- 1997,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	2.12 17.3 1986 .000 1990	.039 .23 1986 .000 1990	.019 .11 1987 .000 1990	.021 .16 1987 .000 1989	.041 .48 1987 .000 1989	.004 .035 1987 .000 1989	.045 .42 1996 .000 1989	1.07 5.11 1987 .000 1990	1.48 7.44 1985 .000 1990	.56 2.74 1990 .001 1997	1.96 8.30 1986 .000 1996	2.57 10.3 1988 .000 1991
SUMMARY	STATISTI	CS	FOR 1	1996 CALENI	DAR YEAR	F	OR 1997 WA	TER YEAR		WATER YE	ARS 1985	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT		AN AN N MINIMUM AK FLOW		91.56 .25 *6.8 e,a.00 .00	May 5 Jan 1 Jan 1		2.13 .00 .58 a.00 .00 5.8 5.00	Sep 30 Oct 1 Oct 1 Aug 11		.77 2.53 .00 171 a.00 b.511	Aug 2 Jul 2 Aug 2 Aug 2	1986 1997 23 1986 27 1985 5 1985 23 1986 23 1986
ANNUAL 10 PERC 50 PERC	RUNOFF (A ENT EXCEE ENT EXCEE	C-FT) DS DS		182 .16 .00			4.2 .00 .00			557 1.5 .00	)	23 1700

^{*-}Also occurred May 6.

^{*-}ALSO occurred may 6.
e-Estimated.
a-No flow many days most years.
b-From rating curve extended above 45 ft³/s, on basis of flow through culvert computation.
c-Maximum gage height, 11.58 ft, Sep 9, 1995.

# 07126140 VAN BREMER ARROYO NEAR TYRONE, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD .-- May 1985 to current year.

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: May 1985 to current year. WATER TEMPERATURE: May 1985 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Records for daily specific conductance are good. Records for daily water temperature are good. Only maximum and minimum specific conductance and water temperature data are published for days of partial flow, including June 22, July 28-29, Aug. 9-12, and Sept. 30. Daily data that are not published are either missing, during periods of no flow, or are of unacceptable quality.

## EXTREMES FOR PERIOD OF RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 25,700 microsiemens, May 20, 1988; minimum, 164 microsiemens, Sept. 9, 1995. WATER TEMPERATURE: Maximum, 36.5°C, July 4, 1986; minimum, 0.0°C, many days during the winter months.

#### EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 4,300 microsiemens, Sept. 30; minimum, 247 microsiemens, Aug. 11. WATER TEMPERATURE: Maximum, 26.7°C, Aug. 12; minimum 12.3°C, June 22.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	VEMBER		DE	CEMBER			JANUARY	
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
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20												
20												
21												
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23												
24												
25												
26												
27												
28												
29												
30												
31												
MONTH												

# 07126140 VAN BREMER ARROYO NEAR TYRONE, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
4												
1 2												
3												
4												
5												
6												
7												
8 9												
10												
11 12												
13												
14												
15												
16												
17												
18 19												
20												
21 22												
22												
24												
25												
26												
27												
28 29												
30												
31												
MONTH												
11011111												
		JUNE			JULY		I	UGUST		:	SEPTEMBE	R
1 2							 					
1 2 3												
2 3 4					  		  			 	  	  
2 3												
2 3 4					  		  			 	  	  
2 3 4 5 6 7							====					
2 3 4 5 6 7 8							   					
2 3 4 5 6 7							====					   
2 3 4 5 6 7 8 9							    689 1560	    300 556		    		
2 3 4 5 6 7 8 9				    			     689	    300				
2 3 4 5 6 7 8 9 10 11 12 13			   	    		     	    689 1560 973 973	    300 556 247 382	    	      		
2 3 4 5 6 7 8 9 10 11 12 13 14			    	    		    	    689 1560 973 973	   300 556 247 382				
2 3 4 5 6 7 8 9 10 11 12 13				    		    	    689 1560 973 973	    300 556 247 382	   	     		
2 3 4 5 6 7 8 9 10 11 12 13 14 15							   689 1560 973 973	   300 556 247 382 				
2 3 4 5 6 7 8 9 10 11 12 13 14 15			       	      		      	   689 1560 973 973 	   300 556 247 382 				
2 3 4 5 6 7 8 9 10 11 12 13 14 15							   689 1560 973 973	   300 556 247 382 				
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18				      		       	   689 1560 973 973 	   300 556 247 382 				
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20							   689 1560 973 973  	   300 556 247 382  				
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18						       	   689 1560 973 973 	  300 556 247 382 				
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23							   689 1560 973 973  	  300 556 247 382  				
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	         	        					   689 1560 973 973  	  300 556 247 382  				
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23							   689 1560 973 973  	  300 556 247 382  				
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26							  689 1560 973 973  	  300 556 247 382  				
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27							   689 1560 973 973  	  300 556 247 382  				
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26							  689 1560 973 973  	  300 556 247 382   				
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30							689 1560 973 973	300 556 247 382				
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29							   689 1560 973 973  	  300 556 247 382  				

# 07126140 VAN BREMER ARROYO NEAR TYRONE, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			VEMBER			CEMBER			JANUARY	
1 2												
3												
4 5												
6 7												
8												
9 10												
11 12												
13												
14 15												
15												
16 17												
18												
19												
20												
21												
22 23												
24												
25												
26												
27												
28 29												
30												
31												
MONTH												
		FEBRUARY			MARCH			APRIL			MAY	
1												
2												
2 3												
2 3 4				  	  			  			  	
2 3 4 5 6 7				   								
2 3 4 5 6 7 8				  			  					
2 3 4 5 6 7				=== === === ===								
2 3 4 5 6 7 8 9				  						   		
2 3 4 5 6 7 8 9 10				     								
2 3 4 5 6 7 8 9 10 11 12 13			   						==== ==== ==== ==== ====	==== ==== ==== ==== ====		
2 3 4 5 6 7 8 9 10				     								
2 3 4 5 6 7 8 9 10 11 12 13 14 15	      		   	==== ==== ==== ==== ==== ====						    		
2 3 4 5 6 7 8 9 10 11 12 13 14 15			      						      	      		
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18												
2 3 4 5 6 7 8 9 10 11 12 13 14 15			      						      	      		
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30												

# 07126140 VAN BREMER ARROYO NEAR TYRONE, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1												
2												
3												
4												
5												
6												
7												
8												
9							18.4	17.8				
10							26.6	16.5				
11							19.3	17.6				
12							26.7	15.4				
13												
14												
15												
16												
17												
18												
19												
20												
21												
22	14.4	12.3										
23												
24												
25												
26												
27												
28				18.6	18.3							
29				18.3	17.4							
30										20.4	14.6	
31												
MONTH												

# 07126140 VAN BREMER ARROYO NEAR TYRONE, CO--Continued PRECIPITATION RECORDS

PERIOD OF RECORD.--June 1993 to current year (seasonal records only).

GAGE.--Tipping-bucket rain gage with satellite telemetry. Elevation of gage is 5,310 ft above sea level, from topographic map.

REMARKS.--Records good. Records published for period of seasonal operation only (Oct. 1 to Nov. 6 and Apr. 18 to Sept. 30). Daily data that are not published during this period are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall during period of seasonal operation, 3.00 inches, Sept. 9, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall during period of seasonal operation, 1.29 inches, Aug. 9.

	PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY SUM VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00						.00	.00	.00	.06	.02
2	.00	.00						.02	.00	.00	.42	.00
3	.00	.00						.00	.00	.00	.00	.00
4	.00	.01						.00	.28	.00	.00	.00
5	.00	.00						.00	.00	.05	.33	.00
6	.00	e.00						.00	.53	.10	.03	.12
7	.00							.02	.13	.00	.00	.00
8	.00							.01	.07	.00	.00	.00
9	.00							.00	.18	.00	1.29	.02
10	.00							.00	.30	.00	.19	.00
11	.00							.00	.00	.11	.53	.00
12	.00							.03	.00	.00	.00	.00
13	.00							.00	.03	.00	.06	.00
14	.03							.00	.00	.00	.00	.00
15	.01							.03	.00	.00	.00	.00
16	.00							.00	.22	.00	.00	.00
17	.00							.00	.00	.00	.00	.00
18	.00						e.00	.00	.00	.00	.08	.00
19	.00						.00	.10	.00	.22	.00	.00
20	.00						.00	.15	.00	.00	.02	.33
21	.07						.42	.00	.00	.00	.01	.24
22	.06						.08	.11	.79	.00	.00	.35
23	.00						.10	.12	.00	.00	.00	.03
24	.00						.20	.00	.00	.00	.00	.03
25	.00						.49	.00	.00	.00	.00	.00
26	.00						.00	.00	.03	.34	.02	.00
27	.26						.00	.00	.00	.02	.00	.00
28	.00						.00	.00	.00	.86	.00	.00
29	.00						.00	.00	.00	.02	.00	.00
30	.00						.00	.00	.00	.00	.00	.00
31	.00							.00		.00	.04	
TOTAL	0.43							0.59	2.56	1.72	3.08	1.14

 $\hbox{e-Estimated.}$ 

## 07126200 VAN BREMER ARROYO NEAR MODEL, CO

LOCATION.--Lat 37°20'45", long 103°57'27", in sec.13, T.31 S., R.59 W., Las Animas County, Hydrologic Unit 11020010, on right bank 3 mi upstream from mouth, 16 mi east of Model, and 33 mi northeast of Trinidad.

DRAINAGE AREA.--175 mi², of which 11.8 mi² is noncontributing.

## WATER-DISCHARGE RECORDS

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

PERIOD OF RECORD .-- July 1966 to current year.

REVISIONS.--WDR CO-84-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gages. Elevation of gage is 4,960 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair, except those for Sept. 4-30, which are poor.

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.14 .14 .14 .12	.20 .20 .20 .20	.21 .21 .18 .18	.20 .19 .20 .18	.20 .20 .18 .17	.16 .15 .14 .14	.11 .12 .12 .12 .12	.10 .10 .10 .10	.07 .06 .06 .06	.04 .04 .04 .04	.10 .10 4.9 .64	.11 .10 .10 .08
6 7 8 9 10	.12 .12 .12 .13 .14	.20 .18 .18 .20	.20 .20 .19 .20	.20 .18 .18 .19	.18 .19 .18 .17	.14 .14 .14 .12	.11 .11 .11 .12	.10 .10 .10 .10	.07 .14 .08 .06	.04 .04 .04 .04	.17 .13 .10 5.0	.11 .14 .12 .16
11 12 13 14 15	.14 .14 .14 .14	.20 .20 .20 .20	.17 .17 .17 .17	.17 .17 .17 .17 .19	.17 .17 .18 .18	.13 .13 .13 .12	.12 .12 .12 .12 .11	.10 .10 .10 .08	.06 .05 .04 .04	.04 .04 .04 .04	1.5 3.4 1.9 .50	.14 .14 .15 .17
16 17 18 19 20	.14 .13 .14 .14	.20 .20 .20 .20 .20	.16 .18 .16 .16	.18 .18 .19 .21	.17 .17 .17 .18	.14 .13 .12 .12	.10 .11 .10 .10	.10 .08 .07 .07	.05 .05 .04 .05	.04 .04 .04 .04	.14 .12 .11 .10	.17 .15 .14 .13
21 22 23 24 25	.19 .20 .20 .19	.20 .20 .20 .20 .20	.18 .20 .20 .19	.21 .20 .20 .19	.17 .15 .17 .17	.12 .12 .12 .13 .14	.13 .19 .13 .14	.00	.04 .04 .11	.04 .04 .04 .04	.09 .08 .08 .08	.18 .15 .14 .16
26 27 28 29 30 31	.17 .37 .30 .25 .19	.20 .20 .20 .22 .23	.19 .20 .20 .20 .19	.21 .19 .18 .20 .19	.19 .17 .17 	.14 .12 .12 .12 .12 .12	.16 .12 .12 .12 .10	.06 .06 .06 .07 .08	.07 .04 .04 .04	.04 .04 10 .82 .10	.08 .08 .08 .08 .09	.15 .14 .14 .14 .14
TOTAL MEAN MAX MIN AC-FT	5.09 .16 .37 .12	6.01 .20 .23 .18	5.75 .19 .21 .16	5.90 .19 .21 .17	4.90 .17 .20 .15 9.7	4.03 .13 .16 .12 8.0	3.70 .12 .24 .10 7.3	2.62 .085 .10 .06	1.70 .057 .14 .04 3.4	12.08 .39 10 .04 24	31.39 1.01 11 .08 62	4.17 .14 .18 .08 8.3
							BY WATER					
MEAN MAX (WY) MIN (WY)	1.22 16.0 1986 .059 1992	.17 .35 1973 .067 1984	.16 .26 1973 .031 1984	.18 .43 1973 .064 1984	.20 .59 1987 .11 1992	.18 .40 1973 .072 1979	.19 .74 1973 .075 1979	3.02 30.1 1981 .072 1992	2.16 20.6 1969 .030 1968	4.37 36.4 1977 .039 1978	8.40 104 1981 .11 1991	1.96 9.90 1972 .041 1991
SUMMARY	STATISTI	CS	FOR 1996 CALENDAR YEAR			F	OR 1997 WA	TER YEAR		WATER YEARS 1966 - 1997		
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS		294.52 .80  72 Jul 22 a.06 Jul 4 .06 Jul 15  584 .25 .19 .10			87.34 .24  11 Aug 10 b.04 Jun 13 .04 Jun 27 164 Jul 28 2.95 Jul 28 173 .20 .14 .04				1.86 12.3 .11 802 May 30 1981 C.00 Jun 7 1968 d.6240 May 26 1967 f.9.40 1350 .40 .15 .07			

a-Also occurred Jul 5-8, 12-13, 16-21, and Aug 13. b-Also occurred Jun 14-15, 18, 21-24, and Jun 27 to Jul 27. c-Also occurred Jun 8-13, 1968. d-From rating curve extended above 65 ft³/s, on basis of slope-area measurement of peak flow. f-From floodmarks. Maximum gage height, 9.98 ft, Aug 9, 1979, from floodmark.

# 07126200 VAN BREMER ARROYO NEAR MODEL, CO--Continued WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: January 1983 to current year. WATER TEMPERATURE: January 1983 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Records for specific conductance are good except for May 3-13 and Aug. 9-20, which are fair. Records for water temperature are fair. Daily data that are not published are either missing or of unacceptable quality.

# EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 8,860 microsiemens, May 13, 1987; minimum, 114 microsiemens, June 28, 1995. WATER TEMPERATURE: Maximum, 34.0°C, June 15, 28, 1986; minimum, 0.0°C, many days during the winter in most years.

#### EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 2,240 microsiemens, Dec. 26; minimum, 383 microsiemens, July 28. WATER TEMPERATURE: Maximum, 30.7°C, July 14, 26; minimum, 0.9°C, Dec. 17.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		D	ECEMBER			JANUARY	7
1	1790	1740	1760	1910	1840	1860	2050	1930	2000	1940	1860	1900
2	1790	1740	1760	1910	1840	1880	2010	1960	1990	1910	1860	1880
3	1790	1690	1750	1910	1830	1870	2040	1940	1990	1900	1780	1840
4	1740	1690	1710	1910	1830	1870	2070	1960	2010	1840	1760	1810
5	1760	1700	1720	1930	1870	1900	2080	1990	2040	1840	1800	1820
6	1760	1700	1720	1930	1850	1890	2080	2030	2060	1900	1780	1830
7	1730	1690	1700	1910	1860	1880	2090	2020	2050	2020	1850	1920
8	1720	1670	1690	1920	1850	1890	2060	1960	2020	2000	1890	1950
9	1720	1640	1690	1930	1860	1900	2040	1970	2000	2010	1910	1960
10	1720	1650	1690	1940	1860	1900	2010	1950	1980	2020	1940	2000
11	1740	1670	1700	1950	1880	1910	1980	1900	1940	2100	2010	2060
12	1740	1610	1710	1940	1890	1910	1940	1870	1910	2100	2010	2060
13	1740	1630	1700	1950	1880	1920	1940	1880	1910	2090	2020	2060
14	1750	1630	1710	1960	1900	1930	1950	1890	1920	2090	1990	2040
15	1780	1690	1740	1950	1920	1930	1950	1870	1920	2050	1970	2020
16	1870	1750	1800	1970	1920	1950	1970	1870	1930	2110	2020	2060
17	1900	1780	1850	1970	1910	1940	2050	1930	1990	2110	2050	2080
18	1930	1840	1890	1960	1890	1930	2210	2040	2140	2130	2010	2080
19	1940	1890	1910	1960	1900	1930	2220	2060	2150	2120	2040	2080
20	1950	1880	1920	1960	1900	1930	2180	2050	2110	2100	2010	2060
21	1940	1810	1890	1950	1890	1920	2120	2050	2090	2040	1910	1990
22	1970	1900	1930	1950	1900	1920	2170	2070	2130	1960	1870	1920
23	1960	1900	1930	1960	1920	1940	2190	2060	2150	1920	1820	1870
24	1960	1910	1920	1970	1910	1940	2220	2070	2150	1920	1840	1870
25	1950	1880	1900	1980	1910	1950	2160	2090	2130	1940	1850	1900
26 27 28 29 30 31	1950 1880 1840 1880 1870	1860 1700 1720 1790 1800 1820	1920 1810 1780 1830 1830	1970 1980 2000 1990 1990	1930 1910 1920 1930 1920	1950 1950 1960 1960 1960	2240 2140 2130 2080 2010 1990	2050 2050 2040 1950 1930 1920	2140 2100 2090 2020 1980 1950	1910 1920 1960 1910 1920 1920	1860 1880 1800 1850 1850	1890 1890 1890 1880 1890
MONTH	1970	1610	1800	2000	1830	1920	2240	1870	2030	2130	1760	1950

# 07126200 VAN BREMER ARROYO NEAR MODEL, CO--Continued

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

							@ 25 DEG. 0					
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3	1910 1890 1870	1840 1820 1800	1870 1860 1830	2020 2020 2010	1960 1950 1970	1990 1990 1990	2040 2040 2050	1950 1990 1980	2000 2010 2010	2060 2060 2070	1990 2000 2000	2020 2030 2030
4 5	1850 1860	1780 1800	1810 1830	2010 2010 2000	1950 1920	1980 1970	2050 2050 2050	1980 1980	2010 2010 2010	2140 2100	2030 2040	2080 2060
6	1880	1830	1850	2000	1940	1980	2050	1980	2010	2090	2040	2060
7	1940 1970	1850 1900	1890 1940	2030 2040	1960 1970	1990 2000	2040 2030	1940 1960	2000 2000	2090 2080	2030 2020	2060 2040
9 10	2000 2010	1930 1940	1960 1980	2060 2060	1990 1980	2020 2020	2030 2020	1960 1970	1990 1990	2120 2090	2030 2040	2070 2060
11	2030	1980	2000	2070	1990	2030	2040	1950	1990	2080	2040	2060
12 13	2040 2020	1960 1960	2000 2000	2070 2070	1990 1990	2030 2030	2070 2040	1960 1960	2020 2000	2100 2120	2030 2040	2060 2070
14 15	2070 2010	1950 1960	2010 1990	2040 2040	1980 1960	2000 2000	2040 2030	1950 1910	1990 1980	2110 2110	2040 2040	2070 2070
16 17	2010 1990	1920 1940	1970 1960	2040 2030	1960 1960	2000 2000	2010 2010	1920 1910	1960 1960	2120 2140	2060 2050	2090 2090
18 19	1980 1950	1890 1900	1930 1920	2050 2050 2040	1980 1980 1960	2010 2010 2000	2010 2010 2030	1890 1880	1970 1970	2140 2140 2120	2050 2050 2040	2080 2070
20	1940	1850	1890	2040	1920	2000	2010	1940	1980	2150	2020	2100
21 22	1890 1920	1840 1840	1870 1880	2040 2050	1940 1950	2000 2000	2060 2090	1960 1870	2000 2020	2150 2130	2050 2080	2110 2100
23 24	1890 1940	1850 1870	1870 1900	2040 2050	1960 1980	2000 2010	2060 2040	1990 1980	2020 2010	2130 2150	2060 2080	2100 2110
25	1990	1910	1950	2060	2000	2030	2020	1930	1980	2160	2070	2100
26 27	2020 2030	1970 1970	2000 2010	2060 2040	2000 1980	2030 2010	2060 2050	1940 1960	2000 2020	2150 2120	2060 2030	2090 2070
28 29	2030	1980	2010	2040 2030	1970 1980	2010 2000	2040 2040	1960 1960	2010 2000	2120 2120	2020 2030	2050 2070
30 31				2040 2040	1970 1940	2010 2000	2040	1990	2010	2120 2120	1990 1840	2070 2010
MONTH	2070	1780	1930	2070	1920	2000	2090	1870	2000	2160	1840	2070
		JUNE			JULY			AUGUST			SEPTEMBE	ir.
1	2160	JUNE 1930	2070	2030	JULY 1960	1990		AUGUST	1130	1610	SEPTEMBE	TR 1580
2	2160 2140 2120		2100 2080	2030 1980		1970 1960	1160 1150 2020	1110 1090 693	1130 1110 1210			1580 1640 1670
2	2140	1930 2080	2100	2030	1960 1950	1970	1160 1150	1110 1090	1110	1610 1660	1520 1610	1580 1640
2 3 4 5	2140 2120 2110 2160	1930 2080 2050 2040 2050	2100 2080 2070 2100	2030 1980 1970 1960	1960 1950 1940 1920 1920	1970 1960 1940 1930	1160 1150 2020 787 885	1110 1090 693 672 755	1110 1210 710 805	1610 1660 1690 1710 1710	1520 1610 1660 1660 1680	1580 1640 1670 1690 1700
2 3 4 5 6 7 8	2140 2120 2110 2160 2150 2190 2140	1930 2080 2050 2040 2050 2000 1910 2060	2100 2080 2070 2100 2060 2080 2100	2030 1980 1970 1960 1970 1980 1980	1960 1950 1940 1920 1920 1900 1910 1920	1970 1960 1940 1930 1920 1930 1940	1160 1150 2020 787 885 1010 1010	1110 1090 693 672 755 847 910 967	1110 1210 710 805 912 963 1020	1610 1660 1690 1710 1710 1730 1680 1710	1520 1610 1660 1660 1680 1600 1520 1620	1580 1640 1670 1690 1700 1710 1610 1670
2 3 4 5 6 7	2140 2120 2110 2160 2150 2190	1930 2080 2050 2040 2050 2000 1910	2100 2080 2070 2100 2060 2080 2100 2080 2030	2030 1980 1970 1960 1970 1980 1980 1990 1970	1960 1950 1940 1920 1920 1900 1910	1970 1960 1940 1930 1920 1930	1160 1150 2020 787 885 1010 1010	1110 1090 693 672 755 847 910	1110 1210 710 805 912 963	1610 1660 1690 1710 1710	1520 1610 1660 1660 1680 1600 1520	1580 1640 1670 1690 1700 1710 1610
2 3 4 5 6 7 8 9 10	2140 2120 2110 2160 2150 2190 2140 2110 2070	1930 2080 2050 2040 2050 2000 1910 2060 2040 1990	2100 2080 2070 2100 2060 2080 2100 2080 2030	2030 1980 1970 1960 1970 1980 1980 1990 1970	1960 1950 1940 1920 1920 1920 1910 1920 1930 1940	1970 1960 1940 1930 1920 1930 1940 1950 1950	1160 1150 2020 787 885 1010 1010 1080 1330 966	1110 1090 693 672 755 847 910 967 538 522 911	1110 1210 710 805 912 963 1020 1090 886	1610 1660 1690 1710 1710 1730 1680 1710 1730 1730	1520 1610 1660 1660 1680 1600 1520 1620 1660 1710	1580 1640 1670 1690 1700 1710 1610 1670 1700 1690
2 3 4 5 6 7 8 9 10 11 12 13	2140 2120 2110 2160 2150 2190 2140 2110 2070 2090 2070 2040	1930 2080 2050 2040 2050 2000 1910 2060 2040 1990 2000 1990 1980	2100 2080 2070 2100 2060 2080 2100 2080 2030	2030 1980 1970 1960 1970 1980 1980 1990 1970	1960 1950 1940 1920 1920 1900 1910 1920 1930 1940 1940 1940	1970 1960 1940 1930 1920 1930 1940 1950 1950 1960 1980 1970	1160 1150 2020 787 885 1010 1010 1080 1330 966 962 983 742	1110 1090 693 672 755 847 910 967 538 522 911 642 620	1110 1210 710 805 912 963 1020 1090 886 930 894 648	1610 1660 1690 1710 1710 1730 1680 1710 1730 1730 1750 1770 1780	1520 1610 1660 1660 1680 1620 1620 1660 1710 1740 1740	1580 1640 1670 1690 1700 1710 1610 1670 1700 1690 1730 1750 1770
2 3 4 5 6 7 8 9 10 11 12 13 14	2140 2120 2110 2160 2150 2190 2140 2110 2070	1930 2080 2050 2040 2050 2000 1910 2060 2040 1990 2000 1990 1980 1970	2100 2080 2070 2100 2060 2080 2100 2080 2030	2030 1980 1970 1960 1970 1980 1980 1990 2000 2020 1990 2010	1960 1950 1940 1920 1920 1900 1910 1920 1920 1930 1940 1940 1940	1970 1960 1940 1930 1920 1930 1940 1950 1950 1960 1980 1970	1160 1150 2020 787 885 1010 1010 1080 1330 966 962 983	1110 1090 693 672 755 847 910 967 538 522 911 642 620 742	1110 1210 710 805 912 963 1020 1090 886 930 894 648 942	1610 1660 1690 1710 1710 1730 1680 1710 1730 1730 1770 1770 1770 1780 1790	1520 1610 1660 1660 1680 1620 1620 1660 1710 1740	1580 1640 1670 1690 1700 1710 1610 1670 1700 1690 1730 1750
2 3 4 5 6 7 8 9 10 11 12 13 14	2140 2120 2110 2160 2150 2190 2140 2070 2070 2040 2030 2030 2030 2030	1930 2080 2050 2040 2050 2000 1910 2060 2040 1990 2000 1990 1980 1970	2100 2080 2070 2100 2060 2080 2100 2080 2030 2040 2020 2000 1990 2010	2030 1980 1970 1960 1970 1980 1980 1980 1970 2000 2020 1990 2010 2020 2010 2020	1960 1950 1940 1920 1920 1900 1910 1920 1920 1930 1940 1940 1940	1970 1960 1940 1930 1920 1930 1940 1950 1950 1960 1980 1970 1980	1160 1150 2020 787 885 1010 1010 1080 1330 966 962 983 742 1130 1230	1110 1090 693 672 755 847 910 967 538 522 911 642 620 742	1110 1210 710 805 912 963 1020 1090 886 930 894 648 942 1170	1610 1660 1690 1710 1710 1730 1680 1710 1730 1730 1770 1770 1770 1780 1790	1520 1610 1660 1660 1680 1620 1620 1660 1710 1740 1740 1720	1580 1640 1670 1690 1700 1710 1610 1670 1700 1690 1730 1750 1750 1750
2 3 4 5 6 7 8 9 10 11 12 13 14 15	2140 2120 2110 2160 2150 2190 2140 2110 2070 2090 2040 2030 2030	1930 2080 2050 2040 2050 2000 1910 2060 2040 1990 2000 1990 1970 1970	2100 2080 2070 2100 2060 2080 2100 2080 2030 2040 2020 2000 1990 2000	2030 1980 1970 1960 1970 1980 1980 1990 2000 2020 2010 2020 2010 2000 1970 1970	1960 1950 1940 1920 1920 1920 1920 1920 1930 1940 1940 1940 1950	1970 1960 1940 1930 1920 1930 1940 1950 1950 1960 1980 1970 1980	1160 1150 2020 787 885 1010 1010 1080 1330 966 962 983 742 1130 1230	1110 1090 693 672 755 847 910 967 538 522 911 642 620 742 1120	1110 1210 710 805 912 963 1020 1090 886 930 894 648 942 1170	1610 1660 1690 1710 1710 1730 1680 1710 1730 1730 1770 1770 1770 1780 1790 1800	1520 1610 1660 1660 1680 1620 1620 1660 1710 1740 1740 1720 1750	1580 1640 1670 1690 1700 1710 1610 1670 1700 1750 1750 1750 1750 1750
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	2140 2120 2110 2160 2150 2190 2140 2070 2070 2040 2030 2030 2030 2030 2090 2070 2080	1930 2080 2050 2040 2050 2050 2060 2040 1990 2000 1990 1970 1970 1960 1970 2000 1990 1990	2100 2080 2070 2100 2060 2080 2100 2030 2030 2040 2020 2000 1990 2010 2040 2040 2020 2030	2030 1980 1970 1960 1970 1980 1980 1990 2020 1990 2010 2020 2010 2020 2010 2000 1970 1980 1970	1960 1950 1940 1920 1920 1920 1910 1920 1930 1940 1940 1940 1950 1940 1950 1940 1950	1970 1960 1940 1930 1920 1930 1940 1950 1950 1970 1970 1970 1970 1970 1950 1950 1940	1160 1150 2020 787 885 1010 1010 1080 1330 966 962 983 742 1130 1230 1360 1440 1480 1520 1560	1110 1090 693 672 755 847 910 967 538 522 911 642 620 742 1120 1360 1390 1460 1470	1110 1210 710 805 912 963 1020 1090 886 930 894 648 942 1170 1290 1400 1500 1510	1610 1660 1690 1710 1710 1710 1730 1680 1710 1730 1750 1770 1780 1790 1800 1800 1770 1770 1770	1520 1610 1660 1660 1680 1620 1620 1660 1710 1740 1740 1750 1750 1750 1750 1750	1580 1640 1670 1690 1700 1710 1610 1670 1700 1750 1750 1750 1750 1750 1750 17
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	2140 2120 2110 2160 2150 2190 2140 2070 2070 2040 2030 2030 2030 2030 2080 2090 2070 2080 2090 2070 2050	1930 2080 2050 2040 2050 2040 1910 2060 2040 1990 1990 1970 1970 1970 1970 2000 1990 1990 2000	2100 2080 2070 2100 2060 2080 2100 2080 2030 2040 2020 2000 1990 2010 2040 2020 2040 2020 2030 2030	2030 1980 1970 1960 1970 1980 1980 1980 1990 2020 1990 2010 2020 2010 2020 1970 2010 2020 2010 2020	1960 1950 1940 1920 1920 1920 1930 1940 1940 1940 1950 1940 1920 1920 1920 1920 1920	1970 1960 1940 1930 1920 1930 1940 1950 1950 1960 1980 1970 1970 1970 1950 1940 1940	1160 1150 2020 787 885 1010 1010 1080 1330 966 962 983 742 1130 1230 1360 1440 1480 1520 1560	1110 1090 693 672 755 847 910 967 538 522 911 642 620 742 1120 1220 1360 1390 1460 1470	1110 1210 710 805 912 963 1020 1090 886 930 894 648 942 1170 1290 1400 1420 1500 1510	1610 1660 1690 1710 1710 1730 1680 1710 1730 1730 1750 1770 1780 1800 1790 1800 1770 1770 1770 1770 1770	1520 1610 1660 1660 1680 1600 1520 1660 1710 1740 1740 1750 1730 1730 1730 1740 1760	1580 1640 1670 1690 1700 1710 1610 1670 1700 1750 1750 1750 1750 1750 1750 17
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	2140 2120 2110 2160 2150 2190 2140 2170 2070 2070 2030 2030 2030 2030 2090 2090 2070 2080 2060 2050 2060 2060 2060	1930 2080 2050 2040 2050 2000 1910 2060 2040 1990 1980 1970 1970 1970 1970 2000 1990 1990 1990 2000 1990 1990	2100 2080 2070 2100 2080 2100 2080 2030 2030 2040 2020 2000 1990 2010 2040 2020 2030 2030 2030 2030 2030 203	2030 1980 1970 1960 1970 1980 1980 1990 2020 2020 2010 2020 2010 2000 1970 1980 1970 2010 2040 2040 2030 2040 2030 2000	1960 1950 1940 1920 1920 1920 1920 1930 1940 1940 1940 1950 1940 1920 1920 1920 1920 1930	1970 1960 1940 1930 1920 1930 1940 1950 1950 1970 1970 1970 1970 1970 1970 1970 197	1160 1150 2020 787 885 1010 1010 1080 1330 966 962 983 742 1130 1230 1360 1440 1440 1480 1520 1560	1110 1090 693 672 755 847 910 967 538 522 911 642 620 742 1120 1220 1360 1390 1460 1470 1490 1490 1490	1110 1210 710 805 912 963 1020 1090 886 930 894 648 942 1170 1290 1400 1510 1510	1610 1660 1690 1710 1710 1710 1730 1680 1770 1730 1750 1770 1780 1790 1800 1770 1770 1770 1770 1770 1770 177	1520 1610 1660 1660 1680 1620 1620 1660 1710 1740 1740 1750 1750 1750 1730 1740 1760 1740 1760	1580 1640 1670 1690 1700 1710 1610 1670 1700 1750 1750 1750 1750 1750 1750 17
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	2140 2120 2110 2160 2150 2190 2140 2070 2070 2040 2030 2030 2030 2060 2090 2070 2080 2060 2050 2060 2060 2060 2020	1930 2080 2050 2040 2050 2040 2060 2040 1990 2060 1990 1980 1970 1960 1970 2000 1990 1990 2000 2000 1990 1990	2100 2080 2070 2100 2060 2080 2100 2080 2030 2020 2020 2000 1990 2010 2040 2020 2030 2030 2030 2030 2030 203	2030 1980 1970 1960 1970 1980 1980 1980 1970 2020 1990 2010 2020 2010 2020 2010 2020 2010 2020 1970 1970 2010 2020 1970	1960 1950 1940 1920 1920 1920 1920 1930 1940 1940 1940 1950 1940 1950 1920 1920 1920 1920 1920 1920 1920	1970 1960 1940 1930 1920 1930 1940 1950 1950 1950 1970 1970 1970 1970 1950 1940 1940 1940 1940 1960 1920	1160 1150 2020 787 885 1010 1010 1080 1330 966 962 983 742 1130 1230 1360 1440 1480 1520 1510 1530 1600 1610	1110 1090 693 672 755 847 910 967 538 522 911 642 620 742 1120 1220 1360 1390 1460 1470 1490 1490 1520	1110 1210 710 805 912 963 1020 1090 886 930 894 648 942 1170 1290 1400 1510 1510 1510 1550 1600	1610 1660 1690 1710 1710 1730 1680 1710 1730 1730 1750 1770 1770 1770 1770 1770 1770 177	1520 1610 1660 1660 1680 1620 1620 1660 1710 1740 1750 1750 1750 1750 1750 1750 1760 1760 1760 1780 1780 1780	1580 1640 1670 1690 1700 1710 1610 1670 1700 1750 1750 1750 1750 1750 1750 17
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27	2140 2120 2110 2160 2150 2190 2140 2070 2070 2070 2030 2030 2030 2030 203	1930 2080 2050 2040 2050 2000 1910 2060 2040 1990 1990 1970 1970 1970 2000 1990 1990 2000 1990 1990 1990 199	2100 2080 2070 2100 2060 2080 2100 2080 2030 2040 2020 2000 1990 2010 2040 2020 2030 2030 2030 2030 2030 203	2030 1980 1970 1960 1970 1980 1980 1980 1990 2020 1990 2010 2020 2010 2020 2010 2020 1970 2010 2020 1970 2010 2030 1970 2040 2030 1980 1980 1980	1960 1950 1940 1920 1920 1920 1920 1930 1940 1940 1940 1950 1940 1920 1920 1920 1920 1970 1970 1970 1970 1970	1970 1960 1940 1930 1920 1930 1940 1950 1950 1950 1970 1980 1970 1970 1970 1940 1940 1970 2000 2000 1960 1920	1160 1150 2020 787 885 1010 1010 1080 1330 966 962 983 742 1130 1230 1360 1440 1480 1520 1550 1540 1660 1610	1110 1090 693 672 755 847 910 967 538 522 911 642 620 742 1120 1220 1360 1390 1460 1470 1490 1490 1550	1110 1210 710 805 912 963 1020 1090 886 930 894 648 942 1170 1290 1400 1420 1510 1510 1510 1510 1510 1600	1610 1660 1690 1710 1710 1730 1680 17110 1730 1730 1770 1770 1770 1770 17	1520 1610 1660 1660 1680 1620 1620 1620 1660 1710 1740 1750 1730 1730 1730 1740 1760 1760 1780 1780	1580 1640 1670 1690 1700 1710 1610 1670 1700 1750 1750 1750 1750 1750 1750 17
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	2140 2120 2110 2160 2150 2190 2140 2070 2070 2070 2040 2030 2030 2030 2060 2090 2060 2060 2060 2060 2020 2090 2080	1930 2080 2050 2040 2050 2040 2050 2060 2040 1990 2000 1990 1970 2000 1970 2000 1990 1990 1990 1990 1990 1990 199	2100 2080 2070 2100 2060 2080 2100 2080 2030 2030 2040 2020 2000 1990 2010 2040 2020 2030 2030 2030 2030 2030 203	2030 1980 1970 1960 1970 1980 1980 1990 2020 1990 2010 2020 2010 2020 2010 2020 1970 1980 1970 2010 2040 2030 2040 2030 1980 1870 1870 1870 1870 1870 1870 1870 18	1960 1950 1940 1920 1920 1920 1920 1930 1940 1940 1940 1950 1940 1950 1940 1920 1920 1920 1920 1920 1970 1970 1970 1970 1970 1930 1700	1970 1960 1940 1930 1930 1940 1950 1950 1950 1970 1970 1980 1970 1950 1950 1940 1940 1970 2000 2000 1960 1920	1160 1150 2020 787 885 1010 1010 1080 1330 966 962 983 742 1130 1230 1360 1440 1480 1520 1560 1510 1630 1610 1640 1640 1640 1650 1670	1110 1090 693 672 755 847 910 967 538 522 911 642 620 742 1120 1220 1360 1490 1490 1490 1490 1520 1550	1110 1210 710 805 912 963 1020 1090 886 930 894 648 942 1170 1290 1400 1510 1510 1510 1550 1600	1610 1660 1690 1710 1710 1730 1680 1770 1730 1750 1770 1780 1790 1800 1770 1770 1770 1770 1770 1770 177	1520 1610 1660 1660 1680 1620 1620 1660 1710 1740 1740 1750 1750 1750 1750 1750 1750 1750 175	1580 1640 1670 1690 1700 1710 1610 1670 1700 1750 1750 1750 1750 1750 1750 17
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	2140 2120 2110 2160 2150 2190 2140 2070 2070 2040 2030 2030 2030 2060 2090 2050 2060 2060 2060 2060 2060 2060 206	1930 2080 2050 2040 2050 2040 2060 2040 1990 2060 1990 1980 1970 1960 1970 2000 1990 1990 2000 2000 1990 1990 199	2100 2080 2070 2100 2060 2080 2100 2080 2030 2020 2020 2000 1990 2010 2040 2020 2010 2040 2020 2030 2030 2030 2030 2030 203	2030 1980 1970 1960 1970 1980 1980 1980 1970 2020 1990 2010 2020 2010 2020 2010 2020 2010 2020 1970 1980 1970 2010 2030 2040 2030 2030 1980 1980	1960 1950 1940 1920 1920 1920 1920 1930 1940 1940 1940 1940 1950 1940 1950 1920 1920 1920 1920 1920 1970 1970 1970 1970 1970 1930 1700	1970 1960 1940 1930 1920 1930 1940 1950 1950 1950 1970 1970 1970 1970 1970 2000 2000 1960 1920	1160 1150 2020 787 885 1010 1010 1080 1330 966 962 983 742 1130 1230 1360 1440 1480 1520 1560 1510 1600 1610	1110 1090 693 672 755 847 910 967 538 522 911 642 620 742 1120 1220 1360 1390 1460 1470 1490 1490 1520 1550	1110 1210 710 805 912 963 1020 1090 886 930 894 648 942 1170 1290 1400 1510 1510 1550 1600	1610 1660 1690 1710 1710 1730 1680 1710 1730 1730 1750 1770 1770 1770 1770 1770 1770 177	1520 1610 1660 1660 1680 1620 1620 1660 1710 1740 1750 1750 1750 1750 1750 1750 1760 1760 1780 1780 1780 1780 1780 1780	1580 1640 1670 1690 1700 1710 1610 1670 1700 1750 1750 1750 1750 1750 1750 17
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	2140 2120 2110 2160 2150 2190 2140 2070 2070 2070 2030 2030 2030 2030 2050 2060 2050 2060 2050 2060 2020 2080 2090 2030 2030 2030 2030 2030 2030 203	1930 2080 2050 2040 2050 2000 1910 2060 2040 1990 1990 1970 1970 2000 1990 1990 2000 1990 1990 1990 199	2100 2080 2070 2100 2060 2080 2100 2080 2030 2040 2020 2000 1990 2010 2040 2020 2030 2030 2030 2030 2030 203	2030 1980 1970 1960 1970 1980 1980 1980 1990 2020 2010 2020 2010 2020 2010 2020 2010 2020 1970 1970 2010 2030 2040 2030 1980 1980 1980 1980	1960 1950 1940 1920 1920 1920 1920 1930 1940 1940 1940 1940 1950 1940 1920 1920 1920 1970 1970 1970 1970 1970 1970 1970 197	1970 1960 1940 1930 1920 1930 1940 1950 1950 1950 1970 1970 1970 1970 1970 1970 1940 1970 2000 2000 1960 1920	1160 1150 2020 787 885 1010 1010 1080 1330 966 962 983 742 1130 1230 1360 1440 1480 1520 1560 1510 1630 1640 1640 1650 1670 1680	1110 1090 693 672 755 847 910 967 538 522 911 6420 742 1120 1360 1340 1470 1460 1490 1490 1490 1550	1110 1210 710 805 912 963 1020 1090 886 930 894 648 942 1170 1290 1400 1510 1510 1510 1510 1510 1600	1610 1660 1690 1710 1710 1730 1680 1710 1730 1750 1770 1780 1770 1770 1770 1770 1770 177	1520 1610 1660 1660 1680 1520 1620 1620 1660 1710 1740 1750 1730 1730 1730 1730 1740 1760 1760 1780 1780 1780 1780 1780 1780 1800	1580 1640 1670 1690 1700 1710 1610 1670 1700 1750 1750 1750 1750 1750 1750 17

# 07126200 VAN BREMER ARROYO NEAR MODEL, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	?
1 2 3 4 5	22.1 18.8 19.9 20.1 22.1	13.7 13.6 12.0 12.8 13.3	17.6 15.7 15.5 16.0 17.1	13.2 13.7 11.9 14.5 14.0	7.0 6.5 7.6 8.5 7.4	9.4 9.7 9.5 10.8 10.3	6.6 6.5 6.9 7.2 6.4	2.9 2.8 3.1 3.1	4.6 4.5 4.7 4.5 4.6	9.4 9.9 8.8 7.5 3.9	3.7 3.7 5.1 3.9 2.2	6.2 6.4 6.6 5.5 3.2
6 7 8 9 10	21.5 19.6 20.5 20.4 21.1	13.3 12.2	17.2 16.2 16.0 15.8 16.3	11.6 10.9 10.6 11.5 11.8	6.9 5.6 4.6 5.6 6.2	9.1 7.9 7.5 8.3 8.6	6.9 7.8 9.0 10.2 10.2	3.7 2.9 2.8 4.2 5.9	5.2 5.0 5.8 6.8 7.4	5.3 5.9 3.8 4.6 3.4	1.3 2.4 2.4 2.4 2.3	3.0 3.7 2.9 3.5 2.9
11 12 13 14 15	21.6 21.3 21.1 19.4 21.2	12.8 12.7	16.9 16.6 16.6 16.0 17.0	12.6 11.0 12.0 11.1 8.4	5.7 6.5 6.1 7.5 7.0	8.6 8.2 8.6 8.9 7.8	10.0 10.0 9.1 7.9 6.3	4.8 4.2 3.7 3.8 2.4	7.1 6.6 6.0 5.4 4.0	3.0 2.6 3.0 3.8 4.7	2.1 1.6 1.9 2.0 2.2	2.5 2.1 2.3 2.8 3.3
16 17 18 19 20	19.6 16.9 16.6 16.0 15.9	11.2	15.6 13.5 12.3 12.9 12.5	7.0 9.4 9.9 12.3 12.9	5.0 3.8 5.2 6.3 7.4	6.3 6.1 7.4 9.1 9.6	6.9 4.5 5.0 4.7 4.2	1.1 .9 2.2 2.3 2.3	3.7 2.7 3.2 3.3 3.2	4.2 4.6 6.1 7.4 7.8	2.4 2.4 2.4 2.8 2.9	3.0 3.3 3.9 4.6 4.9
21 22 23 24 25	14.6 15.7 14.0	6.6 7.8 8.7	8.5 8.0 10.1 11.3 11.0	11.9 12.3 9.3 8.9 9.2	6.7 7.7 5.7 4.3 3.7	9.1 9.8 7.4 6.2 6.1	4.4 4.7 5.2 4.8 4.3	2.8 2.7 2.5 2.2 3.0	3.5 3.7 3.7 3.5 3.7	8.2 6.1 7.8 7.5 7.7	3.1 1.9 2.6 2.6 2.5	4.8 3.9 4.9 4.6 4.8
26 27 28 29 30 31	11.1 8.2 13.1 11.5 14.0 9.3	5.9 4.3 5.1 5.7 6.7	8.6 6.2 8.7 8.4 9.8	6.1 8.1 7.9 8.9 6.3	4.3 3.3 3.4 5.1 3.1	5.3 5.4 5.6 6.6 4.5	5.0 7.3 8.0 7.9 8.0 9.5	1.8 3.4 3.0 2.8 2.9 4.3	3.5 5.0 5.0 5.0 5.2 6.3	9.6 5.8 8.4 6.9 9.8 11.1	4.1 2.7 2.3 4.0 2.5 4.7	6.3 3.7 4.7 5.3 5.6 7.2
MONTH	22.1	4.3	13.3	14.5	3.1	7.9	10.2	.9	4.7	11.1	1.3	4.3
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	10.2 9.9 10.4 8.8 7.5	6.1 4.8 4.7 3.2 2.3	7.6 7.1 7.0 5.4 4.5	11.5 12.5 12.4 10.8 12.5	4.7 4.1 4.7 4.3 3.4	7.4 8.0 8.2 7.0 7.4	16.2 11.5 12.3 17.5 15.6	8.7 8.3 7.5 7.9 8.1	12.3 9.4 9.8 11.8	19.7 19.2 22.5 24.0 23.1	11.3 10.3 9.6 11.1 13.3	14.8 14.2 15.3 16.9 17.6
6 7 8 9 10	4.7 8.2 8.6 9.1 9.1	3.2 2.3 2.4 3.0 3.0	3.9 4.5 5.0 5.6 5.6	14.2 14.5 14.3 15.3 16.0	4.4 5.7 6.2 6.3 6.1	8.8 9.5 9.7 10.0 10.5		7.2 5.7 3.7		15.2 22.9 24.8	14.3 12.9 12.5 11.9 12.7	16.7 15.8 13.5 16.5 18.3
11 12 13 14 15	7.6 9.7 6.0 9.1 10.8	3.1 2.9 3.0 1.9 2.9	5.2 5.6 4.7 4.9 6.5	16.5 17.2 15.1 10.6 13.1	6.7 7.5 7.8 6.1 3.8	10.9 11.9 10.8 7.6 7.6	9.2 12.0 16.2 16.8 19.8	2.4 2.7 4.8 6.3 7.7	5.3 7.0 9.8 11.1 13.0	23.5 24.0 24.0 22.9 25.6	13.5 12.6 12.8 13.7 13.7	17.8 17.7 18.0 18.0
16 17 18 19 20	12.7 12.2 12.8 10.0 10.6	3.9 6.5 5.5 7.1 5.2	7.8 8.7 8.8 8.2 7.4	15.1 13.4 16.5 17.8 19.9	6.0 7.9 8.5 7.0 8.4	9.8 10.4 11.8 11.9	21.5 22.3 20.2 21.3 22.2	10.5 10.4 11.1 10.6 11.6	15.0 15.5 15.4 15.6 16.3	26.1 26.0 23.0 18.2 25.1	15.1 15.3 15.5 13.9 13.1	20.1 20.4 19.3 15.9 18.2
21 22 23 24 25	8.8 10.5 6.6 6.6 11.2	4.2 2.8 3.2 2.6 3.3	5.9 6.2 4.8 4.3 6.5	18.7 19.6 16.2 14.5 15.9	9.4 8.8 10.5 6.6 5.3	13.4 13.6 12.9 10.4 9.9	20.7 19.1 17.4 12.1 10.0	12.6 11.5 11.5 8.5 6.9	15.8 14.5 14.0 9.9 8.6	23.1 24.4 25.1 23.0 25.1	15.1 15.3 14.7 15.1 13.6	18.6 18.9 19.5 18.9 18.8
26 27 28 29 30 31	7.0 6.9 9.0 	4.1 2.7 3.5 	5.5 4.8 5.9 	17.4 16.1 17.8 11.5 16.9 17.6	6.6 8.4 7.9 7.0 4.7 7.2	11.4 11.8 12.2 9.3 10.3 11.7	13.5 20.4 20.4 19.2 21.4	6.9 7.6 11.5 11.6 10.2	9.9 13.4 15.2 15.1 14.9	23.5 22.7 25.0 21.9 25.2 27.9	15.2 13.4 14.0 15.0 15.7 16.2	19.0 17.8 18.8 18.4 19.8 21.5
MONTH	12.8	1.9	6.0	19.9	3.4	10.3	22.3	2.4	11.9	27.9	9.6	17.9

# 07126200 VAN BREMER ARROYO NEAR MODEL, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1 2 3 4 5	27.7 27.5 27.9 28.7 27.2	17.1 17.9 19.0 18.1 18.1	21.9 22.0 22.8 22.3 22.0	28.5 25.2 27.4 26.3 26.0	17.5 17.0 17.0 17.4 17.6	22.8 21.0 21.5 21.2 21.2	28.2 29.5 23.8 26.0 23.9	19.6 20.5 20.7 19.7 20.9	23.1 23.8 22.5 22.4 22.1	28.1 26.0 27.0 27.3 27.5	18.4 20.1 19.6 18.1 19.6	22.5 22.4 22.4 22.2 23.1
6 7 8 9 10	25.5 22.5 23.6 24.8 26.9	17.2 18.2 16.9 16.1 16.6	20.6 20.1 19.7 20.1 21.0	26.4 26.1 27.3 27.1 25.8	17.0 16.4 17.4 18.1 18.0	21.0 21.1 22.1 21.9 21.7	20.9 26.2 27.8 28.3	18.6 17.5 17.8 18.7	20.2 20.9 22.0 23.1	25.9 27.4 27.6 22.0 26.2	18.3 18.7 18.6 18.1 16.2	22.0 22.2 22.6 19.6 20.5
11 12 13 14 15	29.2 27.0 24.2 24.8 22.9	17.3 18.8 17.2 16.6 16.4	22.7 22.2 20.2 20.1 19.6	28.1 28.9 29.0 30.7 29.0	18.5 18.8 18.1 19.5 19.8	22.8 23.5 23.1 24.3 23.8	  		  	26.2 25.8 25.9 26.7 26.7	17.2 17.6 17.1 17.7	21.2 21.3 20.9 21.6 21.5
16 17 18 19 20	21.5 26.8 28.4 25.7 28.5	16.5 15.1 17.2 18.2 17.6	18.8 20.6 22.5 22.1 22.6	29.1 28.5 29.1 27.4 27.0	19.7 18.7 18.5 19.3	23.6 23.4 23.5 22.6 22.6	  	  	  	26.2 25.6 25.4 24.4 18.9	18.6 17.0 17.1 17.4 14.8	21.5 20.6 20.7 20.5 16.1
21 22 23 24 25	29.2 27.4 27.7 28.3 25.5	18.0 18.4 17.5 17.5	23.2 22.4 22.0 22.3 19.8	28.6 30.0 30.2 30.1 30.3	18.8 19.3 19.5 19.8 20.4	23.3 23.6 24.0 24.7 24.6	28.0 28.2 29.3 29.1 28.9	18.8 19.0 18.6 18.5 19.4	22.9 22.9 23.2 23.3 23.5	17.3 22.5 17.7 22.0 23.2	14.2 15.0 15.4 14.3 13.8	15.5 18.0 16.4 17.4 17.9
26 27 28 29 30 31	28.4 29.2 27.0 27.9 28.7	16.4 17.0 17.4 17.6 17.5	21.2 22.4 22.3 22.4 22.9	30.7 29.3 29.5 25.3 27.8 25.3	20.3 20.4 14.0 16.7 19.8 19.6	24.4 24.3 21.2 20.1 22.9 22.2	28.4 29.1 27.6 27.8 24.5 23.8	19.6 19.2 20.4 20.0 18.7 18.5	23.4 23.8 23.7 22.7 21.3 20.8	23.8 24.9 22.7 23.9 23.4	15.3 16.3 16.2 15.2 15.1	19.1 20.2 19.1 19.0 18.8
MONTH	29.2	15.1	21.5	30.7	14.0	22.7				28.1	13.8	20.2

# 07126200 VAN BREMER ARROYO NEAR MODEL, CO--Continued PRECIPITATION RECORDS

PERIOD OF RECORD.--June 1993 to current year (seasonal records only).

GAGE.--Tipping-bucket rain gage with satellite telemetry. Elevation of gage is 4,960 ft above sea level, from topographic map.

REMARKS.--Records good. Records published for period of seasonal operation only (Oct. 1 to Nov. 6 and Apr. 18 to Sept. 30). Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall during period of seasonal operation, 2.67 inches, May 25, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall during period of seasonal operation, 2.12 inches, July 28.

			P	PRECIPITAT	ION (INCHE		YEAR OCTO SUM VALU		O SEPTEME	BER 1997		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00						.00	.00	.00	.16	
2	.00	.00						.00	.09	.00	.02	
3	.00	.00						.00	.00	.00	.00	
4	.00	.01						.00	.11	.00	.00	e.05
5	.00	.00						.00	.00	.00	.23	.00
6	.00	e.00						.00	1.00	.00	.02	.45
7	.00							.00	.39	.00	.00	.00
8	.00							.02	.04	.00	.00	.00
9	.00							.00	.02	.00	1.25	.15
10	.00							.00	.21	.00	.08	.00
11	.00							.00	.00	.00	.07	.00
12	.00							.02	.00	.00	.00	.00
13	.00							.00	.00	.00	.23	.00
14	.00							.00	.00	.00	.00	.00
15	.00							.00	.00	.00	.00	.00
16	.00							.00	.02	.00	.00	.00
17	.00							.00	.00	.00	.00	.00
18	.00						e.00	.00	.00	.00	.01	.00
19	.00						.00	.17	.13	.00	.01	.00
20	.00						.00	.00	.00	.00	.00	.14
21	.09						.79	.00	.00	.00	e.00	.37
22	.01						.05	.02	.00	.00		.15
23	.00						.12	.01	.00	.05		.01
24	.00						.29	.00	.01	.00		.01
25	.00						.46	.00	.74	.00		.00
26	.07						.00	.00	.00	.00		.00
27	.51						.00	.00	.00	.30		.00
28	.21						.00	.00	.00	2.12		.00
29	.00						.00	.03	.00	.01		.00
30	.00						.00	.02	.00	.00		.00
31	.00							.00		.06		
TOTAL	0.89							0.29	2.76	2.54		

e-Estimated.

#### 07126300 PURGATOIRE RIVER NEAR THATCHER, CO

LOCATION.--Lat 37°21'30", long 103°53'44", in sec.10, T.31 S., R.58 W., Las Animas County, Hydrologic Unit 11020010, on right bank 250 ft downstream from county road bridge at gas line crossing, 1.2 mi downstream from Van Bremer Arroyo, and 18 mi southeast of Thatcher.

DRAINAGE AREA.--1,791 mi².

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1966 to current year. Statistical summary computed for 1976 to current year, subsequent to completion of Trinidad Reservoir.

REVISED RECORDS.--WDR CO-84-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, and crest-stage gages. Elevation of gage is 4,790 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges and flows greater than 1,600 ft³/s, which are poor. Diversions upstream from station for irrigation of about 30,000 acres. Peak flows regulated to some extent by Trinidad Dam, 52 mi upstream, since January 1975.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of July 22, 1954, and May 19, 1955, reached stages of 26.7 and 25.2 ft, respectively, from floodmarks, discharges unknown. Flood of June 18, 1965, reached a stage of 23.5 ft, from floodmarks, discharge, 47.700 ft³/s.

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

			DISCH	ARGE, CUBIC	C FEET PER S		WATER YEA MEAN VAL		996 TO SI	EPTEMBER 199	<del>)</del> 7/	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	19 17 10 9.2 9.8	32 30 29 27 26	27 25 25 27 27	29 27 26 24 25	25 25 25 24 22	28 30 27 24 24	25 22 22 23 19	50 37 28 22 17	51 41 38 43 38	7.7 4.6 3.3 3.8 5.2	220 133 105 45 29	73 40 30 21 18
6 7 8 9 10	9.7 8.8 8.8 8.4 9.0	25 23 23 23 26	27 23 29 33 33	23 23 18 e18 e17	21 21 20 24 23	23 23 22 22 21	21 18 19 16 15	14 12 12 13 15	52 75 89 86 90	5.0 22 30 28 18	195 96 49 35 209	16 47 34 18 16
11 12 13 14 15	11 11 11 11	28 28 26 27 29	31 28 25 24 23	e16 e15 e14 e16 e18	22 22 22 21 23	20 20 20 21 35	15 17 39 35 34	13 12 12 12 13	265 115 80 62 57	10 6.8 4.7 4.5 2.9	86 45 37 31 28	20 16 14 11 9.2
16 17 18 19 20	11 16 22 25 23	27 27 27 27 29	19 e16 13 16 18	e19 e21 23 25 27	23 23 23 23 23	25 23 29 22 21	27 20 17 13 10	11 10 8.9 8.6 8.9	59 72 66 33 45	2.3 1.7 1.3 .92 .95	24 19 23 46 27	9.2 8.5 6.8 7.3 6.4
21 22 23 24 25	23 20 21 22 25	27 24 25 26 27	22 23 25 24 22	30 30 29 27 26	25 24 24 27 27	20 20 21 22 24	8.8 11 17 24 86	17 30 47 46 45	32 27 168 29 34	3.6 12 17 16 13	20 29 24 21 19	9.0 30 212 92 52
26 27 28 29 30 31	25 32 33 56 59 38	29 27 27 27 28	24 24 26 26 27 28	31 25 25 27 25 26	26 28 27 	25 28 26 25 25 25	83 90 166 131 77	44 42 44 50 54 53	106 36 20 15 12	9.5 7.7 107 109 45 29	49 17 16 10 18 12	45 38 36 29 26
TOTAL MEAN MAX MIN AC-FT	615.7 19.9 59 8.4 1220	806 26.9 32 23 1600	760 24.5 33 13 1510	725 23.4 31 14 1440	663 23.7 28 20 1320	741 23.9 35 20 1470	1120.8 37.4 166 8.8 2220	801.4 25.9 54 8.6 1590	1936 64.5 265 12 3840	532.47 17.2 109 .92 1060	1717 55.4 220 10 3410	990.4 33.0 212 6.4 1960
		ONTHLY MEAD				•						
MEAN MAX (WY) MIN (WY)	32.4 84.0 1986 .73 1979	29.8 52.3 1987 3.71 1979	28.1 44.3 1987 12.1 1979	27.3 43.2 1988 10.6 1978	29.2 53.3 1987 11.5 1976	33.3 109 1993 5.97 1977	83.2 467 1983 1.38 1978	131 592 1987 6.22 1991	106 764 1983 6.69 1976	87.0 547 1981 8.80 1989	141 910 1981 9.10 1976	63.1 302 1981 .64 1978
SUMMAR	Y STATIST	ICS	FOR	1996 CALEN	DAR YEAR	F	OR 1997 W	ATER YEAR		WATER YEA	ARS 1976	- 1997
LOWEST HIGHEST LOWEST	MEAN F ANNUAL M ANNUAL MI F DAILY MI DAILY MEA	EAN EAN AN		12562.2 34.3 1100 2.0	Sep 7		11408.7° 31.3 265	Jun 11 2 Jul 19		a66.2 181 12.3 10000 b.00	Jul Jun	1981 1976 3 1981 28 1976
ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			3.1 24920 40 24 8.6	Jun 28		2.0 2540 7.8 22630 52 24 9.9	Aug 1		.00 42400 22.00 47960 108 29 6.0	Jul	28 1976 3 1981 3 1981	

e-Estimated.
a-Average discharge for 10 years (water years 1967-76), 37.9 ft³/s; 27460 acre-ft/yr, prior to completion of Trinidad Dam.
b-No flow at times during 1966, 1971-73, 1976, 1990.
c-From rating curve extended above 2100 ft³/s, on basis of two slope-area measurements of peak flow.

# 07126300 PURGATOIRE RIVER NEAR THATCHER, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1982 to current year.

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: December 1982 to current year. WATER TEMPERATURE: December 1982 to current year.

SUSPENDED SEDIMENT DISCHARGE: May 1983 to September 1992 (discontinued).

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Records for daily specific conductance are good except for July 28 to Sept. 4, which are fair. Records for daily water temperature are good. Daily data that are not published are either missing or of unacceptable quality.

#### EXTREMES FOR PERIOD OF RECORD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 7,030 microsiemens, July 30, 1994; minimum, 200 microsiemens, Aug. 1, 1997. WATER TEMPERATURE: Maximum, 32.1°C, June 25, 1990; minimum 0.0°C, on many days during the winter months. SEDIMENT CONCENTRATION: Maximum daily, 49,600 mg/L, June 9, 1986; minimum daily, 3 mg/L, Apr. 29, 1989. SEDIMENT LOAD: Maximum daily, 250,000 tons, June 6, 1983; minimum daily, 0.00 tons, June 26 to July 4, 1990.

#### EXTREMES FOR CURRENT WATER YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 7,020 microsiemens, June 23; minimum, 200 microsiemens, Aug. 1. WATER TEMPERATURE: Maximum, 29.7°C, July 26; minimum, 0.1°C, on many days during the winter months.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		D	ECEMBER			JANUARY	
1	3940	3740	3850	3590	3540	3560	3610	3560	3600	3570	3250	3420
2	3920	3770	3830	3700	3590	3640	3700	3600	3650	3510	3350	3430
3	3830	3780	3800	3750	3660	3720	3750	3610	3680	3520	3320	3410
4	3830	3800	3820	3660	3610	3640	3730	3550	3630	3450	3300	3380
5	4120	3820	3940	3610	3560	3580	3890	3610	3710	3470	3330	3410
6	4140	4110	4130	3560	3540	3550	4020	3600	3780	3670	3280	3440
7	4140	4100	4130	3550	3530	3540	3840	3650	3760	3540	3330	3450
8	4150	4100	4130	3560	3530	3550	4100	3740	3900	4000	3540	3660
9	4160	4100	4140	3560	3540	3550	3950	3660	3800	3820	3560	3680
10	4150	4100	4120	3550	3510	3530	3770	3720	3740	3760	3560	3640
11	4210	4120	4160	3520	3430	3490	3740	3560	3630	3750	3620	3710
12	4270	4210	4240	3430	3400	3420	3590	3410	3470	3900	3740	3850
13	4210	4080	4120	3420	3410	3410	3460	3410	3440	3980	3860	3930
14	4090	4000	4030	3440	3390	3410	3510	3460	3480	3920	3770	3860
15	4110	4020	4050	3460	3400	3430	3510	3480	3500	3780	3680	3740
16	4150	4100	4120	3420	3400	3420	3540	3460	3500	3690	3650	3680
17	4170	4140	4160	3420	3410	3410	3730	3500	3590	3680	3600	3650
18	4140	3920	4030	3460	3410	3420	3780	3610	3690	3600	3450	3530
19	3930	3880	3910	3540	3460	3490	4230	3650	3920	3470	3340	3420
20	3980	3930	3960	3560	3530	3540	4010	3770	3900	3340	3250	3300
21	3960	3800	3890	3560	3550	3560	3960	3890	3920	3310	3270	3280
22	3800	3470	3640	3570	3550	3560	4000	3900	3940	3290	3130	3200
23	3470	3180	3270	3580	3550	3560	3990	3850	3950	3300	3150	3230
24	3200	3170	3190	3610	3570	3590	3850	3660	3750	3490	3260	3380
25	3320	3200	3240	3600	3570	3580	3680	3570	3620	3550	3270	3440
26 27 28 29 30 31	3370 3420 3540 3530 3690 3670	3310 3260 3420 3190 3170 3470	3330 3310 3510 3440 3310 3570	3590 3580 3570 3590 3590	3560 3530 3520 3560 3560	3570 3560 3540 3570 3570	3620 3590 3590 3550 3500 3410	3510 3450 3540 3450 3370 3260	3570 3520 3560 3480 3450 3350	3540 3370 3530 3640 3290 3660	3160 3120 3370 3280 3230 3260	3370 3290 3450 3390 3260 3390
MONTH	4270	3170	3820	3750	3390	3530	4230	3260	3660	4000	3120	3490

# 07126300 PURGATOIRE RIVER NEAR THATCHER, CO--Continued

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

Page			SPE	CIFIC CON	DUCTANCE	, (MICKOSI	EMENS/CM	@ 25 DEG. C	), WAIEK	I EAR OCI	OBER 1996 I	OSEPTEN	IDEK 1997
1	DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
2 3310 3190 3280 3800 3600 3600 3720 3150 3170 1170 1500 1500 1500 5 3400 3150 3260 3310 3730 3600 3860 3200 3150 3140 3160 1480 1480 1500 1500 5 3400 3150 3380 3870 3780 3820 3220 3290 3150 1880 1880 1890 5 3870 3870 3870 3870 3870 3870 3870 3870			FEBRUARY			MARCH			APRIL			MAY	
7 3410 3360 3390 3760 3680 3740 3288 3210 3250 2230 2080 2156 8 3500 3360 3360 3360 360 360 3650 3260 3260 3260 2230 2280 10 3430 3330 3390 3350 360 3600 3650 3260 3260 3260 2260 2260 10 3430 3370 3390 3550 3480 3500 3190 1140 3150 3060 2760 2260 11 3430 3370 3390 3550 3480 3540 3190 1140 3150 3060 2760 2260 11 3430 3360 3400 3400 3440 3440 3440 3460 3160 3270 3200 2270 3280 11 3420 3420 3420 3420 3420 3420 3420 3420	2 3 4	3310 3370 3350	3190 3260 3280	3280 3310 3310	3800 3730 3780	3650 3630 3700	3720 3680 3740	3200 3210 3230	3150 3140 3090	3170 3160 3180	1710 1880 1940	1450 1520 1840	1590 1670 1870
12   3440   3400   3420   3480   3440   3460   3360   3180   3270   3301   2960   2980   113   3350   3420   3470   3470   3450   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   3460   346	7 8 9	3410 3500 3510	3360 3390 3420	3390 3430 3460	3760 3680 3630	3680 3630 3550	3740 3650 3580	3280 3280 3220	3210 3220 3150	3250 3260 3170	2230 2380 2760	2080 2230 2380	2160 2290 2530
17	12 13 14	3440 3520 3500	3400 3420 3420	3420 3460 3470	3480 3460 3470	3440 3430 3450	3460 3440 3460	3360 3570 3750	3180 3160 3170	3270 3360 3410	3010 3200 3440	2960 2970 3190	2980 3060 3310
22 3510 3480 3500 3500 3250 3010 3140 3820 3290 3520 3910 2970 3470 24 3550 3480 3520 3290 3250 3010 3140 3820 3290 3520 3910 2970 3470 25 3570 3510 3540 3260 3230 3270 3380 3530 3680 3520 2070 2610 26 3570 3510 3540 3260 3230 3240 3890 2270 3320 2100 1940 2030 26 3570 3450 3510 3540 3260 3230 3240 3890 2270 3320 2100 1940 2030 27 3540 3440 3500 3310 3240 3270 2270 1210 1730 2060 1880 1970 28 3590 3420 3480 3503 3210 3240 3270 2430 1880 2240 1920 1850 1890 28 3590 3420 3480 3503 3210 3220 2600 1530 2300 1990 1840 1890 29 3260 3210 3220 1670 1440 1540 1990 1780 1840 30 3240 3230 3250 1670 1440 1540 1990 1780 1840 31 3240 3230 3230 3250 1670 1440 1540 1990 1740 1311 1770 1800 1840 31 1740 1660 1770  MONTH 3600 3180 3440 3870 2850 3400 3890 1210 3020 3910 1240 2530  MONTH 3600 3180 3440 3870 2850 3400 3890 1210 3020 3910 1240 2530  3 1770 1730 1750 1840 1770 1800 1900 200 1270 3110 2250 270 3 1770 1730 1750 1860 1790 1840 2350 475 1760 2830 1610 2280 1830 1790 1840 2850 2850 1850 1850 1850 1850 1850 1850 1850 1	17 18 19	3480 3540 3510	3450 3460 3440	3470 3500 3480	3490 3400 3080	3400 2940 2880	3450 3240 2970	3020 3150 3210	2790 3020 3120	2890 3110 3160	3310 3310 3300	3180 3220 3210	3230 3270 3260
27	22 23 24	3510 3510 3550	3480 3480 3480	3490 3500 3520	3010 3250 3290	2850 3010 3250	2930 3140 3270	3330 3820 3780	3230 3290 3530	3300 3520 3680	3630 3910 3520	2990 2970 2070	3350 3470 2610
Table   Tabl	27 28 29 30	3540 3590 	3440 3420 	3500 3480 	3310 3250 3250 3260	3240 3210 3210 3220	3270 3220 3220 3250	2430 2600 1670 1640	1880 1530 1400 1280	2240 2300 1540 1410	1920 1930 1900 1780	1850 1840 1780 1690	1890 1890 1840 1740
1   1770   1730   1750   1840   1770   1800   1900   200   1270   3110   2250   2700   22   1770   1730   1750   1860   1790   1840   2350   475   1760   2830   1610   2280   3   1790   1740   1770   1880   1850   1860   2140   1100   1470   1610   1440   1510   44   2000   1030   1760   1950   1870   1910   1880   1380   1720   2310   1550   1930   1550   1930   1870   1910   1880   1380   1720   2310   1550   1930   1870   1910   1880   1380   1720   2310   1550   1930   1870   1910   1880   1380   1720   2310   1550   1930   1870   1910   1880   1840   1700   2310   1550   1930   1870   1910   1880   1840   1840   2750   2190   2420   1920   1450   1710   3120   2390   2600   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800	MONTH	3600	3180	3440	3870	2850	3400	3890	1210	3020	3910	1240	2530
1   1770   1730   1750   1840   1770   1800   1900   200   1270   3110   2250   2700   22   1770   1730   1750   1860   1790   1840   2350   475   1760   2830   1610   2280   3   1790   1740   1770   1880   1850   1860   2140   1100   1470   1610   1440   1510   44   2000   1030   1760   1950   1870   1910   1880   1380   1720   2310   1550   1930   1550   1930   1870   1910   1880   1380   1720   2310   1550   1930   1870   1910   1880   1380   1720   2310   1550   1930   1870   1910   1880   1380   1720   2310   1550   1930   1870   1910   1880   1840   1700   2310   1550   1930   1870   1910   1880   1840   1840   2750   2190   2420   1920   1450   1710   3120   2390   2600   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800   2800													
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7 2090 1480 1840 2750 2190 2420 1920 1450 1710 3120 2390 2600 8 2030 1480 1690 3570 2750 3140 2270 1920 2070 2920 2340 2650 9 1910 1590 1640 3530 1970 2820 2530 2120 2370 2900 2640 2760 10 1620 1490 1540 1970 1500 1690 4290 1600 2280 2890 2330 2570 11 3420 1200 1800 1540 1970 1400 1400 1400 1400 1400 1400 1400 14			JUNE			JULY			AUGUST			SEPTEMBE	lR.
12 1590 1220 1488 1470 1450 1460 2010 1420 1690 2680 2410 2510 13 1660 1530 1580 1510 1460 1480 2240 1930 2080 2870 2590 2770 14 1720 1660 1690 1540 1500 1520 2430 2240 2300 2980 2870 2930 15 1760 1560 1670 1580 1530 1550 2700 2430 2600 3020 2960 2990 16 1760 1770 1670 1720 1630 1570 1670 2740 2670 2700 3050 2980 3010 17 1770 1670 1720 1630 1570 1600 2800 2700 2750 3040 2980 3000 18 1720 1430 1520 1650 1660 1660 2790 2760 2790 2860 2920 19 1610 1450 1540 1650 1620 1640 2970 2760 2830 2860 2810 2840 20 1750 1610 1680 1650 1630 1640 3020 2940 2990 2860 2820 2840 22 2680 2260 2530 2010 1700 1870 2580 2310 2450 3300 2890 3130 22 2680 2260 2530 2010 1700 1870 2580 2310 2450 3300 2890 3130 24 1690 1070 1390 2030 1090 1450 3170 2670 200 2410 3380 1290 2730 2730 24 1690 1070 1390 2030 1090 1450 3170 2670 200 2410 3380 1290 2730 24 1690 1070 1390 2030 1090 1450 3170 2670 200 2410 3380 1290 2730 25 2070 1330 1820 3390 2030 2630 3370 3160 3260 2010 1450 1630 1630 1640 3020 2940 2990 2860 2820 2860 2820 2840 2660 2820 2830 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2860 2830 2830 2830 2830 2830 2830 2830 283	2 3 4	1770 1790 2000	1730 1730 1740 1030	1750 1770 1760	1860 1880 1950	1770 1790 1850 1870	1840 1860 1910	1900 2350 2140 1880	200 475 1100 1380	1760 1470 1720	3110 2830 1610 2310	2250 1610 1440 1550	2700 2280 1510 1930
17       1770       1670       1720       1630       1570       1600       2800       2700       2750       3040       2980       3000         18       1720       1430       1520       1650       1600       1620       2790       2740       2770       2990       2860       2920         19       1610       1450       1540       1650       1620       1640       2970       2760       2830       2860       2810       2840         20       1750       1610       1680       1650       1630       1640       3020       2940       2990       2860       2820       2840         21       2260       1700       1900       1700       1640       1660       2970       2470       2810       2890       2820       2860         22       2680       2260       2530       2010       1700       1870       2580       2310       2450       3300       2890       3130         23       7020       825       1270       1900       1420       1770       2670       2200       2410       3380       1290       2730         24       1690       1070       1390 <td< td=""><td>2 3 4 5 6 7 8 9</td><td>1770 1790 2000 2240 2240 2090 2030 1910</td><td>1730 1730 1740 1030 1480 1840 1480 1480 1590</td><td>1750 1770 1760 2080 2130 1840 1690 1640</td><td>1860 1880 1950 2050 2190 2750 3570 3530</td><td>1770 1790 1850 1870 1940 2050 2190 2750 1970</td><td>1840 1860 1910 2000 2130 2420 3140 2820</td><td>1900 2350 2140 1880 1830 2670 1920 2270 2530</td><td>200 475 1100 1380 1530 1460 1450 1920 2120</td><td>1760 1470 1720 1610 1860 1710 2070 2370</td><td>3110 2830 1610 2310 2250 2520 3120 2920 2900</td><td>2250 1610 1440 1550 2060 2220 2390 2340 2640</td><td>2700 2280 1510 1930 2120 2400 2650 2760</td></td<>	2 3 4 5 6 7 8 9	1770 1790 2000 2240 2240 2090 2030 1910	1730 1730 1740 1030 1480 1840 1480 1480 1590	1750 1770 1760 2080 2130 1840 1690 1640	1860 1880 1950 2050 2190 2750 3570 3530	1770 1790 1850 1870 1940 2050 2190 2750 1970	1840 1860 1910 2000 2130 2420 3140 2820	1900 2350 2140 1880 1830 2670 1920 2270 2530	200 475 1100 1380 1530 1460 1450 1920 2120	1760 1470 1720 1610 1860 1710 2070 2370	3110 2830 1610 2310 2250 2520 3120 2920 2900	2250 1610 1440 1550 2060 2220 2390 2340 2640	2700 2280 1510 1930 2120 2400 2650 2760
22       2680       2260       2530       2010       1700       1870       2580       2310       2450       3300       2890       3130         23       7020       825       1270       1900       1420       1770       2670       2200       2410       3380       1290       2730         24       1690       1070       1390       2030       1090       1450       3170       2670       3010       2890       1290       1670         25       2070       1330       1820       3390       2030       2630       3370       3160       3260       2010       1450       1630         26       2910       1760       2490       3600       3240       3490       3350       3120       3250       2660       2010       2440         27       2730       1890       2160       3240       2600       2910       3180       3060       3100       2700       2620       2660         28       2040       1870       1960       3160       1060       2300       3100       1960       2740       2760       2570       2700         29       2020       1810       1910 <td< td=""><td>2 3 4 5 6 7 8 9 10 11 12 13 14</td><td>1770 1790 2000 2240 2240 2090 2030 1910 1620 3420 1590 1660 1720</td><td>1730 1740 1030 1480 1840 1480 1480 1590 1490 1200 1220 1530 1660</td><td>1750 1770 1760 2080 2130 1840 1690 1640 1540 1800 1480 1580 1690</td><td>1860 1880 1950 2050 2190 2750 3570 3530 1970 1500 1470 1510 1540</td><td>1770 1790 1850 1870 1940 2050 2190 2750 1970 1500 1470 1450 1460 1500</td><td>1840 1860 1910 2000 2130 2420 3140 2820 1690 1480 1460 1480 1520</td><td>1900 2350 2140 1880 1830 2670 1920 2270 2530 4290 1990 2010 2240 2430</td><td>200 475 1100 1380 1530 1460 1450 1920 2120 1600 1420 1420 1420 1930 2240</td><td>1760 1470 1720 1610 1860 1710 2070 2370 2280 1750 1690 2080 2300</td><td>3110 2830 1610 2310 2250 2520 3120 2920 2920 2900 2890 2690 2680 2870 2980</td><td>2250 1610 1440 1550 2060 2220 2390 2340 2640 2330 1870 2410 2590 2870</td><td>2700 2280 1510 1930 2120 2400 2650 2760 2570 2240 2510 2770 2930</td></td<>	2 3 4 5 6 7 8 9 10 11 12 13 14	1770 1790 2000 2240 2240 2090 2030 1910 1620 3420 1590 1660 1720	1730 1740 1030 1480 1840 1480 1480 1590 1490 1200 1220 1530 1660	1750 1770 1760 2080 2130 1840 1690 1640 1540 1800 1480 1580 1690	1860 1880 1950 2050 2190 2750 3570 3530 1970 1500 1470 1510 1540	1770 1790 1850 1870 1940 2050 2190 2750 1970 1500 1470 1450 1460 1500	1840 1860 1910 2000 2130 2420 3140 2820 1690 1480 1460 1480 1520	1900 2350 2140 1880 1830 2670 1920 2270 2530 4290 1990 2010 2240 2430	200 475 1100 1380 1530 1460 1450 1920 2120 1600 1420 1420 1420 1930 2240	1760 1470 1720 1610 1860 1710 2070 2370 2280 1750 1690 2080 2300	3110 2830 1610 2310 2250 2520 3120 2920 2920 2900 2890 2690 2680 2870 2980	2250 1610 1440 1550 2060 2220 2390 2340 2640 2330 1870 2410 2590 2870	2700 2280 1510 1930 2120 2400 2650 2760 2570 2240 2510 2770 2930
27     2730     1890     2160     3240     2600     2910     3180     3060     3100     2700     2620     2660       28     2040     1870     1960     3160     1060     2300     3100     1960     2740     2760     2570     2700       29     2020     1810     1910     2870     1080     1910     1960     1010     1370     2800     2700     2750       30     1860     1790     1830     1650     1100     1490     1290     882     1030     2880     2720     2790       31        1440     1040     1170     2250     1290     1680          MONTH     7020     825     1790     3600     1040     1930     4290     200     2250     3380     1290     2560	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	1770 1790 2000 2240 2240 2090 2030 1910 1620 3420 1590 1760 1770 1760 1770 1770 1720 1610	1730 1730 1740 1030 1480 1840 1480 1590 1490 1200 1220 1530 1660 1560	1750 1770 1760 2080 2130 1840 1690 1640 1540 1880 1690 1670 1740 1720 1520 1540	1860 1880 1950 2050 2190 2750 3570 3530 1970 1500 1470 1510 1540 1580	1770 1790 1850 1870 1940 2050 2190 2750 1970 1500 1470 1450 1460 1530 1550 1570 1600 1620	1840 1860 1910 2000 2130 2420 3140 2820 1690 1480 1480 1520 1550 1570 1600 1620 1640	1900 2350 2140 1880 1830 2670 1920 2270 2530 4290 1990 2010 2240 2430 2700 2740 2800 2790 2970	200 475 1100 1380 1530 1450 1920 2120 1600 1420 1420 1930 2240 2430 2670 2740 2760	1760 1470 1720 1610 1860 1710 2070 2370 2280 1750 1690 2080 2300 2600 2750 2750 2770 2830	3110 2830 1610 2310 2250 3120 2920 2920 2990 2890 2690 2870 2980 3020 3050 3040 2990 2860	2250 1610 1440 1550 2060 2220 2390 2340 2640 2330 1870 2410 2590 2870 2960 2980 2980 2980 2860 2810	2700 2280 1510 1930 2120 2400 2650 2760 2570 2240 2510 2770 2930 2990 3010 3000 2920 2840
MONTH 7020 825 1790 3600 1040 1930 4290 200 2250 3380 1290 2560	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	1770 1790 2000 2240 2240 2090 2030 1910 1620 3420 1750 1760 17760 17760 17760 17750 2260 2680 7020 1690	1730 1730 1740 1030 1480 1480 1590 1490 1200 1220 1530 1660 1560 1700 1430 1450 1610	1750 1770 1760 2080 2130 1840 1690 1640 1540 1800 1480 1580 1670 1740 1720 1520 1540 1680	1860 1880 1950 2050 2190 2750 3570 3530 1970 1510 1540 1650 1650 1650 1650 1650 1700 2010 1900 2030	1770 1790 1850 1870 1940 2050 2190 2750 1970 1500 1470 1450 1460 1530 1570 1620 1630 1640 1700 1420 1090	1840 1860 1910 2000 2130 2420 3140 2820 1690 1480 1480 1520 1550 1570 1600 1620 1640 1640 1660 1870 1770 1450	1900 2350 2140 1880 1830 2670 1920 2270 2530 4290 1990 2010 2240 2430 2700 2740 2800 2790 2970 3020	200 475 1100 1380 1530 1450 1920 2120 1600 1420 1420 1930 2240 2430 2670 2760 2940 2470 2310 2200 2670	1760 1470 1720 1610 1860 1710 2070 2370 2280 1750 1690 2080 2300 2600 2700 2770 2830 2990 2810 2450 2410 3010	3110 2830 1610 2310 2250 3120 2920 2920 2990 2890 2690 2870 2980 3020 3050 3040 2990 2860 2860 2860	2250 1610 1440 1550 2060 2220 2390 2340 2640 2330 1870 2410 2590 2870 2980 2980 2980 2810 2820 2820 2890 1290	2700 2280 1510 1930 2120 2400 2650 2760 2570 2240 2510 2770 2930 2990 3010 3000 2920 2840 2840 2860 3130 2730 1670
YEAR 7020 200 2950	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1770 1790 2000 2240 2240 2090 2030 1910 1620 3420 1590 1760 1770 1720 1750 2260 2680 7020 1690 2070 2910 2730 2040 2020 1860	1730 1730 1740 1030 1480 1480 1480 1590 1490 1220 1220 1530 1660 1560 1700 1430 1450 1610 1700 2260 825 1070 1330 1760 1890 1870 1870 1870	1750 1770 1770 1760 2080 2130 1840 1690 1640 1540 1800 1480 1580 1670 1740 1720 1520 1520 1540 1680 1900 2530 1270 1390 1820 2490 2160 1960 1910 1830	1860 1880 1950 2050 2190 2750 3570 3570 3533 1970 1510 1540 1550 1650 1650 1700 2010 1900 2030 3390 3600 3240 3160 2870 1650	1770 1790 1850 1870 1940 2050 2190 2750 1970 1500 1470 1450 1450 1530 1550 1570 1620 1630 1640 1700 1420 1090 2030 3240 2600 1060 1080 1100	1840 1860 1910 2000 2130 2420 3140 2820 1690 1480 1460 1480 1550 1570 1600 1620 1640 1640 1640 1640 2630 3490 2910 2300 1910 1490	1900 2350 2140 1880 1830 2670 1920 2270 2530 4290 1990 2010 2240 2430 2700 2740 2800 2790 2970 3020 2970 3170 3170 3180 3180 3100 1990	200 475 1100 1380 1530 1460 1450 1920 2120 1600 1420 1420 1930 2240 2430 2670 2740 2760 2940 2470 2310 2200 2670 3160 3160 3160 3160 1960 1910 882	1760 1470 1720 1610 1860 1710 2070 2280 1750 1690 2080 2300 2600 2750 2770 2830 2990 2810 2450 2410 3010 3260 3250 3100 2740 1370 1030	3110 2830 1610 2310 2250 3120 2920 2920 2990 2890 2690 2870 2980 3020 3050 3040 2990 2860 2860 2870 2990 2660 2890 3300 2890	2250 1610 1440 1550 2060 2220 2390 2340 2640 2330 1870 2410 2590 2870 2960 2980 2980 2880 2820 2820 2890 1290 1450 2610 2620 2570 2710 2720	2700 2280 1510 1930 2120 2400 2650 2760 2570 2240 2510 2770 2930 2990 3010 3000 2840 2840 2840 2860 3130 2730 1670 1630 2440 2660 2750 2750 2790
	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1770 1790 2200 2240 2240 2090 2030 1910 1620 3420 1750 1760 1770 1770 1770 1770 1750 2260 2680 7020 1690 2070 2910 2730 2040 2020 1860	1730 1730 1740 1030 1480 1480 1480 1590 1490 1200 1220 1530 1660 1560 1700 1430 1450 1610 1700 2260 825 1070 1330 1760 1890 1890 1890 1890	1750 1770 1776 2080 2130 1840 1690 1640 1540 1800 1480 1580 1670 1740 1720 1520 1520 1540 1680 2530 1270 1390 1270 1390 2490 2160 1910 1830	1860 1880 1950 2050 2190 2750 3570 3530 1970 1510 1540 1550 1650 1650 1650 1650 1900 2030 3390 3600 3240 3160 2870 1650 1650	1770 1790 1850 1870 1940 2050 2190 2750 1970 1500 1470 1450 1460 1530 1570 1620 1630 1640 1700 1420 1090 2030 3240 2600 1080 1100	1840 1860 1910 2000 2130 2420 3140 2820 1690 1480 1550 1570 1600 1620 1640 1640 1660 1870 1770 1450 2630 3490 2910 2300 1910 1490 1170	1900 2350 2140 1880 1830 2670 1920 2270 2530 4290 1990 2010 2240 2430 2700 2740 2800 2970 3020 2970 3370 3370 3350 3180 3180 31960 1290 2250	200 475 1100 1380 1530 1450 1920 2120 1600 1420 1420 1930 2240 2430 2760 2740 2760 2940 2470 2310 2200 2670 3160 3120 3060 1910 882 1290	1760 1470 1720 1610 1860 1710 2070 2370 2280 1750 1690 2080 2300 2600 2770 2830 2990 2810 2410 3010 3260 3250 3100 2450 2410 3010 3260	3110 2830 1610 2310 2250 3120 2920 2920 2900 2890 2680 2870 2980 3050 3040 2990 2860 2860 2860 2870 2980 3050 3040 2990 2860 2860 2870 2980 3050 3050 3050 3050 3050 3050 3050 30	2250 1610 1440 1550 2060 2220 2390 2340 2640 2330 1870 2410 2590 2870 2960 2980 2980 2880 2810 2820 2820 2820 2820 2820 28	2700 2280 1510 1930 2120 2400 2650 2760 2570 2240 2510 2770 2930 2990 3010 3000 2920 2840 2840 2860 3130 2730 1670 1630 2440 2660 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750 2750

# 07126300 PURGATOIRE RIVER NEAR THATCHER, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			OVEMBER			ECEMBER			JANUARY	
1 2 3 4 5	18.7 17.2 17.0 16.6 18.6	15.0 14.7 13.5 13.8 14.4		8.4 8.8 8.6 9.9 9.8		7.0 7.2 7.5 8.4 8.3	2.3 2.3 1.3 1.2	.3 .3 .1 .1	1.3 1.2 .6 .5	1.3 1.8 .4		.7 .8 .2
6 7 8 9 10	18.8 17.4 17.9 17.7 18.0	15.2 14.1 14.2	16.9 16.4 15.8 15.9 16.1	8.7 7.9 7.0 7.5 7.6	6.7 5.7 4.5 4.7 5.1	7.7 6.8 5.8 6.1 6.3	1.9 2.2 2.9 3.6 4.4	.4 .3 .3 1.1 1.9	1.1 1.1 1.5 2.2 3.0	.5 .5 .3 .3	.1 .1 .1 .1	.2 .3 .2 .2
11 12 13 14 15	18.5 18.6 18.5 17.6 18.1	14.8 14.6		7.9 7.4 7.6 7.6 7.1	5.0 5.3 5.0 6.0 6.1	6.4 6.1 6.2 6.8 6.6	4.8 4.5 4.1 3.6 2.1	2.5 2.4 2.0 1.8	3.5 3.4 3.1 2.6 1.2	.3 .3 .3 .3		.2 .2 .2 .2
16 17 18 19 20	16.9 15.3 13.7 13.4 13.1	14.4 12.7 10.5 11.3 10.8	15.7 13.9 12.1 12.3 11.9	6.1 5.6 6.1 7.7 8.4						. 2 . 2 . 3 . 4 . 4	.1 .1 .1 .1	.2 .2 .2 .2
21 22 23 24 25	11.0 9.1 10.0 10.7 10.4	7.4 5.5 6.4 7.4 8.2		8.3 8.8 8.1 6.0 5.4						.5 .4 .5 .6		.2 .2 .2 .2
26 27 28 29 30 31	9.0 6.6 8.4 8.0 8.9	6.4 4.3 4.5 5.9 6.2 6.4	7.6 5.3 6.4 7.1 7.4 6.8	4.1 4.0 3.4 4.5 3.5	3.0 2.3 1.5 2.5 1.5					.8 .2 .8 .9 1.6 2.4		.3 .2 .4 .4 .6
MONTH	18.8	4.3	12.6	9.9	1.5	5.9	4.8	.1	1.0	2.4	.1	.3
		FEBRUA	RY		MARCH			APRIL	ı		MAY	
1 2 3 4 5	3.1 3.9 5.0 4.0 3.3	1.0 1.4 2.3 1.6	2.0 2.7 3.4 2.7 2.1	6.7 7.5 8.4 7.9 7.9	3.1 3.6 4.6 4.9 3.9	4.7 5.5 6.4 6.2 5.8	13.3 12.0 10.2 13.2 12.0	9.5 8.6 8.0 8.4 9.1	11.5 10.0 9.1 10.5 10.4	16.2 15.4 17.0 18.9 20.0	12.1 12.5 11.3 12.9 15.3	14.1 13.8 13.9 15.7 17.4
6 7 8 9 10	2.2 2.7 2.9 3.1 3.4		1.6 1.3 1.5 1.8	9.2 9.9 10.0 10.8 11.4	4.7 5.8 6.3 6.7	6.8 7.7 8.1 8.6 9.1	12.0 13.0 11.5 12.2 10.1	7.5 8.1 8.6 7.3 4.7	9.6 10.4 10.0 9.6 7.4	18.4 17.6 16.1 18.9 20.9	15.6 15.0 13.5 12.9 14.7	16.9 16.3 14.5 15.5
11 12 13 14 15	3.2 4.0 2.9 3.4 4.8	1.2 .8 1.4 .1	2.2 2.4 2.0 1.6 2.8	12.3 12.9 12.0 9.5 8.8	7.8 8.4 9.3 6.9 5.1	9.9 10.6 10.6 8.0 6.9	5.7 7.2 10.0 11.1 13.7	2.8 2.3 4.7 6.4 7.9	4.1 4.6 7.2 8.8 10.7	20.7 20.7 21.6 21.3 23.1	16.0 15.1 15.9 16.8 16.5	18.4
16 17 18 19 20	5.9 7.2 8.0 7.5 7.5	2.1 4.1 4.6 6.1 5.0	4.0 5.6 6.4 6.6 6.1	10.4 10.4 12.4 13.5 14.9	5.9 7.9 8.5 8.5 9.8	8.0 9.2 10.3 10.9 12.2	16.4 17.6 17.2 18.0 19.1	11.0 12.1 13.2 12.8 14.3	13.4 14.6 15.2 15.3 16.5	23.9 24.4 22.7 19.9 21.8	18.3 18.7 19.6 16.5 15.5	20.9 21.4 21.1 17.6 18.4
21 22 23 24	5.9 6.2	4.2 2.8 2.1	4.9 4.5 3.6	15.2 15.5 14.1	11.2 11.1 12.0 8.9	13.1 13.2 13.0 11.5	18.3 16.5 15.7 13.8	15.3 13.0 13.0 9.9	16.6 14.7 14.3 11.6	20.9 20.3 21.5 20.9	17.2 17.3 17.6 17.7	19.0 19.0 19.6 19.3
25	5.0 3.1 5.3	1.1	2.1 3.2	13.0 11.6	7.1	9.2	10.0	8.2	9.1	20.9	16.7	18.8
	3.1	1.1	2.1						9.1 8.0 9.8 12.4 13.6 14.0			

# 07126300 PURGATOIRE RIVER NEAR THATCHER, CO--Continued

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

				TENT ENGINE	,	SIT (DEG. C),	,	ocrop		DEI TEMBEI		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1 2 3 4 5	24.0 24.4 25.0 25.7 25.3	19.8 20.5 20.9 17.3 19.5	22.0 22.3 22.8 22.1 22.4	26.5 25.4 23.8 24.8 24.9	21.1 20.9 20.4 20.7 19.9	23.5 23.0 22.1 22.6 22.1	27.2 26.4 25.6 27.2 25.0	19.8 20.5 22.3 23.1 22.7	23.3 23.7 24.1 25.0 23.7	23.8 24.3 24.3 25.0 25.8	20.8 21.6 21.1 20.2 21.9	22.4 22.6 22.7 22.6 23.8
6 7 8 9 10	23.4 21.1 21.0 21.4 21.6	20.3 19.0 18.3 17.9 18.5	21.8 20.1 19.5 19.6 20.0	25.0 23.9 24.7 25.4 24.6	19.1 19.0 20.2 20.8 20.7	21.7 21.7 22.5 23.0 22.5	22.7 22.8 24.4 25.3 23.1	19.6 18.9 19.6 21.1 20.2	21.2 20.5 21.9 22.9 21.9	25.2 24.5 25.0 23.2 23.9	21.8 21.4 21.0 20.2 18.8	23.5 22.9 22.9 21.2 21.0
11 12 13 14 15	21.5 22.2 22.2 22.3 21.6	18.1 18.0 19.1 19.1 18.7	19.7 19.9 20.7 20.6 20.1	26.1 26.9 27.7 29.3 27.5	20.5 21.9 21.3 22.8 23.5	23.1 24.2 24.3 25.5 25.4	24.1 25.3 26.3 25.9 26.5	20.1 21.2 22.1 22.0 21.1	21.8 23.1 24.0 23.9 23.8	24.1 23.9 24.4 25.0 25.2	20.0 20.2 19.8 20.5 20.4	21.9 21.9 22.1 22.5 22.6
16 17 18 19 20	20.7 22.0 24.0 24.0 25.5	18.7 17.5 19.1 20.3 20.9	19.6 19.7 21.4 22.4 23.1	29.1 28.1 27.3 26.4 25.9	23.4 22.8 22.6 23.1 22.7	25.6 25.4 24.9 24.7 24.3	26.4 25.8 25.6 25.9 26.7	21.6 22.3 21.6 21.5 22.0	24.0 23.7 23.4 23.6 24.0	25.0 24.4 23.4 23.7 21.2	21.1 20.1 20.0 20.2 16.5	22.7 22.1 21.8 21.7 17.9
21 22 23 24 25	26.1 26.4 23.3 21.9 23.0	20.7 21.9 7.8 15.5 17.4	23.3 24.0 13.2 18.6 20.1	27.3 27.9 28.2 28.0 29.0	22.4 22.7 22.9 21.7 23.6	24.9 25.0 24.9 24.6 26.1	26.3 26.7 27.3 27.4 27.1	21.6 22.3 22.0 22.4 22.7	24.0 24.3 24.5 24.7 24.8	17.2 19.1 17.6 16.4 18.2	15.5 15.6 14.1 13.3 14.3	16.3 17.2 15.9 14.8 16.1
26 27 28 29 30 31	23.7 24.2 24.5 25.3 26.4	17.8 19.0 19.2 20.4 21.0	21.0 21.5 22.1 22.9 23.6	29.7 29.0 27.9 24.6 25.3 25.1	24.1 24.0 20.5 21.7 21.9 21.5	26.3 26.2 24.2 22.9 23.3 23.2	27.0 27.5 27.1 26.8 24.1 23.4	23.0 22.6 23.6 22.8 21.9 21.4	25.0 25.0 25.4 24.5 22.9 22.4	19.9 21.4 20.9 21.0 21.2	15.9 17.7 18.1 17.2 17.3	17.7 19.4 19.3 18.9 19.2
MONTH	26.4	7.8	21.0	29.7	19.0	24.0	27.5	18.9	23.6	25.8	13.3	20.6
YEAR	29.7	.1	12.6									

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

TIME		(MG/L)	SUS- PENDED (T/DAY)
1310	9.5	49	1.3
1025	24	106	6.9
1540	26	68	4.8
1415	23	50	3.1
1330	20	29	1.6
1315	48	913	118
1300	32	48	4.1
1255	1.5	29	0.12
1540 1545	23 23	165 168	10 10
	1310 1025 1540 1415 1330 1315 1300 1255	CHARGE, INST. CUBIC FEET PER SECOND (00061)  1310 9.5  1025 24  1540 26  1415 23  1330 20  1315 48  1300 32  1255 1.5  1540 23	TIME CHARGE, INST. SEDI- CUBIC MENT, FEET SUS- PER PENDED (MG/L) (80154)  1310 9.5 49  1025 24 106  1540 26 68  1415 23 50  1330 20 29  1315 48 913  1300 32 48  1255 1.5 29  1540 23 165

## 07126325 TAYLOR ARROYO BELOW ROCK CROSSING NEAR THATCHER, CO

 $LOCATION.--Lat~37^{o}25'26", long~103^{o}55'09", in~SE^{1/4}SE^{1/4}~sec.17, T.30~S., R.58~W., Las~Animas~County, Hydrologic~Unit~11020010, on left bank~1.6~mi~southeast~of~Rock~Crossing, 5~mi~upstream~from~mouth, and 13.5~mi~southeast~of~Thatcher.$ DRAINAGE AREA.--48.4 mi².

## WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder with satellite telemetry, concrete control, and crest-stage gage. Elevation of gage is 4,982 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good except those above 6 ft³/s, which are fair.

			DISCHARO	_		OND, WAT	TER YEAR OC AN VALUES	TOBER 199	6 TO SEPT	EMBER 1997		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .03 2.2	.00 .00 .00 .00
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00	4.4 2.6 .11 .02 .00	.00 .00 .00 .00
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00	.00	.00 .00 .00 .00	.00 .00 .00 .00
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00
26 27 28 29 30 31	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 3.5 .93 .02	.00 .00 .00 .00 .00	.00 .00 .00 .00
TOTAL MEAN MAX MIN AC-FT	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	4.45 .14 3.5 .00 8.8	9.36 .30 4.4 .00	0.00 .000 .00 .00
STATIST	ICS OF MO	NTHLY MEA	N DATA FO	R WATER Y	EARS 1983	- 1997,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	.018 .14 1987 .000 1984	.000 .000 1991 .000 1984	.000 .000 1984 .000 1984	.000 .000 1984 .000 1984	.000 .000 1984 .000 1984	.000 .000 1984 .000 1984	.022 .33 1983 .000 1984	.52 7.09 1995 .000 1983	.57 3.78 1995 .000 1984	.71 7.60 1989 .000 1983	.55 2.72 1987 .000 1988	.028 .30 1986 .000 1983
SUMMARY	STATISTI	CS	FOR 1	996 CALEN	DAR YEAR	F	OR 1997 WAT	TER YEAR		WATER YE	ARS 1983	- 1997
LOWEST I HIGHEST LOWEST I ANNUAL S	MEAN ANNUAL MEANNUAL MEALLY ME	AN AN N MINIMUM		13.84 .03	8 Aug 28 Jan 1		13.81 .038 4.4 b.00 .00	Aug 11 Oct 1 Oct 1 Jul 28		.21 a.94 a.03 144 b.00 .00	8 Jul 3 Mar 1 Mar 1	1995 1996 31 1989 18 1983 18 1983 31 1989
INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				27 .00 .00			5.34 27 .00 .00	Jul 28		10.96 156 .00 .00		31 1989

a-Also occurred 1997 water year. b-No flow most of the time.

b-no flow most of the time. c-From rating curve extended above 3.1 ft 3 /s on basis of area-velocity study. d-From rating extended to peak flow on the basis of slope-area measurement.

## 07126325 TAYLOR ARROYO BELOW ROCK CROSSING NEAR THATCHER, CO--Continued WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD .-- March 1983 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry. Pumping sediment sampler since Aug. 5, 1983.

REMARKS.--Records for daily specific conductance are good, except for conductances below 50 microsiemens, which are fair. Records for daily water temperature are good, except for discharges below 0.5 ft³/s, which are fair. Only maximum and minimum specific conductance and water temperature data are published for days of partial flow, including July 28-30 and Aug. 9-14. Daily data that are not published are either missing, during periods of no flow, or are of unacceptable quality. Daily suspended sediment records are good except for July 28, which are fair, and Aug. 9, which are poor. Daily mean suspended-sediment concentrations are published for days of partial flow and may not reflect concentrations during the flow event, including July 28 and Aug. 9.

#### EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 2,520 microsiemens, Aug. 20, 1984; minimum, 37 microsiemens, July 28, 1997. WATER TEMPERATURE: Maximum, 32.0°C, Aug. 11, 1987; minimum, 0.0°C, Apr. 2, 1988. SEDIMENT CONCENTRATIONS: Maximum daily mean, 15,300 mg/L, Aug. 22, 1984; no flow most of the time.

SEDIMENT LOAD: Maximum daily mean, 4,910 tons, Aug. 9, 1987; no flow most of the time.

## EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 346 microsiemens, Aug. 10; minimum, 37 microsiemens, July 28.

WATER TEMPERATURE: Maximum, 26.4°C, Aug. 14; minimum, 13.1°C, July 28.

A.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 734 mg/L, Aug. 11; minimum daily mean, 124 mg/L, July 30, no flow most

SEDIMENT LOAD: Maximum daily, 23 tons, Aug. 11; minimum daily mean, 0.01 ton, July 30, Aug. 9, 14, no flow most of the time.

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
UG 12 12	1420 1425	0.55 0.55	740 739	1.1 1.1

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	VEMBER		DE	CEMBER			JANUARY	
1												
2												
3												
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30												
31												
MONTH												

# 07126325 TAYLOR ARROYO BELOW ROCK CROSSING NEAR THATCHER, CO--Continued

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

FERRUARY	DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
2			FEBRUARY			MARCH			APRIL			MAY	
2	1												
## Company of the com													
5	3												
6													
7	5												
8													
9													
10													
122													
122													
133													
14													
15													
177													
177	16												
19	17												
20													
21													
222													
23													
24													
26													
27													
27													
28													
29													
MONTH    JUNE   JULY   AUGUST   SEPTEMBER													
MONTH													
JUNE JULY AUGUST SEPTEMBER  1	31												
JUNE JULY AUGUST SEPTEMBER  1	MONTELL												
1	PIONTII												
2													
\$\frac{4}{5}\$ \\			JUNE			JULY		Α	AUGUST		٤	SEPTEMBE	R
4													
5	2												
6	2												
7	2 3 4		  					  			  		  
8	2 3 4 5							  			  		
9	2 3 4 5												
10	2 3 4 5 6 7										====		
12	2 3 4 5 6 7 8					  		  			=== === === ===		
12	2 3 4 5 6 7 8 9				    		   	    218	    150		  		
13	2 3 4 5 6 7 8 9				    		   	   218 346	    150 134	    293	=== === === === ===		
14	2 3 4 5 6 7 8 9 10				    			    218 346	    150 134	     293			
15	2 3 4 5 6 7 8 9 10				    		  	    218 346 278 208	   150 134 144 164	    293 259			
17	2 3 4 5 6 7 8 9 10 11 12 13				    		==== ==== ==== ==== ====	    218 346 278 208 242	   150 134 144 164 205	    293 259 182 225			
17	2 3 4 5 6 7 8 9 10 11 12 13 14				    		  	    218 346 278 208 208 242 275	   150 134 144 164 205 231	    293 259 182 225			
18	2 3 4 5 6 7 8 9 10 11 12 13 14 15							    218 346 278 208 242 275	   150 134 144 164 205 231	    293 259 182 225			
19	2 3 4 5 6 7 8 9 10 11 12 13 14 15							   218 346 278 208 242 275	   150 134 144 164 205 231	    293 259 182 225 			
21	2 3 4 5 6 7 8 9 10 11 12 13 14 15	      			       		      	   218 346 278 208 242 275 	   150 134 144 164 205 231	   293 259 182 225			
22	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18				      			   218 346 278 208 242 275 	   150 134 144 205 231	259 182 225			
22	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19							   218 346 278 208 242 275 	  150 134 144 164 205 231 	   293 259 182 225 			
23	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20				        			   218 346 278 208 242 275 	   150 134 144 205 231 	259 182 225			
24	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21							   218 346 278 208 242 275 	  150 134 144 164 205 231 	   293 259 182 225 			
26	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22							   218 346 278 208 242 275 	   150 134 144 164 205 231 	293 259 182 225			
27 203 37	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24							  218 346 278 208 242 275 	  150 134 144 164 205 231 	293 259 182 225			
28 203 37	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24							  218 346 278 208 242 275 	  150 134 144 164 205 231 	293 259 182 225			
29 273 203 246 303 271 31	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26							218 346 278 208 242 275	  150 134 144 205 231 	293 259 182 225 			
30 303 271 31	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27							218 346 278 208 242 275	150 134 144 164 205 231	  293 259 182 225 			
31	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28							218 346 278 208 242 275	150 134 144 205 231	293 259 182 225 			
MONTH	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29							  218 346 278 208 242 275 	150 134 144 164 205 231	293 259 182 225			
	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 20 21 21 21 21 21 21 21 21 21 21 21 21 21							218 346 278 208 242 275	150 134 144 164 205 231	293 259 182 225			

# 07126325 TAYLOR ARROYO BELOW ROCK CROSSING NEAR THATCHER, CO--Continued

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

				TEMI ERRITO								
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	VEMBER		DE	CEMBER			JANUARY	
1												
2												
3												
4 5												
6 7												
8												
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12 13												
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MONTH												
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		FEBRUARY			MARCH			APRIL			MAY	
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2 3 4 5 6 7				  								
2 3 4 5				  								
2 3 4 5 6 7 8		   		   	  							
2 3 4 5 6 7 8 9		     							   	   		
2 3 4 5 6 7 8 9 10				   		   			   			  
2 3 4 5 6 7 8 9 10 11 12 13				     					==== ==== ==== ==== ====	     		==== ==== ==== ==== ====
2 3 4 5 6 7 8 9 10 11 12 13 14				     					  			     
2 3 4 5 6 7 8 9 10 11 12 13 14 15				       								
2 3 4 5 6 7 8 9 10 11 12 13 14 15												
2 3 4 5 6 7 8 9 10 11 12 13 14 15				       								
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18				        								
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30												

## 07126325 TAYLOR ARROYO BELOW ROCK CROSSING NEAR THATCHER, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		S	SEPTEMBE	R
										_		
1												
2												
3												
4												
5												
6												
7												
8												
9							23.1	20.9				
10							24.1	19.2	21.2			
11							24.5	18.4	21.1			
12							26.2	17.9	21.5			
13							24.4	20.3	22.1			
14							26.4	19.5				
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28				18.3	13.1							
29				25.6	18.3	21.4						
30				25.7	20.7							
31												
MONTH												

# ${\tt SEDIMENT\ DISCHARGE, SUSPENDED\ (TONS/DAY), WATER\ YEAR\ OCTOBER\ 1996\ TO\ SEPTEMBER\ 1997}$

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L) OCTOBER	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER		•	NOVENDER		Di	CEMBER	
1 2 3	.00			.00 .00 .00			.00 .00 .00		
4	.00			.00			.00		
5	.00			.00			.00		
6 7	.00			.00			.00		
8	.00						.00		
9	.00			.00			.00		
10	.00			.00			.00		
11 12	.00			.00			.00		
13	.00			.00			.00		
14				.00					
	.00						.00		
15	.00			.00			.00		
16 17	.00			.00			.00		
18	.00			.00			.00		
19	.00			.00			.00		
20	.00			.00			.00		
20	.00			.00			.00		
21 22	.00			.00			.00		
23	.00			.00			.00		
24	.00			.00			.00		
25	.00			.00			.00		
25	.00			.00			.00		
26 27	.00			.00			.00		
28	.00			.00			.00		
29	.00			.00			.00		
30	.00			.00			.00		
				.00					
31	.00						.00		
TOTAL	0.00			0.00			0.00		

# 07126325 TAYLOR ARROYO BELOW ROCK CROSSING NEAR THATCHER, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	.00			.00			.00		
2	.00			.00			.00		
4	.00			.00			.00		
5	.00			.00			.00		
6	.00			.00			.00		
7	.00			.00			.00		
8	.00			.00			.00		
9 10	.00			.00			.00		
11 12	.00			.00			.00		
13	.00			.00			.00		
14	.00			.00			.00		
15	.00			.00			.00		
16	.00			.00			.00		
17 18	.00			.00			.00		
19	.00			.00			.00		
20	.00			.00			.00		
21	.00			.00			.00		
22	.00			.00			.00		
23	.00			.00			.00		
24 25	.00			.00			.00		
26	.00			.00			.00		
27 28	.00			.00			.00		
29	.00						.00		
30 31	.00						.00		
31	.00						.00		
TOTAL	0.00			0.00			0.00		
		APRIL			MAY			JUNE	
1 2	.00			.00			.00		
3	.00			.00			.00		
4	.00			.00			.00		
5	.00			.00			.00		
6	.00			.00			.00		
7 8	.00			.00			.00		
9	.00			.00			.00		
10	.00			.00			.00		
11	.00			.00			.00		
12	.00			.00			.00		
13	.00			.00			.00		
14 15	.00			.00			.00		
1.0	0.0			0.0			0.0		
16 17	.00			.00			.00		
18	.00			.00			.00		
19	.00			.00			.00		
20	.00			.00			.00		
21	.00			.00			.00		
22 23	.00			.00			.00		
24	.00			.00			.00		
25	.00			.00			.00		
26	.00			.00			.00		
27 28	.00			.00			.00		
29	.00			.00			.00		
30	.00			.00			.00		
31				.00					
TOTAL	0.00			0.00			0.00		

# 07126325 TAYLOR ARROYO BELOW ROCK CROSSING NEAR THATCHER, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST		SI	EPTEMBER	
1	.00			.00			.00		
2	.00			.00			.00		
3	.00			.00			.00		
4	.00			.00			.00		
5	.00			.00			.00		
6	.00			.00			.00		
7	.00			.00			.00		
8	.00			.00			.00		
9	.00			.03		.01	.00		
10	.00			2.2	348	1.8	.00		
11	.00			4.4	446	23	.00		
12	.00			2.6	734	5.4	.00		
13	.00			.11	541	.18	.00		
14	.00			.02	285	.01	.00		
15	.00			.00			.00		
16	.00			.00			.00		
17	.00			.00			.00		
18	.00			.00			.00		
19	.00			.00			.00		
20	.00			.00			.00		
21	.00			.00			.00		
22	.00			.00			.00		
23	.00			.00			.00		
24	.00			.00			.00		
25	.00			.00			.00		
26	.00			.00			.00		
27	.00			.00			.00		
28	3.5	237	12	.00			.00		
29	.93	501	1.9	.00			.00		
30	.02	124	.01	.00			.00		
31	.00			.00					
TOTAL	4.45			9.36			0.00		

## 07126485 PURGATOIRE RIVER AT ROCK CROSSING NEAR TIMPAS, CO

LOCATION.--Lat 37°37'10', long 103°35'32" in NE¹/4SE¹/4 sec.10, T.28 S., R.55 W., Las Animas County, Hydrologic Unit 11020010, on right bank at Rock Crossing, 2.1 mi upstream from Minnie Canyon, 2.4 mi downstream from Beaty Canyon, and 17 mi southeast of Timpas.

DRAINAGE AREA.--2,635 mi².

#### WATER-DISCHARGE RECORDS

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

REVISED RECORD.--WDR CO-87-1: 1984-86 (M).

GAGE.--Water-stage recorder with satellite telemetry, and crest-stage gages. Elevation of gage is 4,350 ft above sea level, from topographic map. June 1, 1983 to July 17, 1985, at site 500 ft downstream at same datum.

REMARKS.--Records good except Mar. 12 to July 14 and for discharges above 1,000 ft3/s, which are fair, and estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 30,000 acres. Peak flows are regulated to some extent by Trinidad Dam, 92 mi upstream.

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	24 20 19 17 13	46 39 35 33 32	32 33 29 29 25	33 33 32 32 29	32 32 32 31 30	33 32 34 32 30	25 25 25 23 24	73 52 40 31 24	52 51 43 37 583	14 12 9.4 7.1 6.0	38 626 105 112 81	17 54 40 29 23
6 7 8 9 10	11 12 12 11 11	31 30 28 27 27	28 33 32 34 34	26 e26 e24 e21 e20	30 29 28 27 27	28 27 27 26 26	23 20 21 19 20	22 19 18 16 16	291 544 139 100 86	4.6 4.0 3.8 20 23	45 203 90 66 213	21 19 33 37 23
11 12 13 14 15	11 11 12 12	28 30 31 30 30	35 36 34 e32 e29	e20 e18 e19 e20 e23	29 28 28 27 28	25 24 24 24 24	18 17 17 28 33	16 17 16 15 14	164 178 101 92 66	21 14 10 7.4 5.6	241 431 61 42 33	18 18 19 16 14
16 17 18 19 20	11 11 11 17 23	31 31 31 31 30	e25 e20 e16 e18 e21	e24 e25 e28 e31 e32	26 28 28 29 29	34 29 27 29 27	33 30 24 21 19	14 15 13 12	62 63 72 64 39	4.3 3.8 3.5 17 25	30 27 24 21 42	12 10 9.3 8.9 9.0
21 22 23 24 25	23 24 23 21 22	31 30 29 29 29	e24 e26 e27 e27 e26	e33 e33 e33 e32 e31	29 29 31 32 33	24 23 23 24 25	17 17 15 17 29	11 11 22 43 46	44 35 105 73 34	9.4 3.8 e1.9 e1.1	30 24 25 25 22	9.6 11 15 190 74
26 27 28 29 30 31	22 32 33 33 56 62	31 31 31 32 32	e26 e27 e28 e28 e30 32	e30 e30 28 e29 e30 e30	34 33 33 	25 25 27 28 26 25	76 84 96 164 115	44 43 42 44 49 53	34 90 38 23 18	12 12 12 345 102 53	21 41 23 18 18	50 44 37 35 30
TOTAL MEAN MAX MIN AC-FT	632 20.4 62 11 1250	936 31.2 46 27 1860	876 28.3 36 16 1740	855 27.6 33 18 1700	832 29.7 34 26 1650	837 27.0 34 23 1660	1095 36.5 164 15 2170 BY WATER Y	863 27.8 73 11 1710	3321 111 583 18 6590	778.7 25.1 345 1.1 1540	2794 90.1 626 16 5540	925.8 30.9 190 8.9 1840
MEAN MAX (WY) MIN (WY)	38.7 74.3 1986 13.0 1990	38.1 52.8 1987 20.5 1990	33.6 42.9 1987 15.6 1991	31.3 41.4 1984 17.4 1991	34.1 56.0 1988 22.7 1991	41.9 104 1993 19.7 1991	84.5 330 1993 16.8 1989	129 585 1987 5.81 1991	121 836 1983 9.65 1990	72.9 186 1992 11.2 1989	109 167 1996 39.1 1985	47.2 98.6 1993 12.5 1990
SUMMARY	STATISTI	CS	FOR 1	996 CALEN	DAR YEAR	F	OR 1997 WAT	ER YEAR		WATER YEA	ARS 1983	- 1997
LOWEST		AN		18518.0 50.6	Aug 30		14745.5 40.4	Aug 2		60.6 123 29.6 3680	Mass f	1987 1989 30 1995
LOWEST ANNUAL INSTANT	DAILY MEA SEVEN-DAY ANEOUS PE	N MINIMUM AK FLOW		e _{2.3}	Jul 9 Jul 3		e _{1.1} 6.7 2950	Jul 24 Jul 2 Jun 5		a.00 .00 b ₁₁₄₀₀	Jun 3 Jun 3 Jul	30 1990 30 1990 9 1992
ANNUAL 10 PERC 50 PERC	ANEOUS PE RUNOFF (A ENT EXCEE ENT EXCEE ENT EXCEE	C-FT) DS DS		36730 59 28 11			11.73 29250 63 28 12	Jun 5		43920 116 35 14	Jul	9 1992

a-Also occurred Jul 1-9, 1990. b-From rating curve extended above  $4300~{\rm ft}^3/{\rm s}$ , on basis of slope-area measurement of peak flow. c-From floodmarks.

# 07126485 PURGATOIRE RIVER AT ROCK CROSSING NEAR TIMPAS, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD .-- October 1982 to current year.

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: July 1983 to September 1992. WATER TEMPERATURE: July 1983 to September 1992.

SUSPENDED SEDIMENT: August 1983 to September 1992, June to September 1997 (peak flows only).

INSTRUMENTATION.--Pumping sediment sampler since June 1997.

REMARKS.--Records for daily sediment during peak flows are good except for July 19, which is fair, and June 23-24, 26-27, July 9-10, and Aug. 5, 7, 11, which are poor. Daily sediment records are publisched for days when instantaneous discharge exceeds 100 ft³/s. Daily maximum and minimum specific conductance and daily mean water temperature data for July 1983 to September 1992 are available in district office.

#### EXTREMES FOR PERIOD OF RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 5,590 microsiemens, July 13, 1991; minimum, 202 microsiemens, Aug. 11, 1991. WATER TEMPERATURE: Maximum, 36.8°C, June 27, 1990; minimum 0.0°C, on many days during the winter in most years. SEDIMENT CONCENTRATIONS: Maximum daily, 54,900 mg/L, Aug. 16, 1986; minimum daily, 5 mg/L, Mar. 22, 1988, and Feb. 10, 1989.

SEDIMENT LOADS: Maximum daily, 160,000 tons, July 9, 1992; minimum daily, 0.0 tons (estimated), on several days during 1989 and 1990.

#### EXTREMES FOR CURRENT YEAR .--

SEDIMENT CONCENTRATIONS: Maximum daily mean for peak flows only, 5,290 mg/L, Aug. 2; minimum daily mean, 83 mg/L, July 19.

SEDIMENT LOADS: Maximum daily mean, 12,600 tons, Aug. 2; minimum daily mean, 15 tons (estimated), July 19.

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	(MG/L)	
OCT				
01	1125	25	55	3.7
NOV 07 DEC	1120	30	50	4.1
09 JAN	1340	37	48	4.8
28 MAR	1355	40	30	3.2
12 MAY	1125	25	32	2.2
02 JUN	1655	47	525	67
06 JUL	1530	50	720	97
14	1220	7.3	40	0.79
29	1545	232	3390	
29	1550	232	3220	2020
30 AUG	1005	115	943	293
11	1420	169	1300	593
19	1140	22	78	4.6
SEP				
12	1600	20	50	2.7
12	1605	20	62	3.3
30	1745	27	116	8.5

### MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 1996					JUL 1997				
01	1125	25	3150	18.0	14	1220	7.3	2240	28.5
NOV					29	1545	232	1420	23.5
07	1120	30	3630	7.5	29	1550	232	1420	23.5
DEC					30	1005	115	880	22.0
09	1340	37	3530	5.0	AUG				
JAN 1997					11	1420	169	1930	25.0
28	1355	40	3160	2.5	19	1140	22	2220	25.5
MAR					SEP				
12	1125	25	3650	12.5	12	1600	20	2130	26.0
MAY					12	1605	20	2130	26.0
02	1655	47	1610	16.0	30	1745	27	1890	22.0
JUN									
06	1530	50	441	18.0					

# 07126485 PURGATOIRE RIVER AT ROCK CROSSING NEAR TIMPAS, CO--Continued

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

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER		DI	ECEMBER	
1	24			46			32		
2	20			39			33		
3 4	19 17			35 33			29 29		
5	13			32			25		
6 7	11 12			31 30			28 33		
8	12			28			32		
9	11			27			34		
10	11			27			34		
11	11			28			35		
12	11			30			36		
13 14	12 12			31 30			34		
15	12			30			e32 e29		
16	11			31			e25		
17 18	11 11			31 31			e20 e16		
19	17			31			e18		
20	23			30			e21		
21	23			31			e24		
22	24			30			e26		
23	23			29			e27		
24	21			29			e27		
25	22			29			e26		
26	22			31			e26		
27	32			31			e27		
28 29	33 33			31 32			e28 e28		
30	56			32			e30		
31	62						32		
TOTAL	632			936			876		
TOTAL	032			930			870		
		T337773 D17						MARGII	
		JANUARY			FEBRUARY			MARCH	
1	33			32			33		
2	33			32			32		
3 4	32 32			32 31			34 32		
5	29			30			30		
	0.5			2.0			0.0		
6 7	26 e26			30 29			28 27		
8	e24			28			27		
9	e21			27			26		
10	e20			27			26		
11	e20			29			25		
12	e18			28			24		
13	e19			28			24		
14 15	e20 e23			27 28			24 24		
16	e24			26			34		
17 18	e25 e28			28 28			29 27		
19	e31			29			29		
20	e32			29			27		
21	e33			29			24		
22	e33			29			23		
23	e33			31			23		
24	e32			32			24		
25	e31			33			25		
26	e30			34			25		
27	e30			33			25		
28 29	28 e29			33			27 28		
30	e30						26		
31	e30						25		
TOTAL	855			832			837		
TOTAL	055	_	•	0.52	_		037	_	_

e-Estimated.

# 07126485 PURGATOIRE RIVER AT ROCK CROSSING NEAR TIMPAS, CO--Continued

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

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1 2	25 25			73 52			52 51		
3	25 25			40			43		
4 5	23 24			31 24			37 583		
6 7	23 20			22 19			291 544		
8	21			18			139		
9 10	19 20			16 16			100 86		
11	18			16			164		
12	17			17			178		
13 14	17 28			16 15		 	101 92		
15	33			14			66		
16	33			14			62		
17	30			15			63		
18 19	24 21			13 12			72 64		
20	19			12			39		
21	17			11			44		
22 23	17 15			11 22			35 105	 1610	1170
24	17			43			73	647	156
25	29			46			34		
26	76			44			34	142	21
27 28	84 96			43 42			90 38	387	109
29	164			44			23		
30 31	115			49 53			18		
TOTAL	1095			863			3321		
		JULY			AUGUST		SI	EPTEMBER	
1	14			38			17		
2	12 9.4			626 105	5290 1600	12600 491	54 40		
4	7.1			112			29		
5	6.0			81	388	94	23		
6 7	4.6			45			21		
8	4.0 3.8			203 90	544	335	19 33		
9 10	20		e15	66			37 23		
10	23		e18	213			23		
11 12	21 14			241 431	1890 3570	1940 8340	18 18		
13	10			61			19		
14 15	7.4 5.6			42 33			16 14		
16 17	4.3			30 27			12 10		
18	3.5			24			9.3		
19 20	17 25	83	18	21 42			8.9 9.0		
21 22	9.4 3.8			30 24			9.6 11		
23	e1.9			25			15		
24 25	e1.1 e11			25 22			190 74	902	526 
26	12			21			50		
27	12			41			44		
28 29	12 345	3700	 5500	23 18			37 35		
30	102	1110	341	18			30		
31	53			16					
TOTAL	778.7			2794			925.8		

e-Estimated.

#### 07128500 PURGATOIRE RIVER NEAR LAS ANIMAS, CO

LOCATION.--Lat 38°02'02", long 103°12'00", in NE¹/4SW¹/4 sec.23, T.23 S., R.52 W., Bent County, Hydrologic Unit 11020010, on right bank at downstream side of bridge on State Highway 101, 2.3 mi southeast of courthouse in Las Animas, and 4.5 mi upstream

DRAINAGE AREA.--3,318 mi².

PERIOD OF RECORD.--May to September 1889, July to October 1909 (gage heights and discharge measurements only), January 1922 to September 1931, July 1948 to current year. Monthly discharge only for some periods, published in WSP 1311. Published as Purgatoire Creek at Las Animas in 1889 and as Purgatory River near Las Animas in 1909. Statistical summary computed for 1978 to current year, subsequent to completion of Trinidad Reservoir. Water-quality data available, December 1985 to September 1996.

REVISED RECORDS.--WSP 1241: 1927(M); WDR CO-84-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 3,878.04 ft above sea level. See WSP 1731 for history of changes prior to Oct. 1, 1955. Oct. 1, 1955 to July 11, 1966, at datum 3.00 ft higher. Supplementary water-stage recorder at site 1.6 mi downstream at different datum July 12 to Nov. 17, 1966. Nov. 18, 1966, to May 4, 1982, at datum 3.1 ft lower.

REMARKS.--Records good except for estimated daily discharges and Dec. 1 to Mar. 1, which are poor. Flow regulated to some extent since January 1975 by Trinidad Lake near Trinidad, upstream. Diversions for irrigation of about 36,000 acres upstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since at least 1860 occurred Oct. 1, 1904, discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES DAY OCT NOV DEC FEB MAR APR MAY JUN JUL AUG SEP JAN 8.3 8.4 8.4 5.9 9 1 6.1 8.8 7.6 9.6 6.6 8.8 9.6 7.9 e23 6.5 e22 5.5 e23 2.0 9.9 e57 e24 5.6 e55 9.7 6.1 e54 7.7 7.0 e53 7.4 e20 6.4 e52 7.8 e20 e24 8.0 9.6 6.2 8.0 7.3 8.7 8.0 24 2.7 9.9 8.2 e37 e28 9.4 e37 e35 2.7 38 e31 17 44 e37 ___ 562.8 604.4 TOTAL 520.0 17.3 56 58.9 55.0 32.2 31.8 31.4 18.2 89.9 19.5 MAX 6.1 7.0 5.5 MIN AC-FT STATISTICS OF MONTHLY MEAN DATA FOR WATER **YEARS 1978** 1997, BY WATER YEAR (WY) MEAN 31.7 33.9 28.3 30.8 31.1 37.7 78.7 70.5 50.0 41.9 1994 MAX 82 6 59 1 48 0 56 2 (WY) 4.72 3.76 3.53 5.41 8.76 7.67 MIN 1.58 1.90 5.65 (WY) SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1978 - 1997 ANNUAL TOTAL 27393.4 17144.2 a_{63.7} 47.0 HIGHEST ANNUAL MEAN 22.7 LOWEST ANNUAL MEAN b₃₆₁₀ HIGHEST DAILY MEAN Aug 18 1981 May 26 Aug 12 c_{1.2} LOWEST DAILY MEAN 5.5 Jul 12 Oct 12 1977 5.0 May ANNUAL SEVEN-DAY MINIMUM Мау 6.8 Jul  $^{\rm d}_{\rm 6680}$ INSTANTANEOUS PEAK FLOW Aug Jul 5 1981 f_{10.09} INSTANTANEOUS PEAK STAGE 9.64 5 1981 Aug 12 Jul ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 9.7 90 PERCENT EXCEEDS 9.9

e-Estimated

a-Average discharge for 37 years (water years 1923-31, 1949-76), 116 ft³/s; 84040 acre-ft/yr, prior to completion of Trinidad Reservoir.

b-Maximum daily discharge for period of record, 46300 ft³/s, May 20, 1955.
c-No flow at times in 1924-25, 1927, 1949, and 1974.
d-Maximum discharge and stage for period of record, 70000 ft³/s, May 20, 1955, gage height, 20.00 ft, from rating curve extended above 38000 ft³/s, at different datum.

f-Maximum gage height for statistical period, 10.21 ft, Aug 31, 1996.

#### 07130000 JOHN MARTIN RESERVOIR AT CADDOA, CO

LOCATION.--Lat 38°04'05", long 102°56'13", in NE¹/₄NW¹/₄ sec.8, T.23 S., R.49 W., Bent County, Hydrologic Unit 11020009, at dam on Arkansas River at Caddoa, 3.2 mi southeast of Hasty, and 58 mi upstream from Colorado-Kansas State line.

DRAINAGE AREA.--18,915 mi², of which 785 mi² is probably noncontributing.

PERIOD OF RECORD.--January 1943 to current year. Month-end contents only prior to November 1943, published in WSP 1311.

GAGE.--Water-stage recorder with satellite telemetry for elevations above 3,784 ft (48 acre-feet), and nonrecording gage read once daily for those below. Datum of gage is 3,760.00 ft above sea level, (levels by U.S. Corps of Engineers); gage readings have been reduced to elevations above sea level.

REMARKS.--No estimated contents. Records good. Reservoir is formed by concrete and earthfill dam. Storage began while dam was under construction prior to 1943, and record of contents began Jan. 1, 1943. Capacity (based on 1994 resurvey used from Nov. 1, 1994) 605,100 acre-ft, at elevation 3,870.00 ft, top of spillway gates, of which 345,700 acre-ft between elevations 3779.26 ft, elevation of no contents, and 3851.87 ft, is reserved for flood control. Contents table shown is from the latest survey of 1994. No dead storage. Figures given represent total contents.

COOPERATION .-- Capacity tables provided by U.S. Army, Corps of Engineers.

EXTREMES (AT 2400) FOR PERIOD OF RECORD.--Maximum contents, 429,600 acre-ft, Aug. 25, 1965, elevation, 3,856.16 ft; no contents at times many years.

EXTREMES (AT 2400) FOR CURRENT YEAR.--Maximum contents, 325,000 acre-ft, June 29, elevation, 3,850.03 ft; minimum contents, 230,000 acre-ft, Oct. 25-30, elevation, 3,840.63 ft.

#### Capacity table (elevation, in feet, and contents, in acre-feet)

3,785.0	193	3,820.0	87,700
3,790.0	2,400	3,830.0	146,000
3,795.0	8,480	3,840.0	224,000
3,800.0	18,400	3,850.0	324,000
3,810.0	47,000	3,860.0	450,000

# RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	235000	231000	243000	255000	268000	290000	287000	253000	232000	323000	254000	308000
2	235000	231000	244000	256000	269000	291000	285000	252000	232000	320000	254000	307000
3	235000	232000	244000	256000	270000	292000	283000	251000	232000	318000	253000	306000
4	235000	232000	244000	257000	271000	293000	282000	250000	233000	315000	252000	305000
5	235000	232000	245000	257000	271000	294000	281000	249000	233000	313000	252000	304000
6 7 8 9	235000 235000 235000 235000 234000	232000 233000 233000 233000 233000	245000 246000 246000 247000 247000	257000 258000 258000 258000 259000	272000 273000 274000 275000 275000	295000 296000 297000 297000 298000	279000 278000 276000 275000 274000	248000 247000 246000 245000 244000	235000 236000 239000 243000 247000	310000 308000 305000 303000 300000	254000 257000 263000 265000 266000	303000 302000 301000 301000 300000
11	234000	233000	248000	259000	276000	298000	273000	243000	252000	298000	268000	299000
12	234000	234000	248000	259000	277000	299000	273000	242000	258000	295000	278000	299000
13	234000	234000	248000	260000	278000	299000	272000	241000	263000	292000	287000	298000
14	234000	234000	249000	260000	278000	299000	271000	241000	268000	289000	295000	297000
15	234000	235000	249000	260000	279000	299000	270000	240000	274000	286000	300000	296000
16	234000	236000	250000	261000	279000	300000	269000	238000	278000	284000	304000	295000
17	233000	236000	250000	261000	280000	300000	268000	237000	281000	281000	307000	294000
18	233000	237000	250000	261000	281000	300000	267000	235000	285000	278000	310000	293000
19	232000	238000	250000	262000	281000	300000	265000	234000	290000	275000	311000	292000
20	232000	238000	250000	263000	282000	300000	263000	233000	295000	273000	312000	291000
21	232000	239000	250000	263000	282000	299000	261000	233000	300000	270000	313000	290000
22	231000	239000	251000	264000	283000	298000	259000	232000	305000	268000	314000	290000
23	231000	240000	251000	264000	284000	297000	257000	232000	308000	265000	314000	289000
24	231000	240000	252000	265000	285000	296000	257000	232000	312000	263000	314000	289000
25	230000	240000	252000	265000	286000	295000	257000	232000	315000	260000	314000	288000
26 27 28 29 30 31	230000 230000 230000 230000 230000 231000	241000 241000 242000 242000 243000	252000 253000 253000 254000 254000 255000	266000 266000 266000 267000 267000 268000	287000 288000 289000 	294000 292000 291000 291000 289000 288000	257000 256000 256000 255000 254000	232000 233000 233000 233000 233000 233000	319000 322000 324000 325000 325000	258000 256000 255000 254000 254000 255000	314000 313000 312000 311000 310000 309000	288000 288000 288000 288000 287000
MEAN	233000	236000	249000	261000	278000	296000	269000	240000	275000	285000	290000	296000
MAX	235000	243000	255000	268000	289000	300000	287000	253000	325000	323000	314000	308000
MIN	230000	231000	243000	255000	268000	288000	254000	232000	232000	254000	252000	287000

CAL YR 1996 MEAN 255000 MAX 321000 MIN 215000 WTR YR 1997 MEAN 267000 MAX 325000 MIN 230000

#### 07130500 ARKANSAS RIVER BELOW JOHN MARTIN RESERVOIR, CO

LOCATION.--Lat 38°03'59", long 102°55'55", in NW1/4NE1/4 sec.8, T.23 S., R.49 W., Bent County, Hydrologic Unit 11020009, on right bank 0.2 mi downstream from John Martin Dam, 2.6 mi upstream from Caddoa Creek, and 3.5 mi southeast of Hasty.

DRAINAGE AREA.--18,915 mi², of which 785 mi² is probably noncontributing.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1938 to current year. Published as "at Caddoa" prior to October 1947. Statistical summary computed for 1949 to current year subsequent to completion of John Martin Reservoir.

REVISED RECORDS.--WSP 1241: 1942(M). WSP 1341: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Datum of gage is 3,737.40 ft above sea level. Prior to Feb. 22, 1940, at site 3 mi upstream at datum 22.83 ft higher. Feb. 22, 1940 to Feb. 4, 1943, at site 700 ft upstream, at datum 3.64 ft higher, Feb. 5, 1943 to Apr. 8, 1975, at site 1.5 mi downstream at datum approximately 27.5 ft lower.

REMARKS.--Records good except those for Dec. 1 to Mar. 1, which are poor. Storage diversions upstream from station for irrigation of about 438,000 acres and for flood control. Flow completely regulated by John Martin Dam (station 07130000) 0.2 mi upstream since Oct. 1948.

DISCHARGE CURIC FEET PER SECOND, WATER VEAR OCTORER 1006 TO SERTEMBER 1007

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2	112 112	82 74	3.7 3.4	3.8 3.8	3.8 3.8	2.8	874 871	639 648	545 514	1430 1520	655 1070	753 663	
3	108	74	3.4	3.8	3.8	2.9	863	658	492	1580	1070	576	
4 5	135 158	75 64	3.6 3.7	3.5 3.4	3.8 3.8	2.8 2.8	783 720	658 644	541 590	1560 1540	644 280	598 580	
6	158	53	3.4	3.4	3.8	2.8	717	625	627	1540	100	564	
7	156	53	3.7	3.7	3.8	2.8	730	598	649	1450	20	564	
8	186	53	3.8	3.7	3.7	2.8	745	583	648	1370	150	541	
9 10	211 214	53 53	3.8 3.7	3.7 3.8	3.4 3.4	2.8 72	753 620	594 604	602 563	1420 1450	238 238	529 533	
11	214	53	3.8	3.8	3.4	123	442	605	542	1430	178	533	
12	214	47	3.8	3.8	3.3	123	405	580	561	1420	62	540	
13	212	30	3.8	e3.8	3.1	123	406	561	556	1410	19	544	
14	213	12	3.8	e3.8	3.1	123	479	562	534	1430	16	544	
15	225	3.4	3.8	e3.8	3.1	123	602	560	534	1450	16	570	
16 17	236 238	3.4 3.4	3.8 e3.8	e3.8 e3.8	3.1 3.0	123 104	607 618	722 972	552 568	1440 1420	16 15	591 587	
18	239	3.6	e3.8	e3.8	2.8	85	777	969	597	1390	15	575	
19	239	3.4	e3.9	e3.8	2.8	101	1020	722	619	1380	83	551	
20	238	3.6	e4.0	e3.7	2.9	135	1030	552	666	1370	255	541	
21	249	3.8	4.1	3.6	2.8	367	1040	494	698	1350	309	539	
22	263	3.7	4.1	3.1	2.8	686	1070	449	700	1310	276	487	
23 24	266 265	3.7 3.8	$\frac{4.1}{4.1}$	3.1 3.1	2.8	689 666	1070 736	451 455	1090 1470	1300 1300	282 281	410 364	
25	265	4.0	4.1	3.1	2.8	611	459	457	1490	1300	312	328	
26	264	4.1	4.1	3.3	2.8	586	444	462	1070	1290	390	308	
27	264	4.1	4.0	3.4	2.8	564	445	503	825	1290	459	296	
28	251	3.8	3.8	3.4	2.8	554	458	556	843	1290	676	296	
29 30	220	3.8	3.8	3.4 3.7		567	562 633	579	851	1190	788	260	
31	210 162	3.8	3.8 3.8	3.7		568 754	033	582 543	929 	295 16	758 756	256 	
TOTAL	6497	835.4	118.3	111.5	90.1	7872.3	20979	18587	21466	40931	10427	15021	
MEAN	210	27.8	3.82	3.60	3.22	254	699	600	716	1320	336	501	
MAX	266	82	4.1	3.8	3.8	754	1070	972	1490	1580	1070	753	
MIN AC-FT	108 12890	3.4 1660	3.4 235	3.1 221	2.8 179	2.8 15610	405 41610	449 36870	492 42580	16 81190	15 20680	256 29790	
										01100	20000	20100	
							, BY WATER						
MEAN	198	24.3 217	11.9 281	6.62 173	14.1 477	40.3 410	424 1174	439 2576	540	694 2895	565	322 1007	
MAX (WY)	565 1949	1966	1966	1966	1966	1986	1987	1987	2665 1987	1995	2127 1965	1984	
MIN	11.4	.85	.64	.62	.75	1.06	2.43	34.2	52.0	86.1	22.6	6.69	
(WY)	1975	1977	1977	1977	1977	1980	1973	1975	1954	1963	1960	1974	
SUMMARY	Y STATIST	ICS	FOR	1996 CALEN	DAR YEAR	1	FOR 1997 WA	TER YEAR		WATER Y	EARS 1949	- 1997	
ANNUAL				114629.9			142935.6			a 275			
ANNUAL	MEAN FANNUAL :	MEAN		313			392			745		1987	
	ANNUAL M									82.5		1964	
	C DAILY M			1160	Jul 8		1580	Jul 3		3830	Aug	25 1965	
LOWEST	DAILY ME	AN		b _{3.1}	Feb 12		^C 2.8	Feb 18		d.36	5 Dec	25 1979	
		Y MINIMUM		3.2	Feb 9		2.8	Feb 21		f .36			
	raneous p						1600	Jul 2		f ₄₁₀₀		25 1965	
	PANEOUS P. RUNOFF (	EAK STAGE		227400			4.79 283500	Jul 2		9 _{5.7} 9	a Aug	25 1965	
	CENT EXCE			907			1070			853			
	CENT EXCE			170			260			50			
90 PERC	CENT EXCE	EDS		3.8			3.4			2.0			

e-Estimated

a-Average discharge for 5 years (water years 1939-43), 628 ft³/s, unadjusted; 455000 acre-ft/yr, during construction of John Martin Dam.

Martin Dam.
b-Also occurred Feb 13-15.
c-Also occurred Feb 19, 21-28, Mar 1-2, and 4-9.
d-No flow at times in 1945-47. Minimum daily prior to construction of John Martin Dam, 5 ft³/s, Jul 16, 1939.
f-Maximum discharge for period of record, 40000 ft³/s, Apr 24, 1942, gage height, 10.46 ft, site and datum then in use, from rating curve extended above 12000 ft³/s, on basis of flow-over-dam and critical-depth measurement of peak flow.
g-Maximum gage height for period of record, 10.62 ft, Jun 18, 1965, backwater from Caddoa Creek, site and datum then in use.

# 07130500 ARKANSAS RIVER BELOW JOHN MARTIN RESERVOIR, CO--Continued WATER-QUALITY RECORDS

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 with satellite telemetry.

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

## EXTREMES FOR PERIOD OF RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 3,540 microsiemens, Feb. 26, 1986; minimum, 1,060 microsiemens, Aug. 26 to Sept. 4, 1995.

WATER TEMPERATURE: Maximum, 27.9°C, June 10, 1989; minimum, 0.0°C, many days during winter months.

## EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 2,520 microsiemens, Feb. 21-22, 25, 27; minimum, 1,700 microsiemens, Sept. 17, 24. WATER TEMPERATURE: Maximum, 26.5°C, Aug. 13, 15; minimum, 1.0°C, Dec. 19.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		No	OVEMBER		DI	ECEMBER			JANUARY	
1	2010	1990	2000	2070	2040	2060	2250	2190	2230	2350	2290	2320
2	2020	1990	2010	2070	2050	2060	2250	2210	2230	2340	2290	2310
3	2080	2020	2050	2070	2040	2060	2310	2230	2260	2370	2280	2320
4	2080	2010	2040	2060	2040	2050	2330	2270	2300	2380	2270	2330
5	2020	2000	2010	2080	2040	2060	2350	2270	2310	2410	2380	2390
6	2010	2000	2010	2110	2080	2100	2320	2280	2300	2430	2370	2400
7	2040	2000	2010	2140	2110	2120	2330	2280	2310	2460	2380	2440
8	2040	2010	2020	2120	2090	2110	2310	2270	2290	2480	2440	2460
9	2020	2000	2010	2110	2090	2100	2300	2230	2270	2480	2420	2460
10	2010	2000	2010	2110	2090	2100	2300	2240	2270	2470	2420	2440
11	2010	1990	2010	2130	2100	2110	2310	2240	2280	2460	2420	2440
12	2010	1990	2000	2150	2120	2130	2320	2260	2290	2440	2410	2430
13	2010	1990	2000	2160	2130	2150	2330	2270	2310	2430	2390	2410
14	2010	1990	2000	2190	2150	2170	2360	2310	2330	2450	2410	2430
15	2010	1990	2000	2210	2170	2200	2400	2350	2380	2440	2400	2430
16	2020	1990	2000	2260	2190	2210	2400	2340	2370	2440	2400	2420
17	2010	2000	2000	2270	2200	2240	2380	2360	2370	2480	2410	2440
18	2020	2000	2010	2250	2160	2210	2420	2380	2400	2490	2440	2470
19	2020	2000	2010	2220	2150	2190	2420	2380	2400	2480	2450	2460
20	2020	2000	2010	2190	2120	2160	2420	2350	2390	2480	2440	2460
21	2030	2020	2020	2200	2150	2180	2380	2310	2340	2480	2400	2440
22	2040	2020	2030	2220	2160	2190	2350	2300	2320	2460	2420	2440
23	2040	2020	2030	2220	2170	2190	2340	2300	2320	2460	2380	2430
24	2040	2030	2040	2240	2180	2210	2380	2330	2360	2460	2380	2430
25	2040	2030	2030	2240	2170	2200	2390	2330	2350	2470	2420	2440
26 27 28 29 30 31	2050 2040 2040 2050 2050 2050	2030 2030 2030 2030 2030 2030	2040 2030 2040 2040 2040 2040	2230 2250 2270 2230 2250	2180 2200 2180 2190 2200	2200 2220 2230 2200 2220	2410 2380 2390 2380 2370 2380	2380 2350 2350 2350 2330 2320	2390 2370 2370 2370 2350 2350	2480 2490 2490 2460 2490 2430	2440 2430 2440 2380 2400 2370	2460 2460 2460 2420 2440 2400
MONTH	2080	1990	2020	2270	2040	2150	2420	2190	2330	2490	2270	2420

# 07130500 ARKANSAS RIVER BELOW JOHN MARTIN RESERVOIR, CO--Continued

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

		511	en ie cor	DOCTAINCE	, (MICKOS)	LIVILI VIS/ CIV	1 @ 23 DEG. V	<i>)</i> , <b>W</b> 111LK	1L/IK OC	OBER 1996 I	O DEI TEN	IDER 1777
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	2450 2450 2440 2460 2450	2390 2380 2400 2420 2400	2420 2420 2420 2440 2430	2510 2500 2480 2490 2500	2450 2460 2450 2460 2460	2480 2470 2470 2480 2480	2330 2310 2290 2290 2300	2260 2290 2280 2280 2290	2290 2300 2280 2280 2290	2300 2260 2240 2230 2230	2260 2240 2220 2220 2220	2280 2250 2230 2230 2230
6 7 8 9 10	2480 2480 2490 2470 2460	2430 2440 2440 2430 2430	2460 2460 2470 2450 2440	2500 2490 2470 2480 2500	2450 2420 2420 2430 2300	2470 2460 2450 2460 2410	2300 2300 2330 2320 2320	2300 2290 2290 2290 2300	2300 2300 2310 2310 2310	2250 2270 2330 2280 2290	2220 2240 2260 2240 2260	2230 2250 2290 2260 2270
11 12 13 14 15	2470 2490 2490 2490 2490	2440 2440 2460 2440 2440	2450 2460 2470 2470 2460	2300 2280 2310 2310 2310	2280 2250 2240 2300 2300	2290 2270 2280 2310 2300	2320 2320 2320 2320 2310	2310 2310 2300 2300 2300	2310 2310 2310 2310 2310	2290 2320 2300 2290 2300	2260 2280 2280 2270 2270	2270 2290 2290 2280 2290
16 17 18 19 20	2480 2480 2490 2490 2500	2440 2440 2450 2440 2450	2460 2460 2460 2460 2480	2310 2310 2310 2310 2310	2300 2300 2270 2280 2290	2300 2300 2300 2300 2300	2310 2310 2290 2300 2300	2300 2290 2290 2290 2290	2300 2300 2290 2290 2300	2320 2310 2310 2320 2310	2280 2280 2300 2280 2290	2300 2290 2310 2300 2300
21 22 23 24 25	2520 2520 2510 2510 2520	2480 2480 2480 2470 2460	2500 2500 2490 2490 2480	2300 2290 2290 2280 2280	2260 2270 2280 2270 2270	2300 2280 2290 2280 2270	2310 2320 2320 2290 2290	2300 2310 2290 2290 2290	2310 2320 2310 2290 2290	2310 2320 2310 2340 2330	2300 2300 2300 2310 2310	2310 2310 2300 2320 2330
26 27 28 29 30 31	2510 2520 2500 	2480 2470 2470 	2490 2500 2480 	2280 2280 2270 2270 2270 2270	2270 2250 2260 2260 2260 2260	2270 2270 2270 2270 2270 2270	2290 2290 2290 2330 2290	2290 2280 2280 2290 2290	2290 2290 2290 2290 2290	2330 2330 2330 2330 2330 2330	2310 2310 2320 2330 2320 2330	2320 2320 2330 2330 2330 2330
MONTH	2520	2380	2460	2510	2240	2340	2330	2260	2300	2340	2220	2290
		JUNE			JULY			AUGUST			SEPTEMBE	R
1 2												
3 4 5	2330 2350 2350 2340 2340	2330 2330 2330 2330 2330	2330 2340 2340 2340 2340	2310 2290 2290 2270 2260	2280 2250 2260 2250 2230	2300 2270 2270 2270 2250	1910 1850  	1850 1850  	1860 1850 	1810 1810 1810 1800 1790	1790 1790 1770 1770 1760	1800 1790 1790 1790 1770
3 4	2350 2350 2340	2330 2330 2330	2340 2340 2340	2290 2290 2270	2250 2260 2250	2270 2270 2270	1850 	1850 	1850 	1810 1810 1800	1790 1770 1770	1790 1790 1790
3 4 5 6 7 8 9 10 11 12 13 14	2350 2350 2340 2340 2340 2350 2350 2350	2330 2330 2330 2330 2330 2340 2340 2340	2340 2340 2340 2340 2340 2340 2350 2350 2350 2350 2350 2350	2290 2290 2270 2260 2250 2220 2160 2160 2130 2070 2040 2040	2250 2260 2250 2230 2210 2170 2160 2140 2120 2060 2020 2010 2000	2270 2270 2270 2250 2230 2210 2180 2150 2140 2100 2050 2030 2020	1850   1840 1850 1790 1830	1850   1830 1770 1780 1760 1760 1770 1800 1800 1830	1850   1840 1820 1780 1800 1800 1810 1820 1830 1870	1810 1810 1800 1790 1820 1820 1800 1790 1770 1770 1740 1750	1790 1770 1770 1760 1740 1750 1740 1720	1790 1790 1790 1770 1770 1780 1780 1740 1760 1740 1730 1740 1740
3 4 5 6 7 8 9 10 11 12 13 14	2350 2350 2340 2340 2340 2350 2350 2350 2350 2360 2360 2360 2360	2330 2330 2330 2330 2330 2340 2340 2340	2340 2340 2340 2340 2340 2340 2350 2350 2350 2350 2350 2350	2290 2290 2270 2260 2250 2220 2160 2160 2130 2070 2040 2040	2250 2260 2250 2230 2210 2170 2160 2140 2120 2060 2020 2010 2000	2270 2270 2270 2250 2230 2210 2180 2150 2140 2100 2050 2030 2020	1850  1840 1850 1790 1830 1830 1860 1840 1860 1920	1850   1830 1770 1780 1760 1760 1770 1800 1800 1830	1850   1840 1820 1780 1800 1800 1810 1820 1830 1870	1810 1810 1800 1790 1820 1820 1800 1790 1770 1770 1740 1750	1790 1770 1770 1760 1740 1750 1740 1750 1750 1720 1710 1720 1730	1790 1790 1790 1770 1770 1780 1780 1740 1760 1740 1730 1740 1740
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	2350 2350 2340 2340 2350 2350 2350 2350 2360 2360 2360 2360 2360 2360 2360 236	2330 2330 2330 2330 2330 2340 2340 2340	2340 2340 2340 2340 2340 2340 2350 2350 2350 2350 2350 2350 2350 235	2290 2290 2270 2260 2250 2220 2220 2160 2160 2130 2070 2040 2040 2000	2250 2260 2250 2250 2230 2210 2170 2160 2140 2120 2060 2020 2010 2000 1980 1950 1940 1930 1890	2270 2270 2270 2250 2250 2230 2210 2180 2150 2140 2050 2030 2020 1990 1970 1960 1930 1910	1850  1840 1850 1790 1830 1860 1920 1900 1920 1900	1850  1830 1770 1780 1760 1760 1770 1800 1830 1860 1870 1870 1880 1880	1850  1840 1820 1780 1800 1800 1810 1820 1830 1870 1880 1890 1880 1890 1860	1810 1810 1800 1790 1820 1820 1800 1790 1770 1770 1740 1750 1760 1760 1760 1760	1790 1770 1770 1770 1760 1740 1750 1740 1750 1720 1710 1720 1730 1710 1710 1700 1720 1710	1790 1790 1790 1790 1770 1770 1780 1780 1740 1740 1740 1740 1730 1730 1730 1730 1740 1740
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	2350 2350 2340 2340 2350 2350 2350 2350 2360 2360 2360 2360 2360 2360 2360 236	2330 2330 2330 2330 2340 2340 2340 2350 2350 2350 2350 2350 2350 2350 235	2340 2340 2340 2340 2340 2340 2350 2350 2350 2350 2350 2350 2350 235	2290 2290 2270 2270 2260 2220 2220 2160 2160 2070 2040 2040 2000 1990 1970 1950 1930 1920	2250 2260 2250 2250 2230 2210 2170 2160 2140 2120 2060 2020 2010 2000 1980 1950 1940 1930 1890 1880 1880 1880 1880	2270 2270 2270 2250 2230 2210 2180 2150 2140 2100 2050 2030 2020 1990 1970 1960 1930 1910 1990 1890 1880 1880	1850  1840 1850 1790 1830 1830 1860 1920 1900 1920 1900 1910 1830 1840 1840 1840 1840 1840 1840 1840 1840	1850  1830 1770 1780 1760 1760 1770 1800 1830 1870 1870 1870 1870 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1880 1	1850  1840 1820 1780 1800 1800 1810 1820 1830 1870 1880 1890 1860 1810	1810 1810 1800 1790 1820 1820 1800 1790 1770 1770 1740 1750 1760 1760 1760 1750 1780 1780 1780 1780	1790 1770 1770 1760 1740 1750 1740 1720 1750 1720 1710 1710 1710 1710 1710 1710 171	1790 1790 1790 1790 1770 1770 1780 1780 1740 1740 1730 1740 1730 1730 1730 1740 1740 1750 1750 1750

# 07130500 ARKANSAS RIVER BELOW JOHN MARTIN RESERVOIR, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			ECEMBER			JANUARY	
1 2 3 4 5	18.5 17.6 17.6 17.6 17.7	17.2 16.8 16.4 16.4 16.6	17.7 17.2 16.9 16.9	12.0 12.1 11.7 11.8 12.0	10.8 10.5 10.5 10.7 10.5	11.4 11.1 11.0 11.1 11.0	6.2 5.6 5.3 5.0	4.1 4.2 3.8 3.6 3.3	5.1 4.9 4.6 4.3 4.2	7.2 7.1 6.6 6.4 5.6	4.7 4.9 5.0 5.0	5.6 5.8 5.6 4.9
6 7 8 9 10	17.6 17.0 17.3 17.2 17.2	16.6 16.4 16.3	17.0 16.8 16.7 16.6 16.7	11.1 11.1 10.6 10.8 10.6		10.4 10.1 9.8 9.9 9.9	4.6 5.3 6.2 7.0 7.5	4.0 3.0 3.6 3.9 5.0	4.4 4.2 4.8 5.4 6.1	5.4 4.8 4.8 4.8	3.7 3.2 3.3 2.9 2.8	4.6 4.0 4.1 3.9 3.7
11 12 13 14 15	17.2 17.3 17.2 17.2 17.1	16.3 16.3 16.3	16.7 16.7 16.7 16.7	10.4 10.1 10.2 9.0 8.5	9.2 9.0 8.7 8.5 7.9	9.6 9.4 9.2 8.7 8.3	8.0 7.5 8.0 6.5 5.4	5.4 5.3 4.9 4.8 4.0	6.4 6.2 6.2 5.6 4.6	4.2 3.5 4.2 4.1 3.8	2.4 2.8 3.0 3.0	3.1 3.2 3.5 3.4 3.4
16 17 18 19 20	17.0 16.3 16.3 15.8 15.7	16.2 15.8 15.1 15.2 14.8	16.5 16.1 15.7 15.4 15.2	7.9 7.3 9.2 10.1 10.1	5.7 4.8 5.3 6.4 7.5		4.6 3.2 3.1 2.2 3.0		3.7 2.4 1.7 1.5	4.0	3.3 3.3 3.4 3.5 3.9	3.7 3.6 3.7 3.9 4.3
21 22 23 24 25	14.8 14.2 14.1 13.9 13.8	13.7 13.4 13.2	14.5 13.9 13.8 13.4 13.4	8.6 8.8 7.9 7.0 6.6	7.4 7.3 6.4 4.8 5.0	8.0 8.0 7.4 6.0 5.8	3.4 4.1 4.5 4.1 5.0	2.0 2.4 2.7 2.6 3.2	2.5 3.0 3.4 3.3 3.9	4.7 5.4 5.6 5.9	3.8 4.1 4.5 4.7 4.4	4.4 4.8 5.0 5.2 5.1
26 27 28 29 30 31	13.3 12.8 12.8 12.5 12.5	12.4 12.4 12.2 11.8 11.8	12.8 12.6 12.5 12.1 12.0 11.6	5.8 5.6 6.6 6.9 6.2	4.5 4.4 4.3 5.4 4.9	5.3 5.1 5.4 6.2 5.6	4.6 4.8 5.3 5.5 5.8 6.5	3.0 3.7 3.9 4.3 4.5 4.6	3.7 4.2 4.6 4.8 5.1 5.4	5.9 6.0 5.9 7.0 7.5 7.9	4.3 4.4 4.3 4.9 4.5 4.8	5.0 5.1 5.0 5.7 5.9 6.3
MONTH	18.5	11.3	15.3	12.1	4.3	8.4	8.0	1.0	4.3	7.9	2.4	4.6
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	7.8	5.8 5.6 4.5 4.3	6.9 6.8 6.7 5.9	9.1 10.0 10.2 8.2 10.3	4.0 4.2 4.5 4.7	6.1 6.7 7.0 6.5 7.1	8.0 7.8 8.0 8.5 8.3	7.6 7.6 7.7 7.7	7.8 7.7 7.8 8.1 8.0	10.9 10.9 11.0 10.9 11.0	8.9 10.1 10.5 10.4 10.5	9.7 10.6 10.7 10.6 10.7
6 7 8 9 10		3.8 3.0 2.9 4.2 3.4	4.6 3.9 4.3 5.0 4.9	12.0 13.3 13.2 12.4 8.5	5.1 5.3 6.5 6.9 4.9	8.1 8.9 9.5 9.4 6.8	8.2 8.1 7.6 7.8 7.5	7.6 7.6 7.4 7.3 7.0	7.9 7.8 7.5 7.5	11.2 11.6 11.2 11.7	10.4 10.7 10.8 11.0	10.7 11.0 11.0 11.3 11.3
11 12 13 14 15	5.2 5.6 4.7 7.1 7.0	3.3 3.4 3.3 2.9 3.0	4.4 4.4 3.9 4.7 5.1	5.7 5.8 4.8 4.8	4.4 4.5 4.0 3.8 3.6	5.0 5.0 4.4 4.1 4.2	7.1 6.8 7.0 7.0 7.1	6.6 6.3 6.2 6.2	6.9 6.5 6.5 6.6	11.9 13.2 12.8 12.9 13.2	11.5 12.1 12.3	11.5 12.4 12.4 12.5 12.6
16 17 18 19 20	8.9 8.7 10.9 10.0 8.6	4.3 5.2 5.4 7.2 5.2	6.3 6.8 7.6 8.4 7.1	4.8 5.6 6.3 6.5	3.8 4.1 4.4 4.4 5.1	4.3 4.7 5.1 5.3	6.9 7.0 7.1 7.0 7.0	6.3 6.4 6.5	6.5 6.6 6.7 6.7	13.1 12.9 13.1 13.5 13.6	12.4 12.4 12.4 12.7 12.8	12.6 12.6 12.7 13.2 13.1
21 22 23 24 25	7.2 8.7 6.5 5.9 8.5	5.1 4.0 3.4 3.3 3.2	6.4 6.1 4.5 4.6 5.6	6.7 6.3 6.1 7.1	5.2 5.2 5.6 6.1 6.4	5.7 5.9 5.8 6.5 6.8	7.1 9.2 7.9 8.0 8.3	6.6 7.0 7.4 7.2 8.0	6.8 8.1 7.6 7.4 8.2	13.8 14.1 14.6 14.8 15.1	12.9 12.9 13.7 13.9 14.4	13.2 13.6 14.1 14.3 14.7
26 27 28 29 30 31	5.2 7.2 7.1 	3.5 2.5 3.7 	4.2 4.7 5.5 	7.6 7.9 8.1 7.7 7.9 8.3	6.7 6.8 7.4 7.3 7.4 7.4	7.1 7.3 7.7 7.5 7.6 7.8	8.5 9.4 9.5 9.4 9.6	7.9 8.2 8.7 8.9 8.9	8.2 8.8 9.0 9.1 9.1	15.1 15.0 15.7 15.7 15.6 16.0	14.2 14.2 14.7 15.1 14.9 14.9	14.6 14.6 15.3 15.4 15.2
MONTH	10.9	2.5	5.5	13.3	3.6	6.4	9.6	6.2	7.5	16.0	8.9	12.7

# 07130500 ARKANSAS RIVER BELOW JOHN MARTIN RESERVOIR, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		1	AUGUST			SEPTEMBE	R
1 2 3 4 5	16.0 16.1 16.3 16.3	15.3 15.3 15.6 15.6	15.6 15.6 15.9 16.0 16.3	19.4 19.8 19.7 19.4 19.8	18.8 19.0 19.1 19.1 19.2	19.1 19.3 19.3 19.3	23.4 23.5 23.6 23.8 23.4	22.9 22.9 23.2 23.2 23.0	23.2 23.3 23.4 23.4 23.2	23.4 23.1 23.3 23.4 23.5	23.0 22.9 22.9 22.9 22.8	23.2 23.0 23.0 23.1 23.1
6 7 8 9 10	16.8 17.6 17.4 17.1	16.0 16.2 17.0 16.8 16.8	16.3 16.9 17.1 17.0	19.9 20.0 20.2 20.5 20.5	19.3 19.6 19.6 20.0 19.9	19.6 19.8 20.0 20.2 20.2	23.1 25.2 23.8 23.8 23.1	21.5 21.0 21.2 22.7 22.8	22.6 22.5 22.5 23.2 22.9	23.6 23.7 23.6 23.4 23.5	23.0 23.0 23.0 22.9 22.9	23.2 23.3 23.2 23.0 23.1
11 12 13 14 15	18.3 18.1 18.3 18.2 19.0	17.0 17.4 17.5 17.5	17.6 17.6 17.9 17.9	20.7 21.1 21.4 21.3 21.6	20.2 20.7 20.8 20.8 21.2	20.5 20.9 21.0 21.1 21.3	23.5 26.2 26.5 26.1 26.5	22.5 22.4 21.0 21.5 21.7	23.0 23.6 23.3 23.4 23.7	23.4 23.5 23.3 23.2 23.1	22.8 22.8 22.7 22.6 22.5	23.0 23.1 22.9 22.8 22.8
16 17 18 19 20	19.6 19.4 19.2 19.2	18.6 18.7 18.5 18.5	19.1 18.9 18.8 18.8	22.0 21.8 21.9 22.5 22.5	21.3 21.5 21.7 21.7 22.1	21.6 21.8 22.0 22.3	26.3 25.5 25.4 23.7 23.5	21.5 21.7 21.8 21.4 22.5	23.2 22.9 23.1 22.6 23.0	23.2 23.1 23.0 22.8 22.3	22.6 22.5 22.5 22.3 21.8	22.9 22.8 22.7 22.5 22.2
21 22 23 24 25	19.1 19.1 19.4 19.1 19.2	18.4 18.5 18.5 18.7 18.8	18.7 18.8 18.9 18.9	22.6 22.8 22.6 22.8 22.5	22.0 22.2 22.2 22.2 22.3	22.3 22.5 22.4 22.5 22.4	23.7 23.6 23.6 23.6 23.5	22.7 22.6 22.6 22.5 22.6	23.1 23.0 23.0 22.9 22.9	21.8 21.7 21.0 20.8 20.9	21.2 20.9 20.6 20.1 20.0	21.7 21.3 20.8 20.5 20.3
26 27 28 29 30 31	19.3 19.3 19.3 19.3	18.8 18.8 18.8 18.8	19.0 19.0 19.0 19.0	22.8 22.8 23.0 23.1 23.7	22.3 22.5 22.6 22.6 22.6	22.5 22.6 22.8 22.9 23.1	23.5 23.5 23.3 23.2 23.3 23.3	22.7 22.7 22.8 22.7 22.8 22.8	23.0 23.0 23.0 22.9 23.0 23.0	20.8 20.2 19.8 20.1 19.9	19.9 19.1 19.0 18.9 18.9	20.2 19.7 19.3 19.3
MONTH	19.6	15.3	17.9				26.5	21.0	23.1	23.7	18.9	22.0

#### 07133000 ARKANSAS RIVER AT LAMAR, CO

 $LOCATION.--Lat~38^{o}06'21", long~102^{o}37'05", in~NE^{1/4}SE^{1/4}~sec. 30, T.22~S., R.46~W., Prowers~County, Hydrologic~Unit~11020009, on~left~bank~at~left~upstream~end~of~upstream~bridge~on~U.S.~Highways~50~and~287, and~1.3~mi~north~of~courthouse~in~Lamar.$ 

DRAINAGE AREA.--19,780 mi², of which 950 mi² is probably noncontributing.

PERIOD OF RECORD.--Streamflow records, May 1913 to September 1955, April 1959 to current year. Monthly discharge only for some periods, published in WSP 1311. Statistical summary computed for 1949 to current year. Water-quality data available, November 1963 to September 1965, September 1969 to August 1972.

REVISED RECORDS.--WSP 1341: 1921(M), 1945-46(M), drainage area; WDR CO-86-1: 1985.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 3,597.39 ft above sea level. See WSP 1731 for history of changes prior to Apr. 4, 1959. Apr. 4, 1959 to Mar. 26, 1968, at site 450 ft upstream at datum 2.42 ft higher. Mar. 27, 1968 to Nov. 17, 1982, at datum 4.00 ft lower. Prior to Mar. 18, 1987, at site 75 ft downstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by John Martin Reservoir (station 07130000) 21 mi upstream since Oct. 1948. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of about 487,000 acres, and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

			DISCH	ARGE, CUBIC	FEET PER		WATER YEAR Y MEAN VALUI		1996 TO S	EPTEMBER 19	997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	41	65	63	60	52	340	21	27	329	222	283
2	27	38	67	64	58	48	341	22	54	540	784	235
3 4	28 20	35 29	63 61	66 61	61 60	49 52	332 310	21 22	41 18	680 739	1220 828	110 72
5	22	23	59	59	57	49	208	26	19	713	305	79
6	21	18	59	59	57	49	215	44	25	701	1730	68
7 8	22 23	20 28	58 58	58 67	59 56	46 44	214 240	44 30	61 77	710 582	488 215	69 82
9	26	42	60	64	59	43	262	27	98	548	106	37
10	25	44	62	e60	58	43	226	28	60	663	85	28
11 12	19 15	46 63	62 58	e62 e48	55 52	68 e25	50 24	26 30	41 24	657 652	93 1830	24 23
13	13	58	59	e49	49	e12	20	40	47	634	1190	24
14	13	55	59	e50	47	e9.0	18	33	23	650	505	26
15	13	69	58	e54	47	e11	25	34	18	712	199	23
16 17	13 12	92 86	59 e56	e56 59	48 52	e8.0 e7.0	28 15	42 379	18 20	718 697	160 125	24 27
18	12	81	e52	59	53	e6.0	16	422	16	681	113	37
19 20	15 16	75 72	e45 e45	63 68	54 49	e5.7 6.4	293 352	396 86	17 17	697 763	70 44	43 26
21	13	67	46	64	49	10	355	53	17	729	98	142
22	26	61	49	67	51	316	370	57	18	640	72	169
23 24	32 29	59 59	49 50	68 66	50 e49	430 464	373 438	69 68	61 603	598 589	113 127	113 54
25	28	60	48	65	50	427	87	67	677	602	71	33
26	28	61	52	65	50	377	40	59	582	706	42	20
27	29	59	54	63	e49	365	35	38	92 66	731	34	19
28 29	31 31	61 64	58 61	63 63	e51 	338 350	29 23	23 31	58	731 955	54 241	19 18
30	23	64	63	62		352	34	45	57	1550	205	17
31	16		63	61		348		30		246	350	
TOTAL MEAN	668 21.5	1630 54.3	1758 56.7	1896 61.2	1490 53.2	4410.1 142	5313 177	2313 74.6	2952 98.4	21143 682	11719 378	1944 64.8
MAX	32	92	67	68	61	464	438	422	677	1550	1830	283
MIN AC-FT	12 1320	18 3230	45 3490	48 3760	47 2960	5.7 8750	15 10540	21 4590	16 5860	246 41940	34 23240	17 3860
							, BY WATER Y		5000	11710	20210	3000
MEAN	36.4	17.8	22.3	24.1	30.7	31.7	164	172	239	301	210	95.3
MAX	233	54.3	71.5	158	507	210	1089	2143	2087	2457	1547	689
(WY) MIN	1949 .84	1997 1.81	1966 .56	1966 .47	1966 .73	1986 1.11	1987 5.90	1987 6.41	1987 3.80	1995 10.2	1965 10.9	1965 1.37
(WY)	1978	1978	1978	1978	1965	1965	1995	1963	1954	1964	1974	1974
SUMMARY	STATISTI	:CS	FOR	1996 CALENI	DAR YEAR	. 1	FOR 1997 WAT	ER YEAR		WATER Y	EARS 1949	- 1997
ANNUAL '				53532.7			57236.1			a ₁₁₂		
ANNUAL I	MEAN ANNUAL M	IEAN		146			157			537		1987
LOWEST	ANNUAL ME	AN								27 0		1975
	DAILY ME			3080 ^C 6.5	May 26		1830 e _{5.7}	Aug 12		b ₂₅₀₀₀		18 1965
	DAILY MEA SEVEN-DAY			6.5 6.6	Jan 11 Jan 10		7 6	Mar 19 Mar 14		· .00		5 1953 LO 1965
	ANEOUS PE						f ₃₈₂₀	Aug 12		9 ₇₃₈₀₀	Jun	18 1965
	ANEOUS PE RUNOFF (A			106200			12.79 113500	Aug 12		h 16.48 80780	3 Jun 3	18 1965
	ENT EXCEE			467			562			394		
50 PERC	ENT EXCEE	DS		58			58			22		
90 PERC	ENT EXCEE	צענ		12			19			4.0		

e-Estimated

a-Average discharge for 30 years (water years 1914-43), 298 ft³/s; 215900 acre-ft/yr, prior to and during construction of John Martin Dam.

Martin Dam.
b-Maximum daily discharge for period of record, 87300 ft³/s, Jun 6, 1921.
c-Also occurred Jan 12, 14.
d-Minimum daily discharge for period of record, no flow at times in 1913-15.
f-From rating curve extended above 3300 ft³/s.
g-Maximum discharge and stage for period of record, 130000 ft³/s, Jun 5, 1921, gage height, 14.55 ft, datum then in use, from rating curve extended above 10000 ft³/s.
h-Datum then in use, from floodmarks.

## 07134100 BIG SANDY CREEK NEAR LAMAR, CO

LOCATION.--Lat 38°06'51", long 102°29'00", in SW1/4SW1/4 sec. 21, T.22 S., R.45 W., Prowers County, Hydrologic Unit 11020011, on right bank 35 ft upstream from State Highway 196, 950 ft upstream from mouth, and 7.5 mi east of Lamar.

DRAINAGE AREA.--3,248 mi².

PERIOD OF RECORD.-- February 1968 to September 1982, July 1995 to current year.

REVISED RECORDS.--WDR CO-71-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 3,545 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges and those above 100 ft3/s, which are poor. Natural flow of stream affected by diversions above station for irrigation and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 21, 1965, reached a stage of 9.93 ft from floodmarks, discharge not determined.

not	icter mine	u.											
	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	52 15 12 13 12	18 15 13 12	24 25 23 22 21	27 27 28 25 27	24 26 25 22 23	29 26 25 24 24	100 28 19 18 14	24 28 24 25 20	18 13 14 13 11	16 16 19 16 17	18 20 e32 e19 39	25 23 21 20 21	
6 7 8 9 10	11 11 11 11 11	11 10 9.0 10	26 27 26 29 28	28 26 27 30 29	22 20 19 25 24	24 24 24 25 24	22 18 17 23 26	21 24 21 21 23	12 16 15 14 13	20 15 14 16 15	e327 e266 193 207 237	20 15 12 17 21	
11 12 13 14 15	12 11 11 9.8 31	11 11 11 11 12	25 25 24 24 22	27 24 25 25 24	24 23 19 20 24	24 25 25 24 24	18 108 88 83 39	23 19 17 14 11	15 70 109 46 28	15 12 11 16 13	253 e251 e97 e161 72	21 16 13 13	
16 17 18 19 20	22 13 11 35 95	12 12 11 12 12	20 17 17 17 17	24 24 21 23 25	23 24 24 24 24	24 24 23 24 20	17 14 14 16 16	12 15 22 26 21	19 62 27 17 18	15 14 13 16 26	46 38 36 35 32	17 16 14 13 7.4	
21 22 23 24 25	78 121 97 23 18	11 11 12 11	19 22 24 23 21	27 24 27 29 25	23 23 23 20 28	25 50 72 49 64	18 19 19 31 38	13 17 17 16 19	13 11 9.4 9.9	25 20 16 15 15	29 28 27 25 23	25 24 23 20 109	
26 27 28 29 30 31	16 14 14 13 31 46	11 11 11 12 17	22 21 24 25 25 27	25 21 21 25 22 24	30 29 31 	85 89 73 67 68 89	28 26 19 15 19	18 12 12 14 12 14	11 13 14 17 16	18 17 17 47 e64 e36	22 21 21 22 23 25	75 23 19 17 16	
TOTAL MEAN MAX MIN AC-FT	880.8 28.4 121 9.8 1750	353.0 11.8 18 9.0 700	712 23.0 29 17 1410	786 25.4 30 21 1560	666 23.8 31 19 1320	1217 39.3 89 20 2410	930 31.0 108 14 1840	575 18.5 28 11 1140	675.3 22.5 109 9.4 1340	605 19.5 64 11 1200	2645 85.3 327 18 5250	691.4 23.0 109 7.4 1370	
		ONTHLY MEA											
MEAN MAX (WY) MIN (WY)	6.33 28.4 1997 .087 1979	12.7 43.8 1971 .41 1978	15.5 45.1 1970 .34 1978	15.9 41.5 1996 .50 1978	18.3 48.0 1971 2.23 1978	18.4 48.8 1974 2.10 1977	17.1 65.3 1970 .81 1978	15.0 41.1 1973 2.14 1975	9.14 22.5 1997 1.77 1976	7.61 27.1 1996 .21 1978	13.7 85.3 1997 .027 1976	9.51 41.8 1976 .084 1978	
SUMMARY	STATIST	CICS	FOR 1	996 CALEN	DAR YEAR	F	OR 1997 WA	TER YEAR		WATER YEA	ARS 1968	- 1997	
LOWEST HIGHEST LOWEST ANNUAL INSTANT	MEAN TANNUAL ANNUAL M TDAILY M DAILY ME SEVEN-DA TANEOUS P	EAN EAN		11045.4 30.2 333 a8.1 9.1	Aug 20 Apr 3 Mar 30		327 7.4 10 534 6.60	Aug 6 Sep 20 Nov 5 Aug 6 Aug 6		13.5 29.4 2.23 619 b.00 c.00 c.2520 8.48	Aug Sep Sep	1997 1979 16 1976 13 1976 1 1976 16 1976 16 1976	
10 PERC 50 PERC	RUNOFF ( CENT EXCE CENT EXCE CENT EXCE	EDS EDS		21910 50 20 11			21300 46 21 12			9760 34 7.0 .70			

e-Estimated.

a-Also occurred Apr 4. b-Also occurred Aug 14-18, 1976, and days during 1977, 1978, and 1979. c-On basis of measurement of peak flow through culvert and over road.

#### 07134180 ARKANSAS RIVER NEAR GRANADA, CO

LOCATION.--Lat 38°05'44", long 102°18'37", in SE1/4NE1/4 sec.36, T.22 S., R.44 W., Prowers County, Hydrologic Unit 11020009, on left bank at upstream side at end of bridge on U.S. Highway 385, 1.2 mi downstream from headgate of Buffalo Canal, and 2.3 mi north of Granada.

DRAINAGE AREA.--23,707 mi².

PERIOD OF RECORD .-- January 1899 to December 1901, gage heights only at different site and datum, August to October 1903 at different datum, December 1980 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 3,480 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by John Martin Reservoir (station 07130000) 38 mi upstream since October 1948. Natural flow of stream affected by transmountain diversion, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of about 500,000 acres, and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

Quin	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	175 134 129 118 109	132 144 126 140 157	135 135 134 134 131	151 151 154 153 145	155 153 154 150 154	145 138 133 135 135	429 382 374 367 305	112 112 106 105 81	100 94 104 97 90	140 433 585 702 722	450 681 1040 1150 749	466 357 316 222 183		
6 7 8 9	113 112 114 116 120	140 129 123 122 113	134 134 130 131	143 144 142 144 149	152 155 147 151 151	134 131 129 125 122	259 259 248 267 286	72 89 96 89 91	90 101 122 140 144	717 720 678 599 645	1440 2230 894 613 510	170 159 152 142 128		
11 12 13 14 15	118 117 114 113 105	102 107 119 119 120	125 123 121 124 115	149 e140 e135 e140 142	151 150 149 148 147	120 144 148 123 134	244 212 170 144 127	90 90 91 92 88	121 116 180 146 111	661 655 633 646 664	498 921 2330 1260 718	119 109 100 96 85		
16 17 18 19 20	115 108 107 85 76	160 158 154 150 145	114 111 112 e115 e130	140 140 143 146 146	140 141 141 142 142	136 132 116 108 101	95 85 81 115 299	87 143 365 454 313	94 89 91 78 80	691 697 669 676 784	509 401 357 325 285	86 85 88 92 97		
21 22 23 24 25	136 152 193 132 116	140 141 135 131 129	144 143 143 141 140	153 152 154 153 149	134 136 136 135 141	101 171 472 550 572	370 401 426 500 402	144 116 122 105 112	83 87 94 268 596	750 689 640 618 597	255 281 234 240 226	164 269 227 182 184		
26 27 28 29 30 31	148 166 156 146 144 155	128 130 129 127 127	138 145 146 147 149 151	147 144 145 150 151 153	147 146 150 	479 419 409 437 411 430	218 162 136 119 115	114 109 96 86 84 99	690 389 191 149 129	667 701 723 891 1300 921	187 169 148 207 299 314	208 137 124 119 114		
TOTAL MEAN MAX MIN AC-FT	3942 127 193 76 7820	3977 133 160 102 7890	4106 132 151 111 8140	4548 147 154 135 9020	4098 146 155 134 8130	7040 227 572 101 13960	7597 253 500 81 15070	3953 128 454 72 7840	4864 162 690 78 9650	21214 684 1300 140 42080	19921 643 2330 148 39510	4980 166 466 85 9880		
STATIST	ICS OF MO	NTHLY MEA	N DATA FO	OR WATER	YEARS 1981	•	BY WATER	YEAR (WY)						
MEAN MAX (WY) MIN (WY)	72.3 184 1984 4.15 1993	86.5 149 1987 9.68 1982	105 157 1988 35.4 1982	100 147 1997 39.8 1994	101 146 1997 55.9 1982	99.9 249 1987 22.7 1994	189 1138 1987 5.68 1992	239 2072 1987 4.51 1992	332 2196 1987 9.39 1981	463 2144 1995 130 1990	248 643 1997 4.39 1990	123 430 1984 4.13 1990		
SUMMARY	STATISTI	:CS	FOR 1	L996 CALE	NDAR YEAR	F	OR 1997 WAS	TER YEAR		WATER YE	ARS 1981	- 1997		
LOWEST HIGHEST LOWEST ANNUAL		AN AN AN MINIMUM		85745 234 2900 49 56	May 27 Mar 11 Feb 29		90240 247 2330 72 86 3570	Aug 13 May 6 Jun 16 Aug 13		187 597 59.3 3330 2.7 3.0 b ₃₅ 70	Aug : Aug : Aug :	1987 1992 26 1987 17 1990 14 1990 13 1997		
ANNUAL 10 PERC 50 PERC	ANEOUS PE RUNOFF (A ENT EXCEE ENT EXCEE ENT EXCEE	C-FT) DS DS		170100 524 143 90			11.67 179000 636 144 96	Aug 13		C11.67 135200 458 92 6.9	Aug 1	13 1997		

e-Estimated.

a-Also occurred Aug 18-19, 1990. b-From rating curve extended above 3500 ft³/s. c-Maximum gage height, 12.38 ft, May 27, 1996.

#### 07134990 WILD HORSE CREEK ABOVE HOLLY, CO

LOCATION. (REVISED)--Lat 38°03'24", long 102°08'16", in NE¹/4NE¹/4 sec. 16, T.23 S., R.42 W., Prowers County, Hydrologic Unit 11020009, on left bank, 1,000 ft downstream from County Road No. 34, 0.7 mi northwest of Holly, and 0.7 mi upstream from mouth

DRAINAGE AREA.--270 mi², approximately.

PERIOD OF RECORD.--June 1995 to current year (seasonal records only).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 3,405 ft above sea level, from topographic map. Prior to Apr. 29, 1997 at a site 1,050 ft upstream at datum 3.00 ft higher.

REMARKS.--Records fair except for the period Oct. 1 to Nov. 12, and estimated daily discharges, which are poor. Natural flow of stream affected by diversions above station for irrigation and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge during period of seasonal operation, 1,270 ft³/s, May 26, 1996 from rating curve extended above 200 ft³/s on the basis of slope-area measurement of peak flow, gage height, 6.90 ft from flood mark, at site and datum then in use, maximum gage height 8.63 ft, Aug. 7, 1997, from flood mark; minimum daily, 3.1 ft³/s, Sept. 19, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 874 ft³/s, Aug. 7, from rating curve extended above 200 ft³/s, on basis of slope-area measurement of peak flow, gage height, 8.63 ft from flood mark; minimum daily, 3.7 ft³/s, July 25.

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

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	115						10	47	8.1	18	56
2	11	135						6.4	e44	7.4	6.0	23
3	13	135						22	e42	7.1	28	22
4	6.8	124						4.5	40	8.2	30	20
5	25	101						5.4	36	8.4	e27	18
6	48	59						6.1	22	9.9	e100	17
7	30	22						10	7.7	7.5	e400	15
8	24	31						5.6	9.4	5.9	41	14
9	20	46						6.6	7.9	5.0	30	14
10	33	34						7.5	6.9	4.8	58	14
11	38	22						16	6.4	4.9	265	12
12	29	18						12	11	6.4	216	13
13	33							8.9	9.2	5.5	105	11
14	43							5.7	10	5.1	168	10
15	55							4.8	7.8	7.8	63	12
16	112							4.5	5.3	4.6	69	12
17	126							5.1	9.4	7.1	346	12
18	89							5.8	9.5	4.3	141	10
19	123							7.7	6.6	7.2	116	8.5
20	223							6.2	5.4	23	97	11
21	118							5.7	5.0	7.4	88	57
22	21							15	5.3	4.4	81	85
23	18							17	4.9	3.9	80	75
24	18							6.9	6.7	3.8	97	78
25	16							62	16	3.7	89	127
26	42							58	12	3.9	68	61
27	86							48	6.4	4.6	52	60
28	120							28	5.9	7.9	52	124
29	109						11	33	5.3	47	55	186
30	113						12	28	8.6	49	67	106
31	111							39		45	69	
TOTAL	1866.8							501.4	419.6	328.8	3122.0	1283.5
MEAN	60.2							16.2	14.0	10.6	101	42.8
MAX	223							62	47	49	400	186
MIN	6.8							4.5	4.9	3.7	6.0	8.5
AC-FT	3700							995	832	652	6190	2550

e-Estimated.

#### 07135000 TWO BUTTE CREEK NEAR HOLLY, CO

LOCATION.--Lat 38°01'40", long 102°08'19", in SE¹/4SE¹/4 sec. 21, T.23 S., R.42 W., Prowers County, Hydrologic Unit 11020013, on right bank, 15 ft upstream from county road DD, 1.0 mi upstream from mouth, and 2.9 mi southwest of Holly.

DRAINAGE AREA.--817 mi².

PERIOD OF RECORD.--April 1942 to September 1946. June 1995 to current year (seasonal records only).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 3,415 ft above sea level, from topographic map. Apr. 1942 to Sept. 1946 at site 0.5 mi upstream, at different datum.

REMARKS.--Records fair. Natural flow of stream affected by Two Butte Reservoir, (capacity, 40,000 acre-feet), from which most of creek is diverted for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,800 ft³/s, May 2, 1944, from slope-area measurement of peak flow, gage height, 4.77 ft, at different site and datum, maximum gage height, 8.68 ft, May 26, 1996, from floodmarks, at current site and datum; minimum daily, no flow most of the time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 186 ft³/s, July 20 from rating curve extended above 9.0 ft³/s on the basis of slope-area measurement of peak flow, gage height, 5.80 ft; minimum daily, no flow most of the time.

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00	.00 .00 .00 .00	  			  	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00					.00	.00	.00 .00 .00 .00	.00 .00 .00 .00	8.2 16 .10 .00 .35	.00 .00 .00 .00
11 12 13 14 15	.00 .00 .00 .00	.00	  	  	  	  	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	31 63 12 .08 .00	.00 .00 .00 .00
16 17 18 19 20	.00 .00 .00 .00	  	  	  		 .00 .00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
21 22 23 24 25	.00 .00 .00 .00	  	  	  	  	.00 .00 .00 .00	.00	.00 .04 .00 .00	.00 .00 .00 .00	1.1 .00 .35 .00	.00 .00 .00 .00	.00 .00 .00 .00
26 27 28 29 30 31	.00 .00 .00 .00 .00	  	   	  	  	.00	.00	.00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
TOTAL MEAN MAX MIN AC-FT	0.00 .000 .00 .00		  	  	  	  	0.00 .000 .00 .00	0.04 .001 .04 .00	0.00 .000 .00 .00	36.45 1.18 35 .00 72	143.73 4.64 63 .00 285	0.00 .000 .00 .00

## 07137000 FRONTIER DITCH NEAR COOLIDGE, KS

 $LOCATION.--Lat\ 38^{0}02'18", long\ 102^{0}02'19", in\ SW^{1/4}SE^{1/4}NE^{1/4}\ sec. 21,\ T.23\ S.,\ R.43\ W.,\ Hamilton\ County,\ Hydrologic\ Unit\ 11030001,\ on\ left\ bank\ 0.3\ mi\ east\ of\ Colorado-Kansas\ State\ line,\ 0.5\ mi\ downstream\ from\ Holly\ drain\ diversion,\ 1.5\ mi\ west\ of\ Coolidge,\ and\ 2.3\ mi\ downstream\ from\ diversion\ of\ the\ Arkansas\ River.$ 

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

REVISED RECORDS .-- WSP 1731: 1951.

GAGE.--Water-stage recorders and Parshall flume. Datum of gage is 3,343.14 ft above sea level.

REMARKS.--Records good. This ditch diverts water from the Arkansas River in Colorado for use in Kansas. These records and records for the Arkansas River near Coolidge represent total flow of the Arkansas River at the Colorado-Kansas State line. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 84 ft³/s, Aug. 1, 1975; no flow many days each year.

		DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	es May	JUN	JUL	AUG	SEP	
1	.00	.00	.00	.00	.00	.00	.00	35	.00	32	35	31	
2	.00	.00	.00	.00	.00	.00	.00	35	.00	32	31	31	
3	.00	.00	.00	.00	.00	.00	.00	33	.00	33	30	31	
4	.00	.00	.00	.00	.00	.00	.00	34	.00	33	23	31	
5	.00	.00	.00	.00	.00	.00	.00	33	.00	32	.00	31	
6	.00	.00	.00	.00	.00	.00	.00	34	.00	32	.00	31	
7	.00	.00	.00	.00	.00	.00	.00	33	.00	32	.00	31	
8	.00	.00	.00	.00	.00	.00	.00	33	12	29	.00	31	
9	.00	.00	.00	.00	.00	.00		33	31	29 29		33	
							.00				.01		
10	5.6	.00	.00	.00	.00	.00	.00	34	32	28	.01	37	
11	28	.00	.00	.00	.00	.00	.00	34	31	28	.08	38	
12	28	.00	.00	.00	.00	.00	.00	18	31	28	.00	39	
13	28	.00	.00	.00	.00	.00	.00	23	31	27	.00	39	
14	28	.00	.00	.00	.00	.00	.00	24	32	27	.00	39	
15	29	.00	.00	.00	.00	.00	.00	33	32	27	.11	39	
13	29	.00	.00	.00	.00	.00	.00	33	32	27	.11	39	
16	29	.00	.00	.00	.00	.00	.00	32	24	27	.00	39	
17	14	.00	.00	.00	.00	.00	.00	7.2	.32	27	.00	39	
18	.00	.00	.00	.00	.00	.00	.00	.00	.01	27	.00	39	
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	26	.00	40	
20	.00	.00	.00	.00	.00	.00	.00	26	8.6	27	.00	39	
21	.00	.00	.00	.00	.00	.00	15	33	29	23	2.2	22	
22	.00	.00	.00	.00	.00	.00	.00	29	29	17	16	1.2	
23	.00	.00	.00	.00	.00	.00	.00	.03	28	25	31	1.1	
24	.00	.00	.00	.00	.00	.00	.06	.00	23	22	31	.77	
25													
25	.00	.00	.00	.00	.00	.00	.02	.00	23	29	31	.48	
26	.00	.00	.00	.00	.00	.00	.00	.00	2.2	30	30	.32	
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	30	31	.16	
28	.00	.00	.00	.00	.00	.00	22	.00	.00	29	31	.01	
29	.00	.00	.00	.00		.00	35	.00	7.2	23	32	8.1	
30	.00	.00	.00	.00		.00	35	.00	31	.00	31	40	
31	.00		.00	.00		.00		.00		6.7	31		
TOTAL	189.60	0.00	0.00	0.00	0.00	0.00	107.08	596.23	437.33	815.70	416.41	782.14	
MEAN	6.12	.000	.000	.000	.000	.000	3.57	19.2	14.6	26.3	13.4	26.1	
MAX	29	.00	.00	.00	.00	.000	35	35	32	33	35	40	
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	
MIN AC-FT	376	.00	.00	.00	.00	.00	212	1180	867	1620	826	1550	
AC-FI	310	.00	.00	.00	.00	. 00	212	1100	007	1020	020	T 2 2 0	

CAL YR 1996 TOTAL 2964.78 MEAN 8.10 MAX 48 MIN .00 AC-FT 5880 WTR YR 1997 TOTAL 3344.49 MEAN 9.16 MAX 40 MIN .00 AC-FT 6630

#### 07137500 ARKANSAS RIVER NEAR COOLIDGE, KS

LOCATION.--Lat 38°01'34", long 102°00'41", in NW¹/4NE¹/4NW¹/4 sec.26, T.23 S., R.43 W., Hamilton County, Hydrologic Unit 11030001, on right bank at downstream side of county highway bridge, 1.0 mi south of Coolidge, 1.9 mi downstream from Colorado-Kansas State line, and at mile 1,099.3.

DRAINAGE AREA.--25,410 mi², of which 1,708 mi² is probably noncontributing.

PERIOD OF RECORD.--May to October 1903, March to May 1921, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1311. Water-quality data available, 1964 to 1968, 1970 to 1973, and 1975 to 1995.

REVISED RECORDS.--WSP 1341: 1903, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,330.84 ft above sea level. May 5 to Oct. 31, 1903, nonrecording gage, and Mar. 1 to May 31, 1921, water-stage recorder at present site at different datum. Oct. 1, 1950 to Mar. 31, 1966, water-stage recorder at site 0.3 mi upstream at datum 3.00 ft higher.

REMARKS.--Records good. Combined flow of river and Frontier Ditch (station 07137000) represents entire flow that enters Kansas. Flow regulated since 1943 by John Martin Reservoir (station 07130000). Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of about 500,000 acres, and return flow from irrigated areas. Satellite telemeter at station.

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	296	266	230	224	212	208	528	225	290	217	720	524
2	320	263	234	224	211	203	505	231	295	288	635	501
3	290	247	231	225	213	199	592	239	298	458	974	473
4	242	246	234	222	210	196	552	228	289	592	1330	400
5	223	236	235	215	205	198	490	209	264	666	1210	348
6	223	224	235	208	205	201	415	205	258	699	1800	324
7	228	211	236	207	207	201	396	216	269	716	2800	321
8	229	204	235	209	203	199	382	214	281	719	1900	312
9	232	205	236	210	202	191	406	220	286	671	1100	282
10	217	215	236	213	206	187	470	206	305	654	944	256
11	187	208	230	214	207	185	470	210	286	697	1150	233
12	180	201	224	210	206	190	523	246	285	691	1290	238
13	175	217	223	205	203	209	502	233	317	689	1970	241
14	168	230	226	200	198	211	440	211	320	694	2620	236
15	165	233	228	215	199	218	302	177	274	723	1410	242
16	177	243	230	208	198	219	246	168	257	733	979	234
17	204	250	233	204	200	211	223	188	277	735	1310	230
18	252	259	215	206	200	196	202	284	234	734	847	216
19	243	257	204	207	199	191	193	410	208	759	707	214
20	242	244	223	210	201	182	277	429	172	902	641	241
21	239	235	222	214	198	176	382	288	150	879	567	334
22	247	234	222	215	193	175	445	347	158	844	596	500
23	270	233	223	217	197	313	479	382	155	780	550	508
24	284	222	220	215	200	482	537	285	172	746	532	446
25	269	224	221	212	199	538	666	267	389	729	448	464
26 27 28 29 30 31	256 293 301 284 321 292	226 228 235 239 234	223 225 223 222 222 222	210 203 198 201 206 210	210 207 209 	558 561 551 531 534 529	473 371 297 249 228	255 254 238 240 252 274	612 591 369 297 247	744 786 806 1010 1210 1520	389 348 321 351 418 439	433 402 376 421 346
MEAN	244	232	227	211	204	288	408	253	287	745	1010	343
MAX	321	266	236	225	213	561	666	429	612	1520	2800	524
MIN	165	201	204	198	193	175	193	168	150	217	321	214
AC-FT	14970	13820	13930	12970	11300	17740	24280	15530	17070	45800	62080	20420
							BY WATER					
MEAN	122	108	114	113	125	117	204	284	456	341	316	182
MAX	331	256	270	274	602	331	1221	2106	8221	2255	1979	1079
(WY)	1985	1988	1966	1966	1966	1960	1987	1987	1965	1995	1965	1965
MIN	1.97	1.53	3.94	3.14	5.52	5.63	9.43	6.61	4.20	3.59	1.94	.90
(WY)	1979	1979	1979	1979	1978	1978	1979	1963	1954	1974	1964	1960
SUMMARY	STATIST	ICS	FOR	1996 CALE	NDAR YEAR	FOR 1997 WATER YEAR				WATER YEARS 1951 - 1997		
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT)			3640 e,a ₁₅₀ 159	May 28 Jan 19 Feb 29		373 2800 150 178 3480 8.25 269900	Aug 7 Jun 21 Jun 18 Aug 14 Aug 14		207 1012 19.8 101000 .00 .00 158000 14.80 150000	Jul Jul Jun	1965 1979 18 1965 9 1954 9 1954 17 1965 17 1965	
10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			679 267 174			711 239 199			431 120 9.3			

e-Estimated. a-Also occurred Feb 3.

