

Water Resources Data Colorado Water Year 2000

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

By R.M. Crowfoot, J.W. Unruh, R.D. Steger, and G.B. O'Neill

Water-Data Report CO-00-1

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

UNITED STATES DEPARTMENT OF THE INTERIOR GALE A. NORTON, Secretary

U. S. GEOLOGICAL SURVEY

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PREFACE

Volume 1 of the annual hydrologic data report of Colorado is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each state, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for Colorado are contained in two volumes:

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

Volume 2. Colorado River basin.

Volume 1 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.

REPORT DOCUMENTATION PAGE

Form Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE April 2001	3. REPORT TYPE AN AnnualOct. 1.	D DATES COVERED 1999 to Sept. 30, 2000
4. TITLE AND SUBTITLE	r	,	5. FUNDING NUMBERS
Water Resources Data for Co			
Volume 1. Missouri River ba and Rio Grande basin.			
6. AUTHOR(S) R.M. Crowfoot, J.W. Unruh,			
R.D. Steger, and G.B. O'Neil			
7. PERFORMING ORGANIZATION NAME			8. PERFORMING ORGANIZATION REPORT NUMBER
U.S. Geological Survey, Wat	er Resources Division		USGS-WDR-CO-00-1
Box 25046, Mail Stop 415 Denver Federal Center			USGS-WDR-CO-00-1
Lakewood, CO 80225			
24.0 3 3 3 3 3 3 3 .			
9. SPONSORING / MONITORING AGENC			10. SPONSORING / MONITORING AGENCY REPORT NUMBER
U.S. Geological Survey, Wat Box 25046, Mail Stop 415	er Resources Division		USGS-WDR-CO-00-1
Denver Federal Center			CSGS WER CO 00 1
Lakewood, CO 80225			
11. SUPPLEMENTARY NOTES			
Prepared in cooperation with	the State of Colorado and o	other agencies.	
12a. DISTRIBUTION / AVAILABILITY STA			12b. DISTRIBUTION CODE
No restriction on distribution,		ed from: National Tech-	
nical Information Service, Sp	ringheid, VA 22161		
13. ABSTRACT (Maximum 200 words)			
	orado for the 2000 water ye	ear consist of records of s	stage, discharge, and water quality
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atures, Sampling sites, Water			
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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, J.W. Unruh, 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 143 surface-water stations, peak discharges for 21 partial-record surface-water stations and discharge measurements only for 1 miscellaneous site; (2) stage and contents for 6 lakes and reservoirs; (3) water-quality data for 41 surface-water stations, 4 reservoirs, 14 wells, and miscellaneous surface-water-quality data for 78 gaged sites and 26 miscellaneous sites; and (4) ground-water level records for 2 sites, and meteorological data for 35 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. Three pertinent stations operated by bordering States 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-00-1." 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.

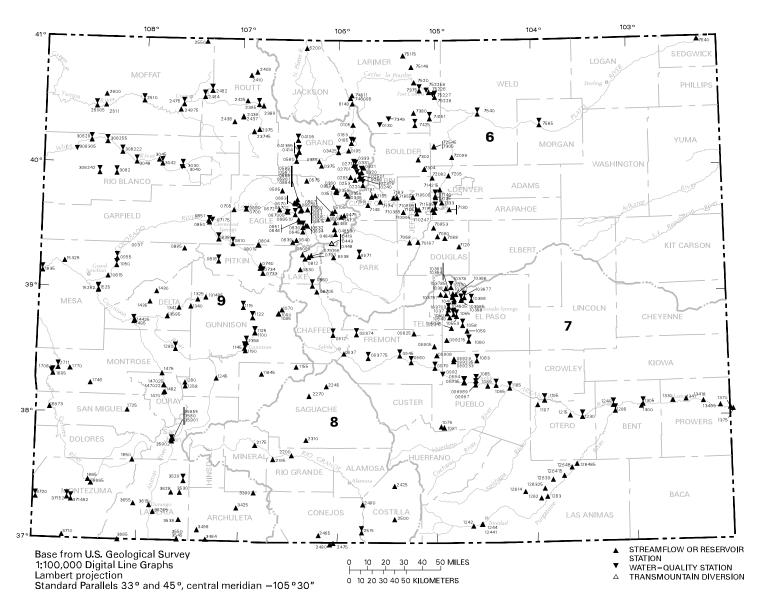


Figure 1.--Map showing locations of lake and surface-water stations and surface-water-quality stations in Colorado.

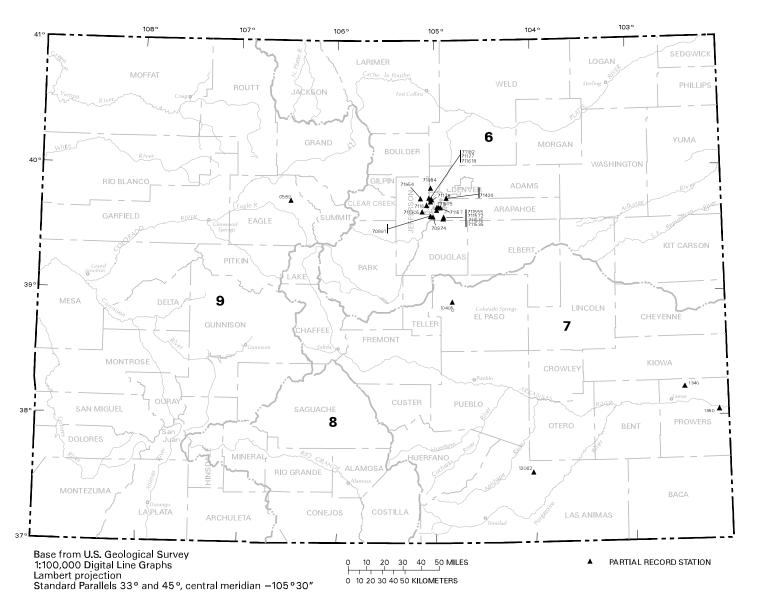


Figure 2.--Map showing locations of crest-stage partial-record stations in Colorado.

COOPERATION

The U.S. Geological Survey and organizations in the State of Colorado have had cooperative agreements for the systematic collection of surface-water records since 1895 and for water-quality records since 1941. Organizations that supported data-collection activities through cooperative agreements with the Survey during the **2000 water year** are:

Arapahoe County Water and Wastewater Authority. Arkansas River Compact Administration. Centennial Water and Sanitation District. Center of Colorado Water Conservancy District. Cherokee Metropolitan District. City and County of Denver, Board of Water Commissioners. City of Aurora.
City of Black Hawk.
City of Boulder. City of Broomfield. City of Colorado Springs. City of Creede. 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 Lakewood.
City of Longmont.
City of Louisville.
City of Loveland.
City of Pueblo.
City of Westminster.
Clear Creek Board of County Commissioners.
Colorado City Metropolitan District.
Colorado Department of Public Health and Environment.
Colorado Department of Transportation.
Colorado Division of Parks and Outdoor Recreation.
Colorado Division of Water Resources.
Colorado Division of Wildlife.
Colorado River Water Conservation District.
Colorado Springs Utilities. Colorado River Water Conservation District.
Colorado Springs Utilities.
Colorado Water Conservation Board
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. Eagle River Watershed Council.
East Grand County Water-Quality Board.
Evergreen Metropolitan District. Fountain Valley Authority. Gilpin County. Grand County. La Plata 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.

North Front Range Water Quality Planning Association.

Northern Colorado Water Conservancy District. Northwest Colorado Council of Governments.
Park County.
Plum Creek Wastewater Authority.
Pueblo Board of Water Works.
Pueblo West Metropolitan District.
Rio Blanco County Board of County Commissioners.
Rio Grande Water Conservation District.
Southeastern Colorado Water Conservancy District.
Southwestern Colorado Water Conservation District. Northwest Colorado Council of Governments. Southwestern Colorado Water Conservation District.
St. Charles Mesa Water District.
Summit County.
Teller - Park Soil Conservation District.
Town of Basalt.
Town of Breckenridge. Town of Crested Butte.
Town of Hotchkiss.
Town of Meeker. Town of Paonia.
Town of Rangely. Town of Vail. Trinchera Water Conservancy District. Irinchera 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. Air Force Academy; U.S. Army, Corps of Engineers; U.S. Army; Bureau of Land Management; Bureau of Reclamation; National Park Service; U.S. Fish and Wildlife Service; U.S. Forest Service; and U.S. Environmental Protection Agency. Organizations that supplied data are acknowledged in station descriptions.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the 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. At 10 of these sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the affects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program can be found at http://water.usgs.gov/hbn/.

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

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

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

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

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

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 2000 water year that began on October 1, 1999, and ended September 30, 2000. 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.

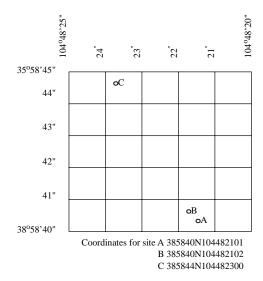
Downstream Order System

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-measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow over dams or weirs; or (4) step-backwater techniques.

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

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

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

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

Data Presentation

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

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

Station manuscript

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

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

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

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

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

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

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

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

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

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

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

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

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

Data table of daily mean values

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

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

Statistics of monthly mean data

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

Summary statistics

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

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

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

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

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

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

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

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

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

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

Identifying Estimated Daily Discharge

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

Accuracy of the Records

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

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

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

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

Other Records Available

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

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

Records of Surface-Water Quality

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

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

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

Accuracy of the Records

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

* Temperature: \pm 0.3 degree C.

* Specific Conductance: $\pm 5 \,\mu\text{S/cm}$ 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, most other samples are analyzed in the Geological Survey laboratories in Lakewood, CO. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the Geological Survey laboratories are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4.

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

Water-Quality Data Reporting Convention

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

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

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

Data Presentation

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

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

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

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

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

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

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

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

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

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made 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

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

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://co.water.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.

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

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet, 325,851 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 measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

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

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

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

Annual runoff is 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, 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, 325,851 gallons, or 1,233 cubic meters.

Cubic foot per second per square mile [CFSM, (ft3/s)/mi2] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.

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

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

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

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warm-blooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at $35 \infty C$. 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 $35 \infty C$ plus or minus $1.0 \infty C$ on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

Fecal streptococcal bacteria are bacteria found 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 that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 ∞C plus or minus 1.0 ∞C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Enterococcus bacteria are commonly found in the feces of humans and other warm-blooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 ∞ C on mE agar and subsequent transfer to EIA medium. Enterococci include Streptococcus feacalis, Streptococcus feacium, Streptococcus avium, and their variants.

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

Base flow is flow in a channel sustained by ground-water discharge in the absence of direct runoff.

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

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

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

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

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 $500 \,\infty C$ for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m3), and periphyton and benthic organisms in grams per square meter (g/m2).

Dry mass refers to the mass of residue present after drying in an oven at 105 ∞C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash, and sediment in the sample. Dry mass is 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 ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass.

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

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

Bottom material: See "Bed material."

Cells/volume refers to the number of plankton cells or natural units counted using a microscope and grid or counting cell. Results are generally reported as cells or units per milliliter.

Cells volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are frequently used in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (mm3) is determined by obtaining critical cell measurements on cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

sphere 4/3 pr3 cone 1/3 pr3h cylinder pr3h.

From cell volume, total algal biomass expressed as biovolume (mm3/mL) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes over all species.

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

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

Colloid is any substance with particles in such a fine state of subdivision dispersed in a medium (for example, water) that they do not settle out; but not in so fine a state of subdivision that they can be said to be truly dissolved.

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

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

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

Continuous-record station is a site that meets either of the following conditions:

- 1. Stage or streamflow are recorded at some interval on a continuous basis. The recording interval is usually 15 minutes, but may be less or more frequent.
- 2. Water-quality, sediment, or other hydrologic measure-ments are recorded at least daily.

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

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

Cubic foot per second (CFS, ft3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second, 448.8 gallons per minute, or 0.02832 cubic meters per second.

Cubic foot per second-day (CFS-DAY, Cfs-day, [(ft3/s)/d]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, 646,317 gallons, or 2,447 cubic meters.

Daily record is a summary of streamflow, sediment, or water-quality values computed from data collected with sufficient frequency to obtain reliable estimates of daily mean values.

Daily record station is a site for which daily records of streamflow, sediment, or water-quality values are computed.

Datum, as used in this report, is an elevation above mean sea level to which all gage height readings are referenced.

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

Discharge, or flow, is the volume of water (or more broadly, volume of fluid including solid- and dissolved-phase material), that passes a given point in a given period of time.