## WESTERN GULF OF MEXICO BASIN RIO GRANDE BASIN

## 08213500 RIO GRANDE AT THIRTYMILE BRIDGE, NEAR CREEDE, CO

 $LOCATION.--Lat~37^o43'29", long~107^o15'18", in~SW^{1/4}NE^{1/4}~sec.13, T.40~N., R.4~W., Hinsdale~County, Hydrologic~Unit~13010001, on~right~bank~70~ft~downstream~from~bridge, 500~ft~upstream~from~Squaw~Creek, 0.8~mi~downstream~from~Rio~Grande~Reservoir, and~county~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~figures~f$ 20 mi southwest of Creede.

DRAINAGE AREA.--163 mi².

PERIOD OF RECORD .-- June 1909 to September 1923, May 1925 to current year. No winter records 1910, 1926. Monthly discharge only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,300 ft above sea level, from topographic map. See WSP 1712 or 1732 for history of changes prior to Oct. 1, 1934.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Rio Grande Reservoir, capacity, 51,110 acre-ft, since 1912. Natural flow of stream affected by transmountain diversions from Colorado River basin to drainage area upstream from station through Weminuche Pass and Pine River-Weminuche Pass ditches. No known diversions upstream from

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

COOF	EKATIO	NRecords	s conected	i and comp	outed by Co	norado i	DIVISION OF	water Kes	sources a	iliu leviewe	a by Geo.	logical St
			DISC	HARGE, CUE	SIC FEET PER		, WATER YEA Y MEAN VAL		R 1996 TO	SEPTEMBER 1	1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	70 70 90 127 179	e3.5 e3.5 e3.5 e3.5 e3.5	e4.0 e4.0 e4.0 e4.0	e5.0 e5.0 e5.0 e5.0	e6.0 e6.0 e6.0 e6.0	e7.0 e7.0 e7.0 e7.0	e7.7 e7.7 e7.7 e7.7 e63	361 339 327 327 397	1290 1380 1170 1180 1210	1420 1310 969 1000 1230	988 969 923 881 774	320 311 301 288 276
6 7 8 9 10	167 148 160 167 170	e3.5 e3.5 e3.5 e3.5 e3.5	e4.0 e4.0 e4.0 e4.0	e5.0 e5.0 e5.0 e5.0	e6.0 e6.0 e6.0 e6.0	e7.0 e7.0 e7.0 e7.0	e90 e80 e80 e67 e65	541 682 576 514 414	981 1080 1080 1030 847	1140 827 921 1080 1040	714 630 577 545 450	224 196 192 184 141
11 12 13 14 15	167 133 95 78 e78	e3.5 e3.5 e3.5 e3.5 e3.5	e4.0 e4.0 e4.5 e4.5	e5.0 e5.5 e5.5 e5.5	e6.0 e6.5 e6.5 e6.5 e6.5	e7.0 e7.0 e7.5 e7.5	e65 e50 e50 e50 e40	476 e744 765 816 856	764 771 778 863 919	1010 1130 1150 972 984	422 443 413 347 308	127 131 123 118 124
16 17 18 19 20	78 78 78 78 78	e3.5 e3.5 e3.5 e3.5 e3.5	e4.5 e4.5 e4.5 e4.5	e5.5 e5.5 e5.5 e5.5	e6.5 e6.5 e6.5 e6.5	e7.5 e7.5 e7.5 e7.5	e40 e35 58 88 147	918 1130 1460 938 906	979 949 1060 994 1070	1190 1170 1250 1300 1330	273 246 214 219 208	145 152 190 176 158
21 22 23 24 25	78 78 78 78 78	e3.5 e3.5 e3.5 e3.5 e3.5	e4.5 e4.5 e4.5 e4.5	e5.5 e5.5 e5.5 e5.5	e6.5 e6.5 e6.5 e6.5	e7.5 e7.5 e7.5 e7.5 e7.5	203 294 323 268 246	774 648 634 813 624	1420 1280 1130 948 1140	1370 1210 1260 1110 933	197 184 191 197 198	270 374 337 375 376
26 27 28 29 30 31	78 68 64 62 e30 e3.5	e3.5 e3.5 e3.5 e4.0 e4.0	e4.5 e4.5 e4.5 e5.0 e5.0	e5.5 e5.5 e6.0 e6.0 e6.0	e6.5 e7.0 e7.0 	e7.5 e7.5 e7.7 e7.7 e7.7	246 383 390 450 406	572 487 433 483 707 895	1350 1370 1320 1350 1380	912 935 1040 1130 1110 1040	198 268 289 267 315 328	381 386 381 367 355
TOTAL MEAN MAX MIN AC-FT	2984.5 96.3 179 3.5 5920	106.0 3.53 4.0 3.5 210	134.5 4.34 5.0 4.0 267	166.5 5.37 6.0 5.0 330	177.5 6.34 7.0 6.0 352	226.8 7.32 7.7 7.0 450	4307.8 144 450 7.7 8540	20557 663 1460 327 40770	33083 1103 1420 764 65620	34473 1112 1420 827 68380	13176 425 988 184 26130	7479 249 386 118 14830
STATIS	TICS OF N	MONTHLY MEA	AN DATA F	OR WATER Y	EARS 1909	- 1997	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	97.1 648 1912 2.00 1937	29.2 280 1917 .39 1993	9.34 116 1912 .40 1952	9.28 89.0 1912 .40 1952	9.17 81.0 1912 .40 1952	12.0 88.6 1916 .40 1952	102 368 1950 5.63 1983	495 907 1958 75.0 1938	908 1842 1917 139 1934	540 1246 1986 54.2 1934	248 612 1957 40.4 1940	106 467 1909 25.8 1956
SUMMAR	Y STATIST	rics	FOR	1996 CALEN	IDAR YEAR	I	FOR 1997 WA	TER YEAR		WATER YE	EARS 1909	- 1997
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN			64074.0 175 1300 e,a _{3.5}	May 17		116871.6 320 1460 e,a _{3.5}	May 18		213 362 77.7 5720		1986 1977 29 1927	
LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				127100 759 46 4.0	Oct 31 Oct 31		3.5 3.5 1670 4.07 231800 1070 78 4.0	Oct 31 Oct 31 Jun 2 Jun 2		21 27500 7.03 154200 748 51 2.5	Nov Jun	2 1960 2 1960 28 1927 28 1927

e-Estimated.

a-Also occurred Nov 1-28. b-Also occurred Nov 3-4, 1960. c-Present site and datum, from rating curve extended above 1200 ft³/s.

## 08214500 NORTH CLEAR CREEK BELOW CONTINENTAL RESERVOIR, CO

LOCATION.--Lat 37°53'18", long 107°12'10", in NE1/4SW1/4 sec.21, T.42 N., R.3 W., Hinsdale County, Hydrologic Unit 13010001, on left bank 100 ft downstream from bridge, 1,000 ft downstream from Continental Reservoir, and 15 mi west of Creede.

DRAINAGE AREA.--51.7 mi².

PERIOD OF RECORD.--May 1929 to current year. Monthly discharge only for some periods, published in WSP 1312. Prior to October 1960, published as Clear Creek below Continental Reservoir.

REVISED RECORDS.--WSP 1008: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Elevation of gage is 10,200 ft above sea level, from topographic map. Prior to Oct. 2, 1951, at site 150 ft upstream, at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Continental Reservoir, capacity, 26,720 acre-ft. No diversion upstream from station.

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

			DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	14 12 14 19 26	. 25 . 25 . 25 . 25 . 25	e.25 e.25 e.25 e.25 e.25	e.25 e.25 e.25 e.25 e.25	e.30 e.30 e.30 e.30	e.30 e.30 e.30 e.30	e.35 e.35 e.35 e.35	. 25 . 25 . 25 . 29 . 34	190 256 261 231 230	189 185 174 177 185	43 43 42 37 35	26 26 26 26 26		
6 7 8 9 10	27 29 29 22 17	. 25 . 25 . 25 . 25 e . 25	e.25 e.25 e.25 e.25 e.25	e.25 e.25 e.25 e.25 e.25	e.30 e.30 e.30 e.30	e.30 e.30 e.30 e.30	e.35 e.35 e.35 e.35	.35 .35 .35 .35	142 73 56 122 172	187 185 184 188	35 36 36 36 36	26 26 24 23 23		
11 12 13 14 15	16 15 15 15 16	e.25 e.25 e.25 e.25 e.25	e.25 e.25 e.25 e.25 e.25	e.25 e.25 e.25 e.25 e.25	e.30 e.30 e.30 e.30	e.30 e.30 e.30 e.30	e.35 e.35 e.35 e.35	.35 .35 100 285 428	173 157 125 113 113	189 189 182 175 143	36 36 36 35 35	23 23 20 18 18		
16 17 18 19 20	16 16 14 13	e.25 e.25 e.25 e.25 e.25	e.25 e.25 e.25 e.25 e.25	e.30 e.30 e.30 e.30	e.30 e.30 e.30 e.30	e.35 e.35 e.35 e.35	e.35 e.35 e.35 e.35	404 366 414 348 385	113 113 118 128 132	142 160 160 86 60	33 27 25 25 25	19 19 19 20 20		
21 22 23 24 25	13 13 13 13	e.25 e.25 e.25 e.25 e.25	e.25 e.25 e.25 e.25 e.25	e.30 e.30 e.30 e.30	e.30 e.30 e.30 e.30	e.35 e.35 e.35 e.35 e.35	e.35 e.35 e.35 e.35 e.35	445 432 331 193 172	132 122 102 94 85	83 85 82 78 70	25 23 21 21 21	22 33 68 94 88		
26 27 28 29 30 31	16 16 16 18 4.8 .29	e.25 e.25 e.25 e.25 e.25	e.25 e.25 e.25 e.25 e.25 e.25	e.30 e.30 e.30 e.30 e.30	e.30 e.30 e.30	e.35 e.35 e.35 e.35 e.35	e.35 e.35 e.35 e.35	170 153 119 80 89 103	80 79 83 85 144	54 46 46 47 45 43	22 23 23 23 23 24	42 22 22 19 15		
TOTAL MEAN MAX MIN AC-FT	495.09 16.0 29 .29 982	7.50 .25 .25 .25 .25	7.75 .25 .25 .25 .25	8.55 .28 .30 .25	8.40 .30 .30 .30 .17	10.10 .33 .35 .30 20	10.40 .35 .35 .25	5020.83 162 445 .25 9960	4024 134 261 56 7980	4007 129 189 43 7950	941 30.4 43 21 1870	876 29.2 94 15 1740		
		MONTHLY MEAN												
MEAN MAX (WY) MIN (WY)	13.2 72.4 1979 .20 1989	7.36 100 1985 .10 1989	3.47 20.0 1942 .11 1989	3.59 20.0 1939 .12 1989	3.75 20.0 1939 .13 1989	4.29 20.0 1939 .14 1989	21.1 80.9 1985 .19 1984	86.5 209 1987 11.3 1994	85.6 166 1987 13.0 1977	69.4 234 1958 11.6 1963	47.1 216 1948 2.78 1978	20.0 106 1995 4.59 1946		
SUMMAR	Y STATIS	TICS	FOR	1996 CALEND	DAR YEAR	F	OR 1997	WATER YEAR		WATER YE	ARS 1929	- 1997		
LOWEST		MEAN		10118.59 27.6	May 31		15416. 42. 445			30.5 54.5 8.55 445	May 3	1948 1977 21 1997		
LOWEST ANNUAL INSTAN	DAILY M SEVEN-D TANEOUS	EAN AY MINIMUM PEAK FLOW		a.25 .25	Nov 1 Nov 1		b 514	25 Nov 1 25 Nov 1 May 15		^C .00 .05	Jun 2 Apr 2 May 1	22 1935 23 1984 .5 1997		
ANNUAL 10 PER 50 PER	TANEOUS : RUNOFF CENT EXC CENT EXC CENT EXC	EEDS EEDS		20070 81 12 .25			30580 158	43 May 15 35 25		3.43 22090 96 11	May 1	5 1997		

e-Estimated

e-Estimated.
a-Also occurred Nov 2 to Dec 31, (estimated days, Nov 10 to Dec 31).
b-Also occurred Nov 2 to Jan 15, (estimated days, Nov 10 to Jan 15) and Apr 30 to May 3.
c-Also occurred Jan 23, 1935, and Sep 25-27, 1990.
d-Maximum gage height for period of record, 3.66 ft, occurred May 8, 1952.

## 08217500 RIO GRANDE AT WAGON WHEEL GAP, CO

LOCATION.--Lat 37°46'01", long 106°49'51", in NW1/4NE1/4 sec.35, T.41 N., R.1 E., Mineral County, Hydrologic Unit 13010001, on right bank 250 ft upstream from private bridge, 0.4 mi upstream from Goose Creek, and 0.4 mi west of town of Wagon Wheel Gap.

DRAINAGE AREA.--780 mi².

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

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,430 ft above sea level, from topographic map.

REMARKS.--Records good except discharges below 200 ft³/s, which are fair, and estimated daily discharges, which are poor. Flow regulated by Santa Maria, Rio Grande, and Continental Reservoirs, combined capacity, 121,400 acre-ft. Diversions upstream from station for irrigation. Transmountain diversions to drainage area upstream from station from Colorado River basin (see elsewhere in this report). Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

1 208 132 e98 e110 e110 e106 248 769 3540 2370 1610 74 2 206 119 e97 e110 e109 e112 233 729 4170 2270 1490 698 3 257 128 e93 e110 e108 e109 216 701 3420 1990 1440 66 4 438 145 e95 e105 e102 e106 225 761 3420 1720 1360 63 5 422 141 e99 e96 e98 e108 206 918 3490 1720 1360 63 6 446 142 e104 e94 e96 e110 272 1220 3170 1970 1340 57 7 507 111 e108 e96 e95 e112 296 1510 2890 1690 1330 52 8 467 119 e110 e100 e91 e112 288 1550 3140 1690 1120 46 10 394 130 e110 e105 e98 e121 266 1240 2780 1790 1080 47  11 395 115 e110 e95 e102 e130 264 1220 2650 1760 1040 46 12 390 122 e110 e94 e105 e134 232 1620 2640 1830 981 48 13 351 136 e110 e96 e110 e125 239 1980 2670 1930 989 40 14 263 141 e108 e95 e102 e130 232 2290 2540 1740 872 41 15 253 148 e105 e92 e112 e128 234 2490 2510 1650 809 40 16 249 113 e97 e94 e115 e130 238 2920 2500 1720 744 48 18 229 134 e92 e110 e112 e128 238 234 2490 2510 1650 809 40 16 249 113 e97 e94 e115 e136 232 2290 2540 1740 872 41 15 253 148 e105 e92 e112 e128 234 2490 2510 1650 809 40 16 249 113 e97 e94 e115 e130 238 2920 2500 1720 744 88 17 240 107 e92 e98 e115 e136 272 3110 2470 1860 736 48 18 229 134 e92 e110 e112 e128 334 2490 2510 1650 809 40 16 249 113 e97 e94 e115 e136 272 3110 2470 1860 736 48 18 229 134 e92 e110 e112 e128 334 2490 2510 1650 809 40 16 249 113 e97 e94 e115 e136 272 3110 2470 1860 736 48 18 229 134 e92 e110 e112 e145 300 3360 2490 1810 701 43 19 235 166 e93 e115 e112 e155 373 3340 2690 1920 659 52 20 244 146 e95 e110 e104 e172 473 2620 2610 1950 626 48 21 233 133 e100 e105 e96 205 606 3020 2890 1900 601 130 22 209 158 e104 e106 e98 235 779 2440 2860 1730 581 162 24 230 109 e100 e109 e96 247 717 2530 2390 1770 578 146 25 26 e109 e112 e112 e98 213 588 2110 2400 1280 617 115 27 225 e103 e115 e108 e99 231 617 1880 2410 1460 582 103 28 214 e98 e115 e108 e99 231 617 1880 2410 1460 582 103 30 e170 e98 e110 e102 252 771 1700 2290 1470 647 96 30 e170 e98 e110 e102 244 845 1830 2310 1780 618	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES													
2 206 119 e97 e110 e109 e112 233 729 4170 2270 14490 69 3 257 128 e93 e110 e108 e109 216 701 3420 1990 1440 65 4 438 145 e95 e105 e102 e106 225 761 3420 1720 1360 63 5 422 141 e99 e96 e98 e108 206 918 3490 1920 1470 64 6 446 142 e104 e94 e96 e110 272 1220 3170 1970 1340 57 7 507 111 e108 e96 e95 e112 296 1510 2890 1690 1330 52 8 467 119 e110 e100 e91 e112 288 1550 3140 1690 1130 52 8 467 119 e110 e105 e98 e121 266 1240 2780 1790 1080 47 11 395 115 e110 e105 e98 e121 266 1240 2780 1790 1080 47 11 395 115 e110 e94 e105 e134 232 1620 2640 1830 981 45 13 351 136 e110 e96 e110 e122 232 1620 2640 1830 981 45 13 351 136 e110 e96 e110 e122 232 1620 2640 1830 981 45 14 263 141 e108 e95 e110 e120 232 2290 2540 1740 872 41 15 253 148 e105 e92 e112 e128 234 2490 2510 1650 809 40 16 249 113 e97 e94 e115 e130 238 2920 2500 1720 744 48 17 240 107 e92 e98 e112 e128 234 2490 2510 1650 809 40 16 249 113 e97 e94 e115 e136 272 3110 2470 1860 736 45 18 229 134 e92 e110 e112 e125 373 3340 2690 1920 659 52 20 244 146 e95 e110 e104 e172 473 2620 2610 1950 669 52 20 244 146 e95 e110 e104 e172 473 2620 2610 1950 669 52 21 233 133 e100 e105 e96 205 606 3020 2890 1900 601 130 22 2209 158 e104 e106 e98 235 739 2840 2860 1730 583 196 23 233 149 e106 e107 e95 252 787 2620 2610 1690 581 162 24 250 e109 e112 e112 e98 213 588 2110 2400 1280 581 162 24 226 e109 e112 e112 e98 213 588 2110 2400 1280 581 162 25 251 166 e99 e100 e109 e96 247 717 2530 2390 1700 564 130 28 224 230 109 e100 e109 e96 247 717 2530 2390 1700 564 130 28 224 230 109 e100 e109 e96 247 717 2530 2390 1700 564 130 28 224 e98 e115 e108 e99 231 617 1980 2410 1460 582 103 28 224 e98 e115 e108 e99 231 617 1980 2410 1460 582 103 28 224 e98 e115 e108 e99 231 617 1980 2410 1460 582 103 29 198 e98 e112 e109 252 771 1700 2290 1470 647 96 29 198 e98 e112 e109 252 771 1700 2290 1470 647 96 29 198 e98 e112 e109 252 771 1700 2290 1470 647 96 29 198 e98 e110 e112 234 845 1830 2310 1780 618	DAY OCT NOV	7 DEC JAN FEB MAR APR MAY	JUN JUL AUG SEP											
7 507 111 e108 e96 e95 e112 296 1510 2890 1690 1330 52 8 467 119 e110 e100 e91 e112 288 1550 3140 1690 1120 48 9 423 135 e110 e102 e93 e118 280 1350 2750 1830 1040 46 10 394 130 e110 e105 e98 e121 266 1240 2780 1790 1080 47  11 395 115 e110 e95 e102 e130 264 1220 2650 1760 1040 44 12 390 122 e110 e94 e105 e134 232 1620 2640 1830 981 45 13 351 136 e110 e96 e110 e125 239 1980 2670 1930 959 42 14 263 141 e108 e95 e110 e120 232 2290 2540 1740 872 41 15 253 148 e105 e92 e112 e128 234 2490 2510 1650 809 40  16 249 113 e97 e94 e115 e130 238 2920 2500 1720 744 48 17 240 107 e92 e98 e115 e136 272 3110 2470 1860 736 45 18 229 134 e92 e110 e112 e125 373 3340 2690 1920 659 52 20 244 146 e95 e110 e104 e172 473 2620 2610 1950 626 48  21 233 133 e100 e105 e96 205 606 3020 2890 1900 601 130 22 209 158 e104 e106 e98 235 739 2840 2860 1730 583 196 23 233 149 e106 e107 e95 252 787 2620 2610 1950 626 48  24 230 109 e100 e109 e96 247 717 2530 2390 1770 578 140 25 231 110 e108 e110 e96 219 617 2510 2190 1370 564 133  26 26 26 e109 e112 e112 e188 e99 231 617 2510 2190 1370 564 133  28 214 e98 e115 e108 e99 231 617 1980 2410 1460 582 103 28 214 e98 e115 e108 e99 231 617 1980 2410 1460 582 103 28 214 e98 e115 e108 e99 231 617 1980 2410 1460 582 103 28 214 e98 e115 e108 e99 231 617 1980 2410 1460 582 103 28 214 e98 e115 e108 e99 231 617 1980 2410 1460 582 103 28 214 e98 e115 e108 e99 231 617 1980 2410 1460 582 103 28 214 e98 e115 e108 e99 231 617 1980 2410 1460 582 103 28 214 e98 e115 e108 e99 231 617 1980 2410 1460 582 103 28 214 e98 e115 e108 e99 231 617 1980 2410 1460 582 103 29 198 e98 e110 e112 252 771 1700 2290 1470 647 96 29 198 e98 e110 e112 252 771 1700 2290 1470 647 96 29 198 e98 e110 e112 234 845 1830 2310 1780 618	2 206 119 3 257 128 4 438 145	e97 e110 e109 e112 233 729 8 e93 e110 e108 e109 216 701 6 e95 e105 e102 e106 225 761	4170     2270     1490     695       3420     1990     1440     659       3420     1720     1360     638											
12     390     122     e110     e94     e105     e134     232     1620     2640     1830     981     45       13     351     136     e110     e96     e110     e125     239     1980     2670     1930     959     42       14     263     141     e108     e95     e110     e120     232     2290     2540     1740     872     41       15     253     148     e105     e92     e112     e128     234     2490     2510     1650     809     40       16     249     113     e97     e94     e115     e130     238     2920     2500     1720     744     48       17     240     107     e92     e98     e115     e136     272     3110     2470     1860     736     45       18     229     134     e92     e110     e112     e145     300     3540     2490     1810     701     43       18     229     134     e92     e110     e112     e145     300     3540     2490     1810     701     43       19     235     166     e93     e115     e112     e155 <td>7 507 111 8 467 119 9 423 135</td> <td>e108 e96 e95 e112 296 1510 e110 e100 e91 e112 288 1550 e110 e102 e93 e118 280 1350</td> <td>2890     1690     1330     521       3140     1690     1120     484       2750     1830     1040     463</td>	7 507 111 8 467 119 9 423 135	e108 e96 e95 e112 296 1510 e110 e100 e91 e112 288 1550 e110 e102 e93 e118 280 1350	2890     1690     1330     521       3140     1690     1120     484       2750     1830     1040     463											
17     240     107     e92     e98     e115     e136     272     3110     2470     1860     736     45       18     229     134     e92     e110     e112     e145     300     3540     2490     1810     701     43       19     235     166     e93     e115     e112     e155     373     3340     2690     1920     659     52       20     244     146     e95     e110     e104     e172     473     2620     2610     1950     626     48       21     233     133     e100     e105     e96     205     606     3020     2890     1900     601     130       22     209     158     e104     e106     e98     235     739     2840     2860     1730     583     196       23     233     149     e106     e107     e95     252     787     2620     2610     1690     581     162       24     230     109     e100     e109     e96     247     717     2530     2390     1770     578     140       25     231     110     e108     e110     e96     219 <td>12 390 122 13 351 136 14 263 141</td> <td>2     e110     e94     e105     e134     232     1620       5     e110     e96     e110     e125     239     1980       6     e108     e95     e110     e120     232     2290</td> <td>2640 1830 981 456 2670 1930 959 428 2540 1740 872 412</td>	12 390 122 13 351 136 14 263 141	2     e110     e94     e105     e134     232     1620       5     e110     e96     e110     e125     239     1980       6     e108     e95     e110     e120     232     2290	2640 1830 981 456 2670 1930 959 428 2540 1740 872 412											
22     209     158     e104     e106     e98     235     739     2840     2860     1730     583     196       23     233     149     e106     e107     e95     252     787     2620     2610     1690     581     162       24     230     109     e100     e109     e96     247     717     2530     2390     1770     578     140       25     231     110     e108     e110     e96     219     617     2510     2190     1370     564     130       26     226     e109     e112     e112     e98     213     588     2110     2400     1280     617     115       27     225     e103     e115     e108     e99     231     617     1980     2410     1460     582     103       28     214     e98     e115     e103     e101     237     790     1770     2290     1470     647     96       29     198     e98     e112     e109      252     771     1700     2290     1680     601     92       30     e170     e98     e110     e112      234<	17     240     107       18     229     134       19     235     166	92 e98 e115 e136 272 3110 4 e92 e110 e112 e145 300 3540 6 e93 e115 e112 e155 373 3340	2470     1860     736     455       2490     1810     701     437       2690     1920     659     521											
27     225     e103     e115     e108     e99     231     617     1980     2410     1460     582     103       28     214     e98     e115     e103     e101     237     790     1770     2290     1470     647     96       29     198     e98     e112     e109      252     771     1700     2290     1680     601     92       30     e170     e98     e110     e112      234     845     1830     2310     1780     618     87	22 209 158 23 233 149 24 230 109	8 e104 e106 e98 235 739 2840 9 e106 e107 e95 252 787 2620 9 e100 e109 e96 247 717 2530	2860     1730     583     1960       2610     1690     581     1620       2390     1770     578     1400											
	27 225 e103 28 214 e98 29 198 e98 30 e170 e98	8 e115 e108 e99 231 617 1980 8 e115 e103 e101 237 790 1770 8 e112 e109 252 771 1700 8 e110 e112 234 845 1830	2410     1460     582     1030       2290     1470     647     964       2290     1680     601     921       2310     1780     618     874											
MEAN 288 127 104 104 103 163 415 1981 2773 1788 905 76 MAX 507 166 115 115 115 252 845 3540 4170 2370 1610 196 MIN 150 98 92 92 91 106 206 701 2190 1280 564 40	MEAN         288         127           MAX         507         166           MIN         150         98           AC-FT         17720         7530	7 104 104 103 163 415 1981 5 115 115 115 252 845 3540 8 92 92 91 106 206 701 0 6400 6380 5700 10030 24720 121800 1	2773     1788     905     764       4170     2370     1610     1960       2190     1280     564     407											
MEAN 265 149 108 99.5 104 130 364 1407 1927 1030 528 33 MAX 542 482 228 178 175 251 677 2384 3259 2248 1405 84 (WY) 1986 1986 1987 1986 1986 1972 1987 1987 1979 1957 1957 MIN 109 76.6 51.8 55.6 65.9 87.6 169 502 549 201 159 10	MEAN 265 149 MAX 542 482 (WY) 1986 1986 MIN 109 76.6	9 108 99.5 104 130 364 1407 2 228 178 175 251 677 2384 5 1987 1986 1986 1972 1987 1987 5 51.8 55.6 65.9 87.6 169 502	3259     2248     1405     841       1979     1957     1957     1970       549     201     159     107											
SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1951 - 199	SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR	WATER YEARS 1951 - 1997											
LOWEST ANNUAL MEAN HIGHEST DAILY MEAN 2200 May 17 4170 Jun 2 4970 Jun 9 198 LOWEST DAILY MEAN 46 Dec 9 195 ANNUAL SEVEN-DAY MINIMUM 93 Jan 21 4550 Jun 2 45190 Jun 9 198	ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMU INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAG ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS	392 796  2200 May 17 4170 Jun 2  e 88 Jan 24 e 91 Feb 8  MUM 93 Jan 21 95 Jan 11  W 4550 Jun 2  AGE 5.46 Jun 2  284500 576400 1160 2400	906 1987 219 1977 4970 Jun 9 1985 46 Dec 9 1956 49 Dec 9 1956 5190 Jun 9 1985 6.10 Jun 9 1985 393600 1650											

e-Estimated.

a-From rating curve extended above 4,200 ft³/s.b-From floodmarks.

## 08220000 RIO GRANDE NEAR DEL NORTE, CO

 $LOCATION. --Lat~37^{o}41'22'', long~106^{o}27'38'', in~NW^{1}/4~sec. 29, T.40~N.,~R.5~E.,~Rio~Grande~County,~Hydrologic~Unit~13010001, on~right~bank~20~ft~downstream~from~county~highway~bridge,~5.0~mi~upstream~from~Pinos~Creek,~and~6.0~mi~west~of~Del~Norte.$ 

DRAINAGE AREA.--1,320 mi², approximately.

PERIOD OF RECORD.--June 1889 to current year. Monthly discharge only for some periods, published in WSP 1312. Water-quality data available April 1993 to July 1996.

REVISED RECORDS.--WSP 763: Drainage area. WSP 1312: 1889, 1901, 1913-14.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,980.25 ft above sea level. Prior to May 16, 1908, nonrecording gage at site 4 mi downstream at different datum. May 16, 1908 to Nov. 8, 1910, nonrecording gages on bridge at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Small diversions upstream from station for irrigation. Flow regulated by Beaver Creek Reservoir since 1910, Santa Maria Reservoir since 1912, Rio Grande Reservoir since 1912, and Continental Reservoir since 1925, combined capacity, 126,100 acre-ft, and by several smaller reservoirs. Transmountain diversions to drainage area upstream from station from Colorado River basin (see elsewhere in this report).

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey. EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1873, that of Oct. 5, 1911, from information by local residents.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

			Disc	m moz, n c	CDICTELITE		Y MEAN VA		JEIC 1770 TC	) DEI TEMBEN	. 1,,,,	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	245	265	e170	e180	e190	e170	540	1380	5800	3060	2070	885
2 3	242 283	212 224	e180 e170	e170 e180	e200 e180	e170 e180	497 455	1270 1210	7090 6160	2950 2650	1870 1780	843 834
4	554	253	e180	e170	e160	e170	458	1350	5990	2210	1730	790
5	555	254	e180	e160	e170	e170	422	1680	6070	2370	1850	788
6	549	250	e200	e150	e180	e190	404	2200	5590	2460	1750	736
7	596	213	e200	e150	e150	e200	494	2580	4940	2170	1870	689
8	581	e182	e200	e160	e160	e230	491	2660	5300	2050	1510	617
9 10	536 520	233 239	e200 e240	e160 e160	e160 e170	e240 e250	480 449	2390 2220	4450 4370	2210 2200	1360 1370	588 633
11	518	220	e240	e170	e160	e280	434	2110	4250	2120	1460	614
12	512	219	e220	e160	e160	e300	398	2550	4270	2210	1300	596
13	475	246	e210	e150	e170	e310	399	3200	4300	2280	1250	559
14	369	260	e210	e170	e150	309	380	3740	4080	2100	1140	545
15	308	266	e200	e160	e160	313	377	4120	4000	1960	1030	515
16 17	304 296	252 e182	e200 e170	e140 e140	e160 e170	353 357	394 475	4780 4980	4110 3890	1930 2170	934 907	596 575
18	275	e205	e170	e150	e170	347	587	5560	3840	2050	862	534
19	273	275	e170	e160	e170	374	708	5610	4170	2220	833	580
20	302	281	e170	e160	e170	433	893	4460	4040	2270	766	581
21	297	275	e190	e170	e160	512	1210	5170	4300	2310	740	1650
22 23	256 274	292 294	e200 e180	e160 e160	e160 e170	573 620	1390 1450	4870 4560	4280 3910	2130 2000	730 728	3180 2740
23	274	246	e160	e170	e170 e170	632	1310	4310	3660	2200	749	2740
25	290	210	e170	e170	e160	537	1110	4250	3230	1710	717	2010
26	298	211	e160	e180	e170	486	1000	3540	3370	1580	797	1760
27	331	e185	e190	e180	e160	526	996	3300	3330	1840	754	1560
28	363	e178	e180	e170	e180	517	1320	3050	3120	1860	753	1430
29 30	362 359	e165 e175	e170 e180	e180 e180		549 502	1320 1460	3010 3240	3070 3050	2060 2200	724 711	1340 1240
31	348		e180	e190		514		4360		2440	775	
TOTAL	11750	6962	5840	5110	4690	11314	22301	103710	132030	67970	35820	32218
MEAN	379	232	188	165	168	365	743	3345	4401	2193	1155	1074
MAX	596	294	240	190	200	632	1460	5610	7090	3060	2070	3180
MIN AC-FT	242 23310	165 13810	160 11580	140 10140	150 9300	170 22440	377 44230	1210 205700	3050 261900	1580 134800	711 71050	515 63900
					YEARS 1890					131000	71050	03700
MEAN	480	MONTHET MEA 284	206	189	197	272	, bi WAIEF 769	2512	3171	1442	792	512
MAX	2451	804	420	340	300	646	1999	4449	6240	3451	1745	2001
(WY)	1912	1917	1926	1912	1928	1910	1895	1922	1921	1957	1957	1927
MIN	134	114	105	89.8	111	153	317	747	475	239	190	135
(WY)	1957	1957	1957	1977	1977	1965	1951	1977	1934	1934	1956	1956
	STATIS'	TICS	FOR		ENDAR YEAR	F		VATER YEAR		WATER YE	ARS 1890	- 1997
ANNUAL ANNUAL				200510 548			439715 1205			907		
	MEAN C ANNUAL	MEAN		340			1205			1482		1987
	ANNUAL I									311		1977
HIGHEST	C DAILY I	MEAN		3380	May 17		7090	Jun 2		14000	Oct	6 1911
	DAILY M			e ₁₄₀	Jan 27		e,a ₁₄₀	Jan 16		69		21 1902
		AY MINIMUM		159	Jan 1		153	Jan 12		b ₁₈₀₀₀		29 1976
		PEAK FLOW PEAK STAGE					7440 5.3	Jun 2 33 Jun 2		18000		5 1911 5 1911
	RUNOFF			397700			872200			657400	000	
10 PERG	CENT EXC	EEDS		1470			3690			2470		
	CENT EXC			255			514			365		
90 PERC	CENT EXC	FFDS		170			170			165		

e-Estimated. a-Also occurred Jan 17.

b-From rating curve extended above 12900 ft3/s.

## RIO GRANDE BASIN CLOSED BASIN IN SAN LUIS VALLEY, CO

## 08227000 SAGUACHE CREEK NEAR SAGUACHE, CO

 $LOCATION.--Lat~38^{o}09'48", long~106^{o}17'24", in~SE^{1/4}SE^{1/4}~sec. 10, T.45~N., R.6~E., Saguache~County, Hydrologic~Unit~13010004, on left bank~0.2~mi~downstream~from~Middle~Creek~and~10~mi~northwest~of~Saguache.$ 

DRAINAGE AREA.--595 mi².

PERIOD OF RECORD.--August 1910 to September 1912, June 1914 to current year. Monthly discharge only for some periods, published in WSP 1312. Water-quality data available, April 1993 to September 1995.

REVISED RECORDS.--WSP 1242: 1948-49. WSP 1312: 1912, 1934(M), 1942(M). WSP 1923: 1951.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is about 8,030 ft above sea level, from topographic map. Prior to Apr. 9, 1934, at sites 0.8 mi downstream at different datums. Apr. 10, 1934 to Nov. 20, 1966, at present site at datum 1.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions from Colorado River basin to drainage area above station through Tarbell ditch (see elsewhere in this report), and diversions above station for irrigation.

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

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	27	34	e30	e30	e25	e24	44	51	195	90	96	84	
2	29	28	e28	e30	e25	e24	46	49	244	84	78	80	
3	28	33	e27	e31	e25	e25	41	44	250	77	75	65	
4	43	42	e29	e28	e24	e28	46	44	228	74	86	61	
5	42	37	e30	e27	e24	e30	42	58	228	67	109	76	
6	36	36	e32	e23	e27	e28	28	68	234	65	112	70	
7	33	19	e31	e22	e19	e29	30	75	247	68	135	76	
8	31	20	e30	e24	e19	e29	38	76	280	67	124	63	
9	30	31	e33	e25	e19	30	37	72	271	67	98	55	
10	28	33	e35	e27	e21	31	36	75	233	67	103	55	
11	30	28	e35	e24	e23	33	35	75	198	66	134	70	
12	29	25	e34	e22	e22	35	26	86	176	70	111	81	
13	29	30	e33	e24	e26	37	29	96	170	66	98	70	
14	28	35	e30	e23	e23	39	35	103	171	66	92	67	
15	28	37	e25	e17	e27	44	35	118	158	61	83	62	
16	29	24	e28	e16	e25	49	32	130	161	58	75	66	
17	30	14	e23	e16	e27	53	36	138	156	59	79	64	
18	27	27	e22	e21	e28	56	43	156	144	60	80	56	
19	28	40	e26	e23	e27	59	48	166	162	67	74	52	
20	30	35	e28	e22	e26	67	51	163	159	81	73	54	
21 22 23 24 25	29 17 21 33 32	32 35 36 23 21	e32 e34 e32 e29 e28	e22 e21 e22 e22 e21	e23 e21 e25 e25 e25	81 82 80 70 52	58 64 60 57 48	162 233 225 180 168	143 135 126 123 119	78 72 70 73 62	69 63 65 63	103 143 118 95 87	
26 27 28 29 30 31	31 33 38 37 32 33	21 e18 e11 e20 e24	e30 e29 e29 e28 e30 e32	e24 e25 e22 e24 e23 e25	e24 e23 e27 	38 41 37 36 32 36	44 41 42 48 52	162 146 135 129 133 160	115 112 110 104 96	58 84 106 92 99 105	65 103 65 61 61 69	84 86 84 79 77	
TOTAL	951	849	922	726	675	1335	1272	3676	5248	2279	2659	2283	
MEAN	30.7	28.3	29.7	23.4	24.1	43.1	42.4	119	175	73.5	85.8	76.1	
MAX	43	42	35	31	28	82	64	233	280	106	135	143	
MIN	17	11	22	16	19	24	26	44	96	58	60	52	
AC-FT	1890	1680	1830	1440	1340	2650	2520	7290	10410	4520	5270	4530	
MEAN	44.1	35.6	25.9	23.3	26.5	38.5	88.8	157	176	94.2	73.0	51.2	
MAX	108	60.1	40.0	40.3	41.4	70.0	257	437	474	299	198	194	
(WY)	1912	1930	1928	1986	1986	1924	1924	1924	1957	1957	1929	1929	
MIN	20.6	16.4	13.9	12.2	13.4	21.5	34.2	34.8	19.4	20.5	23.3	15.0	
(WY)	1979	1978	1978	1978	1966	1964	1978	1981	1963	1940	1940	1956	
ANNUAL ANNUAL HIGHEST LOWEST	MEAN 'ANNUAL M ANNUAL ME	EAN AN	FOR 1	15056 41.1 b		F	OR 1997 WAT 22875 62.7 280			67.7 122 28.0		1924 1940	
LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				29860 73 32 24	May 13 Nov 28 Aug 12		280 e11 20 293 3.00 45370 135 42 23	Jun 8 Nov 28 Jan 15 Jun 7 Jun 7		7.0 8.3 790 3.85 49070 148 41 21	Jan Jan Aug	7 1957 7 1977 6 1977 3 1964 3 1964	

e-Estimated.

e-ESCIMATEG. a-Water years 1983-1990 were published by Colorado Division of Water Resources. b-Also occurred May 17. c-Present datum, from rating curve extended above 83 ft³/s. d-Maximum gage height, 3.94 ft, May 20, 1970.

## 08235250 ALAMOSA RIVER ABOVE WIGHTMAN FORK NEAR JASPER, CO

LOCATION.--Lat 37°24′09", long 106°31′17", in SE¹/4SW¹/4 sec.35, T.37 N., R.4 E., Rio Grande County, Hydrologic Unit 13010002, Rio Grande National Forest, on left bank 150 ft upstream from Wightman Fork, 1.9 mi downstream from Bitter Creek, 4.1 mi west of Jasper, and 4.2 mi southeast of Summitville.

DRAINAGE AREA.--37.8 mi².

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD .-- July 1995 to current year (seasonal records only).

GAGE.--Water-stage recorder with satellite telemetry, and crest-stage gage. Elevation of gage is 9,380 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, and discharges above 500 ft³/s, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge during period of seasonal operation, 878 ft³/s, June 2, 1997, gage height, 5.32 ft, from rating curve extended above 457 ft³/s; minimum daily, 6.7 ft³/s, Aug. 19-20, 1996.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 878 ft³/s, June 2, gage height, 5.32 ft, from rating curve extended above 457 ft³/s; minimum daily, 8.8 ft³/s (estimated), Oct. 2.

DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	8.9						3.0	57	510	190	e60	49	
2	e8.8						27	50	e550	168	e63	54	
3							25	52	e520	157	e60	60	
4							e23	71	e514	147	e70	57	
5							e21	106	e491	135	e105	56	
6							e18	145	e416	127	81	54	
7							e17	149	e406	117	87	47	
8							e15	151	e400	104	70	42	
9							e18	155	e311	99	60	52	
10							17	141	e333	98	99	50	
11							16	142	e393	99	81	44	
12							15	159	e383	96	67	47	
13							15	195	e350	93	61	41	
14							15	237	e342	85	59	41	
15							15	253	e339	81	53	38	
16							17	259	e350	72	48	50	
17							21	264	e311	66	44	37	
18						e12	31	288	e369	65	54	34	
19						13	49	287	e410	67	49	33	
20						18	71	270	e385	68	42	35	
21						25	82	284	e360	85	41	170	
22						e28	87	261	e349	70	50	156	
23						e30	81	258	e333	65	46	117	
24						e32	65	248	e312	61	47	92	
25						35	55	216	275	57	47	75	
26						32	47	201	248	57	99	65	
27						30	46	198	229	63	57	57	
28						31	57	211	226	67	49	51	
29						31	55	231	221	e60	44	46	
30						30	56	276	214	67	49	41	
31						31		341		78	52		
TOTAL							1107	6156	10850	2864	1894	1791	
MEAN							36.9	199	362	92.4	61.1	59.7	
MAX							87	341	550	190	105	170	
MIN							15	50	214	57	41	33	
AC-FT							2200	12210	21520	5680	3760	3550	

e-Estimated.

## 08235250 ALAMOSA RIVER ABOVE WIGHTMAN FORK NEAR JASPER, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1995 to current year (seasonal record only).

#### PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: July 1995 to current year (seasonal record only).

pH: July 1995 to current year (seasonal record only).

WATER TEMPERATURE: July 1995 to current year (seasonal record only).

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Daily records for specific conductance are fair except for Sept. 4-16, which are poor. Daily records for pH and water temperature are fair. Daily data that are not published during period of seasonal operation (Oct. 1-2 and Mar. 18 to Sept. 30) are either missing or of unacceptable quality.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum during period of seasonal operation, 757 microsiemens, July 8, 1996; minimum during period of seasonal operation, 40 microsiemens, June 4, 1997.

pH: Maximum during period of seasonal operation, 7.3 units, May 18-20, 1996 and Sept. 22-23, 1997; minimum during period of

seasonal operation, 3.0 units, Aug. 23-24, 1996.
WATER TEMPERATURE: Maximum during period of seasonal operation, 19.5°C, Aug. 11, 1996; minimum during period of seasonal operation, 0.0°C, many days.

## EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum during period of seasonal operation, 500 microsiemens, Mar. 18; minimum during period of seasonal operation, 40 microsiemens, June 4.

pH: Maximum during period of seasonal operation, 7.3 units, Sept. 22-23; minimum during period of seasonal operation, 3.4 units, Mar. 19 and Apr. 15-16.

WATER TEMPERATURE: Maximum during period of seasonal operation, 16.3°C, Aug. 26; minimum during period of seasonal operation, 0.0°C, many days.

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	VEMBER		DE	CEMBER			JANUARY	
1	242	236	239									
2	244	240	242									
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
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20												
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24												
25												
26												
27												
28												
29												
30												
31												
MONTH												

429

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

08235250 ALAMOSA RIVER ABOVE WIGHTMAN FORK NEAR JASPER, CO--Continued

				, ,			**					
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1							265	246	255	180	175	177
2							260	247	255	197	172	184
3							271	254	262	202	181	193
4							259	249	254	190	149	177
5							274	235	264	153	126	143
6							315	228	264	129	112	122
7 8							327 351	243 271	272 295	120 116	108 101	113 109
9							309	289	304	112	102	106
10							313	302	306	122	112	117
11							328	296	313	123	113	118
12							393	271	306	119	96	111
13							374	291	316	105	83	95
14 15							444 407	304 335	336 367	95 81	74 68	85 75
16 17							410 364	348 292	375 335	75 75	69 64	72 70
18				500	357	461	292	245	267	72	64	67
19				498	370	439	245	199	227	70	64	67
20				448	350	416	199	163	183	74	64	69
21				402	324	382	163	146	155	69	64	67
22				365	289	333	149	140	144	73	67	69
23 24				322 296	258	295	146 157	138	142 152	73 74	65 66	69 70
25				289	247 234	263 266	168	146 149	163	81	66 74	78
26 27				309 295	239 263	281 280	186 209	168 181	177 191	87 90	81 82	84 87
28				295	260	276	185	175	179	88	74	84
29				275	257	266	184	178	180	80	63	74
30				320	234	261	194	172	182	70	53	63
31				282	239	258				59	44	54
MONTH							444	138	247	202	44	99
		JUNE			JULY			AUGUST			SEPTEM	BER
1	55	JUNE 41	49	64	JULY 52	59		AUGUST		131	SEPTEM	BER 123
2	50	41 42	46	71	52 58	64				138	112 82	123 128
2 3	50 52	41 42 42	46 47	71 70	52 58 59	64 64				138 174	112 82 89	123 128 119
2 3 4	50 52 51	41 42 42 40	46 47 46	71 70 72	52 58 59 60	64 64 66				138 174 217	112 82 89 118	123 128 119 132
2 3 4 5	50 52 51 50	41 42 42 40 42	46 47 46 46	71 70 72 73	52 58 59 60 63	64 64 66 68	  96	   85	  89	138 174 217 136	112 82 89 118 119	123 128 119 132 129
2 3 4 5	50 52 51 50	41 42 42 40 42	46 47 46 46	71 70 72 73	52 58 59 60 63	64 64 66 68	  96	   85	  89	138 174 217 136	112 82 89 118 119	123 128 119 132 129
2 3 4 5 6 7	50 52 51 50 52 55	41 42 42 40 42 45 47	46 47 46 46 50	71 70 72 73 76 76	52 58 59 60 63 63	64 64 66 68 70 71	  96 406 123	   85 95 97	  89 120 109	138 174 217 136 134 142	112 82 89 118 119	123 128 119 132 129 129
2 3 4 5	50 52 51 50	41 42 42 40 42	46 47 46 46	71 70 72 73	52 58 59 60 63	64 64 66 68	  96	   85	  89	138 174 217 136	112 82 89 118 119	123 128 119 132 129 129 137 143
2 3 4 5 6 7 8	50 52 51 50 52 55 58	41 42 42 40 42 45 47 48	46 47 46 46 50 52 54	71 70 72 73 76 76 80	52 58 59 60 63 64 73	64 64 66 68 70 71 76	 96 406 123 111	  85 95 97 98	 89 120 109 107	138 174 217 136 134 142 147	112 82 89 118 119 118 132 139	123 128 119 132 129 129
2 3 4 5 6 7 8 9	50 52 51 50 52 55 58 64	41 42 42 40 42 45 47 48 58	46 47 46 46 50 52 54 62 60	71 70 72 73 76 76 80 82 84	52 58 59 60 63 64 73 74 69	64 64 66 68 70 71 76 78	 96 406 123 111 117 115	  85 95 97 98 105 72	 89 120 109 107 113 99	138 174 217 136 134 142 147 147	112 82 89 118 119 118 132 139 109	123 128 119 132 129 129 137 143 133
2 3 4 5 6 7 8 9 10	50 52 51 50 52 55 58 64 66 59 60	41 42 42 40 42 45 47 48 58 48 44	46 47 46 46 50 52 54 62 60 52	71 70 72 73 76 76 80 82 84 81	52 58 59 60 63 63 64 73 74 69	64 64 66 68 70 71 76 78 78	 96 406 123 111 117 115	  85 95 97 98 105 72	 89 120 109 107 113 99	138 174 217 136 134 142 147 147 134	112 82 89 118 119 118 132 139 117	123 128 119 132 129 129 137 143 133 130
2 3 4 5 6 7 8 9 10 11 12 13	50 52 51 50 52 55 58 64 66 59 60 58	41 42 42 40 42 45 47 48 58 48	46 47 46 46 50 52 54 62 60 52 51	71 70 72 73 76 76 80 82 84 81 83	52 58 59 60 63 64 73 74 69 69 67	64 64 66 68 70 71 76 78 78 75	96 406 123 111 117 115 105 111	  85 95 97 98 105 72 86 104 106	 89 120 109 107 113 99 100 108	138 174 217 136 134 142 147 147 134 154 142 146	112 82 89 118 119 118 132 139 109 117 133 126 137	123 128 119 132 129 129 137 143 133 130
2 3 4 5 6 7 8 9 10 11 12 13 14	50 52 51 50 52 55 58 64 66 59 60 58 60	41 42 42 40 42 45 47 48 58 48 44 47 49 48	46 47 46 50 52 54 62 60 52 51 55	71 70 72 73 76 76 80 82 84 81 83 84	52 58 59 60 63 64 73 74 69 69 67 67	64 64 66 68 70 71 76 78 78 75 75	96 406 123 111 117 115 105 111 120 120	  85 95 97 98 105 72 86 104 106	 89 120 109 107 113 99 100 108 112 114	138 174 217 136 134 142 147 147 134 154 142 146 148	112 82 89 118 119 118 132 139 109 117 133 126 137 137	123 128 119 132 129 129 137 143 133 130
2 3 4 5 6 7 8 9 10 11 12 13	50 52 51 50 52 558 64 66 59 60 58 60 58	41 42 42 40 42 45 47 48 58 48 44 47 49 48	46 47 46 46 50 52 54 62 60 52 51 54 55	71 70 72 73 76 76 80 82 84 81 83 84 85 94	52 58 59 60 63 64 73 74 69 67 68 69	64 64 66 68 70 71 76 78 75 75 77 80	96 406 123 111 117 115 105 111	  85 95 97 98 105 72 86 104 106	 89 120 109 107 113 99 100 108	138 174 217 136 134 142 147 147 134 154 142 146 148 184	112 82 89 118 119 118 132 139 109 117 133 126 137 132 146	123 128 119 132 129 129 137 143 133 130
2 3 4 5 6 7 8 9 10 11 12 13 14 15	50 52 51 50 52 55 58 64 66 59 60 58 60 58	41 42 42 40 42 45 47 48 58 48 44 47 49 48	46 47 46 46 50 52 54 62 60 52 51 54 55 54	71 70 72 73 76 76 80 82 84 81 83 84 85 94	52 58 59 60 63 64 73 74 69 69 67 68 69	64 64 66 68 70 71 76 78 75 76 75 77 80	 96 406 123 111 117 115 105 111 120 120 124	  85 95 97 98 105 72 86 104 106 111	 89 120 109 107 113 99 100 108 112 114 119	138 174 217 136 134 142 147 147 134 154 142 146 148 184	112 82 89 118 119 118 132 139 109 117 133 126 137 132 146	123 128 119 132 129 129 137 143 133 130 139 134 141 150
2 3 4 5 6 7 8 9 10 11 12 13 14 15	50 52 51 50 52 55 58 64 66 59 60 58 62 66	41 42 42 40 42 45 47 48 58 48 44 47 49 49	46 47 46 46 50 52 54 62 60 52 51 54 55 54	71 70 72 73 76 76 80 82 84 81 83 84 90 97	52 58 59 60 63 63 64 73 74 69 67 67 68 69 76	64 64 66 68 70 71 76 78 78 75 76 75 77 80	  96 406 123 111 117 115 105 111 120 120 124	  85 95 97 98 105 72 86 104 106 106 111	 89 120 109 107 113 99 100 108 112 114 119	138 174 217 136 134 142 147 147 134 154 142 146 148 184	112 82 89 118 119 118 132 139 109 117 133 126 137 132 146	123 128 119 132 129 129 137 143 133 130 139 134 141 150
2 3 4 5 6 7 8 9 10 11 12 13 14 15	50 52 51 50 52 55 58 64 66 59 60 58 62 66 63	41 42 42 40 42 45 47 48 58 48 44 47 49 48	46 47 46 46 50 52 54 60 52 51 54 55 54 55 54	71 70 72 73 76 76 80 82 84 81 83 84 85 94	52 58 59 60 63 64 73 74 69 69 67 68 69	64 64 66 68 70 71 76 78 75 76 75 77 80	 96 406 123 111 117 115 105 111 120 120 124 132 140 303	  85 95 97 98 105 72 86 104 106 106 111	 89 120 109 107 113 99 100 108 112 114 119 126 132 132	138 174 217 136 134 142 147 147 134 154 148 184 184	112 82 89 118 119 118 132 139 109 117 133 126 137 132 146	123 128 119 132 129 137 143 133 130 139 134 141 150
2 3 4 5 6 7 8 9 10 11 12 13 14 15	50 52 51 50 52 55 58 64 66 59 60 58 62 66	41 42 42 40 42 45 47 48 58 48 44 47 49 48 49	46 47 46 46 50 52 54 62 60 52 51 54 55 54	71 70 72 73 76 76 80 82 84 81 83 84 85 94	52 58 59 60 63 63 64 73 74 69 67 67 68 69	64 64 66 68 70 71 76 78 75 77 80 82 87	  96 406 123 111 117 115 105 111 120 120 124	  85 95 97 98 105 72 86 104 106 106 111	 89 120 109 107 113 99 100 108 112 114 119	138 174 217 136 134 142 147 147 134 154 142 146 148 184	112 82 89 118 119 118 132 139 109 117 133 126 137 132 146	123 128 119 132 129 129 137 143 133 130 139 134 141 150
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	50 52 51 50 52 55 58 66 58 60 58 60 63 58 59	41 42 42 40 42 45 47 48 58 48 44 47 49 48 49 49 49 48	46 47 46 46 50 52 54 60 52 51 54 55 54 55 54	71 70 72 73 76 76 80 82 84 81 83 84 85 94	52 58 59 60 63 64 73 74 69 67 68 69 76 77	64 64 66 68 70 71 76 78 78 75 77 80 82 87	 96 406 123 111 117 115 105 111 120 120 124 132 140 303 135 146	  85 95 97 98 105 72 86 104 106 106 111 120 124 97 110	 89 120 109 107 113 99 100 108 112 114 119 126 132 132 126 138	138 174 217 136 134 142 147 134 154 148 184 184 184 185 157 185	112 82 89 118 119 118 132 139 109 117 133 126 137 132 146 109 138 148 147	123 128 119 132 129 137 143 133 130 139 134 141 150 128 142 149 152
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	50 52 51 50 52 55 58 64 66 59 60 58 62 663 58	41 42 42 40 42 45 47 48 58 48 44 47 49 48 49 49 57 47 49	46 47 46 46 50 52 54 62 60 52 51 54 55 54 55 54 55 57	71 70 72 73 76 76 80 82 84 81 83 84 85 94	52 58 59 60 63 63 64 73 74 69 67 67 68 69	64 64 66 66 70 71 76 78 75 77 80 82 87	 96 406 123 111 117 115 105 111 120 120 124 132 140 303 303	  85 95 97 98 105 72 86 104 106 106 111 120 124 97	 89 120 109 107 113 99 100 108 112 114 119 126 132 132 126	138 174 217 136 134 142 147 147 134 154 142 146 148 184 184 152 157	112 82 89 118 119 118 132 139 109 117 133 126 137 132 146	123 128 119 132 129 129 137 143 133 130 139 134 141 150
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	50 52 51 50 52 55 58 66 58 60 58 62 66 63 58 61 63 64	41 42 42 40 42 45 47 48 58 48 44 47 49 48 49 57 47 49 48 57 57 47 49 48 57 57 57 57 57 57 57 57 57 57 57 57 57	46 47 46 50 52 54 62 60 52 51 54 55 54 55 54 55 54 55 57 53 57 57 58	71 70 72 73 76 76 80 82 84 81 83 84 85 94	52 58 59 60 63 63 64 73 74 69 67 67 68 69 76 77 	64 64 66 68 70 71 76 78 78 75 77 80 82 87 	  96 406 123 111 117 115 105 111 120 120 124 132 140 303 135 146	  85 95 97 98 105 72 86 104 106 106 111 120 124 97 110 132	 89 120 109 107 113 99 100 108 112 114 119 126 132 132 126 138	138 174 217 136 134 142 147 134 154 148 184 184 184 185 2157 185	112 82 89 118 119 118 132 139 109 117 133 126 137 132 146 109 138 148 147 147	123 128 119 132 129 137 143 133 130 139 134 141 150 128 142 149 152 154
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	50 52 51 50 52 55 58 66 58 60 58 60 63 58 59 61 63 64 66	41 42 42 40 42 45 47 48 58 48 44 47 49 48 49 57 47 49 48 57 47 49 48 57 47 48 57 47 48 49 49 49 49 49 49 49 49 49 49 49 49 49	46 47 46 46 50 52 54 60 52 51 54 55 54 55 57 53 57	71 70 72 73 76 80 82 84 81 83 84 85 94	52 58 59 60 63 63 64 73 74 69 67 68 69 76 77 	64 64 66 66 68 70 71 76 78 75 77 80 82 87 	  96 406 123 111 117 115 105 111 120 120 124 132 140 303 135 146 151 132 300 197	  85 95 97 98 105 72 86 104 106 106 111 120 124 197 110 132 124 110 118	 89 120 109 107 113 99 100 108 112 114 119 126 132 132 126 138 140 122 135 135	138 174 217 136 134 142 147 147 134 154 148 184 184 188 152 157 185 214 95 92	112 82 89 118 119 118 132 139 109 117 133 126 137 132 146 109 138 147 147	123 128 119 132 129 129 137 143 133 130 139 134 144 150 128 142 149 152 154
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	50 52 51 50 52 55 58 66 58 60 58 62 66 63 58 61 63 64	41 42 42 40 42 45 47 48 58 48 44 47 49 48 49 57 47 49 48 57 57 47 49 48 57 57 57 57 57 57 57 57 57 57 57 57 57	46 47 46 46 50 52 54 62 60 52 51 54 55 54 55 54 55 54 55 57 53 57 57 58	71 70 72 73 76 76 80 82 84 81 83 84 85 94	52 58 59 60 63 63 64 73 74 69 67 67 68 69 76 77 	64 64 66 68 70 71 76 78 78 75 77 80 82 87 	  96 406 123 111 117 115 105 111 120 120 124 132 140 303 135 146	  85 95 97 98 105 72 86 104 106 106 111 120 124 97 110 132	 89 120 109 107 113 99 100 108 112 114 119 126 132 132 126 138	138 174 217 136 134 142 147 134 154 148 184 184 184 185 2157 185	112 82 89 118 119 118 132 139 109 117 133 126 137 132 146 109 138 148 147 147	123 128 119 132 129 137 143 133 130 139 134 141 150 128 142 149 152 154
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	50 52 51 50 52 55 58 64 66 58 60 63 58 66 63 58 66 66 66 66 66 66 66 66 66 66 66 66 66	41 42 42 40 42 45 47 48 58 48 44 47 49 48 49 57 47 49 48 51 52 53 48 50 50 50 50 50 50 50 50 50 50 50 50 50	46 47 46 46 50 52 54 62 51 54 55 54 55 57 53 57 58 57 57	71 70 72 73 76 76 80 82 84 81 83 84 85 94	52 58 59 60 63 63 64 73 74 69 67 68 69 76 77 	64 64 66 68 70 71 76 78 75 77 80 82 87 	  96 406 123 111 117 115 105 111 120 120 124 132 140 303 135 146 151 132 300 197 180	  85 95 97 98 105 72 86 104 106 106 111 120 124 97 110 132 124 110 118 99 111	 89 120 109 107 113 99 100 108 112 114 119 126 132 132 126 138 140 122 135 135 132 131	138 174 217 136 134 142 147 134 154 148 184 184 188 185 214 95 92 99 104	112 82 89 118 119 118 132 139 109 117 133 126 137 132 146 109 138 148 147 147	123 128 119 132 129 137 143 133 130 139 134 141 150 128 142 149 152 154
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	50 52 51 50 52 55 58 66 58 66 58 66 63 63 64 658 60 63	41 42 42 40 42 45 47 48 58 48 44 47 49 48 49 57 47 49 48 50 50 50 50 50 50 50 50 50 50 50 50 50	46 47 46 46 50 52 54 60 52 51 54 55 57 58 57 58 57 58 57 59	71 70 72 73 76 76 80 82 84 81 83 84 94 90 97 	52 58 59 60 63 64 73 74 69 67 67 68 69 76 77 	64 64 66 68 70 71 78 78 75 76 75 77 80 82 87 	   96 406 123 111 117 115 105 111 120 124 132 140 303 135 146 151 132 300 197 180	  85 95 97 98 105 72 86 104 106 111 120 124 97 110 132 124 110 118 99 111	 89 120 109 107 113 99 100 108 112 114 119 126 132 132 126 138 140 122 135 132 131	138 174 217 136 134 142 147 147 134 154 148 148 152 157 185 214 95 92 99 104	112 82 89 118 119 118 132 109 117 133 126 137 132 146 109 138 148 147 147 73 84 87 92 99	123 128 119 132 129 129 137 143 133 130 139 134 141 150 128 142 149 152 154
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	50 51 50 51 50 55 58 66 58 66 58 66 66 58 66 66 66 66 66 66 66 66 66 66 66 66 66	41 42 42 40 42 45 47 48 58 48 44 47 49 48 49 49 57 47 49 48 51 52 53 48 50 50 50 50 50 50 50 50 50 50 50 50 50	46 47 46 46 50 52 54 62 60 52 51 54 55 54 55 57 53 57 57 57 57 58	71 70 72 73 76 76 80 82 84 81 83 84 85 94 90 97 	52 58 59 60 63 63 64 73 74 69 67 68 69 76 77 	64 64 66 68 70 71 76 78 78 75 77 80 82 82 87 	  96 406 123 111 117 115 105 111 120 120 124 132 140 303 135 146 151 132 300 197 180	  85 95 97 98 105 72 86 104 106 106 111 120 124 97 110 132 124 110 118 99 111	 89 120 109 107 113 99 100 108 112 114 119 126 132 132 132 126 138 140 122 135 131	138 174 217 136 134 142 147 147 134 154 148 184 184 184 188 152 157 185 214 95 99 104	112 82 89 118 119 118 132 139 109 117 133 126 137 132 146 109 138 148 147 147	123 128 119 132 129 137 143 133 130 139 134 141 150 128 142 149 152 154 102 87 90 95 101
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	50 52 51 50 52 55 58 66 58 66 58 66 63 63 64 658 60 63	41 42 42 40 42 45 47 48 58 48 44 47 49 48 49 57 47 49 48 50 50 50 50 50 50 50 50 50 50 50 50 50	46 47 46 46 50 52 54 60 52 51 54 55 57 58 57 58 57 58 57 59	71 70 72 73 76 76 80 82 84 81 83 84 94 90 97 	52 58 59 60 63 64 73 74 69 67 67 68 69 76 77 	64 64 66 68 70 71 78 78 75 76 75 77 80 82 87 	   96 406 123 111 117 115 105 111 120 124 132 140 303 135 146 151 132 300 197 180	  85 95 97 98 105 72 86 104 106 111 120 124 97 110 132 124 110 118 99 111	 89 120 109 107 113 99 100 108 112 114 119 126 132 132 126 138 140 122 135 132 131	138 174 217 136 134 142 147 147 134 154 148 148 152 157 185 214 95 92 99 104	112 82 89 118 119 118 132 109 117 133 126 137 132 146 109 138 148 147 147 73 84 87 92 99	123 128 119 132 129 137 143 133 130 139 134 141 150 128 142 149 152 154 102 87 90 95 101
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	50 521 50 525 58 66 58 60 58 60 63 63 63 63 63	41 42 42 40 42 45 47 48 58 48 44 47 49 48 49 57 47 49 48 51 52 53 48 50 50 50 50 50 50 50 50 50 50 50 50 50	46 47 46 46 50 52 54 60 52 51 54 55 54 55 57 53 57 57 57 59 59 57	71 70 72 73 76 76 80 82 84 81 83 84 85 94 90 97 	52 58 59 60 63 63 64 73 74 69 67 68 69 76 77 	64 64 66 68 70 71 76 78 75 77 80 82 87 	  96 406 123 111 117 115 105 111 120 120 124 132 140 303 135 146 151 132 300 197 180	  85 95 97 98 105 72 86 104 106 106 111 120 124 97 110 132 124 110 118 99 111	 89 120 109 107 113 99 100 108 112 114 119 126 132 132 126 138 140 122 135 135 131	138 174 217 136 134 142 147 134 154 148 184 184 185 2157 185 214 95 92 99 104 108 114 119 124	112 82 89 118 119 118 132 139 109 117 133 126 137 132 146 109 138 147 147 73 84 147 147	123 128 119 132 129 137 143 133 130 139 134 141 150 128 142 149 152 154 102 87 90 95 101
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	50 52 51 50 52 55 58 66 58 60 58 60 63 63 63 63 63 63	41 42 42 40 42 45 47 48 58 48 44 47 49 48 49 57 47 49 48 51 52 53 48 50 51 51 51 51 51 51 51 51 51 51 51 51 51	46 47 46 46 50 52 54 60 52 51 54 55 54 55 57 57 57 57 57 57	71 70 72 73 76 76 80 82 84 81 83 84 85 94 90 97 	52 58 59 60 63 63 64 73 74 69 67 67 68 69 76 77 	64 64 66 68 70 71 76 78 78 75 77 80 82 87 	  96 406 123 111 117 115 105 111 120 120 124 132 140 303 135 146 151 132 300 197 180 187 127 133 204 133	  85 95 97 98 105 72 86 104 106 106 111 120 124 97 110 132 124 110 118 99 111 82 110 119 126 114	 89 120 109 107 113 99 100 108 112 114 119 126 132 132 135 132 135 135 132 131 102 216 123 129 132	138 174 217 136 134 142 147 147 134 154 148 184 184 152 157 185 214 95 92 99 104 108 114 119 124 130	112 82 89 118 119 118 132 139 109 117 133 126 137 132 146 109 138 147 147 73 84 147 147	123 128 119 132 129 137 143 133 130 139 134 141 150 128 142 149 152 154 102 87 90 95 101 106 111 116 121 127
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	50 51 50 52 55 58 66 58 66 58 66 63 63 63 63 63	41 42 42 40 42 45 47 48 58 48 49 49 57 47 49 48 51 52 53 48 50 51 51 51	46 476 46 50 52 54 60 52 51 54 55 54 55 57 58 57 58 57 58 57 58 57 57 57	71 70 72 73 76 76 80 82 84 81 83 84 90 97 	52 58 59 60 63 64 73 74 69 67 68 69 76 77 	64 64 66 68 70 71 78 78 78 75 76 75 77 80 82 87 	   96 406 123 111 117 115 105 111 120 124 132 140 303 135 146 151 132 300 197 180 187 120 127 133 204	  85 95 97 98 105 72 86 104 106 106 111 120 124 110 132 124 110 118 99 111 82 110 119 126 114	 89 120 109 107 113 99 100 108 112 114 119 126 132 132 123 125 137 138 140 122 135 132 131 102 131 123 132 132 132 132 132	138 174 217 136 134 142 147 147 134 154 148 148 152 157 185 214 95 92 99 104 108 114 119 124 130	112 82 89 118 119 118 132 109 117 133 126 137 132 146 109 138 144 147 147 73 84 87 92 99 104 108 114 119	123 128 119 132 129 137 143 133 130 139 134 141 150 128 142 149 152 154 102 87 90 95 101

# 08235250 ALAMOSA RIVER ABOVE WIGHTMAN FORK NEAR JASPER, CO--Continued

pH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
2111		OCTOBER			VEMBER	112111		CEMBER		1	JANUARY	
1 2	5.2 5.2	5.1 5.1	5.2 5.2									
3												
4 5												
6												
7 8												
9												
10 11												
12												
13 14												
15												
16												
17 18												
19												
20												
21 22												
23												
24 25												
26												
27												
28 29												
30												
31												
MONTH												
		FEBRUARY			MARCH			APRIL			MAY	
1							4.1	3.9	4.0	5.1	5.0	5.0
2							4.1 4.1	3.9 4.1	4.1	5.2	5.0 4.9	5.0
2 3 4	  						4.1 4.1 4.1 4.2	3.9 4.1 4.0 4.1	4.1 4.1 4.1	5.2 5.0 5.1	5.0 4.9 4.7 4.6	5.0 4.9 4.9
2 3 4 5							4.1 4.1 4.1 4.2 4.2	3.9 4.1 4.0 4.1 4.1	4.1 4.1 4.1 4.1	5.2 5.0 5.1 5.3	5.0 4.9 4.7 4.6 4.8	5.0 4.9 4.9 5.1
2 3 4	  						4.1 4.1 4.1 4.2 4.2	3.9 4.1 4.0 4.1 4.1	4.1 4.1 4.1 4.1	5.2 5.0 5.1 5.3	5.0 4.9 4.7 4.6 4.8	5.0 4.9 4.9 5.1
2 3 4 5 6 7 8				==== ==== ====			4.1 4.1 4.2 4.2 4.2 4.3 4.4 4.2	3.9 4.1 4.0 4.1 4.1 4.1 3.9	4.1 4.1 4.1 4.1 4.2 4.3 4.0	5.2 5.0 5.1 5.3 5.7 5.9 6.2	5.0 4.9 4.7 4.6 4.8 5.0 5.5 5.8	5.0 4.9 4.9 5.1 5.3 5.8 6.0
2 3 4 5				====		  	4.1 4.1 4.1 4.2 4.2 4.2	3.9 4.1 4.0 4.1 4.1 4.1	4.1 4.1 4.1 4.1 4.2 4.3	5.2 5.0 5.1 5.3 5.7 5.9	5.0 4.9 4.7 4.6 4.8 5.0 5.5	5.0 4.9 4.9 5.1 5.3 5.8
2 3 4 5 6 7 8 9				  		==== ==== ==== ====	4.1 4.1 4.2 4.2 4.3 4.4 4.2 4.0	3.9 4.1 4.0 4.1 4.1 4.0 3.9 3.9	4.1 4.1 4.1 4.1 4.2 4.3 4.0 3.9 3.9	5.2 5.0 5.1 5.3 5.7 5.9 6.2 6.3	5.0 4.9 4.7 4.6 4.8 5.0 5.5 5.8 6.0	5.0 4.9 4.9 5.1 5.3 5.8 6.0 6.3 6.2
2 3 4 5 6 7 8 9 10				==== ==== ==== ==== ====		==== ==== ==== ==== ====	4.1 4.1 4.2 4.2 4.3 4.4 4.0 3.9	3.9 4.1 4.0 4.1 4.1 4.0 3.9 3.9 3.9 3.7	4.1 4.1 4.1 4.2 4.3 4.0 3.9 3.9 3.9	5.2 5.0 5.1 5.3 5.7 5.9 6.2 6.3 6.3	5.0 4.9 4.7 4.6 4.8 5.0 5.5 5.8 6.0 6.0	5.0 4.9 4.9 5.1 5.3 5.8 6.0 6.3 6.2 6.1 6.0
2 3 4 5 6 7 8 9 10			    				4.1 4.1 4.2 4.2 4.2 4.3 4.4 4.2 4.0 3.9	3.9 4.1 4.0 4.1 4.1 4.1 4.0 3.9 3.9 3.9 3.7 3.7	4.1 4.1 4.1 4.2 4.3 4.0 3.9 3.9 3.9 3.9	5.2 5.0 5.1 5.3 5.7 5.9 6.2 6.3 6.3 6.2 6.4	5.0 4.9 4.7 4.6 4.8 5.0 5.5 5.8 6.0 6.0 5.6	5.0 4.9 4.9 5.1 5.3 6.0 6.3 6.2 6.1 6.1
2 3 4 5 6 7 8 9 10				==== ==== ==== ==== ==== ====		==== ==== ==== ==== ====	4.1 4.1 4.2 4.2 4.3 4.4 4.0 3.9	3.9 4.1 4.0 4.1 4.1 4.0 3.9 3.9 3.9 3.7	4.1 4.1 4.1 4.2 4.3 4.0 3.9 3.9 3.9	5.2 5.0 5.1 5.3 5.7 5.9 6.2 6.3 6.3	5.0 4.9 4.7 4.6 4.8 5.0 5.5 5.8 6.0 6.0	5.0 4.9 4.9 5.1 5.3 5.8 6.0 6.3 6.2 6.1 6.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15							4.1 4.1 4.2 4.2 4.3 4.4 4.2 4.0 3.9 3.9 4.1 4.0 3.7	3.9 4.1 4.0 4.1 4.1 4.1 4.1 3.9 3.9 3.9 3.7 3.7 3.7 3.6 3.4	4.1 4.1 4.1 4.1 4.2 4.3 4.0 3.9 3.9 3.8 3.9 3.8 3.6	5.2 5.0 5.1 5.3 5.7 5.9 6.2 6.3 6.3 6.2 6.4 6.7 6.6	5.0 4.9 4.7 4.6 4.8 5.0 5.5 5.8 6.0 6.0 5.6 5.6 5.9 5.9 5.9	5.0 4.9 4.9 5.1 5.3 5.8 6.0 6.3 6.2 6.1 6.4 6.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15							4.1 4.1 4.2 4.2 4.3 4.4 4.2 4.0 3.9 3.9 4.1 4.0 3.7	3.9 4.1 4.0 4.1 4.1 4.1 4.1 3.9 3.9 3.9 3.7 3.7 3.7 3.7 3.6	4.1 4.1 4.1 4.2 4.3 4.0 3.9 3.9 3.9 3.9 3.9 3.9 3.9	5.2 5.0 5.1 5.3 5.7 5.9 6.2 6.3 6.3 6.2 6.4 6.7 6.6	5.0 4.9 4.7 4.6 4.8 5.0 5.5 5.8 6.0 6.0 5.9 5.6 5.9 5.9 6.5	5.0 4.9 4.9 5.1 5.3 6.0 6.3 6.2 6.1 6.0 6.1 6.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18				         3.8		       3.6	4.1 4.1 4.2 4.2 4.3 4.4 4.2 4.0 3.9 3.9 4.1 4.0 3.7	3.9 4.1 4.0 4.1 4.1 4.1 4.1 3.9 3.9 3.9 3.7 3.7 3.7 3.6 3.4 3.8	4.1 4.1 4.1 4.2 4.3 4.0 3.9 3.9 3.8 3.9 3.8 3.6	5.2 5.0 5.1 5.3 5.7 5.9 6.2 6.3 6.3 6.2 6.4 6.7 6.6	5.0 4.9 4.7 4.6 4.8 5.0 5.5 5.8 6.0 6.0 5.9 5.9 5.9 6.5 6.5 6.5	5.0 4.9 5.1 5.3 6.0 6.3 6.2 6.1 6.1 6.4 6.5 6.7 6.7 6.8
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20				        3.8 3.7 3.7	       3.5 3.4	       3.6 3.6 3.5	4.1 4.1 4.2 4.2 4.3 4.4 4.2 4.0 3.9 3.9 4.1 4.0 3.7	3.9 4.1 4.0 4.1 4.1 4.1 4.0 3.9 3.9 3.7 3.7 3.7 3.6 3.4 3.6 3.8 3.8 4.1	4.1 4.1 4.1 4.2 4.3 4.0 3.9 3.9 3.9 3.8 3.6 3.5 3.7 3.7 4.0 4.3	5.2 5.0 5.1 5.3 5.7 5.9 6.2 6.3 6.3 6.2 6.4 6.7 6.6 6.8 6.9	5.0 4.9 4.7 4.6 4.8 5.0 5.5 5.8 6.0 6.0 5.9 5.5 5.9 6.5 6.7 6.8 6.9	5.0 4.9 5.1 5.3 5.8 6.0 6.3 6.2 6.1 6.4 6.7 6.7 6.7 6.9 6.9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21				        3.8 3.7 3.7	        3.5 3.4 3.5	       3.6 3.6 3.5	4.1 4.1 4.2 4.2 4.2 4.3 4.4 4.2 4.0 3.9 3.9 4.1 4.0 3.7 3.6 3.8 4.0 4.2 4.5	3.9 4.1 4.0 4.1 4.1 4.1 4.0 3.9 3.9 3.9 3.7 3.7 3.6 3.4 3.4 3.6 3.8 4.1	4.1 4.1 4.1 4.2 4.3 4.0 3.9 3.9 3.8 3.9 3.8 3.6 3.5 3.7 3.7 3.9 4.0 4.3	5.2 5.0 5.1 5.3 5.7 5.9 6.2 6.3 6.3 6.2 6.4 6.7 6.6 6.7 6.8 6.9 6.9	5.0 4.9 4.7 4.6 4.8 5.0 5.5 5.8 6.0 5.9 5.5 5.9 6.5 5.9 6.7 6.9 6.9	5.0 4.9 5.1 5.3 6.0 6.3 6.2 6.1 6.4 6.5 6.7 6.7 6.9 6.9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23				       3.8 3.7 3.7 3.7 3.7	       3.5 3.4 3.5 3.6 3.7	     3.6 3.6 3.6 3.7 3.8	4.1 4.1 4.1 4.2 4.2 4.3 4.4 4.2 4.0 3.9 3.9 4.0 4.0 3.7 3.6 4.0 4.2 4.5 4.9 5.2 5.4	3.9 4.1 4.0 4.1 4.1 4.1 4.0 3.9 3.9 3.7 3.7 3.7 3.6 3.4 3.8 4.1 4.7 5.2	4.1 4.1 4.1 4.2 4.3 4.0 3.9 3.9 3.8 3.9 3.8 3.6 3.5 3.7 3.7 3.9 4.0 4.3	5.2 5.0 5.1 5.3 5.7 5.9 6.2 6.3 6.3 6.2 6.4 6.7 6.6 6.8 6.9 6.9	5.0 4.9 4.7 4.6 4.8 5.5 5.8 6.0 6.0 5.9 5.5 5.9 6.7 6.9 6.9 6.9	5.0 4.9 5.1 5.3 6.0 6.3 6.2 6.1 6.4 6.7 6.8 6.9 6.9 6.9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24				        3.8 3.7 3.7 3.7 3.7 3.9 4.1	       3.5 3.4 3.5 3.5 3.6 3.7 3.8	      3.6 3.6 3.5 3.7 3.8 4.0	4.1 4.1 4.2 4.2 4.2 4.3 4.4 4.2 4.0 3.9 3.9 4.1 4.0 3.7 3.6 3.8 4.2 4.5 4.5	3.9 4.1 4.0 4.1 4.1 4.1 4.0 3.9 3.9 3.9 3.7 3.7 3.7 3.6 3.4 4.3 6.3 8.8 4.1	4.1 4.1 4.1 4.2 4.3 4.0 3.9 3.9 3.8 3.9 3.8 3.6 3.5 3.7 3.9 4.0 4.3	5.2 5.0 5.1 5.3 5.7 6.2 6.3 6.3 6.2 6.4 6.7 6.6 6.7 6.8 6.9 6.9 6.9	5.0 4.9 4.7 4.6 4.8 5.0 5.5 6.0 5.5 5.9 6.7 6.9 6.9 6.9 6.9	5.0 4.9 5.1 5.38 6.0 6.32 6.10 6.14 6.5 6.7 6.7 6.7 6.9 6.9 6.9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25				       3.8 3.7 3.7 3.7 3.7 3.7 3.9 4.1	      3.5 3.4 3.5 3.6 3.7 3.8 3.8	     3.6 3.6 3.6 3.7 3.8 4.0	4.1 4.1 4.1 4.2 4.2 4.3 4.4 4.2 4.0 3.9 3.9 4.1 4.0 4.0 3.7 3.6 4.0 4.2 4.5 4.5 4.5 4.5	3.9 4.1 4.0 4.1 4.1 4.1 4.0 3.9 3.9 3.7 3.7 3.7 3.6 3.4 3.8 3.8 4.1 4.7 5.2 5.2 5.1	4.1 4.1 4.1 4.2 4.3 4.0 3.9 3.9 3.9 3.8 3.7 3.7 3.9 4.0 4.3	5.2 5.0 5.1 5.3 5.7 5.9 6.2 6.3 6.3 6.2 6.4 6.7 6.6 6.8 6.9 6.9 6.9	5.0 4.9 4.7 4.6 4.8 5.0 5.5 5.8 6.0 6.0 5.9 6.7 6.9 6.9 6.9 6.9 6.9 6.9	5.0 4.9 5.1 5.3 6.0 6.2 6.1 6.4 6.5 6.7 6.8 6.9 6.9 6.9 6.8
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27				      3.8 3.7 3.7 3.7 3.7 3.7 3.9 4.1 4.3	      3.5 3.4 3.5 3.6 3.7 3.8 3.8 3.8	     3.6 3.6 3.5 3.7 3.8 4.0 4.0	4.1 4.1 4.2 4.2 4.3 4.4 4.2 4.0 3.9 4.1 4.0 3.7 3.6 8 4.0 4.0 3.7 3.6 4.0 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	3.9 4.1 4.0 4.1 4.1 4.1 4.1 3.9 3.9 3.7 3.7 3.6 3.4 3.6 3.8 4.1 4.7 5.2 5.1 4.9 4.6	4.1 4.1 4.1 4.2 4.3 4.0 3.9 3.9 3.9 3.9 3.6 3.7 3.9 4.7 5.1 5.3 5.2 5.1	5.2 5.1 5.3 5.7 6.2 6.3 6.2 6.4 6.6 6.8 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.8	5.0 4.9 4.7 4.6 4.8 5.0 5.5 6.0 5.6 5.5 5.9 6.5 5.5 6.9 6.9 6.9 6.9 6.9 6.7	5.0 4.9 5.1 5.8 6.0 6.1 6.4 6.5 6.7 6.8 6.9 6.9 6.9 6.9 6.9 6.9 6.7 6.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28				       3.8 3.7 3.7 3.7 3.7 3.7 3.9 4.1 4.0 4.0 3.9	      3.5 3.4 3.5 3.6 3.7 3.8 3.8 3.8	     3.6 3.6 3.5 3.7 3.8 4.0 4.0 3.9 3.9	4.1 4.1 4.1 4.2 4.2 4.3 4.4 4.2 4.0 3.9 3.9 4.1 4.0 4.0 3.7 3.6 4.0 4.2 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	3.9 4.1 4.0 4.1 4.1 4.1 3.9 3.9 3.7 3.7 3.7 3.6 3.4 4.1 4.2 5.2 5.2 5.1 4.9 4.8	4.1 4.1 4.1 4.2 4.3 4.0 3.9 3.9 3.9 3.8 3.9 3.6 3.7 3.7 3.9 4.0 4.3 4.7 5.1 5.3 5.2 5.1	5.2 5.1 5.3 5.7 6.2 6.3 6.3 6.2 6.4 6.6 6.7 6.8 6.9 6.9 6.9 6.9 6.8 6.9	5.0 4.7 4.6 4.8 5.5 5.8 6.0 5.5 5.9 6.7 6.9 6.9 6.9 6.9 6.9 6.9 6.7 6.8	5.0 4.9 4.1 5.3 6.0 6.2 6.1 6.1 6.4 6.7 7 6.8 6.9 9 6.9 9 6.9 9 6.9 6.8 6.7 7 6.8 6.8 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30				      3.8 3.7 3.7 3.7 3.7 3.7 3.9 4.1 4.3	      3.5 3.4 3.5 3.5 3.6 3.7 3.8 3.8 3.8 3.8 3.8	     3.6 3.6 3.5 3.6 3.7 3.8 4.0 4.0 3.9 3.9 3.9 4.0	4.1 4.1 4.2 4.2 4.3 4.4 4.2 4.0 3.9 3.9 4.1 4.0 3.7 3.6 8 4.0 3.7 3.8 4.0 4.2 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	3.9 4.1 4.0 4.1 4.1 4.1 4.1 4.0 3.9 3.9 3.7 3.7 3.6 3.4 4.3 6.3 8.8 4.1 4.7 5.2 5.1 4.6 4.8 4.8	4.1 4.1 4.1 4.2 4.3 4.0 3.9 3.9 3.9 3.9 3.6 3.7 3.9 4.7 5.3 5.2 5.1 4.9 4.9 4.9	5.2 5.1 5.3 5.7 6.3 6.2 6.4 6.6 6.8 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9	5.0 4.7 4.6 4.8 5.5.8 6.0 5.5.9 6.5 5.5.9 6.7 6.9 6.9 6.9 6.7 6.8 6.6	5.0 4.9 4.1 5.3 5.8 6.3 6.2 6.1 6.5 6.7 7.6 6.8 9.9 9.9 9.9 9.9 9.8 6.7 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29				       3.8 3.7 3.7 3.7 3.7 3.7 3.9 4.1 4.3	      3.5 3.4 3.5 3.6 3.7 3.8 3.8 3.8 3.8	      3.6 3.6 3.5 3.6 3.7 3.8 4.0 4.0	4.1 4.1 4.2 4.2 4.2 4.0 3.9 3.9 4.1 4.0 3.7 3.6 4.0 4.0 3.7 3.6 4.0 4.0 4.0 5.2 4.5 4.5 4.5 4.5 4.5 4.5 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6	3.9 4.1 4.0 4.1 4.1 4.1 4.0 3.9 3.9 3.7 3.7 3.7 3.6 3.4 4.3 4.1 4.2 5.2 5.2 5.1 4.9 4.6 4.8	4.1 4.1 4.1 4.2 4.3 4.0 3.9 3.9 3.8 3.9 3.8 3.6 3.5 3.7 3.9 4.0 4.3 4.7 5.3 5.2 5.1 4.9 4.9	5.2 5.0 5.1 5.3 5.7 6.2 6.3 6.2 6.4 6.7 6.6 6.7 6.8 6.9 6.9 6.9 6.9 6.9	5.0 4.7 4.6 4.8 5.5 5.8 6.0 5.5 5.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.8 6.7 6.8	5.0 4.9 4.1 5.3 5.8 6.3 6.3 6.1 6.1 6.5 6.7 7.8 6.9 9.9 9.9 9.9 6.9 6.9 6.9 6.9 6.9 6.9

08235250 ALAMOSA RIVER ABOVE WIGHTMAN FORK NEAR JASPER, CO--Continued

431 RIO GRANDE BASIN

pH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

		F,		,, ,		,						
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		5	SEPTEMBE	R
1 2 3 4 5	6.8 6.8 6.9 6.9	6.2 6.5 6.7 6.7	6.6 6.7 6.8 6.8	6.9 6.9 6.9 7.0 6.9	6.8 6.8 6.8 6.8	6.9 6.8 6.9 6.9	6.6   6.6	  	  	6.9 6.8 7.1 	6.6 5.9 5.0 	6.8 6.5 6.8 
6 7 8 9 10	6.9 6.9 6.9 7.0	6.8 6.9 6.9 6.9	6.9 6.9 6.9 6.9	6.9 6.8 6.7 6.8	6.7 6.7 6.6 6.6 6.5	6.9 6.7 6.6 6.7	6.6 6.5 6.4 6.7	3.5 4.6 6.2 6.1 5.3	6.0 5.6 6.4 6.3 6.2	  		
11 12 13 14 15	7.0 7.0 6.8 6.8	6.9 6.7 6.8 6.8	7.0 6.9 6.8 6.8	6.7 6.7 6.7 6.7	6.5 6.4 6.4 6.4	6.6 6.6 6.6 6.5	6.7 6.7 6.6 6.7 6.5	6.6 6.4 5.9 6.1 5.8	6.7 6.6 6.5 6.2	  		
16 17 18 19 20	6.8 6.8 6.8 6.8	6.7 6.7 6.7 6.7 6.7	6.8 6.8 6.8 6.8	6.6 6.5 6.6 6.5	6.2 5.8 5.9 5.9 6.0	6.4 6.3 6.2 6.3	6.1 5.7 6.5 6.2 5.6	5.4 5.2 3.6 5.4 5.2	5.8 5.5 5.4 5.8 5.4	6.6 6.2 6.0 5.7	6.1 5.8 5.6 5.1	6.4 6.1 5.8 5.6
21 22 23 24 25	6.8 6.8 6.8 7.0	6.7 6.7 6.7 6.7 6.9	6.8 6.8 6.7 6.8 7.0	6.7 6.6 6.4 6.5	5.9 6.2 6.0 5.8 5.8	6.5 6.4 6.2 6.2	6.2 6.8 6.4 7.1 7.2	5.3 5.6 3.7 4.5 4.8	5.4 6.2 5.9 6.1 6.6	7.1 7.3 7.3 7.2 7.1	3.9 6.7 7.2 7.1 7.0	6.2 7.1 7.2 7.1 7.1
26 27 28 29 30 31	7.0 7.0 7.0 7.0 7.0	7.0 6.9 6.9 6.9	7.0 7.0 6.9 6.9 6.9	6.5 6.5 6.0  6.6 6.6	5.4 4.1 4.2  5.0 5.0	5.9 6.0 5.7  6.1 6.3	7.1 7.1 6.9 6.7 6.5	4.5 6.8 6.6 6.4 4.7 6.1	6.6 7.0 6.8 6.6 6.3	7.1 7.1 6.9 6.8 6.6	7.1 6.9 6.7 6.5 6.3	7.1 7.0 6.9 6.7 6.5
MONTH	7.0	6.2	6.8									

			TEMPERA	ATURE, WAT	ER (DEG.	C), WATER	YEAR OCTO	OBER 1996	TO SEPTE	MBER 1997		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		Ι	DECEMBER			JANUARY	
1	11.4	2.2	6.2									
2		2.7										
3												
4												
5												
3												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
26 27												
28												
29												
30												
31												
MONTH												

432 RIO GRANDE BASIN

# 08235250 ALAMOSA RIVER ABOVE WIGHTMAN FORK NEAR JASPER, CO--Continued

							TEAK OCTO					
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	F	FEBRUARY			MARCH			APRIL			MAY	
1							4.8	.0	1.4	3.1	.0	1.4
2							4.5 5.5	.0	1.6 1.9	7.5 9.7	.0	2.5 3.5
4 5							3.0	.0	1.0	9.3 7.5	.1	3.6 2.9
6 7							.9 2.2	. 0	.1 .5	6.4 5.0	.6 .6	2.3 2.1
8							4.5	.0	1.3	6.6	.5	2.4
9 10							3.7 2.5	.0	1.2	3.7 6.7	.0	1.5 2.8
11							4.4	. 0	1.0	6.7	.6	2.9
12							2.7	.0	.7	8.1	. 9	3.2
13 14							5.2 5.9	.0	1.0 1.7	7.7 5.6	.6 .8	2.8 2.5
15							7.6	.0	2.7	6.0	.8	2.5
16							8.7	.0	3.4	5.3	1.0	2.3
17 18				.9	.0		8.9 6.6	.0	2.9 2.3	6.8 6.1	$\frac{1.1}{1.2}$	2.7 2.7
19 20				.8 1.5	.0	.2	7.3 6.3	.0	2.2 1.9	4.6 5.9	1.2	2.5
21 22				1.8 1.7	. 0	.3	5.5 5.8	. 2	1.8 1.8	4.4 5.3	1.6 1.8	2.6 3.0
23 24				3.4	.0	.8	2.9 4.4	.0	1.1	6.0 4.4	1.3 1.4	3.0
25				5.0	.0	.8 1.3	1.9	.0	1.1	6.3	1.0	2.5 2.9
26				5.2	. 0	1.3	6.3	. 0	2.1	7.1	1.1	3.3
27				5.3	.0	1.5	9.9	.0	3.7	8.9	. 4	3.7
28 29				6.0 5.9	.0	1.6 1.8	5.6 6.7	. 7 . 5	2.7 2.5	7.9 8.5	1.2 1.5	3.8 4.0
30 31				4.8 4.1	. 0	1.4 1.2	8.0	.0	2.9	8.1 7.8	1.9 1.7	3.7 3.7
MONTH							9.9	.0	1.7	9.7	.0	2.8
PIOIVIII											. 0	
		JUNE			JULY			AUGUST			SEPTEM	
1	7.8	1.8	3.7	12.3	3.0	6.7		6.9		13.8	8.3	BER
2	7.6	1.8 1.6	3.5	13.1	3.0	6.9				14.2	8.3 7.5	BER 10.8 10.5
2 3 4	7.6 8.2 8.4	1.8 1.6 1.6	3.5 3.9 4.0	13.1 13.3 13.2	3.0 2.2 3.0 2.9	6.9 7.4 7.2	  	6.9  	  	14.2 12.4 13.3	8.3 7.5 7.3 7.6	10.8 10.5 9.8 10.4
2 3 4 5	7.6 8.2 8.4 7.4	1.8 1.6 1.6 1.9	3.5 3.9 4.0 3.8	13.1 13.3 13.2 11.5	3.0 2.2 3.0 2.9 3.2	6.9 7.4 7.2 6.8	13.6	6.9   	  	14.2 12.4 13.3 12.4	8.3 7.5 7.3 7.6 6.6	10.8 10.5 9.8 10.4 9.8
2 3 4 5	7.6 8.2 8.4 7.4	1.8 1.6 1.6 1.9 1.8	3.5 3.9 4.0 3.8	13.1 13.3 13.2 11.5	3.0 2.2 3.0 2.9 3.2	6.9 7.4 7.2 6.8	   13.6	6.9    6.6	   9.3	14.2 12.4 13.3 12.4	8.3 7.5 7.3 7.6 6.6	10.8 10.5 9.8 10.4 9.8
2 3 4 5 6 7 8	7.6 8.2 8.4 7.4 5.5 6.5 4.4	1.8 1.6 1.6 1.9 1.8	3.5 3.9 4.0 3.8 3.5 4.0 3.2	13.1 13.3 13.2 11.5 13.1 9.7 10.4	3.0 2.2 3.0 2.9 3.2 3.1 4.0 3.5	6.9 7.4 7.2 6.8 7.5 6.5 6.6	  13.6 11.4 12.3 14.3	6.9    6.6 7.6 6.6	9.3 9.7	14.2 12.4 13.3 12.4 12.6 13.1 13.5	8.3 7.5 7.3 7.6 6.6 7.4 6.5 6.8	10.8 10.5 9.8 10.4 9.8 10.1 9.9
2 3 4 5	7.6 8.2 8.4 7.4 5.5 6.5	1.8 1.6 1.6 1.9 1.8	3.5 3.9 4.0 3.8 3.5 4.0	13.1 13.3 13.2 11.5 13.1 9.7	3.0 2.2 3.0 2.9 3.2 3.1 4.0	6.9 7.4 7.2 6.8 7.5 6.5	  13.6 11.4 12.3	6.9    6.6 7.6	   9.3 9.7	14.2 12.4 13.3 12.4 12.6 13.1	8.3 7.5 7.3 7.6 6.6 7.4 6.5	BER  10.8 10.5 9.8 10.4 9.8 10.1 9.9
2 3 4 5 6 7 8 9	7.6 8.2 8.4 7.4 5.5 6.5 4.4 5.2 9.3	1.8 1.6 1.6 1.9 1.8 1.9 2.8 2.3 1.8	3.5 3.9 4.0 3.8 3.5 4.0 3.2 3.3	13.1 13.3 13.2 11.5 13.1 9.7 10.4 9.6 12.5	3.0 2.2 3.0 2.9 3.2 3.1 4.0 3.5 3.7 3.9	6.9 7.4 7.2 6.8 7.5 6.6 6.9 8.0	  13.6 11.4 12.3 14.3 13.8	6.9   6.6 7.6 6.6 6.5	9.3 9.7 10.4	14.2 12.4 13.3 12.4 12.6 13.1 13.5 10.8 13.6	8.3 7.5 7.3 7.6 6.6 7.4 6.5 6.8 8.0 6.7	BER  10.8 10.5 9.8 10.4 9.8 10.1 9.9 10.3 9.5 9.7
2 3 4 5 6 7 8 9 10	7.6 8.2 8.4 7.4 5.5 6.5 4.4 5.2 9.3	1.8 1.6 1.6 1.9 1.8 2.8 2.3 1.8 2.9	3.5 3.9 4.0 3.8 3.5 4.0 3.2 3.3 4.9 4.7	13.1 13.3 13.2 11.5 13.1 9.7 10.4 9.6 12.5	3.0 2.2 3.0 2.9 3.2 3.1 4.0 3.5 3.7 3.9	6.9 7.4 7.2 6.8 7.5 6.5 6.6 6.9 8.0 8.7	13.6 11.4 12.3 14.3 13.8 	6.9   6.6 7.6 6.5 8.7	9.3 9.7 10.4 10.3	14.2 12.4 13.3 12.4 12.6 13.1 13.5 10.8 13.6	8.3 7.5 7.3 7.6 6.6 7.4 6.5 6.8 0.7	10.8 10.8 10.5 9.8 10.4 9.8 10.1 9.9 10.3 9.5 9.7
2 3 4 5 6 7 8 9 10 11 12 13 14	7.6 8.2 8.4 7.4 5.5 6.5 4.4 5.2 9.3 9.5 9.7	1.8 1.6 1.9 1.8 1.9 2.8 2.3 1.8 2.9 2.1 1.8 2.2	3.5 3.9 4.0 3.8 3.5 4.0 3.2 3.3 4.9 4.7 4.7 4.6 4.9	13.1 13.3 13.2 11.5 13.1 9.7 10.4 9.6 12.5 10.3 13.9 14.7 15.2	3.0 2.2 3.0 2.9 3.2 3.1 4.0 3.5 3.7 3.9 4.3	6.9 7.4 6.8 7.5 6.6 6.9 8.0 8.7 8.7 9.5	  13.6 11.4 12.3 14.3 13.8  13.1 13.0 11.8	6.9   6.6 7.6 6.5 8.7  6.6 5.9	9.3 9.7 10.4 10.3	14.2 12.4 12.6 13.1 13.5 10.8 13.6	8.3 7.5 7.3 7.6 6.6 7.4 6.5 8.0 6.7 6.2 6.7 5.6	10.8 10.5 9.8 10.4 9.8 10.1 9.9 10.3 9.5 9.7 9.5 10.0 8.8 9.3
2 3 4 5 6 7 8 9 10 11 12 13	7.6 8.2 8.4 7.4 5.5 6.5 4.4 5.2 9.3 9.5 9.3 7.9	1.8 1.6 1.6 1.9 1.8 2.8 2.3 1.8 2.9	3.5 3.9 4.0 3.8 3.5 4.0 3.2 3.3 4.9 4.7 4.7	13.1 13.3 13.2 11.5 13.1 9.7 10.4 9.6 12.5	3.0 2.2 3.0 2.9 3.2 3.1 4.0 3.5 3.7 3.9	6.9 7.4 6.8 7.5 6.6 6.9 8.0 8.7 8.9	13.6 11.4 12.3 14.3 13.8 	6.9   6.6 7.6 6.5 8.7	9.3 9.7 10.4 10.3	14.2 12.4 13.3 12.4 12.6 13.1 13.5 10.8 13.6	8.3 7.5 7.3 7.6 6.6 7.4 6.5 6.8 8.0 6.7 6.2 6.7 5.6	10.8 10.5 9.8 10.4 9.8 10.3 9.5 9.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.6 8.2 8.4 7.4 5.5 6.5 4.4 5.2 9.3 9.5 9.7 9.7 9.8 8.1	1.8 1.6 1.9 1.8 1.9 2.8 2.3 1.8 2.9 2.1 1.8 2.2 2.1	3.5 3.9 4.0 3.8 3.5 4.0 3.2 3.3 4.9 4.7 4.7 4.6 4.9 4.9	13.1 13.3 13.2 11.5 13.1 9.7 10.4 9.6 12.5 10.3 13.9 14.7 15.2 13.9	3.0 2.2 3.0 2.9 3.2 3.1 4.0 3.5 3.7 3.9 6.2 4.3 9.4.4 5.2	6.9 7.4 6.8 7.5 6.6 6.9 8.0 8.7 9.5 9.7 8.9	  13.6 11.4 12.3 14.3 13.8  13.1 13.0 11.8 15.2	6.9   6.6 7.6 6.5 8.7  6.9 5.0	9.3 9.7 10.4 10.3  9.9 8.9 9.7	14.2 12.4 13.3 12.4 12.6 13.1 13.5 10.8 13.6 13.1 14.2 11.3 12.9 12.6	8.3 7.3 7.6 6.6 7.4 6.8 8.0 6.7 6.2 6.1 5.7	10.8 10.5 9.8 10.4 9.8 10.1 9.9 10.3 9.5 9.7 9.5 10.0 8.8 9.3 8.8
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	7.6 8.2 8.4 7.4 5.5 6.5 4.4 5.3 9.3 7.9 9.7 9.8 8.1 8.5 11.4	1.8 1.6 1.9 1.8 1.9 2.8 2.3 1.8 2.9 2.1 1.8 2.3 2.2 2.1	3.5 3.9 4.0 3.8 3.5 4.0 3.2 3.3 4.9 4.7 4.6 4.9 4.9 4.5 5.2 6.0	13.1 13.3 13.2 11.5 13.1 9.7 10.4 9.6 12.5 10.3 13.9 14.7 15.2 13.9	3.0 2.2 3.0 2.9 3.2 3.1 4.0 3.5 3.7 3.9 4.4 5.2 5.7 5.8 5.5	6.9 7.4 6.8 7.5 6.6 6.6 8.0 8.7 8.9 9.5 7.9	13.6 11.4 12.3 14.3 13.8  13.1 13.0 11.8 15.2	6.9   6.66 6.57  6.90 5.90 6.57 8.6	9.3 9.7 10.4 10.3  9.9 8.9 9.7	14.2 12.4 13.3 12.4 12.6 13.1 13.5 10.8 13.6 13.1 14.2 11.3 12.9 12.6	8.3 7.3 7.6 6.6 7.4 6.8 8.0 6.7 6.2 6.7 5.6 6.1 7	10.8 10.5 9.8 10.4 9.8 10.3 9.5 9.7 9.5 9.7 9.5 10.0 8.8 9.3 8.8
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	7.6 8.2 8.4 7.4 5.5 6.5 4.4 5.2 9.3 9.5 9.7 9.7 9.8 8.1 8.5 11.4 9.6	1.8 1.6 1.9 1.8 1.9 2.8 2.3 1.8 2.9 2.1 1.8 2.2 2.1	3.5 3.9 4.0 3.8 3.5 4.0 3.2 3.3 4.9 4.7 4.6 4.9 4.9 4.5 5.2 6.0 5.5	13.1 13.3 13.2 11.5 13.1 9.7 10.4 9.6 12.5 10.3 13.9 14.7 15.2 13.9 11.8 10.9 9.4	3.0 2.2 3.0 2.9 3.2 3.1 4.0 3.5 3.7 3.9 6.2 4.3 9.4.4 5.2 5.7 5.8 5.6.1	6.9 7.42 6.8 7.55 6.69 8.0 8.07 9.57 8.9 9.57 8.59 8.6	  13.6 11.4 12.3 14.3 13.8  13.1 13.0 11.8 15.2 15.1 14.9 12.8 13.3	6.9   6.6 6.5 8.7  6.5 8.7  6.7 6.5 8.7  6.7 6.9 5.9	9.3 9.7 10.4 10.3  9.9 8.9 9.7	14.2 12.4 13.3 12.4 12.6 13.1 13.5 10.8 13.6 13.1 14.2 11.3 12.9 12.6 12.7 12.1 14.4	8.3 7.3 7.6 6.6 7.4 6.8 8.0 6.7 6.2 6.6 6.1 7.5 6.1 7.5 6.2 7.3 7.6 6.3 7.5 7.6 6.3 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	10.8 10.5 9.8 10.4 9.8 10.1 9.9 10.3 9.5 9.7 9.5 10.0 8.8 9.3 8.6 10.4
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	7.6 8.2 8.4 7.4 5.5 6.5 4.4 5.2 9.3 9.5 9.3 7.9 9.7 9.7 9.8 8.1 8.5 11.4 9.6 10.9	1.8 1.6 1.9 1.8 1.9 2.8 2.3 1.8 2.9 2.1 1.8 2.3 2.2 2.1	3.5 3.9 4.0 3.8 3.5 4.0 3.2 3.3 4.9 4.7 4.6 4.9 4.9 4.5 5.2 6.0 5.5	13.1 13.3 13.2 11.5 13.1 9.7 10.4 9.6 12.5 10.3 13.9 14.7 15.2 13.9 11.8 10.9 9.4 11.0	3.0 2.2 3.0 2.9 3.1 4.0 3.5 3.7 3.9 4.4 5.2 5.7 5.8 6.1 7.1	6.9 7.4 6.8 7.5 6.6 6.6 8.0 8.7 8.9 9.5 7.9 8.5 7.9 8.6 10.1	  13.6 11.4 12.3 14.3 13.8  13.1 13.0 11.8 15.2 15.1 14.9 12.8 13.3 15.0	6.9  6.6 6.6 6.5 8.7  6.6 5.9 6.7 8.9 7.0	9.3 9.7 10.4 10.3  9.9 8.9 9.7 10.7 10.6 10.3 9.6 10.9	14.2 12.4 13.3 12.4 12.6 13.1 13.5 10.8 13.6 13.1 14.2 11.3 12.9 12.6 12.7 12.1 14.4 13.7	8.3 7.3 7.6 6.6 7.4 6.8 8.0 6.7 6.2 6.7 5.6 6.1 7 6.2 7 7.2 7.2	10.8 10.5 9.8 10.4 9.8 10.3 9.5 9.7 9.5 10.0 8.8 9.3 8.8 9.3 8.6 10.4
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	7.6 8.2 8.4 7.4 5.5 6.5 4.4 5.2 9.3 9.5 9.3 7.9 9.7 9.8 8.1 8.5 11.4 9.9	1.8 1.6 1.9 1.8 1.9 2.8 2.3 1.8 2.9 2.1 1.8 2.2 2.1 1.6 2.4 2.9 2.5	3.5 4.0 3.8 3.5 4.0 3.2 3.3 4.9 4.7 4.6 4.9 4.9 4.5 5.7 5.8 6.2	13.1 13.3 13.2 11.5 13.1 9.7 10.4 9.6 12.5 10.3 13.9 14.7 15.2 13.9 11.8 10.9 9.4 11.0 13.6	3.0 2.2 3.0 2.9 3.2 3.1 4.0 3.5 3.7 3.9 6.2 4.3 4.4 5.2 5.7 5.8 5.5 6.1 7.1	6.9 7.4 6.8 7.5 6.6 6.9 8.0 8.7 8.9 9.7 8.9 9.7 8.9 8.5 9.7	 13.6 11.4 12.3 14.3 13.8  13.1 13.0 11.8 15.2 15.1 14.9 12.8 13.3 15.0	6.9   6.6 7.6 6.5 8.7  6.9 5.0 6.7 8.9 7.0 7.7 8.3	9.3 9.7 10.4 10.3  9.9 8.9 9.7 10.7 10.6 10.3 9.6 10.9	14.2 12.4 13.3 12.4 12.6 13.1 13.5 10.8 13.6 13.1 14.2 11.3 12.9 12.6 12.7 12.1 14.4 13.7 10.9	8.3 7.3 7.6 6.6 7.4 6.8 8.0 6.7 6.2 6.7 5.1 7.2 8.3 7.2 7.2	10.8 10.5 9.8 10.4 9.8 10.1 9.9 10.3 9.5 9.7 9.5 10.0 8.8 9.3 8.6 10.4 9.9 9.8
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	7.6 8.2 8.4 7.4 5.5 6.5 4.4 5.2 9.3 9.5 9.7 9.7 9.7 9.7 9.7 9.7 9.6 10.9	1.8 1.6 1.9 1.8 1.9 2.8 2.3 1.8 2.9 2.1 1.6 2.3 2.2 2.1 1.6 2.9 2.5 2.4 2.9 2.5	3.5 3.9 4.0 3.8 3.5 4.0 3.2 3.3 4.9 4.7 4.6 4.9 4.9 5.5 5.7 5.8 6.3	13.1 13.3 13.2 11.5 13.1 9.7 10.4 9.6 12.5 10.3 13.9 14.7 15.2 13.9 14.7 15.2 13.9 14.7 15.2 13.9 14.7 15.2 13.9 14.7 15.2 13.9 14.7 15.2 13.9 14.7 15.2 13.9 14.7 15.2 13.9 14.7 15.2 13.9 14.7 15.2 13.9 14.7 15.2 13.9 14.7 15.2 13.9 14.7 15.2 13.9 14.7 15.2 13.9 14.7 15.2 13.9 14.7 15.2 13.6 14.7 15.2 15.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16	3.0 2.2 3.0 2.9 3.1 4.0 3.5 3.7 3.9 4.4 5.2 5.7 5.8 5.5 6.1 7.1	6.9 7.42 6.8 7.55 6.6 8.0 8.7 9.7 8.9 9.7 8.9 9.7 8.61 9.4 9.6	11.4 12.3 14.3 13.6 14.3 13.8  13.1 13.0 11.8 15.2 15.1 14.9 12.8 13.3 15.0 13.8 12.0 14.5	6.9 	9.3 9.7 10.4 10.3  9.9 8.9 9.7 10.7 10.6 10.3 9.6 10.9	14.2 12.4 13.3 12.4 12.6 13.1 13.5 10.8 13.6 13.1 14.2 11.3 12.9 12.6 12.7 12.1 14.4 13.7 10.9	8.3 7.3 7.6 6.6 7.4 6.8 8.0 7 6.2 6.7 5.6 6.1 7 6.2 7 5.4 8.3 7.2 7.2 7.2 7.2 7.3 7.6 8.3 7.2 7.3 7.6 8.3 7.6 8.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	10.8 10.5 9.8 10.4 9.8 10.1 9.9 10.3 9.5 9.7 9.5 10.0 8.8 9.3 8.8 9.3 8.6 10.4
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	7.6 8.2 8.4 7.4 5.5 6.5 4.4 5.2 9.3 9.5 9.3 7.9 9.7 9.8 8.1 8.5 11.4 9.9	1.8 1.6 1.9 1.8 1.9 2.8 2.3 1.8 2.9 2.1 1.8 2.2 2.1 1.6 2.4 2.9 2.5	3.5 4.0 3.8 3.5 4.0 3.2 3.3 4.9 4.7 4.6 4.9 4.9 4.5 5.7 5.8 6.2	13.1 13.3 13.2 11.5 13.1 9.7 10.4 9.6 12.5 10.3 13.9 14.7 15.2 13.9 11.8 10.9 9.4 11.0 13.6	3.0 2.2 3.0 2.9 3.2 3.1 4.0 3.5 3.7 3.9 6.2 4.3 4.4 5.2 5.7 5.8 5.5 6.1 7.1	6.9 7.4 6.8 7.5 6.6 6.9 8.0 8.7 8.9 9.7 8.9 9.7 8.9 8.5 9.7	13.6 11.4 12.3 14.3 13.8  13.1 13.0 11.8 15.2 15.1 14.9 12.8 13.3 15.0	6.9   6.6 7.6 6.5 8.7  6.9 5.0 6.7 8.9 7.0 7.7 8.3	9.3 9.7 10.4 10.3  9.9 8.9 9.7 10.7 10.6 10.3 9.6 10.9	14.2 12.4 13.3 12.4 12.6 13.1 13.5 10.8 13.6 13.1 14.2 11.3 12.9 12.6 12.7 12.1 14.4 13.7 10.9	8.3 7.3 7.6 6.6 7.4 6.8 8.0 6.7 6.2 6.7 5.1 7.2 8.3 7.2 7.2	10.8 10.5 9.8 10.4 9.8 10.1 9.9 10.3 9.5 9.7 9.5 10.0 8.8 9.3 8.6 10.4 9.9 9.8
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## 08235270 WIGHTMAN FORK BELOW CROPSEY CREEK AT SUMMITVILLE, CO

LOCATION.--Lat  $37^{\circ}25'45$ ", long  $106^{\circ}35'03$ ", in NW¹/4NW¹/4 sec.29, T.37 N., R.4 E., Rio Grande County, Hydrologic Unit 13010002, on left bank about 200 feet downstream from Cropsey Creek, and 0.25 mi east of Summitville.

DRAINAGE AREA.--4.44 mi².

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1995 to current year (seasonal records only).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 11,120 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow partially regulated by Summitville Mine.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge during period of seasonal operation, 175 ft³/s, June 1, 1997, gage height, 6.13 ft, from rating curve extended above 64 ft³/s; minimum daily discharge, 0.90 ft³/s, Aug. 19, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 175 ft³/s, June 1, gage height, 6.13 ft, from rating curve extended above 64 ft³/s; minimum daily discharge, 1.7 ft³/s, Oct. 1, and estimated on Oct. 2.

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

			DISCHARC	JE, CODIC I	EET LEK SE	DAILY ME	AN VALUES		70 TO SEI 1	EMDER 199	,	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7								98	13	6.2	5.3
2	e1.7								83	12	6.5	6.2
3									79	11	6.0	6.8
4									78	11	7.9	6.2
5									62	10	9.9	5.4
6									51	10	10	5.3
7									52	9.4	12	5.1
8									43	8.6	9.3	5.0
9									35	8.3	4.9	5.4
10									38	9.5	11	5.1
11									37	9.9	10	5.0
12									35	8.6	6.5	5.0
13									33	8.0	4.5	4.9
14									32	7.3	4.2	4.6
15									30	7.7	3.8	4.4
16								e55	42	7.2	4.3	4.7
17								64	39	6.5	4.9	4.2
18								60	35	7.4	5.4	3.6
19								57	33	7.3	5.3	4.4
20								67	34	7.1	4.7	5.0
21								57	33	7.6	4.6	16
22								52	32	7.1	4.6	12
23								56	29	7.8	5.2	7.9
24								50	24	7.0	4.9	6.3
25								43	22	7.0	5.5	5.7
26								40	20	7.2	8.5	5.3
27								39	19	8.0	5.2	5.1
28								47	18	8.0	4.9	4.4
29								62	17	7.1	4.8	4.8
30								90	15	8.5	5.4	3.9
31								118		7.4	5.7	
TOTAL									1198	262.5	196.6	173.0
MEAN									39.9	8.47	6.34	5.77
MAX									98	13	12	16
MIN									15	6.5	3.8	3.6
AC-FT									2380	521	390	343

e-Estimated.

## 08235270 WIGHTMAN FORK BELOW CROPSEY CREEK AT SUMMITVILLE, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1995 to current year (seasonal record only).

PERIOD OF DAILY RECORD.-- SPECIFIC CONDUCTANCE: July 1995 to current year (seasonal record only).

WATER TEMPERATURE: July 1995 to current year (seasonal record only).

pH: July 1995 to current year (seasonal record only).

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Daily records for specific conductance are fair. Daily records for pH are fair. Daily records for water temperature are fair. Daily data that are not published during period of seasonal operation (Oct. 1-2 and May 16 to Sept. 30) are either missing or of unacceptable quality.

## EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum during period of seasonal operation, 2,930 microsiemens, Aug. 24, 1995; minimum, 108 microsiemens May 6, 1996.

pH: Maximum during period of seasonal operation, 6.8 units Apr. 29-30, 1996; minimum, 2.8 units Sept. 12, 1996, Aug. 14, 1997. WATER TEMPERATURE: Maximum during period of seasonal operation, 21.8°C, July 20, 1996; minimum, 0.0°C, on many days.

#### EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum during period of seasonal operation, 2,370 microsiemens, Aug. 14; minimum, 223 microsiemens May 18.

pH: Maximum during period of seasonal operation, 5.4 units Oct. 2; minimum, 2.8 units Aug. 14. WATER TEMPERATURE: Maximum during period of seasonal operation, 18.2°C, Aug. 27; minimum, 0.0°C, on several days.

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	VEMBER		DE	CEMBER			JANUARY	ď
1 2	2290 2230	1190	1910									
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MONTH												

RIO GRANDE BASIN 435

**08235270** WIGHTMAN FORK BELOW CROPSEY CREEK AT SUMMITVILLE, CO--Continued SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM @ 25 DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

		SIL	ch ic com	DUCTANCE,	(MICKOSI	EIVIEI (B) CIVI	e 23 DEG.	C), WIIILI	C I LI IIC OC	I OBER 1990	O DEI TEI	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
		PEDICOART			PIARCII			AFKIL			PIAI	
1												
2												
4												
5												
6												
7												
8												
9 10												
10												
11												
12 13												
14												
15												
16										1170	794	1040
17										915	449	668
18										635	223	377
19 20										823 931	234 503	570 740
20										23±	202	770
21										727	366	530
22 23										543 624	485 461	521 536
24										761	494	605
25										885	761	850
26										1000	865	939
27										1060	643	894
28										809	557	691
29 30										700 687	387 452	558 573
31										941	453	700
140377777												
MONTH												
MONTH												
MONTH		JUNE			JULY			AUGUST			SEPTEMBE	
1	708		493	754		722			1330			
1 2	708 610	JUNE 334 392	493 523	754 829	JULY 695 498	722 747	1390 1430	AUGUST 1260 1240	1330 1350	1790 1850	SEPTEMBE 801 906	1500 1640
1 2 3	708 610 855	JUNE 334 392 432	493 523 628	754 829 869	JULY 695 498 451	722 747 733	1390 1430 1380	AUGUST 1260 1240 1260	1330 1350 1320	1790 1850 1650	SEPTEMBE 801 906 1140	1500 1640 1470
1 2	708 610	JUNE 334 392	493 523	754 829	JULY 695 498	722 747	1390 1430	AUGUST 1260 1240	1330 1350	1790 1850	SEPTEMBE 801 906	1500 1640
1 2 3 4 5	708 610 855 757 675	JUNE 334 392 432 460 486	493 523 628 613 570	754 829 869 900 898	JULY 695 498 451 771 417	722 747 733 841 768	1390 1430 1380 1320 1240	1260 1240 1260 1260 878 824	1330 1350 1320 1200 1080	1790 1850 1650 1690 1160	SEPTEMBE 801 906 1140 1160 595	1500 1640 1470 1530 1030
1 2 3 4	708 610 855 757	JUNE 334 392 432 460	493 523 628 613	754 829 869 900	JULY 695 498 451 771	722 747 733 841	1390 1430 1380 1320	AUGUST  1260 1240 1260 878 824 701	1330 1350 1320 1200	1790 1850 1650 1690	SEPTEMBE 801 906 1140 1160	1500 1640 1470 1530 1030
1 2 3 4 5 6 7 8	708 610 855 757 675	JUNE 334 392 432 460 486	493 523 628 613 570	754 829 869 900 898 932 970 992	JULY 695 498 451 771 417 809 393 602	722 747 733 841 768 874 892 847	1390 1430 1380 1320 1240 1270 1780 1890	1260 1240 1260 878 824 701 757 704	1330 1350 1320 1200 1080 1110 1440 1510	1790 1850 1650 1690 1160 1700 1810 1880	801 906 1140 1160 595 1060 1700 1770	1500 1640 1470 1530 1030 1400 1750 1830
1 2 3 4 5 6 7 8	708 610 855 757 675	JUNE 334 392 432 460 486	493 523 628 613 570	754 829 869 900 898 932 970 992	JULY 695 498 451 771 417 809 393 602 593	722 747 733 841 768 874 892 847 868	1390 1430 1380 1320 1240 1270 1780 1890 1290	1260 1240 1260 878 824 701 757 704 696	1330 1350 1320 1200 1080 1110 1440 1510 754	1790 1850 1650 1690 1160 1700 1810 1880	SEPTEMBE 801 906 1140 1160 595 1060 1700 1770 1200	1500 1640 1470 1530 1030 1400 1750 1830 1700
1 2 3 4 5 6 7 8	708 610 855 757 675	JUNE 334 392 432 460 486	493 523 628 613 570	754 829 869 900 898 932 970 992	JULY 695 498 451 771 417 809 393 602	722 747 733 841 768 874 892 847	1390 1430 1380 1320 1240 1270 1780 1890	1260 1240 1260 878 824 701 757 704	1330 1350 1320 1200 1080 1110 1440 1510	1790 1850 1650 1690 1160 1700 1810 1880	801 906 1140 1160 595 1060 1700 1770	1500 1640 1470 1530 1030 1400 1750 1830
1 2 3 4 5 6 7 8 9 10	708 610 855 757 675	JUNE 334 392 432 460 486	493 523 628 613 570	754 829 869 900 898 932 970 992 1010 1380	JULY 695 498 451 771 417 809 393 602 593 955	722 747 733 841 768 874 892 847 868 1180	1390 1430 1380 1320 1240 1270 1780 1890 1290 1540	1260 1240 1260 878 824 701 757 704 696 705	1330 1350 1320 1200 1080 1110 1440 1510 754 1130	1790 1850 1650 1690 1160 1700 1810 1880 1670	SEPTEMBE 801 906 1140 1160 595 1060 1700 1770 1200 1420 1470	1500 1640 1470 1530 1030 1400 1750 1830 1700 1570
1 2 3 4 5 6 7 8 9 10	708 610 855 757 675	JUNE 334 392 432 460 486 390	493 523 628 613 570	754 829 869 900 898 932 970 992 1010 1380	JULY 695 498 451 771 417 809 393 602 593 955 1260 586	722 747 733 841 768 874 892 847 868 1180	1390 1430 1380 1320 1240 1270 1780 1890 1290 1540	1260 1240 1260 878 824 701 757 704 696 705	1330 1350 1320 1200 1080 1110 1440 1510 754 1130	1790 1850 1650 1690 1160 1700 1810 1880 1670	SEPTEMBE  801 906 1140 1160 595 1060 1700 1770 1200 1420 1470 1560	1500 1640 1470 1530 1030 1400 1750 1830 1700 1570
1 2 3 4 5 6 7 8 9 10	708 610 855 757 675	JUNE 334 392 432 460 486	493 523 628 613 570	754 829 869 900 898 932 970 992 1010 1380	JULY 695 498 451 771 417 809 393 602 593 955	722 747 733 841 768 874 892 847 868 1180	1390 1430 1380 1320 1240 1270 1780 1890 1290 1540	1260 1240 1260 878 824 701 757 704 696 705	1330 1350 1320 1200 1080 1110 1440 1510 754 1130	1790 1850 1650 1690 1160 1700 1810 1880 1670	SEPTEMBE 801 906 1140 1160 595 1060 1700 1770 1200 1420 1470	1500 1640 1470 1530 1030 1400 1750 1830 1700 1570
1 2 3 4 5 6 7 8 9 10	708 610 855 757 675 502	JUNE 334 392 432 460 486 390 407	493 523 628 613 570 464	754 829 869 900 898 932 970 992 1010 1380	JULY 695 498 451 771 417 809 393 602 593 955 1260 586 926	722 747 733 841 768 874 892 847 868 1180	1390 1430 1380 1320 1240 1270 1780 1890 1290 1540 1720 718	AUGUST  1260 1240 1260 878 824  701 757 704 696 705 1490 681 681	1330 1350 1320 1200 1080 1110 1440 1510 754 1130 1640 1040 702	1790 1850 1650 1690 1160 1700 1810 1880 1670 1720 1720 1740	801 906 1140 1160 595 1060 1700 1770 1200 1420 1470 1560 1660	1500 1640 1470 1530 1030 1400 1750 1830 1700 1570 1650 1650 1710
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	708 610 855 757 675 502 516 431	JUNE 334 392 432 460 486 390 407 401 225	493 523 628 613 570 464 463 344	754 829 869 900 898 932 970 992 1010 1380 1400 1080 1060 1170	JULY 695 498 451 771 417 809 393 602 593 955 1260 586 926 649 991	722 747 733 841 768 874 892 847 868 1180 1030 1010 894 1070	1390 1430 1380 1320 1240 1270 1780 1890 1290 1540 1720 718 2370 776	AUGUST  1260 1240 1260 878 824  701 757 704 696 705 1490 681 681 693 707	1330 1350 1320 1200 1080 1110 1440 1510 754 1130 1640 1040 702 752 733	1790 1850 1650 1690 1160 1700 1810 1880 1670 1720 1720 1740 1730	801 906 1140 1160 595 1060 1770 1200 1420 1470 1560 1550 755	1500 1640 1470 1530 1030 1400 1750 1830 1700 1570 1650 1650 1710 1680 1340
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	708 610 855 757 675 502 516 431	JUNE  334 392 432 460 486 390 407 401 225 231 708	493 523 628 613 570 464 463 344 490 884	754 829 869 900 898 932 970 992 1010 1380 1400 1080 1060 1170	JULY 695 498 451 771 417 809 393 602 593 955 1260 586 926 649 991 494 771	722 747 733 841 768 874 892 847 868 1180 1340 1030 1010 894 1070	1390 1430 1380 1320 1240 1270 1780 1890 1290 1540 1720 718 2370 776	1260 1240 1260 878 824 701 757 704 696 705 1490 681 681 693 707	1330 1350 1320 1200 1080 1110 1440 1510 754 1130 1640 702 733	1790 1850 1650 1690 1160 1700 1810 1880 1670 1720 1740 1730 1730	SEPTEMBE  801 906 1140 1160 595  1060 1770 1200 1420 1470 1560 1550 755 1190 1490	1500 1640 1470 1530 1030 1400 1750 1830 1700 1570 1650 1710 1650 1710 1680 1340
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	708 610 855 757 675 502 516 431 925 1100 869	JUNE  334 392 432 460 486  390 407 401 225 231 708 565	493 523 628 613 570 464 463 344 490 884 733	754 829 869 900 898 932 970 992 1010 1380 1400 1080 1060 1170	JULY  695 498 451 771 417  809 393 602 593 955  1260 586 926 649 991  494 771 1160	722 747 733 841 768 874 892 847 868 1180 1010 894 1070	1390 1430 1380 1320 1240 1270 1780 1890 1290 1540 1720 718 2370 776	AUGUST  1260 1240 1260 878 824  701 757 704 696 705 1490 681 681 693 707 724 1460 1270	1330 1350 1320 1200 1080 1110 1440 1510 754 1130 1640 1040 702 752 733	1790 1850 1650 1690 1160 1700 1810 1880 1670 1720 1720 1740 1730 1730 1500 1590 1660	801 906 1140 1160 595 1060 1770 1200 1420 1470 1560 1550 755 1190 1490 763	1500 1640 1470 1530 1030 1400 1750 1830 1700 1570 1650 1650 1710 1680 1340 1410 1540 1300
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# 08235270 WIGHTMAN FORK BELOW CROPSEY CREEK AT SUMMITVILLE, CO--Continued

pH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

			p11,	,,			NITS, WATE	it i Lint o				
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DI	ECEMBER			JANUARY	
1	5.2	4 4	4.9									
2	5.4	4.4	4.9									
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2 3 4 5 6 7 8 9 10								APRIL				
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2 3 4 5 6 7 8 9 10 11 12 13								APRIL				
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2 3 4 5 6 7 8 9 10 11 12 13 14 15								APRIL				
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18								APRIL		      3.4 3.7 4.1 4.1	       3.3 3.4 3.5 3.4	      3.4 3.5 3.8 3.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15								APRIL		      3.4 3.7 4.1	       3.3 3.4 3.5	      3.4 3.5 3.8
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23								APRIL		3.4 3.7 4.1 3.6 3.6 3.6 3.6	3.3 3.4 3.5 3.4 3.5 3.4 3.5	     3.4 3.5 3.8 3.7 3.4 3.5 3.8 3.7 3.4
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24								APRIL		      3.4 3.7 4.1 4.1 3.6 3.6 3.6 3.6 3.6 3.6	      3.3 3.4 3.5 3.4 3.5 3.4 3.5 3.4	3.4 3.5 3.6 3.5 3.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25								APRIL		3.4 3.7 4.1 4.1 3.6 3.6 3.6 3.6 3.6 3.6	3.3 3.4 3.5 3.4 3.5 3.4 3.5 3.4	    3.4 3.5 3.8 3.7 3.4 3.5 3.8 3.7 3.4
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26								APRIL		      3.4 3.7 4.1 4.1 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.4	      3.3 3.4 3.5 3.4 3.5 3.4 3.5 3.4 3.5 3.4	3.4 3.5 3.6 3.5 3.5 3.4 3.5 3.6 3.5 3.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27								APRIL		     3.4 3.7 4.1 3.6 3.6 3.6 3.6 3.6 3.6 3.5	3.3 3.4 3.5 3.4 3.5 3.4 3.5 3.4 3.3	    3.4 3.5 3.8 3.7 3.4 3.5 3.5 3.5 3.6 3.5 3.5 3.4 3.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26								APRIL		      3.4 3.7 4.1 4.1 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.4	      3.3 3.4 3.5 3.4 3.5 3.4 3.5 3.4 3.5 3.4	3.4 3.5 3.6 3.5 3.5 3.4 3.5 3.6 3.5 3.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30								APRIL		     3.4 3.7 4.1 3.6 3.6 3.6 3.6 3.6 3.6 3.5 3.5 3.5	      3.3 3.4 3.5 3.4 3.5 3.4 3.5 3.4 3.5 3.4 3.5 3.4 3.5	    3.4 3.5 3.8 3.7 3.4 3.5 3.5 3.5 3.4 3.5 3.5 3.5 3.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29								APRIL		     3.4 3.7 4.1 4.1 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.5 3.5	      3.3 3.4 3.5 3.4 3.5 3.4 3.5 3.4 3.3	3.4 3.5 3.5 3.6 3.5 3.4 3.5 3.5 3.5 3.5 3.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30								APRIL		     3.4 3.7 4.1 3.6 3.6 3.6 3.6 3.6 3.6 3.5 3.5 3.5	      3.3 3.4 3.5 3.4 3.5 3.4 3.5 3.4 3.5 3.4 3.5 3.4 3.5	    3.4 3.5 3.8 3.7 3.4 3.5 3.5 3.5 3.4 3.5 3.5 3.5 3.5

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pH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

08235270 WIGHTMAN FORK BELOW CROPSEY CREEK AT SUMMITVILLE, CO--Continued

			p11, W/11	LIC, WITOLL	., 1 ILLD, L	) I I I I D I I I I	J11115, 11711		OCTOBER 1.	770 TO BEI 11	LIVIDLIK 17	<i>)</i>
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		1	AUGUST		5	SEPTEMBE	R
1 2 3 4 5	3.7 3.7 3.6 3.6 3.6	3.4 3.5 3.3 3.3	3.5 3.5 3.5 3.4 3.4	4.3 4.3 4.3 4.3	4.1 4.2 4.1 4.2 4.1	4.2 4.2 4.2 4.2 4.2	4.2 4.1 4.0 4.0 3.8	4.0 3.3 3.8 3.6 3.5	4.0 3.9 4.0 3.8 3.6	4.2 4.3 4.3 4.3 4.2	3.7 3.3 3.6 3.4 3.9	4.1 4.1 4.1 4.2 4.1
6 7 8 9 10	3.7 3.8 3.8 3.8 3.8	3.6 3.7 3.8 3.8 3.8	3.7 3.7 3.8 3.8 3.8	4.3 4.3 4.2 4.2 4.2	4.2 4.2 4.1 4.1 3.3	4.3 4.2 4.2 4.2 3.7	3.8 3.6 3.8 3.6	3.6 3.1 3.1 3.6 3.1	3.7 3.3 3.3 3.6 3.3	4.2 4.3 4.3 4.4 4.3	4.0 4.2 4.2 3.2 4.1	4.2 4.2 4.3 4.1 4.2
11 12 13 14 15	3.9 4.1 4.1 4.2 4.2	3.8 3.9 4.1 4.1 4.0	3.8 3.9 4.1 4.1	3.3 4.0 4.1 4.2 4.2	3.3 3.2 4.0 4.0 4.0	3.3 3.6 4.1 4.1	3.1 3.6 3.6 3.6 3.6	3.1 3.0 3.6 2.8 3.5	3.1 3.4 3.6 3.6 3.6	4.4 4.3 4.3 4.3	3.4 3.9 3.7 4.1 3.1	4.2 4.2 4.2 4.2 4.0
16 17 18 19 20	4.2 3.6 3.8 3.9 3.8	3.4 3.3 3.5 3.8 3.6	3.8 3.5 3.7 3.8 3.7	4.0 4.0 4.0 4.0	3.8 3.8 3.4 3.6 3.7	4.0 4.0 3.8 3.9 3.9	4.3 4.3 4.1 4.1	3.5 4.1 3.5 3.4 4.0	3.8 4.2 4.0 4.0	4.3 4.4 4.4 4.4	3.9 4.3 3.9 4.0 3.5	4.2 4.3 4.2 4.3 4.3
21 22 23 24 25	3.6 3.5 3.7 4.2 4.3	3.5 3.4 3.4 3.7 3.8	3.5 3.5 3.5 3.9 4.2	3.9 3.9 4.0 3.1 3.9	3.5 3.8 3.0 2.9 3.1	3.8 3.9 3.7 3.0 3.5	4.3 4.3 4.3 4.3	4.0 4.0 3.8 4.3 3.5	4.1 4.2 4.2 4.3 4.2	5.0 4.3 4.3 4.4 4.6	3.5 3.6 3.9 4.3 4.4	4.1 3.8 4.2 4.3 4.5
26 27 28 29 30 31	3.8 3.8 3.9 4.1	3.7 3.7 3.7 3.8 3.9	3.7 3.8 3.8 3.8 4.0	3.9 4.1 4.1 4.3 4.1 4.0	3.5 3.6 3.6 3.7 3.5 3.4	3.8 3.9 3.8 4.0 3.8 3.7	4.7 4.4 4.3 4.3 4.2	3.7 4.3 4.1 4.2 3.2 3.5	4.1 4.4 4.3 4.3 4.1 4.0	4.6 4.7 4.7 4.7 	4.5 4.5 4.3 4.3 4.3	4.6 4.6 4.6 4.6
MONTH	4.3	3.3	3.7	4.3	2.9	3.9	4.7	2.8	3.9	5.0	3.1	4.3

						` '						
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	VEMBER		DE	CEMBER			JANUARY	
1	14.2	3.6	7.3									
2		4.1										
3												
4												
5												
3												
6												
7												
8												
9												
10												
10												
11												
12												
13												
14												
1.5												
1.0												
16												
17 18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MONTH												

# 08235270 WIGHTMAN FORK BELOW CROPSEY CREEK AT SUMMITVILLE, CO--Continued

				TEMPERATU	RE, WATI	ER (DEG. C)	, WATER YEA	AR OCTOE	BER 1996 TC	SEPTEMBEI	R 1997	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1												
2												
3 4												
5												
6												
7												
8 9												
10												
11												
12												
13 14												
15												
16										1.1	. 0	
17										1.4	.0	.3
18										1.6	.0	. 3
19 20										1.4 1.8	. 0 . 0	.3
21 22										1.3 1.7	.0 .1	. 4 . 5
23										2.2	. 0	.6
24										1.8	. 0	. 5
25										2.3	. 0	.6
26										2.6	.0	.8
27										3.4	. 0	1.1
28 29										2.5 2.8	.1	1.0
30										2.6	.3	1.0
31										2.9	.5	1.3
MONTH												
		JUNE			JULY		7	AUGUST			SEPTEMBE	סי
1 2	3.2 3.5	. 5	1.3 1.8	11.4 12.2	1.8 1.6	5.8	16.9 13.0	6.6 6.8	10.9	14.5	8.3 7.6	10.7 10.3
3	5.5	.7 1.2	2.8	13.1	2.2	6.3 6.8	12.8	7.7	9.6 9.8	16.1 14.5	7.0	9.6
4	6.5	1.6	3.5	12.9	2.3	6.9	12.3	8.0	9.7	15.1	7.2	10.5
5	5.3	2.2	3.4	11.2	3.0	6.7	12.9	7.8	9.6	14.9	6.9	10.3
6	4.8	1.7	3.1	12.8	2.5	7.0	12.7	5.7	8.5	14.2	7.4	10.2
7	5.6	2.3	3.4	8.8	3.6	5.9	14.1	6.7	9.5	16.8	6.6	11.1
8 9	4.2 3.9	1.8 1.6	2.8	10.2 10.8	2.9 3.4	6.3 6.5	$14.2 \\ 14.7$	6.5 4.2	10.2 8.8	17.4 13.3	7.1 8.0	11.2 10.2
10	6.0	2.4	3.7	11.9	3.5	7.8	13.5	6.4	8.9	17.4	7.2	10.9
11	7.5	1.2	3.9	10.1	5.8	7.8	12.7	6.9	9.4	15.6	7.4	10.3
12	7.8	1.1	3.9	14.8	5.0	8.7	16.0	5.0	9.9	16.6	7.1	10.7
13	7.0	1.8	4.1	15.1	3.5	8.5	16.6	4.4	9.1	14.0	6.5	9.4
14 15	8.4 9.2	1.4 .9	4.3 4.1	16.8 16.5	3.8 4.6	9.3 9.2	15.4 17.8	3.8 3.2	8.0 9.2	15.6 14.2	6.7 6.5	10.1 9.0
16 17	6.4 8.9	.3 3.0	3.2 5.4	11.5 10.8	4.9 4.9	8.3 7.6	16.9 15.8	3.8 6.1	9.3 9.9	14.8 14.0	6.7 4.6	9.6 8.5
18	11.0	2.9	6.0	8.5	4.7	6.5	14.8	7.3	9.6	15.4	7.2	10.0
19	10.1	2.7	5.6	13.0	5.1	8.4	16.5	5.8	9.8	15.0	6.8	9.9
20	10.4	2.2	5.8	11.8	6.0	8.8	17.0	6.3	10.6	11.5	5.1	8.7
21	11.0	2.8	6.3	13.3	6.6	8.8	16.4	6.9	10.2	7.0	2.1	4.8
22 23	10.9 11.3	3.7 4.1	6.8 6.9	10.4 10.8	5.7 5.9	8.0 8.4	14.9 16.1	7.5 6.6	9.9 9.7	8.2 11.2	3.2 3.0	5.3 6.3
24	11.6	2.6	6.3	16.1	5.4	10.4	13.6	6.2	9.7	13.4	3.4	7.2
25	11.2	2.4	6.4	15.2	6.5	10.5	13.4	7.5	10.1	13.6	3.6	7.8
26	8.4	3.3	5.6	13.9	6.3	9.2	17.7	7.9	11.6	13.3	5.8	8.2
27	10.5	3.2	6.4	15.1	6.9	10.1	18.2	7.3	11.9	14.8	5.3	9.0
28 29	11.0 11.8	3.5 3.4	6.5 6.9	13.5 11.2	7.6 7.5	9.6 9.1	17.6 16.5	7.8 8.7	11.8 11.3	14.0 14.3	4.1 5.1	7.9 8.5
30	11.8	3.4	7.0	13.0	7.5	9.1	13.8	8.7	10.4	14.3	3.9	7.9
31				14.6	7.0	10.1	14.5	8.2	10.4			
MONTH	11.9	.3	4.7	16.8	1.6	8.2	18.2	3.2	9.9	17.4	2.1	9.1

## 08235290 WIGHTMAN FORK AT MOUTH NEAR JASPER, CO

LOCATION.--Lat 37°24'14", long 106°31'16", in SE¹/4SW¹/4 sec.35, T.37 N., R.4 E., Rio Grande County, Hydrologic Unit 13010002, on right bank 25 ft downstream from bridge on Forest Development Road No. 250, about 300 ft upstream from mouth of Alamosa River, and 4.3 mi southwest of Jasper.

DRAINAGE AREA.--16.1 mi².

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD .-- July 1995 to current year (seasonal records only).

GAGE.--Water-stage recorder with satellite telemetry, and crest-stage gage. Elevation of gage is 9,420 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor . Flow partially regulated by releases from Summitville Mine upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge during period of seasonal operation, 431 ft³/s, June 1, 1997, gage height, 5.47 ft, from rating curve extended above 300 ft³/s; minimum daily, 1.2 ft³/s, Aug. 19, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 431 ft³/s, June 1, gage height, 5.47 ft; from rating curve extended above 300 ft³/s; minimum daily, 3.0 ft³/s (estimated), Oct. 2.

			DISCHA	ARGE, CUBI	C FEET PEI		WATER YEA MEAN VAL		1996 TO SE	EPTEMBER 1	997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1						e5.0	17	218	25	13	12
2	e3.0						e5.0	15	201	22	13	11
3							e6.0	15	179	20	12	15
4							e6.0	20	192	19	16	13
5							e5.0	34	160	18	25	11
6							e5.0	53	126	17	27	11
7							e4.0	54	124	16	33	9.6
8							e4.0	52	95	14	22	8.7
9							e5.0	50	74	14	13	9.5
10							e5.0	39	72	15	28	9.2
11							e6.0	41	77	16	24	8.2
12							e6.0	57	82	14	17	8.3
13							e5.0	91	77	13	12	7.7
14							e5.0	118	73	11	11	7.6
15							e7.0	141	71	11	9.7	6.6
16							e8.0	159	102	10	9.1	9.0
17							10	163	89	9.3	9.7	6.5
18						e4.0	14	179	76	11	11	5.5
19						e5.0	21	170	71	12	11	6.3
20						e5.0	29	173	68	12	9.3	6.7
21						e5.0	40	150	57	13	9.0	41
22						e5.0	42	133	51	12	10	33
23						e6.0	33	139	49	15	11	20
24						e7.0	23	120	40	12	12	15
25						e8.0	19	95	40	10	12	13
26						e12	14	87	37	11	25	12
27						e10	15	81	35	15	12	11
28						e9.0	18	97	33	18	9.8	9.9
29						e8.0	18	129	31	14	9.0	9.1
30						e7.0	17	200	28	20	11	8.5
31						e6.0		195		22	12	
TOTAL							400.0	3067	2628	461.3	458.6	354.9
MEAN							13.3	98.9	87.6	14.9	14.8	11.8
MAX							42	200	218	25	33	41
MIN							4.0	15	28	9.3	9.0	5.5
AC-FT							793	6080	5210	915	910	704

e-Estimated.

## 08235290 WIGHTMAN FORK AT MOUTH NEAR JASPER, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1995 to current year (seasonal only).

PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: July 1995 to current year (seasonal only).

WATER TEMPERATURE: July 1995 to current year (seasonal only).

pH: July 1995 to current year (seasonal only).

INSTRUMENTATION.--Water-quailty monitor with satellite telemetry since July 1995.

REMARKS.--Records for specific conductance are fair except for Apr. 1 to June 30, July 29 to Aug. 21, which are poor. Records for pH are fair. Records for water temperature are good. Daily data that are not published during seasonal operation (Oct. 1-2). and Mar. 18 to Sept. 30) are either missing or of unacceptable quality.

## EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 1,820 microsiemens, Sept. 27, 1996; minimum, 98 microsiemens May 6, 1996.

pH: Maximum, 7.6 units, several days in 1997; minimum, 3.1 units, Aug. 18-19, 1995. WATER TEMPERATURE: Maximum, 18.0°C, July 15, 1996; minimum, 0.0°C, many days.

## EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 1,730 microsiemens, Oct. 2; minimum, 101 microsiemens May 19.

pH: Maximum, 7.6 units, several days; minimum, 3.2 units, Aug. 11-12.

WATER TEMPERATURE: Maximum, 16.4°C, July 24; minimum, 0.0°C, many days.

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	VEMBER		DE	CEMBER			JANUARY	
1	1720	1600	1700									
2	1730	1040	1570									
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
1.0												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MONTH												

# 08235290 WIGHTMAN FORK AT MOUTH NEAR JASPER, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1							251	243	248	249	230	236
2							264	248	258	251	125	218
3 4							272 281	264 272	269 276	256 231	226 190	242 218
5							281	264	272	198	158	185
6							290	252	270	171	154	160
7							295	233	267	175	156	166
8 9							321 324	283 304	304 317	176 224	156 156	165 186
10							330	321	328	230	193	218
11							354	325	336	193	173	185
12							363	299	328	180	157	168
13 14							370 380	292 280	328 329	195 217	146 160	170 179
15							964	294	589	534	119	240
16							1180	683	1040	448	303	372
17							683	439	551	311	179	247
18 19				375 362	359 313	370 347	439 378	366 314	416 357	198 335	104 101	152 209
20				314	267	297	417	315	375	344	229	299
21				277	250	267	560	331	446	277	146	214
22				258	250	253	384	286	339	219	176	195
23 24				259 254	247 245	254 249	286 308	275 275	281 289	257 310	210 216	229 253
25				267	245	258	347	308	332	343	255	318
26				272	252	262	353	340	346	378	287	318
27				259	232	249	357	281	336	395	260	333
28 29				255 247	243 237	250 246	317 302	243 245	292 282	307 270	239 168	282 226
30				253	234	246	296	215	279	364	174	240
31				249	236	243				461	212	339
MONTH							1180	215	356	534	101	231
		JUNE			JULY		1	AUGUST		:	SEPTEMBE	R
1	250		212	407		451			604			
1 2	259 290	166	212 225	487 508	397	451 474	744 809	632	694 749	821 976	662	756
2 3	290 352	166 185 228	225 300	508 519	397 359 349	474 461	744 809 815	632 694 697	749 755	821 976 990	662 765 580	756 850 705
2 3 4	290 352 301	166 185 228 229	225 300 268	508 519 557	397 359 349 477	474 461 520	744 809 815 779	632 694 697 580	749 755 723	821 976 990 	662 765 580 588	756 850 705
2 3 4 5	290 352 301 320	166 185 228 229 213	225 300 268 268	508 519 557 548	397 359 349 477 389	474 461 520 493	744 809 815 779 632	632 694 697 580 475	749 755 723 555	821 976 990 	662 765 580 588	756 850 705 
2 3 4 5	290 352 301 320 261	166 185 228 229 213	225 300 268 268 240	508 519 557 548	397 359 349 477 389	474 461 520 493	744 809 815 779 632	632 694 697 580 475	749 755 723 555	821 976 990 	662 765 580 588 	756 850 705 
2 3 4 5	290 352 301 320 261 290	166 185 228 229 213 218 239	225 300 268 268 240 265	508 519 557 548 593 602	397 359 349 477 389 524 417	474 461 520 493 556 558	744 809 815 779 632	632 694 697 580 475 289 305	749 755 723 555	821 976 990 	662 765 580 588	756 850 705 
2 3 4 5 6 7 8 9	290 352 301 320 261 290 331 385	166 185 228 229 213 218 239 269 299	225 300 268 268 240 265 303 351	508 519 557 548 593 602 628 641	397 359 349 477 389 524 417 443 457	474 461 520 493 556 558 558 580	744 809 815 779 632 700 821 964 535	632 694 697 580 475 289 305 529 350	749 755 723 555 577 556 875 394	821 976 990  	662 765 580 588 	756 850 705  
2 3 4 5 6 7 8	290 352 301 320 261 290 331	166 185 228 229 213 218 239 269	225 300 268 268 240 265 303	508 519 557 548 593 602 628	397 359 349 477 389 524 417 443	474 461 520 493 556 558 558	744 809 815 779 632 700 821 964	632 694 697 580 475 289 305 529	749 755 723 555 577 556 875	821 976 990  	662 765 580 588 	756 850 705  
2 3 4 5 6 7 8 9 10	290 352 301 320 261 290 331 385 427	166 185 228 229 213 218 239 269 299 279	225 300 268 268 240 265 303 351 373 272	508 519 557 548 593 602 628 641 842 923	397 359 349 477 389 524 417 443 457 629	474 461 520 493 556 558 558 580 711 867	744 809 815 779 632 700 821 964 535 647	632 694 697 580 475 289 305 529 350 340	749 755 723 555 577 556 875 394 462	821 976 990    964	662 765 580 588   839 771	756 850 705    913
2 3 4 5 6 7 8 9 10	290 352 301 320 261 290 331 385 427 325 255	166 185 228 229 213 218 239 269 299 279	225 300 268 268 240 265 303 351 373 272 230	508 519 557 548 593 602 628 641 842 923 947	397 359 349 477 389 524 417 443 457 629 808 528	474 461 520 493 556 558 558 5711 867 822	744 809 815 779 632 700 821 964 535 647 915 916	632 694 697 580 475 289 305 529 350 340 600 427	749 755 723 555 577 556 875 394 462 803 713	821 976 990   964 1040 1050	662 765 580 588   839 771 956 958	756 850 705   913 1020 1010
2 3 4 5 6 7 8 9 10	290 352 301 320 261 290 331 385 427	166 185 228 229 213 218 239 269 299 279	225 300 268 268 240 265 303 351 373 272	508 519 557 548 593 602 628 641 842 923	397 359 349 477 389 524 417 443 457 629	474 461 520 493 556 558 558 580 711 867	744 809 815 779 632 700 821 964 535 647	632 694 697 580 475 289 305 529 350 340	749 755 723 555 577 556 875 394 462	821 976 990    964	662 765 580 588   839 771	756 850 705    913
2 3 4 5 6 7 8 9 10 11 12 13	290 352 301 320 261 290 331 385 427 325 255 239	166 185 228 229 213 218 239 269 299 279 218 210 211	225 300 268 268 240 265 303 351 373 272 230 222	508 519 557 548 593 602 628 641 842 923 947 759	397 359 349 477 389 524 417 443 457 629 808 528 625	474 461 520 493 556 558 558 580 711 867 822 706	744 809 815 779 632 700 821 964 535 647 915 916 482	632 694 697 580 475 289 305 529 350 340 600 427 404	749 755 723 555 577 556 875 394 462 803 713 428	821 976 990   964 1040 1050 1100	662 765 580 588  839 771 956 958	756 850 705   913 1020 1010 1070
2 3 4 5 6 7 8 9 10 11 12 13 14 15	290 352 301 320 261 290 331 385 427 325 255 239 253 236	166 185 228 229 213 218 239 269 299 279 218 210 211 211 166	225 300 268 268 240 265 303 351 373 272 230 222 235 209	508 519 557 548 593 602 628 641 842 923 947 759 729 798	397 359 349 477 389 524 417 443 457 629 808 528 625 554 687	474 461 520 493 556 558 558 580 711 867 822 706 662 742	744 809 815 779 632 700 821 964 535 647 915 916 482 770 414	632 694 697 580 475 289 305 529 350 340 600 427 404 393 397	749 755 723 555 577 556 875 394 462 803 713 428 431 406	821 976 990   964 1040 1050 1100 970	662 765 580 588  839 771 956 958 1010 978 620	756 850 705 913 1020 1010 1070 1030 1030
2 3 4 5 6 7 8 9 10 11 12 13 14 15	290 352 301 320 261 290 331 385 427 325 255 239 253 236 455 578	166 185 228 229 213 218 239 269 299 279 218 210 211 211 166	225 300 268 268 268 240 265 303 351 373 272 230 222 235 209	508 519 557 548 593 602 628 641 842 923 947 759 729 798	397 359 349 477 389 524 417 443 457 629 808 528 625 554 687	474 461 520 493 556 558 580 711 867 822 706 662 742 747	744 809 815 779 632 700 821 964 535 647 915 916 482 770 414 814 875	632 694 697 580 475 289 305 529 350 340 600 427 404 393 397	749 755 723 555 577 556 875 394 462 803 713 428 431 406 461 824	821 976 990   964 1040 1050 1100 1060 1100 970 1000	662 765 580 588  839 771 956 958 1010 978 620 550 924	756 850 705 913 1020 1010 1070 1030 1030 833 971
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	290 352 301 320 261 290 331 385 427 325 255 239 253 253 455 578 449	166 185 228 229 213 218 239 269 279 279 211 211 211 166	225 300 268 268 240 265 303 351 373 272 230 222 235 209 272 457 384	508 519 557 548 593 602 628 641 842 923 947 759 729 798	397 359 349 477 389 524 417 443 457 629 808 528 625 554 687	474 461 520 493 556 558 558 711 867 822 706 662 742 747 729 865	744 809 815 779 632 700 821 964 535 647 915 916 482 770 414 814 875 898	632 694 697 580 475 289 305 529 350 340 600 427 404 393 397 406 787 798	749 755 723 555 577 556 875 394 462 803 713 428 431 406 461 824 861	821 976 990   964 1040 1050 1100 1060 1100 970 1000 1040	662 765 580 588  839 771 956 958 1010 978 620 550 924 604	756 850 705   913 1020 1010 1070 1030 1030
2 3 4 5 6 7 8 9 10 11 12 13 14 15	290 352 301 320 261 290 331 385 427 325 255 239 253 236 455 578	166 185 228 229 213 218 239 269 299 279 218 210 211 211 166	225 300 268 268 268 240 265 303 351 373 272 230 222 235 209	508 519 557 548 593 602 628 641 842 923 947 759 729 798	397 359 349 477 389 524 417 443 457 629 808 528 625 554 687	474 461 520 493 556 558 580 711 867 822 706 662 742 747	744 809 815 779 632 700 821 964 535 647 915 916 482 770 414 814 875	632 694 697 580 475 289 305 529 350 340 600 427 404 393 397	749 755 723 555 577 556 875 394 462 803 713 428 431 406 461 824	821 976 990   964 1040 1050 1100 1060 1100 970 1000	662 765 580 588  839 771 956 958 1010 978 620 550 924	756 850 705 913 1020 1010 1070 1030 1030 833 971
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	290 352 301 320 261 290 331 385 427 325 255 239 253 236 455 578 449 300 408	166 185 228 229 213 218 239 269 299 279 218 210 211 211 166 161 362 278 253 272	225 300 268 268 240 265 303 351 373 272 230 222 235 209 272 457 384 279 334	508 519 557 548 593 602 628 641 842 923 947 759 729 798 799 999 903 907	397 359 349 477 389 524 417 443 457 629 808 528 625 554 687 507 603 778 854 682 782	474 461 520 493 556 558 558 580 711 867 822 706 662 742 747 729 865 880 849	744 809 815 779 632 700 821 964 535 647 915 916 482 770 414 814 875 898 939 954	632 694 697 580 475 289 305 529 350 340 600 427 404 393 397 406 787 798 775 887	749 755 723 555 577 556 875 394 462 803 713 428 431 406 461 824 861 859 925 891	821 976 990   964 1040 1050 1100 1060 1100 970 1000 1040 1160 1190 1090	662 765 580 588  839 771 956 958 1010 978 620 550 924 604 605 1030	756 850 705 913 1020 1010 1070 1030 1030 833 971 949 1030 1140
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	290 352 301 320 261 290 331 385 427 325 255 239 253 236 449 300 408 523 582	166 185 228 229 213 218 239 269 299 279 218 210 211 211 166 161 362 278 253 272	225 300 268 268 268 240 265 303 351 373 272 230 222 235 209 272 457 384 279 334 458 538	508 519 557 548 593 602 628 641 842 923 947 759 729 798 799 989 903 907	397 359 349 477 389 524 417 443 457 629 808 528 625 554 687 507 603 778 854 682	474 461 520 493 556 558 580 711 867 822 706 662 742 747 729 865 880 849	744 809 815 779 632 700 821 964 535 647 915 916 482 770 414 814 875 898 939 954	632 694 697 580 475 289 305 529 350 340 600 427 404 393 397 406 787 798 775 887	749 755 723 555 577 556 875 394 462 803 713 428 431 406 461 824 861 859 925 891 842	821 976 990   964 1040 1050 1100 970 1000 1040 1160 1190 1090 514	662 765 580 588  839 771 956 958 1010 978 620 550 924 604 605 1030	756 850 705 913 1020 1010 1070 1030 1030 833 971 949 1030 1140 550 421
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	290 352 301 320 261 290 331 385 427 325 255 239 253 236 455 578 449 300 408	166 185 228 229 213 218 239 269 299 279 218 210 211 211 166 161 362 278 253 272	225 300 268 268 240 265 303 351 373 272 230 222 235 209 272 457 384 279 334	508 519 557 548 593 602 628 641 842 923 947 759 729 798 799 999 903 907	397 359 349 477 389 524 417 443 457 629 808 528 625 554 687 507 603 778 854 682 782	474 461 520 493 556 558 558 580 711 867 822 706 662 742 747 729 865 880 849	744 809 815 779 632 700 821 964 535 647 915 916 482 770 414 814 875 898 939 954	632 694 697 580 475 289 305 529 350 340 600 427 404 393 397 406 787 798 775 887	749 755 723 555 577 556 875 394 462 803 713 428 431 406 461 824 861 859 925 891	821 976 990   964 1040 1050 1100 1060 1100 970 1000 1040 1160 1190 1090	662 765 580 588  839 771 956 958 1010 978 620 550 924 604 605 1030	756 850 705 913 1020 1010 1070 1030 1030 833 971 949 1030 1140
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	290 352 301 320 261 290 331 385 427 325 255 239 253 236 455 578 449 300 408 523 570	166 185 228 229 213 218 239 269 279 279 218 210 211 211 166 161 362 278 253 272	225 300 268 268 268 240 265 303 351 373 272 230 222 235 209 272 457 384 279 334 458 538 498	508 519 557 548 593 602 628 641 842 923 947 759 729 798 799 989 903 907	397 359 349 477 389 524 417 443 457 629 808 528 625 554 687 507 603 778 854 682 782 778	474 461 520 493 556 558 558 711 867 822 706 662 742 747 729 865 880 849 826 851 860	744 809 815 779 632 700 821 964 535 647 916 482 770 414 814 875 898 939 954	632 694 697 580 475 289 350 340 6427 404 393 397 406 787 798 775 887 704 635	749 755 723 555 577 556 875 394 462 803 713 428 431 406 461 824 861 859 925 891 842 839	821 976 990   964 1040 1050 1100 1060 1100 970 1000 1040 1160 1190 1090 514 561	662 765 580 588  839 771 956 958 1010 978 620 550 924 604 605 1030	756 850 705 913 1020 1010 1070 1030 1030 833 971 949 1030 1140 550 421 506
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	290 352 301 320 261 290 331 385 427 325 255 239 253 236 455 578 449 300 408 523 582 570 389 352	166 185 228 229 213 218 239 269 299 279 218 210 211 211 166 161 362 278 253 272 374 510 355 261 278	225 300 268 268 240 265 303 351 373 272 230 222 235 209 272 457 384 279 334 458 538 498 330 305	508 519 557 548 593 602 628 641 842 923 947 759 729 798 799 989 903 907 866 915 948 834 1130	397 359 349 477 389 524 417 443 457 629 808 528 625 554 687 507 677 8854 682 782 778 693 675 761	474 461 520 493 556 558 558 711 867 822 706 662 742 747 729 865 880 849 826 851 860 767 984	744 809 815 779 632 700 821 964 535 647 915 916 482 770 414 814 875 898 939 954 922 962 847 812 702	632 694 697 580 475 289 305 529 350 340 600 427 404 393 397 406 787 788 775 887 865 476 560 289	749 755 723 555 577 556 875 394 462 803 713 428 431 406 461 824 861 859 925 891 842 843 749 741 436	821 976 990  990  964 1040 1050 1100 1060 1100 970 1000 1040 1160 1190 1190 1090 514 561 704 761	662 765 580 588  839 771 956 958 1010 978 620 550 924 604 605 1030 312 333 435 561 704 761	756 850 705 913 1020 1010 1070 1030 1030 833 971 949 1030 1140 550 421 506 630 733 771
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	290 352 301 320 261 290 331 385 427 325 255 239 253 236 455 578 449 300 408 523 582 570 382 570 382 570 475	166 185 228 229 213 218 239 269 299 279 218 210 211 211 166 161 362 278 253 272 374 510 355 261 278	225 300 268 268 268 240 265 303 351 373 272 230 222 235 209 272 457 384 279 334 458 538 498 330 305	508 519 557 548 593 602 628 641 842 923 947 759 799 799 989 903 907 866 915 948 834 1130	397 359 349 477 389 524 417 443 457 629 808 528 525 554 687 507 603 778 854 682 7781 693 675 761 626	474 461 520 493 556 558 580 711 867 822 706 662 742 747 729 865 880 849 826 767 984	744 809 815 779 632 700 821 964 535 647 915 916 482 770 414 875 898 939 954 922 962 822 962 812 702 745	632 694 697 580 475 289 350 340 600 427 404 393 397 406 787 798 775 887 865 704 635 476 560 289 591	749 755 723 555 577 556 875 394 462 803 713 428 431 406 461 824 861 859 925 891 842 839 741 436 672	821 976 990   964 1040 1050 1100 1060 1100 970 1000 1040 1160 1190 1090 514 561 704 761	662 765 580 588  839 771 956 958 1010 978 620 550 924 605 1030 312 333 435 561 704	756 850 705 913 1020 1010 1070 1030 1030 833 971 949 1030 1140 550 421 506 630 733 771 796
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	290 352 301 320 261 290 331 385 427 325 255 239 253 236 455 578 449 300 408 523 582 570 389 352	166 185 228 229 213 218 239 269 299 279 218 210 211 211 166 161 362 278 253 272 374 510 355 261 278	225 300 268 268 240 265 303 351 373 272 230 222 235 209 272 457 384 279 334 458 538 498 330 305	508 519 557 548 593 602 628 641 842 923 947 759 729 798 799 989 903 907 866 915 948 834 1130	397 359 349 477 389 524 417 443 457 629 808 528 625 554 687 507 677 8854 682 782 778 693 675 761	474 461 520 493 556 558 558 711 867 822 706 662 742 747 729 865 880 849 826 851 860 767 984	744 809 815 779 632 700 821 964 535 647 915 916 482 770 414 814 875 898 939 954 922 962 847 812 702	632 694 697 580 475 289 305 529 350 340 600 427 404 393 397 406 787 788 775 887 865 476 560 289	749 755 723 555 577 556 875 394 462 803 713 428 431 406 461 824 861 859 925 891 842 843 749 741 436	821 976 990  990  964 1040 1050 1100 1060 1100 970 1000 1040 1160 1190 1190 1090 514 561 704 761	662 765 580 588  839 771 956 958 1010 978 620 550 924 604 605 1030 312 333 435 561 704 761	756 850 705 913 1020 1010 1070 1030 1030 833 971 949 1030 1140 550 421 506 630 733 771
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	290 352 301 320 261 290 331 385 427 325 255 239 253 236 455 578 449 300 408 523 582 570 382 570 382 570 382 570 382 570 382 570 382 570 382 570 382 570 382 570 382 570 570 570 570 570 570 570 570 570 570	166 185 228 229 213 218 239 269 299 279 218 210 211 211 166 161 362 278 253 272 374 510 355 261 278 340 419 397 456 387	225 300 268 268 268 240 265 303 351 373 272 230 222 235 209 272 457 384 279 334 458 538 498 330 305	508 519 557 548 593 602 628 641 842 923 947 759 799 799 989 903 907 866 915 948 834 1130	397 359 349 477 389 524 417 443 457 629 808 528 554 687 507 603 854 682 778 693 675 761 626 7526 7519	474 461 520 493 556 558 558 580 711 867 822 706 662 742 747 729 865 880 849 826 851 860 767 984 907 759 675 784 644	744 809 815 779 632 700 821 964 535 647 915 916 482 770 414 814 875 898 939 954 922 962 847 812 702 745 827 886 886	632 694 697 580 475 289 3529 350 340 600 427 424 393 397 406 787 775 887 865 4760 289 591 545 627	749 755 723 555 577 556 875 394 462 803 713 428 431 406 461 824 861 859 925 891 842 839 741 436 672 778 849 847	821 976 990  990  964 1040 1050 1100 1060 1100 970 1000 1040 1160 1190 1190 1190 1090 514 561 704 761 787 825 847 825 847 886 900	662 765 580 588  839 771 956 958 1010 978 620 550 924 605 1030 312 333 435 561 704 761 787 815 435 739	756 850 705 913 1020 1010 1030 1030 833 971 949 1030 1140 550 421 506 630 733 771 796 839 763 878
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	290 352 301 320 261 290 331 385 427 325 255 239 253 263 455 578 449 300 408 523 582 570 389 352 419 475 509 535	166 185 228 229 213 218 239 269 299 279 218 210 211 211 166 161 362 278 253 272 374 510 355 261 278	225 300 268 268 268 240 265 303 351 373 272 230 222 235 209 272 457 384 279 334 458 538 498 330 305	508 519 557 548 593 602 628 641 842 923 947 759 729 798 799 903 907 866 915 948 834 1130 930 863 755 860	397 359 349 477 389 524 417 443 457 629 808 528 625 554 687 507 603 778 854 682 778 693 675 761 693 675 761 626 5726	474 461 520 493 556 558 558 711 867 822 706 662 742 747 729 865 880 849 826 851 860 767 984	744 809 815 779 632 700 821 964 535 647 915 916 482 770 414 814 875 898 939 954 922 962 847 812 702 745 818	632 694 697 580 475 289 350 340 600 427 404 393 397 406 787 798 775 887 865 476 560 289 1745 827	749 755 723 555 577 556 875 394 462 803 713 428 431 406 461 824 861 859 925 891 842 839 749 741 436 672 778 849	821 976 990  990  964 1040 1050 1100 1060 1100 970 1000 1040 1160 1190 1160 1190 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 10	662 765 580 588  839 771 956 978 620 550 924 604 605 1030 312 333 435 561 704 761 787 815 435	756 850 705 913 1020 1010 1070 1030 1030 833 971 949 1030 1140 550 421 506 630 733 771 796 839 763

## RIO GRANDE BASIN

# 08235290 WIGHTMAN FORK AT MOUTH NEAR JASPER, CO--Continued

pH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DIII	111111				OVEMBER	PILLIN			1111111	111111		
		OCTOBER						ECEMBER			JANUARY	
1 2	6.2 6.4	6.0 5.8	6.1 6.1									
3												
4 5												
6												
7 8												
9												
10												
11												
12 13												
14												
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16												
17 18												
19												
20												
21												
22 23												
24												
25												
26												
27 28												
29												
30 31												
MONTH												
	:	FEBRUARY			MARCH			APRIL			MAY	
1		FEBRUARY			MARCH		7.6	APRIL 7.5	7.6	7.1	MAY 6.3	6.8
2							7.6	7.5 7.5	7.5	7.1	6.3 7.0	7.1
								7.5			6.3	7.1 7.1
2 3							7.6 7.5	7.5 7.5 7.5	7.5 7.5	7.1 7.2	6.3 7.0 7.1	7.1
2 3 4 5							7.6 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.4	7.5 7.5 7.5 7.5	7.1 7.2 7.3 7.4	6.3 7.0 7.1 7.2 7.3	7.1 7.1 7.3 7.3
2 3 4 5 6 7							7.6 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.4 7.4 7.3	7.5 7.5 7.5 7.5 7.4 7.4	7.1 7.2 7.3 7.4 7.3 7.2	6.3 7.0 7.1 7.2 7.3 7.2 7.0	7.1 7.1 7.3 7.3 7.3
2 3 4 5 6 7 8 9			==== ==== ==== ====	=== === === ===		==== ==== ==== ====	7.6 7.5 7.5 7.5 7.5 7.4 7.4 7.4	7.5 7.5 7.5 7.5 7.4 7.4 7.3 7.3	7.5 7.5 7.5 7.5 7.4 7.4 7.3 7.4	7.1 7.2 7.3 7.4 7.3 7.2 7.0 6.9	6.3 7.0 7.1 7.2 7.3 7.2 7.0 6.9 5.8	7.1 7.3 7.3 7.3 7.1 7.0 6.5
2 3 4 5 6 7 8							7.6 7.5 7.5 7.5 7.5 7.4 7.4	7.5 7.5 7.5 7.5 7.4 7.4 7.3 7.3	7.5 7.5 7.5 7.5 7.4 7.4 7.3	7.1 7.2 7.3 7.4 7.3 7.2 7.0	6.3 7.0 7.1 7.2 7.3 7.2 7.0 6.9	7.1 7.3 7.3 7.3 7.1 7.0
2 3 4 5 6 7 8 9 10						==== ==== ==== ====	7.6 7.5 7.5 7.5 7.4 7.4 7.4 7.4	7.5 7.5 7.5 7.5 7.4 7.4 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.4 7.4 7.3 7.4 7.4	7.1 7.2 7.3 7.4 7.3 7.2 7.0 6.9 5.8	6.3 7.0 7.1 7.2 7.3 7.2 7.0 6.9 5.8 5.4	7.1 7.3 7.3 7.3 7.1 7.0 6.5 5.5
2 3 4 5 6 7 8 9						==== ==== ==== ====	7.6 7.5 7.5 7.5 7.4 7.4 7.4 7.4	7.5 7.5 7.5 7.5 7.4 7.4 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.4 7.4 7.4 7.4 7.2	7.1 7.2 7.3 7.4 7.3 7.2 7.0 6.9 5.8	6.3 7.0 7.1 7.2 7.3 7.2 7.0 6.9 5.8 5.4	7.1 7.1 7.3 7.3 7.3 7.1 7.0 6.5 5.5
2 3 4 5 6 7 8 9 10 11 12 13 14							7.6 7.5 7.5 7.5 7.4 7.4 7.4 7.4 7.3 7.3	7.5 7.5 7.5 7.5 7.4 7.4 7.3 7.3 7.3 7.3 7.2 7.0 6.7	7.5 7.5 7.5 7.5 7.4 7.4 7.3 7.4 7.3 7.2 7.0 6.9	7.1 7.2 7.3 7.4 7.3 7.2 7.0 6.9 5.8 6.5 6.6 6.2 5.2	6.3 7.0 7.1 7.2 7.3 7.2 7.0 6.9 5.8 5.4 5.8 6.2 4.6	7.1 7.1 7.3 7.3 7.1 7.0 6.5 5.5 6.3 6.5 5.7
2 3 4 5 6 7 8 9 10 11 12 13				    			7.6 7.5 7.5 7.5 7.4 7.4 7.4 7.4 7.3	7.5 7.5 7.5 7.5 7.4 7.4 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5 7.4 7.4 7.3 7.4 7.3 7.2	7.1 7.2 7.3 7.4 7.3 7.2 7.0 6.9 5.8 6.5 6.6 6.2	6.3 7.0 7.1 7.2 7.3 7.2 7.0 6.9 5.8 5.4	7.1 7.1 7.3 7.3 7.3 7.1 7.0 6.5 5.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15							7.6 7.5 7.5 7.5 7.4 7.4 7.4 7.3 7.3 7.1 7.1	7.5 7.5 7.5 7.5 7.4 7.4 7.3 7.3 7.3 7.3 7.2 6.7 4.7	7.5 7.5 7.5 7.5 7.4 7.4 7.3 7.4 7.3 7.2 7.0 6.9 5.8 4.7	7.1 7.2 7.3 7.4 7.3 7.2 7.0 6.9 5.8 6.5 6.2 5.2 4.9	6.3 7.0 7.1 7.2 7.3 7.2 7.0 6.9 5.8 5.4 5.8 6.2 4.6 3.8 3.8	7.1 7.3 7.3 7.3 7.1 7.0 6.5 5.5 6.3 6.5 5.7 4.9 4.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15							7.6 7.5 7.5 7.5 7.4 7.4 7.4 7.4 7.1 7.1 7.1 7.0	7.5 7.5 7.5 7.5 7.4 7.4 7.3 7.3 7.3 7.3 7.3 7.4 4.7	7.5 7.5 7.5 7.5 7.4 7.4 7.3 7.4 7.2 7.0 6.9 5.8	7.1 7.2 7.3 7.4 7.3 7.2 7.0 6.9 5.8 6.5 6.6 6.2 4.9	6.3 7.0 7.1 7.2 7.3 7.2 7.0 6.9 5.8 5.4 5.4 5.8 6.2 4.6 3.8	7.1 7.3 7.3 7.3 7.1 7.0 6.5 5.5 6.5 5.7 4.9 4.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18				       7.4	        7.2	      7.3	7.6 7.5 7.5 7.5 7.4 7.4 7.4 7.3 7.1 7.0 4.8 9.6 6.5	7.5 7.5 7.5 7.5 7.4 7.3 7.3 7.3 7.3 7.2 6.7 4.5 4.8 5.9 6.3	7.5 7.5 7.5 7.4 7.4 7.3 7.4 7.3 7.2 7.0 6.9 5.8 4.7 5.1 6.4	7.1 7.2 7.3 7.4 7.3 7.2 7.0 6.9 5.8 6.5 6.2 5.2 4.9 4.0 4.4 4.9 5.1	6.3 7.0 7.1 7.2 7.3 7.2 7.0 6.9 5.8 5.4 5.8 6.2 4.6 3.8 4.0 4.0	7.1 7.3 7.3 7.3 7.1 7.0 6.5 5.5 6.3 6.5,7 4.9 4.5 3.9 4.2 4.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18				       7.4 7.5	      7.2	      7.3 7.4 7.4	7.6 7.5 7.5 7.5 7.4 7.4 7.4 7.4 7.3 7.1 7.1 7.0 4.8 5.9 6.4 6.5	7.5 7.5 7.5 7.4 7.3 7.3 7.3 7.3 7.0 6.7 4.7 4.5 85.9	7.5 7.5 7.5 7.5 7.4 7.4 7.3 7.4 7.3 7.4 7.3 7.2 7.0 6.9 5.8 4.7 5.1	7.1 7.2 7.3 7.4 7.3 7.2 7.0 6.9 5.8 6.6 6.2 5.2 4.9 4.0 4.4	6.3 7.0 7.1 7.2 7.3 7.2 7.0 6.9 5.8 5.4 5.2 4.6 3.8 3.8 4.4	7.1 7.3 7.3 7.3 7.1 7.0 6.5 5.5 6.3 6.5 5.7 4.9 4.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 17 18 19 20 21				       7.4 7.5 7.5	       7.2 7.4 7.4	       7.3 7.4 7.4	7.6 7.5 7.5 7.5 7.4 7.4 7.4 7.3 7.1 7.1 7.0 4.8 5.9 6.5 6.5	7.5 7.5 7.5 7.5 7.4 7.3 7.3 7.3 7.3 7.2 7.9 6.7 4.5 8.9 6.3 4.5 5.4	7.5 7.5 7.5 7.5 7.4 7.4 7.3 7.4 7.3 7.2 7.0 6.9 5.8 4.7 5.1 6.4 5.8	7.1 7.2 7.3 7.4 7.3 7.2 7.0 6.9 5.8 6.5 6.6 6.2 5.2 4.9 4.4 4.4 4.9 5.1 4.2	6.3 7.0 7.1 7.2 7.3 7.2 7.0 6.9 5.8 5.4 5.2 4.6 3.8 4.0 4.0 3.9 4.1	7.1 7.3 7.3 7.3 7.1 7.0 6.5 5.5 6.3 6.5 5.7 4.9 4.5 3.9 4.2 4.7 4.6 4.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23				      7.4 7.5 7.5 7.5	       7.2 7.4 7.4 7.5 7.5	      7.3 7.4 7.5 7.5	7.6 7.5 7.5 7.5 7.4 7.4 7.4 7.1 7.1 7.1 4.8 9.6.4 6.5 5.5 5.4	7.55 7.55 7.55 7.4 7.33 7.33 7.33 7.33 7.00 6.77 4.58 9.34 5.01 5.3	7.5 7.5 7.5 7.4 7.4 7.3 7.4 7.3 7.4 7.3 7.2 7.0 6.9 5.8 4.7 5.1 6.2 6.4 5.8	7.1 7.2 7.3 7.4 7.3 7.2 7.0 6.9 5.8 6.6 6.2 5.2 4.9 4.0 4.4 4.9 5.1	6.3 7.0 7.1 7.2 7.3 7.2 7.0 6.9 5.8 5.4 5.2 4.6 3.8 4.0 4.4 4.0 3.9	7.1 7.3 7.3 7.3 7.1 7.0 6.5 5.5 6.3 6.5 5.7 4.9 4.7 4.6 4.0 4.5 4.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24				       7.4 7.5 7.5 7.5 7.5	        7.2 7.4 7.4 7.5 7.5	       7.3 7.4 7.5 7.5 7.5	7.6 7.5 7.5 7.5 7.4 7.4 7.4 7.3 7.1 7.0 4.8 5.9 6.5 6.5 5.3 5.3	7.55 7.55 7.57 7.4 7.33 7.3 7.3 7.3 7.09 6.7 4.5 8.9 6.3 4.5 5.1 5.1 5.2	7.5 7.5 7.5 7.5 7.4 7.4 7.3 7.4 7.3 7.4 7.3 7.0 6.9 5.8 4.7 5.1 6.4 5.8 5.2 5.3	7.1 7.2 7.3 7.4 7.3 7.2 7.0 6.9 5.8 6.5 6.6 6.2 5.2 4.9 4.0 4.4 4.9 5.1 4.7 4.7	6.3 7.0 7.1 7.2 7.3 7.0 6.9 5.8 5.4 5.2 4.6 3.8 4.0 4.0 3.9 4.1 4.6 4.1	7.1 7.3 7.3 7.3 7.3 7.0 6.5 5.5 6.3 6.5 5.7 4.9 4.5 4.7 4.6 4.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25				      7.4 7.5 7.5 7.5 7.5 7.5	       7.2 7.4 7.4 7.5 7.5 7.5	7.3 7.4 7.5 7.5 7.5	7.6 7.5 7.5 7.5 7.4 7.4 7.4 7.1 7.1 7.1 7.1 8.9 6.4 6.5 5.3 5.3 5.3	7.55 7.55 7.55 7.44 7.33 7.33 7.33 7.33 7.00 6.77 4.58 5.34 5.01 5.35 5.11	7.5 7.5 7.5 7.4 7.4 7.3 7.4 7.2 7.0 6.9 5.8 4.7 5.1 6.2 6.4 5.8 5.1 5.3 5.3	7.1 7.2 7.3 7.4 7.3 7.2 7.0 6.9 5.8 6.6 6.2 4.9 4.4 4.9 5.1 4.2 4.7 4.7 4.7 4.6 4.3	6.3 7.0 7.1 7.2 7.3 7.2 7.0 6.9 5.8 5.4 5.2 4.6 3.8 3.8 4.0 4.1 4.1 4.1	7.1 7.3 7.3 7.3 7.3 7.1 7.0 6.5 5.5 6.3 6.5 5.7 4.9 4.7 4.6 4.7 4.6 4.5 4.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26				        7.4 7.5 7.5 7.5 7.5 7.5	         7.2 7.4 7.4 7.5 7.5 7.5 7.5	        7.3 7.4 7.5 7.5 7.5 7.5	7.6 7.5 7.5 7.5 7.4 7.4 7.4 7.1 7.1 7.0 4.8 5.3 6.5 6.5 5.3 5.3 5.2 5.1	7.55 7.55 7.57 7.4 7.33 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.	7.5 7.5 7.5 7.5 7.4 7.4 7.3 7.4 7.3 7.4 7.3 7.2 7.0 6.9 5.8 4.7 5.1 5.2 6.4 5.8 5.2 5.3 5.1	7.1 7.2 7.3 7.4 7.3 7.2 7.0 6.9 5.8 6.6 6.2 5.2 4.9 4.0 4.9 5.1 4.7 4.7 4.7 4.6 4.3	6.3 7.0 7.1 7.2 7.3 7.2 7.0 6.9 5.8 5.4 5.2 4.6 3.8 4.0 4.0 3.9 4.1 4.6 4.1 4.1	7.1 7.3 7.3 7.3 7.3 7.0 6.5 5.5 6.3 6.5 5.7 4.9 4.5 4.7 4.6 4.0 4.5 4.7 4.6 4.5 4.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28				      7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5	       7.2 7.4 7.4 7.5 7.5 7.5 7.4	      7.3 7.4 7.5 7.5 7.5 7.5 7.5	7.6 7.5 7.5 7.5 7.4 7.4 7.4 7.1 7.1 7.1 7.1 8.9 6.4 6.5 5.3 5.3 5.1 5.1 6.1	7.55 7.55 7.55 7.54 7.33 7.33 7.33 7.33 7.33 7.33 7.33 7.3	7.5 7.5 7.5 7.5 7.4 7.4 7.3 7.4 7.3 7.4 7.3 7.2 7.0 6.9 5.8 4.7 5.1 6.2 6.4 5.8 5.1 5.3 5.1 5.1 5.3	7.1 7.2 7.3 7.4 7.3 7.2 7.0 6.9 5.8 6.6 6.2 5.2 4.9 4.4 4.9 5.1 4.7 4.7 4.6 4.3	6.3 7.0 7.1 7.2 7.3 7.2 7.0 6.9 5.8 5.4 5.2 4.6 3.8 4.4 4.0 4.1 4.1 4.1 4.1 4.4	7.1 7.3 7.3 7.3 7.3 7.1 7.0 6.5 5.5 6.3 6.5 5.7 4.9 4.7 4.6 4.7 4.6 4.5 4.2 4.2 4.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29				       7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5	         7.2 7.4 7.5 7.5 7.5 7.5 7.5		7.6 7.5 7.5 7.5 7.4 7.4 7.4 7.1 7.1 7.0 4.8 96.4 6.5 5.3 5.3 5.3 5.3 6.1 6.1	7.55 7.55 7.54 7.33 7.33 7.33 7.20 9.77 4.58 9.6.34 5.13 5.21 5.02 5.22	7.5 7.5 7.5 7.5 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.3 7.0 6.9 5.8 4.7 5.1 5.1 5.3 5.1 5.3 5.4	7.1 7.2 7.3 7.4 7.3 7.2 7.0 6.9 5.8 6.6 6.2 5.2 4.9 4.0 4.4 4.9 5.1 4.7 4.7 4.6 4.3 4.6 4.7	6.3 7.0 7.1 7.2 7.3 7.0 6.9 5.8 5.4 5.2 4.6 3.8 4.4 4.0 9 4.1 4.1 4.1 4.1 4.1 4.5	7.1 7.3 7.3 7.3 7.0 6.5 5.5 6.3 6.5 5.7 4.9 4.7 4.6 4.0 4.5 4.7 4.6 4.5 4.2 4.5 4.2 4.5 4.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28				      7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5	       7.2 7.4 7.4 7.5 7.5 7.5 7.4	      7.3 7.4 7.5 7.5 7.5 7.5 7.5	7.6 7.5 7.5 7.5 7.4 7.4 7.4 7.1 7.1 7.1 7.1 8.9 6.4 6.5 5.3 5.3 5.1 5.1 6.1	7.55 7.55 7.55 7.54 7.33 7.33 7.33 7.33 7.33 7.33 7.33 7.3	7.5 7.5 7.5 7.5 7.4 7.4 7.3 7.4 7.3 7.4 7.3 7.2 7.0 6.9 5.8 4.7 5.1 6.2 6.4 5.8 5.1 5.3 5.1 5.1 5.3	7.1 7.2 7.3 7.4 7.3 7.2 7.0 6.9 5.8 6.6 6.2 5.2 4.9 4.4 4.9 5.1 4.7 4.7 4.6 4.3	6.3 7.0 7.1 7.2 7.3 7.2 7.0 6.9 5.8 5.4 5.2 4.6 3.8 4.4 4.0 4.1 4.1 4.1 4.1 4.4	7.1 7.3 7.3 7.3 7.3 7.1 7.0 6.5 5.5 6.3 6.5 5.7 4.9 4.7 4.6 4.5 4.7 4.6 4.5 4.2 4.2 4.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30				      7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.6 7.6 7.6	       7.2 7.4 7.5 7.5 7.5 7.5 7.5	      7.3 7.4 7.5 7.5 7.5 7.5 7.5 7.5	7.6 7.5 7.5 7.5 7.4 7.4 7.4 7.3 7.1 7.0 4.8 9.6 6.5 5.3 5.4 5.2 5.3 6.1 6.3	7.55 7.55 7.54 7.33 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.	7.5 7.5 7.5 7.5 7.4 7.4 7.3 7.4 7.2 7.0 6.9 5.8 4.7 5.1 6.2 6.4 5.8 5.1 5.3 5.1 5.3 5.1	7.1 7.2 7.3 7.4 7.3 7.2 7.0 6.9 5.8 6.6 6.2 4.9 4.0 4.4 4.9 5.1 4.7 4.7 4.7 4.7 4.3 4.6 4.6 4.6 4.7 4.8	6.3 7.0 7.1 7.2 7.3 7.2 7.0 6.9 5.8 5.4 5.8 6.2 2.4 6.6 3.8 4.0 4.1 4.1 4.1 4.1 4.1 4.4 4.5 3.8	7.1 7.3 7.3 7.3 7.3 7.1 7.05 5.5 6.5 5.7 4.5 4.7 4.6 4.7 4.6 4.2 4.2 4.2 4.6 4.5

## 08235290 WIGHTMAN FORK AT MOUTH NEAR JASPER, CO--Continued

pH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		A	UGUST		S	EPTEMBE	R
1 2 3 4 5	4.9 4.9 4.3 4.2 4.3	4.2 4.2 4.0 4.0 3.9	4.5 4.6 4.1 4.1	5.0 5.1 5.1 5.0 5.0	4.8 4.9 4.8 4.8 4.8	4.9 5.0 5.0 4.9 4.9	4.8 4.7 4.7 4.7	4.7 4.3 4.5 4.5 4.4	4.7 4.6 4.6 4.7 4.6	5.0 5.2 5.3 5.2 5.0	4.8 4.9 4.5 4.9 4.8	5.0 5.0 4.9 5.1 5.0
6 7 8 9 10	4.5 4.5 4.5 4.5	4.3 4.4 4.4 4.3 4.2	4.4 4.5 4.4 4.3	5.0 5.0 5.0 5.0	4.9 4.8 4.9 4.2	5.0 5.0 4.9 4.9	4.8 4.8 3.9 4.5 4.5	4.5 3.5 3.4 3.9 3.5	4.7 4.3 3.4 4.3 4.1	5.1 5.1 5.1 5.1 5.0	5.0 5.0 4.9 4.6 4.5	5.0 5.0 5.0 5.0 4.9
11 12 13 14 15	4.8 5.4 5.3 5.3	4.5 4.8 5.2 5.1 5.2	4.7 5.1 5.3 5.3	4.2 4.4 4.8 4.9 4.9	3.8 3.7 4.4 4.7 4.8	4.0 3.9 4.7 4.8 4.9	3.5 4.6 4.8 4.8	3.2 3.2 4.6 4.3 4.6	3.3 3.6 4.7 4.7	5.1 5.0 5.0 5.1 5.1	4.9 4.7 4.9 4.9	5.0 4.9 4.9 4.9 4.9
16 17 18 19 20	5.6 4.2 4.6 4.7 4.8	4.0 3.8 4.1 4.6 4.2	5.0 4.0 4.2 4.7 4.5	5.0 5.0 5.0 5.0	4.8 4.8 4.9 4.9	4.9 4.9 4.9 4.9	4.7 4.7 4.7 4.7	4.5 4.6 4.5 4.5 4.4	4.6 4.7 4.6 4.6 4.5	5.0 5.0 5.1 5.0 5.0	4.6 4.9 4.8 4.7 4.8	4.8 4.9 5.0 4.9
21 22 23 24 25	4.2 3.9 4.4 5.0 5.1	3.9 3.8 3.8 4.4 4.8	4.0 3.9 3.9 4.7 5.0	5.0 5.1 5.0 4.7 4.5	4.9 4.9 4.7 4.0 3.8	4.9 5.0 4.9 4.3 4.0	4.8 5.0 5.0 6.4 6.4	4.5 4.8 4.8 4.8 5.0	4.7 4.9 4.9 5.1 5.3	6.2 5.7 5.8 5.8 5.5	4.6 5.0 5.2 5.5 5.1	5.3 5.3 5.5 5.6 5.3
26 27 28 29 30 31	4.8 4.6 4.5 4.4 4.8	4.5 4.4 4.3 4.2 4.2	4.7 4.6 4.4 4.3 4.4	4.8 5.0 5.0 5.1 4.9	4.5 4.7 4.9 4.8 4.5 4.5	4.7 4.8 4.9 5.0 4.8 4.7	5.5 5.3 5.1 5.1 5.1	4.7 5.0 5.0 4.9 4.6 4.6	5.1 5.2 5.1 5.0 5.0	5.4 5.6 5.6 6.0 5.9	5.3 5.4 5.0 5.5	5.3 5.4 5.5 5.5 5.6
MONTH	5.6	3.8	4.5	5.1	3.7	4.8	6.4	3.2	4.6	6.2	4.5	5.1

			•	Livii Liu II o	,	AT (DEC. C),	WITTER TELL	00101	221( 1//0 10	DEI TEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DE	CEMBER			JANUARY	
1	7.7	1.9	4.8									
2		2.4										
3												
4												
5												
3												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
0.1												
21												
22 23												
23												
25												
∠5												
26												
27												
28												
29												
30												
31												
J±												
MONTH												