Annual 7-day minimum is the lowest mean discharge for 7 consecutive days in a 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 discharge is the discharge at a particular instant of time.

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

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

Dissolved oxygen (DO) content of water in equilibrium with air is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved solids, with small temperature changes having the more significant offset. Photosynthesis and respiration may cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During that 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 0.4926 to reflect the change. Alternatively, alkalinity concentration (as mg/L CaCO3) can be converted to carbonate concentration by multiplying by 0.60.

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

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

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

Drainage area of a site on a stream is that area, measured in a horizontal plane, that has a common outlet at the site for its surface runoff. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

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

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

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

Gage datum is the elevation of the zero point of the reference gage from which gage height is determined as compared to sea level (see "Datum"). This elevation is established by a system of levels from known benchmarks, by approximation from topographic maps, or by geographical positioning system.

Gage height (G.H.) is the water-surface elevation referenced to the 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 site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

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

Ground-water level is the elevation of the water table or another potentiometric surface at a particular location.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate (CaCO3).

Hydrologic benchmark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a benchmark station may be used to separate effects of natural from human-induced changes in other basins that have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped benchmark basin.

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

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

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

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

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

$$\lambda = -\frac{1}{L} \log_{e} \frac{1}{I_{o}} .$$

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

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

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

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

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

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

Micrograms per gram (UG/G, mg/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

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

Micrograms per liter (UG/L, mg/L) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter.

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

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

Miscellaneous site, or miscellaneous station, is a site where streamflow, sediment, and/or water-quality data are collected once, or more often on a random or discontinuous basis.

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

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

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

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the first order level nets of 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. See NOAA web site: http://www.ngs.noaa.gov/fag.shtml#WhatVD29VD88

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

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

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

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

Organism is any living entity.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

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

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

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

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

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

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

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

Classification	on Size (mm)			Method of analysis
Clay	0.00024	_	0.004	Sedimentation
Silt	0.004	-	0.062	Sedimentation
Sand	0.062	-	2.0	Sedimentation/sieve
Gravel	2.0	-	64.0	Sieve

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

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

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

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

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

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7 are termed "acidic," and solutions with a pH greater than 7 are termed "basic." Solutions with a pH of 7 are neutral. The presence and concentration of many dissolved chemical constituents found in water are, in part, influenced by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms are also influenced, in part, by the hydrogen-ion activity of water.

Picocurie (PC, pCi) is one trillionth (1 x 10-12) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7 x 1010 radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

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

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

Blue-green algae (Cyanophyta) are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

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

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

Fire algae (Pyrrhophyta) are a group of algae that are free-swimming unicells characterized by a red pigment spot.

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

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

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

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

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

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [mg C/(m2/time)] for periphyton and macrophytes or per volume [mg C/(m3/time)] for phytoplankton. Carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light and dark bottle method and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

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

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

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.

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or non-exceedance of a specified low flow). The terms "return period" and "recurrence interval" do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance. Similarly, the 7-day 10-year low flow (7Q10) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the non-exceedances of the 7Q10 occur less than 10 years after the previous non-exceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous non-exceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the

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

River mile is the distance of a point on a river measured in miles from the river's mouth along the low-water channel.

River mileage is the linear distance along the meandering path of a stream channel determined in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council.

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

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 the United States and Canada, formerly called Sea Level Datum of 1929. See: http://www.co-ops.nos.noaa.gov/glossary/gloss_n.html#NGVD

Sediment is solid material that is transported by, suspended in, or deposited from water. It originates mostly from disintegrated rocks; it also includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along or very close to the bed. In this report, bed load is considered to consist of particles in transit from the bed to an elevation equal to the top of the bed-load sampler nozzle (usually within 0.25 ft of the streambed).

Bed-load discharge (tons per day) is the quantity of sediment moving as bed load, reported as dry weight, that passes a cross section in a given time.

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

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The entire sample is used for the analysis.

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

Suspended-sediment discharge (tons/day) is the quantity of sediment moving in suspension, reported as dry weight, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft3/s) x 0.0027.

Suspended-sediment load is a term that refers to material in suspension. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with either suspended-sediment discharge or concentration.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, reported as dry weight, that passes a cross section in a given time.

Total sediment load or total load is a term that refers to the total sediment (bed load plus suspended-sediment load) that is in transport. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with total sediment discharge.

Seven-day 10-year low flow (7Q10, 7Q10) is the minimum flow averaged over 7 consecutive days that is expected to occur on average, once in any 10-year period. The 7Q10 has a 10-percent chance of occurring in any given year.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are 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 from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

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

Stage: See "Gage height."

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

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

Substrate is the physical surface upon which an organism lives.

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 plexiglass strips for periphyton collection.

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

Surface area of a lake or impoundment is that area encompassed by the boundary of the lake or impoundment as shown on USGS topographic maps, or on other available maps or photographs. The computed surface areas reflect the water levels of the lakes or impoundments at the times when the information for the maps or photographs was obtained.

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

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

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

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

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

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

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

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

Kingdom Animal
Phylum Arthropoda
Class Insecta
Order Ephemeroptera
Family Ephemeridae
Genus Hexagenia
Species Hexagenia limbata

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot is 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, tons/d) is the rate representing a mass of 1 ton of a constituent in streamflow passing a cross section in 1 day. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

Total is the total amount of a given constituent in a representative 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 suspended-sediment mixture and that the analytical method determined all of the constituent in the sample.)

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

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

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

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

Total recoverable is the amount of a given constituent that is in solution after a representative 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.

Turbidity is a measurement of the collective optical properties of a water sample that cause light to be scattered and absorbed rather than transmitted in straight lines; the higher the intensity of scattered light, the higher the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU) or Formazin turbidity units (FTU) depending on the method and equipment used.

Volatile organic compounds (VOC's) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOC's are manmade chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens (U.S. Environmental Protection Agency, 1996).

Water level is the water-surface elevation or stage of the free surface of a body of water above or below any datum (see "Gage height"), or the surface of water standing in a well, usually indicative of the position of the water table or other potentiometric surface.

Water table is the surface of a ground-water body at which the water is at atmospheric pressure.

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

Water year in U.S. 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, 1999, is called the "1999 water year."

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

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

Well is an excavation (pit, hole, tunnel), generally cylindrical in form and often walled in, drilled, dug, driven, bored, or jetted into the ground to such a depth as to penetrate water-yielding geologic material and allow the water to flow or to be pumped to the surface.

Wet weight refers to the weight of animal tissue or other substance including its contained water.

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

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WATER RESOURCES DATA - COLORADO, 2000 DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE ONLY STATIONS

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

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
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,
Onzery Grook Hour Waldon, Go	00011000	200	1923,
			1926-47
Little Grizzly Creek near Coalmont, CO	06611700	10.1	1967-73
Little Grizzly Creek riear Coalmont, CO Little Grizzly Creek above Coalmont, CO	06611800	35.4	1976-80
Little Grizzly Creek above Coalmont, CO Little Grizzly Creek above Hebron, CO	06611900	52.2	
		98.6	1976-80
Little Grizzly Creek near Hebron, CO	06612000	90.0	1904-05,
D : E WILL 00	00040500	70.4	1931-45
Roaring Fork near Walden, CO	06612500	79.1	1904-05,
			1923-47
North Platte River near Walden, CO	06613000	469	1904-05,
			1923-47
North 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
Michigan River near Lindland, CO	06615500	60.9	1931-41
North Fork Michigan River near Gould, CO	06616000	20.5	1950-82
Michigan River at Walden, CO	06617100	182	1904-05,
3			1923-47
Illinois Creek near Rand. CO	06617500	70.6	1931-40
Willow Creek near Rand, CO	06618000	55.9	1931-40
Illinois Creek at Walden, CO	06618500	259	1923-47
Michigan River near Cowdrey, CO	06619000	478	1904-05,
wildingan River flear Cowdrey, CO	00019000	470	
One of the Diverse and in the office	00040400	44.0	1937-47
Canadian River near Lindland, CO	06619400	44.0	1978-83
Bush Draw near Walden, CO	06619415	4.10	1980-83
Williams Draw near Walden, CO	06619420	3.95	1979-83
Canadian River near Brownlee, CO	06619450	158	1978-83
Canadian River at Cowdrey, CO	06619500	181	1904-05,
			1929-31,
			1937-47
Laramie River near Glendevey, CO	06657500	101	1904-05,
			1910-82
Middle Fork South Platte River above Fairplay, CO	06693980	62.2	1978-80
Middle Fork South Platte River near Hartsel, CO	06694100	250	1978-80
South Fork South Platte River above Fairplay, CO	06694400	50.3	1978-80
Fourmile Creek near Fairplay, CO	06694700	12.0	1978-80
Elevenmile Canyon Reservoir	06695500	963	1932-98
South Platte River near Lake George, CO	06696000	963	1929-98
South Platte River at Lake George, CO	06696200	1,084	1910-11,
South Flatte River at Lake George, 60	00030200	1,004	1929
Tarryall Crook at Unper Station near Come CO	06696980	23.7	1978-86
Tarryall Creek at Upper Station near Como, CO			
French Creek near Jefferson, CO	06697200	4.63	1986-90
Michigan Creek above Jefferson, CO	06697450	23.1	1978-86
Jefferson Creek near Jefferson, CO	06698000	11.8	1910-12,
- "- "			1978-86
Tarryall Creek near Jefferson, CO	06698500	183	1910-11,
			1912-17,
			1977-81
Rock Creek near Jefferson, CO	06699000	45.5	1986-90
Tarryall Creek below Rock Creek, near Jefferson, CO	06699005	230	1983-97
Tarryall Creek near Lake George, CO	06699500	434 (revised)	1910-12,
		•	1925-55
South Platte River above Cheesman Lake, CO	06700000	1,628	1899-1901,
,	-	,	1924-43
Goose Creek above Cheesman Lake, CO	06700500	86.6	1899,
	33. 33330	00.0	1924-82
Cheesman Lake	06701000	1,752	1900-98
South Platte River below Cheesman Lake, CO	06701000	1,752	1924-98
South Platte River above North Fork at South Platte, CO	06702000	2,098	1905-12

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

Station name	Station number	Drainage area (sq mi)	Period of record (water years)	
North Fork South Platte River at Grant, CO	06702500	49.0	1910-17	
Duck Creek near Grant, CO	06704500	7.78	1995-97	
Geneva Creek at Grant, CO	06705500	74.6	1908-18	
North Fork South Platte River below Geneva Creek, at Grant, CO	06706000	127	1995-97 1908-13,	
North Fork South Flatte River below Geneva Cleek, at Grant, Go	00700000	121	1942-98	
North Fork South Platte River at Pine, CO	06706500	374	1942-46	
North Fork South Platte River at South Platte, CO	06707000	479	1909-10,	
South Platte River at South Platte, CO	06707500	2,579	1913-82 1887-92,	
South Flatte River at South Flatte, CO	00707300	2,579	1895-97,	
			1898-1982	
South Platte River at Waterton, CO	06708000	2,621	1926-80	
East Plum Creek at Castle Rock, CO	06708750	102	1985-89	
Plum Creek near Louviers, CO	06709500	302	1947-90	
Chatfield Lake near Littleton, CO	06709600	3,018	1975-98	
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	
Little Dry Creek at Greenwood Village, CO	06711545	14.4	1994-97	
South Platte River at Florida Avenue, at Denver, CO	06711590		1981-82	
Cherry Creek near Melvin, CO	06712500	360	1939-69	
Cherry Creek Lake near Denver, CO	06712990	385	1960-98	
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	
South Clear Creek above Lower Cabin Creek Reservoir, near Georgetown, CO	06714400		1996-97	
South Clear Creek above Leavenworth Creek, near Georgetown, CO	06714600	16.0	1995-97	
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	
Clear Creek at Forks Creek, CO	06719000	339	1899-1912	
Clear Creek near Golden, CO	06719500	399	1908-09,	
			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,	
			1929-57	
North Saint Vrain Creek near Allens Park, CO	06721500	32.6	1926-30, 1987-97	
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,	
South Saint Viain Stock fical Ward, So	00722300	17.7	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 hear Alleris Park, CO	06723400	81.4	1971-80	
St. Vrain Creek at Lyons, CO	06724000	212	1887-1895	
ot. Viaili olock at Lyons, oo	00724000	212	1895-1998	
Lefthand Creek near Boulder, CO	06724500	52.0	1929-31,	
	00127000	JZ.U	1023-01,	
Ectivation Officer field Bounder, 00			1947-53,	