# 08235290 WIGHTMAN FORK AT MOUTH NEAR JASPER, CO--Continued

				TEMPERATU								
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1							2.6	.0	. 9	2.1	.0	.9
2							2.4	.0 .1	.9 1.1	5.9 7.8	.0	1.6 2.5
4 5							2.0	. 0	.7	8.1	.0	2.7
							.0	.0	.0	6.7	.5	2.4
6 7							.0	.0	.0	5.8 4.2	. 8 . 7	1.9 1.8
8							.0	.0	.0	5.6	.6	2.0
9 10							1.5 .7	. 0	.5 .2	2.5 6.6	.0	$\frac{1.2}{2.4}$
11							.5	. 0	.1	5.4	. 6	2.5
12							.0	.0	.0	6.6	.7	2.5
13 14							.0 .1	. 0	. 0	6.0 4.7	. 6 . 6	2.1 1.8
15							2.5	.0	.6	4.8	.8	1.8
16							2.8	. 0	1.0	4.6	. 9	2.0
17							4.0	.0	1.1	6.1	1.1	2.4
18 19				.3 .3	.0	. 0	3.8 4.4	. 0	$\frac{1.1}{1.1}$	5.5 4.8	$\begin{array}{c} 1.1 \\ 1.2 \end{array}$	2.3 2.2
20				.0	.0	.0	4.7	.0	1.3	5.9	1.2	2.5
21				.0	.0	.0	4.5	.2	1.3	4.3	1.5	2.4
22 23				.0 2.3	. 0	.0 .6	4.1 2.5	. 0	1.3 1.0	4.9 4.9	1.5 1.1	2.6 2.4
24				1.9	.0	.6	4.0	. 0	. 8	4.2	1.2	2.3
25				2.3	.0	.5	1.1	. 0	. 2	6.2	. 7	2.4
26 27				2.6 3.0	. 0	.7 .9	4.2 7.6	. 0	$\frac{1.2}{2.4}$	6.6 7.6	.5 .2	2.6 2.7
28				3.4	.0	1.1	3.6	.5	1.8	5.7	.9	2.8
29 30				2.9 2.7	.0	1.0 .7	5.8 6.6	. 5 . 0	2.0	7.4 5.7	1.4 1.8	3.2 3.1
31				3.3	.0	. 9				7.2	1.9	3.6
MONTH							7.6	. 0	.8	8.1	.0	2.3
		JUNE			JULY		1	AUGUST			SEPTEMBE	
1	7.6	2.1	3.7	13.9	4.1	8.4	16.3	8.0	11.6	12.9	8.6	R 10.5
2	7.6 7.1 8.5		3.7 3.7 4.4	13.9 14.5 14.6		8.4 8.3 8.8						lR
2 3 4	7.1 8.5 9.2	2.1 1.9 2.0 2.6	3.7 4.4 5.2	14.5 14.6 14.8	4.1 3.0 3.9 4.5	8.3 8.8 9.0	16.3 12.8 14.3 13.1	8.0 8.4 9.2 9.6	11.6 10.8 11.4 11.1	12.9 14.2 13.6 13.0	8.6 7.9 7.8 7.7	10.5 10.7 10.2 10.1
2 3 4 5	7.1 8.5 9.2 8.4	2.1 1.9 2.0 2.6 2.8	3.7 4.4 5.2 5.0	14.5 14.6 14.8 12.8	4.1 3.0 3.9 4.5 4.7	8.3 8.8 9.0 8.5	16.3 12.8 14.3 13.1 13.7	8.0 8.4 9.2 9.6 9.3	11.6 10.8 11.4 11.1	12.9 14.2 13.6 13.0 11.8	8.6 7.9 7.8 7.7 7.1	10.5 10.7 10.2 10.1 9.7
2 3 4	7.1 8.5 9.2	2.1 1.9 2.0 2.6	3.7 4.4 5.2 5.0	14.5 14.6 14.8	4.1 3.0 3.9 4.5	8.3 8.8 9.0 8.5	16.3 12.8 14.3 13.1 13.7	8.0 8.4 9.2 9.6	11.6 10.8 11.4 11.1	12.9 14.2 13.6 13.0 11.8	8.6 7.9 7.8 7.7	10.5 10.7 10.2 10.1 9.7
2 3 4 5 6 7 8	7.1 8.5 9.2 8.4 7.7 7.3 5.2	2.1 1.9 2.0 2.6 2.8 2.8 4.1 3.3	3.7 4.4 5.2 5.0 5.0 5.2 4.2	14.5 14.6 14.8 12.8 14.0 10.1 10.5	4.1 3.0 3.9 4.5 4.7 4.4 5.4	8.3 8.8 9.0 8.5 8.8 7.8 7.7	16.3 12.8 14.3 13.1 13.7 12.9 12.0 14.7	8.0 8.4 9.2 9.6 9.3 7.4 8.0 7.1	11.6 10.8 11.4 11.1 11.1 9.9 9.8 10.6	12.9 14.2 13.6 13.0 11.8 12.6 12.6	8.6 7.9 7.8 7.7 7.1 7.7 6.8 6.9	10.5 10.7 10.2 10.1 9.7 9.9 9.8 10.1
2 3 4 5 6 7	7.1 8.5 9.2 8.4 7.7 7.3	2.1 1.9 2.0 2.6 2.8 2.8 4.1	3.7 4.4 5.2 5.0 5.0	14.5 14.6 14.8 12.8 14.0 10.1	4.1 3.0 3.9 4.5 4.7 4.4 5.4	8.3 8.8 9.0 8.5 8.8 7.8	16.3 12.8 14.3 13.1 13.7	8.0 8.4 9.2 9.6 9.3 7.4 8.0	11.6 10.8 11.4 11.1 11.1 9.9 9.8	12.9 14.2 13.6 13.0 11.8	8.6 7.9 7.8 7.7 7.1 7.7 6.8	10.5 10.7 10.2 10.1 9.7 9.9 9.8
2 3 4 5 6 7 8 9	7.1 8.5 9.2 8.4 7.7 7.3 5.2 5.5 9.2	2.1 1.9 2.0 2.6 2.8 2.8 4.1 3.3 2.6 3.8	3.7 4.4 5.2 5.0 5.0 5.2 4.2 3.9 5.7	14.5 14.6 14.8 12.8 14.0 10.1 10.5 11.0	4.1 3.0 3.9 4.5 4.7 4.4 5.4 4.7 4.9	8.3 8.8 9.0 8.5 8.8 7.8 7.7 8.1 8.9	16.3 12.8 14.3 13.1 13.7 12.9 12.0 14.7 14.0 13.0	8.0 8.4 9.2 9.6 9.3 7.4 8.0 7.1 7.0 8.8	11.6 10.8 11.4 11.1 11.1 9.9 9.8 10.6 10.3 10.3	12.9 14.2 13.6 13.0 11.8 12.6 12.6 13.4 11.0	8.6 7.9 7.8 7.7 7.1 7.7 6.8 6.9 8.0 7.1	10.5 10.7 10.2 10.1 9.7 9.9 9.8 10.1 9.6 9.9
2 3 4 5 6 7 8 9 10	7.1 8.5 9.2 8.4 7.7 7.3 5.2 5.5 9.2	2.1 1.9 2.0 2.6 2.8 2.8 4.1 3.3 2.6 3.8	3.7 4.4 5.2 5.0 5.0 5.2 4.2 3.9 5.7 5.8 5.9	14.5 14.6 14.8 12.8 14.0 10.1 10.5 11.0 12.4	4.1 3.9 4.5 4.7 4.4 5.4 4.7 5.2 7.5	8.3 8.8 9.0 8.5 8.8 7.8 7.7 8.1 8.9 9.0	16.3 12.8 14.3 13.1 13.7 12.9 12.0 14.7 14.0 13.0	8.0 8.4 9.2 9.6 9.3 7.4 8.0 7.1 7.0 8.8 6.4 6.1	11.6 10.8 11.4 11.1 11.1 9.9 9.8 10.6 10.3 10.3	12.9 14.2 13.6 13.0 11.8 12.6 12.6 13.4 11.0 13.3	8.6 7.9 7.8 7.7 7.1 7.7 6.8 6.9 8.0 7.1 6.7 6.7	10.5 10.7 10.2 10.1 9.7 9.9 9.8 10.1 9.6 9.9
2 3 4 5 6 7 8 9 10 11 12 13 14	7.1 8.5 9.2 8.4 7.7 7.3 5.2 5.5 9.2 10.5 10.6 11.1	2.1 1.9 2.0 2.6 2.8 2.8 4.1 3.3 2.6 3.8 2.6 3.8	3.7 4.4 5.2 5.0 5.0 5.2 4.2 3.9 5.7	14.5 14.6 14.8 12.8 14.0 10.1 10.5 11.0 12.4 11.0 15.1 15.4 16.1	4.1 3.9 4.5 4.7 4.4 5.4 4.7 4.9 5.2 7.5 5.4 5.7	8.3 8.8 9.0 8.5 8.8 7.8 7.7 8.1 8.9 9.0 9.5 9.9	16.3 12.8 14.3 13.1 13.7 12.9 12.0 14.7 14.0 13.0 13.1 14.3 13.1 12.7	8.0 8.4 9.2 9.6 9.3 7.4 8.0 7.1 7.0 8.8	11.6 10.8 11.4 11.1 11.1 9.9 9.8 10.6 10.3 10.3 9.4 9.8 10.0 9.2	12.9 14.2 13.6 13.0 11.8 12.6 12.6 13.4 11.0 13.3 12.5 12.5	8.6 7.9 7.8 7.7 7.1 7.7 6.9 8.0 7.1 6.7 6.7 5.8 6.1	10.5 10.7 10.2 10.1 9.7 9.9 9.8 10.1 9.6 9.9 9.5 8.7 8.9
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	7.1 8.5 9.2 8.4 7.7 7.3 5.2 5.5 9.2 10.5 10.6 9.4 11.1 10.9 8.5 9.8 13.1 12.9	2.1 1.9 2.0 2.6 2.8 2.8 4.1 3.3 2.6 3.8 2.6 3.2 2.9 2.7 1.9 3.5 4.1 3.9	3.7 4.4 5.0 5.2 4.2 5.7 5.2 4.2 5.7 5.9 6.2 7.8 7.8 7.8 7.8	14.5 14.6 14.8 12.8 14.0 10.1 10.5 11.0 12.4 11.0 15.1 15.4 16.1 14.8 12.2 12.0 10.0 12.2 12.3	4.1 3.9 4.5 4.7 4.4 4.7 4.9 5.2 7.5 4.0 5.7 7.0 7.0 6.8 7.8 8.3 7.4	8.3 8.8 9.0 8.5 8.8 7.7 8.1 8.9 9.0 9.5 9.9 10.7 10.9 9.6 8.4 10.2	16.3 12.8 14.3 13.1 13.7 12.9 12.0 14.7 14.0 13.0 13.1 14.3 13.1 12.7 15.1 15.1 13.7 12.1 13.6 13.5	8.0 8.4 9.2 9.6 9.3 7.4 8.0 7.1 7.0 8.8 6.4 6.1 6.4 5.7 6.9 6.8 8.7 7.0 7.0 7.0 8.8	11.6 10.8 11.4 11.1 11.1 9.9 9.8 10.6 10.3 10.3 9.4 9.8 10.0 9.2 10.0	12.9 14.2 13.6 13.0 11.8 12.6 13.3 12.5 12.5 11.4 12.0 11.6 12.4 11.5 12.3 12.9 10.4 8.1 8.8	8.6 7.9 7.8 7.7 7.1 7.7 6.9 8.0 7.1 6.7 6.7 5.8 6.6 7.9 7.0 6.9	10.5 10.7 10.2 10.1 9.7 9.9 9.8 10.1 9.6 9.9 9.5 8.7 8.9 8.6 9.5 8.2 9.6 9.5 8.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	7.1 8.5 9.2 8.4 7.7 7.3 5.2 5.2 9.2 10.5 10.6 9.4 11.1 10.9 8.5 9.8 13.1 12.6 12.9 13.3 13.6 13.9 13.8	2.1 1.9 2.0 2.6 2.8 2.8 4.1 3.3 2.6 3.8 2.6 3.2 2.9 2.7 1.9 3.5 4.5 4.5 3.9 4.2 4.4	3.7 4.4 5.0 5.2 4.2 3.7 5.9 5.9 6.2 7.8 7.8 7.8 7.8 8.4 8.1	14.5 14.6 14.8 12.8 14.0 10.1 10.5 11.0 12.4 11.0 15.1 15.4 16.1 14.8 12.2 12.0 10.0 12.2 12.3	4.1 3.0 3.9 4.5 4.7 4.4 4.7 4.9 5.2 7.5 5.0 7.0 6.4 6.8 7.4 6.8 7.5	8.3 8.8 9.0 8.5 8.8 7.7 8.1 8.9 9.0 9.5 9.9 10.7 10.9 9.6 8.4 9.4 10.2 10.5 9.3 10.0 11.3	16.3 12.8 14.3 13.1 13.7 12.9 12.0 14.7 14.0 13.0 13.1 12.7 15.1 15.1 15.1 13.6 13.5 13.9 11.8 13.1 12.3	8.0 8.4 9.2 9.6 9.3 7.4 8.0 7.1 7.0 8.8 6.4 6.1 7.1 6.4 5.7 6.9 8.7 6.3 7.0 7.1 7.0 8.1 7.0 8.1 7.1 7.0 8.1 7.1 6.1 7.1 6.1 7.1 6.1 7.1 6.1 7.1 6.1 7.1 7.1 6.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7	11.6 10.8 11.4 11.1 11.1 9.9 9.8 10.6 10.3 10.3 9.4 9.8 10.0 9.2 10.0 10.5 10.5 10.2 10.1 9.7 10.3	12.9 14.2 13.6 13.0 11.8 12.6 12.6 13.4 11.0 13.3 12.5 11.4 12.0 11.6 12.4 11.5 12.3 12.9 10.4 8.1 8.8 8.8 10.2 10.6	8.6 7.9 7.8 7.7 7.1 7.8 6.9 8.0 7.1 6.7 5.8 6.6 5.9 7.0 6.9 5.0 6.9 5.0 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9	10.5 10.7 10.2 10.1 9.7 9.9 9.8 10.1 9.6 9.9 9.5 8.7 8.9 8.6 9.2 8.2 9.5 8.5 6.6 6.4 6.0 6.3 7.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	7.1 8.5 9.2 8.4 7.7 7.3 5.2 5.5 9.2 10.5 10.6 9.4 11.1 10.9 8.5 9.8 13.1 12.9 13.3 13.6 12.9	2.1 1.9 2.0 2.6 2.8 2.8 4.1 3.3 2.6 3.8 2.6 2.2 2.9 2.7 1.9 3.5 4.1 3.9 3.9 3.8 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1	3.7 4.4 5.0 5.2 4.2 5.7 5.9 5.9 5.9 6.2 7.8 7.8 7.8 8.7 8.1 7.7	14.5 14.6 14.8 12.8 14.0 10.1 10.5 11.0 12.4 11.0 15.1 15.4 16.1 14.8 12.2 12.0 10.0 12.2 12.3 13.3 10.7 13.1 16.4 14.4	4.1 3.9 4.7 4.4 5.2 7.5 4.0 7.0 7.0 7.0 7.0 7.4 8.3 7.4 8.3 7.4 8.3 8.6	8.3 8.8 9.0 8.5 8.8 7.7 8.1 8.9 9.0 9.5 9.9 10.7 10.9 9.6 8.4 10.2 10.5 9.3 10.0 11.3	16.3 12.8 14.3 13.1 13.7 12.9 12.0 14.7 14.0 13.0 13.1 14.3 13.1 12.7 15.1 15.1 13.7 12.1 13.6 13.5 13.9 11.8 13.1 12.3 15.6 16.0	8.0 8.4 9.2 9.6 9.3 7.4 8.7 7.0 8.8 6.4 6.1 7.1 6.4 5.7 6.9 6.8 6.3 7.0 7.7 8.3 7.1 6.7 8.3 7.1 6.7 8.8	11.6 10.8 11.4 11.1 11.1 9.9 9.8 10.6 10.3 10.3 10.3 10.0 9.2 10.0 10.5 10.2 10.1 9.7 10.3 10.3	12.9 14.2 13.6 13.0 11.8 12.6 12.6 13.4 11.0 13.3 12.5 12.5 11.4 12.0 11.6 12.4 11.5 12.3 12.9 10.4 8.1 8.8 8.8 8.8 10.2 10.6	8.6 7.8 7.7 7.1 7.8 6.9 8.0 7.1 6.7 6.7 5.8 6.0 9 5.0 6.7 7.0 6.9 6.9 6.7 7.0 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9	10.5 10.7 10.2 10.1 9.7 9.9 9.8 10.1 9.6 9.9 9.5 8.7 8.9 8.6 9.5 8.5 6.4 6.0 6.3 7.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	7.1 8.5 9.2 8.4 7.7 7.3 5.2 5.5 9.2 10.6 9.4 11.1 10.9 8.5 9.8 13.1 12.6 12.9 13.3 13.6 12.9	2.1 1.9 2.0 2.6 2.8 2.8 4.1 3.3 2.6 3.2 2.7 1.9 54.1 4.5 9 3.8 4.9 4.2 4.4 4.8 4.7	3.7 4.4 5.0 5.2 4.2 3.7 5.9 5.9 6.2 7.8 7.8 7.8 8.7 8.4 8.7 7.9	14.5 14.6 14.8 12.8 14.0 10.1 10.5 11.0 12.4 11.0 15.1 15.4 16.1 14.8 12.2 12.0 10.0 12.2 12.3 13.3 10.7 13.1 16.4 14.4	4.1 3.0 3.9 4.5 4.7 4.4 4.7 4.9 5.2 7.5 5.0 7.0 7.0 9.6 6.8 8.3 7.4 6.8 7.5 8.3 6.2	8.3 8.8 9.0 8.5 8.8 7.7 8.1 8.9 9.0 9.5 9.9 10.7 10.7 10.2 10.5 9.3 10.0 11.3 11.0	16.3 12.8 14.3 13.1 13.7 12.9 12.0 14.7 14.0 13.0 13.1 12.7 15.1 15.1 13.7 12.1 13.6 13.5 13.9 11.8 13.1 12.3 15.6	8.0 8.4 9.2 9.6 9.3 7.4 8.0 7.1 7.0 8.8 6.4 6.1 6.4 5.7 6.9 6.8 7.0 7.7 8.8 7.1 7.0 8.8	11.6 10.8 11.4 11.1 11.1 11.1 9.8 10.6 10.3 10.3 10.3 9.4 9.8 10.0 9.2 10.0 10.5 10.2 10.1 9.7 10.3	12.9 14.2 13.6 13.0 11.8 12.6 12.6 13.4 11.0 13.3 12.5 12.5 11.4 12.0 11.6 12.4 11.5 12.3 12.9 10.4 8.1 8.8 8.8 10.2 10.6	8.6 7.8 7.7 7.1 7.8 6.9 8.0 7.1 6.7 6.7 8.0 5.8 6.5 7.0 6.9 7.0 6.9 7.0 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9	10.5 10.7 10.2 10.1 9.7 9.9 9.8 10.1 9.6 9.9 9.5 8.7 8.9 8.6 9.5 8.5 6.4 6.0 6.3 7.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	7.1 8.5 9.2 8.4 7.7 7.3 5.25 9.2 10.5 9.4 11.1 10.9 8.5 9.8 13.1 12.9 13.6 12.9 13.8 12.4 10.0 11.2 12.1 14.7	2.1 1.9 2.0 2.8 2.8 2.8 4.1 3.3 2.6 3.8 2.6 3.2 2.9 2.7 1.9 3.5 4.5 4.9 4.9 4.4 4.3 4.7 4.7	3.7 4.42 5.0 5.22 4.29 5.7 5.9 5.9 6.2 7.8 8.7 7.9 8.1 7.7 9.1	14.5 14.6 14.8 12.8 14.0 10.1 10.5 11.0 12.4 11.0 15.1 15.4 16.1 14.8 12.2 12.0 10.0 12.2 12.3 13.3 10.7 13.1 16.4 14.4	4.1 3.9 4.7 4.4 4.7 4.9 5.2 7.5 5.7 7.0 7.0 6.9 4.8 7.4 8.6 7.8 8.6 9.2 9.2 9.2	8.3 8.8 9.0 8.5 8.8 7.7 8.1 8.9 9.0 9.5 9.9 10.7 10.9 9.6 8.4 10.2 10.5 9.3 10.0 11.3 11.0	16.3 12.8 14.3 13.1 13.7 12.9 12.0 14.7 14.0 13.0 13.1 14.3 13.1 12.7 15.1 15.1 13.7 15.1 13.6 13.5 13.9 11.8 13.1 12.3 15.6 16.0 15.7 14.7 13.9	8.0 8.4 9.2 9.6 9.3 7.4 8.0 7.1 7.0 8.8 6.4 6.1 7.0 6.9 6.8 7.0 7.7 8.3 7.0 7.7 8.1 9.1 7.9 8.1 8.0	11.6 10.8 11.4 11.1 11.1 9.9 9.8 10.6 10.3 10.3 10.3 10.0 9.2 10.0 10.5 10.2 10.1 9.7 10.3 10.5 9.9 9.8 10.2 10.1 10.1 10.3	12.9 14.2 13.6 13.0 11.8 12.6 12.6 13.4 11.0 13.3 12.5 12.5 11.4 12.0 11.6 12.4 11.5 12.9 10.4 8.1 8.8 8.8 10.2 10.6 10.1 11.8 10.9 11.6	8.6 7.8 7.7 7.1 7.8 6.9 8.0 7.1 6.7 6.8 8.0 7.6 6.9 6.7 7.0 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9	10.5 10.7 10.2 10.1 9.7 9.9 9.8 10.1 9.6 9.9 9.5 8.7 8.9 8.6 9.2 8.2 9.5 8.5 6.6 6.4 6.3 7.0 7.9 8.3 7.2 7.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30 31	7.1 8.5 9.2 8.4 7.7 7.3 5.2 5.2 5.2 10.6 9.4 11.1 10.9 8.5 9.8 13.1 12.6 12.9 13.3 13.6 12.9 13.8 12.4	2.1 1.9 2.0 2.6 2.8 2.8 4.1 3.3 2.6 3.8 2.6 2.9 2.7 1.9 3.1 4.5 3.9 4.2 4.4 4.3 4.7 4.7	3.7 4.42 5.0 5.22 3.7 5.9 5.9 6.9 7.8 7.8 8.7 7.9 8.4 7.7 8.8 9.1	14.5 14.6 14.8 12.8 14.0 10.1 10.5 11.0 12.4 11.0 15.1 15.4 16.1 14.8 12.2 12.0 10.0 12.2 12.3 13.3 10.7 13.1 16.4 14.4	4.1 3.0 3.9 4.7 4.7 4.9 5.2 7.5 4.0 7.0 9.4 6.8 8.3 7.4 6.8 7.5 8.6 9.2 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	8.3 8.8 9.0 8.5 8.8 7.7 8.1 8.9 9.0 9.5 9.9 10.7 10.9 9.6 8.4 9.4 10.2 10.5 9.3 10.0 11.3 11.0	16.3 12.8 14.3 13.1 13.7 12.9 12.0 14.7 14.0 13.0 13.1 12.7 15.1 15.1 15.1 13.6 13.5 13.9 11.8 13.1 12.3 15.6 16.0 15.7 14.7 13.9 13.6	8.0 8.4 9.2 9.6 9.3 7.4 8.0 7.1 7.0 8.8 6.4 7.1 6.4 5.7 6.9 6.8 7.7 8.3 7.0 7.7 8.3 7.0 8.8 9.3 7.1 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 7.0 8.3 8.3 7.0 8.3 8.3 7.0 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	11.6 10.8 11.4 11.1 11.1 11.1 9.8 10.6 10.3 10.3 10.3 10.0 9.2 10.0 10.5 10.2 10.1 9.7 10.3 10.5 10.2 10.1 9.7 10.3 10.5 10.2	12.9 14.2 13.6 13.0 11.8 12.6 12.6 13.4 11.0 13.3 12.5 12.5 11.4 12.0 11.6 12.4 11.5 12.3 12.9 10.4 8.1 8.8 8.8 10.2 10.6 10.1 11.8 10.9 11.2 10.4	8.6 7.8 7.7 7.1 7.8 6.9 8.0 1 6.7 7.8 6.9 8.0 1 6.7 7.0 6.9 6.9 7.0 6.9 6.9 7.0 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9	10.5 10.7 10.2 10.1 9.7 9.9 9.8 10.1 9.6 9.9 9.5 9.5 8.7 8.9 8.6 9.2 9.5 8.5 6.6 6.4 6.3 7.0 7.9 8.3 7.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	7.1 8.5 9.2 8.4 7.7 7.3 5.25 9.2 10.5 9.4 11.1 10.9 8.5 9.8 13.1 12.9 13.6 12.9 13.8 12.4 10.0 11.2 12.1 14.7	2.1 1.9 2.0 2.8 2.8 2.8 4.1 3.3 2.6 3.8 2.6 3.2 2.9 2.7 1.9 3.5 4.5 4.9 4.9 4.4 4.3 4.7 4.7	3.7 4.42 5.0 5.22 4.29 5.7 5.9 5.9 6.2 7.8 8.7 7.9 8.1 7.7 9.1	14.5 14.6 14.8 12.8 14.0 10.1 10.5 11.0 12.4 11.0 15.1 15.4 16.1 14.8 12.2 12.0 10.0 12.2 12.3 13.3 10.7 13.1 16.4 14.4	4.1 3.9 4.7 4.4 4.7 4.9 5.2 7.5 5.7 7.0 7.0 6.9 4.8 7.4 8.6 7.8 8.6 9.2 9.2 9.2	8.3 8.8 9.0 8.5 8.8 7.7 8.1 8.9 9.0 9.5 9.9 10.7 10.9 9.6 8.4 10.2 10.5 9.3 10.0 11.3 11.0	16.3 12.8 14.3 13.1 13.7 12.9 12.0 14.7 14.0 13.0 13.1 14.3 13.1 12.7 15.1 15.1 13.7 15.1 13.6 13.5 13.9 11.8 13.1 12.3 15.6 16.0 15.7 14.7 13.9	8.0 8.4 9.2 9.6 9.3 7.4 8.0 7.1 7.0 8.8 6.4 6.1 7.0 6.9 6.8 7.0 7.7 8.3 7.0 7.7 8.1 9.1 7.9 8.1 8.0	11.6 10.8 11.4 11.1 11.1 9.9 9.8 10.6 10.3 10.3 10.3 10.0 9.2 10.0 10.5 10.2 10.1 9.7 10.3 10.5 9.9 9.8 10.2 10.1 10.1 10.3	12.9 14.2 13.6 13.0 11.8 12.6 12.6 13.4 11.0 13.3 12.5 12.5 11.4 12.0 11.6 12.4 11.5 12.9 10.4 8.1 8.8 8.8 10.2 10.6 10.1 11.8 10.9 11.6	8.6 7.8 7.7 7.1 7.8 6.9 8.0 7.1 6.7 6.8 8.0 7.6 6.9 6.7 7.0 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9	10.5 10.7 10.2 10.1 9.7 9.9 9.8 10.1 9.6 9.9 9.5 8.7 8.9 8.6 9.2 8.2 9.5 8.5 6.6 6.4 6.0 6.3 7.0 7.9

## 08235350 ALAMOSA RIVER ABOVE JASPER, CO

LOCATION.--Lat 37°25'03", long 106°29'30", in SE¹/4SE¹/4 sec.25, T.37 N., R.4 E., Rio Grande County, Hydrologic Unit 13010002, on left bank 2.0 mi downstream from Wightman Fork, and 2.0 mi west of Jasper.

DRAINAGE AREA.--58.1 mi².

PERIOD OF RECORD.--July 1995 to current year (seasonal records only).

REVISED RECORDS .-- WDR CO-96-1: 1995 (M).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,200 ft above sea level, from topographic map.

REMARKS.--Records fair except for the period, Mar. 18 to June 2, discharges above 600 ft³/s, and estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge during period of seasonal operation, 1,110 ft³/s, June 1, 1997; gage height, 5.75 ft, from rating curve extended above 580 ft³/s; minimum daily, 11 ft³/s, Aug. 19-20, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 1,110 ft³/s, June 1; gage height, 5.75 ft, from rating curve extended above 580 ft³/s; minimum daily, 12 ft³/s (estimated), Oct. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14						e35	73	755	226	76	62
2	1.3						e34	67	770	196	79	62
3	e12						e33	70	733	180	75	75
4							e31	94	724	169	89	69
5							e28	142	692	153	133	67
5							620	112	0,72	133	133	0 7
6							e26	201	587	144	113	64
7							e24	214	564	134	129	57
8							e23	210	523	117	98	50
9							e25	215	408	111	78	60
10							e23	186	428	110	131	59
11							e23	191	491	112	112	52
12							e22	229	489	106	89	55
13							e21	286	456	102	78	48
14							22	367	442	95	74	49
15							24	402	437	89	66	43
16							28	429	475	83	59	58
17							36	441	420	76	56	42
18						e20	51	480	470	77	65	38
19						23	69	469	503	81	62	38
20						28	94	459	489	81	53	39
21						e32	119	442	464	100	51	200
22						e35	125	411	443	85	61	180
23						e38	112	416	425	81	59	138
24						e40	89	385	390	76	61	110
25						e43	71	326	351	70	61	94
26						- 45	63	297	313	60	126	81
						e45 e43	63			69	73	
27							60	291	284	80		71
28						e41	71	317	279	86	60	63
29						e39	68	388	271	74	55	56
30						e38	68	487	259	91	60	52
31						e37		577		106	66	
TOTAL							1518	9562	14335	3360	2448	2132
MEAN							50.6	308	478	108	79.0	71.1
MAX							125	577	770	226	133	200
MIN							21	67	259	69	51	38
AC-FT							3010	18970	28430	6660	4860	4230

e-Estimated.

## 08235700 ALAMOSA RIVER BELOW CASTLEMAN GULCH NEAR JASPER, CO

LOCATION.--Lat 37°24'10", long 106°27'00", in SE¹/4SE¹/4 sec.32, T.37 N., R.5 E., Rio Grande County, Hydrologic Unit 13010002, on left bank at private bridge, 15 ft downstream from Castleman Gulch, and 1.2 mi southeast of Jasper.

DRAINAGE AREA.--76.3 mi².

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1995 to current year (seasonal records only).

REVISED RECORDS.--WDR CO-96-1: 1995 (M).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,040 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and those above 1,000 ft³/s, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge during period of seasonal operation, 1,230 ft³/s, June 1, 1997; gage height, 5.96 ft, from rating curve extended above 1,200 ft³/s; minimum daily, 12 ft³/s, Aug. 19-20, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 1,230 ft³/s, June 1; gage height, 5.96 ft, from rating curve extended above 1,200 ft³/s; minimum daily, 17 ft³/s, Oct. 1-2.

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

						DAILY	MEAN VAL	UES				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17						47	99	879	242	81	73
2	17						43	85	869	207	82	67
3							40	84	855	192	77	91
4							40	e109	837	179	94	80
5							36	e160	e790	163	154	83
5							30	6100	e/90	103	154	83
6							34	e220	e660	152	131	77
7							33	e235	e610	143	161	69
8							31	e230	e560	124	114	60
9							30	e240	e432	117	87	68
10							28	e210	e454	116	146	66
11							27	e215	503	121	129	56
12							26	e250	525	113	98	60
13							26	340	493	109	84	51
14							26	426	475	102	79	53
15							27	482	473	97	70	45
16							34	500	527	91	61	61
17							41	527	440	84	57	44
18						31	58	556	493	82	65	39
19						38	78	589	531	89	69	38
20						38	108	562	520	87	55	39
21						41	e135	582	501	109	52	227
22						41	e140	543	483	94	64	221
23						44	125	556	458	89	61	163
24						47	106	516	415	81	62	125
25						51	87	412	369	74	66	103
26						55	77	358	334	70	144	90
27						54	78	349	299	87	82	82
28						53	99	370	294	96	69	74
29						51	98	451	286	78	61	68
30						50	96	583	272	98	65	62
31						49		758		118	78	
- '												
TOTAL							1854	11597	15637	3604	2698	2435
MEAN							61.8	374	521	116	87.0	81.2
MAX							140	758	879	242	161	227
MIN							26	84	272	70	52	38
AC-FT							3680	23000	31020	7150	5350	4830
11							3300	25500	31320	. 130	5550	1000

e-Estimated.

## 08235700 ALAMOSA RIVER BELOW CASTLEMAN GULCH NEAR JASPER, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1995 to current year (seasonal only).

PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: July 1995 to current year (seasonal only).

WATER TEMPERATURE: July 1995 to current year (seasonal only).

pH: July 1995 to current year (seasonal only).

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS .-- Records for daily specific conductance are good. Records for daily water temperature are good. Records for daily pH are good. Daily data that are not published during period of seasonal operation (Oct. 1-3 and Mar. 17 to Sept. 30) are either missing or of unacceptable quality.

## EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum during period of seasonal operation, 681 microsiemens, Mar. 30, 1996; minimum, 76 microsiemens, May 17, 1996 and June 15, 1997.

pH: Maximum during period of seasonal operation, 7.0 units, several days during 1996; minimum, 3.4 units, Aug. 25, 1996. WATER TEMPERATURE: Maximum during period of seasonal operation, 21.3°C, July 20, 1996; minimum, 0.0°C, many days.

## EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum during period of seasonal operation, 570 microsiemens, Oct. 2; minimum, 76 microsiemens, June 15.

pH: Maximum during period of seasonal operation, 6.9 units, several days; minimum, 3.8 units, Mar. 18. WATER TEMPERATURE: Maximum during period of seasonal operation, 17.9°C, Aug. 27; minimum, 0.0°C, many days.

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	VEMBER		DE	CEMBER		,	JANUARY	7
1	566	414	530									
2	570	450	505									
3	568	445	470									
4												
5												
3												
6												
7												
8												
9												
10												
11												
12												
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18												
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21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
31												
MONTH												

# 08235700 ALAMOSA RIVER BELOW CASTLEMAN GULCH NEAR JASPER, CO--Continued

										OBEK 1996 I		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1							296	275	285	228	214	220
2 3							297 313	284 292	292 302	240 248	218 227	229 238
4 5							306 317	297 302	302 307	230 195	195 162	222 187
6 7								303 300		162 148	137 137	149 142
8										146	132	140
9 10										156 170	132 156	141 163
11 12										164 158	154 133	159 150
13 14										143 136	118 119	135 129
15										269	116	153
16										237	170	220
17							505	362	417	174	124	154
18 19				442 458	364 355	401 399	362 299	299 260	324 285	127 152	93 92	112 116
20				400	324	368	275	244	260	160	124	148
21				363	309	334	285	224	257	129	97	116
22 23				331 305	292 284	309 295	230 209	207 202	222 206	120 120	108 107	112 113
24				291	274	280	225	209	216	132	106	115
25				299	278	289	241	212	230	147	131	140
26				309	288	298	265	240	253	164	143	155
27 28				302 307	290 284	296 294	279 254	254 238	267 243	181 172	157 142	164 161
29				293	283	287	251	233	241	158	118	143
30 31				305 287	278 275	290 282	258 	228	243	178 165	119 103	134 144
MONTH										269	92	155
MONTH										200	22	133
		JUNE			JULY		P	UGUST		5	SEPTEMBE	R
1	114	79	101	138	116	128	261	194	244	308	266	289
2	101 132	83 96	92 112	148 153	121 115	138 136	268 268	233 237	252 255	323 320	203 189	311 261
4	131	92	109	159	115	145	288	251	264	317	257	277
5	119	89	102	161	129	147	258	188	217	274	222	255
6	106	90	100	169	134	157	359	221	246	282	257	270
7 8	119 123	101 101	111 115	170 180	145 150	159 167	340 364	214 307	261 342	298 313	278 298	289 306
9	141	119	133	186	150	172	307	207	224	317	267	305
10	161	102	141	219	154	188	284	197	214	278	261	271
11 12	121 102	87 80	107 93	231 240	197 154	214 212	320 333	228 193	285 290	298 292	263 260	287 279
13	101	81	92	201	150	182	195	182	191	331	291	305
14 15	103 97	84 76	95 88	199 210	158 157	183 191	226 202	181 182	192 193	308 318	281 284	297 304
		78	108		174	206	217	197	203	284		253
16 17	158 185	125	159	222 225	173	209	294	217	277	296	189 277	288
18 19	144 107	90 91	124 98	267 245	191 208	227 226	315 299	233 233	288 273	312 333	277 247	300 297
20	125	92	105	239	184	226	316	297	309	342	330	336
21	135	101	116	221	177	202	323	303	314	330	143	218
22	143	111 97	126	247	195	214	317	263	288	186	156	171
23 24	137 114	90	122 103	305 242	219 219	237 233	362 362	265 263	295 299	189 202	165 181	178 194
25	113	94	106	298	216	257	354	221	278	222	202	214
26	128	108	117	267	220	252	306	175	209	234	221	230
27 28	142 145	110 115	130 132	288 292	221 192	247 249	263 285	185 262	246 276	248 264	234 248	243 257
29	146	110	131	263	239	250	303	285 301	296	277	203	251
30 31	141	120	128	283 239	227 178	250 201	346 330	255	308 288	290 	275 	285
MONTH	185	76	113	305	115	200	364	175	262	342	143	267
				505								

# 08235700 ALAMOSA RIVER BELOW CASTLEMAN GULCH NEAR JASPER, CO--Continued

pH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DE	ECEMBER			JANUARY	
1	5.6	5.4	5.5									
2	5.6	5.4 5.4	5.5 5.4									
4	5.5											
5												
6												
7												
8 9												
10												
11 12												
13												
14												
15												
16												
17												
18 19												
20												
21 22												
23												
24												
25												
26												
27												
28 29												
30												
31												
MONTH												
MONTH												
	:	FEBRUARY			MARCH			APRIL			MAY	
1									F 0	6.2		<i>c</i> 1
1 2		FEBRUARY					5.1	4.9	5.0 5.1	6.2 6.1	5.7	6.1 6.0
1 2 3									5.0 5.1 5.1	6.2 6.1 6.1		6.1 6.0 5.9
2 3 4	  	  			  		5.1 5.2 5.2 5.1	4.9 5.0 4.9 5.0	5.1 5.1 5.1	6.1 6.1 6.2	5.7 5.9 5.7 5.6	6.0 5.9 6.0
2 3							5.1 5.2 5.2	4.9 5.0 4.9	5.1 5.1	6.1 6.1	5.7 5.9 5.7	6.0 5.9
2 3 4 5	  	  			  		5.1 5.2 5.2 5.1 5.2	4.9 5.0 4.9 5.0 5.1	5.1 5.1 5.1 5.1	6.1 6.2 6.6	5.7 5.9 5.7 5.6 5.7	6.0 5.9 6.0 6.2
2 3 4 5 6 7						  	5.1 5.2 5.2 5.1 5.2 5.2	4.9 5.0 4.9 5.0 5.1 4.9 4.8	5.1 5.1 5.1 5.1 5.1 5.0	6.1 6.2 6.6 6.7 6.6	5.7 5.9 5.7 5.6 5.7 5.9 6.1	6.0 5.9 6.0 6.2 6.3 6.5
2 3 4 5							5.1 5.2 5.2 5.1 5.2 5.2 5.2 5.2	4.9 5.0 4.9 5.0 5.1 4.9 4.8 4.8	5.1 5.1 5.1 5.1 5.1 5.0 5.0	6.1 6.2 6.6 6.7 6.6 6.7	5.7 5.9 5.7 5.6 5.7 5.9 6.1 6.4	6.0 5.9 6.0 6.2 6.3 6.5 6.6
2 3 4 5 6 7 8							5.1 5.2 5.2 5.1 5.2 5.2	4.9 5.0 4.9 5.0 5.1 4.9 4.8	5.1 5.1 5.1 5.1 5.1 5.0	6.1 6.2 6.6 6.7 6.6	5.7 5.9 5.7 5.6 5.7 5.9 6.1	6.0 5.9 6.0 6.2 6.3 6.5
2 3 4 5 6 7 8 9				   		   	5.1 5.2 5.2 5.1 5.2 5.2 5.2 5.1 5.0 5.1	4.9 5.0 4.9 5.0 5.1 4.9 4.8 4.8 4.9 5.0	5.1 5.1 5.1 5.1 5.0 5.0 5.0 5.0	6.1 6.2 6.6 6.7 6.6 6.7 6.6 6.5	5.7 5.9 5.7 5.6 5.7 5.9 6.1 6.4 6.2 6.2	6.0 5.9 6.0 6.2 6.3 6.5 6.6 6.5
2 3 4 5 6 7 8 9				   		   	5.1 5.2 5.2 5.1 5.2 5.2 5.2 5.1 5.0	4.9 5.0 4.9 5.0 5.1 4.9 4.8 4.8	5.1 5.1 5.1 5.1 5.0 5.0 5.0 5.0	6.1 6.1 6.2 6.6 6.7 6.6 6.7 6.6	5.7 5.9 5.7 5.6 5.7 5.9 6.1 6.4 6.2 6.2	6.0 5.9 6.0 6.2 6.3 6.5 6.6 6.5 6.4
2 3 4 5 6 7 8 9 10 11 12 13			   				5.1 5.2 5.2 5.1 5.2 5.2 5.2 5.1 5.0 5.1	4.9 5.0 4.9 5.0 5.1 4.9 4.8 4.8 4.9 5.0 4.8 4.7	5.1 5.1 5.1 5.1 5.0 5.0 5.0 5.0 5.0 4.9	6.1 6.2 6.6 6.7 6.6 6.7 6.6 6.5	5.7 5.9 5.7 5.6 5.7 5.9 6.1 6.4 6.2 6.2	6.0 5.9 6.0 6.2 6.5 6.5 6.5 6.5 6.5
2 3 4 5 6 7 8 9 10 11 12 13 14			  	   			5.1 5.2 5.2 5.1 5.2 5.2 5.2 5.1 5.0 5.1	4.9 5.0 4.9 5.1 4.9 4.8 4.9 5.0 4.8 4.7 4.7	5.1 5.1 5.1 5.1 5.0 5.0 5.0 5.0 5.0 4.9 4.8	6.1 6.2 6.6 6.7 6.6 6.7 6.6 6.5 6.6 6.5	5.7 5.7 5.6 5.7 5.6 5.7 5.9 6.1 6.2 6.2 6.4 6.5 5.4	6.0 5.9 6.0 6.2 6.3 6.5 6.5 6.4 6.5 6.1 5.6
2 3 4 5 6 7 8 9 10 11 12 13			   			==== ==== ==== ==== ====	5.1 5.2 5.2 5.1 5.2 5.2 5.2 5.1 5.0 5.1	4.9 5.0 4.9 5.0 5.1 4.9 4.8 4.8 4.9 5.0 4.8 4.7	5.1 5.1 5.1 5.1 5.0 5.0 5.0 5.0 5.0 4.9	6.1 6.2 6.6 6.7 6.6 6.7 6.6 6.5	5.7 5.9 5.7 5.6 5.7 5.9 6.1 6.4 6.2 6.2	6.0 5.9 6.0 6.2 6.5 6.5 6.5 6.5 6.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15							5.1 5.2 5.2 5.1 5.2 5.2 5.1 5.0 5.1 5.0 4.9 4.9	4.9 5.0 4.9 5.0 5.1 4.9 4.8 4.8 4.9 5.0 4.8 4.7 4.5 4.7	5.1 5.1 5.1 5.0 5.0 5.0 5.0 5.0 4.9 4.9 4.8 4.9	6.1 6.2 6.6 6.7 6.6 6.7 6.6 6.5 6.5 6.6 6.4 5.7 6.0	5.7 5.7 5.7 5.7 5.7 5.7 6.4 6.2 6.2 6.4 6.5 5.4 6.4 6.5 4.6	6.0 5.9 6.0 6.2 6.3 6.5 6.6 6.5 6.4 6.5 6.1 5.6 5.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15			       				5.1 5.2 5.2 5.1 5.2 5.2 5.2 5.1 5.0 5.1 5.0 4.9 4.9	4.9 5.0 4.9 5.1 4.9 4.8 4.9 5.0 4.8 4.7 4.7 4.7 4.5 4.7	5.1 5.1 5.1 5.0 5.0 5.0 5.0 5.0 4.9 4.9 4.9 4.7 4.6	6.1 6.2 6.6 6.7 6.6 6.7 6.6 6.5 6.6 6.4 5.7 6.0	5.7 5.7 5.6 5.7 5.6 5.7 5.9 6.1 6.2 6.2 6.2 6.4 6.0 5.4 4.6 4.6 4.6	6.0 5.0 6.2 6.3 6.5 6.6 6.4 6.5 6.1 5.5 4.8 5.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18							5.1 5.2 5.2 5.1 5.2 5.2 5.1 5.0 5.1 5.0 4.9 4.9 4.9 5.0	4.9 5.0 4.9 5.0 5.1 4.8 4.8 4.9 5.0 4.8 4.7 4.7 4.5 4.7	5.1 5.1 5.1 5.0 5.0 5.0 5.0 5.0 5.0 4.9 4.9 4.8 4.9	6.1 6.2 6.6 6.7 6.6 6.7 6.6 6.5 6.6 6.4 5.7 6.0	5.7 5.7 5.7 5.7 5.6 5.7 5.1 6.4 6.2 6.4 6.5 4.6 5.4 4.6 5.2	6.0 5.9 6.2 6.3 6.6 6.5 6.4 6.5 6.1 5.6 5.5 4.8 5.2 5.8
2 3 4 5 6 7 8 9 10 11 12 13 14 15							5.1 5.2 5.2 5.1 5.2 5.2 5.2 5.1 5.0 5.1 5.0 4.9 4.9	4.9 5.0 4.9 5.1 4.9 4.8 4.9 5.0 4.8 4.7 4.7 4.7 4.5 4.7	5.1 5.1 5.1 5.0 5.0 5.0 5.0 5.0 4.9 4.9 4.9 4.7 4.6	6.1 6.2 6.6 6.7 6.6 6.7 6.6 6.5 6.6 6.4 5.7 6.0	5.7 5.7 5.6 5.7 5.6 5.7 5.9 6.1 6.2 6.2 6.2 6.4 6.0 5.4 4.6 4.6 4.6	6.0 5.0 6.2 6.3 6.5 6.6 6.4 6.5 6.1 5.5 4.8 5.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20				4.5 4.4	        3.8 3.9 4.0	       4.2 4.2 4.2	5.1 5.2 5.2 5.1 5.2 5.2 5.1 5.0 5.1 5.0 4.9 4.9 4.9 5.0 5.1 5.0	4.9 5.0 4.9 5.0 5.1 4.8 4.8 4.9 5.0 4.8 4.7 4.5 4.7 4.5 4.7 4.8 4.8	5.1 5.1 5.1 5.0 5.0 5.0 5.0 5.0 5.0 4.9 4.9 4.8 4.9 4.7 4.6 4.9 4.9 5.0	6.1 6.2 6.6 6.7 6.6 6.7 6.6 6.5 6.6 6.4 5.7 6.0 5.0 5.4 6.2 6.6 6.2	5.7 5.7 5.7 5.7 5.6 5.7 5.1 6.4 6.2 6.4 6.2 6.4 6.5 4.6 5.2 5.2 5.1	6.0 5.0 6.2 6.3 6.6 6.5 6.4 6.5 5.5 5.5 5.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20				      4.5 4.4 4.4	      3.8 3.9 4.0	       4.2 4.2 4.2 4.2	5.1 5.2 5.2 5.1 5.2 5.2 5.1 5.0 5.1 5.0 4.9 4.9 4.9 5.0 5.1 5.2	4.9 5.0 4.9 5.0 5.1 4.8 4.8 4.9 5.0 4.8 4.7 4.5 4.7 4.5 4.7 4.5 4.8 4.9	5.1 5.1 5.1 5.0 5.0 5.0 5.0 5.0 4.9 4.9 4.9 4.9 5.0	6.1 6.2 6.6 6.7 6.6 6.7 6.6 6.5 6.6 6.4 5.7 6.0 5.4 6.2 6.6 6.2	5.7 5.7 5.7 5.7 5.7 5.1 6.2 6.4 6.2 6.4 6.5 5.4 4.6 6.0 5.2 5.1 5.2 5.1 5.2 5.1 5.2 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1	6.0 5.9 6.2 6.3 6.6 6.5 6.4 6.5 6.1 5.6 5.5 4.8 5.2 5.9 5.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23				     4.5 4.4 4.4 4.5 4.6 4.8	      3.8 3.9 4.0 4.0 4.2 4.5	       4.2 4.2 4.2 4.2 4.3 4.5 4.7	5.1 5.2 5.2 5.2 5.1 5.0 5.1 5.1 5.0 4.9 4.9 5.0 5.1 5.0 5.1	4.9 5.0 4.9 5.0 5.1 4.8 4.8 4.9 5.0 4.8 4.7 4.7 4.5 4.7 4.8 4.8 4.9 5.1 4.8 4.9 5.1 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9	5.1 5.1 5.1 5.0 5.0 5.0 5.0 5.0 4.9 4.9 4.8 4.9 4.9 5.0 5.0 5.0	6.1 6.2 6.6 6.7 6.6 6.7 6.5 6.6 6.5 7 6.6 6.5 6.4 5.7 6.0	5.79 5.75 5.75 5.75 5.75 5.17 5.14 6.22 6.40 5.54 6.55 4.60 5.52 5.11 6.59 5.69	6.0 5.0 6.2 6.3 6.6 6.5 6.4 6.5 6.1 5.6 5.2 4.2 5.8 5.9 5.2 5.8 6.6 6.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24				       4.5 4.4 4.4 4.5 4.6 4.8 5.0	      3.8 3.9 4.0 4.0 4.2 4.5 4.7	        4.2 4.2 4.2 4.2 4.7 4.9	5.1 5.2 5.2 5.1 5.2 5.2 5.1 5.0 5.1 5.0 4.9 4.9 4.9 5.0 5.1 5.2	4.9 5.0 4.9 5.1 4.8 4.9 5.1 4.8 4.7 4.5 4.7 4.5 4.7 4.8 4.9 5.1 4.8 4.9 5.1 4.9 5.1 4.9 5.1 4.9 5.0 4.9 5.0 4.9 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	5.1 5.1 5.1 5.0 5.0 5.0 5.0 5.0 5.0 4.9 4.9 4.9 4.9 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	6.1 6.2 6.6 6.7 6.6 6.7 6.6 6.5 6.6 6.4 5.7 6.0 5.0 5.4 6.2 6.4 6.3	5.79 5.75 5.75 5.75 5.75 5.14 6.22 6.40 6.55 4.66 6.22 4.65 5.55 5.75 5.75 5.75 5.75 6.14 6.25 6.25 6.25 6.25 6.25 6.25 6.25 6.25	6.0 5.0 6.2 6.3 6.6 6.5 6.4 6.5 5.5 4.8 5.2 5.2 5.8 5.2 6.1 6.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23				     4.5 4.4 4.4 4.5 4.6 4.8	      3.8 3.9 4.0 4.0 4.2 4.5	       4.2 4.2 4.2 4.2 4.3 4.5 4.7	5.1 5.2 5.2 5.2 5.1 5.0 5.1 5.1 5.0 4.9 4.9 5.0 5.1 5.0 5.1	4.9 5.0 4.9 5.0 5.1 4.8 4.8 4.9 5.0 4.8 4.7 4.7 4.5 4.7 4.8 4.8 4.9 5.1 4.8 4.9 5.1 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9	5.1 5.1 5.1 5.0 5.0 5.0 5.0 5.0 4.9 4.9 4.8 4.9 4.9 5.0 5.0 5.0	6.1 6.2 6.6 6.7 6.6 6.7 6.5 6.6 6.5 7 6.6 6.5 6.4 5.7 6.0	5.79 5.75 5.75 5.75 5.75 5.17 5.14 6.22 6.40 5.54 6.55 4.60 5.52 5.11 6.59 5.69	6.0 5.0 6.2 6.3 6.6 6.5 6.4 6.5 5.5 5.2 5.8 5.9 5.2 5.8 6.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26				       4.5 4.4 4.4 4.5 4.6 4.8 5.0 5.0		        4.2 4.2 4.2 4.2 4.7 4.9 5.0	5.1 5.2 5.2 5.1 5.2 5.2 5.1 5.0 5.1 5.0 4.9 4.9 5.0 5.1 5.2 5.2 5.1 5.0 5.1 5.0 5.1 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	4.9 5.0 4.9 5.1 4.8 4.9 5.1 4.8 4.7 4.5 4.7 4.5 4.7 4.8 4.9 5.1 4.8 4.9 5.1 4.9 5.1 4.9 5.1 4.9 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1	5.1 5.1 5.1 5.0 5.0 5.0 5.0 5.0 5.0 4.9 4.9 4.9 4.9 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	6.1 6.2 6.6 6.7 6.6 6.7 6.6 6.5 6.6 6.4 5.7 6.0 5.4 6.2 6.4 6.3 6.4 5.4	5.79 5.75 5.75 5.75 5.75 5.14 6.22 6.40 6.55 4.66 6.22 5.14 6.09 5.55 5.35 5.35 5.35 5.35 5.35 5.35 5.3	6.0 5.9 6.2 6.3 6.6 6.5 6.4 6.5 6.5 5.5 4.8 5.8 5.9 5.2 6.2 6.3 6.4 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.6 6.5 6.6 6.5 6.6 6.7 6.7 6.7 6.7 6.7 6.7 6.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27				     4.5 4.4 4.4 4.5 4.6 4.8 5.0 5.0	      3.8 3.9 4.0 4.0 4.2 4.5 4.7 4.9	      4.2 4.2 4.2 4.7 4.7 4.9 5.0	5.1 5.2 5.2 5.1 5.2 5.2 5.1 5.0 5.1 5.0 4.9 4.9 4.9 5.0 5.1 5.2 5.2 5.1 5.0 5.1 5.0 5.1 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	4.9 5.0 4.9 5.1 4.8 4.9 5.4 4.7 4.7 4.7 4.8 4.9 5.4 5.3 4.8 4.9 5.1 4.8 4.9 5.1 4.8 4.9 5.1 4.9 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1	5.1 5.1 5.1 5.0 5.0 5.0 5.0 5.0 4.9 4.9 4.9 4.9 5.1 5.6 6.5 5.4 5.2	6.1 6.2 6.6 6.7 6.6 6.7 6.6 6.5 6.6 6.4 5.7 6.0 5.4 6.2 6.3 6.3 6.4 6.3 6.5	5.79 5.76 5.75 5.75 5.76 6.22 6.05 4.66 5.22 1.40 5.55 5.75 5.75 5.75 5.75 5.75 5.75 5.7	6.0 5.0 6.2 6.3 6.5 6.5 6.5 6.5 6.5 5.5 4.2 5.8 5.2 5.8 5.2 5.2 5.4 5.4 5.4 5.4
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28				     4.5 4.4 4.4 4.5 4.6 4.8 5.0 5.0 5.0	       3.8 3.9 4.0 4.0 4.2 4.5 4.7 4.9	      4.2 4.2 4.2 4.2 4.2 4.9 5.0	5.1 5.2 5.2 5.2 5.1 5.0 5.1 5.0 4.9 4.9 4.9 5.0 5.1 5.2 5.2 5.1 5.0 4.9 5.0 5.1 5.0 5.1 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	4.9 9.0 4.9 5.0 4.8 4.8 4.7 4.7 4.7 4.8 4.7 4.8 4.9 4.8 4.9 4.8 4.9 4.8 4.9 4.8 4.9 4.8 4.9 4.8 4.9 4.8 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9	5.1 5.1 5.1 5.0 5.0 5.0 5.0 5.0 4.9 4.9 4.9 4.9 5.1 5.6 6.6 5.4 5.3 5.3	6.1 6.2 6.6 6.7 6.6 6.7 6.6 6.5 6.6 6.4 5.7 6.0 5.4 6.2 6.3 6.2 6.1 5.4 6.3 6.2 6.5	5.79.76.7 5.76.7 5.76.7 5.76.4 6.22 4.05.46 6.02.21 4.09.53 5.32.4	6.0 5.0 6.2 6.3 6.6 6.5 6.4 6.5 6.1 5.6 4.8 5.9 5.8 6.1 6.0 6.1 5.5 6.1 6.5 6.1 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30				     4.5 4.4 4.4 4.5 4.6 4.8 5.0 5.0 5.0 5.0 5.0	      3.8 3.9 4.0 4.0 4.2 4.5 4.7 4.9 4.8 4.8 4.8 4.8 4.8	      4.2 4.2 4.2 4.2 4.7 4.7 4.9 5.0 4.9 4.9	5.1 5.2 5.2 5.1 5.2 5.2 5.1 5.0 5.1 5.0 4.9 4.9 4.9 5.0 5.1 5.2 5.2 5.1 5.0 5.1 5.0 5.1 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	4.9 5.0 4.9 5.1 4.8 4.9 5.4 4.7 4.7 4.7 4.8 4.9 5.4 5.3 4.8 4.9 5.1 4.8 4.9 5.1 4.8 4.9 5.1 4.9 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1	5.1 5.1 5.1 5.0 5.0 5.0 5.0 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	6.1 6.2 6.6 6.7 6.6 6.7 6.6 6.5 6.6 6.4 5.7 6.0 5.4 6.2 6.3 6.2 6.3 6.2 6.3 6.2 6.3 6.2 6.3 6.4 6.3 6.2 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3	5.79.76.7 9.14.22 4.05.46 6.02.21 4.09.53 3.24.59.55.5 5.45.9	6.0 5.0 6.2 6.3 6.6 6.5 6.5 6.5 6.5 6.5 6.5 6.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29				       4.5 4.4 4.4 4.5 4.6 4.8 5.0 5.0 5.0 5.0	       3.8 3.9 4.0 4.2 4.5 4.7 4.9	        4.2 4.2 4.2 4.2 4.7 4.9 5.0	5.1 5.2 5.2 5.1 5.2 5.2 5.1 5.0 5.1 5.0 4.9 4.9 5.0 5.1 5.2 5.2 5.1 5.0 5.1 5.0 5.1 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	4.9 5.0 4.9 5.1 4.8 4.9 5.1 4.8 4.7 4.5 4.5 4.7 4.5 5.3 4.8 4.9 5.3 4.8 4.9 5.3 5.3 5.3 5.3 5.3 5.3 5.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6	5.1 5.1 5.1 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 4.9 4.9 4.9 4.9 5.0 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6	6.1 6.2 6.6 6.7 6.6 6.7 6.6 6.5 6.6 6.4 5.7 6.0 5.4 6.2 6.3 6.2 6.4 5.5 5.4 6.3 6.5	5.79 5.76 5.76 5.76 5.76 6.22 4.66 6.22 4.66 5.22 5.36 5.36 5.36 5.36 5.36 5.36 5.36 5.36	6.0 5.0 6.2 6.3 6.6 6.5 6.5 6.5 5.5 8.2 5.2 5.2 5.3 6.6 6.5 5.5 6.5 6.5 6.5 6.5 6.5

## 08235700 ALAMOSA RIVER BELOW CASTLEMAN GULCH NEAR JASPER, CO--Continued

pH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

			pri, wA	IEK, WHOLE	, FIELD, S	TANDARD (	JINII S, WAII	EKILAK	OCTOBER 1	990 IO SEF II	MIDER 19	91
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		I	AUGUST		S	EPTEMBE	R
1 2 3 4 5	6.0 6.1 5.7 5.7 6.2	5.4 5.6 5.3 5.3	5.6 5.9 5.5 5.5	6.6 6.8 6.8 6.7	6.3 6.6 6.7 6.7	6.5 6.7 6.8 6.7 6.6	6.1 6.1 5.7 5.6 5.7	5.7 5.3 5.1 5.1 4.8	5.9 5.8 5.5 5.4 5.3	5.9 5.9 5.9 6.0	5.8 5.8 5.8 5.8 5.9	5.8 5.9 5.9 5.9 6.0
6 7 8 9 10	6.3 6.3 6.2 6.2	6.2 6.0 6.1 5.8 5.5	6.2 6.2 6.1 6.0 5.8	6.7 6.6 6.4 6.3 6.3	6.5 6.4 6.3 6.2 5.3	6.6 6.5 6.4 6.3	5.8 5.3 4.8 5.4 5.5	4.3 4.7 4.7 4.8 4.7	5.5 5.0 4.7 5.3 5.2	6.1 6.1 6.0 6.4	6.0 6.1 6.0 6.0	6.1 6.0 6.0 6.2
11 12 13 14 15	6.7 6.9 6.8 6.8	6.3 6.7 6.7 6.7	6.6 6.8 6.8 6.8	5.3 5.7 6.0 6.1 6.3	5.1 5.7 6.0 6.0	5.2 5.2 5.9 6.1 6.1	4.8 5.5 6.0 6.1 6.0	4.7 4.6 5.5 5.0 5.3	4.8 4.8 5.8 5.9	6.4 6.4 6.1 6.1	6.2 5.9 5.4 5.9 5.8	6.3 6.2 6.0 6.0 5.9
16 17 18 19 20	6.8 5.3 6.4 6.5	5.1 4.9 5.2 6.4 5.8	6.3 5.0 5.5 6.4 6.3	6.3 6.2 6.1 6.0	6.1 5.9 5.6 5.5	6.2 6.1 5.9 5.8 5.9	5.8 5.6 5.3 5.4 5.2	5.3 5.2 4.5 5.0 5.1	5.7 5.4 5.2 5.3 5.2	5.8 5.7 5.6 5.5	5.3 5.7 5.6 5.5 5.4	5.7 5.8 5.6 5.5 5.4
21 22 23 24 25	6.1 5.5 6.0 6.9	5.3 5.1 5.2 6.0	5.7 5.3 5.4 6.4 6.8	6.3 6.8 6.4 6.0 5.4	5.9 6.1 5.8 5.2 5.1	6.1 6.3 6.2 5.4 5.2	5.2 5.9 6.1 5.7 6.3	5.1 5.2 4.6 4.9 5.2	5.2 5.6 5.8 5.5 6.0	6.3 6.8 6.9 6.9	4.3 6.0 6.8 6.8 6.6	5.5 6.5 6.9 6.9
26 27 28 29 30 31	6.7 6.3 6.2 6.2 6.3	6.3 6.1 6.0 6.0 6.0	6.4 6.2 6.1 6.1	5.6 5.7 5.7 5.8 6.0 5.9	5.4 5.5 5.2 5.6 5.4 5.4	5.6 5.6 5.5 5.7 5.7	6.4 6.4 6.3 6.1 6.0 5.8	5.0 6.2 6.1 6.0 5.6 5.4	5.9 6.4 6.2 6.1 5.9 5.7	6.9 6.8 6.7 6.6 6.4	6.8 6.7 6.6 6.4 6.3	6.8 6.7 6.5 6.4
MONTH	6.9	4.9	6.1	6.8	5.1	6.0	6.4	4.3	5.5	6.9	4.3	6.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DE	CEMBER			JANUARY	
1	12.9	3.1	7.8									
2	11.1	3.7	7.0									
3		4.7										
4												
5												
6												
7												
8												
9												
10												
11												
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24												
25												
26												
27												
28												
29												
30												
31												
MONTH												

451 RIO GRANDE BASIN

				TEMPERATO	KL, WAII	EK (DEG. C),	WAIEK YEA	IK OCTOL	ER 1770 10	DEI TEMBER	1777	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1							6.7	0	2.7	4.1	7	2.0
2							4.7	.0	2.7	9.6	. 7 . 0	3.4
3							6.7	. 4	3.0	11.7	.0	4.8
4							5.4	. 3	2.3	11.7	. 4	5.1
5							2.1	. 0	.3	9.7	.8	4.4
6							2.4	.0	.6	8.4	1.0	3.6
7							4.8	. 0	1.7	6.9	. 9	3.2
8 9							7.7 4.9	.0	2.8	7.5 4.2	. 6 . 5	3.5 2.0
10							3.9	.0	1.7	9.7	.5	4.0
1.1									0 0	0.6		4 1
11 12							6.8 5.5	. 0	2.0 1.7	8.6 9.9	.8 1.3	4.1 4.3
13							6.8	.0	2.4	10.0	. 8	4.1
14							8.5	. 0	3.3	7.1	1.0	3.4
15							9.6	. 0	3.9	7.8	1.1	3.1
16							9.1	. 2	4.6	6.4	1.3	3.0
17					.0	1 2	10.7	. 0	4.5	9.0	1.3	3.7
18 19				4.8 4.3	.0	1.3	9.1 9.6	. 0	4.0 3.7	7.6 5.5	$\frac{1.4}{1.5}$	3.5 3.1
20				4.7	.0	1.3	10.1	.0	3.5	8.2	1.6	3.9
0.1				4 -	•	1 4	0 7	4	2 1	F 0	2.0	2 4
21 22				4.5 4.9	. 0	1.4 1.6	8.7 8.3	. 4	3.1 2.9	5.8 6.1	2.0	3.4 3.7
23				5.7	.0	2.0	5.1	.0	1.9	7.0	1.4	3.6
24				4.4	. 0	1.5	6.9	. 0	1.6	5.9	1.6	3.3
25				6.2	. 0	2.2	2.7	. 0	1.1	7.1	1.0	3.6
26				6.5	.0	2.5	8.1	.0	3.0	8.4	1.3	4.2
27				7.0	. 0	2.6	11.8	.0	5.0	7.9	.6	3.8
28 29				7.9 7.1	. 0	2.9 2.8	7.5 8.8	1.2 .7	3.9 3.7	8.1 9.9	1.4 1.8	4.3 4.7
30				6.9	.0	2.5	10.0	.0	4.0	8.3	2.3	4.4
31				6.4	.0	2.3				8.9	2.1	4.7
MONTH							11 0	0	0 0	11 7	. 0	3.7
MONTH							11.8	. 0	2.8	11.7	. 0	3.1
MONTH							11.8	.0	2.8	11.7	.0	3.7
MONTH		JUNE			JULY			AUGUST	2.8		SEPTEMBE	
1	9.8	JUNE 2.2	4.8	13.4	JULY 3.8	8.5	16.0	AUGUST 8.1	12.1	14.3	SEPTEMBE	R 11.5
1 2	9.8 9.0	JUNE 2.2 2.0	4.8 4.5	13.4 13.9	JULY 3.8 2.7	8.5 8.4	16.0 12.9	AUGUST 8.1 8.8	12.1 11.2	14.3 15.2	SEPTEMBE 9.1 8.2	11.5 11.4
1 2 3	9.8 9.0 10.0	JUNE 2.2 2.0 2.0	4.8 4.5 5.1	13.4 13.9 14.2	JULY 3.8 2.7 3.6	8.5 8.4 8.9	16.0 12.9 15.7	8.1 8.8 9.3	12.1 11.2 12.0	14.3 15.2 12.4	9.1 8.2 8.1	11.5 11.4 10.5
1 2	9.8 9.0	JUNE 2.2 2.0	4.8 4.5	13.4 13.9	JULY 3.8 2.7	8.5 8.4	16.0 12.9	AUGUST 8.1 8.8	12.1 11.2	14.3 15.2	SEPTEMBE 9.1 8.2	11.5 11.4
1 2 3 4 5	9.8 9.0 10.0 10.5 8.3	JUNE 2.2 2.0 2.0 2.5 2.4	4.8 4.5 5.1 5.3 4.9	13.4 13.9 14.2 14.4 12.6	JULY 3.8 2.7 3.6 3.7 4.0	8.5 8.4 8.9 8.9	16.0 12.9 15.7 13.6 15.2	8.1 8.8 9.3 9.6 9.6	12.1 11.2 12.0 11.3 11.8	14.3 15.2 12.4 14.0 13.5	9.1 8.2 8.1 8.3 7.5	11.5 11.4 10.5 11.1 10.7
1 2 3 4	9.8 9.0 10.0 10.5	JUNE 2.2 2.0 2.0 2.5	4.8 4.5 5.1 5.3	13.4 13.9 14.2 14.4	JULY 3.8 2.7 3.6 3.7	8.5 8.4 8.9 8.9	16.0 12.9 15.7 13.6	8.1 8.8 9.3 9.6	12.1 11.2 12.0 11.3	14.3 15.2 12.4 14.0	9.1 8.2 8.1 8.3	11.5 11.4 10.5 11.1
1 2 3 4 5	9.8 9.0 10.0 10.5 8.3 7.5 7.6 5.8	JUNE 2.2 2.0 2.0 2.5 2.4 2.5 3.8 2.9	4.8 4.5 5.1 5.3 4.9 4.7 5.1 4.1	13.4 13.9 14.2 14.4 12.6 12.7 10.6 11.5	JULY  3.8 2.7 3.6 3.7 4.0  4.0 4.9 4.5	8.5 8.4 8.9 8.9 8.3 8.7 7.8	16.0 12.9 15.7 13.6 15.2 13.5 13.1 15.4	8.1 8.8 9.3 9.6 9.6	12.1 11.2 12.0 11.3 11.8	14.3 15.2 12.4 14.0 13.5 14.0 14.6 15.0	9.1 8.2 8.1 8.3 7.5 8.3 7.5	11.5 11.4 10.5 11.1 10.7
1 2 3 4 5 6 7 8	9.8 9.0 10.0 10.5 8.3 7.5 7.6 5.8 6.4	JUNE 2.2 2.0 2.0 2.5 2.4 2.5 3.8 2.9 2.3	4.8 4.5 5.1 5.3 4.9 4.7 5.1 4.1	13.4 13.9 14.2 14.4 12.6 12.7 10.6 11.5 10.5	JULY  3.8 2.7 3.6 3.7 4.0  4.0 4.9 4.5 4.8	8.5 8.4 8.9 8.9 8.3 8.7 7.8 8.1	16.0 12.9 15.7 13.6 15.2 13.5 13.1 15.4	8.1 8.8 9.3 9.6 9.6 7.7 8.3 7.2 7.5	12.1 11.2 12.0 11.3 11.8 10.5 10.4 11.3 10.9	14.3 15.2 12.4 14.0 13.5 14.6 15.0 11.6	9.1 8.2 8.1 8.3 7.5 8.3 7.5 8.3	11.5 11.4 10.5 11.1 10.7 10.9 10.9 11.2 10.4
1 2 3 4 5	9.8 9.0 10.0 10.5 8.3 7.5 7.6 5.8	JUNE 2.2 2.0 2.5 2.4 2.5 3.8 2.9 2.3 3.7	4.8 4.5 5.1 5.3 4.9 4.7 5.1 4.1 4.1 6.1	13.4 13.9 14.2 14.4 12.6 12.7 10.6 11.5	JULY  3.8 2.7 3.6 3.7 4.0  4.0 4.9 4.5 4.8 5.1	8.5 8.4 8.9 8.9 8.3 8.7 7.8 7.8 8.1 8.8	16.0 12.9 15.7 13.6 15.2 13.5 13.1 15.4	8.1 8.8 9.3 9.6 9.6 7.7 8.3 7.2 7.5	12.1 11.2 12.0 11.3 11.8 10.5 10.4 11.3 10.9	14.3 15.2 12.4 14.0 13.5 14.0 14.6 15.0	9.1 8.2 8.1 8.3 7.5 8.3 7.5 8.3 7.3 7.6 8.8 7.3	11.5 11.4 10.5 11.1 10.7
1 2 3 4 5 6 7 8 9 10	9.8 9.0 10.0 10.5 8.3 7.5 7.6 6.4 10.8	JUNE 2.2 2.0 2.0 2.5 2.4 2.5 3.8 2.9 2.3 3.7 2.5	4.8 4.5 5.1 5.3 4.9 4.7 5.1 4.1 4.1 6.1	13.4 13.9 14.2 14.4 12.6 12.7 10.6 11.5 10.5 11.7	JULY  3.8 2.7 3.6 3.7 4.0 4.0 4.9 4.5 4.8 5.1 7.3	8.5 8.4 8.9 8.9 8.3 8.7 7.8 8.1 8.1 8.8	16.0 12.9 15.7 13.6 15.2 13.5 13.1 15.4 14.0 14.0	8.1 8.8 9.3 9.6 9.6 7.7 8.3 7.2 7.5 9.5	12.1 11.2 12.0 11.3 11.8 10.5 10.4 11.3 10.9 11.1	14.3 15.2 12.4 14.0 13.5 14.0 14.6 15.0 11.6 13.4	9.1 8.2 8.1 8.3 7.5 8.3 7.6 8.8 7.3	11.5 11.4 10.5 11.1 10.7 10.9 10.9 11.2 10.4 10.5
1 2 3 4 5 6 7 8 9 10	9.8 9.0 10.0 10.5 8.3 7.5 7.6 5.8 6.4 10.8	JUNE 2.2 2.0 2.0 2.5 2.4 2.5 3.8 2.9 2.3 3.7 2.5 2.3	4.8 4.5 5.1 5.3 4.9 4.7 5.1 4.1 4.1 6.1 6.0 5.9	13.4 13.9 14.2 14.4 12.6 12.7 10.6 11.5 10.5 11.7	JULY  3.8 2.7 3.6 3.7 4.0  4.0 4.9 4.5 4.8 5.1  7.3 5.1	8.5 8.4 8.9 8.9 8.3 8.7 7.8 7.8 8.1 8.8	16.0 12.9 15.7 13.6 15.2 13.5 13.1 15.4 14.0 14.0	8.1 8.8 9.3 9.6 9.6 7.7 8.3 7.2 7.5 9.5	12.1 11.2 12.0 11.3 11.8 10.5 10.4 11.3 10.9 11.1	14.3 15.2 12.4 14.0 13.5 14.6 15.0 11.6 13.4	9.1 8.2 8.1 8.3 7.5 8.3 7.5 8.3 7.3 7.6 8.8 7.3	11.5 11.4 10.5 11.1 10.7 10.9 10.9 11.2 10.5 10.5
1 2 3 4 5 6 7 8 9 10	9.8 9.0 10.0 10.5 8.3 7.5 7.6 5.8 6.4 10.8	JUNE 2.2 2.0 2.0 2.5 2.4 2.5 3.8 2.9 2.3 3.7 2.5	4.8 4.5 5.1 5.3 4.9 4.7 5.1 4.1 4.1 6.1	13.4 13.9 14.2 14.4 12.6 12.7 10.6 11.5 10.5 11.7	JULY  3.8 2.7 3.6 3.7 4.0 4.0 4.9 4.5 4.8 5.1 7.3	8.5 8.4 8.9 8.9 8.3 8.7 7.8 8.1 8.1 8.9 9.2 9.9 10.3 11.1	16.0 12.9 15.7 13.6 15.2 13.5 13.1 15.4 14.0 14.0 13.4 15.2 14.7	8.1 8.8 9.3 9.6 9.6 7.7 8.3 7.5 9.5	12.1 11.2 12.0 11.3 11.8 10.5 10.4 11.3 10.9 11.1 9.8 10.7 11.1	14.3 15.2 12.4 14.0 13.5 14.6 15.0 11.6 13.4 14.6 16.0 13.4	9.1 8.2 8.1 8.3 7.5 8.3 7.6 8.8 7.3	11.5 11.4 10.5 11.1 10.7 10.9 10.9 11.2 10.4 10.5
1 2 3 4 5 6 7 8 9 10	9.8 9.0 10.0 10.5 8.3 7.5 7.6 5.8 6.4 10.8	JUNE 2.2 2.0 2.5 2.4 2.5 3.8 2.9 2.3 3.7 2.5 2.3 3.0	4.8 4.5 5.1 5.3 4.9 4.7 5.1 4.1 4.1 6.1 6.0 5.8	13.4 13.9 14.2 14.4 12.6 12.7 10.6 11.5 10.5 11.7	JULY  3.8 2.7 3.6 3.7 4.0 4.0 4.9 4.5 4.8 5.1 7.3 5.1 4.7	8.5 8.4 8.9 8.9 8.3 8.7 7.8 7.8 8.1 8.1 8.8	16.0 12.9 15.7 13.6 15.2 13.5 13.1 15.4 14.0 14.0	8.1 8.8 9.3 9.6 9.6 7.7 8.3 7.5 9.5	12.1 11.2 12.0 11.3 11.8 10.5 10.4 11.3 10.9 11.1	14.3 15.2 12.4 14.0 13.5 14.6 15.0 11.6 13.4	9.1 8.2 8.1 8.3 7.5 8.3 7.5 8.3 7.6 8.8 7.3	11.5 11.4 10.5 11.1 10.7 10.9 11.2 10.4 10.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	9.8 9.0 10.0 10.5 8.3 7.5 7.6 5.8 6.4 10.8 11.2 11.0 9.2 11.4	JUNE 2.2 2.0 2.5 2.4 2.5 3.8 2.9 2.3 3.7 2.5 2.3 3.0 2.8 2.6	4.8 4.5 5.1 5.3 4.9 4.7 5.1 4.1 4.1 6.1 6.0 5.8 6.2 6.0	13.4 13.9 14.2 14.4 12.6 12.7 10.6 11.5 10.5 11.7	JULY  3.8 2.7 3.6 3.7 4.0 4.0 4.9 4.5 4.8 5.1 7.3 5.1 4.7 5.4	8.5 8.4 8.9 8.9 8.3 8.7 7.8 7.8 8.1 8.8 9.2 9.9 10.3 11.1	16.0 12.9 15.7 13.6 15.2 13.5 13.1 15.4 14.0 14.0 13.4 15.2 14.7 13.1 16.6	8.1 8.8 9.3 9.6 9.6 7.7 8.3 7.2 7.5 9.5 9.5	12.1 11.2 12.0 11.3 11.8 10.5 10.4 11.3 10.9 11.1 9.8 10.7 11.1 10.2	14.3 15.2 12.4 14.0 13.5 14.6 15.0 11.6 13.4 14.6 16.0 13.4 15.2	9.1 8.2 8.1 8.3 7.5 8.3 7.5 8.3 7.6 8.8 7.3 7.6 8.8 7.3	11.5 11.4 10.5 11.1 10.7 10.9 11.2 10.4 10.5 11.2 9.8 10.7 9.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	9.8 9.0 10.0 10.5 8.3 7.5 7.6 5.8 6.4 10.8 11.2 11.0 9.2 11.4 10.7	JUNE 2.2 2.0 2.0 2.5 2.4 2.5 3.8 2.9 2.3 3.7 2.5 2.3 3.0 2.8 2.6	4.8 4.5 5.1 5.3 4.9 4.7 5.1 4.1 6.1 6.0 5.9 5.8 6.0 5.4 6.2	13.4 13.9 14.2 14.4 12.6 12.7 10.6 11.5 11.7 11.0 15.4 15.9 16.5 14.6	JULY  3.8 2.7 3.6 3.7 4.0 4.0 4.9 4.5 4.8 5.1 7.3 5.1 4.7 6.7	8.5 8.4 8.9 8.9 8.3 8.7 7.8 8.1 8.1 8.8 9.2 9.9 10.3 11.1 11.0	16.0 12.9 15.7 13.6 15.2 13.5 13.1 15.4 14.0 14.0 14.0 13.4 15.2 14.7 13.1 16.6	8.1 8.8 9.3 9.6 9.6 7.7 8.3 7.5 9.5 6.3 7.5 9.5	12.1 11.2 12.0 11.3 11.8 10.5 10.4 11.3 10.9 11.1 9.8 10.7 11.1 10.2 10.9	14.3 15.2 12.4 14.0 13.5 14.6 15.0 11.6 13.4 14.6 16.0 13.4 14.6 16.3 13.4	9.1 8.2 8.1 8.3 7.5 8.3 7.3 7.6 8.8 7.3 7.1 7.5 6.5 7.0 6.4	11.5 11.4 10.5 11.1 10.7 10.9 11.2 10.4 10.5 10.5 11.2 9.8 10.7 9.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	9.8 9.0 10.0 10.5 8.3 7.5 7.6 5.8 6.4 10.8 11.2 11.0 9.2 11.4 10.7	JUNE  2.2 2.0 2.5 2.4 2.5 3.8 2.9 2.3 3.7 2.5 2.3 3.0 2.8 2.6	4.8 4.5 5.1 5.3 4.9 4.7 5.1 4.1 4.1 6.1 6.0 5.8 6.2 6.0 5.4 6.2 7.4	13.4 13.9 14.2 14.4 12.6 12.7 10.6 11.5 10.5 11.7 11.0 15.4 15.9 16.5 14.6	JULY  3.8 2.7 3.6 3.7 4.0 4.0 4.9 4.5 4.8 5.1 7.3 5.4 6.7 6.8 6.9 6.5	8.5 8.4 8.9 8.9 8.3 8.7 7.8 8.1 8.1 8.8 9.2 9.9 10.3 11.1 11.0	16.0 12.9 15.7 13.6 15.2 13.5 13.1 15.4 14.0 14.0 13.4 15.2 14.7 13.1 16.6	8.1 8.8 9.3 9.6 7.7 8.3 7.2 7.5 9.5 9.5 9.5 9.6 7.6 9.6	12.1 11.2 12.0 11.3 11.8 10.5 10.4 11.3 10.9 11.1 9.8 10.7 11.1 10.2 10.9	14.3 15.2 12.4 14.0 13.5 14.6 15.0 11.6 13.4 14.6 16.0 13.4 15.2 14.8 14.6 15.9	9.1 8.2 8.1 8.3 7.5 8.3 7.6 8.8 7.3 7.6 8.8 7.3 7.1 7.5 6.5 7.0 6.4	11.5 11.4 10.5 11.1 10.7 10.9 11.2 10.4 10.5 11.5 11.7 9.8 10.7 9.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	9.8 9.0 10.0 10.5 8.3 7.5 7.6 5.8 6.4 10.8 11.2 11.0 9.2 11.4 10.7	JUNE 2.2 2.0 2.0 2.5 2.4 2.5 3.8 2.3 3.7 2.5 2.3 3.0 2.8 2.6 2.3 3.0 3.7 3.6	4.8 4.5 5.1 5.3 4.9 4.7 5.1 4.1 4.1 6.1 6.0 5.8 6.2 6.0 5.4 6.2 7.1	13.4 13.9 14.2 14.4 12.6 12.7 10.6 11.5 10.5 11.7 11.0 15.4 15.9 16.5 14.6	JULY  3.8 2.7 3.6 3.7 4.0 4.0 4.9 4.5 4.8 5.1 7.3 5.1 4.7 5.4 6.7 6.8 6.9 6.5 7.0	8.5 8.4 8.9 8.9 8.3 8.7 7.8 8.1 8.8 9.2 9.9 10.3 11.1 11.0	16.0 12.9 15.7 13.6 15.2 13.5 13.1 15.4 14.0 14.0 13.4 15.2 14.7 13.1 16.6 17.1 16.3 13.6 15.4	8.1 8.8 9.3 9.6 9.6 7.7 8.3 7.2 7.5 9.5 6.3 6.3 7.5 9.5	12.1 11.2 12.0 11.3 11.8 10.5 10.4 11.3 10.9 11.1 9.8 10.7 11.1 10.2 10.9	14.3 15.2 12.4 14.0 13.5 14.0 14.6 15.0 11.6 13.4 14.6 16.0 13.4 14.6 15.2 13.2	9.1 8.2 8.1 8.3 7.5 8.3 7.6 8.8 7.3 7.6 8.8 7.3 7.5 6.4 7.0 6.4 7.0 6.1 8.0 7.3	11.5 11.4 10.5 11.1 10.7 10.9 10.9 11.2 10.4 10.5 11.5 11.7 9.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	9.8 9.0 10.0 10.5 8.3 7.5 7.6 5.8 6.4 10.8 11.2 11.0 9.2 11.4 10.7 8.9 9.6 13.0 12.0	JUNE  2.2 2.0 2.5 2.4  2.5 3.8 2.9 2.3 3.7 2.5 2.3 3.0 2.8 2.6  2.3 3.7 3.6 3.2	4.8 4.5 5.1 5.3 4.9 4.7 5.1 4.1 4.1 6.1 6.0 5.8 6.2 6.0 5.4 7.4 7.1 7.2	13.4 13.9 14.2 14.4 12.6 12.7 10.6 11.5 10.5 11.7 11.0 15.4 15.9 16.5 14.6 11.9 12.2 10.5 12.3	JULY  3.8 2.7 3.6 3.7 4.0 4.0 4.9 4.5 4.8 5.1 7.3 5.4 6.7 6.8 6.9 6.5 7.0 8.0	8.5 8.4 8.9 8.9 8.3 8.7 7.8 7.8 8.1 8.8 9.2 9.9 10.3 11.1 11.0 10.1 10.0 8.7 9.6	16.0 12.9 15.7 13.6 15.2 13.5 13.1 15.4 14.0 14.0 14.0 15.2 14.7 13.1 16.6	8.1 8.8 9.3 9.6 7.7 8.3 7.2 7.5 9.5 9.5 9.5 9.6 7.6 9.6 9.6 9.6	12.1 11.2 12.0 11.3 11.8 10.5 10.4 11.3 10.9 11.1 9.8 10.7 11.1 10.2 10.9 11.9 11.9 11.6 11.2 10.8	14.3 15.2 12.4 14.0 13.5 14.6 15.0 11.6 13.4 14.6 16.0 13.4 15.2 13.2	9.1 8.2 8.1 8.3 7.5 8.3 7.6 8.8 7.3 7.6 8.8 7.3 7.1 7.5 6.5 7.0 6.4 7.0 6.1 8.0 7.3	11.5 11.4 10.5 11.1 10.7 10.9 11.2 10.4 10.5 11.5 11.2 9.8 10.7 9.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	9.8 9.0 10.0 10.5 8.3 7.5 7.6 5.8 6.4 10.8 11.2 11.0 9.2 11.4 10.7 8.9 9.6 13.0 12.0 12.7	JUNE  2.2 2.0 2.0 2.5 2.4  2.5 3.8 2.9 2.3 3.7 2.5 2.3 3.0 2.8 2.6 2.3 3.0 3.7 3.6 3.2	4.8 4.5 5.1 5.3 4.9 4.7 5.1 4.1 4.1 6.1 6.0 5.8 6.2 6.0 5.4 7.1 7.2 7.2	13.4 13.9 14.2 14.4 12.6 12.7 10.6 11.5 10.5 11.7 11.0 15.4 15.9 16.5 14.6 11.9 12.2 10.5 12.0 13.3	JULY  3.8 2.7 3.6 3.7 4.0 4.0 4.9 4.5 4.8 5.1 7.3 5.1 4.7 5.4 6.7 6.8 6.9 6.5 7.0 8.0 8.4	8.5 8.4 8.9 8.9 8.3 8.7 7.8 8.1 8.8 9.2 9.9 10.3 11.1 11.0	16.0 12.9 15.7 13.6 15.2 13.5 13.1 15.4 14.0 14.0 13.4 15.2 14.7 13.1 16.6 17.1 16.3 13.6 15.4	8.1 8.8 9.3 9.6 9.6 7.7 8.3 7.2 7.5 9.5 6.3 6.3 6.3 6.9 5.9	12.1 11.2 12.0 11.3 11.8 10.5 10.4 11.3 10.9 11.1 9.8 10.7 11.1 10.2 10.9 11.9 11.6 11.6 11.5	14.3 15.2 12.4 14.0 13.5 14.0 14.6 15.0 11.6 13.4 14.6 16.0 13.4 14.6 15.2 13.2	9.1 8.2 8.1 8.3 7.5 8.3 7.6 8.8 7.3 7.6 8.8 7.3 7.6 6.4 7.0 6.1 8.0 7.3 7.5	11.5 11.4 10.5 11.1 10.7 10.9 10.9 11.2 10.4 10.5 11.5 11.2 9.8 10.7 9.8 11.7 9.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	9.8 9.0 10.0 10.5 8.3 7.5 7.6 5.8 6.4 10.8 11.2 11.0 9.2 11.4 10.7 8.9 9.6 13.0 12.7 13.1 13.5	JUNE 2.2 2.0 2.0 2.5 2.4 2.5 3.8 2.9 2.3 3.7 2.5 2.3 3.0 2.8 2.6 2.3 3.0 3.7 3.6 3.2 3.0 3.4	4.8 4.5 5.1 5.3 4.9 4.7 5.1 4.1 4.1 6.1 6.0 5.8 6.2 7.4 7.2 7.2 7.6	13.4 13.9 14.2 14.4 12.6 12.7 10.6 11.5 10.5 11.7 11.0 15.4 15.9 16.5 14.6 11.9 12.2 10.5 12.3	JULY  3.8 2.7 3.6 3.7 4.0 4.0 4.9 4.5 4.8 5.1 7.3 5.1 4.7 6.7 6.8 6.9 6.5 7.0 8.0 8.4 7.1	8.5 8.4 8.9 8.9 8.3 8.7 7.8 7.8 8.1 8.8 9.2 9.9 10.3 11.1 11.0 10.1 10.0 8.7 9.6	16.0 12.9 15.7 13.6 15.2 13.5 13.1 15.4 14.0 14.0 13.4 15.2 14.7 13.1 16.6 17.1 16.3 13.6 15.4 15.6	8.1 8.8 9.3 9.6 7.7 8.3 7.2 7.5 9.5 9.5 9.5 9.6 7.6 9.6 9.6 9.6	12.1 11.2 12.0 11.3 11.8 10.5 10.4 11.3 10.9 11.1 9.8 10.7 11.1 10.2 10.9 11.9 11.9 11.6 11.2 10.8	14.3 15.2 12.4 14.0 13.5 14.6 15.0 11.6 13.4 14.6 16.0 13.4 15.2 13.2	9.1 8.2 8.1 8.3 7.5 8.3 7.6 8.8 7.3 7.6 8.8 7.3 7.1 7.5 6.5 7.0 6.4 7.0 6.1 8.0 7.3	11.5 11.4 10.5 11.1 10.7 10.9 11.2 10.4 10.5 11.5 11.2 9.8 10.7 9.8 11.4 11.0 9.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	9.8 9.0 10.0 10.5 8.3 7.5 7.6 5.8 6.4 10.8 11.2 11.0 9.2 11.4 10.7 8.9 9.6 13.0 12.7 13.5 13.5 13.5	JUNE  2.2 2.0 2.5 2.4  2.5 3.8 2.9 2.3 3.7 2.5 2.3 3.0 2.8 2.6  2.3 3.0 3.7 3.6 3.2 3.0 3.4 3.7 3.4	4.8 4.5 5.1 5.3 4.9 4.7 5.1 4.1 4.1 6.1 6.0 5.8 6.2 6.0 7.1 7.2 7.6 7.6 7.6	13.4 13.9 14.2 14.4 12.6 12.7 10.6 11.5 10.5 11.7 11.0 15.4 15.9 16.5 14.6 11.9 12.2 10.5 12.0 13.3	JULY  3.8 2.7 3.6 3.7 4.0 4.0 4.5 4.8 5.1 7.3 5.1 4.7 5.4 6.7 6.8 6.9 6.5 7.0 8.0 8.4 7.1 7.0	8.5 8.4 8.9 8.9 8.3 8.7 7.8 8.1 8.8 9.2 9.9 10.3 11.1 11.0 10.1 10.0 8.7 9.6 10.8	16.0 12.9 15.7 13.6 15.2 13.5 13.1 15.4 14.0 14.0 13.4 15.2 14.7 13.1 16.6 17.1 16.3 13.6 15.4 15.6	8.1 8.8 9.3 9.6 9.6 7.7 8.3 7.2 7.5 9.5 6.3 6.3 6.3 7.6 7.6 9.6 9.6	12.1 11.2 12.0 11.3 11.8 10.5 10.4 11.3 10.9 11.1 9.8 10.7 11.1 10.2 10.9 11.6 11.2 10.8 11.5	14.3 15.2 12.4 14.0 13.5 14.0 14.6 15.0 11.6 13.4 14.6 15.2 13.2 14.8 14.6 15.2 13.2	SEPTEMBE  9.1 8.2 8.1 8.3 7.5 8.3 7.6 8.8 7.3 7.6 6.5 7.0 6.4 7.0 6.1 8.0 7.3 7.5 6.5 3.3 4.2 3.4	11.5 11.4 10.5 11.1 10.7 10.9 11.2 10.4 10.5 11.2 9.8 10.7 9.8 11.7 9.8 11.0 9.5 7.5 7.3 6.9 7.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	9.8 9.0 10.0 10.5 8.3 7.5 7.6 5.8 6.4 10.8 11.2 11.4 10.7 8.9 9.6 13.0 12.0 12.7 13.1 13.5 13.5	JUNE  2.2 2.0 2.0 2.5 2.4 2.5 3.8 2.9 2.3 3.7 2.5 2.3 3.0 2.8 2.6 2.3 3.7 3.6 3.7 3.6 3.7 3.6 3.7	4.8 4.5 5.1 5.3 4.9 4.7 5.1 4.1 4.1 6.1 6.0 5.8 6.2 6.0 5.4 7.1 7.2 7.2 7.8	13.4 13.9 14.2 14.4 12.6 12.7 10.6 11.5 10.5 11.7 11.0 15.4 15.9 16.5 14.6 11.9 12.2 10.5 12.3 13.3	JULY  3.8 2.7 3.6 3.7 4.0 4.0 4.9 4.5 4.8 5.1 7.3 5.4 6.7 6.8 6.5 7.0 8.0 8.4 7.1 7.4	8.5 8.4 8.9 8.9 8.3 8.7 7.8 7.8 8.1 8.8 9.2 9.9 10.3 11.1 11.0 10.1 10.0 8.7 9.6 10.8	16.0 12.9 15.7 13.6 15.2 13.5 13.1 15.4 14.0 14.0 14.0 15.2 14.7 13.1 16.6 17.1 16.3 13.6 15.4 15.4	8.1 8.8 9.3 9.6 7.7 8.3 7.2 7.5 9.5 6.3 7.5 6.9 5.9 7.6 9.6 8.8 7.7	12.1 11.2 12.0 11.3 11.8 10.5 10.4 11.3 10.9 11.1 9.8 10.7 11.1 10.2 10.9 11.9 11.6 11.2 10.8 11.5	14.3 15.2 12.4 14.0 13.5 14.6 15.0 11.6 13.4 14.6 16.0 13.4 15.2 13.2 14.8 14.6 15.9 15.1 11.4	9.1 8.2 8.1 8.3 7.5 8.3 7.6 8.8 7.3 7.6 8.8 7.3 7.1 7.5 6.5 7.0 6.4 7.0 6.1 8.0 7.3 7.5	11.5 11.4 10.5 11.1 10.7 10.9 11.2 10.4 10.5 11.5 11.2 9.8 10.7 9.8 11.4 11.0 9.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	9.8 9.0 10.0 10.5 8.3 7.5 7.6 5.8 6.4 10.8 11.2 11.0 9.2 11.4 10.7 8.9 9.6 13.0 12.7 13.5 13.5 13.5	JUNE  2.2 2.0 2.5 2.4  2.5 3.8 2.9 2.3 3.7 2.5 2.3 3.0 2.8 2.6  2.3 3.0 3.7 3.6 3.2 3.0 3.4 3.7 3.4	4.8 4.5 5.1 5.3 4.9 4.7 5.1 4.1 4.1 6.1 6.0 5.8 6.2 6.0 7.1 7.2 7.6 7.6 7.6	13.4 13.9 14.2 14.4 12.6 12.7 10.6 11.5 10.5 11.7 11.0 15.4 15.9 16.5 14.6 11.9 12.2 10.5 12.0 13.3	JULY  3.8 2.7 3.6 3.7 4.0 4.0 4.5 4.8 5.1 7.3 5.1 4.7 5.4 6.7 6.8 6.9 6.5 7.0 8.0 8.4 7.1 7.0	8.5 8.4 8.9 8.9 8.3 8.7 7.8 8.1 8.8 9.2 9.9 10.3 11.1 11.0 10.1 10.0 8.7 9.6 10.8	16.0 12.9 15.7 13.6 15.2 13.5 13.1 15.4 14.0 14.0 13.4 15.2 14.7 13.1 16.6 17.1 16.3 13.6 15.4 15.6	8.1 8.8 9.3 9.6 9.6 7.7 8.3 7.2 7.5 9.5 6.3 6.3 6.3 7.6 7.6 9.6 9.6	12.1 11.2 12.0 11.3 11.8 10.5 10.4 11.3 10.9 11.1 9.8 10.7 11.1 10.2 10.9 11.6 11.2 10.8 11.5	14.3 15.2 12.4 14.0 13.5 14.0 14.6 15.0 11.6 13.4 14.6 15.2 13.2 14.8 14.6 15.2 13.2	SEPTEMBE  9.1 8.2 8.1 8.3 7.5 8.3 7.6 8.8 7.3 7.6 6.5 7.0 6.4 7.0 6.1 8.0 7.3 7.5 6.5 3.3 4.2 3.4	11.5 11.4 10.5 11.1 10.7 10.9 11.2 10.4 10.5 11.2 9.8 10.7 9.8 11.7 9.8 11.0 9.5 7.5 7.3 6.9 7.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27	9.8 9.0 10.0 10.5 8.3 7.5 7.6 6.4 10.8 11.2 11.0 9.2 11.4 10.7 8.9 9.6 13.0 12.7 13.5 13.5 13.5 13.5 13.5 13.6 9.1 11.6	JUNE  2.2 2.0 2.5 2.4  2.5 3.8 2.9 2.3 3.7  2.5 2.3 3.0 2.8 2.6  2.3 3.0 3.7 3.6 3.2 3.0 3.4 3.7 3.6 3.2	4.8 4.5 5.1 5.3 4.9 4.7 5.1 4.1 4.1 6.1 6.0 5.8 6.2 7.1 7.2 7.6 8.7 7.4 7.8 7.4 6.7 7.3	13.4 13.9 14.2 14.4 12.6 12.7 10.6 11.5 10.5 11.7 11.0 15.4 15.9 16.5 14.6 11.9 12.2 10.5 13.3 13.3 17.6 14.4	JULY  3.8 2.7 3.6 3.7 4.0 4.09 4.5 4.8 5.1 7.3 5.1 4.7 5.4 6.7 6.8 6.9 6.5 7.0 8.0 8.4 7.1 7.4 7.9 8.6 8.4	8.5 8.4 8.9 8.9 8.3 8.7 7.8 8.1 8.8 9.2 9.9 10.3 11.1 11.0 10.1 10.0 8.7 9.6 10.8 10.8 10.1 11.1 11.1 11.1 11.1 11.1	16.0 12.9 15.7 13.6 15.2 13.5 13.1 15.4 14.0 14.0 13.4 15.2 14.7 13.1 16.6 17.1 16.3 13.6 15.4 15.6 17.1 16.3 17.1 16.3 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17	8.1 8.8 9.3 9.6 9.6 7.7 8.3 7.5 9.5 6.3 7.5 9.5 6.3 7.6 9.6 9.6 7.6 9.6 9.8 7.7	12.1 11.2 12.0 11.3 11.8 10.5 10.4 11.3 10.9 11.1 9.8 10.7 11.1 10.2 10.9 11.6 11.2 10.8 11.5 10.8 11.5	14.3 15.2 12.4 14.0 13.5 14.0 14.6 15.0 11.6 13.4 14.6 16.0 13.4 15.2 13.2 14.8 14.6 15.1 11.4 9.1 10.1 9.5 11.3 12.0 12.2 13.9	SEPTEMBE  9.1 8.2 8.1 8.3 7.5 8.3 7.66 8.8 7.3 7.66.4 7.0 6.4 7.0 6.1 8.0 7.5 6.5 5.3 4.2 4.5 6.6 6.1	11.5 11.4 10.5 11.1 10.7 10.9 11.2 10.4 10.5 10.5 11.2 9.8 10.7 9.8 11.4 11.0 9.5 7.5 7.3 6.9 7.1 8.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	9.8 9.0 10.0 10.5 8.3 7.5 7.6 5.8 6.4 10.8 11.2 11.4 10.7 8.9 9.6 13.0 12.0 12.7 13.1 13.5 13.4 12.6	JUNE  2.2 2.0 2.0 2.5 2.4 2.5 3.8 2.9 2.3 3.7 2.5 2.3 3.0 2.8 2.6 2.3 3.7 3.6 3.7 3.6 3.7 3.6 3.7 3.7 3.9	4.8 4.5 5.1 5.3 4.9 4.7 5.1 4.1 4.1 6.0 5.8 6.2 6.0 5.4 7.1 7.2 7.6 7.4 7.4 7.6 7.4 7.4 7.6 7.4 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	13.4 13.9 14.2 14.4 12.6 12.7 10.6 11.5 10.5 11.7 11.0 15.4 15.9 16.5 14.6 11.9 12.2 10.5 12.0 13.3 13.1 10.3 13.3 17.6 14.4	JULY  3.8 2.7 3.6 3.7 4.0 4.0 4.5 4.8 5.1 7.3 5.4 6.7 6.8 6.5 7.0 8.0 8.4 7.1 7.4 7.0 9.8 8.4 9.3	8.5 8.4 8.9 8.9 8.3 8.7 7.8 8.1 8.8 9.2 9.9 10.3 11.1 11.0 10.1 10.1 10.0 8.7 9.6 10.8 10.8 10.1 11.1 11.6	16.0 12.9 15.7 13.6 15.2 13.5 13.1 15.4 14.0 14.0 14.0 15.2 14.7 13.1 16.6 17.1 16.3 13.6 15.4 15.4 15.4 17.1 13.6 15.4 17.1 13.6 15.2 14.7 13.6 15.2	8.1 8.8 9.3 9.6 7.7 8.3 7.2 7.5 9.6 6.3 7.5 6.9 7.6 9.6 6.8 7.7 8.3 9.6 8.3	12.1 11.2 12.0 11.3 11.8 10.5 10.4 11.3 10.9 11.1 9.8 10.7 11.1 10.2 10.9 11.9 11.6 11.2 10.8 11.5 11.5 10.5 11.5	14.3 15.2 12.4 14.0 13.5 14.6 15.0 11.6 13.4 14.6 16.0 13.4 15.2 13.2 14.8 14.6 15.9 15.1 11.4 9.1 11.3 12.0	SEPTEMBE  9.1 8.2 8.1 8.3 7.5 8.3 7.6 8.8 7.3 7.6 6.5 7.0 6.4 7.0 6.1 8.0 7.3 7.5 6.5 3.4 4.5 6.6 6.1 5.1	11.5 11.4 10.5 11.1 10.7 10.9 11.2 10.4 10.5 11.5 11.2 9.8 10.7 9.8 11.0 9.5 7.5 7.5 7.5 7.1 8.2
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	9.8 9.0 10.0 10.5 8.3 7.5 7.6 5.8 6.4 10.8 11.2 11.4 10.7 8.9 9.6 12.0 12.7 13.1 13.5 13.4 12.6 9.1 11.6 13.6 14.0	JUNE  2.2 2.0 2.5 2.4  2.5 3.8 2.9 2.3 3.7 2.5 2.3 3.0 2.8 2.6 2.3 3.0 3.4 3.7 3.4 3.6 3.9 3.7 3.9	4.8 4.5 5.1 5.3 4.9 4.7 5.1 4.1 6.1 6.0 5.8 6.2 6.2 7.1 7.2 7.6 7.6 7.4 6.7 7.3 8.6	13.4 13.9 14.2 14.4 12.6 12.7 10.6 11.5 10.5 11.7 11.0 15.4 15.9 16.5 14.6 11.9 12.2 10.5 12.0 13.3 13.1 10.3 13.1 10.3	JULY  3.8 2.7 3.6 3.7 4.0 4.0 4.9 4.5 4.8 5.1 7.3 5.4 6.7 6.8 6.9 6.7 6.8 6.9 7.0 8.0 8.4 7.1 7.0 7.9 8.6 8.4 9.3 9.3	8.5 8.4 8.9 8.9 8.3 8.7 7.8 8.1 8.8 9.2 9.9 10.3 11.1 11.0 10.1 10.0 8.7 9.6 10.8 10.8 11.1 11.6	16.0 12.9 15.7 13.6 15.2 13.5 13.1 15.4 14.0 14.0 13.4 15.2 14.7 13.1 16.6 17.1 16.3 15.4 15.6 14.9 12.9 12.9 13.6 13.3 17.3 17.9 17.8 17.8 17.8	8.1 8.8 9.3 9.6 9.6 7.7 8.3 7.2 7.5 9.5 6.3 7.5 6.9 5.9 7.6 7.6 9.6 8.8 7.7 8.3 9.6 9.6	12.1 11.2 12.0 11.3 11.8 10.5 10.4 11.3 10.9 11.1 9.8 10.7 11.1 10.2 10.9 11.6 11.6 11.5 10.8 11.5	14.3 15.2 12.4 14.0 13.5 14.0 14.6 15.0 11.6 13.4 14.6 16.0 13.4 15.2 13.2 14.8 14.6 15.9 15.1 11.4 9.1 10.1 9.5 11.3 12.0	SEPTEMBE  9.1 8.2 8.1 8.3 7.5 8.3 7.6 8.8 7.1 6.5 7.0 6.4 7.0 6.1 8.0 7.5 6.5 3.4 4.5 6.6 6.1 5.7	11.5 11.4 10.5 11.1 10.7 10.9 11.2 10.4 10.5 11.2 9.8 10.7 9.8 11.7 9.8 11.0 9.5 7.5 7.3 6.9 7.1 8.2 9.8 8.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	9.8 9.0 10.0 10.5 8.3 7.5 5.8 6.4 10.8 11.2 11.0 9.2 11.4 10.7 8.9 9.6 13.0 12.7 13.5 13.5 13.5 13.6 13.6 14.0 14.0 14.1	JUNE 2.2 2.0 2.5 2.4 2.5 3.8 2.9 2.3 3.7 2.5 2.3 3.0 2.8 2.6 2.3 3.0 3.4 3.7 3.6 3.2 3.0 3.4 3.7 3.6 3.9 3.9	4.8 4.5 5.1 5.3 4.7 5.1 4.1 6.1 6.0 5.8 6.2 7.1 7.2 7.6 7.6 7.4 7.7 7.3 8.1 8.8	13.4 13.9 14.2 14.4 12.6 12.7 10.6 11.5 10.5 11.7 11.0 15.4 15.9 16.5 14.6 11.9 12.2 10.5 13.3 13.3 13.1 10.3 13.3 14.4 14.4	JULY  3.8 2.7 3.6 3.7 4.0 4.09 4.5 4.8 5.1 7.3 5.1 4.7 5.4 6.7 6.8 6.9 6.9 6.0 8.4 7.1 7.4 7.9 8.6 8.4 9.3 9.7	8.5 8.4 8.9 8.9 8.3 8.7 7.8 8.1 8.8 9.2 9.9 10.3 11.1 11.0 10.1 10.0 8.7 9.6 10.8 10.8 11.1 11.6	16.0 12.9 15.7 13.6 15.2 13.5 13.1 15.4 14.0 14.0 13.4 15.2 14.7 13.1 16.6 17.1 16.3 13.6 15.4 15.4 15.6 17.1 16.3 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17	8.1 8.8 9.3 9.6 9.6 7.7 8.3 7.5 9.5 6.3 7.6 9.6 9.6 9.7 8.3 7.5 9.5 9.6 9.6 9.5 9.5 9.6 9.5 9.5 9.6 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5	12.1 11.2 12.0 11.3 11.8 10.5 10.4 11.3 10.9 11.1 10.2 10.9 11.6 11.2 10.8 11.5 11.5 10.8 11.5 11.5 11.5 11.8	14.3 15.2 12.4 14.0 13.5 14.6 15.0 11.6 13.4 14.6 15.2 13.2 14.8 14.6 15.2 13.2 14.8 14.6 15.9 15.1 11.4	SEPTEMBE  9.1 8.2 8.1 8.3 7.5 8.3 7.66 8.8 7.3 7.66.4 7.0 6.1 8.0 7.5 6.5 3.4 4.5 6.6 6.1 5.1 5.2	11.5 11.4 10.5 11.1 10.7 10.9 10.9 11.2 10.4 10.5 11.2 9.8 10.7 9.8 11.4 11.0 9.5 7.5 7.3 6.9 7.1 8.2 9.8 8.8 9.2 8.9

# 08236000 ALAMOSA RIVER ABOVE TERRACE RESERVOIR, CO WATER-QUALITY RECORDS

LOCATION.--Lat 37°22'29", long 106°20'03", in NW¹/₄NE¹/₄ sec.17, T.36 N., R.6 E., Conejos County, Hydrologic Unit 13010002, on left bank 0.8 mi upstream from high-water line of Terrace Reservoir at elevation 8,568 ft, 3.0 mi downstream from French Creek, and 15 mi northwest of Capulin.

PERIOD OF RECORD.--June 1994 to current year (seasonal only). Published as "Alamosa Creek" prior to October 1994.

REVISED RECORDS.--Water-temperature data for this station, originally published in WDR CO 95-1, was in error. Correct data for water year October 1994 to September 1995 are published in WDR CO 96-1.

#### PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: June 1994 to current year (seasonal record only).

pH: June 1994 to current year (seasonal record only).

WATER TEMPERATURE: June 1994 to current year (seasonal record only).

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Records for daily specific conductance are fair. Records for daily pH are fair except for Oct. 1-3 and Mar. 19-31, which are poor. Records for daily water temperature are fair. Daily data that are not published during period of seasonal operation (Oct. 1-3 and Mar. 19 to Sept. 30) are either missing or of unacceptable quality.

#### EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum during period of seasonal operation, 676 microsiemens, Sept. 14, 1994; minimum, 82 microsiemens, June 20, 1995.

pH: Maximum during period of seasonal operation, 7.6 units, Aug. 1, 1994; minimum, 3.5 units, Aug. 11, 1994.

WATER TEMPERATURE: Maximum during period of seasonal operation, 21.3°C, July 6, 21, 1996; minimum, 0.0°C, many days.

## EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum during period of seasonal operation, 480 microsiemens, Oct. 2; minimum, 85 microsiemens, June 13.

pH: Maximum during period of seasonal operation, 7.4 units, May 4-5; minimum, 4.7 units, Aug. 11-12.

WATER TEMPERATURE: Maximum during period of seasonal operation, 18.2°C, Aug. 3; minimum, 0.0°C, several days.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	VEMBER		DE	CEMBER		Ċ	JANUARY	7
1	440	380	405									
2	480	432	469									
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
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23												
24												
25												
26												
27												
28												
29												
30												
31												
31												
MONTH												

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# 08236000 ALAMOSA RIVER ABOVE TERRACE RESERVOIR, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	1	FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5		  	  		  		274 278 284 287 294	265 270 278 283 283	271 274 280 285 286	221 226 230 221 200	206 212 218 200 170	211 220 224 214 183
6 7 8 9 10	  	  	  	  	  	  	308 319 313 305 307	294 286 286 295 302	301 294 297 300 304	170 138 137 137 151	136 129 129 125 137	145 133 132 129 144
11 12 13 14 15		  		  	  		314 326 327 331 332	300 298 300 305 310	306 310 311 315 320	149 144 140 135 253	141 134 122 119 108	145 140 132 128 135
16 17 18 19 20	  	  	  	  325 319	  304 282	  314 307	433 466 357 305 261	324 354 305 261 218	379 410 323 282 230	232 172 133 148 144	172 110 101 100 122	219 151 121 115 138
21 22 23 24 25		  	  	304 280 284 292 295	263 260 260 278 276	289 271 273 284 284	218 217 214 216 214	203 211 211 209 209	210 214 213 212 212	122 109 114 122 148	98 103 102 104 122	113 105 107 111 138
26 27 28 29 30 31		  	  	300 301 301 297 302 287	279 283 283 279 278 273	288 291 291 287 289 281	222 230 232 232 233	212 220 229 223 219	217 225 230 228 226	164 180 160 147 164 162	145 157 145 120 116 112	154 168 154 139 126 148
MONTH							466	203	276	253	98	149
		JUNE			JULY		A	UGUST		S	SEPTEMBE	R
1 2 3 4 5	116 101 126 125 115	95 86 96 96 91	108 93 110 109 103	141 154 159 166 167	117 134 126 126 147	128 143 146 149 157	247 257 257 268 262	192 235 231 237 193	223 244 243 251 222	282 287 300 290 266	249 268 193 245 220	268 277 247 263 247
6 7 8 9 10	106 116 120 138	90 101 103 115	99 109 112 127	174 174 185	140 156 159	160 165 175	239 321	211 206	223 235	262	244 261	254 268
11				190 203	158 161	176 180	319 319 	285 206 198	302 246 	276 289 294 290	275 272 247	282 285 263
12 13 14 15	121 106 97 101 94	91 88 85 91 88				176	319 319	285 206	302 246	289 294	275 272	285
13 14	106 97 101	91 88 85 91	104 98 92 95	203 217 226 214 200	161 192 202 159 180	176 180 203 213 183 190	319 319  301 261 198	285 206 198  195 188	302 246   202 195	289 294 290 291 291 301 303	275 272 247 266 270 281 280	285 263 280 281 288 294
13 14 15 16 17 18 19	106 97 101 94  	91 88 85 91 88	104 98 92 95 90	203 217 226 214 200 203 211 215 221 242	161 192 202 159 180 164 191 178 188 202	176 180 203 213 183 190 185 200 204 206 216	319 319  301 261 198 213 207 269 274 274	285 206 198  195 188 190 202 207 257 229	302 246  202 195 198 204 240 267 253	289 294 290 291 291 301 303 303 303 287 298 312	275 272 247 266 270 281 280 286 208 262 284 253	285 263 280 281 288 294 295 264 277 291 279
13 14 15 16 17 18 19 20 21 22 23 24	106 97 101 94	91 88 85 91 88	104 98 92 95 90	203 217 226 214 200 203 211 215 221 242 227 224 231 230 272	161 192 202 159 180 164 191 178 188 202 211 181 194 211 210	176 180 203 213 183 190 185 200 204 216 219 200 204 217 224	319 319  301 261 198 213 207 269 274 274 283 289 287 278 315	285 206 198  195 188 190 202 207 257 229 267 280 248 250 238	302 246  202 195 198 204 240 267 253 276 282 271 264 273	289 294 290 291 291 301 303 303 287 298 312 316 308 168 179 198	275 272 247 266 270 281 280 286 208 262 284 253 306 147 144 154 178	285 263 280 281 288 294 295 264 277 291 279 311 239 159 165 187

## RIO GRANDE BASIN

# 08236000 ALAMOSA RIVER ABOVE TERRACE RESERVOIR, CO--Continued

pH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN									
DIII	111111				OVEMBER	HELIN			1111111	111111		
		OCTOBER						CEMBER			JANUARY	
1 2	6.8 6.8	6.7 6.8	6.8 6.8									
3	6.8	6.8	6.8									
4 5												
6												
7 8												
9												
10												
11												
12 13												
14												
15												
16 17												
18												
19												
20												
21 22												
23												
24												
25												
26 27												
28												
29 30												
31												
MONTH												
11011111												
		FEBRUARY			MARCH			APRIL			MAY	
1							6.7	6.4	6.6	7.2	7.1	7.2
2							6.7 6.8	6.6 6.6	6.7 6.8	7.2 7.2	7.1 7.1	7.2 7.2
4							6.8	6.7	6.7	7.4	7.1	7.2
5							6.7	6.6	6.7	7.4	7.1	7.2
6							6.8	6.6	6.7	7.3	6.9	7.2
7 8							6.9 6.8	6.5 6.5	6.7 6.7	7.3 7.1	7.0 7.0	7.1 7.0
9							6.8	6.6	6.7	7.1	7.0	7.0
10							6.8	6.7	6.8	7.0	6.9	7.0
11 12							6.8 6.9	6.7 6.6	6.7 6.7	7.0 7.0	6.9 6.9	7.0 7.0
13							7.0	6.5	6.7	7.0	6.1	6.9
14 15							6.9 6.9	6.7 6.6	6.8 6.8	6.6 6.5	6.1 5.1	6.4 6.2
16 17							6.7 5.8	5.3 5.3	5.8 5.4	5.2 5.8	5.0 5.2	5.0 5.5
18							6.3	5.7	5.9	6.3	5.6	6.1
19 20				6.3 5.6	5.4 5.3	5.7 5.5	6.4 6.3	6.0 6.0	6.2 6.1	6.6 5.9	5.9 5.6	6.4 5.8
21 22				5.8 5.9	5.4 5.7	5.6 5.7	6.2 6.1	6.1 6.0	6.1 6.1	6.4 6.4	5.7 6.3	6.1 6.4
23				5.9	5.8	5.8				6.4	6.3	6.4
24 25				6.1 6.2	5.9 6.0	6.0 6.1				6.4 6.3	6.3 5.9	6.3 6.0
26				6.3	6.1	6.2				5.9	5.7	5.8
27				6.4	6.2	6.3				6.2	5.6	5.8
28 29				6.4 6.5	6.2 6.3	6.3 6.4				6.5 6.5	6.1 5.9	6.3 6.3
30				6.6	6.4	6.5	7.1	7.0	7.0	6.7	5.3	6.4
31												F 3
				6.5	6.4	6.5				5.7	5.2	5.3

RIO GRANDE BASIN 455

08236000 ALAMOSA RIVER ABOVE TERRACE RESERVOIR, CO--Continued

			pH, WAT	ER, WHOLE	, FIELD, S	STANDARD I	JNITS, WAT	ER YEAR	OCTOBER 19	996 TO SEPT	EMBER 19	97
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		I	AUGUST		5	SEPTEMBE	R
1 2 3 4 5	6.2 6.4 6.2 6.1 6.3	5.6 5.7 5.7 5.8 5.9	5.9 6.1 6.0 6.0	6.5 7.1 7.2 7.2 7.2	6.3 6.4 7.1 7.1 7.1	6.4 6.7 7.1 7.2 7.2	6.7 6.7 6.4 6.3	6.4 6.4 6.1 6.1 5.4	6.6 6.6 6.3 6.3	6.8 6.9 6.9 6.9	6.7 6.8 6.5 6.6	6.8 6.7 6.8 6.8
6 7 8 9 10	6.6 6.7 6.7 6.8 6.7	6.3 6.4 6.5 6.6 6.3	6.5 6.6 6.7 6.6	7.2 7.2 7.1 7.1 7.1	7.1 7.1 7.1 7.1 7.1	7.2 7.2 7.1 7.1	6.5 6.1 5.1 5.6 5.8	6.0 4.9 4.8 4.8 5.1	6.3 5.6 4.9 5.2 5.6	6.8 6.8 6.8 6.8	6.7 6.8 6.7 6.7	6.8 6.8 6.8 6.7
11 12 13 14 15	7.0 7.1 6.9 6.4 6.3	6.6 6.9 6.4 6.2 6.2	6.8 7.1 6.6 6.3 6.3	7.1 6.0 6.7 6.9 7.0	6.0 5.8 5.8 6.7 6.9	6.3 5.9 6.4 6.8 7.0	5.1 5.0 6.8 6.9 6.8	4.7 4.7 5.0 6.7 6.1	4.9 4.8 6.5 6.8	6.8 6.7 6.7 6.8	6.7 6.4 6.6 6.5	6.7 6.6 6.7 6.7
16 17 18 19 20	6.3 6.2 6.2 6.2 6.2	6.1 6.1 6.0 6.0	6.2 6.2 6.1 6.2 6.1	7.2 7.1 7.0 6.9 6.9	7.0 7.0 6.9 6.7 6.8	7.1 7.1 6.9 6.8 6.9	6.8 6.7 6.7 6.6	6.8 6.6 6.6 6.0	6.8 6.7 6.6 6.4 6.5	6.7 6.7 6.7 6.6	6.4 6.6 6.6 6.6	6.6 6.7 6.6 6.6
21 22 23 24 25	6.2 6.4 6.4 7.1	6.0 6.1 6.2 6.3 7.0	6.1 6.2 6.3 6.6 7.1	6.9 7.0 7.0 6.8 6.4	6.7 6.8 6.8 6.4 5.8	6.8 6.9 6.9 6.7	6.6 6.8 6.9 6.9	6.3 6.4 6.7 5.4 6.2	6.5 6.6 6.8 6.5	6.6 6.9 7.0 7.2	5.0 6.4 6.9 7.0 6.7	6.2 6.7 6.9 7.0 7.1
26 27 28 29 30 31	7.1 6.8 6.6 6.4 6.4	6.7 6.5 6.3 6.3	6.9 6.6 6.5 6.4 6.3	6.0 6.2 6.3 6.3 6.7	5.7 6.0 6.2 6.2 6.3 6.2	5.8 6.1 6.2 6.3 6.4 6.5	7.0 6.9 6.9 6.8 6.9	5.9 6.7 6.9 6.8 6.8	6.5 6.8 6.9 6.9 6.8	7.2 7.2 7.2 	7.2 7.2 7.1 	7.2 7.2 7.2 

MONTH

7.1

5.6

6.4

7.2

5.7

6.7

7.0

4.7

6.3

#### TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAY MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN OCTOBER NOVEMBER DECEMBER TANTIARY ------1 13.2 5.2 8.9 ---------___ 11.2 5.8 ---------8.5 ---5.6 ------------------5 ---___ ___ ___ ___ ___ 6 7 ------------------------------------8 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 10 ------11 12 ___ ___ ___ ___ ---------------------------------13 ------___ ___ ---___ ___ 14 ___ ___ ___ ___ ___ ___ ___ 15 16 17 ___ ___ ___ ---___ ---------___ ------------------___ ___ ___ ___ ___ ---___ ___ 19 ___ ___ ___ ___ 20 21 ___ ___ ------23 ------------------------------------24 25 26 ------------------------___ 28 ---------------------------------------29 ---------31 ---------------------------MONTH ---------

# 08236000 ALAMOSA RIVER ABOVE TERRACE RESERVOIR, CO--Continued

							, WAIEK IE.					
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1							7.7			5.9		
2 3							4.6 7.4	.8	2.9	9.0 11.2	.0 .5	4.2 6.0
4							6.1			12.0	1.8	7.0
5							3.0	.0	1.0	10.4	1.9	6.1
6								. 0		8.6	1.8	4.9
7 8							5.8 7.8	. 0	2.2 3.5	7.6 7.9	1.5 1.1	4.2 4.5
9										4.8		
10										9.4	1.2	5.0
11							5.8	. 0	2.1	8.7	1.9	5.2
12 13							7.2	. 0	3.0	10.4		
14							8.8	.0	4.1	9.2	1.7	4.8
15							9.0			8.3	1.5	4.4
16							8.8 10.4			7.1 10.3	1.7	4.0
17 18							8.3			8.5	1.7 2.0	5.0 4.6
19				6.0	.0		8.9			6.7	2.1	4.1
20				6.1	. 0	2.1		. 6		9.1	2.0	4.8
21 22				5.8 5.8	.0	2.2 2.7	9.5 8.2	.9 .2	5.1 3.9	6.8 7.0	2.6 2.9	4.3 4.6
23				6.2	.1	3.1	5.0	. 2	2.9	7.9	1.9	4.7
24 25				5.1 5.5	.3	2.7 2.6	5.9 3.3	. 0	2.4 1.2	7.9 8.5	2.1 1.6	4.4 4.8
26 27				6.6 6.6	.1 1.0	3.3 3.8	10.9	.1		9.9	2.3 1.1	5.5
28					. 9		8.1			9.2	2.1	5.4
29 30							9.3 9.9	.4	5.1	10.7 9.5	2.3 3.0	6.1 5.6
31										10.1	2.6	6.0
MONTH												
		JUNE			JULY			AUGUST			SEPTEMBE	IR.
1	11.4		6.4	15.0	JULY 6.2	10.7	17.0	AUGUST	13.8	14.6	SEPTEMBE	12.5
1 2	9.8	JUNE 2.9 2.7	5.7	14.5	6.2 5.7	10.4	17.0 14.2	10.3 10.7	12.6	14.6 17.5	10.5 10.0	12.5 13.0
1 2 3 4	9.8 11.6 11.9	JUNE 2.9 2.7 2.7 3.2	5.7 6.4 6.8	14.5 14.8 14.6	6.2 5.7 5.8 6.2	10.4 10.6 10.7	17.0 14.2 18.2 13.8	10.3 10.7 10.7 11.1	12.6 14.0 12.5	14.6 17.5 13.9 15.0	10.5 10.0 9.7 9.7	12.5 13.0 11.7 12.3
1 2 3	9.8 11.6	JUNE 2.9 2.7 2.7	5.7 6.4	14.5 14.8	6.2 5.7 5.8	10.4 10.6	17.0 14.2 18.2	10.3 10.7 10.7	12.6 14.0	14.6 17.5 13.9	10.5 10.0 9.7	12.5 13.0 11.7
1 2 3 4 5	9.8 11.6 11.9 9.6	JUNE 2.9 2.7 2.7 3.2 3.2 3.2	5.7 6.4 6.8 6.0	14.5 14.8 14.6 12.3	6.2 5.7 5.8 6.2 6.4	10.4 10.6 10.7 9.8	17.0 14.2 18.2 13.8 15.1	10.3 10.7 10.7 11.1 11.0	12.6 14.0 12.5 12.8	14.6 17.5 13.9 15.0 13.4	10.5 10.0 9.7 9.7 9.3	12.5 13.0 11.7 12.3 11.7
1 2 3 4 5	9.8 11.6 11.9 9.6 8.8 8.3	JUNE 2.9 2.7 2.7 3.2 3.2 3.2 4.6	5.7 6.4 6.8 6.0 5.9 6.1	14.5 14.8 14.6 12.3 12.7 11.1	6.2 5.7 5.8 6.2 6.4 6.2 7.2	10.4 10.6 10.7 9.8 9.8 9.5	17.0 14.2 18.2 13.8 15.1 15.3 13.5	10.3 10.7 10.7 11.1 11.0 9.7 9.5	12.6 14.0 12.5 12.8 12.3 11.4	14.6 17.5 13.9 15.0 13.4	10.5 10.0 9.7 9.7 9.3 9.6 8.9	12.5 13.0 11.7 12.3 11.7
1 2 3 4 5 6 7 8 9	9.8 11.6 11.9 9.6 8.8 8.3 6.7	JUNE 2.9 2.7 2.7 3.2 3.2 3.2 4.6 3.7	5.7 6.4 6.8 6.0 5.9 6.1 5.0	14.5 14.8 14.6 12.3 12.7 11.1 12.0 12.6	6.2 5.7 5.8 6.2 6.4 6.2 7.2 6.4 6.8	10.4 10.6 10.7 9.8 9.8 9.5 9.2 9.8	17.0 14.2 18.2 13.8 15.1 15.3 13.5 14.6	10.3 10.7 10.7 11.1 11.0 9.7 9.5 8.9 9.3	12.6 14.0 12.5 12.8 12.3 11.4 12.5 12.3	14.6 17.5 13.9 15.0 13.4 13.9 16.0 16.6 12.9	10.5 10.0 9.7 9.7 9.3 9.6 8.9 9.2 10.2	12.5 13.0 11.7 12.3 11.7 11.8 12.4 12.8 11.7
1 2 3 4 5 6 7 8	9.8 11.6 11.9 9.6 8.8 8.3 6.7	JUNE 2.9 2.7 2.7 3.2 3.2 3.2 4.6 3.7	5.7 6.4 6.8 6.0 5.9 6.1 5.0	14.5 14.8 14.6 12.3 12.7 11.1 12.0	6.2 5.7 5.8 6.2 6.4 6.2 7.2 6.4	10.4 10.6 10.7 9.8 9.8 9.5 9.2	17.0 14.2 18.2 13.8 15.1 15.3 13.5 16.5	10.3 10.7 10.7 11.1 11.0 9.7 9.5 8.9	12.6 14.0 12.5 12.8 12.3 11.4 12.5	14.6 17.5 13.9 15.0 13.4 13.9 16.0 16.6	10.5 10.0 9.7 9.7 9.3 9.6 8.9 9.2	12.5 13.0 11.7 12.3 11.7
1 2 3 4 5 6 7 8 9 10	9.8 11.6 11.9 9.6 8.8 8.3 6.7 	JUNE 2.9 2.7 2.7 3.2 3.2 3.2 4.6 3.7 3.2	5.7 6.4 6.8 6.0 5.9 6.1 5.0 	14.5 14.8 14.6 12.3 12.7 11.1 12.0 12.6 12.0	6.2 5.7 5.8 6.2 6.4 6.2 7.2 6.4 6.8 7.0	10.4 10.6 10.7 9.8 9.8 9.5 9.2 9.8 9.7	17.0 14.2 18.2 13.8 15.1 15.3 13.5 16.5 14.6 15.1	10.3 10.7 10.7 11.1 11.0 9.7 9.5 8.9 9.3 11.0	12.6 14.0 12.5 12.8 12.3 11.4 12.5 12.3 12.6	14.6 17.5 13.9 15.0 13.4 13.9 16.0 16.6 12.9 13.3	10.5 10.0 9.7 9.7 9.3 9.6 8.9 9.2 10.2 8.5	12.5 13.0 11.7 12.3 11.7 11.8 12.4 12.8 11.7 11.2
1 2 3 4 5 6 7 8 9	9.8 11.6 11.9 9.6 8.8 8.3 6.7	JUNE 2.9 2.7 2.7 3.2 3.2 3.2 4.6 3.7	5.7 6.4 6.8 6.0 5.9 6.1 5.0	14.5 14.8 14.6 12.3 12.7 11.1 12.0 12.6 12.0	6.2 5.7 5.8 6.2 6.4 6.2 7.2 6.4 6.8 7.0	10.4 10.6 10.7 9.8 9.8 9.5 9.2 9.8 9.7	17.0 14.2 18.2 13.8 15.1 15.3 13.5 16.5 14.6	10.3 10.7 10.7 11.1 11.0 9.7 9.5 8.9 9.3 11.0	12.6 14.0 12.5 12.8 12.3 11.4 12.5 12.3 12.6	14.6 17.5 13.9 15.0 13.4 13.9 16.0 16.6 12.9	10.5 10.0 9.7 9.7 9.3 9.6 8.9 9.2 10.2 8.5	12.5 13.0 11.7 12.3 11.7 11.8 12.4 12.8 11.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14	9.8 11.6 11.9 9.6 8.8 8.3 6.7  12.1 11.7	JUNE 2.9 2.7 2.7 3.2 3.2 3.2 4.6 3.7 3.2 3.1 3.9 3.8	5.7 6.4 6.8 6.0 5.9 6.1 5.0  7.4 7.2 7.1 7.6	14.5 14.8 14.6 12.3 12.7 11.1 12.0 12.6 12.0	6.2 5.7 5.8 6.2 6.4 6.2 7.2 6.4 6.8 7.0 9.4 7.0 7.5 8.5	10.4 10.6 10.7 9.8 9.5 9.2 9.8 9.7	17.0 14.2 18.2 13.8 15.1 15.3 13.5 16.5 14.6 15.1 13.9 15.6 15.5	10.3 10.7 10.7 11.1 11.0 9.7 9.5 8.9 9.3 11.0 8.0 8.2 9.4 8.8	12.6 14.0 12.5 12.8 12.3 11.4 12.5 12.3 12.6 11.1 11.8 12.6 11.7	14.6 17.5 13.9 15.0 13.4 13.9 16.0 16.6 12.9 13.3 14.5 16.3 14.5	10.5 10.0 9.7 9.7 9.3 9.6 8.9 9.2 10.2 8.5 8.9 9.0 8.9	12.5 13.0 11.7 12.3 11.7 11.8 12.4 12.8 11.7 11.2
1 2 3 4 5 6 7 8 9 10	9.8 11.6 11.9 9.6 8.8 8.3 6.7  12.1 11.7 10.3 11.9	JUNE 2.9 2.7 2.7 3.2 3.2 3.2 4.6 3.7 3.2 3.1 3.9 3.8 3.4	5.7 6.4 6.8 6.0 5.9 6.1 5.0  7.4 7.2 7.1 7.6	14.5 14.8 14.6 12.3 12.7 11.1 12.0 12.6 12.0	6.2 5.7 5.8 6.2 6.4 6.2 7.2 6.4 6.8 7.0 9.4 7.5 8.5 9.7	10.4 10.6 10.7 9.8 9.8 9.5 9.2 9.8 9.7 10.6 11.3 12.2 13.2	17.0 14.2 18.2 13.8 15.1 15.3 13.5 16.5 14.6 15.1	10.3 10.7 10.7 11.1 11.0 9.7 9.5 8.9 9.3 11.0 8.0 8.2 9.4 8.8 7.8	12.6 14.0 12.5 12.8 12.3 11.4 12.5 12.3 12.6 11.1 11.8 12.6 11.7 12.1	14.6 17.5 13.9 15.0 13.4 13.9 16.0 16.6 12.9 13.3 14.5 16.3 12.6	10.5 10.0 9.7 9.7 9.3 9.6 8.9 9.2 10.2 8.5 8.9 9.0 8.9 8.9	12.5 13.0 11.7 12.3 11.7 11.8 12.4 12.8 11.7 11.2 11.7 11.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	9.8 11.6 11.9 9.6 8.8 8.3 6.7  12.1 11.7 10.3 11.9 	JUNE 2.9 2.7 2.7 3.2 3.2 3.2 4.6 3.7 3.2 3.1 3.9 3.8 3.4 3.5	5.7 6.4 6.8 6.0 5.9 6.1 5.0  7.4 7.2 7.1 7.6 	14.5 14.8 14.6 12.3 12.7 11.1 12.0 12.6 12.0 11.8 16.1 16.4 17.5 16.6	6.2 5.7 5.8 6.2 6.4 6.2 7.2 6.4 6.8 7.0 9.4 7.0 7.5 8.5 9.7	10.4 10.6 10.7 9.8 9.5 9.2 9.8 9.7 10.6 11.3 12.2 13.0	17.0 14.2 18.2 13.8 15.1 15.3 13.5 16.5 14.6 15.1 13.9 15.6 15.5 14.1 16.7	10.3 10.7 10.7 11.1 11.0 9.7 9.5 8.9 9.3 11.0 8.0 8.2 9.4 8.8 7.8	12.6 14.0 12.5 12.8 12.3 11.4 12.5 12.3 12.6 11.1 11.8 12.6 11.7 12.1	14.6 17.5 13.9 15.0 13.4 13.9 16.0 16.6 12.9 13.3 14.5 16.3 12.6 14.0 13.5	10.5 10.0 9.7 9.7 9.3 9.6 8.9 9.2 10.2 8.5 8.9 9.0 8.9 8.3 8.4	12.5 13.0 11.7 12.3 11.7 11.8 12.4 12.8 11.7 11.2 11.7 12.4 11.3 11.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	9.8 11.6 11.9 9.6 8.8 8.3 6.7  12.1 11.7 10.3 11.9  9.5 10.0 13.6	JUNE 2.9 2.7 2.7 3.2 3.2 3.2 4.66 3.7 3.2 3.1 3.9 3.8 3.4 3.5 3.9 4.8	5.7 6.4 6.8 6.0 5.9 6.1 5.0  7.4 7.2 7.1 7.6  6.4 7.0 8.8	14.5 14.8 14.6 12.3 12.7 11.1 12.0 12.6 12.0 11.8 16.4 17.5 16.6 13.3 15.0 12.6	6.2 5.7 5.8 6.2 6.4 6.2 7.0 9.4 7.5 8.5 9.3 8.5	10.4 10.6 10.7 9.8 9.8 9.5 9.2 9.8 9.7 10.6 11.3 12.2 13.0 11.6 11.9	17.0 14.2 18.2 13.8 15.1 15.3 13.5 16.5 14.6 15.1 13.9 15.6 15.5 14.1 16.7	10.3 10.7 10.7 11.1 11.0 9.7 9.5 8.9 9.3 11.0 8.0 8.2 9.4 8.8 7.8	12.6 14.0 12.5 12.8 12.3 11.4 12.5 12.3 12.6 11.1 11.8 12.6 11.7 12.1	14.6 17.5 13.9 15.0 13.4 13.9 16.0 16.6 12.9 13.3 14.5 16.3 12.6 14.0 13.5	10.5 10.0 9.7 9.7 9.3 9.6 8.9 9.2 10.2 8.5 8.9 9.0 8.9 8.3 8.4	12.5 13.0 11.7 12.3 11.7 11.8 12.4 12.8 11.7 11.2 11.7 11.2 11.3 11.3 11.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	9.8 11.6 11.9 9.6 8.8 8.3 6.7  12.1 11.7 10.3 11.9  9.5 10.0 13.6 13.6	JUNE 2.9 2.7 2.7 3.2 3.2 3.2 4.6 3.7 3.2 3.1 3.9 3.8 3.4 3.5 3.9 4.8 4.6	5.7 6.4 6.8 6.0 5.9 6.1 5.0  7.4 7.2 7.1 7.6  6.4 7.0 8.8 8.7	14.5 14.8 14.6 12.3 12.7 11.1 12.0 12.6 12.0 11.8 16.1 16.4 17.5 16.6	6.2 5.7 5.8 6.2 6.4 6.2 7.2 6.4 6.8 7.0 9.4 7.05 8.5 9.7 9.3 8.9 8.6	10.4 10.6 10.7 9.8 9.8 9.5 9.2 9.8 9.7 10.6 11.3 12.2 13.2 11.6 11.9 10.7	17.0 14.2 18.2 13.8 15.1 15.3 13.5 16.5 14.6 15.1 13.9 15.6 15.5 14.1 16.7	10.3 10.7 10.7 11.1 11.0 9.7 9.5 8.9 9.3 11.0 8.0 8.2 9.4 8.8 7.8	12.6 14.0 12.5 12.8 12.3 11.4 12.5 12.3 12.6 11.1 11.8 12.6 11.7 12.1 13.9 13.4 12.7 12.2	14.6 17.5 13.9 15.0 13.4 13.9 16.0 16.6 12.9 13.3 14.5 16.3 14.0 13.5	10.5 10.0 9.7 9.7 9.3 9.6 8.9 9.2 10.2 8.5 8.9 9.0 8.3 8.4	12.5 13.0 11.7 12.3 11.7 11.8 12.4 12.8 11.7 11.2 11.7 12.9 11.3 11.3 11.9 11.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	9.8 11.6 11.9 9.6 8.8 8.3 6.7  12.1 11.7 10.3 11.9  9.5 10.0 13.6 13.6 13.3	JUNE  2.9 2.7 2.7 3.2 3.2 3.2 4.66 3.7 3.2 3.1 3.9 3.8 3.4 3.5 3.9 4.8 4.6 4.4	5.7 6.4 6.0 5.9 6.1 5.0  7.4 7.2 7.1 7.6  6.4 7.0 8.8 8.7 8.6	14.5 14.8 14.6 12.3 12.7 11.1 12.0 12.6 12.0 11.8 16.1 16.4 17.5 16.6 13.3 15.0 12.6 12.5 15.0	6.2 5.7 5.8 6.2 6.4 6.2 7.0 9.4 7.5 8.5 9.7 9.3 8.5 9.5	10.4 10.6 10.7 9.8 9.8 9.5 9.2 9.8 9.7 10.6 11.3 12.2 13.0 11.6 11.9 10.7 10.6 12.2	17.0 14.2 18.2 13.8 15.1 15.3 13.5 16.5 14.6 15.1 13.9 15.6 15.5 14.1 16.7	10.3 10.7 10.7 11.1 11.0 9.7 9.5 8.9 9.3 11.0 8.0 8.2 9.4 8.8 7.8	12.6 14.0 12.5 12.8 12.3 11.4 12.5 12.3 12.6 11.1 11.8 12.6 11.7 12.1 13.9 13.4 12.7 12.2 13.0	14.6 17.5 13.9 15.0 13.4 13.9 16.0 16.6 12.9 13.3 14.5 16.3 12.6 14.0 13.5	10.5 10.0 9.7 9.7 9.3 9.6 8.9 9.2 10.2 8.5 8.9 9.0 8.9 8.3 8.4	12.5 13.0 11.7 12.3 11.7 11.8 12.4 12.8 11.7 11.2 11.7 12.4 10.9 11.3 11.3 11.3 11.3 12.4 10.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	9.8 11.6 11.9 9.6 8.8 8.3 6.7  12.1 11.7 10.3 11.9  9.5 10.0 13.6 13.6 13.3	JUNE 2.9 2.7 2.7 3.2 3.2 3.2 4.6 3.7 3.2 3.1 3.9 3.8 3.4 3.5 3.9 4.6 4.4 4.1	5.7 6.4 6.0 5.9 6.1 5.0  7.4 7.2 7.1 7.6  6.4 7.0 8.8 8.7 8.6	14.5 14.8 14.6 12.3 12.7 11.1 12.0 12.6 12.0 11.8 16.4 17.5 16.6 13.3 15.0 12.6 12.5 15.0	6.2 5.7 5.8 6.2 6.4 6.2 7.0 9.4 7.05 8.5 9.7 9.3 8.9 9.5	10.4 10.6 10.7 9.8 9.5 9.2 9.8 9.7 10.6 11.3 12.2 13.2 11.6 11.9 10.7 10.6 12.2	17.0 14.2 18.2 13.8 15.1 15.3 13.5 16.5 14.6 15.1 13.9 15.6 15.5 14.1 16.7 17.6 17.0 14.9 15.6 17.2	10.3 10.7 10.7 11.1 11.0 9.7 9.5 8.9 9.3 11.0 8.0 8.2 9.4 8.8 7.8	12.6 14.0 12.5 12.8 12.3 11.4 12.5 12.3 12.6 11.1 11.8 12.6 11.7 12.1 13.9 13.4 12.7 12.2 13.0 12.9	14.6 17.5 13.9 15.0 13.4 13.9 16.6 12.9 13.3 14.5 16.3 12.6 14.0 13.5	10.5 10.0 9.7 9.7 9.3 9.6 8.9 9.2 10.2 8.5 8.9 9.0 8.3 8.4 8.9 8.3 9.2 9.5 7.7	12.5 13.0 11.7 12.3 11.7 11.8 12.4 12.8 11.7 11.2 11.7 12.9 11.3 11.3 11.9 11.2 12.3 12.4 10.9 8.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	9.8 11.6 11.9 9.6 8.8 8.3 6.7  12.1 11.7 10.3 11.9  9.5 10.0 13.6 13.6 13.3 13.5 14.2 14.3	JUNE  2.9 2.7 2.7 3.2 3.2 3.2 4.6 3.7 3.2 3.1 3.9 3.8 3.4 3.5 3.9 4.8 4.6 4.1 4.1 4.1 5.2	5.7 6.4 6.0 5.9 6.1 5.0  7.4 7.2 7.1 7.6  6.4 7.0 8.8 8.7 8.6	14.5 14.8 14.6 12.3 12.7 11.1 12.0 12.6 12.0 11.8 16.4 17.5 16.6 13.3 15.0 12.6 12.5 15.0	6.2 5.7 5.8 6.2 6.4 6.2 6.4 6.8 7.0 9.4 7.5 8.5 9.7 9.3 8.5 9.5 8.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9	10.4 10.6 10.7 9.8 9.5 9.2 9.8 9.7 10.6 11.3 12.2 13.2 13.0 11.6 11.9 10.7 10.6 12.2	17.0 14.2 18.2 13.8 15.1 15.3 13.5 16.5 14.6 15.1 13.9 15.6 15.5 14.1 16.7 17.6 17.0 14.9 15.6 17.2	10.3 10.7 10.7 11.1 11.0 9.7 9.5 8.9 9.3 11.0 8.0 8.2 9.4 8.8 7.8 10.2 9.7 11.3 8.5 9.7	12.6 14.0 12.5 12.8 12.3 11.4 12.5 12.3 12.6 11.1 11.8 12.6 11.7 12.1 13.9 13.4 12.7 12.2 13.0 12.9 12.3 12.3	14.6 17.5 13.9 15.0 13.4 13.9 16.0 16.6 12.9 13.3 14.5 16.3 12.6 14.0 13.5 15.0 13.6 16.4 15.4 12.6	10.5 10.0 9.7 9.7 9.3 9.6 8.9 9.2 10.2 8.5 8.9 9.0 8.9 8.3 8.4 8.9 9.5 7.7 6.3 5.7	12.5 13.0 11.7 12.3 11.7 11.8 12.4 12.8 11.7 11.2 11.7 12.4 10.9 11.3 11.3 11.3 12.4 10.9 11.3 7.7 12.5 12.7 12.7 12.7 12.7 13.7 13.7 14.7 15.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	9.8 11.6 11.9 9.6 8.8 8.3 6.7  12.1 11.7 10.3 11.9  9.5 10.0 13.6 13.3 13.5 14.2	JUNE 2.9 2.7 2.7 3.2 3.2 3.2 4.6 3.7 3.2 3.1 3.9 3.8 3.4 3.5 3.9 4.6 4.4 4.1 4.9 5.2 4.9	5.7 6.4 6.0 5.9 6.1 7.4 7.1 7.6 6.4 7.9 8.7 8.7 9.3 9.1	14.5 14.8 14.6 12.3 12.7 11.1 12.0 12.6 12.0 11.8 16.4 17.5 16.6 13.3 15.0 12.6 12.5 15.0	6.2 5.7 5.8 6.2 6.4 6.2 7.2 6.4 6.8 7.0 9.4 7.05 8.5 9.7 9.3 8.9 9.1	10.4 10.6 10.7 9.8 9.8 9.5 9.2 9.8 9.7 10.6 11.3 12.2 13.0 11.6 11.9 10.7 10.6 12.2	17.0 14.2 18.2 13.8 15.1 15.3 13.5 16.5 14.6 15.1 13.9 15.6 15.5 14.1 16.7 17.0 14.9 15.6 17.2	10.3 10.7 10.7 11.1 11.0 9.7 9.5 8.9 9.3 11.0 8.0 8.2 9.4 8.8 7.8 10.2 9.7 11.3 8.5 9.7	12.6 14.0 12.5 12.8 12.3 11.4 12.5 12.3 12.6 11.1 13.9 13.4 12.7 12.2 13.0 12.9 12.3 12.3 12.2	14.6 17.5 13.9 15.0 13.4 13.9 16.6 12.9 13.3 14.5 16.3 12.6 14.0 13.5 15.0 13.6 16.4 15.4 12.6	10.5 10.0 9.7 9.7 9.3 9.6 8.9 9.2 10.2 8.5 8.9 9.0 8.3 8.4 8.9 9.2 9.5 7.7 6.3 5.7	12.5 13.0 11.7 12.3 11.7 11.8 12.4 12.8 11.7 11.2 11.7 11.3 11.3 11.3 11.9 11.3 12.4 10.9 8.7 8.3 7.9 8.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	9.8 11.6 11.9 9.6 8.8 8.3 6.7  12.1 11.7 10.3 11.9  9.5 10.0 13.6 13.6 13.3 13.5 14.2 14.3 13.6	JUNE  2.9 2.7 2.7 3.2 3.2 3.2 4.6 3.7 3.2 3.1 3.9 3.8 3.4 3.5 3.9 4.8 4.6 4.1 4.1 4.9 5.2 4.9 4.8	5.7 6.4 6.0 5.9 6.1 5.0 7.4 7.2 7.1 7.6 6.4 7.0 8.8 8.7 8.6 8.7 9.6 9.1	14.5 14.8 14.6 12.3 12.7 11.1 12.0 12.6 12.0 11.8 16.1 16.4 17.5 16.6 12.5 15.0 12.6 12.5 15.0 14.6 13.3 15.0 14.6 13.5 13.8 18.0 16.5	6.2 5.7 5.8 6.2 6.4 6.4 6.8 7.0 9.4 7.5 8.5 9.7 9.3 8.9 8.5 9.5	10.4 10.6 10.7 9.8 9.5 9.2 9.8 9.7 10.6 11.3 12.2 13.2 13.0 11.6 11.9 10.7 10.6 12.2 12.5 11.0 11.4 13.5	17.0 14.2 18.2 13.8 15.1 15.3 13.5 16.5 14.6 15.1 13.9 15.6 15.5 14.1 16.7 17.6 17.0 14.9 15.6 17.2	10.3 10.7 10.7 11.1 11.0 9.7 9.5 8.9 9.3 11.0 8.0 8.2 9.4 8.8 7.8 10.2 9.7 11.3 8.5 9.7	12.6 14.0 12.5 12.8 12.3 11.4 12.5 12.3 12.6 11.1 11.8 12.6 11.7 12.1 13.9 13.4 12.7 12.2 13.0 12.9 12.3 12.3 12.2 12.2	14.6 17.5 13.9 15.0 13.4 13.9 16.0 16.6 12.9 13.3 14.5 16.3 12.6 14.0 13.5 15.0 13.6 16.4 15.4 12.6	10.5 10.0 9.7 9.7 9.3 9.6 8.9 9.2 10.2 8.5 8.9 9.0 8.9 8.3 8.4 8.9 9.5 7.7 6.3 5.7 5.1 6.1	12.5 13.0 11.7 12.3 11.7 11.8 12.4 12.8 11.7 11.2 11.3 11.3 11.3 11.3 11.3 12.4 10.9 11.2 12.3 12.4 10.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27	9.8 11.6 11.9 9.6 8.8 8.3 6.7  12.1 11.7 10.3 11.9  9.5 10.0 13.6 13.6 13.3 14.2 14.2 14.3 13.6	JUNE  2.9 2.7 3.2 3.2 3.2 4.6 3.7 3.2 3.1 3.9 3.8 3.4 3.5 3.9 4.8 4.6 4.1 4.1 4.9 5.2 4.9 4.8 5.3	5.7 6.4 6.0 5.9 6.1 7.1 7.1 7.1 7.1 6.4 7.2 7.1 8.8 8.7 9.6 9.1 9.1 8.1 8.1	14.5 14.8 14.6 12.3 12.7 11.1 12.0 12.6 12.0 11.8 16.1 16.4 17.5 16.6 12.5 15.0 12.6 12.5 15.0 14.6 13.3 15.0 16.1 16.4 16.1 16.4 16.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5	6.2 5.7 5.8 6.2 6.4 6.2 7.2 6.4 6.8 7.0 7.5 8.5 9.7 9.3 8.9 8.9 9.1 10.3 10.5 9.7	10.4 10.6 10.7 9.8 9.8 9.5 9.2 9.8 9.7 10.6 11.3 12.2 13.0 11.6 11.9 10.7 10.6 12.2 12.5 11.0 11.4 13.5 13.5	17.0 14.2 18.2 13.8 15.1 15.3 13.5 16.5 14.6 15.1 13.9 15.6 15.5 14.1 16.7 17.0 14.9 15.6 17.2	10.3 10.7 10.7 11.1 11.0 9.7 9.5 8.9 9.3 11.0 8.0 8.2 9.4 8.8 7.8 10.2 9.7 11.3 8.5 9.7	12.6 14.0 12.5 12.8 12.3 11.4 12.5 12.3 12.6 11.1 13.9 13.4 12.7 12.2 13.0 12.9 12.3 12.3 12.2	14.6 17.5 13.9 15.0 13.4 13.9 16.6 12.9 13.3 14.5 16.3 12.6 14.0 13.5 15.0 13.6 16.4 15.4 12.6	10.5 10.0 9.7 9.7 9.3 9.6 8.9 9.2 10.2 8.5 8.9 9.0 8.3 8.4 8.9 9.2 9.5 7.7 6.3 5.7	12.5 13.0 11.7 12.3 11.7 11.8 12.4 12.8 11.7 11.2 11.7 11.3 11.3 11.3 11.9 11.3 12.4 10.9 8.7 8.3 7.9 8.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	9.8 11.6 11.9 9.6 8.8 8.3 6.7  12.1 11.7 10.3 11.9  9.5 10.0 13.6 13.3 13.5 14.2 14.3 13.6	JUNE 2.9 2.7 3.2 3.2 3.2 4.6 3.7 3.2 3.1 3.9 3.8 3.4 3.5 4.6 4.1 4.1 4.9 4.8 5.4 5.7	5.7 6.4 6.0 5.9 6.1 5.0 7.1 7.2 7.1 7.6 6.4 7.0 8.8 8.7 9.1 9.1 8.1 8.2 9.8	14.5 14.8 14.6 12.3 12.7 11.1 12.0 12.6 12.0 11.8 16.1 16.4 17.5 16.6 12.5 15.0 12.6 12.5 15.0 14.6 13.3 15.0 16.1 16.4 16.1 16.4 16.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5	6.2 5.7 5.8 6.2 6.4 6.2 7.0 9.4 7.5 8.5 9.7 9.3 8.9 8.5 9.5 10.7 8.9 9.1 10.3 10.5 9.7	10.4 10.6 10.7 9.8 9.8 9.5 9.2 9.8 9.7 10.6 11.3 12.2 13.2 13.0 11.6 11.9 10.7 10.6 11.3 12.2	17.0 14.2 18.2 13.8 15.1 15.3 13.5 16.5 14.6 15.1 13.9 15.6 15.5 14.1 16.7 17.6 17.0 14.9 15.6 17.2 15.8 14.9 16.1 16.2 17.2	10.3 10.7 10.7 11.1 11.0 9.7 9.5 8.9 9.3 11.0 8.0 8.2 9.4 8.8 7.8 10.2 9.7 11.3 8.5 9.7	12.6 14.0 12.5 12.8 12.3 11.4 12.5 12.3 12.6 11.1 13.9 13.4 12.7 12.2 13.0 12.2 13.0 12.3 12.2 13.0	14.6 17.5 13.9 15.0 13.4 13.9 16.0 16.6 12.9 13.3 14.5 16.3 12.6 14.0 13.5 15.0 13.6 16.4 15.4 12.6 10.4 11.3 12.1	10.5 10.0 9.7 9.7 9.3 9.6 8.9 9.2 10.2 8.5 8.9 9.0 8.9 8.3 9.2 9.0 9.5 7.7 6.1 8.0 7.6 6.8	12.5 13.0 11.7 12.3 11.7 11.8 12.4 12.8 11.7 11.2 11.7 11.2 11.3 11.3 11.3 11.3 12.4 10.9 11.2 12.3 12.4 10.9 11.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	9.8 11.6 11.9 9.6 8.8 8.3 6.7  12.1 11.7 10.3 11.9  9.5 10.0 13.6 13.3 13.5 14.2 14.3 13.6	JUNE  2.9 2.7 3.2 3.2 3.2 4.6 3.7 3.2 3.1 3.9 3.8 3.4 3.5 3.9 4.8 4.6 4.1 4.1 4.9 5.2 4.9 4.8 5.3	5.7 6.4 6.0 5.9 6.1 7.4 7.1 7.6  6.4 7.8 8.7 8.6 8.7 9.1  8.1	14.5 14.8 14.6 12.3  12.7 11.1 12.0 12.6 12.0  11.8 16.1 16.4 17.5 16.6  13.3 15.0 12.6 12.5 15.0  14.6 13.3 18.0 16.5	6.2 5.7 5.8 6.2 6.4 6.2 7.0 9.4 7.5 8.5 9.7 9.3 8.9 8.5 9.5 10.7 8.9 9.1 10.3 10.5 9.7	10.4 10.6 10.7 9.8 9.8 9.5 9.2 9.8 9.7 10.6 11.3 12.2 13.0 11.6 11.9 10.7 10.6 12.2 12.5 11.0 11.4 13.5 13.5	17.0 14.2 18.2 13.8 15.1 15.3 13.5 16.5 14.6 15.1 13.9 15.6 15.5 14.1 16.7 17.0 14.9 15.6 17.2 15.8 14.9 16.1 16.2 13.7	10.3 10.7 10.7 11.1 11.0 9.7 9.5 8.9 9.3 11.0 8.0 8.2 9.4 8.8 7.8 10.2 9.7 11.3 8.5 9.7	12.6 14.0 12.5 12.8 12.3 11.4 12.5 12.6 11.1 11.8 12.6 11.7 12.1 13.9 13.4 12.7 12.2 13.0 12.9 12.3 12.3 12.3 12.3	14.6 17.5 13.9 15.0 13.4 13.9 16.0 16.6 12.9 13.3 14.5 16.3 12.6 14.0 13.5 15.0 13.6 16.4 11.0 10.4 11.0 11.3 12.1	10.5 10.0 9.7 9.7 9.3 9.6 8.9 9.2 10.2 8.5 8.9 9.0 9.5 7.7 6.3 5.7 6.1 8.0 7.6 6.8 7.5	12.5 13.0 11.7 12.3 11.7 11.8 12.4 12.8 11.7 11.2 11.7 12.4 10.9 11.3 11.3 11.3 12.4 10.9 11.3 11.3 11.9 11.9 11.9 11.0 10.0 10.0 10.0 10.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	9.8 11.6 11.9 9.6 8.8 8.3 6.7  12.1 11.7 10.3 11.9  9.5 10.0 13.6 13.6 13.5 14.3 13.5 14.3 13.6	JUNE 2.9 2.7 3.2 3.2 3.2 4.6 3.7 3.2 3.1 3.8 3.4 3.5 3.9 4.6 4.4 4.1 4.9 5.2 4.9 4.8 5.3 5.7 5.8	5.7 6.4 6.0 5.9 6.1 7.4 7.1 7.6  6.4 7.2 7.1 7.6 8.7 8.7 8.6 9.1  8.8 9.1 8.6 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	14.5 14.8 14.6 12.3  12.7 11.1 12.0 12.6 12.0  11.8 16.1 16.4 17.5 16.6  13.3 15.0 12.6 12.5 15.0  14.6 13.5 13.8 18.0 16.5	6.2 5.7 5.8 6.2 6.4 6.8 7.0 9.4 7.5 8.5 9.7 9.3 8.9 9.1 10.3 10.5 9.7 10.9	10.4 10.6 10.7 9.8 9.8 9.5 9.2 9.8 9.7 10.6 11.3 12.2 13.0 11.6 11.9 10.7 10.6 12.2 12.5 11.0 11.4 13.5 13.5	17.0 14.2 18.2 13.8 15.1 15.3 13.5 16.5 14.6 15.1 13.9 15.6 15.5 14.1 16.7 17.6 17.0 14.9 15.6 17.2 15.8 14.9 16.1 16.2 13.7	10.3 10.7 10.7 11.1 11.0 9.7 9.5 8.9 9.3 11.0 8.0 8.2 9.4 8.8 7.8 10.2 9.7 11.3 8.5 9.7	12.6 14.0 12.5 12.8 12.3 11.4 12.5 12.3 12.6 11.1 13.9 13.4 12.7 12.2 13.0 12.9 12.3 12.2 13.9 14.1 14.0 13.7	14.6 17.5 13.9 15.0 13.4 13.9 16.6 12.9 13.3 14.5 16.3 12.6 14.0 13.5 15.0 13.6 14.5 15.4 12.6 10.4 11.0 11.3 12.1	10.5 10.0 9.7 9.7 9.3 9.6 8.9 9.2 10.2 8.5 8.9 9.0 8.3 8.4 8.9 9.2 9.5 7.7 6.3 5.7 5.1 6.1	12.5 13.0 11.7 12.3 11.7 11.8 12.4 12.8 11.7 11.2 11.7 11.3 11.3 11.3 11.3 12.4 10.9 8.7 8.3 7.9 8.3 9.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	9.8 11.6 11.9 9.6 8.8 8.3 6.7  12.1 11.7 10.3 11.9 9.5 10.0 13.6 13.3 13.5 14.2 14.3 13.6 14.1 11.9 14.1 15.2 15.6	JUNE 2.9 2.7 3.2 3.2 3.2 4.6 3.7 3.2 3.1 3.9 3.8 3.4 4.6 4.1 4.9 5.2 4.8 5.4 5.7 5.8 6.0	5.7 6.4 6.0 5.9 6.1 7.4 7.2 7.1 6.4 7.0 8.8 8.7 9.6 9.6 9.8 9.8 10.9	14.5 14.8 14.6 12.3  12.7 11.1 12.0 12.6 12.5 16.6 13.3 15.0 12.6 12.5 15.0  14.6 13.5 13.8 18.0 16.5  16.3 14.4 13.5 14.4 13.5 15.4	6.2 5.7 5.8 6.2 6.4 6.2 7.0 9.4 7.05 8.5 9.7 9.3 8.9 8.6 9.5 10.7 8.9 8.9 10.3 10.5 10.9 10.9 10.8	10.4 10.6 10.7 9.8 9.5 9.2 9.8 9.7 10.6 11.3 12.2 13.0 11.6 11.9 10.7 10.6 12.2 12.5 11.0 11.4 13.5 13.5	17.0 14.2 18.2 13.8 15.1 15.3 13.5 16.5 14.6 15.1 13.9 15.6 17.0 14.1 16.7 17.6 17.0 14.9 15.6 17.2 15.8 14.9 16.1 16.2 13.7	10.3 10.7 10.7 11.1 11.0 9.7 9.5 8.9 9.3 11.0 8.0 8.2 9.4 8.8 7.8 10.2 9.7 11.3 9.7 10.1 10.3 9.0 8.8 10.0	12.6 14.0 12.5 12.8 12.3 11.4 12.5 12.6 11.1 11.8 12.6 11.7 12.1 13.9 13.4 12.7 12.2 13.0 12.9 12.3 12.3 12.3 12.3 12.3 12.3 12.9 14.1 14.0 13.7 12.9	14.6 17.5 13.9 15.0 13.4 13.9 16.0 16.6 12.9 13.3 14.5 16.3 12.6 14.0 13.5 15.0 13.6 16.4 11.0 10.4 11.0 11.3 12.1	10.5 10.0 9.7 9.7 9.3 9.6 8.9 9.2 10.2 8.5 8.9 9.0 9.5 7.7 6.3 5.7 6.1 8.0 7.6 6.8 7.5	12.5 13.0 11.7 12.3 11.7 11.8 12.4 12.8 11.7 11.2 11.7 12.4 10.9 11.3 11.3 11.3 12.4 10.9 11.3 11.3 11.9 11.9 11.9 11.0 10.0 10.0 10.0 10.0

# 08236500 ALAMOSA RIVER BELOW TERRACE RESERVOIR, CO WATER-QUALITY RECORDS

LOCATION.--Lat 37°21'15", long 106°16'45", in NE¹/4SE¹/4 sec.23, T.36 N., R.6 E., Conejos County, Hydrologic Unit 13010002, on the left bank 0.5 mi downstream from Terrace Reservoir, and 12 mi northwest of Capulin.

PERIOD OF RECORD.--June 1995 to current year (seasonal only).

## PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: June 1995 to current year (seasonal only).

WATER TEMPERATURE: June 1995 to current year (seasonal only).

pH: June 1995 to current year (seasonal only).

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Records for specific conductance are good. Records for pH are fair. Records for water temperature are good. Daily data that are not published during period of seasonal operation (Oct. 1-2 and Mar. 18 to Sept. 30) are either missing or of unacceptable quality.

#### EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 442 microsiemens, Apr. 3-6, 1996; minimum, 111 microsiemens June 17, 1997.

pH: Maximum, 8.8 units, Mar. 22, 1997; minimum, 4.3 units, Sept. 17-18, 1996.

WATER TEMPERATURE: Maximum, 16.7°C, Aug. 10, 1996; minimum, 2.4°C, Apr. 4, 1996.

## EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 383 microsiemens, Apr. 7; minimum, 111 microsiemens June 17.

pH: Maximum, 8.8 units, Mar. 22; minimum, 5.2 units, Aug. 12-13.

WATER TEMPERATURE: Maximum, 15.1°C, Sept. 2-3; minimum, 2.6°C, Apr. 12-13.

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	VEMBER		DE	CEMBER		Ċ	JANUARY	Z.
1	382	372	378									
2	381	374	378									
3												
4												
5												
J												
6												
7												
8												
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27												
28												
29												
30												
31												
31												
MONTH												

# 08236500 ALAMOSA RIVER BELOW TERRACE RESERVOIR, CO--Continued

		311	zen ie eoru	Jeenmee,	(		@ 25 DEG. C	),		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	1	FEBRUARY			MARCH			APRIL			MAY	
1							356	346	351	306	304	305
2							358 360	354 354	357 357	305 304	302 302	303 303
4							359	355	357	304	298	303
5							359	355	357	299	295	297
6							361	355	358	295	291	294
7 8							383 382	355 378	372	293 286	285 261	289 275
9							381	379	380 380	266	244	255
10							382	377	379	265	234	256
11							378	374	377	266	232	249
12							375	367	371	245	231	239
13 14							371 363	362 347	367 357	244 231	230 214	236 225
15							348	338	341	219	179	202
16							340	337	338	199	181	191
17 18				246	210		339	337	337	206	195	200
18 19				346 348	318 314	334 333	338 338	336 336	337 337	201 177	170 148	195 169
20				349	320	334	337	336	336	160	149	154
21				345	320	334	336	332	335	165	155	160
22				340	320	332	333	331	332	160	147	156
23 24				342 345	327 326	336 336	331 330	330 327	331 328	155 151	147 141	152 147
25				347	341	344	328	326	327	152	140	145
26				349	345	347	327	318	325	151	147	149
27 28				350 349	347 345	348 348	325 324	320 311	324 318	167 168	150 164	157 166
29				349	346	348	313	305	308	168	162	165
30				350	346	348	307	306	306	163	154	161
31				350	346	348				158	152	155
MONTH							383	305	346	306	140	215
		JUNE			JULY			AUGUST		2	SEPTEMBE	R
1	156		140	126		124	P					
1 2	156 144	JUNE 137 117	148 130	126 126	JULY 124 124	124 125		AUGUST 188 189	191 192	214 218	SEPTEMBE 212 213	R 213 216
2	144 131	137 117 116	130 122	126 127	124 124 125	125 126	193 194 193	188 189 191	191 192 192	214 218 230	212 213 217	213 216 222
2 3 4	144 131 126	137 117 116 119	130 122 123	126 127 127	124 124 125 126	125 126 126	193 194 193 194	188 189 191 191	191 192 192 192	214 218 230 231	212 213 217 221	213 216 222 227
2 3 4 5	144 131 126 128	137 117 116 119 117	130 122 123 123	126 127 127 128	124 124 125 126 127	125 126 126 127	193 194 193 194 195	188 189 191 191 193	191 192 192 192 194	214 218 230 231 230	212 213 217 221 227	213 216 222 227 228
2 3 4 5	144 131 126 128	137 117 116 119 117	130 122 123 123	126 127 127 128	124 124 125 126 127	125 126 126 127	193 194 193 194 195	188 189 191 191 193	191 192 192 192 194	214 218 230 231 230	212 213 217 221 227	213 216 222 227 228
2 3 4 5 6 7 8	144 131 126 128 124 124 124	137 117 116 119 117	130 122 123 123 123 121 121 121 120	126 127 127 128	124 124 125 126 127	125 126 126 127 128 130 132	193 194 193 194 195 199 208 220	188 189 191 191 193 183 196 203	191 192 192 192 194	214 218 230 231 230	212 213 217 221 227 227 226 226	213 216 222 227 228 228 226 227
2 3 4 5 6 7 8 9	144 131 126 128 124 124 124 124	137 117 116 119 117 119 119 118 119	130 122 123 123 121 121 120 121	126 127 127 128 129 131 134 141	124 124 125 126 127 128 129 131 133	125 126 126 127 128 130 132 137	193 194 193 194 195 199 208 220 225	188 189 191 191 193 183 196 203 211	191 192 192 192 194 196 203 209 215	214 218 230 231 230 230 228 228 230	212 213 217 221 227 227 226 226 227	213 216 222 227 228 228 226 227 229
2 3 4 5 6 7 8 9	144 131 126 128 124 124 124 124 129	137 117 116 119 117 119 119 118 119 124	130 122 123 123 121 121 120 121 126	126 127 127 128 129 131 134 141 143	124 124 125 126 127 128 129 131 133 140	125 126 126 127 128 130 132 137 141	193 194 193 194 195 199 208 220 225 226	188 189 191 191 193 183 196 203 211 219	191 192 192 192 194 196 203 209 215 223	214 218 230 231 230 230 228 228 228 230 241	212 213 217 221 227 227 226 226 226 227 228	213 216 222 227 228 228 226 227 229 234
2 3 4 5 6 7 8 9 10	144 131 126 128 124 124 124 124 129	137 117 116 119 117 119 119 118 119 124	130 122 123 123 121 121 120 121 126	126 127 127 128 129 131 134 141 143	124 124 125 126 127 128 129 131 133 140	125 126 126 127 128 130 132 137 141	193 194 193 194 195 199 208 220 225 226	188 189 191 191 193 183 196 203 211 219	191 192 192 192 194 196 203 209 215 223	214 218 230 231 230 230 230 228 228 230 241	212 213 217 221 227 227 226 226 227 228	213 216 222 227 228 228 226 227 229 234
2 3 4 5 6 7 8 9	144 131 126 128 124 124 124 124 129	137 117 116 119 117 119 119 118 119 124	130 122 123 123 121 121 120 121 126	126 127 127 128 129 131 134 141 143	124 124 125 126 127 128 129 131 133 140	125 126 126 127 128 130 132 137 141	193 194 193 194 195 199 208 220 225 226	188 189 191 191 193 183 196 203 211 219	191 192 192 192 194 196 203 209 215 223	214 218 230 231 230 230 228 228 228 230 241	212 213 217 221 227 227 226 226 226 227 228	213 216 222 227 228 228 226 227 229 234
2 3 4 5 6 7 8 9 10 11 12 13 14	144 131 126 128 124 124 124 129 131 127 126 123	137 117 116 119 117 119 119 118 119 124 126 126 121	130 122 123 123 121 121 120 121 126 128 126 123 119	126 127 127 128 129 131 134 141 143	124 124 125 126 127 128 129 131 133 140	125 126 126 127 128 130 132 137 141 144 147 153 154	193 194 193 194 195 199 208 220 225 226 221 224 225 216	188 189 191 191 193 183 196 203 211 219 204 203 215 213	191 192 192 192 194 196 203 209 215 223 212 207 220 214	214 218 230 231 230 230 230 228 228 230 241 238 241 244 247	212 213 217 221 227 227 226 226 227 228 236 238 238 244	213 216 222 227 228 228 228 226 227 229 234 237 238 241 245
2 3 4 5 6 7 8 9 10 11 12 13	144 131 126 128 124 124 124 129 131 127 126	137 117 116 119 117 119 119 118 119 124	130 122 123 123 121 121 120 121 126 128 126 123	126 127 127 128 129 131 134 141 143 147 149	124 124 125 126 127 128 129 131 133 140 140 145 147	125 126 126 127 128 130 132 137 141 144 147	193 194 193 194 195 199 208 220 225 226 221 224 225	188 189 191 191 193 183 196 203 211 219	191 192 192 192 194 196 203 209 215 223 212 207 220	214 218 230 231 230 230 228 228 230 241 238 241	212 213 217 221 227 227 226 226 227 228 236 238 238	213 216 222 227 228 228 226 227 229 234 237 238 241
2 3 4 5 6 7 8 9 10 11 12 13 14 15	144 131 126 128 124 124 124 124 129 131 127 126 123 120	137 117 116 119 117 119 118 119 124 126 126 121 116	130 122 123 123 121 121 120 121 126 128 126 123 119 118	126 127 127 128 129 131 134 141 143 147 149 159 156 156	124 125 126 127 128 129 131 133 140 140 145 153 153	125 126 126 127 128 130 132 137 141 144 147 153 154 154	193 194 193 194 195 199 208 220 225 226 221 224 225 216 214	188 189 191 191 193 183 196 203 211 219 204 203 215 213 207	191 192 192 192 194 196 203 209 215 223 212 207 220 214 210	214 218 230 231 230 230 230 228 228 230 241 238 241 247 247	212 213 217 221 227 226 226 227 228 236 238 244 245	213 216 222 227 228 228 228 226 227 229 234 237 241 245 245
2 3 4 5 6 7 8 9 10 11 12 13 14 15	144 131 126 128 124 124 124 129 131 127 126 123 120	137 117 116 119 117 119 119 118 119 124 126 121 116 115	130 122 123 123 121 121 120 121 126 128 126 123 119 118	126 127 127 128 129 131 134 141 143 147 149 159 156 156	124 125 126 127 128 129 131 133 140 145 145 153 153	125 126 126 127 128 130 132 137 141 144 147 153 154 155	193 194 193 194 195 199 208 220 225 226 221 224 225 216 214	188 189 191 191 193 183 196 203 211 219 204 203 215 213 207	191 192 192 192 194 196 203 209 215 223 212 207 220 214 210	214 218 230 231 230 230 228 228 230 241 238 241 247 247 250 250	212 213 217 221 227 227 226 226 227 228 236 238 238 244 245	213 216 222 227 228 228 228 226 227 229 234 237 238 241 245 245
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	144 131 126 128 124 124 124 124 129 131 127 126 123 120	137 117 116 119 117 119 118 119 124 126 121 116 115	130 122 123 123 121 121 120 121 126 128 126 123 119 118	126 127 127 128 129 131 134 141 143 147 149 159 156 156	124 124 125 126 127 128 129 131 133 140 145 147 153 153	125 126 126 127 128 130 132 137 141 144 147 153 154 155 155 157	193 194 193 194 195 199 208 220 225 226 221 224 225 216 214	188 189 191 193 183 196 203 211 219 204 203 215 213 207	191 192 192 192 194 196 203 209 215 223 212 207 220 214 210	214 218 230 231 230 230 228 228 230 241 238 241 244 247 247 250 250 246	212 213 217 2217 227 226 226 227 228 236 238 244 245	213 216 222 227 228 228 226 227 229 234 237 238 241 245 245
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	144 131 126 128 124 124 124 129 131 127 126 123 120 118 117 123 124 123	137 117 116 119 117 119 118 119 124 126 126 121 116 115 116 111 113 120 122	130 122 123 123 121 120 121 126 128 126 123 119 118 117 113 120 122 122	126 127 127 128 129 131 134 141 143 147 149 159 156 156 156 158 159 160 171	124 124 125 126 127 128 129 131 133 140 140 145 147 153 153 154 157 159 160	125 126 126 127 128 130 132 137 141 144 147 153 154 155 157 158 160 167	193 194 193 194 195 199 208 220 225 226 221 224 225 216 214 208 207 220 220 220	188 189 191 191 193 183 196 203 211 219 204 203 215 213 207 204 205 202 204 212	191 192 192 192 194 196 203 209 215 223 212 207 220 214 210 205 206 206 207 217	214 218 230 231 230 230 228 228 230 241 238 241 247 247 247 247 250 250 246 247 248	212 213 217 221 227 226 226 227 228 236 238 244 245 247 243 244 199	213 216 222 227 228 228 228 226 227 229 234 237 241 245 245 245 248 249 243 246 245
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	144 131 126 128 124 124 124 129 131 127 126 123 120 118 117 123 120	137 117 116 119 117 119 118 119 124 126 126 121 116 115 116 111 113 120 122	130 122 123 123 121 121 120 121 126 128 126 123 119 118 117 113 120 122 122	126 127 127 128 129 131 134 141 143 147 149 159 156 156 158 159 160 171	124 125 126 127 128 129 131 133 140 140 145 147 153 153 154 156 157 159 160	125 126 126 127 128 130 132 137 141 144 147 153 154 155 157 158 160 167	193 194 193 194 195 199 208 220 225 226 221 224 225 216 214 208 208 207 220 220 225 216 214	188 189 191 191 193 183 196 203 211 219 204 203 215 213 207 204 205 204 205 204 205	191 192 192 192 194 196 203 209 215 223 212 207 220 214 210 205 206 206 207 217	214 218 230 231 230 230 228 228 230 241 238 241 247 247 250 250 246 247 248	212 213 217 221 227 227 226 226 227 228 236 238 238 244 245 247 243 244 199	213 216 222 227 228 228 228 226 227 229 234 237 241 245 245 245 248 249 243 246 245
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	144 131 126 128 124 124 124 129 131 127 126 123 120 118 117 123 124 123	137 117 116 119 117 119 118 119 124 126 126 121 116 115 116 111 113 120 122	130 122 123 123 121 120 121 126 128 126 123 119 118 117 113 120 122 122	126 127 127 128 129 131 134 141 143 147 149 159 156 156 156 158 159 160 171	124 124 125 126 127 128 129 131 133 140 140 145 147 153 153 154 157 159 160	125 126 126 127 128 130 132 137 141 144 147 153 154 155 157 158 160 167	193 194 193 194 195 199 208 220 225 226 221 224 225 216 214 208 207 220 220 220	188 189 191 191 193 183 196 203 211 219 204 203 215 213 207 204 205 202 204 212	191 192 192 192 194 196 203 209 215 223 212 207 220 214 210 205 206 206 207 217	214 218 230 231 230 230 228 228 230 241 238 241 247 247 247 247 250 250 246 247 248	212 213 217 221 227 226 226 227 228 236 238 244 245 247 243 244 199	213 216 222 227 228 228 228 226 227 229 234 237 241 245 245 245 248 249 243 246 245
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	144 131 126 128 124 124 124 129 131 127 126 123 120 118 117 123 124 123 124 123	137 117 116 119 117 119 118 119 124 126 121 116 115 116 111 113 120 122	130 122 123 123 121 120 121 126 128 126 123 119 118 117 113 120 122 122 122	126 127 128 129 131 134 141 143 147 149 159 156 156 158 159 160 171	124 124 125 126 127 128 129 131 133 140 145 147 153 153 154 156 157 159 160	125 126 126 127 128 130 132 137 141 144 147 153 154 155 157 158 160 167	193 194 193 194 195 199 208 220 225 226 221 224 225 216 214 208 208 207 220 220	188 189 191 191 193 183 196 203 211 219 204 203 215 213 207 204 205 202 204 212 208 205 205 206	191 192 192 192 194 196 203 209 215 223 212 207 220 214 210 205 206 207 217 210 208 209	214 218 230 231 230 230 228 228 230 241 238 241 244 247 247 250 250 246 247 248	212 213 217 2217 227 226 226 227 228 236 238 244 245 245 247 243 242 244 199 235 214 210	213 216 222 227 228 228 226 227 229 234 237 245 241 245 245 248 249 243 246 245 245
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	144 131 126 128 124 124 124 124 129 131 127 126 123 120 118 117 123 124 123 122 120 118 119 120 120	137 117 116 119 117 119 118 119 124 126 121 116 115 116 111 113 120 122 117 116 117 118 119	130 122 123 123 121 120 121 126 128 126 123 119 118 117 113 120 122 122 122 120 118 118 119 120	126 127 127 128 129 131 134 141 143 147 149 159 156 156 156 157 171 171 171 175 179 182 183	124 124 125 126 127 128 129 131 133 140 140 145 147 153 153 154 156 157 159 160	125 126 126 127 128 130 132 137 141 144 147 153 154 155 157 158 160 167 169 172 174 178 180	193 194 193 194 195 199 208 220 225 226 221 224 225 216 214 208 207 220 220 220 221 220 221 221 221 221 221	188 189 191 191 193 183 196 203 211 219 204 203 215 213 207 204 205 202 204 212 208 205 206 209 214	191 192 192 192 194 196 203 209 215 223 212 207 220 214 210 205 206 206 207 217 210 208 209 217 220 220	214 218 230 231 230 230 228 228 230 241 238 241 247 247 247 250 250 246 247 248 255 245 217 217	212 213 217 221 227 226 226 227 228 236 238 244 245 247 243 242 244 199 235 214 210 214 214	213 216 222 227 228 228 226 227 229 234 237 241 245 245 245 245 248 249 243 246 245 248 249 241 245 246 247
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27	144 131 126 128 124 124 124 1229 131 127 126 123 120 118 117 123 120 118 117 123 120 118 119 120 120 120	137 117 116 119 117 119 118 119 124 126 121 116 115 116 111 113 120 122 117 116 117 118 119	130 122 123 123 121 120 121 120 121 126 128 126 123 119 118 117 113 120 122 120 118 118 119 120 121 120 120 120	126 127 127 128 129 131 134 141 143 147 149 159 156 156 156 158 159 160 171 171 175 179 182 183	124 124 125 126 127 128 129 131 133 140 140 145 153 153 154 156 157 160 168 169 171 177 179 173	125 126 126 127 128 130 132 137 141 144 147 153 154 154 155 157 158 160 167 169 172 174 178 180	193 194 193 194 195 199 208 220 225 226 221 224 225 216 214 208 207 220 220 220 221 220 221 220 221 220 225 226 221 224 225 226 227 228 228 228 228 228 228 228 228 228	188 189 191 191 193 183 196 203 211 219 204 203 215 213 207 204 205 202 204 212 208 205 209 214	191 192 192 192 194 196 203 209 215 223 212 207 220 214 210 205 206 206 207 217 210 208 209 217 220	214 218 230 231 230 230 228 228 230 241 238 241 247 247 247 250 250 246 247 248 255 245 217 217	212 213 217 221 227 226 226 227 228 236 238 244 245 247 243 244 199 235 214 210 214 214 214	213 216 222 227 228 228 228 226 227 229 234 237 241 245 245 245 245 245 245 246 245 246 247 216 216 217
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	144 131 126 128 124 124 124 124 129 131 127 126 123 120 118 117 123 124 123 120 118 117 123 124 123 120 120 120 120 120 120 120 120 120 120	137 117 116 119 117 119 118 119 124 126 121 116 115 116 111 113 120 122 117 116 117 118 119	130 122 123 123 121 120 121 126 128 126 123 119 118 117 113 120 122 122 120 118 118 119 120 121 121 120 122	126 127 127 128 129 131 134 141 143 147 149 159 156 156 156 158 159 160 171 171 175 179 182 183 180 183	124 124 125 126 127 128 129 131 133 140 140 145 147 153 153 154 156 157 159 160 168 169 171 175 177	125 126 126 127 128 130 132 137 141 144 147 153 154 155 157 158 160 167 169 172 174 178 180 180 179 182 186	193 194 193 194 195 199 208 220 225 226 221 224 225 216 214 208 208 207 220 220 220 221 221 222 223 223 225 221	188 189 191 191 193 183 196 203 211 219 204 203 215 213 207 204 202 204 212 208 205 209 214 217 216 212 217	191 192 192 192 194 196 203 209 215 223 212 207 220 214 210 205 206 206 207 217 210 208 209 217 220 221 219 219 219 219 219 219 219 219 219	214 218 230 231 230 230 228 228 230 241 238 241 247 247 247 250 250 246 247 248 255 215 217 217 217 217 217 218 221	212 213 217 221 227 226 226 227 228 236 238 244 245 247 243 242 244 199 235 210 214 214 214 215 216 216 217	213 216 222 227 228 228 226 227 229 234 237 241 245 245 245 245 248 224 247 248 249 243 246 245 246 247 248 249 241 245 245 246 247 248 249 249 249 249 249 249 249 249 249 249
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	144 131 126 128 124 124 124 129 131 127 126 123 120 118 117 123 124 123 120 118 117 123 124 123 120 120 120 120 120 120 120 120 120 120	137 117 116 119 117 119 118 119 124 126 126 121 116 115 116 111 113 120 122 117 116 117 118 119 121 121 121 121 121 121 121 121 121	130 122 123 123 121 120 121 126 128 126 123 119 118 117 113 120 122 120 118 118 119 120 121 120 121 121 120 121 121 120 121 121	126 127 127 128 129 131 134 141 143 147 149 159 156 156 158 159 160 171 171 175 179 182 183 181 180 183 191	124 124 125 126 127 128 129 131 133 140 140 145 153 153 154 156 157 159 160 168 169 171 175 177	125 126 126 127 128 130 132 137 141 144 147 153 154 154 157 158 160 167 169 172 174 178 180 180 179 182 186 187	193 194 193 194 195 199 208 220 225 226 221 224 225 216 214 208 207 220 220 220 221 221 220 221 221 221 221	188 189 191 193 183 196 203 211 219 204 203 215 213 207 204 205 202 204 212 208 205 206 209 214 217 216 212 211 211	191 192 192 192 194 196 203 209 215 223 212 207 220 214 210 205 206 207 217 210 208 209 217 220 221 219 219 219 219 219 219 219 219 219	214 218 230 231 230 230 228 228 230 241 238 241 247 247 247 247 250 250 246 247 248 255 217 217 217 217 217 218 221 223	212 213 217 221 227 226 226 227 228 236 238 244 245 247 243 242 244 199 235 214 214 214 216 216 217 229	213 216 222 227 228 228 228 226 227 229 234 237 241 245 245 245 245 245 245 246 245 246 247 216 217 217 217 219 221
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	144 131 126 128 124 124 124 124 129 131 127 126 123 120 118 117 123 124 123 120 118 117 123 124 123 120 120 120 120 120 120 120 120 120 120	137 117 116 119 117 119 118 119 124 126 121 116 115 116 111 113 120 122 117 116 117 118 119	130 122 123 123 121 120 121 126 128 126 123 119 118 117 113 120 122 122 120 118 118 119 120 121 121 120 122	126 127 127 128 129 131 134 141 143 147 149 159 156 156 156 158 159 160 171 171 175 179 182 183 180 183	124 124 125 126 127 128 129 131 133 140 140 145 147 153 153 154 156 157 159 160 168 169 171 175 177	125 126 126 127 128 130 132 137 141 144 147 153 154 155 157 158 160 167 169 172 174 178 180 180 179 182 186	193 194 193 194 195 199 208 220 225 226 221 224 225 216 214 208 208 207 220 220 220 221 221 222 223 223 225 221	188 189 191 191 193 183 196 203 211 219 204 203 215 213 207 204 202 204 212 208 205 209 214 217 216 212 217	191 192 192 192 194 196 203 209 215 223 212 207 220 214 210 205 206 206 207 217 210 208 209 217 220 221 219 219 219 219 219 219 219 219 219	214 218 230 231 230 230 228 228 230 241 238 241 247 247 247 250 250 246 247 248 255 215 217 217 217 217 217 218 221	212 213 217 221 227 226 226 227 228 236 238 244 245 247 243 242 244 199 235 210 214 214 214 215 216 216 217	213 216 222 227 228 228 226 227 229 234 237 241 245 245 245 245 248 224 247 248 249 243 246 245 246 247 248 249 241 245 245 246 247 248 249 249 249 249 249 249 249 249 249 249
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	144 131 126 128 124 124 124 129 131 127 126 123 120 118 117 123 124 123 120 118 117 123 124 123 120 120 120 120 120 120 120 120 120 120	137 117 116 119 117 119 118 119 124 126 126 121 116 115 116 111 113 120 122 117 116 117 118 119 121 121 121 121 121 121 121 121 121	130 122 123 123 121 120 121 126 128 126 123 119 118 117 113 120 122 120 118 118 119 120 121 120 121 121 120 121 121 120 121 121	126 127 127 128 129 131 134 141 143 147 149 159 156 156 158 159 160 171 171 175 179 182 183 181 180 183 191	124 124 125 126 127 128 129 131 133 140 140 145 153 153 154 156 157 159 160 168 169 171 175 177	125 126 126 127 128 130 132 137 141 144 147 153 154 154 157 158 160 167 169 172 174 178 180 180 179 182 186 187	193 194 193 194 195 199 208 220 225 226 221 224 225 216 214 208 207 220 220 220 221 221 220 221 221 221 221	188 189 191 193 183 196 203 211 219 204 203 215 213 207 204 205 202 204 212 208 205 206 209 214 217 216 212 211 211	191 192 192 192 194 196 203 209 215 223 212 207 220 214 210 205 206 207 217 210 208 209 217 220 221 219 219 219 219 219 219 219 219 219	214 218 230 231 230 230 228 228 230 241 238 241 247 247 247 247 250 250 246 247 248 255 217 217 217 217 217 218 221 223	212 213 217 221 227 226 226 227 228 236 238 244 245 247 243 242 244 199 235 214 214 214 216 216 217 229	213 216 222 227 228 228 228 226 227 229 234 237 241 245 245 245 245 245 245 246 245 246 247 216 217 217 217 219 221

RIO GRANDE BASIN 459

08236500 ALAMOSA RIVER BELOW TERRACE RESERVOIR, CO--Continued

pH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

5311				******						******		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DE	ECEMBER			JANUARY	
1	6.0	5.8	5.9									
2	6.1	6.0	6.1									
4												
5												
6												
7 8												
9												
10												
11												
12 13												
14												
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17 18												
19												
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21												
22												
23 24												
25												
26												
27												
28 29												
30												
31												
MONTH												
	1	FEBRUARY			MARCH			APRIL			MAY	
1		FEBRUARY			MARCH		8.4	APRIL 7.3	7.7	7.0	MAY 7.0	7.0
2							8.7	7.3 7.4	7.9	7.1	7.0 7.0	7.0
								7.3			7.0	
2							8.7 8.5	7.3 7.4 7.4	7.9 7.8	7.1 7.1	7.0 7.0 7.0	7.0 7.0
2 3 4			 		  		8.7 8.5 8.5	7.3 7.4 7.4 7.4	7.9 7.8 7.8	7.1 7.1 7.1	7.0 7.0 7.0 7.0	7.0 7.0 7.0
2 3 4 5				  		  	8.7 8.5 8.5 8.3 8.2 7.7	7.3 7.4 7.4 7.4 7.4 7.4	7.9 7.8 7.8 7.7 7.7	7.1 7.1 7.1 7.1 7.1 7.1	7.0 7.0 7.0 7.0 7.0 7.0	7.0 7.0 7.0 7.1
2 3 4 5 6 7 8							8.7 8.5 8.5 8.3 8.2 7.7 7.1	7.3 7.4 7.4 7.4 7.4 7.1	7.9 7.8 7.8 7.7 7.7 7.3 7.1	7.1 7.1 7.1 7.1 7.1 7.1 7.1	7.0 7.0 7.0 7.0 7.0 7.0 7.0	7.0 7.0 7.0 7.1 7.0 7.1 7.1
2 3 4 5	  			   			8.7 8.5 8.5 8.3 8.2 7.7	7.3 7.4 7.4 7.4 7.4 7.4	7.9 7.8 7.8 7.7 7.7	7.1 7.1 7.1 7.1 7.1 7.1	7.0 7.0 7.0 7.0 7.0 7.0	7.0 7.0 7.0 7.1 7.0 7.1
2 3 4 5 6 7 8 9				==== ==== ==== ====		  	8.7 8.5 8.5 8.3 8.2 7.7 7.1 7.2	7.3 7.4 7.4 7.4 7.4 7.4 7.1 7.1	7.9 7.8 7.8 7.7 7.7 7.3 7.1 7.1	7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.2	7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.1 7.1	7.0 7.0 7.0 7.1 7.0 7.1 7.1 7.1 7.2
2 3 4 5 6 7 8 9 10			    				8.7 8.5 8.5 8.3 8.2 7.7 7.1 7.2 7.1 7.1 7.1	7.3 7.4 7.4 7.4 7.4 7.1 7.1 7.1 7.1 7.1	7.9 7.8 7.8 7.7 7.7 7.3 7.1 7.1 7.1	7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2	7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.1 7.1 7.1 7.2	7.0 7.0 7.0 7.1 7.1 7.1 7.1 7.2 7.2
2 3 4 5 6 7 8 9 10 11 12 13		      					8.7 8.5 8.5 8.3 8.2 7.7 7.1 7.2 7.1 7.1 7.2	7.3 7.4 7.4 7.4 7.4 7.1 7.1 7.1 7.1 7.1 7.1	7.9 7.8 7.8 7.7 7.7 7.3 7.1 7.1 7.1 7.1	7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.2	7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.1 7.1 7.1 7.2 7.2	7.0 7.0 7.0 7.1 7.1 7.1 7.1 7.2 7.2 7.2
2 3 4 5 6 7 8 9 10			    				8.7 8.5 8.5 8.3 8.2 7.7 7.1 7.2 7.1 7.1 7.1	7.3 7.4 7.4 7.4 7.4 7.1 7.1 7.1 7.1 7.1	7.9 7.8 7.8 7.7 7.7 7.3 7.1 7.1 7.1	7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2	7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.1 7.1 7.1 7.2	7.0 7.0 7.0 7.1 7.1 7.1 7.1 7.2 7.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15							8.7 8.5 8.5 8.3 8.2 7.7 7.1 7.2 7.1 7.1 7.2 7.2 7.2	7.3 7.4 7.4 7.4 7.1 7.1 7.1 7.1 7.1 7.1 7.1	7.9 7.8 7.8 7.7 7.7 7.3 7.1 7.1 7.1 7.1 7.1 7.1	7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2	7.0 7.0 7.0 7.0 7.0 7.0 7.1 7.1 7.1 7.2 7.2 7.2 7.2	7.0 7.0 7.0 7.1 7.0 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15							8.7 8.5 8.5 8.3 8.2 7.7 7.1 7.2 7.1 7.2 7.2 7.3	7.3 7.4 7.4 7.4 7.4 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1	7.9 7.8 7.8 7.7 7.7 7.3 7.1 7.1 7.1 7.1 7.1 7.2 7.3	7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.3 7.3 7.3 7.2 7.2	7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.1 7.1 7.1 7.2 7.2 7.2 7.2	7.0 7.0 7.0 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18				       8.6		        7.7	8.7 8.5 8.5 8.3 8.2 7.7 7.1 7.2 7.1 7.1 7.2 7.2 7.3	7.3 7.4 7.4 7.4 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.3	7.9 7.8 7.8 7.7 7.7 7.3 7.1 7.1 7.1 7.1 7.1 7.2 7.3 7.3 7.3	7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.2 7.2	7.0 7.0 7.0 7.0 7.0 7.0 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.0 6.6 6.3 6.3	7.0 7.0 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.1 7.0 6.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15							8.7 8.5 8.5 8.3 8.2 7.7 7.1 7.2 7.1 7.2 7.2 7.3	7.3 7.4 7.4 7.4 7.4 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1	7.9 7.8 7.8 7.7 7.7 7.3 7.1 7.1 7.1 7.1 7.1 7.2 7.3	7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.3 7.3 7.3 7.2 7.2	7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.0	7.0 7.0 7.0 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20				       8.6 8.7 8.6	        7.2 7.3	        7.7	8.7 8.5 8.5 8.3 8.2 7.7 7.1 7.2 7.1 7.1 7.2 7.3 7.4 7.3 7.3	7.3 7.4 7.4 7.4 7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2	7.9 7.8 7.8 7.7 7.7 7.3 7.1 7.1 7.1 7.1 7.1 7.2 7.3 7.3 7.3 7.3 7.3	7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.3 7.3 7.2 7.1 6.4 6.5 6.7	7.0 7.0 7.0 7.0 7.0 7.0 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.0 6.6 6.3 6.3 6.3	7.0 7.0 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.1 7.0 6.5 6.3 6.4
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18				       8.6	        7.2 7.3 7.3	       7.7	8.7 8.5 8.5 8.3 8.2 7.7 7.1 7.1 7.1 7.2 7.2 7.3 7.4 7.4 7.3 7.3	7.3 7.4 7.4 7.4 7.4 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.3 7.2	7.9 7.8 7.8 7.7 7.7 7.3 7.1 7.1 7.1 7.1 7.1 7.2 7.3 7.3 7.3 7.3	7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.3 7.3 7.2 7.2 7.2	7.0 7.0 7.0 7.0 7.0 7.0 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.3 6.6 6.3 6.3 6.3	7.0 7.0 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.1 7.0 6.5 6.3 6.4
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23				      8.6 8.7 8.6 8.7 8.8	       7.2 7.3 7.3 7.3	       7.7 7.7 7.9 7.9	8.7 8.5 8.5 8.3 8.2 7.7 7.1 7.1 7.2 7.1 7.2 7.3 7.4 7.3 7.3 7.3	7.3 7.4 7.4 7.4 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1	7.9 7.8 7.8 7.7 7.7 7.3 7.1 7.1 7.1 7.1 7.1 7.2 7.3 7.3 7.3 7.2 7.2	7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.3 7.3 7.2 7.1 6.4 6.5 6.7	7.0 7.0 7.0 7.0 7.0 7.0 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.6 6.3 6.3 6.5 6.5	7.0 7.0 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 6.5 6.3 6.4 6.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24				        8.6 8.7 8.6 8.7 8.8 8.7 8.7	        7.2 7.3 7.3 7.3 7.3	        7.7 7.7	8.7 8.5 8.5 8.3 8.2 7.7 7.1 7.1 7.2 7.2 7.2 7.3 7.4 7.3 7.3 7.3 7.2 7.2 7.2 7.2	7.3 7.4 7.4 7.4 7.4 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1	7.9 7.8 7.8 7.7 7.7 7.3 7.1 7.1 7.1 7.1 7.1 7.2 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.1	7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.3 7.2 7.2 7.2 7.6.4 6.5 6.7 6.7 6.7	7.0 7.0 7.0 7.0 7.0 7.0 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 6.6 6.3 6.3 6.5 6.5 6.5 6.5	7.0 7.0 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 6.5 6.4 6.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25				      8.6 8.7 8.6 8.7 8.8 8.7 8.7 8.8	       7.2 7.3 7.3 7.3 7.3 7.3	      7.7 7.7 7.7 7.9 7.9 7.9 7.9	8.7 8.5 8.5 8.3 8.2 7.7 7.1 7.1 7.2 7.1 7.2 7.3 7.4 7.3 7.3 7.3 7.2 7.1	7.3 7.4 7.4 7.4 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1	7.9 7.8 7.8 7.7 7.7 7.7 7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.3 7.3 7.3 7.2 7.2 7.1	7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.3 7.3 7.2 7.1 6.7 6.7 6.7 6.7 6.7 6.7	7.0 7.0 7.0 7.0 7.0 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.6 6.3 6.3 6.5 6.5 6.5	7.0 7.0 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.6 6.5 6.3 6.4 6.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26				         8.6 8.7 8.6 8.7 8.8 8.7 8.8 8.7 8.4		        7.7 7.7	8.7 8.5 8.5 8.3 8.2 7.7 7.1 7.1 7.2 7.2 7.2 7.3 7.4 7.3 7.3 7.3 7.2 7.2 7.2 7.1	7.3 7.4 7.4 7.4 7.4 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1	7.9 7.8 7.8 7.7 7.7 7.7 7.1 7.1 7.1 7.1 7.1 7.2 7.3 7.3 7.3 7.3 7.3 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1	7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.3 7.2 7.2 7.2 7.6.4 6.5 6.7 6.7 6.7 6.5	7.0 7.0 7.0 7.0 7.0 7.0 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 6.6 6.3 6.5 6.5 6.5 6.5 6.5	7.0 7.0 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.6 6.5 6.6 6.6 6.5 6.6 6.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25				      8.6 8.7 8.6 8.7 8.8 8.7 8.7 8.8	       7.2 7.3 7.3 7.3 7.3 7.3	      7.7 7.7 7.7 7.9 7.9 7.9 7.9	8.7 8.5 8.5 8.3 8.2 7.7 7.1 7.1 7.2 7.1 7.2 7.3 7.4 7.3 7.3 7.3 7.2 7.1	7.3 7.4 7.4 7.4 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1	7.9 7.8 7.8 7.7 7.7 7.7 7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.3 7.3 7.3 7.2 7.2 7.1	7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.3 7.3 7.2 7.1 6.7 6.7 6.7 6.7 6.7 6.7	7.0 7.0 7.0 7.0 7.0 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.6 6.3 6.3 6.5 6.5 6.5	7.0 7.0 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.6 6.5 6.3 6.4 6.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29				       8.6 8.7 8.6 8.7 8.8 8.7 8.7 8.4 8.5 8.7 8.6 8.7			8.7 8.5 8.5 8.3 8.2 7.7 7.1 7.1 7.2 7.2 7.3 7.4 7.3 7.3 7.3 7.2 7.2 7.2 7.1 7.1 7.1 7.3 7.3	7.3 7.4 7.4 7.4 7.4 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1	7.9 7.8 7.8 7.7 7.7 7.7 7.1 7.1 7.1 7.1 7.1 7.2 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.1 7.1 7.1 7.1 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.3 7.2 7.2 7.3 6.4 6.5 6.7 6.7 6.5 6.7 6.4 6.5	7.0 7.0 7.0 7.0 7.0 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 6.6 6.3 6.5 6.5 6.5 6.5 6.5 6.5 6.2	7.0 7.0 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.6 6.5 6.6 6.6 6.6 6.5 6.5 6.3 6.3 6.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28				      8.6 8.7 8.6 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.4		       7.7 7.7 7.7	8.7 8.5 8.5 8.3 8.2 7.7 7.1 7.1 7.2 7.1 7.2 7.3 7.4 7.3 7.3 7.3 7.2 7.1 7.1 7.1 7.1 7.1 7.1 7.1	7.3 7.4 7.4 7.4 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1	7.9 7.8 7.8 7.7 7.7 7.7 7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.3 7.3 7.3 7.3 7.2 7.2 7.1 7.1 7.0 7.0 7.0	7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.2 7.2 7.6.4 6.7 6.5 6.7 6.5 6.7 6.5	7.0 7.0 7.0 7.0 7.0 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 6.3 6.3 6.5 6.5 6.4 6.5 6.5 6.4 6.2 6.2 6.2	7.0 7.0 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.1 6.5 6.3 6.6 6.5 6.5 6.5 6.3 6.3 6.3 6.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30				       8.6 8.7 8.6 8.7 8.8 8.7 8.7 8.4 8.5 8.7 8.6 8.7			8.7 8.5 8.5 8.3 8.2 7.7 7.1 7.1 7.2 7.1 7.2 7.3 7.4 7.3 7.3 7.2 7.2 7.2 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1	7.3 7.4 7.4 7.4 7.4 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1	7.9 7.8 7.8 7.7 7.7 7.3 7.1 7.1 7.1 7.1 7.1 7.2 7.3 7.3 7.3 7.3 7.2 7.1 7.2 7.1	7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.3 7.2 7.2 7.3 6.4 6.5 6.7 6.7 6.5 6.7 6.4 6.5	7.0 7.0 7.0 7.0 7.0 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 6.6 6.3 6.5 6.5 6.5 6.5 6.5 6.5 6.2	7.0 7.0 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.1 6.5 6.3 6.4 6.7 6.6 6.6 6.6 6.5