WATER RESOURCES DATA - COLORADO, 2000 DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE ONLY STATIONS (Continued)

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Lefthand Creek at Mouth at Longmont, CO	06725000	72.0	1927-42,
,			1953-55,
			1976-79
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,
Tourning Oreck at Groden, GO	00727300	27.1	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
St. Vrain Creek at Mouth near Platteville, CO	06731000	976	1904-06,
			1915,
			1927-98
Boulder Brook near Estes Park, CO	06731800	3.83	1968-70
Glacier Creek near Estes Park, CO	06732000	20.8	1941-57,
Clasic Crock fied Establishin, CO	007.02000	20.0	1968-70
Description Providence of Fotos Book 00	0070000	4.40	
Beaver Brook near Estes Park, CO	06732300	1.49	1968-70
Fall River at Estes Park, CO	06732500	39.8	1945-53 ^a
Big Thompson River at Estes Park, CO	06733000	137	1946-98
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
Cottonwood Creek near Pinewood, CO	06741000	14.7	1947-53
Big Thompson River near Loveland, CO	06741500	505	1947-55
Little Thompson River near Berthoud, CO	06742000	100	1929-30,
			1947-61
Little Thompson River at Milliken, CO	06743500	199	1951-55
Big Thompson River at Mouth near La Salle, CO	06744000	830	1914-15,
			1927-82
Cache La Poudre River above Chambers Lake Outlet, CO	06745000	89.7	1929-31
Joe Wright Creek near Cameron Pass, CO	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
South Fork Cache La Poudre near Eggers, CO	06748500	70.6	1929-31
Little Beaver Creek near Idylwilde, CO	06748510	0.88	1960-73
Little Beaver Creek near Rustic, CO	06748530	12.3	1960-73
South Fork Cache La Poudre River near Rustic, CO	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
Cache La Poudre River near Greeley, CO	06752500	1,877	1903-04,
·			1914-19,
			1924-98
Lonetree Creek at Carr, CO	06753400	167	1993-95
Lonetree Creek near Nunn, CO	06753500	199	1951-57
Lonetree Creek near Greeley	06753990	567	1993-95
Crow Creek near Barnsville, CO	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,
SSS SSS THYOL AL SADJOHO, SS	007.07.000	12,110	1943-55
Kiowa Creek at K-79 Reservoir near Eastonville, CO	06757600	3.20	1955-65
Kiowa Creek at R-79 Reservoir flear Eastorville, CO	06757600	28.6	1955-65
West Kiowa Creek at Elbert, CO		35.9	
•	06758100 06758200		1962-65 1955-65
Kiowa Creek at Kiowa, CO	06758200	111	1955-65
Kiowa Creek at Bennett, CO	06758300	236	1960-65

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

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Bijou Creek near Wiggins, CO	06759000	1,314	1950-56
Bijou Creek near Fort Morgan, CO	06759100	1,500	1976-87
South Platte River at Fort Morgan, CO	06759500	14,810	1943-58
South Platte River at Cooper Bridge near Balzac, CO	06759910	16,852	1987-98
South Platte River at Balzac, CO	06760000	16,852	1916-80
South Platte River near Crook, CO	06760500	19,238	1953-58
North Fork Republican River near Wray, CO	06822000	1,019	1937-46,
North Fork Republican River flear Wray, 66	00022000	1,013	1951-57,
			1962-64
South Fork Republican River near Idalia, CO	06825000	1,300	1950-71,
South Fork Republican River flear Idalia, CO	06625000	1,300	
Landaman Craak naar Hala CO	00005500	268	1972-81
Landsman Creek near Hale, CO	06825500	208	1950-76,
D D : 111 00		4.000	1977-81
Bonny Reservoir near Hale, CO	06826000	1,820	1950-95
South Fork Republican River near Hale, CO	06826500	1,825	1946-48,
			1951-86
Leadville Mine Drainage Tunnel at Leadville, CO	07079200		1990-93
East Fork Arkansas River near Leadville, CO	07079500	50.0	1890-1903,
			1910-24
Saint Kevin Gulch above Temple Gulch, near Leadville, CO	07080980	1.84	1993-96
Tennessee Creek near Leadville, CO	07081000	48.0	1890-1903,
			1910-24
California Gulch at Malta, CO	07081800	8.13	1991-92
Lake Fork above Sugar Loaf Reservoir, CO	07082000	23.9	1946-67
Halfmoon Creek near Leadville, CO	07083500	25.2	1911-14
Arkansas River near Malta, CO	07083700	228	1964-67,
			1976-84
Arkansas River below Empire Gulch, near Malta, CO	07083710	237	1990-93
Lake Creek above Twin Lakes Reservoir. CO	07084500	75	1946-98
Arkansas River at Buena Vista, CO	07087200	611	1964-80,
Alkanoao Maara Viola, oo	01001200	011	1986-93
Cottonwood Creek below Hot Springs near Buena Vista, CO	07089000	65.0	1910-23,
Cottonwood oreck below flot opinings flear bacilla visita, co	07003000	00.0	1949-86
Chalk Creek Upper Station near Saint Elmo, CO	07090000	48.0	1913-19
Chalk Creek near Saint Elmo, CO	07090000	83.0	1910-16
Chalk Creek near Nathrop, CO	07091000	97.0	
Chair Greek hear Nathrop, CO	07091000	97.0	1910, 1949-56, ^a
Advances Biver et Calida, CO	07004500	4.040	
Arkansas River at Salida, CO	07091500	1,218	1895-97,
			1901-03,
0 (1 A 1	0700000	4.40	1909-80
South Arkansas River at Poncha, CO	07092000	140	1910-18
Poncha Creek at Poncha, CO	07093000	56.0	1910-18
South Arkansas River near Salida, CO	07093500	208	1922-23,
			1929-40
South Colony Creek near Westcliffe, CO	07094600	6.03	1974-78
Middle Taylor Creek near Westcliffe, CO	07094900	3.19	1974-78,
			1984-85
Fourmile Creek near Canon City, CO	07096500	434	1910-11,
			1949-53,
			1971-97
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		28.5	
	07103750		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		1981-88
Clover Ditch near Widefield, CO	07105820		1981-88

WATER RESOURCES DATA - COLORADO, 2000 DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE ONLY STATIONS (Continued)

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Little Fountain Creek above Keaton Reservoir, CO	07105920	11.0	1978-88,
			1995-98
Womack Ditch near Fort Carson, CO	07105924		1978-91
Little Fountain Creek near Fort Carson, CO	07105928	11.8	1978-89,
			1995-98
Little Fountain Creek near Fountain, CO	07105940	26.9	1978-88
Rock Creek near Fort Carson, CO	07105950	7.79	1978-98
Rock Creek near Fountain, CO	07105960	16.9	1978-88
Saint Charles River at San Isabel, CO Saint Charles River at Burnt Mill, CO	07107000	16.0	1936-41
Greenhorn Creek near Colorado City, CO	07107500 07108050	166 29.6	1923-34 1974-79
Saint Charles River near Pueblo, CO	07108030	467	1941-53,
Saint Charles River near Vineland, CO	07108300	473	1941-53,
Saint Charles River at Mouth near Pueblo, CO	07109000	475	1922-25
Sixmile Creek near Avondale, CO	07110000	45.0	1922-23
Oiximic Oreak fical Avoitable, 00	07110000	40.0	1941-46
Chico Creek near Pueblo Chemical Depot, CO	07110400		1997-99
Chico Creek near North Avondale, CO	07110500	864	1941-46
Huerfano River at Malachite. CO	07111500	107	1923-25
Huerfano River near Badito, CO	07112000	499	1941-46,
			1978-81
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,
			1904-06, 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,
1 - 1 - 2 - 3 - 1 - 1			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	07122200		1968-75
			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
Purgatoire River at Trinidad, CO	07124500	795	1895-99,
			1905-12,
			1915-60,
Burgataira Biyar paar Haahna CO	07425000	957	1961-82
Purgatoire River near Hoehne, CO	07125000	857	1954-68
Frijole Creek near Alfalfa, CO	07125100	80.0	1957-68

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

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Purgatoire River near Alfalfa, CO	07126000	1,320	1905-07,
r digatono ravor nodi / mana, 00	07.120000	1,020	1924-28.
			1951-68
/on Dramon Arraya maga Thatabar CO	07400400	00.0	
/an Bremer Arroyo near Thatcher, CO	07126130	80.6	1983-85
Burke Arroyo Tributary near Thatcher, CO	07126320	4.66	1983-87
Chacuaco Creek at Mouth, near Timpas, CO	07126470	424	1983-92 ^a
Purgatoire River at Highland Dam near Las Animas, CO	07128000	3,376	1898, 1931-55
Rule Creek near Caddoa. CO	07129500	435	1941-46
Caddoa Creek at Caddoa, CO	07131000	131	1941-46
,			1974-77
Villow Creek near Lamar, CO	07133050	42.0	
lig Sandy Creek above Amity Canal near Korman, CO	07134000	3,396	1941-46
wo Butte Creek near Holly	07135000	817	1942-46, 1995-99 ^a
rkansas River at Holly, CO	07135500	25,073	1894,
and the de though of	07 100000	20,070	1901-02,
			1907-53
Vild Horse Creek at Holly, CO	07136000	270	1922-35,
			1938-50
Holly Drain near Holly, CO	07136500		1924-50
Rio Grande at Thirtymile Bridge near Creede, CO	08213500	163	1909-23
			1925-98
North Clear Creek below Continental Reservoir, CO	08214500	51.7	1929-98
Villow Creek at Creede, CO	08214500	51.7	1951-82
,			
tio Grande at Wason below Creede, CO	08217000	705	1907-54
Goose Creek near Wagonwheel Gap, CO	08218000	53.6	1924-26,
			1939-52
oose 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
tio Grande near Monte Vista, CO	08221500	1,590	1926-80
,		,	
Rock Creek near Monte Vista, CO	08223500	32.9	1935-55,
			1966-70
an Luis Creek near Poncha Pass, CO	08224110	6.57	1979-85
an Luis Creek above Villa Grove, CO	08224113	11.2	1979-85
aspberry Creek near Villa Grove, CO	08224200	1.78	1967-70,
			1936-82
Ioland 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
racy 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,
			1967-70
Carnero Creek near La Garita, CO	08230500	117	1919-82
Mosca Creek near Mosca, CO	08234200	3.67	1967-70
lamosa River above Wightman Fork near Jasper, CO	08235250	37.8	1995-99
/ightman Fork below Cropsey Creek at Summitville, CO	08235270	4.44	1995-99
Vightman Fork at mouth near Jasper, CO	08235270	16.1	1995-99
•			
lamosa River above Jasper, CO	08235350	58.1	1995-99
lamosa River below Castleman Gulch near Jasper, CO	08235700	76.3	1995-99
lamosa 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,
a talla a talla di Ganogoo Hallon Hoar Gapaini, Go	0020000	00.0	1919-23,
			,
-II	222222	2.42	1936-82
ellow Warbler Reservoir Inflow near Antonito, CO	08238350	0.18	1979-89
urkey Reservoir Inflow near Conejos, CO	08238380	0.24	1979-89
	08238400	0.23	1979-89
obolink Reservoir near Conejos, CO	00200100	0.20	
Bobolink Reservoir near Conejos, CO Rio Grande above Mouth of Trinchera Creek near Lasauses, CO	08240000	5,740	1936-98

WATER RESOURCES DATA - COLORADO, 2000 DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE ONLY STATIONS (Continued)