## 08236500 ALAMOSA RIVER BELOW TERRACE RESERVOIR, CO--Continued

pH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

			1 ,	,	, ,							
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		1	AUGUST			SEPTEMBE	R
1 2 3 4 5	6.0 5.8 5.8 5.8	5.7 5.6 5.6 5.7	5.8 5.7 5.7 5.7 5.8	6.8 6.9 7.0 7.0	6.7 6.7 6.9 6.9	6.8 6.9 7.0 7.0	6.8 6.9 6.9 6.8	6.6 6.6 6.7 6.6	6.7 6.7 6.8 6.7	6.7 6.7 6.7 6.8	6.6 6.6 6.6 6.7	6.6 6.7 6.7 6.7
6 7 8 9 10	5.8 5.9 6.2 6.4 6.5	5.8 5.9 6.2 6.4	5.8 5.9 6.0 6.3 6.4	7.0 7.1 7.1 7.1 7.2	7.0 7.0 7.0 7.0 7.0	7.0 7.0 7.1 7.1 7.1	6.8 6.7 6.4 5.9 5.5	6.6 6.3 5.7 5.5 5.4	6.7 6.6 6.2 5.7	6.8 6.8 6.8	6.7 6.6 6.7 6.7	6.7 6.7 6.7 6.7
11 12 13 14 15	6.4 6.1 6.3 6.5	6.1 6.0 6.1 6.2 6.3	6.3 6.1 6.2 6.4	7.2 7.2 7.1 7.1	7.1 7.1 7.0 7.0 7.0	7.1 7.1 7.1 7.1 7.1	5.8 5.5 5.4 5.5 5.8	5.5 5.2 5.2 5.4 5.5	5.6 5.5 5.3 5.5 5.6	6.7 6.8 6.8 6.8	6.6 6.7 6.7	6.7 6.7 6.7 6.7
16 17 18 19 20	6.6 6.7 6.7 6.5	6.5 6.6 6.5 6.4	6.6 6.7 6.5 6.4	7.1 7.1 7.1 7.1 7.1	6.9 6.9 6.9 6.9	7.0 7.0 7.0 7.0 7.0	6.1 6.0 6.0 6.3 6.4	5.8 5.7 5.8 5.9 6.3	6.0 5.8 5.9 6.0 6.3	6.8 6.7 6.8 6.8	6.7 6.6 6.6 6.7	6.7 6.7 6.7 6.7
21 22 23 24 25	6.5 6.5 6.5 6.5	6.4 6.5 6.4 6.4	6.5 6.5 6.5 6.4	7.1 7.1 7.1 7.1 7.1	6.9 6.9 6.9 6.9	7.0 7.0 7.0 7.0 7.0	6.3 6.4 6.7 6.6	6.2 6.3 6.4 6.4	6.3 6.4 6.6 6.5	6.8 6.5 6.7 6.8 6.9	6.5 6.3 6.4 6.7 6.8	6.7 6.4 6.5 6.8 6.9
26 27 28 29 30 31	6.5 6.6 6.8 6.8	6.3 6.4 6.6 6.7 	6.4 6.6 6.7 6.7 6.8	7.1 7.1 7.0 7.0 7.0 6.8	6.9 6.9 6.8 6.7 6.6	7.0 7.0 6.9 6.9 6.8 6.7	6.6 6.5 6.7 6.7	6.4 6.4 6.5 6.6	6.5 6.5 6.6 6.7	7.0 7.0 7.0 6.9 6.9	6.9 6.9 6.9 6.8	6.9 6.9 6.9 6.9
MONTH	6.8	5.6	6.3	7.2	6.6	7.0	6.9	5.2	6.2	7.0	6.3	6.7

TEMPERATURE,	WATER (DEG.	C) WATER	YEAR OCTOBER	1996 TO SEPTEMBER 1	997
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		OCTOBER		NC	OVEMBER	DE	CEMBER		JANUARY	
1	11.5	9.0	9.8			 		 		
2	11.6	9.0	9.8			 		 		
3		9.0				 		 		
4						 		 		
5						 		 		
6						 		 		
7						 		 		
8						 		 		
9						 		 		
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23						 		 		
24						 		 		
25						 		 		
26						 		 		
27						 		 		
28						 		 		
29						 		 		
30						 		 		
31						 		 		
MONTH						 		 		

## 08236500 ALAMOSA RIVER BELOW TERRACE RESERVOIR, CO--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	  	  	  	  	  	  	10.7 8.8 9.4 8.5 7.2	5.1 4.6 4.7 4.9 3.4	6.9 6.0 6.3 6.2 4.8	6.1 6.5 6.8 7.3 6.9	5.3 5.1 5.2 5.5 5.8	5.5 5.6 5.8 6.2 6.2
6 7 8 9 10	  		  	  	  		8.2 5.2 5.6 5.3 5.1	3.1 3.2 3.0 3.3 3.0	5.1 3.9 3.8 3.9 3.7	7.0 7.1 7.1 6.3 7.2	6.1 6.2 6.2 6.1 5.8	6.3 6.6 6.6 6.2 6.4
11 12 13 14 15	  		  	  	  	  	4.3 4.3 4.7 5.4 5.8	2.8 2.6 2.6 2.8 3.1	3.3 3.2 3.4 3.7 4.0	7.1 6.6 6.7 6.2 6.4	5.7 5.9 5.8 5.8 5.5	6.4 6.2 6.2 6.1 5.8
16 17 18 19 20		  	  	 10.1 10.6 11.0	 3.9 4.0 4.5	 6.1 6.4 6.9	6.0 6.0 5.7 5.6 5.7	3.3 3.4 3.7 4.0 4.1	4.1 4.3 4.4 4.6 4.7	6.1 5.9 6.1 5.9 6.0	5.2 5.2 5.3 5.2 5.3	5.7 5.5 5.9 5.6 5.7
21 22 23 24 25	  	  	  	11.0 10.7 11.3 10.2 10.0	4.7 4.6 4.9 4.3 3.8	7.0 7.0 7.1 6.4 6.3	5.7 5.5 5.5 5.7 5.1	4.3 4.7 4.7 4.5 4.6	5.0 5.0 5.1 4.9 4.9	6.0 6.0 6.2 6.0 6.2	5.6 5.6 5.7 5.4 5.2	5.8 5.7 5.9 5.7 5.7
26 27 28 29 30 31		  	  	10.6 10.6 10.7 8.4 10.5 10.6	4.1 4.7 4.6 4.5 3.7 4.6	6.5 6.8 6.8 6.1 6.3 6.8	5.9 6.3 5.7 6.5 	4.6 4.6 4.9 4.8 5.0	5.0 5.2 5.2 5.5 5.6	6.2 6.4 6.2 6.5 6.5	5.7 5.7 5.9 6.0 6.0	5.9 6.0 6.0 6.2 6.3
MONITULE							10.7	2.6	4.7	7.3	5.1	6.0
MONTH								2.0	1.7			
MONIH		JUNE			JULY			AUGUST	1.,		SEPTEMBE	
1 2 3 4 5	6.7 6.7 6.8 6.9 7.1		6.3 6.3 6.5 6.6 6.7	10.2 10.4 10.6 10.7 10.7	JULY 9.4 9.5 9.7 9.8	9.7 9.8 9.9 10.1 10.1			13.4 13.4 13.5 13.4 13.5			
1 2 3 4	6.7 6.7 6.8 6.9	JUNE 5.9 5.9 6.0 6.2	6.3 6.3 6.5 6.6	10.4 10.6 10.7	9.4 9.5 9.5 9.7	9.7 9.8 9.9 10.1	14.4 14.6 14.8 14.2	AUGUST 13.0 13.1 13.1 13.0	13.4 13.4 13.5 13.4	14.6 15.1 15.1 14.9	SEPTEMBE 13.5 13.5 13.6 13.5	13.9 14.0 14.0 13.9
1 2 3 4 5 6 7 8 9	6.7 6.7 6.8 6.9 7.1 7.1 7.3 7.6 7.3	JUNE 5.9 5.9 6.0 6.2 6.4 6.6 6.9 7.1 6.9	6.3 6.3 6.5 6.6 6.7 6.9 7.1 7.3 7.1	10.4 10.6 10.7 10.7 10.8 11.1 11.3 11.4	9.4 9.5 9.5 9.7 9.8 9.9 10.1 10.3 10.5	9.7 9.8 9.9 10.1 10.1 10.3 10.4 10.6 10.8	14.4 14.6 14.8 14.2 14.4 13.9 14.4	AUGUST  13.0 13.1 13.1 13.0 13.2 13.1 13.2 12.9 12.8	13.4 13.5 13.5 13.5 13.5 13.5 13.5 13.4	14.6 15.1 15.1 14.9 14.8 14.6 14.7 14.8	SEPTEMBE  13.5 13.5 13.6 13.5 13.3 13.3 13.3 13.3 13.3	13.9 14.0 14.0 13.9 13.7 13.8 13.8 13.7 13.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14	6.7 6.7 6.8 6.9 7.1 7.1 7.3 7.4 7.5 7.5 7.7	JUNE 5.9 5.9 6.0 6.2 6.4 6.6 6.9 7.1 6.9 6.8 7.1 7.1	6.3 6.3 6.5 6.6 6.7 6.9 7.1 7.0 7.2 7.3 7.4 7.5	10.4 10.6 10.7 10.7 10.8 11.1 11.3 11.4 11.6	9.4 9.5 9.5 9.7 9.8 9.9 10.1 10.3 10.5 10.6	9.7 9.8 9.9 10.1 10.3 10.4 10.6 10.8 11.0	14.4 14.6 14.8 14.2 14.4 14.4 14.4 14.2 14.2 14.0	AUGUST  13.0 13.1 13.1 13.0 13.2 13.1 13.2 12.9 12.8 12.9 12.7 12.6 12.7 12.8	13.4 13.5 13.4 13.5 13.5 13.5 13.5 13.3 13.3 13.3	14.6 15.1 15.1 14.9 14.8 14.6 14.7 14.8 14.3 14.6 14.7 14.7	SEPTEMBE  13.5 13.5 13.6 13.5 13.3 13.3 13.3 13.3 13.2 13.3 13.1 12.9 13.0 12.9 12.8	13.9 14.0 14.0 13.9 13.7 13.8 13.8 13.6 13.6 13.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	6.7 6.8 6.9 7.1 7.1 7.3 7.6 7.3 7.4 7.5 7.7 7.9 8.1 8.1 8.1	JUNE 5.9 6.0 6.2 6.4 6.6 6.9 7.1 6.9 6.8 7.1 7.3 7.4 7.6 7.7 7.8 7.9	6.3 6.3 6.5 6.6 6.7 6.9 7.1 7.3 7.1 7.0 7.2 7.3 7.5 7.6	10.4 10.6 10.7 10.7 10.8 11.1 11.3 11.4 11.6 11.8 11.9 12.1 12.2	9.4 9.5 9.5 9.7 9.8 9.9 10.1 10.3 10.5 10.6 10.8 10.7 10.8 11.0 11.1 11.2 11.4 11.7	9.7 9.8 9.9 10.1 10.3 10.4 10.6 10.8 11.0 11.1 11.2 11.3 11.4 11.5 11.7 11.8 12.0	14.4 14.6 14.8 14.2 14.4 13.9 14.4 14.2 14.2 14.2 14.2 14.2 14.2 14.2	AUGUST  13.0 13.1 13.1 13.0 13.2 13.1 13.2 12.9 12.8 12.9 12.7 12.6 12.7 12.8 12.7 12.7 12.7 12.7 12.7 12.7	13.4 13.5 13.5 13.5 13.5 13.5 13.3 13.3 13.2 13.1 13.1 13.1 13.2	14.6 15.1 15.1 14.9 14.8 14.6 14.7 14.8 14.3 14.6 14.7 14.3 14.0	SEPTEMBE  13.5 13.5 13.6 13.5 13.3 13.3 13.3 13.2 13.3 13.1 12.9 12.8 12.7 12.7 12.5 12.6 12.6	13.9 14.0 14.0 13.9 13.7 13.8 13.8 13.6 13.6 13.6 13.4 13.3 13.3 13.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	6.7 6.8 6.9 7.1 7.1 7.3 7.6 7.3 7.4 7.5 7.5 7.7 7.9 8.1 8.4 8.5 8.6 8.7 8.9 9.1	JUNE 5.9 6.0 6.2 6.4 6.6 7.1 6.9 6.8 7.1 7.3 7.4 7.6 7.7 8.1 8.3 8.3 8.5 8.6	6.3 6.3 6.5 6.6 6.7 6.9 7.1 7.3 7.1 7.0 7.2 7.3 7.5 7.6 7.8 8.0 8.2 8.4 8.6 8.7 8.9	10.4 10.6 10.7 10.7 10.8 11.1 11.3 11.4 11.6 11.8 11.9 12.1 12.2 12.2 12.4 12.5 12.4 12.9 12.1 13.3	9.4 9.5 9.7 9.8 9.9 10.1 10.3 10.5 10.6 10.8 10.7 10.8 11.0 11.1 11.2 11.4 11.7 11.8 12.0 12.3 12.3	9.7 9.8 9.9 10.1 10.3 10.4 10.6 10.8 11.0 11.1 11.2 11.3 11.4 11.5 11.7 11.8 12.0 12.1	14.4 14.6 14.8 14.2 14.4 13.9 14.4 14.2 14.2 14.2 14.2 14.2 14.3 14.2 14.3 14.3	AUGUST  13.0 13.1 13.1 13.0 13.2 13.1 13.2 12.9 12.8 12.9 12.7 12.6 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.9 12.7 12.6 12.8 13.0 12.9	13.4 13.5 13.5 13.5 13.5 13.5 13.3 13.2 13.1 13.1 13.1 13.2 13.2 13.2	14.6 15.1 15.1 14.9 14.8 14.6 14.7 14.8 14.3 14.6 14.7 14.7 14.3 14.0 13.9 14.1 13.8 14.3 13.5	SEPTEMBE  13.5 13.5 13.6 13.5 13.3 13.3 13.3 13.2 13.3 13.1 12.9 12.9 12.8 12.7 12.7 12.5 12.6 12.6 12.6 12.1 11.0 10.5 10.2	13.9 14.0 14.0 13.9 13.7 13.8 13.8 13.6 13.6 13.4 13.3 13.3 13.1 12.9 12.8 11.8 11.8 11.9

## 08240000 RIO GRANDE ABOVE MOUTH OF TRINCHERA CREEK, NEAR LASAUSES, CO

LOCATION.--Lat 37°18'58", long 105°44'32", in sec.35, T.36 N., R.11 E., Conejos County, Hydrologic Unit 13010002, on right bank 0.2 mi upstream from Trinchera Creek, 3.2 mi north of Lasauses, and 13 mi southeast of Alamosa.

DRAINAGE AREA.--5,740 mi², approximately, includes 2,940 mi² in closed basin in northern part of San Luis Valley, CO.

PERIOD OF RECORD.--May 1936 to current year. Water-quality data available, May 1993 to September 1996.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,500 ft above sea level, estimated from nearby level lines.

REMARKS.--Records good except for estimated daily discharges which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. Due to changes over the years, most of the flow from Trinchera Creek enters the Rio Grande above the station.

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

			DISC	HARGE, CU	BIC FEET PEF	R SECOND DAIL	), WATER YEA LY MEAN VAL	AR OCTOBE LUES	R 1996 TO	SEPTEMBER 1	997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e35	98	e85	e285	e280	274	364	159	728	698	414	353
2	e35	132	e95	e310	e290	288	285	159	1020	692	373	400
3	e36	123	e105	e280	e245	283	258	161	1340	679	271	452
4	e38	113	e115	e255	e260	288	234	154	1740	609	287	424
5	e48	109	e150	e175	e280	277	211	154	2010	447	325	405
6	e44	96	e165	e195	e255	279	206	150	1850	405	327	388
7	e39	86	e175	e240	e250	277	196	171	1680	620	440	389
8	e39	80	e210	e245	e255	302	180	240	1630	501	564	369
9	e39	77	e240	e250	e250	314	186	194	1360	406	649	364
10	e39	77	e230	e260	e260	320	190	191	1320	351	653	365
11	e46	77	e225	e270	e265	345	194	164	1080	337	670	357
12	e48	80	e190	e265	e275	358	187	164	1010	327	672	382
13	e42	78	e165	e265	e240	384	176	153	957	332	643	359
14	e42	77	e135	e245	280	397	172	180	928	298	670	342
15	e41	77	e120	e245	281	429	165	208	833	285	669	332
16	41	79	e105	e250	281	442	170	354	763	249	587	313
17	e41	79	e65	e250	277	465	162	464	765	261	529	302
18	e41	75	e200	e255	280	475	164	580	866	232	499	329
19	41	77	e220	e240	286	483	185	667	789	291	479	308
20	43	79	e195	e250	285	469	191	884	860	275	450	285
21	49	78	e190	e245	262	476	201	990	903	281	423	340
22	65	79	e180	e245	282	503	178	657	819	293	401	422
23	48	81	e200	e240	296	495	305	882	789	260	402	785
24	51	83	e210	e245	301	530	220	863	631	241	391	1240
25	53	84	e220	e260	271	578	175	732	500	294	385	1750
26 27 28 29 30 31	56 71 60 61 62 78	85 87 88 87 e88	e230 e230 e240 e255 e260 e265	e255 e250 e250 e250 e265 e280	279 268 294 	555 484 457 443 430 409	182 188 179 166 145	705 655 514 543 550 580	422 454 563 600 674	354 321 309 324 303 337	387 375 410 364 331 326	1880 1700 1490 1260 1070
TOTAL	1472	2609	5670	7815	7628	12509	6015	13222	29884	11612	14366	19155
MEAN	47.5	87.0	183	252	272	404	201	427	996	375	463	639
MAX	78	132	265	310	301	578	364	990	2010	698	672	1880
MIN	35	75	65	175	240	274	145	150	422	232	271	285
AC-FT	2920	5170	11250	15500	15130	24810	11930	26230	59270	23030	28490	37990
MEAN	132	228	222	199	234	305	289	454	664	258	110	103
MAX	1113	1017	687	351	421	697	1497	3407	2746	1620	561	639
(WY)	1942	1942	1942	1987	1986	1987	1987	1987	1948	1995	1957	1997
MIN	7.45	30.1	36.4	36.5	62.3	38.2	28.0	7.39	4.41	1.42	1.68	.85
(WY)	1957	1964	1957	1957	1957	1957	1957	1963	1964	1940	1940	1956
SUMMARY	STATISTI	CS	FOR	1996 CALE	NDAR YEAR	I	FOR 1997 WA	ATER YEAR		WATER YE	ARS 1936	- 1997
LOWEST HIGHEST LOWEST ANNUAL		AN AN N MINIMUM		47618 130 443 a 10 12	Feb 23 Aug 1 Jul 27		2010 e,b ₃₅ 39 2040	Jun 5 Oct 1 Oct 1 Jun 5		268 950 49.0 5380 .40 .69	Jul Sep	1987 1964 22 1949 4 1940 11 1956 21 1949
INSTANT ANNUAL 10 PERC 50 PERC	ANEOUS PE RUNOFF (A ENT EXCEE ENT EXCEE	AK STAGE AC-FT) DS DS		94450 340 81 25			6.58 261700 714 277 77			9.50 194000 498 165 25		21 1949

e-Estimated.

a-Also occurred Aug 2. b-Also occurred Oct 2.

c-From rating curve extended above 3600 ft³/s.

#### 08244500 PLATORO RESERVOIR AT PLATORO, CO

LOCATION.--Lat 37°21'07", long 106°32'38", Conejos County, Hydrologic Unit 13010005, on right bank in valvehouse, 400 ft downstream from Platoro Dam on Conejos River and 0.7 mi west of Platoro.

DRAINAGE AREA.--40 mi², approximately.

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

REVISED RECORDS .-- WDR CO-85-1: 1984.

GAGE.--Nonrecording gage. Datum of gage is 9,911.5 ft above sea level, (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations above sea level. Prior to June 9, 1955, nonrecording gage at present site and datum. June 9, 1955 to Sept. 30, 1959, water-stage recorder in gate chamber at dam for elevations above 9,921.0 ft, at same datum.

REMARKS.--Reservoir is formed by an earth and rockfill dam and dikes. Dam completed Dec. 9, 1951; storage began Nov. 7, 1951. Capacity of reservoir (based on revised capacity table put in use Jan. 1, 1975), 59,570 acre-ft, between elevations 9,911.5 ft, sill of trashrack at outlet, and 10,034.0 ft, crest of spillway. No dead storage. Reservoir is used for irrigation and flood control. Figures given are usable contents.

COOPERATION .-- Records provided by State of Colorado, Division of Water Resources.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 61,420 acre-ft, June 9, 11, 1958, elevation, 10,035.5 ft; no contents for long periods in 1952-56.

EXTREMES FOR CURRENT YEAR.--Maximum contents, about 46,730 acre-ft, June 23, elevation, 10,019.94 ft; minimum contents, about 21,120 acre-ft, Oct. 27, elevation, 9,984.87 ft.

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

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.          Oct. 31.          Nov. 30.          Dec. 31.	9,990.4 9,984.9 9,985.7 9,986.1	24,530 21,140 21,590 21,850	-3,390 +450 +260
CAL YR 1996	-	-	-23,480
Jan. 31. Feb. 28. Mar. 31. Apr. 30. May 31. June 30. July 31. Aug. 31. Sept. 30.	9,986.7 9,987.1 9,988.2 9,989.0 9,995.8 10,018.7 10,009.6 10,005.0 10,001.7	22,200 22,470 23,160 23,660 28,020 45,680 38,150 34,640 32,210	+350 +270 +690 +500 +4,360 +17,660 -7,530 -3,510 -2,430
WTR YR 1997	-	_	+7,680

## 08245000 CONEJOS RIVER BELOW PLATORO RESERVOIR, CO

LOCATION.--Lat 37°21'18", long 106°32'37", Conejos County, Hydrologic Unit 13010005, on left bank 1,100 ft downstream from valvehouse for Platoro Reservoir and 0.7 mi northwest of Platoro.

DRAINAGE AREA.--40 mi², approximately.

464

PERIOD OF RECORD .-- May 1952 to current year.

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Datum of gage is 9,866.60 ft above sea level, (levels by U.S. Bureau of Reclamation).

REMARKS .-- Records good except for estimated daily discharges, which are fair. No diversion upstream from station. Flow completely regulated by Platoro Reservoir (station 08244500).

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 5, 1911, is the greatest since at least 1854, from information by local residents.

			DISC	HARGE, CUB	IC FEET PER		, WATER YEA Y MEAN VAL		R 1996 TO S	SEPTEMBER 1	997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	66 66 69 78 92	e7.0 e7.0 e7.0 e7.0	e7.0 e7.0 e7.0 e7.0	e7.1 e7.1 e7.1 e7.1	e7.3 e7.3 e7.4 e7.4	e7.6 e7.6 e7.6 e7.6	e7.9 e7.9 e7.9 e7.9 e7.9	52 56 61 63 64	312 120 164 243 245	563 562 562 445 271	189 144 139 130 157	141 122 110 134 131
6 7 8 9 10	95 96 96 96 81	e7.0 e7.0 e7.0 e7.0	e7.0 e7.0 e7.0 e7.0	e7.1 e7.1 e7.1 e7.1	e7.4 e7.4 e7.4 e7.4	e7.6 e7.6 e7.7 e7.7	e7.9 e7.9 e7.9 e15 21	77 136 168 167 167	245 247 248 260 268	246 218 214 212 277	206 197 179 178 158	118 118 106 100 115
11 12 13 14 15	70 64 62 46 44	e7.0 e7.0 e7.0 e7.0 e7.0	e7.0 e7.0 e7.0 e7.0 e7.0	e7.1 e7.2 e7.2 e7.2 e7.2	e7.4 e7.4 e7.4 e7.5 e7.5	e7.7 e7.7 e7.7 e7.7	21 21 21 18 21	167 167 167 167 224	184 112 219 347 278	321 293 273 295 303	182 204 203 160 131	123 114 104 90 82
16 17 18 19 20	61 68 51 31 32	e7.0 e7.0 e7.0 e7.0 e7.0	e7.0 e7.0 e7.0 e7.0 e7.0	e7.2 e7.2 e7.2 e7.2 e7.2	e7.5 e7.5 e7.5 e7.5 e7.5	e7.7 e7.7 e7.7 e7.8 e7.8	35 45 45 44 45	262 299 318 333 356	242 242 243 244 304	320 392 436 390 373	148 112 102 105 92	74 68 67 60 55
21 22 23 24 25	35 38 50 63 92	e7.0 e7.0 e7.0 e7.0 e7.0	e7.0 e7.0 e7.0 e7.0	e7.2 e7.2 e7.3 e7.3	e7.5 e7.5 e7.5 e7.5 e7.6	e7.8 e7.8 e7.8 e7.8	46 49 84 100 69	439 572 597 334 225	492 613 644 633 646	382 369 296 226 200	83 92 94 94 110	72 141 197 262 329
26 27 28 29 30 31	140 98 48 18 8.1 e8.0	e7.0 e7.0 e7.0 e7.0 e7.0	e7.0 e7.0 e7.0 e7.0 e7.0	e7.3 e7.3 e7.3 e7.3 e7.3	e7.6 e7.6 e7.6 	e7.8 e7.8 e7.8 e7.9 e7.9	51 53 54 53 53	141 68 59 89 166 302	670 603 564 561 562	154 150 129 123 130 159	124 182 194 169 135 122	251 200 101 47 50
TOTAL MEAN MAX MIN AC-FT	1962.1 63.3 140 8.0 3890	210.0 7.00 7.0 7.0 7.0 417	217.0 7.00 7.0 7.0 7.0 430	223.0 7.19 7.3 7.1 442	208.9 7.46 7.6 7.3 414	239.5 7.73 7.9 7.6 475	1027.2 34.2 100 7.9 2040	6463 208 597 52 12820	10755 359 670 112 21330	9284 299 563 123 18410	4515 146 206 83 8960	3682 123 329 47 7300
							, BY WATER					
MEAN MAX (WY) MIN (WY)	38.4 158 1958 1.92 1957	64.9 406 1966 2.00 1957	11.0 50.0 1986 2.00 1957	11.4 50.0 1986 3.20 1991	12.2 102 1983 3.00 1957	10.6 27.5 1986 3.00 1957	53.6 252 1995 3.00 1957	242 492 1974 16.9 1958	337 609 1982 87.0 1977	219 610 1952 24.9 1972	91.5 429 1952 9.19 1972	44.6 164 1982 3.34 1956
SUMMAR	Y STATIST	ICS	FOR	1996 CALEN	DAR YEAR	I	FOR 1997 WA	TER YEAR		WATER YEA	ARS 1952	- 1997
LOWEST HIGHES LOWEST ANNUAL	MEAN T ANNUAL M ANNUAL M T DAILY M DAILY ME SEVEN-DA	EAN EAN AN Y MINIMUM		34220.1 93.5 526 e,a7.0 7.0	May 22 Nov 1 Nov 1		38786.7 106 670 e,a 7.0	Jun 26 Nov 1 Nov 1		93.8 137 44.3 1150 b.00 .16	Oct 1 Oct 1	1986 1977 28 1957 16 1955 15 1955
INSTAN ANNUAL 10 PER 50 PER	TANEOUS P TANEOUS P RUNOFF ( CENT EXCE CENT EXCE CENT EXCE	EAK STAGE AC-FT) EDS EDS		67880 274 45 7.0			684 3.21 76930 297 48 7.0	Jun 26 Jun 26		1160 C4.02 67950 324 17 6.0		1 1957 1 1957

a-Also occurred Nov 2 to Dec 31. b-Also occurred Oct 17-20, 1955. c-Maximum gage height, 4.29 ft, Jun 15, 1958.

#### 08246500 CONEJOS RIVER NEAR MOGOTE, CO

LOCATION.--Lat 37°03'14", long 106°11'13", in SE¹/4SE¹/4 sec.34, T.33 N., R.7 E., Conejos County, Hydrologic Unit 13010005, on left bank 75 ft downstream from bridge on State Highway 174, 0.4 mi downstream from Fox Creek, 5.3 mi west of Mogote, and 10 mi west of Antonito.

DRAINAGE AREA.--282 mi².

PERIOD OF RECORD.--April 1903 to October 1905, October 1911 to current year. Monthly discharge only for some periods, published in WSP 1312. Records for March 1900 at site 5.5 mi upstream and May 1905 to September 1911 (some missing periods most years) at site 3.2 mi upstream not equivalent to present site due to inflow.

REVISED RECORDS.--WSP 898: 1911(M). WSP 1312: 1903-5, 1913. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,273.69 ft above sea level, Colorado State Highway datum. Apr. 17, 1903 to Oct. 31, 1905, nonrecording gage 400 ft downstream, at different datum. Oct. 5, 1911 to early 1915, nonrecording gage, and from early 1915 to Oct. 1, 1988, water-stage recorder at site 100 ft upstream, at datum 2.15 ft, lower. Since Oct. 1, 1988, at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 500 acres of hay meadows upstream from station. Some regulation by Platoro Reservoir (station 08244500).

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

a-Also occurred Dec 18.

b-Present site and datum, from rating curve extended above 3100  $\mathrm{ft}^3/\mathrm{s}$ .

c-From floodmarks.

#### 08247500 SAN ANTONIO RIVER AT ORTIZ, CO

LOCATION.--Lat 36°59'35", long 106°02'17", in NE¹/₄SE¹/₄ sec.24, T.32 N., R.8 E., Rio Arriba County, New Mexico, Hydrologic Unit 13010005, on left bank 800 ft south of Colorado-New Mexico State line, 0.4 mi southeast of Ortiz, and 0.4 mi upstream from Los Pinos River.

DRAINAGE AREA.--110 mi², approximately.

PERIOD OF RECORD.--April 1919 to October 1920, October 1924 to current year (no winter records prior to 1941). Monthly discharge only for some periods, published in WSP 1312.

REVISED RECORDS.--WSP 1732: 1951. WSP 1923: 1927 (monthly runoff).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,970 ft above sea level, from topographic map. Prior to Apr. 7, 1926, nonrecording gage at various locations near present site, at different datums. Apr. 7, 1926 to June 24, 1954, waterstage recorder at site 200 ft downstream, at present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. A few small diversions upstream from station for

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 5, 1911, is the greatest since at least 1854, from information by local

			DISC	HARGE, CUB	IC FEET PI		, WATER YEA Y MEAN VAL		R 1996 TO S	EPTEMBER	1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.3 1.5 1.8 1.8	7.2 7.3 4.9 4.7 4.5	e4.2 e4.0 e3.8 e4.0 e4.2	e4.2 e4.2 e4.3 e3.9 e3.9	e4.3 e4.0 e3.7 e3.6 e3.8	e3.9 e4.3 e4.7 e4.5 e4.3	71 59 62 66 47	147 112 96 139 244	52 47 42 37 33	1.7 1.5 1.0 .69 .47	2.3 1.8 1.9 1.9	5.3 3.6 2.6 2.2 2.4
6 7 8 9 10	1.9 2.8 2.6 2.2 2.0	4.3 e4.4 e3.8 4.6 6.7	e4.4 e4.2 e4.6 e5.0 e6.0	e3.0 e2.6 e2.6 e2.9 e3.2	e3.5 e3.2 e2.9 e2.8 e3.2	e4.7 e8.6 e14 e26 e40	e38 37 38 37 33	312 348 338 317 258	30 31 37 39 32	.44 .11 .26 .15	2.3 2.6 6.0 8.4 5.9	2.4 2.4 2.0 1.8 1.6
11 12 13 14 15	2.0 1.8 1.5 1.6	9.0 8.9 5.6 4.6 4.8	e5.0 e4.6 e4.6 e4.2 e3.8	e3.4 e3.8 e3.6 e3.3 e2.8	e3.4 e3.5 e3.5 e3.3 e3.4	e50 e56 e58 e54 e74	29 24 27 26 25	285 266 321 306 281	29 23 20 18 16	.88 .78 .61 .35	4.2 3.6 2.3 1.7	1.9 1.9 1.8 1.8
16 17 18 19 20	1.7 1.8 1.9 2.0 2.0	8.6 7.6 3.5 5.4 7.5	e3.4 e2.4 e2.2 e2.6 e3.0	e2.7 e2.8 e3.3 e3.9 e3.7	e3.5 e3.7 e3.6 e3.7 e3.8	137 168 138 144 181	34 56 86 117 148	239 212 208 194 231	15 16 13 11 9.0	.00	.76 .54 .40 .41	1.3 1.0 1.7 1.5
21 22 23 24 25	2.9 2.8 2.1 3.1 3.1	8.1 7.8 8.1 7.4 e6.3	e3.4 e3.6 e3.2 e2.8 e3.0	e3.8 e3.4 e4.0 e3.4 e3.3	e3.5 e3.2 e3.4 e3.7 e3.6	198 163 137 100 64	183 230 195 159 120	171 168 138 119 131	7.4 6.3 5.7 5.6 4.4	1.9 4.2 5.7 3.4 3.2	2.0 1.5 1.2 2.4 1.8	6.0 13 6.5 4.1 3.0
26 27 28 29 30 31	4.2 2.7 3.9 6.9 5.6 4.6	6.2 5.8 e5.0 e4.8 e5.0	e3.6 e4.2 e4.0 e3.8 e4.0 e4.4	e4.2 e3.8 e3.5 e3.6 e3.5 e3.9	e3.8 e4.0 e4.0	49 52 60 68 60 62	99 85 111 144 159	106 83 71 64 59 57	3.9 3.8 3.6 3.1 2.1	1.8 1.3 1.5 2.1 2.4 2.4	4.0 6.1 3.3 2.0 2.1 4.5	2.5 2.4 2.1 2.1 2.1
TOTAL MEAN MAX MIN AC-FT	79.3 2.56 6.9 1.3 157	182.4 6.08 9.0 3.5 362	120.2 3.88 6.0 2.2 238	108.5 3.50 4.3 2.6 215	99.6 3.56 4.3 2.8 198	2188.0 70.6 198 3.9 4340	2545 84.8 230 24 5050	6021 194 348 57 11940	595.9 19.9 52 2.1 1180	39.39 1.27 5.7 .00 78	82.41 2.66 8.4 .40 163	85.7 2.86 13 1.0 170
STATIST	ICS OF M	ONTHLY MEA	N DATA F	OR WATER Y	EARS 194	0 - 1997	, BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	2.90 12.0 1987 .000 1952	3.89 13.9 1987 1.04 1956	2.68 8.12 1967 .48 1977	2.31 6.00 1965 .000 1977	3.69 13.0 1962 .25 1990	16.9 70.6 1997 2.50 1948	104 302 1962 22.2 1972	151 508 1941 4.05 1977	17.6 108 1957 .027 1977	2.03 12.0 1957 .000 1940	2.93 17.7 1957 .000 1951	1.31 4.42 1986 .000 1951
SUMMARY	STATIST	ICS	FOR	1996 CALEN	DAR YEAR	. I	FOR 1997 WA	TER YEAR		WATER YE	EARS 1940	- 1997
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ANNUAL M DAILY ME SEVEN-DA ANEOUS P	EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		3169.31 8.66 108 a.00 .00 6290 29 3.0			12147.40 33.3 348 b.00 .07 442 3.82 24090 133 4.0 1.5	May 7 Jul 16 Jul 14 May 7 May 7		26.2 61.8 3.35 1050 C.00 d.00 f.1750 5.38 19000 66 3.1	May 1  Jun 1  Jun 2  Apr 1	1952 1977 13 1941 24 1940 24 1940 15 1937 15 1937
- 5												

e-Estimated

a-Also occurred Jun 25 to Jul 2, and Jul 29 to Aug 25. b-Also occurred Jul 17-20. c-Also occurred Jun 25 to Aug 7, and Aug 19-23, 1940, and some days during each year 1993-1997.

d-Also occurred for periods during each year, 1993-1996. f-From rating curve extended above 1100  ${\rm ft}^3/{\rm s}$ . Also is peak flow for period of record.

#### 08248000 LOS PINOS RIVER NEAR ORTIZ, CO

LOCATION.--Lat 36°58'56", long 106°04'23", on line between secs.26, and 27, T.32 N., R.8 E., Rio Arriba County, New Mexico, Hydrologic Unit 13010005, on left bank 0.9 mi south of Colorado-New Mexico State line, 2.1 mi southwest of Ortiz, and 2.9 mi upstream from mouth.

DRAINAGE AREA.--167 mi².

PERIOD OF RECORD.--January 1915 to December 1920, October 1924 to current year. Monthly discharge only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,040 ft above sea level, from topographic map. Prior to Apr. 15, 1955, at site 350 ft upstream at datum 2.52 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 5, 1911, is the greatest since at least 1854, from information by local residents.

TOSIN	acires.		DISCI	HARGE, CUE	BIC FEET PER		WATER YEA Y MEAN VAL		R 1996 TO S	SEPTEMBER 19	<del>9</del> 97	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	15 13 13 15 18	23 21 21 20 19	e16 e16 e15 e17 e17	e18 e17 e19 e17 e17	e21 e19 e17 e17 e19	e20 e23 e26 e25 e24	140 124 120 124 90	315 261 246 347 531	845 871 798 779 764	132 116 103 95 89	47 44 55 56 49	50 39 33 36 30
6 7 8 9 10	16 15 14 13 14	19 18 21 22 20	e20 e18 e20 e22 e23	e15 e14 e14 e15 e16	e17 e16 e15 e15 e17	e26 e29 e32 e36 e42	e84 85 80 80 72	667 749 824 804 731	648 574 621 493 471	83 78 73 69 68	50 98 115 102 69	28 26 25 25 28
11 12 13 14 15	14 13 13 13	20 19 19 19	e21 e19 e19 e18 e17	e16 e17 e17 e16 e15	e17 e18 e18 e17 e18	e45 e47 e48 e46 52	68 62 64 60 58	803 859 1020 1090 1130	459 455 435 402 383	64 59 53 49 45	83 59 50 44 41	36 29 26 25 23
16 17 18 19 20	12 14 14 13 16	16 e14 e20 24 23	e17 e14 e13 e14 e16	e15 e15 e16 e17 e17	e20 e22 e21 e22 e21	51 55 55 60 76	69 92 134 176 243	1090 1040 1100 1100 1030	397 349 317 340 333	43 42 40 43 49	37 34 38 44 35	26 24 22 21 24
21 22 23 24 25	17 15 17 17	23 24 24 21 e19	e18 e20 e18 e17 e19	e17 e16 e18 e16 e16	e18 e16 e18 e19 e18	93 109 123 128 110	329 386 373 318 244	979 928 872 838 767	318 291 271 251 224	47 57 56 48 39	31 30 41 38 33	120 122 70 53 45
26 27 28 29 30 31	14 14 19 20 16 23	e19 e18 e17 e18 e18	e21 e22 e21 e20 e19 e20	e19 e18 e17 e18 e18 e19	e19 e20 e20 	99 103 113 127 124 137	208 203 257 307 315	699 628 628 636 688 773	199 189 168 154 143	35 36 56 55 45 49	39 36 29 26 28 40	41 38 35 32 30
TOTAL MEAN MAX MIN AC-FT	471 15.2 23 12 934	597 19.9 24 14 1180	567 18.3 23 13 1120	515 16.6 19 14 1020	515 18.4 22 15 1020 YEARS 1915	2084 67.2 137 20 4130	4965 166 386 58 9850	24173 780 1130 246 47950	12942 431 871 143 25670	1916 61.8 132 35 3800	1521 49.1 115 26 3020	1162 38.7 122 21 2300
MEAN MAX (WY) MIN (WY)	27.4 109 1987 10.1 1957	21.7 70.1 1987 11.1 1957	16.2 34.4 1987 5.00 1918	14.5 26.0 1987 5.00 1918	17.0 30.0 1962 7.50 1964	34.2 84.7 1971 13.9 1977	228 610 1936 65.9 1968	618 1341 1952 96.8 1977	337 1022 1957 25.2 1977	74.7 258 1957 13.2 1934	35.5 112 1929 11.9	25.0 101 1927 7.53 1956
ANNUAL ANNUAL HIGHEST		EAN	FOR I	1996 CALEN 22597 61.7	NDAR YEAR	F	OR 1997 WA 51428 141	ATER YEAR		WATER YEA 121 230 28.7	ARS 1915	- 1997 1952 1977
HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	ANNOAL ME DAILY MEA SEVEN-DAY ANEOUS PE ANEOUS PE RUNOFF (A ENT EXCEE ENT EXCEE	AN N MINIMUM AK FLOW AK STAGE C-FT) DS DS		589 a 12 13 44820 159 21 14	Apr 27 Jan 18 Jan 21		1130 12 13 1340 5.78 102000 480 33 16	May 15 Oct 16 Oct 10 May 14 May 14		2410 b4.0 4.4 3160 d5.77 87750 390 25 12	Dec 1 Dec 1 May 1	1977 13 1941 11 1989 11 1989 12 1941 12 1941

e-Estimated.
a-Also occurred Jan 21, 23-24, 26-27, Feb 3, Aug 12-15, 20-21, Sep 10-11, and Oct 16.
b-Minimum observed, 4.0 ft³/s, Dec 17, 1945 (discharge measurement); minimum daily discharge for period of record, also occurred Dec 12-14, 17, 22, 30-31, 1989, and Jan 4-6, 1990, but may have been less during periods of no gage-height record.
c-Site and datum then in use, from rating curve extended above 1600 ft³/s.
d-Maximum gage height, 6.19 ft, May 22, 1993, present site and datum.

#### 08249000 CONEJOS RIVER NEAR LASAUSES, CO

LOCATION.--Lat 37°18'01", long 105°44'47", in SW1/4SW1/4 sec.2, and SE1/4NE1/4 sec.10 (two channels), T.35 N., R.11 E., Conejos County, Hydrologic Unit 13010005, on left bank of main channel 125 ft downstream from bridge on State Highway 158 and on left bank of secondary channel 230 ft upstream from bridge on State Highway 158, 1.0 mi upstream from mouth, 2.1 mi north of Lasauses, and 13 mi southeast of Alamosa.

DRAINAGE AREA.--887 mi².

PERIOD OF RECORD.--March 1921 to current year. Monthly discharge only for some periods, published in WSP 1312. Prior to October 1, 1966, published as "near La Sauses." Water-quality data available, April 1993 to September 1995.

REVISED RECORDS.--WSP 1312: 1934(M).

GAGE.--Two water-stage recorders with satellite telemetry. Datum of gage on main (north) channel is 7,495.02 ft above sea level, and on secondary (south) channel is 7,496.89 ft above sea level (levels by U.S. Bureau of Reclamation). Main channel: See WSP 1732 for history of changes prior to Oct. 1, 1937. South channel: Prior to Oct. 23, 1934, at bridge 230 ft downstream at datum 0.56 ft lower; Oct. 23, 1934 to May 3, 1936, at site 250 ft downstream, and May 4, 1936 to Oct. 13, 1965, at site 280 ft downstream, at datum 1.00 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 75,000 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.--Flood of Oct. 5, 1911, is the greatest since at least 1854, from information by local residents.

DICCHARGE CURIC EET DER CECOND WATER VEAR OCTORER 1007 TO CERTEMBER 1007

			DISCI	HARGE, CUBI	C FEET PER		, WATER YE Y MEAN VA		R 1996 TO S	SEPTEMBER 19	997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.77 .55 .50 .48	29 26 26 23 23	e28 e28 e29 e32 e34	e68 e68 e82 e76 e77	e87 e90 e90 e84 e85	e93 e89 e87 e93 e93	347 357 324 301 275	295 289 221 196 250	1270 1490 1580 1370 1290	429 435 353 278 222	69 56 44 36 54	103 94 77 59 69
6 7 8 9 10	.46 .52 .44 1.0 2.4	25 24 23 23 24	e40 e40 e43 e52 72	e64 e51 e53 e64 e72	e90 e88 e77 e76 e76	e93 e98 e102 e106 e111	204 180 153 112 94	332 498 633 768 1000	1310 1190 1080 1240 1070	153 141 142 e81 e53	52 77 220 203 190	87 78 80 47 34
11 12 13 14 15	1.1 .31 .18 .07	24 24 24 25 24	75 e70 e63 e56 e42	e68 e74 e76 e76 e63	e78 e80 e90 e77 e80	e129 e163 e182 e193 e192	76 69 57 51 55	789 877 916 1060 1070	978 902 824 761 777	135 214 126 111 98	174 139 117 73 42	31 40 41 28 17
16 17 18 19 20	1.0 .08 .50 1.2 1.8	25 24 25 25 26	e40 e38 e35 e40 e46	e59 e59 e63 e78 e78	e81 e91 e93 100	e216 e289 320 298 308	49 39 39 80 132	1130 1200 1170 1240 1340	836 855 709 634 634	82 73 77 98 97	40 37 64 58 54	17 16 21 22 23
21 22 23 24 25	4.0 1.8 3.8 8.4	26 26 27 28 29	e52 e58 e59 e57 e59	e73 e68 e71 e69 e72	e99 89 100 99 99	387 451 468 455 414	261 409 534 508 388	1360 1320 1340 1330 1220	651 678 712 720 636	77 82 117 76 50	45 42 51 44 38	33 362 419 321 311
26 27 28 29 30 31	14 18 20 39 39 28	29 29 29 29 e28	e59 e64 e65 e65 e67 e75	e76 e78 e79 e81 e80 e82	94 95 100 	345 321 330 331 345 336	290 210 185 232 277	905 644 536 550 659 896	563 560 543 549 506	38 34 34 47 40 45	38 57 45 63 54 60	368 322 247 203 158
TOTAL MEAN MAX MIN AC-FT	202.46 6.53 39 .07 402	772 25.7 29 23 1530	1583 51.1 75 28 3140	2198 70.9 82 51 4360	2490 88.9 102 76 4940	7438 240 468 87 14750	6288 210 534 39 12470	26034 840 1360 196 51640	26918 897 1580 506 53390	4038 130 435 34 8010	2336 75.4 220 36 4630	3728 124 419 16 7390
MEAN MAX (WY) MIN (WY)	48.0 307 1942 .11 1978	84.1 424 1976 8.92 1978	59.3 140 1986 16.7 1978	OR WATER YE 61.5 146 1986 24.0 1964	78.5 186 1983 29.6 1964	104 261 1989 24.9 1957	254 1177 1924 1.49 1990	727 2642 1924 1.39 1972	576 1850 1935 .13 1977	148 1132 1957 .027 1972	50.3 413 1952 .000 1934	40.1 425 1927 .000 1976
ANNUAL ANNUAL HIGHES		MEAN	FOR I	1996 CALEND 14560.15 39.8	AR YEAR	F	OR 1997 W 84025.4 230			WATER YEA 186 451 17.2	RS 1921	- 1997 1941 1977
HIGHES LOWEST ANNUAL INSTAN ANNUAL 10 PER 50 PER 90 PER	T DAILY M DAILY ME	EAN AN Y MINIMUM EAK FLOW AC-FT) EDS EDS		200 a.00 .00 28880 101 26 .00	Apr 28 Aug 11 Aug 11		1580 .0 .4 Not d 166700 736 78 23			3820 b.00 c.00 d3890 134600 538 56 1.5	Jun 2 Jul 2	15 1941 27 1934 21 1934 15 1941

e-Estimated.

a-Also occurred Aug 12 to Sep 21, and Sep 24-27. b-Also occurred Jun 28 to Jul 1, Jul 3, and Jul 21 to Sep 8, 1934, and some days during Aug 1994, Aug and Sep 1996. c-Also occurred starting Aug 11, 1996. d-Gage height not determined.

#### 08251500 RIO GRANDE NEAR LOBATOS, CO

LOCATION.--Lat 37°04'43", long 105°45'23", in NE1/4NW1/4 sec.27, T.33 N., R.11 E., Conejos County, Hydrologic Unit 13010002, on right bank at highway bridge, 5.7 mi north of Colorado-New Mexico State line, 8 mi downstream from Culebra Creek, 11 mi east of Lobatos, and 14 mi east of Antonito.

DRAINAGE AREA.--7,700 mi², approximately, includes 2,940 mi² in closed basin in northern part of San Luis Valley, CO.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1899 to current year. Monthly discharge only for some periods, published in WSP 1312. Published as "at Cenicero" 1899-1901, and as "near Cenicero" 1902-4. Statistical summary computed for 1931 to current year.

REVISED RECORDS.--WSP 1312: 1919 (monthly runoff). WSP 210: Drainage area. WDR CO-78-1: 1976.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,427.63 ft above sea level. Prior to 1910, nonrecording gages at same site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, ground-water withdrawals and diversion for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey. EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1828, that of June 8, 1905.

			DISCHA	ARGE, CUBIO	C FEET PER SE		VATER YEA MEAN VALI		1996 TO SE	PTEMBER 199	7	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	38 38 39 41 53	109 141 165 150 141	e95 e115 e125 e135 e145	e340 e355 e380 e360 e330	e360 e365 e380 e335 e345	374 355 368 370 369	733 670 591 550 521	444 448 405 351 371	1840 2400 2870 3220 3470	1170 1150 1110 981 822	424 470 355 302 354	443 496 522 524 490
6 7 8 9 10	49 44 44 44	133 121 108 102 99	e185 e205 e215 e255 e290	e250 e260 e290 e300 e315	e365 e345 e340 e330 e325	361 356 384 399 412	448 388 375 320 309	401 542 795 936 1170	3460 3150 2920 2820 2690	608 748 749 591 460	385 421 656 850 871	494 492 476 449 420
11 12 13 14 15	51 53 47 47 46	97 100 103 102 103	e300 e300 e260 e230 e190	e330 e340 e340 e340 e320	e335 e345 e355 e330 e345	430 463 524 565 587	285 278 267 244 237	971 1020 985 1170 1190	2270 2070 1890 1780 1660	446 558 514 446 404	864 856 825 730 727	413 427 445 409 376
16 17 18 19 20	46 45 42 48 50	105 e100 e95 96 101	e160 e145 e105 e235 e260	e310 e310 e310 e320 e320	e355 e390 377 379 380	614 685 763 777 751	239 227 218 243 299	1390 1610 1730 1880 2160	1670 1670 e1640 1510 1480	364 330 308 350 386	649 591 556 543 513	357 334 342 372 354
21 22 23 24 25	48 45 59 54 58	101 102 102 105 108	e240 e240 e240 e260 e265	e330 e320 e315 e310 e315	381 350 380 369 388	805 913 963 982 1010	383 484 756 803 608	2450 2140 2230 2330 2180	1620 1570 1590 1480 1240	369 359 375 339 299	489 448 448 454 432	382 567 1010 1330 1740
26 27 28 29 30 31	e67 e80 e85 e85 97 101	109 e112 e115 e120 e125	e280 e290 e295 e305 e320 e325	e330 e330 e330 e330 e330 e345	368 355 369 	976 858 804 782 775 761	499 436 380 390 403	1800 1520 1170 1110 1210 1370	1040 975 1120 1150 1210	360 339 318 336 349 344	432 436 451 458 421 405	2120 2030 1730 1480 1200
TOTAL MEAN MAX MIN AC-FT	1688 54.5 101 38 3350	3370 112 165 95 6680	7010 226 325 95 13900	10005 323 380 250 19840	10041 359 390 325 19920	19536 630 1010 355 38750	12584 419 803 218 24960	39479 1274 2450 351 78310	59475 1983 3470 975 118000	16282 525 1170 299 32300	16816 542 871 302 33350	22224 741 2120 334 44080
MEAN MAX (WY) MIN (WY)	173 1401 1942 12.9 1957	311 1199 1942 59.6 1955	284 763 1942 61.7 1964	261 521 1986 75.7 1957	YEARS 1931 313 595 1986 102 1957	419 884 1987 66.0 1957	, BY WATES 533 2326 1985 32.3 1935	1130 4958 1987 42.9 1963	1254 4470 1941 19.8 1977	445 2754 1995 1.28 1951	160 842 1957 3.21 1956	129 779 1982 1.91 1956
SUMMARY	STATIST	ICS	FOR	1996 CALE	NDAR YEAR	I	FOR 1997 T	WATER YEAR	2	WATER YE	ARS 1931	- 1997
LOWEST .	MEAN ANNUAL M ANNUAL M	EAN		65657 179	Ech 00		218510 599	Tun f		a451 1264 70.9 b9110	T	1987 1964
LOWEST : ANNUAL : INSTANT : INSTANT : ANNUAL : 10 PERC: 50 PERC:	ANEOUS PE	AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		130200 438 115 30	Feb 23 Jul 31 Jul 29		3470 d 38 43 3610 4. 433400 1510 371 100	Jun 5 Oct 1 Oct 1 Jun 5 72 Jun 5	L - 5	9110 f.00 911600 8.76 326600 970 242 40	Jul Jul : May	22 1949 16 1950 16 1950 8 1952 8 1952

e-Estimated

a-Average discharge for 31 years (water years 1900-30), 846 ft³/s; 612900 acre-ft/yr, includes period of extensive development for irrigation.

b-Maximum daily discharge for period of record, 13100 ft³/s, Jun 8, 1905.

c-Also occurred Aug 1-4.

d-Also occurred Oct 2.

f-No flow at times in 1950-51, 1956.

g-Maximum discharge and stage for period of record, 13200 ft³/s, Jun 8, 1905, gage height, 9.1 ft, from rating curve extended above 8000 ft³/s.

# 08251500 RIO GRANDE NEAR LOBATOS, CO--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1969 to September 1993 (also see REMARKS). February 1996 to current year.

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: October 1975 to September 1981. WATER TEMPERATURE: October 1975 to September 1981.

REMARKS.--Periodic water-quality data available Sept. 1969 to Sept. 1993 under the National Stream-Quality Accounting Network (NASQAN), and Apr. 1993 to Sept. 1996 under the Rio Grande National Water-Quality Assessment Program, for this site.

#### EXTREMES FOR PERIOD OF RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 1,040 microsiemens, Sept. 17-18, 1977; minimum, 89 microsiemens, May 9, 1979. WATER TEMPERATURE: Maximum, 30.0°C, July 17, 1977; minimum, 0.0°C, many days.

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

				······································	DII I D. 111.1,	***************************************	III OCTOBE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Er TEMBER			
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)		TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA-a LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
OCT 29 MAR	1000	73	390	8.2	1.5	10.8	27	6.0	44	5.9	140	46
10 MAY	1030	402	266	8.4	5.0	11.5	25	4.6	21	4.0	94	29
22	1130	2150	135	7.7	12.0	7.8	13	2.5	8.7	2.6	48	12
JUN 16	1245	1690	248	3 7.7	16.0		22	4.4	18	3.8	69	42
JUL 22	1030	254	230	8.2	19.5	7.3	20	3.9	17	3.5	78	26
AUG 26	1050	418	190	8.1	20.5	7.6	18	3.4	13	3.2	70	18
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA DIS- SOLVEI (MG/L AS SIO2) (00955	AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT												
29 MAR	14	0.6	31	267	0.02	0.07	0.04	0.4	0.2	0.10	0.05	0.04
10 MAY	6.9	0.4	26	179	<0.01	0.19	<0.015	0.4	<0.2	0.08	0.01	0.03
22 JUN	2.2	0.15	21	105	<0.01	0.085	<0.015	0.54	<0.2	0.136	0.041	0.051
16 JUL	4.6	0.26	20	177	<0.01	0.064	<0.015	0.52	0.28	0.107	0.057	0.054
22 AUG	5.3	0.26	21	161	<0.01	<0.05	<0.015	0.48	<0.2	0.129	0.044	0.047
26	3.6	0.21	23	131	<0.01	<0.05	<0.015	0.39	<0.2	0.115	0.035	0.045
	DAT		M, MC S- I VED SC :/L (U AL) AS	DIS- D DLVED SO JG/L (UG S SB) AS		IUM, LIU S- DIS /ED SOI G/L (UG BA) AS	S- DI LVED SOI G/L (UG BE) AS	S- DIS LVED SOI G/L (UC CD) AS	JM, COBA S- DIS LVED SOLV G/L (UG CR) AS	S- DIS VED SOL G/L (UG CO) AS	S- LVED S/L CU)	
	OCT 29	3	.0	<1.0	2 37	7 <1	. <1	. 1	L <1	_ 2	2.0	
	MAR 10	-	-								-	
	MAY 22	11		:1.0	1 22	2 <1	<1	. <1	L <1	. 1	5	
	JUN 16	4	3	:1.0	2 30	) <1	. <1	. <1	L <1	. 1	9	
	JUL 22	2	3	:1.0	2 23	3 <1	. <1	. <1	L <1	. 1	1	
	AUG 26	-	-								-	

 $\hbox{a-Lab total dissolved alkalinity, determined by fixed-endpoint titration method.}\\$ 

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## 08251500 RIO GRANDE NEAR LOBATOS, CO--Continued

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

			MANGA-	MOLYB-		SELE-			URANIUM
	IRON,	LEAD,	NESE,	DENUM,	NICKEL,	NIUM,	SILVER,	ZINC,	NATURAL
	DIS-								
	SOLVED								
DATE	(UG/L								
	AS FE)	AS PB)	AS MN)	AS MO)	AS NI)	AS SE)	AS AG)	AS ZN)	AS U)
	(01046)	(01049)	(01056)	(01060)	(01065)	(01145)	(01075)	(01090)	(22703)
OCT									
OCT	2.0	. 1	-	4	. 1	. 4	. 1	1 0	2
29	39	<1	7	4	<1	<1	<1	1.0	3
MAR	2.0		2.0						
10	20		38						
MAY	7.1	. 1	2.1	<1	. 1	. 4	. 1		. 4
22	71	<1	31	< T	<1	<1	<1	1.1	<1
JUN			0.0	1 0	-		-	-	-
16	56	<1	20	1.0	<1	<1	<1	<1	<1
JUL	0.4			0 1	-		-	-	-
22	24	<1	11	2.1	<1	<1	<1	<1	<1
AUG									
26	21		5.9						

#### TRANSMOUNTAIN DIVERSIONS FROM COLORADO RIVER BASIN IN COLORADO

There are 24 tunnels or ditches, all of which are equipped with water-stage recorders and Parshall flumes or sharp-crested weirs. Records provided by Colorado Division of Water Resources. The locations and diversions of 7 selected diversions are given in the following list.

#### TO PLATTE RIVER BASIN

09013000 Alva B. Adams Tunnel diverts water from Grand Lake and Shadow Mountain Lake in NW¹/₄ sec.9, T.3 N., R.75 W., in Colorado River basin, to Lake Estes (Big Thompson River) in sec.30, T.5 N., R.72 W., in Platte River basin. For daily discharge, see elsewhere in this report.

#### DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09013000	6,480	22,930	17,150	21,800	22,100	11,340	15,870	32,510	29,430	29,060	8,790	9,150
Water	year 19	997, 226	,600									

 $\frac{09050590\ Harold\ D.\ Roberts\ Tunnel}{Ever}\ diverts\ water\ from\ Dillon\ Reservoir\ (Blue\ River)\ in\ sec. 18,\ T.5\ S.,\ R.77\ W.,\ in\ Blue\ River\ basin,\ to\ North\ Fork\ South\ Platte\ River\ (tributary\ to\ South\ Platte,\ River)\ in\ SW^{1/4}SW^{1/4}\ sec. 4,\ T.7\ S.,\ R.74\ W.,\ in\ Platte\ River\ basin.$  Figures include a small amount of ground-water inflow between Dillon\ Reservoir\ and\ east\ portal\ of\ tunnel.

#### DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09050590	8,710	5,100	5,880	5,860	3,480	468	6,730	1,170	0	15,160	464	3,750

Water year 1997, 56,770

#### TO ARKANSAS RIVER BASIN

 $\frac{09042000\ \ Hoosier\ Pass\ Tunnel}{Colorado\ River\ basin}\ diverts\ water\ from\ tributaries\ of\ Blue\ River\ in\ Colorado\ River\ basin\ to\ Montgomery\ Reservoir\ (Middle\ Fork\ South\ Platte\ River)\ in\ sec.14,\ T.8\ S.,\ R.78\ W.,\ in\ Platte\ River\ basin;\ this\ water\ is\ again\ diverted\ to\ South\ Catamount\ Creek\ (tributary\ to\ Sec.14,\ T.13\ S.,\ R.69\ W.,\ in\ the\ Arkansas\ River\ basin.\ Collection\ conduits\ extending\ from\ the\ right\ bank\ of\ Crystal\ Creek\ (tributary\ to\ Spruce\ Creek)\ in\ sec.14,\ T.7\ S.,\ R.78\ W.,\ right\ bank\ of\ Spruce\ Creek\ in\ sec.23,\ T.7\ S.,\ R.78\ W.,\ right\ bank\ of\ MocCullough\ Gulch\ in\ sec.26,\ T.7\ S.,\ R.78\ W.,\ right\ bank\ of\ Bemrose\ Creek\ in\ SW^1/4SW^1/4\ sec.6,\ T.8\ S.,\ R.77\ W.,\ and\ intercepting\ intermediate\ tributaries,\ transport\ diversions\ to\ north\ portal\ of\ the\ tunnel.\ REVISIONS\ (WATER\ YEARS).--WDR\ CO-86-1,\ WDR\ CO-86-2:\ 1984,\ 1985.$ 

### DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09042000	347	0	0	0	0	0	0	668	4,260	863	467	1,090
Water	year 19	97, 7,7	00									

09063700 Homestake Tunnel diverts water from Homestake Lake (Middle Fork Homestake Creek), in sec.17, T.8 S., R.81 W., in Eagle River basin, to Lake Fork in sec.9, T.9 S., R.81 W., in Arkansas River basin. Water is imported to Homestake Lake from tributaries of Homestake Creek by collection conduits that extend from right bank of French Creek in sec.28, T.7 S., R.81 W., and left bank of East Fork Homestake Creek in sec.9, T.8 S., R.81 W., and intercept intermediate tributaries.

## DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09063700	0	0	0	0	0	9,810	14,550	0	4,170	5,970	2,630	0
Water	year 19	97, 37,	130									

#### TRANSMOUNTAIN DIVERSIONS FROM COLORADO RIVER BASIN IN COLORADO--Continued

#### TO ARKANSAS RIVER BASIN--Continued

09073000 Twin Lakes Tunnel diverts water from tributaries of Roaring Fork River between headgates (in sec.21, T.11 S., R.83 W., and sec.2, T.11 S., R.83 W.), and west portal of Twin Lakes Tunnel (in sec.24, T.11 S., R.83 W.), in Colorado River basin, to North Fork Lake Creek in sec.22, T.11 S., R.82 W., in Arkansas River basin.

#### DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09073000	13	28	26	10	4.1	10	152	10,540	13,480	7,320	1,690	908
Water	year 19	97, 34,	190									

09077160 Charles H. Boustead Tunnel diverts water from the main stem and tributaries of Fryingpan River (tributary to Roaring Fork River), in Colorado River basin, to Lake Fork in sec.10, T.9 S., R.81 W., in Arkansas River basin. Water is transported to west portal of tunnel (at lat 39°14'44", long 106°31'47"), by a series of collection conduits extending between headgates on right bank of Sawyer Creek at lat 39°15'58", long 106°38'19" and right bank of Fryingpan River at lat 39°14'40", long 106°31'49", and intercepting intermediate tributaries.

#### DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09077160	113	133	154	154	146	184	186	12,890	48,150	13,570	3,560	146
Water	year 19	97, 79,	380									

09077500 <u>Busk-Ivanhoe Tunnel</u> diverts water from Ivanhoe Lake (Ivanhoe Creek), tributary to Fryingpan River in sec. 13, T.9 S., R.82 W., in Roaring Fork River basin, to Busk Creek (tributary to Lake Fork) in sec. 20, T.9 S., R.81 W., in Arkansas River basin.

#### DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09077500	110	82	55	48	39	43	78	453	3,200	324	103	107
Water	year 19	97, 4,6	40									

#### 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 PLAT	TE RIVER BASIN	TO ARK	ANSAS RIVER BASIN	TO RIO	GRANDE BASIN
09010000	Grand River Ditch	09061500	Columbine Ditch	09118200	Tarbell Ditch
09012000	Eureka Ditch	09062000	Ewing Ditch	09121000	Tabor Ditch
09021500	Berthoud Pass Ditch	09062500	Wurtz Ditch	09341000	Treasure Pass Ditch
09022500	Moffat Water Tunnel	09115000	Larkspur Ditch	09347000	Don LaFont Ditches
09046000	Boreas Pass Ditch				1 & 2
09047300	Vidler Tunnel			09348000	Williams Creek Squaw Pass Ditch
				09351000	Pine River- Weminuche Pass Ditch
				09351500	Weminuche Pass

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES 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

			Water y	rear 1997	maximum	Period o	of record	d maximum
Station name and number	Location and drainage area	Period of record	Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
	PLA	TTE RIVER	BASIN					
Lee Gulch at Littleton, CO (06709740)	Lat 39°35'47", long 105°00'57", in SW1/4SW1/4 sec.21, T.5 S., R.68W., Arapahoe County, on right bank 30 ft upstream from culvert under Prince St. and 0.6 mi upstream from mouth in Littleton. Drainage area not determined.	1980-97	7-27-97	12.10	190	^a 1983	16.00	444
Dutch Creek at Platte Canyon Drive, near Littleton, CO (06709910)	Lat 39°36'01", long 105°02'28", in NW1/4SE¹/4 sec.19, T.5 S., R.69 W., Arapahoe County, on left bank 150 ft down-stream from bridge on Platte Canyon Road. Drainage area not determined.	1985-97	8-04-97	10.97	794	6-01-91	11.51	1,090
Littles Creek at Littleton, CO (06709995)	Lat 39°36'44", long 105°01'09", in SE ¹ /4SE ¹ /4 sec.17, T.5.S., R.68 W., Arapahoe County, 50 ft upstream from Rapp St., and 150 ft south of W. Alamo St. in Littleton. REVISED RECORDSWD CO-89-1: 1988. Drainage area not determined.	1985-97	7-28-97	12.77	431	7-29-90	13.01	503
Weaver Creek near Lakewood, CO (06711305)	Lat 39°38'13", long 105°07'47", in NE¹/4NE¹/4 sec.8, T.5 S., R.69 W., Jefferson County, 500 ft upstream from Simms St., and 700 ft south of West Quincy Ave. Drainage area not determined.	1982-97	8-04-97	11.61	129	^a 1985	13.93	1,010
Little Dry Creek near Arapahoe Road, CO (06711515)	Lat 39°35'38", long 104°54'23", in NE¹/4NE¹/4 sec.29, T.5 S., R.67 W., Arapahoe County, on right bank, 800 ft downstream from Quebec St. (formerly published as Inflow to Holly Reservoir, 1985-86). Drainage area not determined.	1985-97	7-28-97	9.70	515	^a 1985	10.52	800

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--Continued

			Water y	ear 1997	maximum	Period o	of record	l maximum
Station name and number	Location and drainage area	Period of record	Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
	PLATTE	RIVER BASII	N- Continued	l				
Willow Creek at Dry Creek Road, near Englewood, CO (06711535)	Lat 39°34'49", long 104°54'42", in NW1/4NE¹/4 sec.32, T.5 S., R.67 W., Arapahoe County, on left bank, upstream wingwall of bridge on Dry Creek Road over Willow Creek. Drainage area not determined.	1985-97	7-28-97	10.48	1,390	^a 1985	14.28	3,470
Little Dry Creek above Englewood, CO (06711555)	Lat 39°38'57", long 104°58'42", in SE¹/4NE¹/4 sec.3, T.5 S., R.68 W., Arapahoe County, on right bank 250 ft downstream from bridge on Clarkson St., and 800 ft south of Hampton Ave., in Cherry Hills Village. Drainage area not determined. Prior to April 2, 1992, gage was located at a site 300 ft upstream from the present location.	1982-97	7-28-97	7.43	460	^a 1983	15.64	1,060
Harvard Gulch at Colorado Blvd. at Denver, CO (06711570)	Lat 39°40′08", long 104°56′32", in SE¹/4SE¹/4 sec.25, T.4 S., R.67 W., Denver County, on left bank, 100 ft upstream from S. Jackson St., and 400 ft north of E. Yale Ave. Drainage area not determined.	1979-97	9-04-97	12.97	488	7-20-92	13.50	750
Harvard Gulch below University Blvd. at Denver, CO (06711572)	Lat 39°40'10", long 104°57'33", in SE¹/4SE¹/4 sec.26, T.4 S., R.68 W., Denver County, 200 ft, downstream from University Blvd., and 600 ft north of East Yale Ave., in Denver. REVISED RECORDSWDR-CO-92-1: 1989-91. Drainage area not determined.	1979-97	7-28-97	14.24	817	7-12-96	14.55	981
Harvard Gulch at Harvard Park at Denver, CO (06711575)	Lat 39°40'21", long 104°58'35", in NW1/4SW1/4 sec.26, T.4 S., R.68 W., Denver County, on left bank, 200 ft north of E. Harvard Ave. and 300 ft west of S. Ogden St., directly north of Porter Hospital. Drainage area not determined.	1979-97	7-31-97	15.49	776	7-12-96	16.25	1,100
Sanderson Gulch tributary at Lake- wood, CO (06711600)	Lat 39°41'19", long 105°04'54", in NE¹/4NW¹/4 sec.23, T.4 S., R.68 W., Jefferson County, 300 ft upstream from S. Wadsworth Blvd., 300 ft south of W. Florida Ave. in Lakewood. Drainage area is 0.38 mi².	1969-97	7-28-97	13.82	134	6-06-77	4.91	422
Sanderson Gulch at Mouth at Navajo St. at Denver, CO (06711609)	Lat 39°41'33", long 105°00'12", in SW ¹ /4NE ¹ /4 sec.21, T.4 S. R.68 W., Denver County, 200 ft south of Louisiana Ave., at Navajo St. Drainage area not determined.	1985-97	7-28-97	12.08	679	7-28-97	12.08	679
Weir Gulch upstream from 1st Avenue, at Denver, CO (06711618)	Lat 39°43'03", long 105°02'30", in NW1'/4SE¹/4 sec.7, T.4 S., R.68 W., Denver County, 250 ft upstream from 1st Ave.,in Denver. Drainage area not determined.	1985-97	7-28-97	11.17	312	8-01-91	11.91	523

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--Continued

			Water y	ear 1997	maximum	Period o	of record	l maximum
Station name and number	Location and drainage area	Period of record	Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
IIIIIDEI			N- Continued		(10 /5)		(10)	(10 /5/
Dry Gulch at Denver, CO (06711770)	Lat 39°44'03", long 105°02'20", in SW ¹ /4NE ¹ /4 sec.6, T.4 S., R.68 W., Denver County, 800 ft upstream from confluence with Lakewood Gulch, north of West 10th Ave., at Perry St., in Denver. Drainage area not determined.	1980-97	7-28-97	12.06	162	^a 1981	16.00	445
Lakewood Gulch at Denver, CO (06711780)	Lat 39°44'06", long 105°01'54", in SW1/4NW1/4 sec.5, T.4 S., R.68 W., Denver County, 2,000 ft downstream from confluence with Dry Gulch, near intersection of Knox Ct., and West 12th Ave., in Denver. Drainage	1980-97	8-11-97	14.41	988	8-11-97	14.41	988
Sloans Lake, south Tributary at Denver, CO (06711820)	Lat 39°44'44", long 105°03'28", in NW ¹ /4SE ¹ /4 sec.36, T.3 S., R.69 W., Jefferson County, 50 ft south of 18th Ave., at Depew St. REVISED RECORDS WDR CO-90-1: 1985-89. Drain- age area not determined.	1985-97	7-28-97	5.37	100	6-01-91	4.00	451
Westerly Creek at Aurora, CO (06714260)	Lat 39°44'43", long 104°52'48", in NW¹/4SW¹/4 sec.34, T.3 S., R.67 W., Adams County, 50 ft upstream from footbridge. 800 ft upstream from Montview Blvd., and 100 ft east of Boston St., in Aurora. REVISED RECORDS.—WDR CO-90-1: 1983-85, 1987-88. Drainage area not determined.	1982-97	9-4-97	13.93	1,190	^a 1983	14.45	1,530
Lena Gulch at Upper Site, at Golden, CO (06719535)	Lat 39°43'21", long 105°11'46", in NE¹/4NW¹/4 sec.11, T.4 S., R.70 W., Jefferson County, 60 ft north of US 40, and 2,200 ft southwest of US 6, in Golden. Drainage area not determined.	1985-97	7-27-97	10.93	396	7-27-97	10.93	396
Lena Gulch at Lakewood, CO (06719560)	Lat 39°44′27", long 105°08′49", in SE¹/4SE¹/4 sec.31, T.3 S., R.69 W., Jefferson County on right bank 200 ft north of West 15th Drive at Arbutus Prior to July 6, 1988, at site approx. 500 ft downstream (formerly published as Lena Gulch at Alkire at Golden, CO, 1986-87). Drainage area is approximately 9.0 mi².	1974-79 1986-97	7-27-97	12.64	305	7-20-75	14.41	641
Hidden Lake Outflow at 65th Ave near Arvada, CO (06719775)	Lat 39°48'53", long 105°02'03", in SE¹/4SE¹/4 sec.6, T.3 S., R.68 W., Adams County, 30 ft downstream from 65th Ave. at Lowell Blvd. May 1985 to Aug. 1987 at site 200 ft downstream. Drainage area not determined.	1985-97	7-31-97	2.58	26	7-31-97	2.58	26
Little Dry Creek at Westminster, CO (06719840)	Lat 39°49'34", long 105°02'25", in NW ¹ /4NE ¹ /4 sec.6, T.3 S., R.68 W., Adams County, 400 ft downstream from 72nd Ave. in Westminster. REVISED RECORDSWDR CO-89-1: 1986. Drainage area not determined.	1982-97	7-31-97	12.77	1,040	6-01-91	13.09	1,280

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--Continued

			Water y	ear 1997	maximum	Period o	of record	l maximum
Station name and number	Location and drainage area	Period of record	Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
		NSAS RIVER	R BASIN		, , , , , ,			
B-Ditch Tributary blw Hwy 115 at Fort Carson, CO (07105770)	Lat 38°45′53", long 104°48′39", in NW¹/4NW¹/4 sec.8, T.15 S., R.66 W., El Paso County, 200 ft south of Academy Blvd., 0.2 mi downstream from Hwy 115, and 3.7 mi upstream from the mouth. Drainage area is 0.49 mi².(Discontinued 9-30-97)	1993-97	6-10-97	6.48	244	6-10-97	6.48	244
Clover Ditch Tributary at Hwy 115 at Fort Carson, CO (07105810)	Lat 38°45'07", long 104°48'41", in NW ¹ /4NW ¹ /4 sec.17, T.15 S., R.66 W., ElPaso County, 1.1 mi south of intersection of Highway 115 and Academy Boulevard near Colorado Springs. Drainage area is 1.46 mi ² .(Discontinued 9-30-97)	1993-97	6-10-97	12.90	398	6-10-97	12.90	398
Big Arroyo near Thatcher, CO (07120620)	Lat 37°33'17", long 104°01'15", in NW ¹ /4NW ¹ /4 sec.4, T.29 S., R.59 W., Las Animas County, on left bank 2.4 mi from U.S. Route 350,3.2 mi upstream from mouth, and 4.8 mi east of Thatcher. Drainage area is 15.5 mi ² .	1983-90 ^b 1991-97	8-11-97	5.78	1,780	8-11-97	5.78	1,780
Lockwood Canyon Creek near Thatcher, CO (07126390)	Lat 37°29'37", long 103°49'47", in SE ¹ /4NW ¹ /4 sec.30, T.29 S., R.57 W., Las Animas County, on right bank 0.6 mi downstream from Sharp Ranch, 5.3 mi upstream from mouth, and 16 mi southeast of Thatcher. Drainage area is 41.4 mi ² .	1983-93 ^b 1993-97	8-11-97	4.50	23	5-22-87 (revised)		1,110 (revised)
Red Rock Canyon Creek at mouth, near Thatcher,CO (07126415)	Lat 37°30′54", long 103°43′25", in NW1/4SE1/4 sec.18, T.29 S., R.56 W., Las Animas County, on left bank 200 ft downstream from Welsh Canyon, 0.3 mi upstream from mouth, and 21 mi east of Thatcher. Drainage area is 48.8 mi².	1983-90 ^b 1991-97	8-05-97	6.36	78	5-22-87	10.02 (revised)	1,510 (revised)
Chacuaco Creek at mouth, near Timpas, CO (07126470)	Lat 37°32′38", long 103°37′54", in SE¹/4SE¹/4 sec. 1, T.28 S, R.56W, Las Animas County, on right bank at Red Rocks Ranch, 1.5 mi upstream from mouth, 3.3 mi upstream from Bent Canyon Creek, and 21 mi southeast of Timpas. Drainage area is 424 mi².	1983-92 ^b 1993-97	6-05-97	14.20	6,960	7-08-92	16.22	11,800
Bent Canyon Creek at mouth near Tim- pas, CO (07126480)	Lat 37°35′19", long 103°38′51", in SE¹/4SE¹/4 sec.23, T.28 S., R.65 W., Las Animas County, on left bank 0.5 mi upstream from mouth, 0.6 mi southwest of Rourke Ranch house, 0.9 mi upstream from Iron Canyon, and 17 mi southeast of Timpas. Drainage area is 56.2 mi².	1983-90 ^b 1991-97	8-11-97	11.61	2,200	8-21-84	12.56	2,640
Big Sandy Creek above Amity Canal Diversion, near Kornman, CO (07134000)	Lat 38°12'52", long 102°28'45", in NE¹/4NW¹/4 sec.21, T.21 S., R.45 W.,Prowers County,on left bank 106 ft upstream from Amity Canal Diversion 7.0 mi upstream from mouth, and 9.0 mi northeast of Kornman. Drainage area is 3,426 mi².	1941-46 ^b 1996-97	8-06-97	10.93	est 200	9-3-42	^C 5.63	2,900

a-Month or day of occurrence is unknown or not exact. b-Previously operated as a continuous-record gaging station. c-At different datum.

## Special study and miscellaneous sites

Discharge measurements in the following table were made at a miscellaneous site. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

Discharge measurements made at special study and miscellaneous sites during water year 1997.

## ARKANSAS RIVER BASIN

Station r	no Station name	Location and drainage area	Date	Discharge (ft ³ /s)
07079195	East Fork Arkansas River at Highway 91, near Leadville, CO	Lat 39°17'09", long 106°16'45", Lake County, Hydrologic Unit 11020001, at culvert on State Highway 91, 1.6 mi north of Leadville. Drainage area is 35.0 mi ² .	10-04-96 11-06-96 12-03-96 1-08-97 2-05-97 3-05-97 4-02-97 5-07-97 7-02-97 8-06-97 9-03-97	17 12 12 8.0 6.8 8.5 7.8 28 310 143 73 35

#### 384533104495101 B-DITCH RAIN GAGE BELOW HWY 115, AT FORT CARSON, CO

LOCATION.--Lat 38°45'33, long 104°49'51", in NW¹/4SW¹/4 sec.7, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003, approximately 1.0 mi west of intersection of Hwy 115 and Academy Blvd., near Colorado Springs.

DRAINAGE AREA.--0.49 mi² at B-Ditch Tributary below Hwy 115, at Fort Carson, CO (07105770).

#### PRECIPITATION RECORDS

PERIOD OF RECORD.--June 1993 to September 1997 (discontinued), seasonal records only.

GAGE.--Tipping-bucket rain gage and electronic data logger. Elevation of gage is 6,410 ft above sea level, from topographic map.

REMARKS.--Records good. Station is operated in conjunction with partial-record station 07105770, B-Ditch Tributary below Hwy 115, at Fort Carson, CO (published in "Crest-Stage Partial-Record Stations" section of this report). Records published for period of seasonal operation only (Oct. 1 to Nov. 20 and Mar. 20 to Sept. 30). Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 3.33 inches, May 9, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 2.41 inches, June 9 and 13.

TOTAL

1.08

#### PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY SUM VALUES DAY OCT NOV DEC TAN FEB MAR APR MAY TIIN TITT. AUG SEP .00 .01 .00 .01 .00 .08 .00 ___ ---2 .00 .00 ------.04 .00 .00 .00 .03 .02 .00 .00 .01 .00 .00 .00 .00 .06 .00 .00 ---.10 .00 .00 .00 .08 ___ ------5 .00 .00 .00 .00 .21 .01 1.92 .00 1.66 6 7 .00 0.0 .00 0.1 .02 .04 ------___ ____ .18 .00 .00 .00 .00 .00 .00 .00 .00 8 .00 .00 .00 .06 .00 .00 .00 9 .00 .15 .00 ___ ___ ___ ___ .00 0.0 2.41 .00 .00 ------.00 .00 .00 .00 .74 .00 .00 11 0.0 0.0 ___ ___ ___ ___ 0.1 17 0.0 0.2 .03 11 12 ___ ---------.00 .00 .00 .09 .00 .01 .00 .46 .00 .00 2.41 .00 13 .00 .00 .08 .00 .15 14 .00 0.0 ___ ___ ___ ___ .00 0.4 .00 .00 .00 15 .00 .01 .01 .43 .00 .00 .21 .00 .01 16 0.0 0.0 ___ ___ ___ ___ 0.3 0.0 0.0 0.0 0.0 17 .00 .00 .00 .00 .00 .01 .00 .39 .00 .00 .00 .23 .09 .00 .02 .00 19 0.0 0.0 ___ ___ ___ 0.0 0.2 .00 .60 12 16 .00 20 .05 .00 .00 .18 .04 .00 .00 .15 21 42 0.0 3.0 0.0 0.0 ___ ___ ___ ___ 0.4 0.0 0.0 22 .00 .00 .28 .00 .00 .00 .01 .10 23 .00 ---.04 1.08 .04 .00 .00 .00 .00 .72 .00 24 0.0 ___ ___ ___ ___ .07 0.0 0.0 0.0 0.0 25 .08 .00 .16 .09 .15 .47 .00 .00 1.85 .03 26 .00 ------------.00 .06 .09 .01 27 .13 ---.00 .00 .00 .24 .00 .00 .00 28 . 21 ___ ---------.00 .00 .02 .00 .66 .00 .00 1.00 ___ ------.02 29 e.27 ---.00 .24 .00 .04 .00 30 .00 ___ ___ .00 .01 .00 .00 .00 31 .00 ___ ---------.00 .00 .06 .14

4.29

1.36

8.95

3.11

6.45

0.83

## 384519104483601 CLOVER DITCH TRIBUTARY RAIN GAGE AT HWY 115, AT FORT CARSON, CO

LOCATION.--Lat 38°45'19, long 104°48'36", in NW¹/4SW¹/4 sec.8, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003, 3.2 mi south of intersection of Hwy 115 and Lake Avenue, near Colorado Springs.

DRAINAGE AREA.--1.46 mi² at Clover Ditch Tributary at Hwy 115, at Fort Carson, CO (07105810).

## PRECIPITATION RECORDS

PERIOD OF RECORD .-- June 1993 to September 1997 (discontinued), seasonal records only.

GAGE.--Tipping-bucket rain gage and electronic data logger. Elevation of gage is 5,950 ft above sea level, from topographic map.

REMARKS.--Records good. Station is operated in conjunction with partial-record station 07105810, Clover Ditch Tributary at Hwy 115 at Fort Carson, CO (published in "Crest-Stage Partial-Record Stations" section of this report). Records published for period of seasonal operation only (Oct. 1 to Nov. 20 and Mar. 20 to Sept. 30). Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD .-- Maximum daily rainfall, 3.07 inches, May 17, 1995.

EXTREMES FOR CURRENT YEAR .-- Maximum daily rainfall, 2.34 inches, June 13.

## PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00					.00	.00	.02	.00	.03	.02
2	.00	.00					.00	.00	.00	.00	.01	.00
3	.00	.00					.00	.00	.00	.00	.00	.00
4	.00	.00					.07	.00	.00	.00	.94	.18
5	.00	.00					.00	.00	.55	.01	1.53	.00
6	.00	.00					.00	.00	1.60	.12	.24	.01
7	.00	.00					.00	.00	.23	.00	.00	.00
8	.00	.00					.00	.00	.10	.00	.02	.00
9	.00	.00					.00	.00	1.85	.00	.15	.00
10	.00	.00					.00	.00	.93	.00	.62	.00
11	.01	.00					.00	.12	.00	.02	.02	.11
12	.00	.00					.00	.08	.45	.00	.13	.00
13	.00	.00					.00	.00	2.34	.00	.07	.02
14	.00	.00					.00	.03	.11	.00	.00	.00
15	.00	.00					.00	.01	.39	.00	.00	.00
16	.00	.00					.02	.00	.00	.00	.01	.00
17	.00	.00					.00	.00	.00	.00	.51	.00
18	.00	.00					.00	.23	.05	.00	.02	.00
19	.00	.00					.00	.00	.00	.54	.08	.26
20	.08	.00				.00	.00	.00	.00	.05	.21	.07
21	.00					.00	.20	.00	.00	.00	.00	.06
22	.00					.00	.00	.25	.00	.00	.01	.13
23	.00					.00	.64	.01	.00	.00	.00	.00
24	.00					.28	1.59	.00	.00	.00	.00	.00
25	.00					.06	.63	.06	.03	.17	.48	.00
26	.00					.00	.49	.00	.00	.01	.08	.00
27	.00					.00	.00	.00	.00	.27	.00	.00
28	.00					.00	.00	.00	.00	.64	.00	.00
29	.01					.00	.00	.25	.00	.93	.07	.00
30	.00					.00	.00	.01	.00	.11	.00	.00
31	.00					.00		.00		.02	.11	
TOTAL	0.10						3.64	1.05	8.65	2.89	5.34	0.86

## 373125104001601 BIG ARROYO HILLS RAIN GAGE AT PIPELINE ROAD, NEAR HOUGHTON, CO

LOCATION (REVISED).--Lat 37°31'25, long 104°00'16", in SE¹/4 NE¹/4 sec.16, T.29 S., R.59 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site, approximately 100 ft west of Pipeline Road, 200 ft north of Military Supply Road 1, 4.9 mi south of Houghton, 5.9 mi southeast of Thatcher, and 35 mi northeast of Trinidad.

#### PRECIPITATION RECORDS

PERIOD OF RECORD.--June 1993 to current year (seasonal records only).

GAGE.--Tipping-bucket rain gage and electronic data logger. Elevation of gage is 5,560 ft above sea level, from topographic map.

REMARKS.--Records good. Records published for period of seasonal record only (Oct. 1-31 and Apr. 11 to Sept. 30). Daily data are not published when either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall during period of seasonal operation, 1.87 inches, May 5, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall during period of seasonal operation, 1.21 inches, Aug. 11.

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY SUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00							.00	.00	.00	.03	.06
2	.00							.00	.00	.00	.22	.00
3	.00							.00	.00	.00	.00	.00
4	.00							.00	.00	.17	.00	.00
5	.00							.00	.00	.00	1.03	.00
6	.00							.00	.60	.02	.05	.20
7	.00							.00	.20	.04	.00	.00
8	.00							.03	.00	.00	.00	.00
9	.00							.00	.00	.00	.67	.00
10	.00							.00	.26	.00	. 26	.00
11	.00						e.00	.00	.00	.10	1.21	.03
12	.00						.04	.08	.00	.00	.00	.00
13	.00						.00	.00	.00	.00	.00	.00
14	.00						.00	.00	.00	.00	.00	.00
15	.00						.00	.00	.00	.00	.00	.00
16	.00						.00	.00	.08	.00	.00	.00
17	.00						.00	.00	.00	.00	.00	.00
18	.00						.00	.03	.00	.00	.08	.00
19	.00						.00	.16	.00	.04	.00	.00
20	.00						.00	.01	.00	.12	.00	.27
21	.03						.48	.00	.00	.00	.01	.22
22	.03						.14	.00	.09	.00	.00	.10
23	.00						.16	.00	.00	.00	.00	.00
24	.00						.16	.00	.00	.00	.00	.00
25	.00						.36	.00	.00	.03	.00	.00
26	.00						.00	.00	.02	.26	.00	.00
27	.13						.00	.00	.00	.05	.00	.00
28	.00						.17	.00	.00	.85	.00	.00
29	.00						.00	.00	.00	.04	.01	.00
30	.00						.00	.00	.00	.00	.00	.00
31	e.00							.00		.00	.01	
TOTAL	0.19							0.31	1.25	1.72	3.58	0.88

e-Estimated.

## 372721103595601 TAYLOR ARROYO RAIN GAGE AT PIPELINE, NEAR SIMPSON, CO

LOCATION.--Lat 37°27′21″, long 103°59′56″, in SE¹/4SW¹/4 sec.3, T.30 S., R.59 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Manuever Site, approximately 100 ft south of gas pipeline, 0.8 mi southwest of Taylor Arroyo, 3.4 mi northwest of Rock Crossing, 10 mi southeast of Simpson, and 36 mi northeast of Trinidad.

## PRECIPITATION RECORDS

PERIOD OF RECORD.--October 1992 to current year.

GAGE.--Weighing-bucket rain gage and tipping-bucket rain gage and electronic data logger. Elevation of gage is 5,220 ft above sea level, from topographic map.

REMARKS.--Records good. Daily data are not published when either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 2.63 inches, May 5, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 0.94 inch, Aug. 9.

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY SUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06 .08 .00	.06 .00 .00
4 5	.04	.00	.00	.00	.00	.01	.07	.00	.05	.15	.00	.00
6 7 8 9 10	.00 .00 .00 .00	.00 .01 .00 .00	.00 .00 .00 .00	.07 .00 .03 .01	.13 .01 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .02 .00 .00	.52 .24 .01 .00	.00 .00 .00 .00	.03 .00 .00 .94 .17	.41 .00 .00 .00
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.01 .02 .00 .15	.00 .00 .13 .00	.00 .00 .00 .00	.08 .00 .00 .00	.00 .06 .00 .00	.00 .00 .02 .00	.04 .00 .00 .00	.32 .00 .00 .00	.00 .00 .00 .00
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.09 .02 .01 .00	.00 .00 .00 .00	.00 .00 .00 .04	.00 .00 .00 .00	e.00   	.00 .00 .00 .16 .06	.16 .00 .00 .00	.00 .00 .00 .72	.00 .00 .09 .00	.00 .00 .00 .00
21 22 23 24 25	.02 .01 .00 .00	.00 .00 .07 .03	.00 .00 .00 .00	.00 .00 .00 .00	.04 .01 .16 .09	.00 .00 .00 .11		.00 .01 .00 .00	.00 .06 .00 .00	.00 .00 .00 .00	.07 .00 .00 .00	.31 .20 .02 .00
26 27 28 29 30 31	.00 .29 .09 .00 .00	.06 .00 .00 .01 .11	.00 .00 .00 .00	.00 .00 .00 .05 .00	.07 .00 .00 	.00 .00 .00 .00 .00	e.00	.00 .00 .00 .00 .00	.27 .01 .00 .00	.04 .03 .80 .01 .00	.00 .00 .01 .00 .00	.00 .00 .00 .00
TOTAL	0.46	0.29	0.12	0.40	0.71	0.13		0.31	1.45	1.79	2.10	1.27

e-Estimated.

## 372756103513001 LOCKWOOD CANYON RAIN GAGE, NEAR ROCK CROSSING, CO

LOCATION.--Lat 37°27′56″, long 103°51′30″, in NW¹/4 NW¹/4 sec.19, T.30 S., R.58 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site, approximately 100 ft north of Military Supply Road 4 (revised), 5.8 mi east of Rock Crossing, 13.0 mi southeast of Houghton, and 40 mi southwest of La Junta.

## PRECIPITATION RECORDS

PERIOD OF RECORD .-- May 1993 to current year (seasonal records only).

GAGE.--Tipping-bucket rain gage and electronic data logger. Elevation of gage is 5,030 ft above sea level, from topographic map.

REMARKS.--Records good. Records published for period of seasonal operation only (Oct. 1-31 and Apr. 11 to Sept. 30). Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD .-- Maximum daily rainfall, 2.36 inches, May 25, 1996.

EXTREMES FOR CURRENT YEAR .-- Maximum daily rainfall, 1.17 inches, July 28.

	PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY SUM VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00							.00	.00	.00	.05	.00
2	.00							.00	.00	.00	.00	.00
3	.00							.00	.00	.00	.00	.00
4	.00							.00	.30	.14	.00	.00
5	.00							.00	.07	.00	.40	.00
6	.00							.00	.67	.01	.02	.23
7	.00							.02	.39	.00	.00	.00
8	.00							.00	.12	.00	.00	.00
9	.00							.00	.00	.00	.32	.00
10	.00							.00	.07	.00	.27	.00
11	.00						e.00	.00	.00	.04	.68	.00
12	.00						.02	.11	.00	.00	.00	.00
13	.00						.00	.00	.04	.00	.00	.00
14	.00						.00	.00	.00	.00	.00	.00
15	.00						.00	.00	.01	.04	.00	.00
16	.00						.00	.00	.04	.00	.00	.00
17	.00						.00	.00	.00	.00	.00	.00
18	.00						.00	.00	.00	.00	.01	.00
19	.00						.00	.18	.00	.42	.00	.00
20	.00						.00	.01	.00	.00	.00	.15
21	.04						.54	.01	.00	.00	.00	.31
22	.00						.02	.10	.08	.00	.00	.12
23	.00						.14	.00	.00	.03	.00	.03
24	.00						.20	.00	.00	.00	.00	.00
25	.00						.22	.00	.03	.00	.00	.00
26	.00						.00	.00	.28	.23	.00	.00
27	.33						.00	.00	.00	.03	.00	.00
28	.01						.10	.00	.00	1.17	.00	.00
29	.00						.01	.00	.00	.01	.00	.00
30	.00						.00	.02	.00	.00	.00	.00
31	e.00							.00		.00	.01	
TOTAL	0.38							0.45	2.10	2.12	1.76	0.84

e-Estimated.