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Trinchera 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
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 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, 2000 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
Duck Creek near Grant, CO	06704500	7.78	Temp., S.C., Sed.	1995-97
Geneva Creek at Grant, CO	06705500	74.6	Temp., S.C., Sed.	1995-97
South Platte River at Littleton, CO	06710000	3,069	Temp.	1970-86
South Figure 4. Entroised, 50	001.0000	0,000	S.C.	1984-86
South Platte River at 64th Ave. at Commerce City, CO	06714215	3,884	Temp., pH, D.O.	1987
South Clear Creek above Lower Cabin Creek Reservoir near	06714400		Temp., S.C.,	1995-97
Georgetown, CO	00711100		Sed.	1995,1997
South Clear Creek above Leavenworth Creek near Georgetown, CO	06714600	16.0	Temp., S.C.	1995-97
Court Clock above Ecaverine in Crock floar Coorgetonii, Co	00711000	10.0	Sed.	1995
Leavenworth Creek at mouth, near Georgetown, CO	06714800	12.0	Temp., S.C.	1995-97
Ecaveriworth Oreck at mouth, near Georgetown, GO	007 14000	12.0	Sed.	1995
Clear Creek at Golden, CO	06719505	400	pH, D.O., Sed.	1981
Clear Creek at Golden, CO	007 19303	400	Temp., S.C.	1981-95
Boloton Crook near Blainview CO	06740725	26.0	• •	
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 at Fort Collins	06752260	1,127	Temp., S.C., pH	1987-99
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)			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	07081200	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
Monument Creek at Pikeview, CO	07104000	204	Sed.	1995-97
Fountain Creek at Security, CO	07105800	495	Temp., S.C., pH, D.O.	1991-98
Fountain Creek near Pinon, CO	07106300	849	Temp., S.C.	1976-79
Apishapa River at Aguilar, CO	07118500	149	Sed.	1979-81
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		Temp., S.C.	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
3 1 3			Sed.	1979-81
Molino Canyon near Weston, CO	07124100	4.23	Sed.	1979-81
Sarcillo Canyon near Segundo, CO	07124120	35.3	Sed.	1980-81
Purgatoire River at Madrid, CO	07124200	550	Temp., S.C.	1979-81
g	***************************************		Sed.	1978-81
Mulligan Canyon near Boncarbo, CO	07124210	4.53	Sed.	1979-81
Reilly Canyon at Cokedale, CO	07124220	35.1	Sed.	1979-81
Carpios Canyon near Jansen, CO	07124350	100	Sed.	1979-81
Purgatoire River below Trinidad Lake, CO	07124410	672	Sed.	1977-82
,				
Luning Arroyo Tributary near Model, CO	07126110	 90 6	Temp., S.C.	1984
Van Bremer Arroyo near Thatcher, CO	07126130	80.6	Temp., S.C.	1985
Van Bremer Arroyo near Tyrone, CO	07126140	132	Temp., S.C.	1985-98
Van Bremer Arroyo near Model, CO	07126200	175	Temp., S.C.	1983-98
Purgatoire River near Thatcher, CO	07126300	1,791	Sed.	1983-92
			Temp., S.C.	1983-98

WATER RESOURCES DATA - COLORADO, 2000 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 (wate years)
Burke Arroyo Tributary near Thatcher, CO	07126320	4.66	Temp., S.C.	1983-86
			Sed.	1984-86
Taylor Arroyo below Rock Crossing near Thatcher, CO	07126325	48.4	Temp., S.C.	1983-98
ockwood 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
Villow 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
Alamosa River above Wightman Fork near Jasper, CO	08235250	37.8	Temp., S.C., pH	1995-97,99
Vightman Fork at mouth near Jasper, CO	08235290	16.1	Temp., S.C., pH	1995-97,99
Alamosa River above Terrace Reservoir, CO	08236000	106	Temp., S.C., pH	1994-97
Alamosa River below Terrace Reservoir, CO	08236500	116	Temp., S.C., pH	1995-97,99
Rio Grande above Culebra Creek near Lobatos, CO	08249200		Temp., S.C.	1964-66

Type of record: Temp. (temperature), S.C. (specific conductance), pH (pH), D.O. (dissolved oxygen), Sed. (sediment). a-Converted to a crest-stage partial-record station.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S.G.S. 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.G.S., 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 made in the form of a 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 mention the "U.S. Geological Survey Techniques of Water-Resources Investigations."

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

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

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

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

Section E. Subsurface Geophysical Methods

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

Section F. Drilling and Sampling Methods

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

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

- 3-A1. General field and office procedures for indirect discharge measurements, by M.A. Benson and Tate Dalrymple: USGS-TWRI book 3, chap. A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method,* by Tate Dalrymple and M.A. Benson: USGS-TWRI book 3, chap. A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods,* by G.L. Bodhaine: USGS-TWRI book 3, chap. A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods,* by H.F. Matthai: USGS-TWRI book 3, chap. A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods,* by Harry Hulsing: USGS-TWRI book 3. chap. A5. 1967. 29 pages.

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

Section B. Ground-Water Techniques

- 3-B1. Aquifer-test design, observation, and data analysis, by R.W. Stallman: USGS-TWRI book 3, chap. B1. 1971. 26 pages.
- 3-B2. Introduction to ground-water hydraulics, a programed text for self-instruction, by G.D. Bennett: USGS-TWRI book 3, chap. B2. 1976. 172 pages.
- 3-B3. Type curves for selected problems of flow to wells in confined aquifers, by J.E. Reed: USGS-TWRI book 3, chap. B3. 1980. 106 pages.
- 3-B4. Regression modeling of ground-water flow, by R.L. Cooley and R.L. Naff: USGS-TWRI book 3, chap. B4. 1990. 232 pages.
- 3-B4. Supplement 1. Regression modeling of ground-water flow --Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems, by R.L. Cooley: USGS-TWRI book 3, chap. B4. 1993. 8 pages.
- 3-B5. Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems—An introduction, by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS–TWRI book 3, chap. B5. 1987. 15 pages.
- 3-B6. The principle of superposition and its application in ground-water hydraulics, by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS-TWRI book 3, chap. B6. 1987. 28 pages.
- 3-B7. Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow, by E.J. Wexler: USGS–TWRI book 3, chap. B7. 1992. 190 pages.

Section C. Sedimentation and Erosion Techniques

- 3-C1. Fluvial sediment concepts, by H.P. Guy: USGS-TWRI book 3, chap. C1. 1970. 55 pages.
- 3-C2. Field methods for measurement of fluvial sediment, by H.P. Guy and V.W. Norman: USGS–TWRI book 3, chap. C2. 1970. 59 pages.
- 3-C3. Computation of fluvial-sediment discharge, by George Porterfield: USGS-TWRI book 3, chap. C3. 1972. 66 pages.

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

- 4-A1. Some statistical tools in hydrology, by H.C. Riggs: USGS-TWRI book 4, chap. A1. 1968. 39 pages.
- 4-A2. Frequency curves, by H.C. Riggs: USGS-TWRI book 4, chap. A2. 1968. 15 pages.

Section B. Surface Water

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

Section D. Interrelated Phases of the Hydrologic Cycle

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

Book 5. Laboratory Analysis

Section A. Water Analysis

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

Section C. Sediment Analysis

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

Book 6. Modeling Techniques

Section A. Ground Water

- 6-A1. *A modular three-dimensional finite-difference ground-water flow model*, by M.G. McDonald and A.W. Harbaugh: USGS–TWRI book 6, chap. A1. 1988. 586 pages.
- 6-A2. Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model, by S.A. Leake and D.E. Prudic: USGS-TWRI book 6, chap. A2. 1991. 68 pages.
- 6-A3. A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual, by L.J. Torak: USGS–TWRI book 6, chap. A3. 1993. 136 pages.

- 6-A4. A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2:
 Derivation of finite-element equations and comparisons with analytical solutions, by R.L. Cooley: USGS—TWRI book 6, chap. A4. 1992. 108 pages.
- 6-A5. A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details, by L.J. Torak: USGS-TWRI book 6, chap. A5, 1993. 243 pages.
- 6-A6. A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction, by Eric D. Swain and Eliezer J. Wexler. 1996. 125 pages.

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

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

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

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

Section B. Instruments for Measurement of Discharge

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

Book 9. Handbooks for Water-Resources Investigations

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

- 9-A1. National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling, by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A1. 1998. 47 p.
- 9-A2. National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for Water Sampling, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A2. 1998. 94 p.
- 9-A3. National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A3. 1998. 75 p.
- 9-A4. National Field Manual for the Collection of Water-Quality Data: Collection of Water Samples, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A4. 1999. 156 p.
- 9-A5. National Field Manual for the Collection of Water-Quality Data: Processing of Water Samples, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A5. 1999, 149 p.
- 9-A6. National Field Manual for the Collection of Water-Quality Data: Field Measurements, edited by F.D. Wilde and D.B. Radtke: USGS-TWRI book 9, chap. A6. 1998. Variously paginated.
- 9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators*,edited by D.N. Myers and F.D. Wilde: USGS-TWRI book 9, chap. A7. 1997 and 1999. Variously paginated.
- 9-A8. *National Field Manual for the Collection of Water-Quality Data: Bottom-material samples*, by D.B. Radtke: USGS–TWRI book 9, chap. A8. 1998. 48 pages.
- 9-A9. National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities, by S.L. Lane and R.G. Fay: USGS-TWRI book 9, chap. A9. 1998. 60 pages.

HYDROLOGIC-DATA STATION RECORDS PLATTE RIVER BASIN

06614800 MICHIGAN RIVER NEAR CAMERON PASS, CO

LOCATION.--Lat $40^{\circ}29^{\circ}46^{\circ}$, long $105^{\circ}51^{\circ}52^{\circ}$, 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 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.

		DISCHA	RGE, CUBI	C FEET PER	SECOND, DAILY	WATER YE	EAR OCTOBE	R 1999 TO	SEPTEMBI	ER 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.1 1.1 .97 .92 .87	.48 e.48 e.46 .45	.35 e.34 e.34 e.34 e.34	e.34 e.34 e.34 e.34	e.34 e.34 e.34 e.34	.32 .32 .32 .32	.36 .34 .34 .35	.99 1.5 2.4 3.3 4.4	31 26 27 27 28	7.7 7.5 7.3 6.8 6.4	1.3 1.3 1.3 1.3	2.1 1.9 1.7 1.6
6 7 8 9 10	.92 .94 .87 .80	.43 e.42 .42 .42 .42	e.34 e.34 e.34 e.34	e.34 e.34 e.34 e.34	e.34 e.34 e.34 e.34	.30 .31 .31 .32	.30 .30 .30 .30	4.5 4.6 4.2 3.2 3.8	26 24 23 24 21	6.3 5.9 5.7 5.8 5.6	1.2 1.1 1.1 1.0 .98	1.7 1.5 1.5 1.4
11 12 13 14 15	.75 .68 .66 .64	e.45 e.45 e.45 e.45 e.43	e.34 e.34 e.34 e.34 e.34	e.34 e.34 e.34 e.34	e.34 e.34 e.34 e.34	.32 .33 .35 .33	.31 .34 .34 .35 .36	4.3 3.4 3.2 3.7 4.8		5.3 4.8 4.4 4.0 4.1	.97 .95 .93 .94	1.1 1.1 1.0 .97
16 17 18 19 20	.62 e.62 e.62 e.61 .61	e.39 .34 e.34 e.34 e.34	e.34 e.34 e.34 e.34 e.34	e.34 e.34 e.34 e.34	e.34 e.34 e.34 e.34	.33 .34 .34 .34	.36 .38 .44 .45 .45	6.3 6.0 4.6 4.2 4.1	11 9.5 9.0 11 11	4.3 5.6 5.1 3.9 3.2	1.2 1.7 1.6 1.4	.89 .87 .85 .84
24 25										2.7 2.5 2.3 2.1 2.0		
26 27 28 29 30 31	.51 .48 .48 e.48 e.48	e.34 e.34 e.34 .34 .34	e.34 e.34 e.34 e.34 e.34	e.34 e.34 e.34 e.34 e.34	.32 .32 .33 .32	.34 .34 .34 .34 .34	.48 .59 .94 1.2 1.2	13 12 17 28 32 33	8.7 8.3 7.9 7.9 7.9	1.9 1.9 1.8 1.7 1.6	4.1 3.0 2.5 2.3 2.2 2.0	2.0 2.0 2.1 2.3 2.4
TOTAL MEAN MAX MIN AC-FT	21.49 .69 1.1 .48 43	23	21	10.54 .34 .34 .34 21	9.77 .34 .34 .32 19	10.22 .33 .35 .30 20	13.85 .46 1.2 .30 27	262.59 8.47 33 .99 521	474.1 15.8 31 7.9 940	131.7 4.25 7.7 1.5 261	48.80 1.57 4.1 .93 97	3.0 .84
		MONTHLY ME.	AN DATA F	OR WATER Y								
MEAN MAX (WY) MIN (WY)	.92 2.25 1998 .32 1980	.57 1.11 1996 .20 1979	.43 .88 1996 .25 1979	.36 .57 1988 .17 1991	.32 .55 1986 .16 1977	.33 .86 1986 .17 1974	.41 .80 1994 .22 1982	3.91 9.50 1974 .70 1995	16.6 27.1 1990 10.9 1992	9.17 24.8 1995 2.06 1994	2.83 6.83 1983 1.20 1988	1.45 4.82 1997 .49 1988
SUMMARY	Y STATIST	CICS	FOR	1999 CALEN	DAR YEAR	F	FOR 2000 W	ATER YEAR		WATER YE	ARS 1974	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERO 50 PERO	MEAN F ANNUAL ANNUAL F DAILY ME SEVEN-DA FANEOUS F FANEOUS F	MEAN MEAN MEAN MY MINIMUM MEAK FLOW MEAK STAGE AC-FT) MEDS MEDS MEDS		1022.76 2.80 30 .27 .28 2030 9.7 .56 .32	Jun 23 Mar 29 Mar 24		1053.5 2.8 33 .3 .46 3.5 2090 8.0 .5	May 31 00 Mar 6 00 Apr 5 May 30 8 May 30		3.11 4.61 1.97 69 .08 .14 a,b115 b,c3.69 2260 9.9 .61		1983 1977 14 1995 16 1989 9 1979 12 1995 12 1995