## 373315103493101 RED ROCK CANYON RAIN GAGE, AT RED ROCK ROAD, CO

LOCATION.--Lat 37°33'15", long 103°49'31", in NE¹/4NE¹/4 sec.6, T.29 S., R.57 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site, approximately 150 ft west of Red Rock Road, 0.4 mi south of Military Supply Road 1 (revised), 12.2 mi southeast of Houghton, and 33 mi southwest of La Junta.

#### PRECIPITATION RECORDS

PERIOD OF RECORD.--October 1993 to current year. Site was part of a hydrologic study 1985-92, data published elsewhere.

GAGE.--Weighing- or tipping-bucket rain gage. Elevation of gage is 4,860 ft above sea level, from topographic map.

REMARKS.--Records good. Daily data are not published when either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD .-- Maximum daily rainfall, 2.75 inches, July 19, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 1.58 inches, Aug. 5.

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY SUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00 .00 .00 .00	.00 .00 .00 .04 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .03	.00 .00 .00 .03	.01 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .17	.05 .01 .00 .00	.00 .06 .00 .00
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.02 .01 .05 .03	.11 .03 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .02 .01 .00	.47 .42 .04 .00	.01 .00 .08 .00	.04 .00 .00 .28 .20	.05 .00 .00 .00
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.02 .06 .00 .15	.00 .00 .10 .00	.00 .00 .00 .00	.06 .01 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.02 .00 .00 .00	.76 .00 .00 .00	.05 .00 .00 .00
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.26 .02 .00 .00	.00 .00 .00 .00	.00 .00 .09 .04	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .16	.00 .00 .00 .00	.00 .00 .00 .65	.00 .00 .01 .00	.00 .00 .00 .00
21 22 23 24 25	.02 .00 .00 .00	.00 .00 .04 .00	.00 .00 .00 .00	.00 .00 .00 .00	.03 .00 .20 .17	.00 .00 .00 .10	.45 .02 .16 .30	.00 .01 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.26 .08 .00 .00
26 27 28 29 30 31	.00 .38 .06 .00 .00	.04 .00 .01 .02 .15	.00 .00 .00 .00	.00 .00 .01 .03 .00	.13 .00 .00 	.00 .00 .00 .00 .00	.00 .00 .00 .05 .00	.00 .00 .00 .00	.01 .00 .00 .00	.08 .02 1.01 .01 .00	.00 .00 .00 .01 .00	.00 .00 .00 .00
TOTAL	0.46	0.31	0.28	0.43	0.96	0.26	1.40	0.22	1.36	2.07	2.94	0.75

WTR YR 1997 TOTAL 11.44

## 373622103490001 STAGE CANYON RAIN GAGE AT RED ROCK ROAD, CO

LOCATION (REVISED).--Lat 37°36′22″, long 103°49′00″, in NE¹/4SW¹/4 sec.17, T.28 S., R.57 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site, approximately 80 ft east of Red Rock Road, 3.2 mi north of Military Supply Road 1, 12.5 mi east of Houghton, and 30 mi southwest of La Junta.

## PRECIPITATION RECORDS

PERIOD OF RECORD.--June 1993 to current year (seasonal records only).

GAGE.--Tipping-bucket rain gage and electronic data logger. Elevation of gage is 4,940 ft above sea level, from topographic map.

REMARKS.--Records good. Records published for period of seasonal operation only (Oct. 1-30 and Apr. 9 to Sept. 30). Daily data that are not published during this period are either missing or of unacceptable quality

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall during period of seasonal operation, 2.42 inches, May 25, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall during period of seasonal operation, 2.01 inches, Aug. 5.

	PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY SUM VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00							.00	.00	.00	.07	.00
2	.00							.00	.00	.00	.01	.00
3	.00							.00	.00	.00	.00	.00
4	.00							.00	.00	.02	.01	.00
5	.00							.00	.00	.00	2.01	.00
6	.00							.00	.51	.00	.09	.05
7	.00							.03	.43	.00	.00	.00
8	.00							.00	.02	.00	.00	.00
9	.00						e.00	.00	.00	.00	. 25	.00
10	.00						.00	.00	.03	.00	.19	.00
11	.00						.00	.00	.00	.02	1.39	.01
12	.00						.08	.00	.00	.00	.00	.00
13	.00						.00	.00	.00	.00	.00	.00
14	.00						.00	.00	.00	.00	.00	.00
15	.00						.00	.00	. 24	.00	.00	.00
16	.00						.00	.00	.01	.00	.00	.00
17	.00						.00	.00	.00	.00	.00	.00
18	.00						.00	.02	.00	.00	.07	.00
19	.00						.00	.14	.00	.40	.01	.00
20	.00						.00	.00	.00	.01	.00	.44
21	.01						.49	.00	.00	.00	.01	.27
22	.00						.03	.03	.00	.00	.00	.04
23	.00						.19	.00	.00	.00	.00	.00
24	.00						.60	.00	.04	.00	.00	.00
25	.00						.13	.00	.06	.00	.00	.00
26	.02						.00	.00	.05	.02	.00	.00
27	.31						.00	.00	.00	.01	.00	.00
28	.01						.05	.00	.00	1.17	.00	.00
29	.00						.04	.00	.00	.00	.01	.00
30	e.00						.00	.02	.00	.00	.00	.00
31								.00		.00	.00	
TOTAL								0.24	1.39	1.65	4.12	0.81

e-Estimated.

## 373232103555201 BEAR SPRINGS HILLS RAIN GAGE NEAR HOUGHTON, CO

LOCATION.--Lat 37°32'32", long 103°55'52", in SW¹/4SW¹/4 sec.5, T.29 S., R.58 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site, approximately 100 ft north of Military Supply Road 3 (revised), 5.8 mi east of Pipeline Road, 6.7 mi southeast of Houghton, and 37 mi southwest of La Junta.

#### PRECIPITATION RECORDS

PERIOD OF RECORD.--October 1993 to current year. Site was part of a hydrologic study 1985-92, data published elsewhere.

GAGE.--Weighing- or tipping-bucket rain gage with electronic data logger. Elevation of gage is 5,200 ft above sea level, from topographic map.

REMARKS.--Records good except Oct. 1-30, which are fair, and Apr. 16 to July 15, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall (revised), 2.82 inches, May 3, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 1.30 inches, June 6.

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY SUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00 .00 .00 .00	.00 .00 .00 .02	.00 .00 .00 .00	.00 .00 .00 .00	.00	.00 .00 .00 .04	.00 .00 .00 .09	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .35	.04 .00 .00 .00	.09 .04 .00 .00
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.07 .01 .07 .02	.17 .01 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .02 .00 .00	1.30 .48 .13 .00	.10 .00 .00 .00	.06 .00 .00 .82	.05 .00 .00 .00
11 12 13 14 15	.00	.00 .00 .00 .00	.00 .00 .00 .00	.02 .06 .00 .09	.00 .00 .15 .00	.00 .00 .00 .00	.11 .00 .00 .00	.00 .10 .00 .00	.00 .00 .01 .00	.08 .00 .00 .00	.86 .00 .00 .00	.01 .00 .00 .00
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.27 .02 .00 .00	.03 .00 .00 .00	.00 .00 .06 .03	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .03 .18	.04 .00 .00 .00	.00 .00 .00 .06	.00 .00 .05 .00	.00 .00 .00 .00
21 22 23 24 25	.02 .00 .00 .00	.00 .00 .06 .01	.00 .00 .00 .00	.00	.05 .00 .22 .13	.00 .00 .00 .26 .08	.56 .16 .23 .34 .29	.00 .00 .00 .00	.00 .04 .00 .00	.00 .00 .00 .00	.01 .00 .00 .00	.22 .08 .00 .00
26 27 28 29 30 31	.00 .23 .00 .00 .00	.04 .00 .01 .03 .16	.00 .00 .00 .00 .00	.00	.12 .02 .00 	.00	.00 .00 .07 .00 .00	.00 .00 .00 .00 .01	.21 .00 .00 .00 .00	.06 .01 .83 .01 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00
TOTAL	0.25	0.33	0.29	0.41	1.05	0.38	2.11	0.36	2.32	1.61	2.92	0.78

WTR YR 1997 TOTAL 12.81

## 373823103465601 BENT CANYON RAIN GAGE ABOVE STAGE CANYON NEAR DELHI, CO

LOCATION (REVISED).--Lat 37°38'23", long 103°46'56", in SW¹/4NW¹/4 sec.3, T.28 S., R.57 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site, approximately 80 ft north of Military Supply Road 1A, 1.2 mi above Stage Canyon, 6.7 mi west of Rourke Road, 12.9 mi east of Delhi, and 27 mi south of La Junta.

#### PRECIPITATION RECORDS

PERIOD OF RECORD.--October 1993 to current year. Site was part of a hydrologic study 1985-92, data published elsewhere.

GAGE.--Weighing- or tipping-bucket rain gage and electronic data logger. Elevation of gage is 4,860 ft above sea level, from topographic map.

REMARKS.--Records good. Daily data are not published when either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall (revised), 2.55 inches, May 3, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 2.02 inches, Aug. 11.

## PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00 .00 .00 .00	.00 .00 .01 .06	.00 .02 .00 .00	.00 .00 .01 .00	.00 .00 .00 .00	.00 .00 .00 .03	.00 .00 .00 .02 .16	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .19	.05 .04 .00 .01 1.45	.00 .00 .00 .00
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.03 .01 .06 .01	.16 .05 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .01 .00 .00	.34 .36 .00 .00	.00 .00 .00 .00	.11 .00 .00 .21	.13 .00 .00 .00
11 12 13 14 15	.00 .00 .00 .01	.00 .00 .00 .00	.00 .00 .00 .01	.04 .05 .00 .14	.00	.00 .00 .00 .00	.08 .00 .00 .00	.00 .01 .00 .00	.00 .00 .00 .00	.02 .00 .00 .00	2.02 .01 .00 .00	.13 .00 .00 .00
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	.33 .03 .00 .00	.02 .00 .00 .00	.00 .00 .05 .04	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .02 .16	.01 .00 .00 .00	.00 .00 .00 .44	.00 .00 .22 .00	.00 .00 .00 .00
21 22 23 24 25	.02 .00 .00 .00	.00 .00 .05 .00	.00 .00 .00 .00	.01 .00 .00 .00	.07 .00 .21 .15	.00 .00 .00 .17 .12	.51 .02 .17 .62	.00 .02 .00 .00	.00 .00 .00 .00	.01 .00 .00 .00	.00 .00 .00 .00	.28 .03 .01 .00
26 27 28 29 30 31	.01 .32 .28 .00 .00	.03 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.18 .02 .00 	.00 .00 .00 .00	.00 .00 .02 .08 .01	.00 .00 .00 .00	.07 .00 .00 .00	.00 .02 1.04 .08 .00	.00 .00 .00 .08 .00	.00 .00 .00 .00
TOTAL	0.64	0.34	0.41	0.45	1.07	0.32	1.89	0.22	1.33	1.89	4.64	0.97

WTR YR 1997 TOTAL 14.17

## 3737061033901 IRON CANYON RAIN GAGE, NEAR ROURKE RANCH, CO

LOCATION (REVISED).--Lat 37°37′06", long 103°39′01", in SE¹/4SE¹/4 sec.11, T.28 S., R.56 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site, approximately 0.2 mi west of Rourke Road, 1.8 mi north of Rourke Ranch, 15.2 mi southeast of Ayer, and 27 mi southwest of La Junta.

#### PRECIPITATION RECORDS

PERIOD OF RECORD.--June 1993 to current year (seasonal records only).

GAGE.--Tipping-bucket rain gage and electronic data logger. Elevation of gage is 4,680 ft above sea level, from topographic map.

REMARKS.--Records good. Records published for period of seasonal record only (Oct. 1-30 and Apr. 9 to Sept. 30). Daily data that are not published during this period are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall during period of seasonal operation, 2.68 inches, May 17, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall during period of seasonal operation, 1.67 inches, Aug. 5.

			PRE	CIPITATION	N (INCHES),		AR OCTOBI M VALUES	ER 1996 TO S	SEPTEMBER	1997		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00							.00	.00		.05	.00
2	.00							.00	.00		.00	.00
3	.00							.00	.00		.00	.00
4	.00							.00	.00		. 29	.00
5	.00							.00	.00		1.67	.00
6	.00							.00	e.00		.04	.34
7	.00							.03			.00	.00
8	.00							.00			.00	.00
9	.00						e.00	.00			.46	.00
10	.00						.00	.00			.38	.00
11	.00						.00	.00			.80	.03
12	.00						.00	.01			.00	.00
13	.00						.00	.00			.00	.00
14	.00						.00	.00		e.00	.00	.00
15	.00						.00	.00		e.00	.00	.00
16	.00						.00	.00		.00	.00	.00
17	.00						.00	.00		.00	.00	.00
18	.00						.00	.00		.00	.07	.00
19	.00						.00	.11		.17	.00	.00
20	.00						.00	.00		.02	.00	. 29
21	.00						.46	.00		.00	.00	.37
22	.00						.00	.19		.00	.00	.01
23	.00						.11	.00		.00	.00	.00
24	.00						.43	.00		.00	.00	.00
25	.00						.10	.00		.02	.00	.00
26	.15						.00	.00		.00	.00	.00
27	.37						.00	.01		.12	.00	.00
28	.02						.04	.00		.50	.00	.00
29	.00						.17	.00		.03	.00	.00
30	e.00						.01	.00		.00	.00	.20
31								.00		.00	.00	
TOTAL								0.35			3.76	1.24

e-Estimated.

## 372959104092201 CANTONMENT RAIN GAGE NEAR CEMETERY, AT SIMPSON, CO

LOCATION.--Lat 37°29′59", long 104°09′22", in SE¹/4SE¹/4 sec.19, T.29 S., R.60 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site, approximately 200 ft north of Military Supply Road 1 (revised), 0.1 mi east of Simpson Cemetery, 0.4 mi east of Highway 350, and 32 mi northeast of Trinidad.

## PRECIPITATION RECORDS

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

GAGE.--Weighing- or tipping-bucket rain gage and electronic data logger. Elevation of gage is 5,630 ft above sea level, from topographic map.

REMARKS.--Records good. Daily data are not published when either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 1.41 inches, Sept. 9, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 1.09 inches, Aug. 1.

PRECIPITATION (INCHES), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY SUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.00 .00 .00 .00	.00 .00 .00 .08	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .03	.00 .00 .00 .00	.00 .00 .12 .07	.00 .00 .00 .01	1.09 .00 .00 .07 .35	.00 .00 .00 .00
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.01 .02 .00 .00	.08 .01 .06 .02	.17 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .03 .01 .00	.44 .14 .05 .01	.00 .00 .00 .00	.13 .00 .00 .58 .16	.03 .00 .00 .00
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.04 .07 .01 .16	.00 .01 .22 .00	.00 .00 .00 .00	.11 .00 .00 .00	.01 .05 .00 .00	.00 .00 .00 .00	.13 .00 .00 .00	.87 .00 .00 .00	.12 .00 .00 .00
16 17 18 19 20	.00 .00 .00 .00	.01 .03 .00 .00	.30 .06 .00 .00	.01 .00 .00 .00	.00 .00 .02 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .03 .15	.14 .00 .00 .00	.00 .00 .00 .09	.00 .00 .06 .00	.00 .00 .00 .00
21 22 23 24 25	.07 .02 .00 .00	.00 .00 .11 .00	.00 .00 .00 .00	.00 .00 .00 .00	.03 .00 .21 .16	.00 .00 .00 .26	.29 .07 .09 .41	.00 .02 .02 .00	.00 .09 .00 .00	.00 .00 .00 .00	.38 .00 .00 .00	.20 .10 .01 .00
26 27 28 29 30 31	.00 .26 .07 .00 .00	.04 .00 .00 .04 .21	.00 .00 .00 .00 .00	.00 .00 .00 .03 .00	.10 .00 .00 	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .03	.18 .00 .00 .00	.03 .01 .85 .12 .00	.00 .00 .00 .01 .00	.00 .00 .00 .00
TOTAL	0.42	0.52	0.39	0.62	1.03	0.26	1.99	0.35	1.42	1.25	3.71	0.70

CAL YR 1996 TOTAL 10.86 WTR YR 1997 TOTAL 12.66

## SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

## MISCELLANEOUS STATION ANALYSES

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)		
		06614800	MICHIGA	AN RIVER NEA	R CAMERON PASS, CO	) (LAT 40	29 46N LONG	3 105 51 52W	)		
OCT 1996 02	1015	1.9	46	3.5	MAY 1997 14	1300	2.4	42	0.5		
NOV 13	1510	0.72	53	1.5	JUN 10	1535	20	40	1.0		
JAN 1997 07	1440	0.44	60	0.5	JUL 09	1530	11	59	7.0		
MAR 06	1415	0.33	54	1.5	AUG 28	1050	2.8	49	8.5		
APR 23	1435	0.42	49	1.0							
06697100 TARRYALL CREEK BELOW PARK GULCH NEAR COMO, CO (LAT 39 16 54N LONG 105 47 11W)											
APR 1997 17	1130	7.8	270	9.5	JUL 1997 25	0850	29	199	12.5		
MAY 21	0910	53	193	5.5	AUG 13	1120	32	196	10.5		
JUN 10	0920	144	234	7.5	SEP 18	0750	16	213	9.0		
OGT 1006	0669900	5 TARRY	ALL CREEK	BELOW ROCI	K CREEK NEAR JEFFER	SON, CO (	LAT 39 17 131	N LONG 105	41 43W)		
OCT 1996 18 NOV	1255	22	160	2.5	JUN 1997 13 JUL	1007	328	171	9.0		
13 DEC	1215	22	157	0.5	10 AUG	1108	115	143	12.5		
03 APR 1997	1315	10	166	0.0	06 SEP	1351	142	154	13.5		
07 MAY	1215	18	203	1.0	05	1143	110	220	14.0		
13	0940	89	166	7.5							
		067	09000 PL	UM CREEK NI	EAR SEDALIA, CO (L	AT 39 26 1	8N LONG 104	58 57W)			
OCT 1996					MAY 1997						
03	1225 1237	2.2	395 395	18.5 18.5	16 JUN	1238	38	270	21.5		
NOV 19	1140	8.3	457	9.5	JUL	1528	58	251	22.0		
JAN 1997 07 MAR	1400	8.5	465	0.0	08 AUG 15	1151 1246	3.3	348 306	24.5 24.5		
05 APR	1310	11	492	7.5	SEP 10	0950	11	384	18.5		
18	1420	16	374	16.0	10	0,50	11	204	10.5		
		06709530	PLUM CRI	EEK AT TITAN	RD NEAR LOUVIERS,	CO (LAT 39	9 30 27N LON	G 105 01 23W	V)		
NOV 1996 08	1420	2.1	557	8.5	JUN 1997 11	1235	58	278	22.0		
DEC 13	1130	6.2	491	4.5	19 26	1028 1440	40 16	303 312	21.5 27.0		
JAN 1997 07	1520	1.5	510	0.5	JUL 01	1422	2.0	347	25.5		
MAR 05	1510	9.3	483	8.0	AUG 15	1054	28	325	20.0		
APR 23	1310	17	403	18.5	SEP 10	1212	7.1	394	24.0		
MAY 12	1300	53	80	18.5							
	06710247	SOUTH	PLATTE RIV	ER BELOW U	NION AVE, AT ENGLEW	VOOD, CO	(LAT 39 37 58	N LONG 105	5 00 54W)		
OCT 1996 03	1515	12	670	19.5	JUN 1997 02	1306	366	485	20.0		
JAN 1997 15	1535	14	1170	0.0	JUL 02	1415	432	313	21.0		
MAR 18	1000	46	571	7.5	AUG 08	1348	805	430	23.0		
APR 14	1500	63	577	11.0	08 SEP	1530	703	406	23.0		
MAY 19	1122	174	750	14.0	04	1200	88	554	22.5		

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)		
		06710	0385 BEA	AR CREEK ABO	VE EVERGREEN, CO	(LAT 39 37	58N LONG 10	)5 19 59W)			
NOV 1996 12	1033	11	65	0.5	JUN 1997 02	1108	109	46	10.5		
DEC 04 FEB 1997	1303	13	75	0.0	JUL 11 25	1240 0945	64 47	53 54	12.0 13.5		
21 APR	1242	10	81	0.0	AUG 21	1008	76	62	11.0		
15 MAY	1200	19	256	2.5	SEP 08	1336	67	67	13.0		
06	1045	79	77	6.0							
06710605 BEAR CREEK ABOVE BEAR CREEK LAKE NEAR MORRISON, CO (LAT 39 39 08N LONG 105 10 23W)											
OCT 1996 23	1430	20	234	6.0	JUN 1997 23	1345	186	101	20.0		
JAN 1997 14	1440	18	291	0.0	JUL 22	1118	33	126	17.0		
FEB 20	1145	17	437	2.0	AUG 21	1120	75	128	15.0		
APR 03	1547	2.3	773	14.0	SEP 08	1436	67	130	17.0		
MAY 05	1453	118	190	13.0							
		06711545	LITTLE DRY	CREEK AT GI	REENWOOD VILLAGE	, CO (LAT	39 37 02N LON	NG 104 57 08	W)		
OCT 1996 25	1024	3.5	1060	6.0	JUN 1997 02	1250	3.7	750	20.0		
DEC 09	1507	3.6	1860	5.5	JUL 15	1055	6.3	418	19.0		
JAN 1997 14	1315	2.0	1970	0.5	29 AUG	1020	23	772	19.0		
FEB 20	1025	3.8	1380	2.5	21 SEP	1430	5.7	1520	21.5		
APR 01 MAY	1015	2.8	1770	10.0	11	1115	4.7	1070	17.5		
05	1250	3.8	1650	17.0							
		0671200	00 CHER	RY CREEK NEA	AR FRANKTOWN, CO	(LAT 39 2	1 21N LONG 1	04 45 46W)			
OCT 1996 24	1225	3.3	220	7.5	JUN 1997 30	1152	2.4	200	21.0		
DEC 09	1215	4.5	218	2.0	JUL 21	1145	1.4	198	20.5		
MAR 1997 11	1104	10	192	5.0	AUG 27	1205	9.7	218	19.0		
APR 16 MAY	1056	7.4	226	8.5	SEP 11	1330	3.6	208	21.0		
28	1144	3.0	200	16.5							
		39310	9104464500	CHERRY CREE	K NEAR PARKER, CO	(LAT 39 31	09N LONG 10	04 46 45W)			
OCT 1996 24	1150	2.3	647	15.0	MAY 1997 20	1250	3.3	636	17.5		
DEC 09	1408	1.1	627	9.5	JUN 04	1102	2.3	668	17.0		
JAN 1997 15	1325	1.5	673	7.5	30 JUL	1318	2.2	623	20.0		
FEB 14	1119	3.1	646	7.5	21 31	1240 1005	3.0 2.5	643 661	20.5 19.0		
MAR 03	1155	10	533	5.5	AUG 12	1000	42	266	15.5		
APR 01	0940	5.7	502	7.5	21 SEP	1255	5.1	555	19.5		
16	1200	7.0	495	9.0	11	1426	3.9	622	21.0		
	C	06713000	CHERRY CR	EEK BELOW CI	HERRY CREEK LAKE,	CO (LAT	39 39 12N LO	NG 104 51 4	1W)		
FEB 1997 28	1140	20	1060	4.0	AUG 1997 14	1350	35	820	17.0		
APR 03	1430	7.3	1040	10.5							

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE AT GLENDALE, CO (L	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 1996					MAY 1997				
10 16	1030 1510	15 10	1220 1440	16.5 15.5	12 14	1212 1330	13 289	1170 1100	20.0 15.0
NOV 12 DEC	1222	6.8	1510	8.0	14 JUN 16	1355 1411	340 18	1050 730	15.0 16.0
09	1032	5.5	550	6.0	JUL				
JAN 1997 14 FEB	1212	4.4	1400	3.0	15 30 AUG	1206 1325	15 37	1130 750	23.5 24.5
14	1020	4.1	1800	4.5	14 SEP	1450	40	720	18.0
MAR 11	0906	20	1160	5.5	09	1250	18	1170	21.0
APR 10 25	1300 1200	29 109	1150 558	5.0 8.0					
		067	13500 C	HERRY CREEK	AT DENVER, CO (L	AT 39 44 58	N LONG 105	00 08W)	
OCT 1996 25	1210	19	982	11.0	MAY 1997 12	1120	14	1120	17.0
NOV					14	1600	447	1040	13.0
20 FEB 1997	1112	11	1280	12.5	JUL 09	1310	22	1000	22.0
13 APR	1330	9.3	1350	10.0	AUG 08	1204	57	970	22.0
01	1400	8.7	1230	14.0	26	1125	67	956	21.5
25	1100	124	611	8.0	SEP 16	1235	23	1080	21.5
	06714	215 SOUTI	H PLATTE R	LIVER AT 64TH	AVE. COMMERCE CI	ΓY, CO (L.	AT 39 48 44N	LONG 104 5	7 28W)
OCT 1996 23	1140	13	1320	12.0	MAY 1997 21	1032	16	1090	18.0
DEC 11	0958	9.7	1300	7.0	JUN 25	1010	315	396	18.0
FEB 1997					AUG				
12 MAR	1122	16	1650	7.0	20 SEP	1027	115	653	19.0
25 APR	1120	9.5	1480	10.0	16	1315	186	787	20.0
28	1135	20	688	8.5					
	394	1839104570300	SAND CRE	EK AT MOUTH	NEAR COMMERCE C	ITY, CO (LA	AT 39 48 39N 1	LONG 104 57	( 03W)
OCT 1996 17 DEC	1119	18	1510	8.0	MAY 1997 21 JUL	1145	60	777	18.0
11	1052	17	1690	7.0	09	1030	165	554	19.0
FEB 1997 12 MAR	1105	19	1820	5.0	AUG 18 26	1250 1040	146 176	682 365	20.5 19.5
25	1300	27	1510	10.5	SEP				
APR 28	1250	68	550	9.0	18	1325	146	386	20.0
3943081054	13800 CLE	AR CREEK AF	BOVE GEOR	GETOWN RESE	RVOIR NEAR GEORG	GETOWN, C	O (LAT 39 43	08N LONG 1	105 41 38W)
JUL 1997 03	1150	335	71	7.0	SEP 1997 19	1030	56	111	9.5
AUG 08	0738	154	85	7.0					
3943591054	11900 CLE.	AR CREEK BE	LOW GEOR	GETOWN RESE	RVOIR NEAR GEORG	GETOWN, C	CO (LAT 39 43	59N LONG	105 41 19W)
JUL 1997 08	1300	278	97	9.0	SEP 1997 19	0940	57	111	10.5

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)			
	06715000	CLEAR CR	REEK ABOVI	E WEST FORK	CLEAR CREEK NEAR	EMPIRE, C	O (LAT 39 45 (	07N LONG 1	05 39 41W)			
OCT 1996 03 NOV	0930	53	133	8.0	JUN 1997 05 JUL	1010	513	73	7.0			
06 APR 1997	0805	26	145	0.5	09 AUG	0746	262	76	8.0			
09	0852	22	243	1.5	07	0820	182	87	9.0			
MAY 07	0728	61	262	8.0	SEP 04	0905	96	110	12.5			
06716100 WEST FORK CLEAR CREEK ABOVE MOUTH NEAR EMPIRE, CO (LAT 39 45 32N LONG 105 39 34W)												
OCT 1996 03	1035	32	230	7.0	JUN 1997 11	0750	475	88	4.0			
JAN 1997 15	0950	14	281	0.0	JUL 09	1040	258	90	7.5			
APR 09	0954	17	395	1.0	AUG 07	0923	115	115	7.5			
MAY 07	0831	50	316	4.0	SEP 04	1020	54	187	11.5			
	06716500 CLEAR CREEK NEAR LAWSON, CO (LAT 39 45 57N LONG 105 37 32W)											
OCT 1996					JUN 1997							
03 NOV	1150	78	175	8.0	11 JUL	0940	923	74	4.0			
06 MAR 1997	1035	45	195	0.5	09 AUG	1111	508	83	9.0			
10 APR	1145	23	324	2.0	07 SEP	1018	293	101	9.5			
09 MAY	1033	37	309	2.0	04	1115	140	141	13.0			
07	1000	115	286	7.0								
	06717400	CHICAGO	CREEK BELO	OW DEVILS CA	ANYON NEAR IDAHO	SPRINGS, O	CO (LAT 39 42	58N LONG	105 34 15W)			
OCT 1996	1010	0.0		0.0	JUN 1997	0005	110	4.0				
03 NOV	1312	9.8	66	8.0	12 AUG	0937	119	42				
05 JAN 1997	1340	11	62	1.0	07 SEP	1220	38	58	9.5			
15 MAR	1100	5.5	34	0.0	04	1315	18	61	11.5			
10 MAY	1320	5.0	75	1.5								
06	1243	21	79	6.0								
	06718300	CLEAR C	REEK ABOV	E JOHNSON G	ULCH NEAR IDAHO S	PRINGS, CO	) (LAT 39 44 4	7N LONG 10	05 26 08W)			
OCT 1996 04	0720	124	180	7.0	MAY 1997 07	1241	198	255	9.0			
NOV 06	1210	59	228	1.5	JUL 11	0844	635	93	9.0			
MAR 1997 07	1035	38	336	0.0	AUG 07	1345	452	107	13.0			
11 13	1315 1300	46 46	319 326	5.5 3.0	SEP 04	1340	248	61	11.5			
25 APR	0940	46	309	0.0								
04 29	1102 1315	70 117	300 293	4.5 6.5								
	0671855	0 NORTH	I CLEAR CRI	EEK ABOVE M	OUTH NEAR BLACKH	IAWK, CO (	LAT 39 44 561	N LONG 105	23 57W)			
OCT 1996					MAY 1997							
04 NOV	0840	4.6	441	7.5	06 30	1353 1034	39 78	269 114	10.5			
05 MAR 1997	1400	3.1	478	6.5	JUL 11	1110	19	225	13.0			
10 APR	1440	3.9	542	6.0	AUG 07	1358	16	265	18.0			
09	1336	7.0	435	8.5	SEP 04	1500	6.9	329	18.5			

## SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	
		06	5719505	CLEAR CREEK	AT GOLDEN, CO (LA	AT 39 45 11	N LONG 105 1	4 05W)		
OCT 1996 17	1457	73	211	4.0	MAY 1997 21	1300	584	129	9.0	
NOV 12	1454	52	260	3.5	JUN 13	1345	1440	98	9.0	
JAN 1997 07	1127	31	389	0.0	JUL 03	1410	788	95	12.5	
MAR 04	1110	41	404	0.5	AUG 08	1045	380	120	12.0	
APR 01	1440	72	330	6.5	SEP 04	1105	205	149	15.0	
		067208	20 RIG I	ORV CREEK AT	WESTMINSTER, CO	Л ДТ 39 54	20N I ONG 10	5 02 04W)		
NOV 1996		007200	20 BIG I	ort creek m	MAY 1997	(1111 3) 34	2011 EOITO 10	3 02 0111)		
20 JAN 1997	1250	2.0	1750	8.0	05 JUN	1625	7.8	1050	20.5	
02 FEB	1117	1.5	1720	3.5	05 JUL	1031	54	343	13.0	
05 MAR	1450	1.3	1930	3.5	07 AUG	1537	83	287	18.5	
07 APR	1355	1.3	1990	9.0	11 SEP	1200	11	937	19.5	
09	1400	2.6	1360	8.5	05	1223	22	534	20.5	
06720990 BIG DRY CREEK AT MOUTH NEAR FORT LUPTON, CO (LAT 40 04 09N LONG 104 49 52W)										
OCT 1996	1220	1.2	1500	10.5	MAY 1997	1010	20	1000	10 5	
17 NOV	1330	13	1500	10.5	01 JUN	1210	30	1290	12.5	
25 JAN 1997	1205	22	1310	7.0	03 JUL	1435	51	744	21.5	
15 22	1215 1018	23	1380	0.5 	02 AUG	1020	20	670	16.5	
FEB 27	1120	24	1460	3.0	19 SEP	1510	46	1150	21.0	
MAR 18	1130	20	1430	11.0	08	1045	71	988	19.0	
APR 08	1153	60	1130	6.0						
	0	6721500 N	ORTH ST. V	/RAIN CREEK I	NEAR ALLENS PARK,	CO (LAT	40 13 08N LOI	NG 105 31 40	W)	
OCT 1996					MAY 1997					
22 NOV	1110	22	21	0.0	12 JUN	1118	65	22	4.5	
12 JAN 1997	1017	13	22	1.5	04 JUL	1859	472			
13 MAR	1245	9.5	27	0.0	11 SEP	1155	159	13	9.0	
10 APR	1050	13	27	0.0	08	1620	45	16	14.0	
08	1055	13	25	2.0						
		06725450	ST. VR	AIN CREEK BE	LOW LONGMONT, CO	(LAT 40	09 29N LONG	105 00 53W)		
OCT 1996 08	1135	63	1420	14.5	JUN 1997 12	1036	1530	154	11.0	
NOV 14	1420	51	1380	7.0	JUL 16	1435	177	1160	23.0	
JAN 1997 10	1335	42	1400	1.0	AUG 19	1241	116	959	19.0	
MAR 07	1240	36	1650	10.0	SEP 12	1245	117	1160	21.5	
APR 08	1538	57	1010	6.5	30	1030	165	908	17.5	
MAY 02	1230	334	550	8.5						

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	0673020	00 BOULI	DER CREEK	AT NORTH 75	TH STREET NEAR BO	ULDER, CO	O (LAT 40 03 0	6N LONG 10	5 10 42W)
OCT 1996 08	1410	101	679	18.0	MAY 1997 16	1110	147	585	15.0
NOV 14	1110	37	465	17.0	JUN 25	1140	782	267	14.5
FEB 1997 12	1405	35	862	13.0	JUL 22	1324	208	597	22.0
MAR 26	1215	58	764	4.5	AUG 20	1455	67	773	21.5
APR	1340	280	578	11.5	SEP 12	1002	108	720	21.5
30	1340	200	576	11.5	12	1002	100	720	21.5
		0673	0400 CO	AL CREEK NE	AR LOUISVILLE, CO	LAT 39 58	34N LONG 105	5 07 00W)	
JUL 1997 03 28	1110 1244	8.3 2.2	229 600	16.5 18.0	SEP 1997 08	1220	2.0	933	19.5
AUG 07 20	1137 1151	9.5 4.6	502 823	19.0 19.0					
	06	730500 BG	OULDER CR	EEK AT MOUT	ГН, NEAR LONGMONT.	, CO (LA	Γ 40 09 08N LC	NG 105 00 5	2W)
OCT 1996	1045	100	500	15.0	MAY 1997	1.415	240	405	10.0
08 NOV	1245	102	588	15.0	01 JUN	1415	340	485	10.0
14 JAN 1997	1350	53	657	6.0	JUL	1405	1060	189	14.5
10 MAR	1144	55	519	0.0	16 AUG	1100	4.4	780	22.5
07 APR	1050	62	618	7.0	18 SEP	1515	12	844	25.5
08	1244	70	690	5.5	12	1120	22	612	21.5
	06746	095 JOE V	VRIGHT CRI	EEK ABOVE JO	DE WRIGHT RESERVOI	R, CO (L	AT 40 32 24N I	LONG 105 52	56W)
OCT 1996 01	1715	8.7	54	6.5	MAY 1997 14	1515	8.5	57	0.0
NOV 14	1230	2.2	63	0.5	JUN 11	0945	96	35	2.5
JAN 1997 08	1100	1.4	72	0.0	JUL 09	1330	46	44	9.0
MAR 07	1000	0.40	79	0.0	AUG 27	1525	11	53	14.5
APR 24	1040	1.2	79	0.0					
	06746	110 JOE V	VRIGHT CRE	EEK BELOW JO	DE WRIGHT RESERVOI	R, CO (L.	AT 40 33 43N I	LONG 105 52	09W)
OCT 1996 02	1134	0.94	44	3.0	APR 1997 24	1210	4.5	61	1.5
NOV 14	1230	2.0	46	1.0	JUN 11	1140	18	47	5.0
JAN 1997 08	1300	1.9	45	1.0	18 AUG_	1155	102	44	4.0
MAR 07	1205	1.9	53	1.5	27	1320	77	35	8.0
	07079195	EAST FOR	K ARKANSA	AS RIVER AT I	HWY 91 NEAR LEADVII	LLE, CO (I	LAT 39 17 09N	LONG 106 1	6 45W)
OCT 1996 04	0750	17	184	3.0	APR 1997 02	0935	7.8	207	1.5
NOV 06	0825	12	190	0.0	MAY 07	0915	28	194	3.5
DEC 03	1345	12	204	0.0	JUN 04	1100	310	100	5.5
JAN 1997 08	1400	8.0	158	0.0	JUL 02	0930	143	112	5.0
FEB 05	1315	6.8	204	0.0	AUG 06	0840	73	120	7.5
MAR 05	1525	8.5	202	0.0	SEP 03	1000	35	152	10.0
05	1323	0.5	202	0.0	03	±000	55	134	10.0

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	07079300	EAST FORK	ARKANSAS	RIVER AT US	HWY 24, NEAR LEAD\	/ILLE, CO	(LAT 39 16 21	N LONG 106	5 18 21W)
NOV 1996 06	0900	17	313	1.0	MAY 1997 07	1100	30	263	7.0
DEC 03	1245	23	347	0.0	JUN 04	1700	517	117	10.0
JAN 1997 08	1230	7.7	303	0.0	JUL 02	1115	164	127	7.0
FEB 05	1410	13	360	0.5	AUG 06	1100	81	155	8.0
MAR 05	1430	12	350	1.5	SEP 03	1300	35	190	13.0
APR 02	1045	12	345	3.5					
		07081200	ARKAN	SAS RIVER NE	AR LEADVILLE, CO (L	AT 39 15 2	6N LONG 106	20 35W)	
OCT 1996	1200	2.4	200	0 5	APR 1997	1015	22	220	4 5
NOV	1200	34	200	8.5	02 MAY	1215	23	238	4.5
06 DEC	1055	29	231	1.5	07 JUN	1420	143	123	5.5
03 JAN 1997	1100	18	230	0.0	05 JUL	1115	944	74	6.5
08 FEB	1100	15	216	0.0	02 AUG	1200	257	97	10.0
05 MAR	1630	18	266	0.0	06 SEP	1500	190	107	10.0
06	1015	13	236	0.0	03	1500	61	158	17.0
		0708300	00 HALF	MOON CREEK	NEAR MALTA, CO (LA	T 39 10 20	N LONG 106 2	3 19W)	
OCT 1996 04	0725	20	83	2.5	MAY 1997 29	1515	54	70	8.5
NOV 05	1230	20	85	0.0	JUN 03	1530	175	54	9.5
DEC 03	0905	6.2	93	0.0	JUL 02	1330	132	52	10.0
FEB 1997 06	0925	4.7	96	0.0	AUG		62	59	8.0
MAR	1230	4.8	99	0.0	06 SEP 09	1300 1445	27	77	11.0
06 APR		6.7			09	1445	27	//	11.0
02 30	1605 1530	11	91 86	2.0 8.0					
		07091200	) ARKAI	NSAS RIVER NI	EAR NATHROP, CO (LA	AT 38 39 08	3N LONG 106 (	03 02W)	
OCT 1996 03	0830	403	177	10.0	JUL 1997 01	0950	2680	83	11.5
APR 1997 01	1150	499	126	7.0	AUG 08	0840	1420	113	13.0
15	1530	349	152	11.0	SEP				
MAY 08	1130	543	155	10.5	02	1620	585	155	18.0
JUN 03	1230	3820	84	10.0					
	0709	93775 BAD	GER CREEK	, LOWER STAT	ION, NEAR HOWARD,	CO (LAT	38 28 02N LON	G 105 51 34V	W)
OCT 1996 01	1230	5.4	1070	17.5	JUL 1997 03	1300	5.6	1000	25.0
MAY 1997 06	1230	8.1	958	16.5	AUG 12	1330	5.6	964	26.0
JUN 06	1015	7.8	976	14.5	SEP 02	1300	4.8	980	25.0
		0709450			AT PARKDALE, CO (LA				
OCT 1996					JUL 1997			-	
01 MAR 1997	1200	447	300	14.0	01 24	1200 0915	3020 1640	130 160	15.0 17.0
21 MAY	1100	646	214	10.0	AUG 22	0940	1070	222	17.0
14 JUN	0950	1170	183	13.0	SEP 18	1025	504	270	16.5
04	1230 1530	4330 3900	120 120	14.0 14.0	10	-023	551	270	10.5

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	07096250	FOURMI	LE CREEK E	BELOW CRIPP	LE CREEK NEAR VICTO	OR, CO (LA	T 38 39 52N L	ONG 105 13	37W)
OCT 1996 10	1205	15	305	12.0	JUN 1997 12	1435	60	272	16.0
NOV 22	1230	8.6	360	6.5	JUL 17	1215	14	350	20.0
JAN 1997 31	1140	4.1	407	2.5	AUG 27	1230	18	315	20.5
MAR 14	1245	5.8	350	4.0	SEP 26	1055	10	290	14.0
MAY 27	1415	29	310	15.0	20	1033	10	250	11.0
27	1415								
NOV 1996		07096500	FOURMI	LE CREEK NE	EAR CANON CITY, CO (1 JUN 1997	LAT 38 26 1	I IN LONG 105	5 11 27W)	
12 FEB 1997	1210	37	710	8.0	09 JUL	1230	93	690	15.5
03 MAR	1230	13	1260	9.0	15 31	1320 1340	16 35	1020 950	22.0 22.0
20 APR	1305	3.2	1750	18.0	SEP 09	1345	13	1320	19.0
21 MAY	1525	6.4	1600	15.5	09	1343	13	1320	19.0
13	1225	25	1020	16.5					
	07099050 BE.	AVER CREE	K ABOVE U	PPER BEAVEI	R CEMETERY NEAR PE	NROSE, CC	(LAT 38 33 42	2N LONG 10	5 01 17W)
OCT 1996	1015	0.5	0.5	11.0	JUN 1997	1500	000		14.0
03 NOV	1215	26	86	11.0	09 24	1500 1150	202 150	76 77	14.0 16.0
21 MAR 1997	1335	13	86	6.0	JUL 15	1545	29	90	22.0
12 APR	1415	7.0	99	9.0	AUG 05	1545	133	85	17.0
21	1335 1520	22 54	100 118	9.5 8.5	SEP 15	1320	43	86	17.0
MAY 13	1610	99	100	12.0					
	0709906	0 BEAVE	ER CREEK A	BOVE HIGHW	VAY 115 NEAR PENROS	E, CO (LAT	38 29 21N LO	NG 104 59 4	9W)
OCT 1996					MAY 1997				
03 NOV	1530	0.02	190	19.5	15 JUN	1405	63	102	13.5
12 21	1550 1100	3.4 0.03	165 190	5.0 8.0	30 JUL	1515	33	97	20.0
MAR 1997 11	1340	0.13	370	13.0	31 SEP	1205	41	96	18.0
APR 28	1245	92	142	9.0	09	1540	5.5	111	17.5
		0709921	15 TURK	EY CREEK N	EAR FOUNTAIN, CO (LA	AT 38 36 42	N LONG 104 5	3 39W)	
OCT 1996					JUN 1997				
01 04	1005 0905	0.39 0.97	200 230	11.5 13.0	05 09	1000 1335	3.5 14	120 115	12.0 10.0
NOV 06	0945	0.15	325	3.0	18 JUL	1335	21	155	14.0
JAN 1997 03	1300	0.06	300	7.5	08 30	0950 1030	3.0 5.8	140 195	14.5 16.5
MAR 20	1000	0.15	250	10.0	AUG 27	0900	4.9	185	14.0
APR 29	1045	12	200	6.5					
	07099230	TURKEY CRI	EEK ABOVE	TELLER RES	ERVOIR NEAR STONE	CITY, CO (I	LAT 38 27 54N	I LONG 104	49 33W)
OCT 1996					JUN 1997				
29 DEC	1115	0.16	960	9.5	06 20	1125 1145	15 39	640 400	14.5 17.0
20 FEB 1997	0935	0.42	970	4.0	AUG 11	1340	15	520	20.0
13 APR	1430	0.92	970	7.5	SEP 02	1235	3.1	710	17.0
01 MAY	1215	0.88	950	9.5					
02	1315	15	480	11.0					

		MISCE	LLANEC	OSSIAIIO	IN ANAL I SES	Continue	u		
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
		07099233	TELLER I	RESERVOIR NE.	AR STONE CITY, CO	LAT 38 26	33N LONG 104	4 49 31W)	
JUN 1997					AUG 1997				
06 25	1325 1310	78 5.4	680 370	22.5 25.0	12	1430	11	490	25.0
		0700022	5 TUDIS	EV ODEEN NEA	D CTONE CITY CO A	ATT 20 26 26	NI LONG 104	40.2433	
OCT 1996		0709923	5 IUKK	E I CKEEK NEA	R STONE CITY, CO (L	AI 38 20 22	IN LUNG 104	49 34W)	
29	1245	0.11	1260	9.0	MAY 1997 05	1120	0.09	1420	13.5
DEC 13	1400	0.08	1320	8.0	19 JUN	1400	2.1	930	15.5
JAN 1997 30	1115	0.04	1420	4.5	06 JUL	1430	17	800	20.5
MAR 06	1220	0.07	1450	8.0	18 AUG	1220	0.46	740	
APR 01	1345	0.02	1480	10.5	12 SEP	1545	2.0	630	22.0
					24	1310	1.3	670	17.0
		07103703	CAMP CR	EEK AT GARDE	EN OF THE GODS, CO	(LAT 38 52	37N LONG 10	4 52 20W)	
APR 1997	0050	0.00	225	1 5	JUN 1997	1640	0.4	105	11 0
24 25	0950 1850	0.00	295 222	1.5	02 JUL	1640	2.4	185	11.0
26 27	1345 1520	0.09 0.29	221 225	3.0 10.0	10 AUG	0920	0.13	257	12.0
MAY 02	1230	7.5	252	8.0	13	0820	0.70	297	12.5
08	1410	14	140	8.5					
	07103797	WEST M	ONUMENT	CREEK BELOW	RAMPART RESERVO	OIR, CO (LA	T 38 58 30N L	ONG 104 57	18W)
OCT 1996					APR 1997				
08 NOV	1240	3.3	78	10.5	22 MAY	1330	4.2	73	15.0
08 DEC	1130	4.7	77	6.0	15 JUL	1130	5.7	80	6.5
10 JAN 1997	1100	1.1	80	3.5	01 AUG	1100	4.9	88	9.0
21 FEB	1030	4.3	72	2.0	12 SEP	1100	6.6	85	6.0
10 MAR	1030	5.3	68	2.5	15	1100	7.4	68	8.5
17	1100	3.8	74	3.0					
	071038	800 WEST	MONUME!	NT CREEK AT A	IR FORCE ACADEMY	, CO (LAT	38 58 14N LOI	NG 104 54 08	W)
OCT 1996					APR 1997				
08 NOV	1305	4.4	84	9.5	21 MAY	1530	0.94	95	4.5
20 DEC	1320	0.74	99	4.0	13 JUN	1540	8.6	73	5.5
06 JAN 1997	1040	0.58	96	1.0	09 JUL	1235	68	72	8.5
24 FEB	1430	0.12	98	0.0	14 AUG	1615	2.1	91	14.5
27 MAR	1340	0.33	95	0.5	07 SEP	1335	1.6	99	12.5
17	1510	5.3	76	4.0	18	1145	0.93	109	12.0
0710	03980 COT	TONWOOD C	CREEK AT W	OODMEN ROA	D NEAR COLORADO	SPRINGS, O	CO (LAT 38 56	22N LONG	104 44 26W)
OCT 1996 09	1415	0.79	603	18.5	MAY 1997 13	0840	0.90	586	10.0
NOV 13	0800	0.58	670	5.0	JUN 03	1505	0.47	590	25.5
DEC 06	1145	0.65	601	1.5	05 06 JUL	1205	0.47	545	25.0
JAN 1997 23	1515	1.0	622	1.5	14 29	1225 1235	0.50 0.60	576 514	27.0 19.0
FEB					AUG				
20 21	1355 1420	1.3	612 785	5.5 5.0	05 SEP	1535	3.1	348	18.5
MAR 18	1405	0.59	538	15.5	15	1230	0.52	568	25.5
APR 23	1600	0.56	616	10.5					

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
	0710	03990 COT	TONWOOD	CREEK AT MO	OUTH, AT PIKEVIEW,	CO (LAT 38	3 55 41N LONG	G 104 38 35W	7)
OCT 1996 09	1545	5.3	700	17.5	APR 1997 25	1500	56	278	6.5
NOV 13	0845	4.5	655	5.5	MAY 13	1105	5.8	568	19.0
DEC 06	1305	4.3	728	1.5	JUN 06	0955	5.0	565	18.5
JAN 1997 24	1145	5.0	697	0.0	JUL 10	1455	5.2	639	29.5
FEB					29	1050	6.8	581	18.0
27 MAR	1500	6.2	670	5.5	SEP 05	1110	5.9	642	26.0
19	1345	4.3	660	18.5					
		07105000	BEAR CRE	EEK NEAR COLO	ORADO SPRINGS, CO	(LAT 38 49	21N LONG 10	04 53 17W)	
OCT 1996 02	1410	2.9	100	8.5	MAY 1997 06	1130	9.6	93	5.5
NOV 08	1340	1.8	92	2.0	JUN 10	1700	63	110	8.5
DEC 16	1400	1.6	91	0.0	13 JUL	1330	27	100	8.0
JAN 1997 21	1230	1.2	91	1.5	08 21	1000 1300	6.1 5.3	83 81	10.0 13.0
FEB 10	1300	1.3	79	0.5	AUG 12	1345	8.3	80	11.5
MAR 17	1330	1.3	89	4.0	SEP 24	1530	3.4	85	12.5
APR 02	1215	1.4	85	1.5					
	07105490	CHEYENNE	CREEK AT	Γ EVANS AVE A	T COLORADO SPRIN	IGS, CO (LA	T 38 47 26N L	ONG 104 51	49W)
OCT 1996 02	1525	9.9	73	10.0	MAY 1997 06	1305	57	92	6.5
	1525 1445	9.9	73 119	10.0		1305 1345	57 36	92 87	
02 NOV 08 DEC	1445	3.7	119	4.0	06 15 JUN 03	1345 1235	36 30	87 84	6.5 9.0 12.0
02 NOV 08 DEC 16 JAN 1997	1445 1500	3.7 4.7	119 114	4.0	06 15 JUN 03 10	1345	36	87	6.5
02 NOV 08 DEC 16 JAN 1997 21 FEB	1445 1500 1330	3.7 4.7 2.3	119 114 119	4.0 0.0 0.5	06 15 JUN 03 10 13 JUL 01	1345 1235 1515 1215	36 30 437 172 31	87 84 91	6.5 9.0 12.0 8.5 9.0
02 NOV 08 DEC 16 JAN 1997 21 FEB 10	1445 1500 1330 1400	3.7 4.7 2.3 3.0	119 114 119 111	4.0 0.0 0.5 2.0	06 15 JUN 03 10 13 JUL 01 21 AUG	1345 1235 1515 1215 1430 1445	36 30 437 172 31 20	87 84 91 89 83 105	6.5 9.0 12.0 8.5 9.0 11.0 14.0
02 NOV 08 DEC 16 JAN 1997 21 FEB 10 MAR 17 APR	1445 1500 1330 1400 1430	3.7 4.7 2.3 3.0 3.6	119 114 119 111 79	4.0 0.0 0.5 2.0 5.5	06 15 JUN 03 10 13 JUL 01 21 AUG 12 SEP	1345 1235 1515 1215 1430 1445	36 30 437 172 31 20 46	87 84 91 89 83 105	6.5 9.0 12.0 8.5 9.0 11.0 14.0
02 NOV 08 DEC 16 JAN 1997 21 FEB 10 MAR 17	1445 1500 1330 1400	3.7 4.7 2.3 3.0	119 114 119 111	4.0 0.0 0.5 2.0	06 15 JUN 03 10 13 JUL 01 21 AUG 12	1345 1235 1515 1215 1430 1445	36 30 437 172 31 20	87 84 91 89 83 105	6.5 9.0 12.0 8.5 9.0 11.0 14.0
02 NOV 08 DEC 16 JAN 1997 21 FEB 10 MAR 17 APR	1445 1500 1330 1400 1430	3.7 4.7 2.3 3.0 3.6	119 114 119 111 79 90	4.0 0.0 0.5 2.0 5.5 7.0	06 15 JUN 03 10 13 JUL 01 21 AUG 12 SEP	1345 1235 1515 1215 1430 1445 1530 1245	36 30 437 172 31 20 46 9.2	87 84 91 89 83 105 101	6.5 9.0 12.0 8.5 9.0 11.0 14.0
02 NOV 08 DEC 16 JAN 1997 21 FEB 10 MAR 17 APR	1445 1500 1330 1400 1430	3.7 4.7 2.3 3.0 3.6 6.2	119 114 119 111 79 90	4.0 0.0 0.5 2.0 5.5 7.0	06 15 JUN 03 10 13 JUL 01 21 AUG 12 SEP 24	1345 1235 1515 1215 1430 1445 1530 1245	36 30 437 172 31 20 46 9.2	87 84 91 89 83 105 101	6.5 9.0 12.0 8.5 9.0 11.0 14.0
02 NOV 08 DEC 16 JAN 1997 21 FEB 10 MAR 17 APR 22  OCT 1996 03 NOV 05	1445 1500 1330 1400 1430 1515	3.7 4.7 2.3 3.0 3.6 6.2	119 114 119 111 79 90 JIMMY	4.0 0.0 0.5 2.0 5.5 7.0	06 15 JUN 03 10 13 JUL 01 21 AUG 12 SEP 24 AT FOUNTAIN, CO (I	1345 1235 1515 1215 1430 1445 1530 1245 LAT 38 41 04	36 30 437 172 31 20 46 9.2	87 84 91 89 83 105 101 105	6.5 9.0 12.0 8.5 9.0 11.0 14.0 13.5 14.0
02 NOV 08 DEC 16 JAN 1997 21 FEB 10 MAR 17 APR 22  OCT 1996 03 NOV 05 JAN 1997	1445 1500 1330 1400 1430 1515	3.7 4.7 2.3 3.0 3.6 6.2 07105900 2.2 1.8	119 114 119 111 79 90 JIMMY 2100 3060	4.0 0.0 0.5 2.0 5.5 7.0 CAMP CREEK	06 15 JUN 03 10 13 JUL 01 21 AUG 12 SEP 24 AT FOUNTAIN, CO (I  JUN 1997 03 30 JUL 08	1345 1235 1515 1215 1430 1445 1530 1245 LAT 38 41 04 1230 1405 1350	36 30 437 172 31 20 46 9.2 2.2 1.6 2.0	87 84 91 89 83 105 101 105 41 17W) 2720 2510 2720	6.5 9.0 12.0 8.5 9.0 11.0 14.0 13.5 14.0
02 NOV 08 DEC 16 JAN 1997 21 FEB 10 MAR 17 APR 22  OCT 1996 03 NOV 05	1445 1500 1330 1400 1430 1515	3.7 4.7 2.3 3.0 3.6 6.2 07105900 2.2	119 114 119 111 79 90 JIMMY	4.0 0.0 0.5 2.0 5.5 7.0 CAMP CREEK	06 15 JUN 03 10 13 JUL 01 21 AUG 12 SEP 24 AT FOUNTAIN, CO (I	1345 1235 1515 1215 1430 1445 1530 1245 LAT 38 41 04 1230 1405	36 30 437 172 31 20 46 9.2 4N LONG 104	87 84 91 89 83 105 101 105 41 17W)	6.5 9.0 12.0 8.5 9.0 11.0 14.0 13.5 14.0
02 NOV 08 DEC 16 JAN 1997 21 FEB 10 MAR 17 APR 22  OCT 1996 03 NOV 05 JAN 1997 02 MAR	1445 1500 1330 1400 1430 1515	3.7 4.7 2.3 3.0 3.6 6.2 07105900 2.2 1.8 1.8	119 114 119 111 79 90 JIMMY 2100 3060 3020	4.0 0.0 0.5 2.0 5.5 7.0 CAMP CREEK	06 15 JUN 03 10 13 JUL 01 21 AUG 12 SEP 24 AT FOUNTAIN, CO (I  JUN 1997 03 30 JUL 08 30 SEP	1345 1235 1515 1215 1430 1445 1530 1245 LAT 38 41 04 1230 1405 1350 1815	36 30 437 172 31 20 46 9.2 4N LONG 104 2.2 1.6 2.0 4.0	87 84 91 89 83 105 101 105 41 17W) 2720 2510 2720 1880	6.5 9.0 12.0 8.5 9.0 11.0 14.0 13.5 14.0
02 NOV 08 DEC 16 JAN 1997 21 FEB 10 MAR 17 APR 22  OCT 1996 03 NOV 05 JAN 1997 02 MAR 18 MAY 01	1445 1500 1330 1400 1430 1515 1045 0915 1400 1425 1025	3.7 4.7 2.3 3.0 3.6 6.2 07105900 2.2 1.8 1.8 1.6 2.5	119 114 119 111 79 90 JIMMY 2100 3060 3020 2670 2080	4.0 0.0 0.5 2.0 5.5 7.0 CAMP CREEK.	06 15 JUN 03 10 13 JUL 01 21 AUG 12 SEP 24  AT FOUNTAIN, CO (I  JUN 1997 03 30 JUL 08 30 SEP 24	1345 1235 1515 1215 1430 1445 1530 1245 LAT 38 41 04 1230 1405 1350 1815 1305	36 30 437 172 31 20 46 9.2 IN LONG 104 2.2 1.6 2.0 4.0 1.7	87 84 91 89 83 105 101 105 41 17W) 2720 2510 2720 1880 2380	6.5 9.0 12.0 8.5 9.0 11.0 14.0 13.5 14.0
02 NOV 08 DEC 16 JAN 1997 21 FEB 10 MAR 22  OCT 1996 03 NOV 05 JAN 1997 02 MAR 18 MAY 01	1445 1500 1330 1400 1430 1515 1045 0915 1400 1425 1025	3.7 4.7 2.3 3.0 3.6 6.2 07105900 2.2 1.8 1.8 1.6 2.5	119 114 119 111 79 90 JIMMY 2100 3060 3020 2670 2080	4.0 0.0 0.5 2.0 5.5 7.0 CAMP CREEK.	06 15 JUN 03 10 13 JUL 01 21 AUG 12 SEP 24  AT FOUNTAIN, CO (I  JUN 1997 03 30 JUL 08 30 SEP 24	1345 1235 1515 1215 1430 1445 1530 1245 LAT 38 41 04 1230 1405 1350 1815 1305	36 30 437 172 31 20 46 9.2 IN LONG 104 2.2 1.6 2.0 4.0 1.7	87 84 91 89 83 105 101 105 41 17W) 2720 2510 2720 1880 2380	6.5 9.0 12.0 8.5 9.0 11.0 14.0 13.5 14.0
02 NOV 08 DEC 16 JAN 1997 21 FEB 10 MAR 17 APR 22  OCT 1996 03 NOV 05 JAN 1997 02 MAR 18 MAY 01  0710592  OCT 1996 01	1445 1500 1330 1400 1430 1515 1045 0915 1400 1425 1025	3.7 4.7 2.3 3.0 3.6 6.2 07105900 2.2 1.8 1.8 1.6 2.5	119 114 119 111 79 90 JIMMY 2100 3060 3020 2670 2080	4.0 0.0 0.5 2.0 5.5 7.0 CAMP CREEK.	06 15 JUN 03 10 13 JUL 01 21 AUG 12 SEP 24  AT FOUNTAIN, CO (I  JUN 1997 03 30 JUL 08 30 SEP 24  RESERVOIR, NEAR FO	1345 1235 1515 1215 1430 1445 1530 1245  LAT 38 41 04 1230 1405 1350 1815 1305  ORT CARSO 1310	36 30 437 172 31 20 46 9.2 4N LONG 104 2.2 1.6 2.0 4.0 1.7	87 84 91 89 83 105 101 105 41 17W) 2720 2510 2720 1880 2380 88 40 54N LO	6.5 9.0 12.0 8.5 9.0 11.0 14.0 13.5 14.0 23.5 28.5 22.5 21.5 22.5
02 NOV 08 DEC 16 JAN 1997 21 FEB 10 MAR 17 APR 22  OCT 1996 03 NOV 05 JAN 1997 02 MAR 18 MAY 01  0710592 OCT 1996 01 NOV 06	1445 1500 1330 1400 1430 1515 1045 0915 1400 1425 1025	3.7 4.7 2.3 3.0 3.6 6.2 07105900 2.2 1.8 1.8 1.6 2.5	119 114 119 111 79 90 JIMMY 2100 3060 3020 2670 2080  CREEK AB	4.0 0.0 0.5 2.0 5.5 7.0 CAMP CREEK. 14.5 8.5 14.0 18.5 12.5	06 15 JUN 03 10 13 JUL 01 21 AUG 12 SEP 24  AT FOUNTAIN, CO (I  JUN 1997 03 30 JUL 08 30 SEP 24  RESERVOIR, NEAR FO  JUN 1997 04 09 18	1345 1235 1515 1215 1430 1445 1530 1245  LAT 38 41 04 1230 1405 1350 1815 1305  ORT CARSO	36 30 437 172 31 20 46 9.2 N LONG 104 2.2 1.6 2.0 4.0 1.7	87 84 91 89 83 105 101 105 41 17W) 2720 2510 2720 1880 2380 88 40 54N LO	6.5 9.0 12.0 8.5 9.0 11.0 14.0 13.5 14.0 23.5 28.5 22.5 21.5 22.5
02 NOV 08 DEC 16 JAN 1997 21 FEB 10 MAR 17 APR 22  OCT 1996 03 NOV 05 JAN 1997 02 MAR 18 MAY 01  0710592 OCT 1996 01 NOV	1445 1500 1330 1400 1430 1515 1045 0915 1400 1425 1025 20 LITTI	3.7 4.7 2.3 3.0 3.6 6.2 07105900 2.2 1.8 1.6 2.5 LE FOUNTAIN	119 114 119 111 79 90 JIMMY 2100 3060 3020 2670 2080  CREEK AB	4.0 0.0 0.5 2.0 5.5 7.0 CAMP CREEK A 14.5 8.5 14.0 18.5 12.5 OVE KEATON F	06 15 JUN 03 10 13 JUL 01 21 AUG 12 SEP 24  AT FOUNTAIN, CO (I  JUN 1997 03 30 JUL 08 30 SEP 24  RESERVOIR, NEAR FOUN 1997 04 09	1345 1235 1515 1215 1430 1445 1530 1245  LAT 38 41 04 1230 1405 1350 1815 1305  ORT CARSO 1310 1005	36 30 437 172 31 20 46 9.2 4N LONG 104 2.2 1.6 2.0 4.0 1.7  ON, CO (LAT 3	87 84 91 89 83 105 101 105 41 17W) 2720 2510 2720 1880 2380 88 40 54N LO	6.5 9.0 12.0 8.5 9.0 11.0 14.0 13.5 14.0 23.5 28.5 22.5 21.5 22.5 21.5 22.5

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
	07	105928 LIT	TLE FOUN	ΓAIN CREEK NE	EAR FORT CARSON, C	CO (LAT 38	40 49N LONG	104 51 08W	)
OCT 1996 01 NOV	1155	1.6	285	12.5	APR 1997 29 JUN	1425	14	105	6.0
06 JAN 1997	1325	0.58	295	5.5	05 18	1405 1220	11 45	161 90	12.0 10.0
03 MAR	1200	0.59	154	4.0	JUL 10	1050	0.48	260	15.0
20	1355	1.6	140	7.0	30	1320	23	84	16.0
	07105	5945 ROCK	CREEK AI	BOVE FORT CAI	RSON RESERVATION,	, CO (LAT 3	38 42 26N LON	NG 104 50 47	W)
OCT 1996 02 NOV	1000	1.3	105	9.0	JUN 1997 06	1315	3.8	126	13.5
05 JAN 1997	1355	0.52	115	6.0	24 JUL 10	1415 1330	13 3.1	124 153	13.5 16.5
03 MAR	0930	0.55	162	3.0	17 30	1330 1330 1545	1.7	163 136	17.0 16.0
19 APR	1320	0.55	142	7.0	AUG 05	1040	9.3	148	14.0
30	1350	22	125	5.5	05	1040	9.3	140	14.0
		07105950	ROCK	CREEK NEAR F	ORT CARSON, CO (LA	AT 38 41 49	N LONG 104	19 39W)	
OCT 1996 02	0905	0.01	205	12.0	JUN 1997 05	1255	3.2	180	12.0
NOV 07	1215	0.11	238	10.0	18 JUL	1615	28	128	13.5
APR 1997 30	1110	26	105	5.5	10 30	1600 1645	2.1	168 167	16.0 16.5
					AUG 05	1225	7.0	152	15.0
		07108900	ST. CH	ARLES RIVER A	AT VINELAND, CO (LA	AT 38 14 44	N LONG 104 2	29 09W)	
OCT 1996 01	1645	15	1960	21.0	APR 1997 09	1315	14	1760	13.0
NOV 13	1320	19	1990	11.5	MAY 05	1515	144	527	17.5
DEC 11	1545	19	1800	9.0	JUN 19	1300	42	1260	24.5
JAN 1997 21	1505	16	2020	6.5	JUL 09	1515	15	1770	27.0
FEB 27	1545	14	1860	6.5	23 SEP	1535	9.8	1760	30.5
MAR 20	1315	19	1450	17.0	04	1645	15	2100	24.5
	07	7110400 CHI	CO CREEK	NEAR PUEBLO	CHEMICAL DEPOT, O	CO (LAT 38	21 40N LONG	3 104 23 15W	")
APR 1997	1240	2.0	1000	02.0	JUL 1997	1015	0.00	1.440	01 5
28 MAY	1340	3.8	1900	23.0	02 30	1015 1300	0.02 236	1440 391	21.5
02 05	1545 1515	1.1	1840 1790	17.0 21.5	31 AUG	1535	10		29.0
13	1200 1100	0.51 0.26	1680 1600	22.0 21.5	06 22	1125 1105	107 0.07	491 1370	18.5 26.0
JUN 09	0835	25	1100	16.0	SEP 10	1040	0.03	1420	21.5
09 17	1450 1210	12	1420 1510	20.0 27.5					
23 26	1045 1145	0.05 48	1590 678	24.5 20.5					
		0711650	00 HUEI	RFANO RIVER N	NEAR BOONE, CO (LA	T 38 13 30N	N LONG 104 1:	5 37W)	
OCT 1996 01	1500	3.8	3340	27.5	APR 1997	1130	4.6	5070	14.5
23 NOV	1500 1430	3.8	4850	17.5	09 MAY 02	1345	4.6 81	1570	14.5
13 DEC	1545	27	1410	11.0	27 JUN	1345	72	1530	19.0
11 JAN 1997	1400	18	2820	10.0	09 18	1415 1625	163 15	1040 3010	19.0 32.0
28 FEB	1015	4.4	4850	0.5	JUL 09	1340	0.81	5380	30.5
18 MAR	1630	5.2	4920	14.0	23 SEP	1720	0.61	4700	32.0
12	1245	4.6	5080	20.5	03	1825	2.5	3440	25.5

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		071195	500 APISI	HAPA RIVER N	EAR FOWLER, CO (LA	T 38 05 281	N LONG 103 5	8 52W)	
OCT 1996					APR 1997				
01 22	1230 1300	12 22	1830 1660	18.5 7.5	08 22	1225 1115	12 13	1220 1130	7.5 11.5
NOV 13	1030	12	1870	6.5	MAY 13	1130	8.4	1600	17.5
DEC					JUN				
10 31	1430 1425	3.9 3.9	2840 2870	11.0 11.0	18 JUL	1415	18	1170	23.5
JAN 1997 27	1400	3.2	3090	5.0	09 23	1015 1315	11 9.0	1470 1630	19.0 26.0
FEB 18	1445	2.8	2920	13.0	AUG 19	1315	21	1440	23.0
MAR 12	1045	3.0	2950	9.5	SEP 04	1440	13	1740	25.5
21	1205	17	1140	13.0					
		07121500	TIMPAS C	REEK AT MOU	TH NEAR SWINK, CO	(LAT 38 00	11N LONG 10	3 39 20W)	
OCT 1996	0010	105	1700	12.0	MAY 1997	1.400		1040	10.0
09 23	0910 0940	105 124	1790 1800	13.0 6.0	13 27	1400 1745	57 66	1940 1770	19.0 19.0
NOV 12	1545	116	1690	8.5	JUN 11	1645	164	1140	23.5
DEC 11	1000	22	2890	9.0	JUL 01	1515	55	1920	24.0
JAN 1997 24	1515	18	3000	5.5	23 AUG	1045	69	1860	21.0
FEB 04	1415	15	2910	10.0	05 08	1500 1025	300 171	1140 1330	22.5 20.0
25 MAR	1500	15	2950	11.0	20 SEP	1445	63	1720	24.0
11 APR	1630	76	1550	13.0	03 16	1145 1800	71 55	1990 2250	20.0 21.5
08	1700 1210	43 75	1880 1560	11.5 16.0	10	1000	33	2230	21.5
		071243	000 PUD	CATOIDE DIVE		T 27 07 46N	NI ONG 104.2	9 20W/)	
		071242	200 PURC	JATOIKE KIVEI	R AT MADRID, CO (LA	11 3/ 0/ 401	N LONG 104 3	8 20W)	
OCT 1996 03	0825	22	353	9.0	JUN 1997 02	1015	379	193	11.5
NOV 08	1130	23	389	3.5	06 16	0755 1710	444 366	180 203	10.0 13.0
DEC 11	1200	19	398	5.0	JUL 01	1205	171	228	17.5
JAN 1997 30	1600	21	447	0.0	18 AUG	0855	63	299	15.0
MAR 14	1100	22	390	2.5	01 12	1220 0900	132 172	293 286	22.5 15.5
APR 30	1550	117	293	17.0	20 SEP	0905	84	295	16.5
					02	1255	59	343	22.0
	0	7124410 F	URGATOIRI	E RIVER BELOV	W TRINIDAD LAKE, C	O (LAT 37 (	08 37N LONG	104 32 49W)	
NOV 1996					JUN 1997				
08 DEC	1345	0.37	370	6.5	02 04	1200 0855	304 273	293 297	13.5 13.5
11 JAN 1997	1440	0.28	377	3.5	05 05	0730 1915	256 284	297 300	14.0 14.5
31 MAR	0950	0.60	447	4.5	17 JUL	0830	212	246	14.5
14 MAY	0930	0.09	400	4.5	18 AUG	1130	154	262	19.0
02	0915	8.8	396	9.5	01	0920	151	278	19.0
14	1230	197	390	11.5	12 SEP	1045	4.7	259	18.5
					02	1505	233	284	19.0
		07128500	PURGATO	OIRE RIVER NE	AR LAS ANIMAS, CO	(LAT 38 02	02N LONG 10	3 12 00W)	
OCT 1996 10	1425	67	2910	18.0	APR 1997 08	1500	10	4750	10.0
NOV 13	1600	74	2940	7.0	MAY 08	1400	14	4000	17.0
19 DEC	1300	35	4020	9.5	JUN 06	0945	230	1550	20.5
12 JAN 1997	1200	37	4070	6.0	JUL 02	1040	8.2	3980	21.5
21 FEB	1225	41	3900	0.5	AUG 05	1600	90	1190	23.0
11 MAR	1430	30	3840	4.5	SEP 17	1115	28	2590	19.5
13	1430	16	4360	10.5	±1	1113	20	2390	17.5

		MISCE	LLANE	JUSSIAIN	JN ANAL I SESC	Jonunu	eu		
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		0713	3000 AR	KANSAS RIVE	R AT LAMAR, CO (LAT	Г 38 06 21 М	N LONG 102 37	7 05W)	
OCT 1996	1020	26	21.60	14 5	APR 1997	1405	36	2060	10 5
10 NOV 13	1030 1305	26 59	3160 3600	14.5 9.5	16 MAY 21	1405 1150	36 60	2860 2920	18.5 19.0
DEC 16	1420	60	4120	4.5	JUN 19	1030	18	3280	22.0
JAN 1997 22	1245	67	4270	7.0	JUL 16	0830	733	2140	20.0
FEB 21	1100	50	4280	6.0	AUG 12	1445	3250	432	20.0
MAR 19	0945	5.9	3930	9.5	SEP 23	1645	112	2850	18.0
17	0313	3.3	3330	J. J	23	1015	112	2030	10.0
		071341	00 BIG S	SANDY CREEK	NEAR LAMAR, CO (LA	AT 38 06 5	IN LONG 102	29 00W)	
OCT 1996 10	0740	11	4600	11.5	APR 1997 16	1045	17	3800	11.5
NOV 13	1055	11	4480	7.0	MAY 21	1015	13	4420	14.5
DEC 16	1530	24	4580	3.0	JUN 19	0715	17	3990	18.0
JAN 1997 22	1040	25	4350	1.0	JUL 16	0630	18	4100	18.0
FEB 20	1430	23	4300	9.5	AUG 26	1700	21	4190	26.0
MAR 18	1705	25	4400	14.0	SEP 23	1445	23	4270	16.5
		07134180	) ARKA	NSAS RIVER N	EAR GRANADA, CO (L		14N I ONG 102	18 37W)	
OCT 1996		0/154100	) /IKK/I	NSAS RIVER IV	APR 1997	211 30 03 -	HIV LOING 102	. 10 37 11)	
09 NOV	1500	118	3830	19.0	16 MAY	0905	90	3910	11.0
13 DEC	0915	118	3880	5.5	21 JUN	0800	149	3370	15.0
17 JAN 1997	0905	110	4210	0.0	18 JUL	1605	84	3750	27.0
22 FEB	0815	152	4200	3.5	16 AUG	1645	691	2280	25.5
20 MAR	1630	140	4170	11.0	13 SEP	1330	3470	812	22.5
18	1535	114	4070	15.0	24	1210	183	3460	15.5
		07134990	) WILD	HORSE CREEK	ABOVE HOLLY, CO (L	AT 38 03 2	24N LONG 102	2 08 16W)	
OCT 1996 09	1315	22	3750	16.0	JUN 1997	1430	9.0	3600	26.0
NOV 12	1445	20	4060	7.0	18 JUL 16	1430	7.1	3260	29.0
APR 1997 29	1720	11	3700	21.5	AUG 07	1300	81	2190	20.5
MAY 20	1615	6.9	3730	23.5	SEP 24	1005	102	3160	14.0
20	1013	0.9	3730	23.3	24	1003	102	3100	14.0
		071350	00 TWO	BUTTE CREEK	NEAR HOLLY, CO (LA	AT 38 01 4	IN LONG 102	08 21W)	
AUG 1997 07	1130	7.6	211	19.0	AUG 1997 13	0915	9.0	167	21.0
		08217500	RIO GR	ANDE AT WAG	ON WHEEL GAP, CO (	LAT 37 46	01N LONG 10	06 49 51W)	
OCT 1996					APR 1997				
03 NOV	1750	282	85	10.0	17 JUN	0940	275	97	6.0
08 DEC	1210	114	104	0.5	02 JUL	1545	4200	47	9.5
13 JAN 1997	1210	110	103	0.5	16 AUG	1625	1600	50	13.5
24 MAR	1145	109	105	0.0	28	0940	652	71	14.0
19	1205	155	100	1.0					

## KIT CARSON COUNTY

## 391730102422000 SC00904706CAC

LOCATION.--Lat 39°17'30", long 102°41'59", in SW¹/4NE¹/4SW¹/4 sec.6, T.9 S., R.47 W., Kit Carson County, Hydrologic Unit 10250003, 2.3 mi east of Interstate Highway 70 interchange to Vona, Colo.

AQUIFER .-- High Plains Aquifer.

WELL CHARACTERISTICS .-- Drilled, unused well, diameter 16 in., depth 160 ft.

INSTRUMENTATION .-- Water-level recorder; intermittent measurements with chalked steel tape.

DATUM.--Elevation of land-surface datum is 4475 ft above sea level, from topographic map. Measuring point: top of 1/4-in. diameter hole in steel plate that covers well casing, 1.00 ft above land-surface datum.

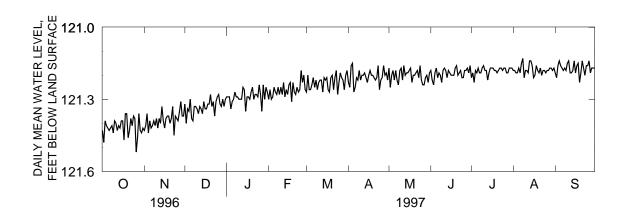
REMARKS .-- Daily record is good.

PERIOD OF RECORD.--Daily record from September 1988 to current year. Intermittent measurements made from December 1968.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 121.08 ft below land-surface datum, Aug. 13, 1997, and Sept. 15, 1997; lowest, 125.56 ft below land-surface datum, Jan. 20, 1976.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121.43	121.43	121.32	121.29	121.30	121.27	121.23	121.17	121.18	121.21	121.18	121.19
2	121.48	121.41	121.40	121.29	121.26	121.20	121.25	121.25	121.22	121.19	121.18	121.21
3	121.39	121.36	121.34	121.29	121.30	121.26	121.16	121.20	121.24	121.23	121.19	121.16
4	121.41	121.44	121.35	121.34	121.29	121.26	121.15	121.18	121.19	121.18	121.19	121.14
5	121.42	121.39	121.30	121.31	121.25	121.24	121.27	121.22	121.17	121.19	121.17	121.16
6 7 8 9 10	121.43 121.42 121.41 121.44 121.39	121.42 121.41 121.39 121.41 121.38	121.38 121.39 121.33 121.33	121.30 121.27 121.29 121.29 121.30	121.27 121.28 121.25 121.28 121.25	121.21 121.25 121.22 121.26 121.23	121.25 121.21 121.22 121.18 121.22	121.18 121.22 121.24 121.18 121.17	121.21 121.19 121.20 121.23 121.18	121.17 121.19 121.19 121.17 121.16	121.19 121.15 121.13 121.21 121.18	121.17 121.18 121.17 121.18 121.15
11	121.40	121.42	121.36	121.30	121.28	121.22	121.20	121.22	121.17	121.18	121.18	121.14
12	121.43	121.38	121.33	121.30	121.23	121.22	121.20	121.16	121.18	121.18	121.19	121.19
13	121.41	121.40	121.34	121.25	121.29	121.27	121.19	121.20	121.21	121.22	121.14	121.19
14	121.42	121.33	121.36	121.26	121.26	121.21	121.21	121.19	121.18	121.19	121.14	121.18
15	121.39	121.39	121.31	121.35	121.28	121.22	121.23	121.19	121.19	121.17	121.16	121.14
16	121.39	121.42	121.34	121.29	121.24	121.21	121.20	121.18	121.20	121.17	121.21	121.19
17	121.47	121.38	121.34	121.29	121.23	121.26	121.18	121.17	121.20	121.17	121.20	121.16
18	121.36	121.37	121.32	121.30	121.31	121.27	121.20	121.23	121.20	121.18	121.16	121.15
19	121.36	121.37	121.32	121.27	121.23	121.21	121.20	121.20	121.17	121.18	121.18	121.23
20	121.46	121.40	121.28	121.25	121.27	121.20	121.21	121.20	121.16	121.19	121.19	121.19
21	121.43	121.38	121.33	121.30	121.28	121.26	121.22	121.19	121.20	121.18	121.17	121.14
22	121.38	121.33	121.31	121.28	121.25	121.21	121.21	121.18	121.19	121.17	121.20	121.17
23	121.41	121.45	121.37	121.28	121.27	121.18	121.16	121.21	121.18	121.17	121.18	121.20
24	121.37	121.37	121.31	121.29	121.26	121.28	121.26	121.16	121.21	121.18	121.18	121.16
25	121.38	121.38	121.29	121.24	121.18	121.23	121.22	121.22	121.21	121.17	121.19	121.16
26 27 28 29 30 31	121.52 121.46 121.36 121.43 121.44 121.42	121.39 121.35 121.31 121.37 121.37	121.28 121.32 121.33 121.30 121.33 121.30	121.28 121.35 121.24 121.30 121.25 121.27	121.23 121.20 121.26	121.19 121.21 121.22 121.26 121.20 121.18	121.21 121.16 121.20 121.19 121.22	121.24 121.24 121.21 121.20 121.23 121.19	121.18 121.18 121.17 121.19 121.16	121.17 121.19 121.19 121.17 121.17	121.18 121.18 121.17 121.17 121.18 121.17	121.14 121.19 121.17 121.17 121.17
MEAN	121.42	121.39	121.33	121.29	121.26	121.23	121.21	121.20	121.19	121.18	121.18	121.17
MAX	121.52	121.45	121.40	121.35	121.31	121.28	121.27	121.25	121.24	121.23	121.21	121.23
MIN	121.36	121.31	121.28	121.24	121.18	121.18	121.15	121.16	121.16	121.16	121.13	121.14



## **EL PASO COUNTY**

# 384056104415601 - SC01606505CCB - FOUNTAIN NO. 3

 $LOCATION.--Lat~38^{o}40'56", long~104^{o}41'56" in NW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4SW^{1}/4S$ 

WELL CHARACTERISTICS.--Municipal well, diameter 16 in., depth 53 ft, screened 38 to 53 ft.

DATUM.--Elevation of land-surface datum is 5,540 ft above sea level, from topographic map.

PERIOD OF RECORD.--March 1985 to current year.

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

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	
MAR 12	0925	1150	7.2	12.5	<0.01	2.5	<0.015	0.01	
SEP 09	0915	1200	7.3	13.0	<0.01	3.2	<0.015	<0.01	

## 384108104420701 - SC01606506DAA - FOUNTAIN NO. 2

LOCATION.--Lat 38°41′08", long 104°42′07", NE¹/4NE¹/4SE¹/4 sec.6, T.16 S., R.65 W., in El Paso County, Hydrologic Unit 11020003. AQUIFER.--Fountain Creek Alluvial Aquifer.

WELL CHARACTERISTICS.--Municipal well, diameter 16 in., depth 57 ft, screened 42 to 57 ft.

DATUM.--Elevation of land-surface datum is 5,550 ft above sea level, from topographic map.

PERIOD OF RECORD.--March 1985 to current year.

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

					NITRO-	NITRO-	NITRO-	PHOS-
		SPE-			GEN,	GEN,	GEN,	PHORUS
		CIFIC			NITRITE	NO2+NO3	AMMONIA	ORTHO,
		CON-	pН	TEMPER-	DIS-	DIS-	DIS-	DIS-
		DUCT-	(STAND-	ATURE	SOLVED	SOLVED	SOLVED	SOLVED
DATE	TIME	ANCE	ARD	WATER	(MG/L	(MG/L	(MG/L	(MG/L
		(US/CM)	UNITS)	(DEG C)	AS N)	AS N)	AS N)	AS P)
		(00095)	(00400)	(00010)	(00613)	(00631)	(00608)	(00671)
MAR								
12	0945	1280	7.4	13.0	<0.01	3.1	0.020	0.02
SEP								
09	0945	1280	7.2	12.5	<0.01	2.3	<0.015	<0.01

# 384407104434801 - SC01506624BAD1 - WIDEFIELD NO. 4

LOCATION.--Lat 38°44′07", long 104°43′48", in SE¹/4NE¹/4NE¹/4 sec.24, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003. AQUIFER.--Widefield Aquifer of Fountain Creek Alluvium.

WELL CHARACTERISTICS.--Municipal well, diameter 16 in., depth 71 ft, screened 41 to 71 ft.

DATUM.--Elevation of land-surface datum is 5,680.7 ft above sea level.

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

					NITRO-	NITRO-	NITRO-	PHOS-
		SPE-			GEN,	GEN,	GEN,	PHORUS
		CIFIC			NITRITE	NO2+NO3	AMMONIA	ORTHO,
		CON-	pН	TEMPER-	DIS-	DIS-	DIS-	DIS-
		DUCT-	(STAND-	ATURE	SOLVED	SOLVED	SOLVED	SOLVED
DATE	TIME	ANCE	ARD	WATER	(MG/L	(MG/L	(MG/L	(MG/L
		(US/CM)	UNITS)	(DEG C)	AS N)	AS N)	AS N)	AS P)
		(00095)	(00400)	(00010)	(00613)	(00631)	(00608)	(00671)
FEB								
26	0955	641	7.2	12.5	<0.01	5.8	<0.015	0.02
SEP								
09	1015	630	7.2	13.5	<0.01	5.4	<0.015	<0.01

## 384433104440702 - SC01506613CBD2 - U-14

 $LOCATION.--Lat~38^{o}44'33", long~104^{o}44'07", in~SW^{1}/4NW^{1}/4SE^{1}/4~sec. 13,~T.15~S.,~R.66~W.,~El~Paso~County,~Hydrologic~Unit~11020003.$ 

AQUIFER .-- Widefield Aquifer of Fountain Creek Alluvium.

WELL CHARACTERISTICS .-- Monitor well, diameter 2 in., depth 47 ft, screened 43 to 46 ft.

DATUM.--Elevation of land-surface datum is 5,701 ft above sea level.

PERIOD OF RECORD.--October 1992 to current year.

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

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
MAR 07	1340	31.90	623	7.1	13.5	0.01	5.2	<0.015	0.02
SEP 08	1430	32.68	663	7.2	13.5	<0.01	4.6	<0.015	<0.01

## 384458104442601 - SC01506614AAD - SECURITY NO. 2

 $LOCATION.--Lat\ 38^{o}44'58",\ long\ 104^{o}44'26",\ in\ SE^{1/4}NE^{1/4}NE^{1/4}sec.14,\ T.15\ S.,\ R.66\ W.,\ El\ Paso\ County,\ Hydrologic\ Unit\ 11020003.$ 

AQUIFER .-- Widefield Aquifer of Fountain Creek Alluvium.

WELL CHARACTERISTICS.--Municipal well, diameter 24 in., depth 78 ft, screened 43 to 78 ft.

DATUM.--Elevation of land-surface datum is 5,717 ft above sea level.

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

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

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
FEB 26	1035	551	7.1	12.5	<0.01	8.4	<0.015	0.01
SEP 09	1115	480	7.2	13.5	<0.01	7.7	<0.015	<0.01

## 384535104450801 - SC01506611BCD2 - VENETUCCI NO. 3

 $LOCATION.--Lat~38^{o}45'35", long~104^{o}45'08", in~SE^{1/4}SW^{1/4}NW^{1/4}~sec. 11, T.15~S., R.66~W., El~Paso~County, ~Hydrologic~Unit~11020003.$ 

AQUIFER .-- Widefield Aquifer of Fountain Creek Alluvium.

WELL CHARACTERISTICS.--Irrigation well, diameter 24 in., depth 80 ft, screening unknown.

DATUM.--Elevation of land-surface datum is 5,750.0 ft above sea level.

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

					NITRO-	NITRO-	NITRO-	PHOS-
		SPE-			GEN,	GEN,	GEN,	PHORUS
		CIFIC			NITRITE	NO2+NO3	AMMONIA	ORTHO,
		CON-	pН	TEMPER-	DIS-	DIS-	DIS-	DIS-
		DUCT-	(STAND-	ATURE	SOLVED	SOLVED	SOLVED	SOLVED
DATE	TIME	ANCE	ARD	WATER	(MG/L	(MG/L	(MG/L	(MG/L
		(US/CM)	UNITS)	(DEG C)	AS N)	AS N)	AS N)	AS P)
		(00095)	(00400)	(00010)	(00613)	(00631)	(00608)	(00671)
SEP								
09	1045	434	7.2	13.5	<0.01	7.3	<0.015	0.05

## 384604104451502 - SC01506602CCC2 - U-9

 $LOCATION.--Lat\ 38^{o}46'04",\ long\ 104^{o}45'15",\ in\ SW^{1}/4SW^{1}/4SW^{1}/4SW^{2}/4SC.2,\ T.15\ S.,\ R.66\ W.,\ El\ Paso\ County,\ Hydrologic\ Unit\ 11020003.$ 

AQUIFER .-- Widefield Aquifer of Fountain Creek Alluvium.

WELL CHARACTERISTICS .-- Monitor well, diameter 2 in., depth 55 ft, screened 51 to 53 ft.

DATUM.--Elevation of land-surface datum is 5,774 ft above sea level.

PERIOD OF RECORD .-- October 1992 to current year.

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

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
MAR 07 AUG	0945	34.04	460	7.2	13.5	<0.01	7.5	<0.015	0.06
18	1330	34.35	459	7.2	14.0		6.8	0.006	

## 384610104453501 - SC01506603DDB - SECURITY NO. 14

 $LOCATION.--Lat~38^{o}46'10", long~104^{o}45'35", in~NW^{1}/_{4}SE^{1}/_{4}~sec. 14,~T.15~S.,~R.66~W.,~El~Paso~County,~Hydrologic~Unit~11020003.$ 

AQUIFER .-- Widefield Aquifer of Fountain Creek Alluvium.

WELL CHARACTERISTICS.--Municipal well, diameter 24 in., depth 80 ft, screened 39 to 80 ft.

DATUM.--Elevation of land-surface datum is 5,779.2 ft above sea level.

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

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

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
FEB 26	1110	624	7.3	13.0	<0.01	8.2	<0.015	0.04
AUG 22	1330	623	7.1	14.0		6.8	<0.015	

## 384617104455901 - SC01506603CAD - STRATMOOR HILLS NO. 4

LOCATION.--Lat 38°46′17″, long 104°45′59″, in SE¹/4NE¹/4SW¹/4 sec.3, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003. AQUIFER.--Widefield Aquifer of Fountain Creek Alluvium.

WELL CHARACTERISTICS.--Municipal well, diameter 16 in., depth 49 ft, screened 29 to 49 ft.

DATUM.--Elevation of land-surface datum is 5,775.4 ft above sea level.

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

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	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 ORTHO, DIS- SOLVED (MG/L AS P)
FEB 26	1315	714	7.4	13.5	<0.01	11	<0.015	0.02
SEP 09	1300	708	7.4	13.5	<0.01	7.5	<0.015	<0.01

## 384628104450801 - SC01506602BDC - TH-23

 $LOCATION. --Lat~38^{o}46'28", long~104^{o}45'08", in~NW^{1}/_{4}SE^{1}/_{4}SW^{1}/_{4}~sec. 2,~T.15~S.,~R.66~W.,~El~Paso~County,~Hydrologic~Unit~1102003.$ 

AQUIFER .-- Widefield aquifer of Fountain Creek Alluvium.

WELL CHARACTERISTICS.--Monitor well, diameter 2 in., depth 89 ft, screened 73 to 88 ft.

DATUM.--Elevation of land-surface datum is 5,849 ft above sea level.

PERIOD OF RECORD.--October 1992 to current year.

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

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
MAR									
07 AUG	1115	71.53	631	7.1	14.0	0.01	6.6	<0.015	0.16
18	1515	70.86	585	7.2	14.5		5.7	<0.015	

# 384639104461401 - SC01506603BAC1 - MARS GAS

LOCATION.--Lat 38°46'39", long 104°46'14", in SW¹/4NE¹/4NW¹/4 sec.3, T.15 S., R.66 W., El Paso County, Hydrologic Unit 1102003. AQUIFER.--Fountain Creek Alluvial Aquifer.

WELL CHARACTERISTICS.--Commercial well, diameter 6 in., depth 85 ft, screened 50 to 85 ft.

DATUM.--Elevation of land-surface datum is 5,820 ft above sea level, from topographic map.

PERIOD OF RECORD .-- March 1985 to current year.

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

					NITRO-	NITRO-	NITRO-	PHOS-
		SPE-			GEN,	GEN,	GEN,	PHORUS
		CIFIC			NITRITE	NO2+NO3	AMMONIA	ORTHO,
		CON-	Нq	TEMPER-	DIS-	DIS-	DIS-	DIS-
		DUCT-	(STAND-	ATURE	SOLVED	SOLVED	SOLVED	SOLVED
DATE	TIME	ANCE	ARD	WATER	(MG/L	(MG/L	(MG/L	(MG/L
		(US/CM)	UNITS)	(DEG C)	AS N)	AS N)	AS N)	AS P)
		(00095)	(00400)	(00010)	(00613)	(00631)	(00608)	(00671)
FEB								
26	1205	1120	7.1	11.5	<0.01	7.1	<0.015	0.01
SEP								
09	1145	1370	7.1	14.0	<0.01	11	<0.015	<0.01

# 384653104451901 - SC01506602BBB - TH-18

 $LOCATION.--Lat\ 38^{o}46'53",\ long\ 104^{o}45'19",\ in\ NW^{1/4}NW^{1/4}NW^{1/4}\ sec. 2.\ T.15\ S.,\ R.66\ W.,\ El\ Paso\ County,\ Hydrologic\ Unit\ 11020003.$ 

AQUIFER .-- Widefield aquifer of Fountain Creek Alluvium.

WELL CHARACTERISTICS.--Monitor well, diameter 2 in., depth 122 ft, screened 96 to 122 ft.

DATUM.--Elevation of land-surface datum is 5,890 ft above sea level.

PERIOD OF RECORD.--October 1992 to current year.

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	
MAR										
07	1230	89.57	488	7.0	14.5	0.02	9.7	<0.015	0.07	
AUG 18	1645	89.14	488	7.1	15.0		10	<0.015		

## 384718104463701 - SC01406633DAA - BARNES WELL

 $LOCATION.--Lat~38^{o}47'18", long~104^{o}46'37", in~NE^{1}/4NE^{1}/4SE^{1}/4~sec. 33.~T.14~S.,~R.66~W.,~El~Paso~County,~Hydrologic~Unit~11020003.$ 

AQUIFER .-- Fountain Creek Alluvial Aquifer.

WELL CHARACTERISTICS.--Domestic well, diameter 6 in., depth 72 ft, screening unknown.

DATUM.--Elevation of land-surface datum is 5,830 ft above sea level, from topographic map.

PERIOD OF RECORD.--March 1985 to current year.

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

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
FEB 26 AUG	1245	1300	7.2	11.0	<0.01	13	<0.015	0.01
20	1145	2290	7.2	13.5		7.6	<0.015	

## 385323104224001 - SC01306230ACC1 - I WELL

 $LOCATION.--Lat~38^{o}53'23", long~104^{o}22'40", in~SW^{1}/4SW^{1}/4NE^{1}/4~sec. 30,~T.13~S.,~R.62~W.,~El~Paso~County,~Hydrologic~Unit~11020004.$ 

AQUIFER .-- Black Squirrel Alluvial Aquifer.

WELL CHARACTERISTICS.--Public-supply well, diameter 16 in., depth 176 ft, screened 116 to 176 ft.

DATUM.--Elevation of land-surface datum is 6,160 ft above sea level, from topographic map

PERIOD OF RECORD.--February 1985 to current year.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	pH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
FEB 26	1445	399	7.3	12.0	<0.01	8.7	<0.015	0.04
SEP 09	1400	400	7.2	12.0	<0.01	7.9	<0.015	0.02

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WSP, definition of 29
Zooplankton, definition of 26
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# **CONVERSION FACTORS AND VERTICAL DATUM**

Multiply	Ву	To obtain
	Length	
inch (in.)	$2.54 \times 10^{1}$	millimeter
	$2.54 \times 10^{-2}$	meter
foot (ft)	$3.048 \times 10^{-1}$	meter
mile (mi)	$1.609 \times 10^0$	kilometer
	Area	
acre	$4.047 \times 10^3$	square meter
	$4.047 \times 10^{-1}$	square hectometer
	$4.047 \times 10^{-3}$	square kilometer
square mile (mi ² )	$2.590 \times 10^{0}$	square kilometer
	Volume	
gallon (gal)	$3.785 \times 10^{0}$	liter
gv.i. (g.i.i.)	$3.785 \times 10^{0}$	cubic decimeter
	$3.785 \times 10^{-3}$	cubic meter
million gallons (Mgal)	$3.785 \times 10^3$	cubic meter
	$3.785 \times 10^{-3}$	cubic hectometer
cubic foot (ft ³ )	$2.832 \times 10^{1}$	cubic decimeter
,	2.832x10 ⁻²	cubic meter
cubic-foot-per-second day [(ft ³ /s) d]	$2.447 \times 10^3$	cubic meter
• • • • • • • • • • • • • • • • • • • •	$2.447 \times 10^{-3}$	cubic hectometer
acre-foot (acre-ft)	$1.233x10^3$	cubic meter
	$1.233 \times 10^{-3}$	cubic hectometer
	$1.233 \times 10^{-6}$	cubic kilometer
	Flow	
cubic foot per second (ft ³ /s)	$2.832 \times 10^{1}$	liter per second
. , ,	$2.832 \times 10^{1}$	cubic decimeter per second
	$2.832 \times 10^{-2}$	cubic meter per second
gallon per minute (gal/min)	$6.309 \times 10^{-2}$	liter per second
	$6.309 \times 10^{-2}$	cubic decimeter per second
	$6.309 \times 10^{-5}$	cubic meter per second
million gallons per day (Mgal/d)	$4.381 \times 10^{1}$	cubic decimeter per second
	4.381x10 ⁻²	cubic meter per second
	Mass	
ton (short)	$9.072 \times 10^{-1}$	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.