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 $40^{\circ}56^{\circ}15^{\circ}$, long $106^{\circ}20^{\circ}16^{\circ}$, in $\mathrm{NE}^{1}/_{4}$ $\mathrm{SW}^{1}/_{4}$ $\mathrm{SE}^{1}/_{4}$ 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 those 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 data collection platform with satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		DISCIAL	KGE, CODI	C FEET FE		MEAN VA	LUES	. 1000 10	SEF TEMBL	SIC 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	102 99 93 94 93	91 97 102 112 113	e200 e190 171 170 e180	e130 e120 e110 e100 e96	e88 e96 e90 e86 e86	e120 e120 e130 e140 e150	e420 e440 e420 e400 384	1200 1070 975 1010 1090	2030 1880 1630 1410 1260	333 296 281 279 263	100 96 95 95 95	84 81 68 63 64
6 7 8 9 10	90 89 93 97 93	106 106 102 102 106	e190 e180 e160 e140 e130	e90 e88 e92 e92 e88	e88 e90 e90 e92 e92	e160 e170 e170 e160 e160	578 695 611 703 800	1150 1240 1290 1260 1120	1120 985 938 910 926	252 241 235 233 255	87 84 79 79 72	59 57 54 50 50
11 12 13 14 15	91 89 88 88 84	103 100 93 105 110	e130 e130 e140 e140 e130	e92 e90 e88 e88 e90	e90 e88 e88 e88 e90	e150 e150 e160 e160 e160	791 751 741 809 884	964 950 869 679 513	889 767 644 637 598	292 243 220 208 194	74 76 75 77 75	49 48 48 48
16 17 18 19 20	83 82 82 89 93	117 140 127 134 130	e130 e140 e140 e130 e120	e92 e90 e88 e92 e88	e90 e88 e86 e86 e90	e150 e150 e160 e170 e180	865 798 805 811 730	405 405 523 686 685	565 582 572 538 720	195 196 211 213 199	75 76 78 79 76	48 48 48 48 50
21 22 23 24 25	96 97 98 94 90	143 135 e130 e110 e100	e120 e110 e110 e110 e120	e86 e82 e80 e80 e82	e94 e100 e100 e110 e110	e170 e170 e180 e210 e240	694 725 860 994 1000	675 623 564 653 1070	876 699 556 484 442	190 173 155 145 129	68 64 65 75 70	50 74 173 241 204
26 27 28 29 30 31	89 86 92 92 89 92	e110 e130 e160 e190 e200	e120 e120 e130 e140 e130 e130	e86 e84 e80 e78 e80	e100 e100 e110 e120	e260 e320 e390 e430 e440 e420	863 797 856 1000 1150	1410 1700 1820 1750 1800 1990	478 563 564 485 393	123 121 148 132 119 108	76 117 104 90 82 81	164 136 123 115 107
TOTAL MEAN MAX MIN AC-FT	2827 91.2 102 82 5610	3604 120 200 91 7150	4381 141 200 110 8690	2806 90.5 130 78 5570	2726 94.0 120 86 5410	6300 203 440 120 12500	22375 746 1150 384 44380	32139 1037 1990 405 63750	25141 838 2030 393 49870	6382 206 333 108 12660	2535 81.8 117 64 5030	2500 83.3 241 48 4960
STATIST	rics of Mo					- 2000,	BY WATER					
MEAN MAX (WY) MIN (WY)	162 538 1962 31.7 1935	154 366 1962 54.2 1935	104 215 1998 33.9 1977	84.1 177 1984 27.5 1977	89.3 199 1986 35.7 1933	177 722 1986 47.8 1964	756 2444 1962 131 1981	1145 3649 1984 212 1981	1483 3296 1983 89.4 1934	642 2367 1957 26.7 1934	266 763 1983 38.5 1934	150 712 1997 23.8 1934
SUMMARY	STATIST	ICS	FOR	1999 CALE	NDAR YEAR	F	OR 2000 WA	TER YEAR		WATER YE	ARS 1904	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	MEAN F ANNUAL ME ANNUAL ME F DAILY ME DAILY ME SEVEN-DAY FANEOUS PE	EAN EAN AN MINIMUM EAK FLOW EAK STAGE AC-FT) EDS		138774 380 1940 82 85 275300 875 170 97	Jun 18 Oct 17 Oct 12		113716 311 2030 48 48 2090 4.91 225600 871 130 78	Jun 1 Sep 12 Sep 12 Jun 1 Jun 1		436 878 117 6450 19 20 6720 a6.24 315800 1220 163 70	Jun 1 Jul 1 Jul 1 Jun 1 Jun 1	1917 1977 .0 1923 .7 1934 .5 1934 .1 1923 .1 1923

e Estimated

a Maximum gage height, 9.65 ft, Apr 25, 1980, backwater from ice jam.

06693800 MOSQUITO CREEK NEAR ALMA, CO

LOCATION.--Lat $39^{\circ}16'12"$, long $106^{\circ}03'02"$, in $SE^{1}/_{4}NE^{1}/_{4}$ sec.13, T.9 S., R.78 W., Park County, Hydrologic Unit 10190001, on left bank 0.1 mi upstream from confluence with Middle Fork South Platte River, and 1.2 mi south of Alma.

DRAINAGE AREA.--16.2 mi².

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

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 10,220 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 diversions for irrigation, and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data for Gaging Stations" section of this report

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	12 12 11 11	e8.2 e8.2 e8.3 e8.2 e8.2	e7.9 e7.4 e6.8 e6.8 e6.6	e5.0 e5.0 e5.0 e5.0	e4.3 e4.3 e4.2 e4.3 e4.3	e4.5 e4.5 e4.5 e4.5 e4.5	e4.1 e4.1 e4.1 e4.2 e4.4	12 17 22 26 38	86 80 79 73 72	37 38 41 35 32	13 13 12 13	18 15 14 13
6 7 8 9 10	12	o 0 1	~6 1	e5.0 e5.0 e5.0 e5.0	e4.3	e4.5 e4.5	e4.6 e4.4 e5.1 e6.3 e6.1	47 49 46 33 31	71 72 69 66 59	30 30 34 37 35	12 11 11 10 10	13 15 13 14 12
11 12 13 14 15	11 10 10 9.8 9.5	e7.3 e7.4 e7.6	e5.6 e5.6 e5.6 e5.6	e5.0 e5.0 e5.0 e5.2 e5.2	e4.5 e4.5 e4.5 e4.5 e4.5	e4.5 e4.5 e4.5 e4.4 e4.3	5.3 5.9 6.6 6.7 6.1	37 33 26 25 25	52 49 46 41 46	31 29 28 28 26	9.9 10 11 10	11 11 10 10
16 17 18 19 20	9.4 e9.5 e9.8 10 e9.6	e7.5 e7.0 e7.2 e7.3 e7.4	e5.4 e5.4 e5.4 e5.4	e5.4 e5.2 e5.2 e5.2 e5.2	e4.5 e4.5 e4.5 e4.5 e4.5	e4.3 e4.3 e4.3 e4.3 e4.3	6.3 7.5 8.0 6.9 7.7	29 34 26 24 25	47 43 38 45 51	32 44 39 31 26	10 13 14 12 12	9.8 9.6 9.6 9.4 9.5
21 22 23 24 25				e5.2 e5.2 e5.2 e5.1 e5.0	e4.5 e4.8 e4.6 e4.6 e4.5	e4.2 e4.2 e4.1 e4.1 e4.1	7.7 7.2 7.3 7.1 7.1	27 41 76 109 91	41 40 38 38 39	23 21 20 19 18	12 13 14 13	12 18 13 13
26 27 28 29 30 31	8.3 8.2 8.2 8.1 e8.2 e8.2	e7.4 e7.4 e7.4 e7.9 e8.2	e5.0 e5.0 e5.0 e5.0 e5.0 e5.0	e5.0 e5.0 e4.9 e4.8 e4.6 e4.4	e4.5 e4.4 e4.4 e4.5	e4.1 e4.1 e4.1 e4.1 e4.1	12	66 49 66 107 111 97	44 44 40 38 36	18 18 17 16 16	15 17 14 23 21 20	12 11 11 11 11
TOTAL MEAN MAX MIN AC-FT	310.8 10.0 13 8.1 616	228.8 7.63 8.3 7.0 454	178.1 5.75 7.9 5.0 353	156.0 5.03 5.4 4.4 309	4.45 4.8 4.2 256	4.5 4.1 266	6.98 13 4.1 416	1445 46.6 111 12 2870	1583 52.8 86 36 3140	863 27.8 44 14 1710		362.9 12.1 18 9.4 720
							BY WATER Y					
MEAN MAX (WY) MIN (WY)	9.98 10.0 2000 9.94 1999	7.62 7.63 2000 7.61 1999	5.09 5.75 2000 4.43 1999	4.48 5.03 2000 3.93 1999	4.22 4.45 2000 3.98 1999	4.38 4.44 1999 4.32 2000	6.16 6.98 2000 5.33 1999	38.7 46.6 2000 30.8 1999	84.3 116 1999 52.8 2000	47.5 67.1 1999 27.8 2000	23.2 33.3 1999 13.0 2000	13.9 15.8 1999 12.1 2000
SUMMARY	Y STATIST	ICS	FOR	1999 CALEN	DAR YEAR	F	OR 2000 WAT	ER YEAR		WATER YE	ARS 1999	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT ANNUAL 10 PERC	MEAN F ANNUAL ANNUAL M F DAILY M DAILY ME SEVEN-DA FANEOUS P	EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		9264.9 25.4 161 e3.8 e3.9 18380 81 8.0 4.0	Jun 24 Jan 31 Jan 25		6004.1 16.4 111 e4.1 e4.1 155 6.04 11910 41 8.4 4.5	May 30 Mar 23 Mar 23 May 29 May 29		20.8 25.3 16.4 161 e3.8 e3.9 217 6.34 15090 57 8.3 4.1	Jun Jan Jan Jun Jun	1999 2000 24 1999 31 1999 25 1999 23 1999 23 1999

e Estimated.

06697100 TARRYALL CREEK BELOW PARK GULCH NEAR COMO, CO

LOCATION.--Lat 39°16'54", long 105°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.--76.1 mi², of which 3.2 mi² is noncontributing.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,260 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 diversion from Colorado River basin through Boreas Pass ditch, diversions for irrigation, and return flow from irrigated areas.

		DISCHAF	RGE, CUBI	C FEET PER		WATER YE MEAN VA	CAR OCTOBER LUES	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	12 11 11 11 11	e9.2 e9.0 e9.2 e9.2	e7.2 e7.2 e7.0 e7.0 e6.8	e5.0 e4.9 e4.9 e4.9	e4.0 e3.9 e4.0 e4.0	e4.4 e4.4 e4.4 e4.4	e6.0 e6.0 e7.0 e8.0 e9.0	21 20 23 26 29	43 44 44 42 41	23 23 23 21 19	8.8 9.3 8.6 10 8.5	9.3 7.9 7.2 7.0 6.7
6 7 8 9 10	11 14 18 17 13	e9.2 e9.0 e8.8 e8.4 e8.4	e6.6 e6.4 e6.0 e5.6	e4.7 e4.8 e4.8 e4.7 e4.7	e4.0 e4.0 e4.0 e4.2 e4.0	e4.4 e4.4 e4.4 e4.4	e11 e9.0 e10 e11 e12	30 21 26 29 23	39 37 35 34 32	17 16 18 18 17	7.8 6.2 5.2 4.7 4.2	6.3 6.4 6.3 6.0 5.2
11 12 13 14 15	12 11 11 11 10	e8.2 e8.2 e8.2 e8.0 e8.0	e5.4 e5.4 e5.4 e5.3	e4.8 e4.8 e4.8 e4.8	e4.0 e4.0 e4.0 e4.0	e4.4 e4.4 e4.4 e4.6	e17 20 23 22 20	22 18 15 13 12	31 29 23 20 20	16 15 15 15 15	4.3 5.0 6.6 6.7 5.5	4.7 4.4 3.9 3.5 3.4
16 17 18 19 20	10 e10 e11 12 12	e8.0 e8.0 e7.8 e7.8	e5.2 e5.2 e5.2 e5.2 e5.2	e5.2 e5.4 e5.4 e5.4 e5.3	e4.0 e4.0 e4.0 e4.0 e4.0	e4.3 e4.3 e4.3 e4.3	16 18 20 16 15	12 22 27 29 27		18 32 18 13		3.2 3.3 3.3 2.8 3.6
21 22 23 24 25	11 10 9.7 9.5 9.2	e7.6 e7.6 e7.6 e7.6	e5.1 e5.0 e4.8 e4.9 e4.8	e5.2 e5.2 e5.0 e4.8 e4.9	e4.0 e4.3 e4.4 e4.4 e4.3	e4.4 e4.5 e4.5 e4.6 e4.8	16 16 21 36 22	23 22 22 27 36	33 30 21 18 16	14 13 12 11	8.4 9.1 8.6 6.7 6.9	4.5 7.9 6.7 8.3 7.4
26 27 28 29 30 31	9.2 8.9 8.7 9.0 e9.2 e9.4	e7.4 e7.4 e7.4 e7.4 e7.3	e4.8 e4.9 e4.9 e4.9 e4.9	e4.8 e4.8 e4.5 e4.3 e4.1 e4.0	e4.3 e4.3 e4.3 	e5.0 e5.2 e7.0 e9.0 e11 e7.0	20 21 23 23 24	33 32 28 32 39 42	20 28 12 9.1 14	11 12 13 11 9.5 9.9	9.4 9.6 8.6 11 12	7.0 6.3 5.8 5.6
TOTAL MEAN MAX MIN AC-FT							498.0 16.6 36 6.0 988	781 25.2 42 12 1550	862.1 28.7 44 9.1 1710	492.4 15.9 32 9.5 977	248 0	160 7
							BY WATER					
MEAN MAX (WY) MIN (WY)	11.0 12.0 1999 9.83 1998	9.27 11.6 1999 8.04 1998	5.40 5.60 1999 5.03 1998		3.84 4.09 2000 3.41 1998	5.78 6.28 1998 5.00 2000	12.4 16.6 2000 9.49 1998	29.5 42.7 1999 20.5 1998	65.1 108 1999 21.5 1998	32.6 55.4 1999 15.9 2000	25.8 41.2 1999 8.00 2000	14.3 20.2 1997 5.66 2000
SUMMARY	STATIST	ICS	FOR	1999 CALEN	DAR YEAR	F	OR 2000 WA	TER YEAR		WATER YE	EARS 1997	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL M DAILY ME SEVEN-DA TANEOUS P	EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		9618.9 26.4 136 e3.8 e3.9 19080 78 9.2 4.1	Jun 25 Feb 13 Feb 7		4236.0 11.6 44 2.8 3.3 48 4.39 8400 26 8.0 4.3	Jun 2 Sep 19 Sep 14 Jul 17 Jul 17		17.0 26.7 11.6 163 2.5 2.7 173 5.91 12300 44 11 4.0		1999 2000 9 1997 9 1998 8 1998 9 1997 9 1997

e Estimated.

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

WATER-QUALITY RECORDS

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

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)
DEC 14	0945	5.4	212	7.8	.1	8.6	110	35.8	5.95	3.4	.1
MAR 23	1020	4.6	290	7.9	.2	8.1	130	38.0	9.20	10.8	. 4
APR 26	0930	18	453	8.4	3.5	8.5	180	47.0	15.8	22.6	.7
MAY 24	0905	26	212	8.3	9.6	8.0	96	29.1	5.68	4.2	.2
JUN 13	1030	24	215	8.2	13.1	7.9	100	32.6	5.68	3.0	.1
JUL 25	1105	12	205	8.3	14.5	8.2	100	32.8	5.31	2.9	.1
SEP 07	1710	7.0	228	8.6	18.5	8.1	110	33.5	5.71	3.6	.2
DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)
DEC 14	.8	89		74	16.6	.6	<.1	8.8	125	116	.17
MAR 23	1.5	124		102	39.9	1.9	.1	9.1	187	172	. 25
APR 26	2.1	137	7	124	81.2	4.0	.3	10.0	303	258	.41
MAY 24	.9	122		100	14.6	.8	<.1	8.4	134	124	.18
JUN 13	.8	140		115	8.9	.3	<.1	9.3	137	130	.19
JUL 25	.7				11.1	.5	<.1	8.7	127		
SEP 07	1.0	118	4	103	14.1	.7	<.1	8.5	142	129	.19
DATE	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)
DEC 14	1.82	<.010	<.050	<.020	.12	E.10	E.007	<.004	.014	1.4	2.1
MAR 23	2.32	<.010	<.050	<.020	.17	.13	.009	E.003	<.010	4.6	2.7
APR 26	15.1	<.010	<.050	<.020	.50	.39	.024	.013	.014	7.9	7.0
MAY 24	9.41	<.010	<.050	<.020	.31	.18	.030	E.005	<.010	5.3	3.3
JUN 13	8.88	<.010	<.050	<.020	.32	.22	.028	.006	<.010	4.8	3.8
JUL 25		<.010	<.050	<.020	.17	.12	.014	E.003	<.010	3.0	2.0
SEP 07	2.67	<.010	<.050	<.020	.16	.12	.012	E.004	<.010	2.4	2.1

06697100 TARRYALL CREEK BELOW PARK GULCH NEAR COMO, CO--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)
DEC											
14	<1	<1	<2.0	84	<1	<1.0	<.8	<1	<1	<10	<1
MAR 23 APR	1	<1	<2.0	83	<1	<1.0	<1.0	<1	<1	70	<1
26 MAY	3	<1	<2.0	68	<1	<1.0	<.8	<1	1	70	<1
24 JUN	13	<1	<2.0	60	<1	<1.0	1.1	<1	1	40	<1
13 JUL	10	<1	<2.0	60	<1	<1.0	<.8	<1	<1	70	<1
25 SEP	1	<1	<2.0	80	<1	<1.0	<.8	<1	1	50	<1
07	1	<1	<2.0	89	<1	<1.0	<.8	<1	1	60	<1

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
DEC										
14 MAR	16	<1	<1	<2.4	<1	1	<1	8	.12	53
23	21	1	<1	<2.4	<1	2	2	7	.09	90
APR									4.5	
26 MAY	20	1	<1	<2.4	<1	2	3	9	.45	84
24	14	1	1	<2.4	<1	4	1	26	1.8	82
JUN 13	14	<1	2	<2.4	<1	3	1	21	1.4	81
JUL	14	ν1	2	\2.4	<u> </u>	3	Τ.	ZI	1.4	OΤ
25	12	1	<1	<2.4	<1	<1	<1	7	.23	73
SEP 07	16	1	<1	<2.4	<1	1	<1	4	.08	93
0/	Τ0	1	<u> </u>	NZ.4	<u></u>	1	<u> </u>	4	.00	23

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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 07 NOV 30 JAN 14 FEB 28	1350 1515 1130 1235	14 7.1 4.8 4.3	212 233 225 209	4.4 .2 .0	MAY 25 JUL 31 SEP 07	1432 1150 0915	39 11 7.0	226 204 228	14.5 14.5 9.5

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392144105132401 SPRING CREEK RAIN GAGE AT LONG SCRAGGY RANCH, CO

PRECIPITATION RECORDS

LOCATION.--Lat $39^{\circ}21^{\circ}44^{\circ}$, long $105^{\circ}13^{\circ}24^{\circ}$, in $SW^{1}/_{4}SE^{1}/_{4}$ 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 1997 to current year (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.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

REMARKS. -- Records good.

26 27

28 29

30

31

TOTAL

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily rainfall, 1.75 inches, May 25, 1999.

EXTREMES FOR CURRENT YEAR (seasonal only). -- Maximum daily rainfall, 1.59 inches, July 16.

DAY OCT NOV DEC JAN FEB APR MAY JUN JUL AUG SEP .00 .01 .00 .01 .00 2 ___ ------------------.00 .00 .13 .00 ---.00 .00 .00 .01 .00 ___ ___ ___ ___ ___ 0.0 0.0 0.0 10 5 .02 .00 .00 .00 .00 .12 .00 .00 .00 .00 .00 .00 67 ------------------.00 .00 .00 .00 .00 .00 .04 .69 .00 .00 8 .18 ------.00 .00 .00 .11 .00 .00 ---------10 ---.05 .00 .00 .01 .00 .00 11 .01 .00 .00 .00 .00 .00 12 13 ---.00 ___ ___ ___ ___ ___ .00 .00 .14 .00 .00 ---------------.00 .00 .00 .19 .00 14 .00 .00 .00 .00 .01 .00 15 ------------------.02 .00 .00 .00 .00 .00 .08 .01 1.59 .09 .00 16 .00 ------------------.78 17 .00 .05 .08 .44 .32 18 .00 .12 .00 .13 .00 ---------------.00 .00 ---2.0 .00 .01 .03 .00 .02 .16 21 . 00 .00 .00 .00 .02 .19 ------------------22 ------------------.76 .00 .00 .30 .00 .02 .03 .00 .06 .03 25 ---___ ___ ___ ___ ___ .00 .02 .26 ___ .16 .18

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06701970 SPRING CREEK ABOVE MOUTH NEAR SOUTH PLATTE, CO

LOCATION.—Lat $39^{\circ}23^{\circ}37^{\circ}$, long $105^{\circ}11^{\circ}01^{\circ}$, in $SE^{1}/_{4}SE^{1}/_{4}$ 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.

DRAINAGE AREA.--9.79 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,320 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 6,380 ${\rm ft}^3/{\rm s}$, Aug. 31, 1997, gage height, 13.45 ft, from slope-area measurement of peak flow; minimum daily, 0.64 ${\rm ft}^3/{\rm s}$, Oct. 30, 1997.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 164 $\rm ft^3/s$ at 2055 July 16, gage height, 5.32 $\rm ft$; minimum daily, 0.89 $\rm ft^3/s$, June 20.

		DISCHARG	E, CUBIC	FEET PER		WATER YEA		1999 TO	SEPTEMBER	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.8 1.7 2.0 1.9	 	 	 	 	 	2.5 2.1 1.8 2.2 2.1	1.7 1.8 1.9 1.9	1.3 1.3 1.3 1.2	1.1 1.1 1.2 1.2	1.1 1.1 1.1 1.0	1.0 1.0 .95 .99
6 7 8 9 10	1.2 1.4 1.5 1.6	 		 	 	 	2.0 1.9 1.8 2.0 1.5	1.5 1.5 1.8 1.7	1.2 1.1 1.1 1.1 1.0	1.2 1.2 1.2 1.3	1.1 1.1 1.0 .98	.99 .95 .96 .99
11 12 13 14 15	1.2 1.5 1.5 1.8 1.5	 	 	 	 	 	1.6 2.0 2.0 2.0 2.0	1.4 1.3 1.4 1.5	1.0 1.0 1.0 1.1	1.2 1.3 1.3 1.2	.89 .90 .90 1.1	.95 .99 1.0 1.0
16 17 18 19 20	1.4 1.5 1.4 e1.4 1.9	 	 	 	 	 	1.7 1.7 1.7 2.0 2.5	1.1 1.2 1.3 1.3	1.2 1.2 1.1 .93 .89	3.8 3.8 3.2 2.8 2.7	1.0 1.1 1.3 1.2	.98 .99 1.0 .99
21 22 23 24 25	1.8 1.4 1.9 e1.6 e1.3		 		 		2.1 2.1 2.1 1.6 1.6	e1.3 e1.3 e1.3 e1.3	.89 .96 1.0 1.0	2.6 2.5 2.1 1.5	1.3 1.3 1.2 1.1	1.1 1.2 1.2 1.2
26 27 28 29 30 31	1.1 1.0 1.2 1.2 1.3	 		 	 	1.8 2.1 e2.2	2.1 2.0 1.9 2.0 2.0	e1.2 e1.3 e1.3 e1.3 e1.3	1.2 1.2 1.1 1.1 1.1	1.4 1.3 1.3 1.3 1.2	1.0 1.1 1.0 1.1 1.0	1.2 1.2 1.2 1.3
TOTAL MEAN MAX MIN AC-FT	46.4 1.50 2.0 1.0 92	 	 	 	 	 	58.6 1.95 2.5 1.5 116	44.2 1.43 1.9 1.1 88	32.86 1.10 1.3 .89 65	52.3 1.69 3.8 1.1 104	33.16 1.07 1.3 .89 66	31.77 1.06 1.3 .95 63

e Estimated.

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06701970 SPRING CREEK ABOVE MOUTH NEAR SOUTH PLATTE, CO--Continued

PRECIPITATION RECORDS

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

GAGE.--Tipping-bucket rain gage (no wind shields used) with satellite telemetry.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily rainfall, 2.38 inches, July 16, 2000.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily rainfall, 2.38 inches, July 16.

		PRECI	IPITATION,	TOTAL,	INCHES, WA	ATER YEAR 7 SUM VALU		999 TO SE	EPTEMBER 2	2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2								.00	.00	.00	.00	.00
3								.00	.00	.00	.00	.00
4								.00	.00	.00	.15	.02
5							.00	.00	.00	.00	.05	.16
6							.00	.00	.00	.00	.00	.01
7							.00	.00	.00	.00	.00	.00
8							.05	.48	.00	.01	.00	.10
9							.00	.00	.00	.12	.00	.00
10							.01	.00	.00	.00	.00	.00
11							.00	.00	.00	.00	.02	.00
12							.00	.00	.00	.53	.00	.00
13							.00	.00	.00	.00	.18	.00
14							.00	.00	.00	.00	.00	.00
15							.08	.00	.00	.00	.00	.00
16							.00	.00	.00	2.38	.10	.00
17							.00	.10	.06	.16	.55	.00
18							.00	.11	.00	.00	.08	.00
19							.00	.01	.00	.00	.01	.00
20							.00	.02	.01	.00	.40	.16
21							.00		.00	.00	.09	.16
22							.30		.00	.00	.06	.01
23							.03		.00	.00	.00	.02
24							.00		.00	.00	.00	.26
25							.00		.14	.00	.06	.00
26							.00		.18	.00	.23	.00
27							.00		.01	.00	.02	.00
28							.01		.00	.00	.32	.00
29							.21		.02	.00	.10	.00
30							.32		.00	.00	.00	.00
31								.04		.00	.33	
TOTAL									0.42	3.23	2.75	0.90

392133105184401 BUFFALO CREEK RAIN GAGE AT MORRISON CREEK, CO

PRECIPITATION RECORDS

LOCATION.--Lat $39^{\circ}21^{\circ}33^{\circ}$, long $105^{\circ}18^{\circ}44^{\circ}$, 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 1997 to current year (seasonal records only).

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

REMARKS. -- Records good.

TOTAL

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily rainfall, 1.67 inches, June 6, 1997.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily rainfall, 1.11 inches, July 17.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY SUM VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 0.0 0.0 0.0 0.0 0.0 .00 .00 .00 .02 .00 3 ___ ---------------.00 .00 .00 .00 .00 ------------4 5 .00 .00 .00 .00 .30 .07 ---___ .00 .00 .00 .00 .03 0.0 0.0 0.0 0.0 0.0 6 7 ---___ ___ ___ 0.0 .00 .00 .00 .00 .00 .00 8 ------------------.00 . 21 .00 .00 .00 .02 .00 .00 .00 .03 .00 .00 10 ---___ ---------.05 .00 .00 .00 .00 .00 .00 11 ---.00 .00 .00 .00 .00 12 .00 .00 .40 .00 .00 ---13 ___ ___ ___ ___ ___ .00 .00 .00 .00 .10 .00 ---------------14 .04 .01 .00 .00 .00 .00 15 .08 .00 .00 .00 .00 .00 16 17 ------------------.00 .00 .00 .43 1.11 .11 .00 18 19 ---------------.00 .08 .00 .00 .09 .00 ---.00 .01 .00 .00 .00 .01 20 ___ ___ ___ .00 .03 .06 .06 21 .00 .00 .00 .00 .07 .08 .92 22 ------------------.00 .00 .00 .35 . 01 23 ------------------.00 .00 .00 .01 .04 .12 .02 .00 .47 .11 25 .00 .01 .00 .03 .28 .02 26 .00 .00 .05 .00 .00 27 28 ------------------.00 .00 .02 .00 .04 .00 .00 .00 .00 .04 .15 .00 29 30 ------------------.20 .00 .00 .00 .10 .00 31 ___ ___ ___ ___ ___ ___ .00 .00 .55

0.50

0.45

2.01

3.35

0.45

06706800 BUFFALO CREEK AT MOUTH AT BUFFALO CREEK, CO

LOCATION.--Lat $39^{\circ}23^{\circ}27^{\circ}$, long $105^{\circ}16^{\circ}15^{\circ}$, in $\mathrm{SE}^{1}/_{4}\mathrm{SW}^{1}/_{4}$ sec.31, T.7 S., R.70 W., Jefferson County, Hydrologic Unit 10190002, on left bank 0.2 mi downstream from State Highway 67, 0.5 mi upstream from mouth, and in the community of Buffalo Creek.

DRAINAGE AREA. -- 47.4 mi2 (revised).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1997 to current year (seasonal records only).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,630 ft (revised) above sea level, from topographic map.

REMARKS.-- No estimated daily discharges. Records fair. Flow is slightly regulated by Wellington Lake 7.2 mi 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.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 3,400 $\rm ft^3/s$, at July 31, 1998, gage height, 10.80 ft, from high water marks; minimum daily, 3.9 $\rm ft^3/s$, Mar. 31, 1999.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 24 ${\rm ft}^3/{\rm s}$, at 1400 July 15, gage height, 3.97 ${\rm ft}$; minimum daily, 4.0 ${\rm ft}^3/{\rm s}$, Sept. 19.

		DISCHAR	GE, CUBIC	FEET PER	SECOND, DAILY	WATER YE MEAN VA		R 1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	9.2					7.9	13	9.5	9.2	20	6.2
2	11	9.1					8.1	13	9.4	9.3	21	5.3
3	11	9.1					8.3	13	9.2	12	21	4.8
4	11	9.1					8.4	13	9.0	19	21	5.3
5	10	9.1					8.6	14	9.0	19	20	6.6
6	9.9	9.1					8.7	14	8.8	19	19	6.3
7	10	9.1					9.0	14	8.7	20	19	6.0
8	11	9.1					9.1	15	8.4	20	19	5.9
9	10	9.1					9.2	14	8.3	20	18	6.0
10	10	11					9.6	14	8.2	20	18	5.7
11	9.7	9.2					9.7	14	8.0	19	17	5.4
12	9.3	9.1					9.8	14	7.9	20	17	5.1
13	9.2	9.1					10	14	7.7	20	16	4.9
14	9.2	9.1					10	14	7.6	20	16	4.7
15	9.3	9.0					11	14	7.4	20	16	4.5
16	9.3	9.0					11	14	7.3	21	16	4.4
17	9.4	9.0					11	14	7.2	20	16	4.3
18	9.5	9.0					11	13	7.0	10	17	4.1
19	9.4	9.1					11	13	6.8	12	15	4.0
20	9.2	9.0					11	13	6.7	17	5.6	4.7
21	9.2	9.0					11	12	6.5	17	4.7	5.1
22	9.2	9.1					11	12	6.5	17	4.8	5.2
23	9.2	9.1					12	11	6.7	17	5.3	5.3
24	9.2	9.1					12	11	7.1	17	5.0	5.7
25	9.2	9.1					12	11	7.5	18	4.5	5.3
26	9.2	9.3					12	10	8.0	18	4.7	5.4
27	9.2	9.0				6.9	12	10	8.4	18	5.9	5.0
28	9.2	8.9				7.1	12	10	8.8	19	4.6	4.8
29	9.2	8.9				7.3	12	9.8	9.1	19	6.5	4.6
30	9.2	8.9				7.5	13	9.8	9.1	19	5.6	4.5
31	9.2					7.7		9.5		20	5.4	
TOTAL	300.6	274.0					311.4	390.1	239.8	545.5	404.6	155.1
MEAN	9.70	9.13					10.4	12.6	7.99	17.6	13.1	5.17
MAX	12	11					13	15	9.5	21	21	6.6
MIN	9.2	8.9					7.9	9.5	6.5	9.2	4.5	4.0
AC-FT	596	543					618	774	476	1080	803	308

06706800 BUFFALO CREEK AT MOUTH AT BUFFALO CREEK , CO--Continued $\begin{array}{ccc} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ \end{array}$

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

GAGE.--Tipping-bucket rain gage (no wind shields used) with satellite telemetry.

REMARKS. -- Records good.

TOTAL

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily rainfall, 1.63 inches, May 25, 1999.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily rainfall, 1.17 inches, July 16.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY SUM VALUES DAY OCT NOV MAR πп AUG SEP DEC JAN FEB APR MAY NUTL .00 .00 .00 .00 .00 ------------.00 ------.00 .00 .00 .00 .00 ------------.00 5 ___ ___ ___ .00 .00 .00 .00 .00 .00 . 00 .00 .00 .00 .00 .00 6 7 ---------------------.00 .00 .00 .00 .00 .00 8 9 42 .00 .00 .00 .00 .00 10 ---___ ___ ___ ---___ .00 .00 .00 .00 .00 .00 .00 .00 11 12 .00 .00 .00 .00 ---------.00 .00 .65 .00 .00 ------------------------------13 .00 .00 .00 .00 .00 .00 14 15 .00 .00 .00 .00 .00 .00 ___ ---.00 .00 .00 .00 .00 .00 16 17 .00 1.17 .00 .00 .00 .00 ------------------.00 .00 .00 .00 .62 .66 18 19 ---------------.00 .00 .00 .00 ---.00 .00 .00 .00 .00 .00 20 .00 .00 21 22 ------------------.00 .00 .00 .00 .00 .21 .00 .49 .00 .00 .00 .00 23 24 25 ------------------.00 .00 .00 .00 .00 .00 .00 . 21 .00 .00 .29 .00 .00 .00 26 27 ---------------.00 .00 .19 .00 .37 .00 ___ 28 .00 .00 .20 .00 .00 29 ___ ___ ___ ___ ___ ___ 0.0 .00 0.0 .00 0.0 30 .00 .00 .00 .00 .00 .00 31 ---------------.00 .00 .72

0.42

0.48

2.64

2.29

0.42

06708800 EAST PLUM CREEK BELOW HASKINS GULCH NEAR CASTLE ROCK, CO

LOCATION.--Lat $39^{\circ}25^{\circ}28^{\circ}$, long $104^{\circ}54^{\circ}27^{\circ}$, in $SE^{1}/_{4}SE^{1}/_{4}$ sec.20, T.7 S., R.67 W., Douglas County, Hydrologic Unit 10190002, on right bank at the Plum Creek Wastewater Treatment Plant, 0.1 mi southeast of Happy Canyon Road, 3.0 mi east of Sedalia, and 3.6 mi northwest of Castle Rock.

DRAINAGE AREA.--117 mi².

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

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,940 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	12 11 9.5 9.5 8.9	11 10 10 13 9.0	11 10 12 11	13 7.7 8.1 7.6 12	6.5 8.7 12 12 9.0	8.9 9.4 10 9.4 9.6	23 28 31 31 38	29 26 25 25 26	15 16 20 15 16	6.4 6.4 5.0 4.6 4.6	1.3 1.1 3.9 2.3 1.7	31 17 13 11 9.3
6 7 8 9 10	9.9 10 8.7 12 9.7	11 12 9.7 13 12	14 17 17 12 17	10 10 9.4 8.8 7.1	9.1 8.4 9.7 10 8.9	10 11 14 12 10	36 33 32 32 30	26 25 30 29 26	13 14 13 13 12	3.9 3.4 3.2 3.3 3.3	1.5 1.4 1.3 1.1	7.8 7.0 6.3 6.3
11 12 13 14 15	9.8 7.8 8.9 8.0	11 11 9.0 11 8.3	15 12 12 10 8.8	9.2 13 9.4 11	8.5 8.9 8.4 9.0 9.7	10 10 11 9.4 11	32 33 35 35 36	23 27 26 26 26	12 12 9.4 9.2 7.6	3.1 5.1 6.8 7.2 7.8	.86 .89 9.2 6.2 1.9	4.9 5.2 4.9 4.9 5.2
16 17 18 19 20	13 14 11 14 16	9.9 9.7 9.5 11 13	9.3 14 12 9.9 9.8	10 9.7 13 16 14	8.1 8.4 8.6 9.1 9.2	16 13 14 15 18	35 34 31 33 29	24 31 32 26 27	6.7 8.2 6.8 5.6 4.9	8.5 19 9.9 7.4 3.3	2.0 5.6 6.0 8.1 7.4	3.9 3.3 3.1 2.9 5.8
21 22 23 24 25	14 14 14 12 12	14 15 13 10 14	7.0 5.8 7.2 8.0 7.6	13 9.7 11 8.9 9.9	9.5 8.7 12 9.5	18 15 17 22 22	30 30 30 27 28	24 21 19 18 22	4.8 3.9 3.2 3.5 3.4	2.4 2.3 2.0 1.8 1.8	7.6 6.9 4.5 3.3	5.0 5.7 6.6 8.3 6.0
26 27 28 29 30 31	11 9.8 10 10 9.7	12 13 14 13 12	7.7 7.9 11 10 6.1 7.6	8.0 7.9 10 7.6 6.7 7.2	7.9 6.7 7.9 7.9 	22 22 19 24 26 26	26 27 27 29 41	23 19 20 21 17	7.3 7.3 7.3 6.6 5.4	1.7 1.6 1.4 1.9 1.7	9.4 5.8 4.3 12 6.6	5.3 4.5 4.4 4.3 4.5
TOTAL MEAN MAX MIN AC-FT	342.2 11.0 16 7.8 679	344.1 11.5 15 8.3 683	329.7 10.6 17 5.8 654	309.9 10.0 16 6.7 615	262.3 9.04 12 6.5 520	464.7 15.0 26 8.9 922	942 31.4 41 23 1870	754 24.3 32 15 1500	282.1 9.40 20 3.2 560	142.2 4.59 19 1.4 282	158.39 5.11 30 .86 314	213.2 7.11 31 2.9 423
							BY WATER Y					
MEAN MAX (WY) MIN (WY)	11.0 11.0 2000 11.0 2000	11.5 11.5 2000 11.5 2000	10.6 10.6 2000 10.6 2000	10.0 10.0 2000 10.0 2000	9.04 9.04 2000 9.04 2000	15.0 15.0 2000 15.0 2000	31.4 31.4 2000 31.4 2000	66.9 109 1999 24.3 2000	35.3 61.2 1999 9.40 2000	13.1 21.6 1999 4.59 2000	17.1 29.0 1999 5.11 2000	10.8 14.6 1999 7.11 2000
SUMMARY	Y STATIST	ICS	FOR	1999 CALEN	DAR YEAR	F	OR 2000 WAT	ER YEAR		WATER Y	YEARS 1999	- 2000
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST 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 90 PERCENT EXCEEDS				410 1.7 6.4 86 17 8.9	Apr 30 Sep 26 Sep 23		4544.79 12.4 41 .86 1.1 181 6.42 9010 27 10 3.4	Apr 30 Aug 11 Aug 6 Aug 31 Aug 31		12.4 12.4 410 .8 1.1 666 7.1 9000 49 13 4.5	4 4 Apr: 36 Aug: 1 Aug Apr: 13 Apr:	2000 2000 30 1999 11 2000 6 2000 30 1999 30 1999

06709000 PLUM CREEK NEAR SEDALIA, CO

LOCATION.--Lat $39^{\circ}26^{\circ}18^{\circ}$, long $104^{\circ}58^{\circ}57^{\circ}$, in $NE^{1}/_{4}SE^{1}/_{4}$ 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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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

					DAILY	MEAN VA	LUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	20 20 20 20 20	21 23 26 23 31	20 17 23 e20 e21	27 24 23 18 25	14 16 20 17 18	15 17 17 19 21	56 59 e57 e59 e72	91 85 84 83 78	24 29 27 22 23	12 9.2 6.8 7.4 5.3	6.3 5.8 11 6.5 2.8	87 48 41 40 38
6 7 8 9 10	21 17 21 22 21	25 28 31 24 25	e22 e17 e26 e20 e17	20 31 28 22 26	15 14 15 14 15	18 19 22 19 18	e70 69 72 74 70	75 72 79 82 72	22 21 24 23 19	5.3 2.8 2.6 2.1 2.4	2.4 2.9 1.8 1.4	37 32 29 22 21
11 12 13 14 15	23 21 25 26 24	21 25 24 21 21	e20 e23 e28 27 19	29 34 25 26 26	16 17 14 17 21	19 20 21 22 30	69 66 63 61 63	63 59 57 54 51	17 13 12 11 7.2	2.3 6.5 9.9 7.2 6.9	1.4 1.5 8.3 14 3.6	15 10 11 9.5 8.4
16 17 18 19 20	25 24 27 32 29	21 24 23 27 22	30 25 24 19 23	24 27 26 27 24	13 12 17 11	35 29 35 33 40	62 60 57 57 55	48 56 60 53 48	8.8 15 13 8.7 5.9	7.3 31 19 12 9.3	2.1 9.8 14 17 16	8.4 8.4 9.3 8.8
21 22 23 24 25	27 25 19 25 22	23 24 21 e23 25	24 22 28 33 33	25 23 23 21 21	12 13 14 14 14	41 44 45 48	54 54 57 57 54	47 42 42 45 47	5.5 6.2 5.6 5.1 6.6	6.8 5.4 5.2 4.6 3.2	18 18 15 11 7.5	19 22 31 37 29
26 27 28 29 30 31	19 22 27 25 29 24	28 25 20 20 19	28 21 26 26 22 23	19 19 19 12 13 15	15 14 17 17 	50 54 52 53 47 54	54 55 55 55 114	45 38 31 23 21 21	13 17 12 11 6.7	2.6 2.6 3.1 4.7 6.8 7.6	26 29 20 35 25 46	26 23 19 15 16
TOTAL MEAN MAX MIN AC-FT	722 23.3 32 17 1430	714 23.8 31 19 1420	727 23.5 33 17 1440	722 23.3 34 12 1430	437 15.1 21 11 867	1005 32.4 54 15 1990	1880 62.7 114 54 3730	1752 56.5 91 21 3480	434.3 14.5 29 5.1 861	219.9 7.09 31 2.1 436	380.3 12.3 46 1.2 754	733.8 24.5 87 8.4 1460
MEAN MAX (WY) MIN (WY)	9.49 31.8 1943 1.32 1945	15.7 30.6 1943 3.34 1945	13.4 29.1 1943 5.00 1944	13.0 23.3 2000 4.09 1997	16.0 27.8 1944 5.71 1997	- 2000, 19.8 38.5 1998 6.62 1995	54.9 155 1998 15.7 1943	111 332 1944 5.06 1946	41.5 134 1947 2.70 1946	16.4 71.2 1947 1.59 1996	20.5 147 1945 .020 1996	7.41 24.5 2000 .000 1943
SUMMARY	STATISTI	.cs	FOR 1	.999 CALEN	DAR YEAR	F	OR 2000 WAT	TER YEAR		WATER YE	ARS 1942	- 2000
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			18137.8 49.7 479 8.7 11 35980 118 23 13	Apr 30 Jan 14 Jan 12		9727.3 26.6 114 1.2 1.8 190 2.72 19290 56 22 6.8	Apr 30 Aug 10 Aug 6 Aug 31 Aug 31		28.4 58.3 10.6 915 a.00 b,c7700 d6.52 20580 56 13	Jul Aug Aug	1947 1946 8 1945 11 1943 29 1943 8 1945 8 1945	

e Estimated.

No flow many days, also during most years.

a No llow many days, also during most years.

b Site and datum then in use, from rating curve extended above 350 ft³/s on basis of slope-area determination of peak flow.

c Highest flood of actual record probably occurred Jun 16, 1965. Discharge computed at Plum Creek near Louviers was 154,000 cfs.

d 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.

		DISCHAR	GE, CUBIC	C FEET PER		VATER YE MEAN VA	AR OCTOBER LUES	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e17 e9.4 e15 e18 e14	16 18 19 21 19	19 18 e19 e21 23	21 18 21 e16 e22	e22 e22 e22 e21 e21	18 19 23 21 25	49 60 65 58 56	84 80 74 82 71	26 23 22 22 20	8.1 6.8 4.8 2.6 e.20	e.20 e.20 e.10 .00	82 45 34 28 21
6 7 8 9 10	e15 e12 e14 15 14	18 19 20 19 18	e24 26 e23 e17 e13	20 22 26 23 22	e20 20 20 e20 e19	26 23 24 19 16	50 62 75 76 70	79 76 67 73 71	15 14 13 13	e.20 e.20 e.20 e.20 e.20	.00 .00 .00 .00	17 14 13 9.6 7.4
11 12 13 14 15	14 14 15 15	17 16 16 17 17	e17 e19 e24 e23 e16	22 22 19 21 25	e19 e19 19 20 22	16 18 19 22 24	65 63 64 70 63	63 64 61 67 62	12 11 9.6 9.4 8.0	e.20 e.20 e.20 e.20 e.20	.00 .00 .00 e.30	6.6 4.8 3.7 2.5 .69
16 17 18 19 20	20 26 21 17 15	18 18 16 16 17	e26 e21 e20 e16 e19	23 e23 e23 e23 e23	19 21 20 17 e18	38 24 21 21 24	74 65 68 69 69	59 56 64 60 57	7.4 12 11 9.6 7.7	e.20 12 15 8.8 6.0	.00 .00 e4.0 e13 e13	.00 .00 .00 .00
21 22 23 24 25	13 12 10 10	18 21 20 20 23	e20 e19 24 21 18	e23 e23 e23 e23 e23	e20 21 23 25 25	40 43 35 32 32	69 76 72 69 70	57 55 49 46 43	6.2 4.1 e3.6 e3.1 e4.6	3.1 .41 e.20 e.20 e.20	e14 e14 e12 e8.0 e4.0	3.3 4.0 7.0 22 28
26 27 28 29 30 31	11 12 12 13 15	25 24 21 20 21	23 e18 e22 e22 e19 e20	e23 23 e23 e23 e23 e22	19 21 18 17 	28 28 32 37 43 61	65 67 68 68 92	51 46 40 39 33 28	e10 e14 12 8.3 e6.7	e.20 e.20 e.20 e.20 e.20 e.20	e15 e19 e10 e23 e15 e10	19 13 12 12 12
TOTAL MEAN MAX MIN AC-FT	449.4 14.5 26 9.4 891	568 18.9 25 16 1130	630 20.3 26 13 1250	687 22.2 26 16 1360	590 20.3 25 17 1170	852 27.5 61 16 1690	2007 66.9 92 49 3980	1857 59.9 84 28 3680	350.3 11.7 26 3.1 695	71.81 2.32 15 .20 142	174.80 5.64 23 .00 347	422.37 14.1 82 .00 838
							BY WATER					
MEAN MAX (WY) MIN (WY)	12.6 71.8 1985 .000 1995	17.4 75.9 1985 2.15 1995	15.0 44.3 1985 4.40 1996	14.5 32.1 1998 4.86 1991	17.1 42.7 1988 5.14 1990	26.9 62.1 1988 6.55 1995	74.5 184 1998 18.9 1996	173 779 1984 10.4 1989	50.8 135 1984 5.89 1990	17.3 66.5 1995 .002 1993	17.5 63.4 1984 .000 1993	6.73 31.1 1984 .000 1990
SUMMAR	Y STATIST	ICS	FOR 1	1999 CALENI	DAR YEAR	F	OR 2000 WAS	TER YEAR		WATER Y	ZEARS 1984	- 2000
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN HOHEST ANNUAL MEAN HOHEST DAILY MEAN HOHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			27422.4 75.1 1430 3.0 8.4 54390 193 20 13	Apr 30 Sep 17 Sep 12		8659.68 23.7 92 .00 .00 152 c7.85 17180 63 19	Aug 4 Sep 1		32.5 73.6 7.8 1770 a.(. b2900 d8.(.23840 73 15	May 00 Jul 00 Jul Apr 05 Apr	1999 1996 15 1984 2 1989 2 1989 30 1999 30 1999	

e Estimated.

e Estimated. a No flow many days, most years. b From rating curve extended above 450 ft³/s. c Maximum gage height, 8.13 ft, Dec 10, backwater from ice. d Maximum gage height, 10.63 ft, Jun 28, 1995, datum then in use.

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

LOCATION.--Lat $39^{\circ}37^{\circ}57^{\circ}$, long $105^{\circ}00^{\circ}52^{\circ}$, in $SW^{1}/_{4}NW^{1}/_{4}$ 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 \mbox{mi}^{2} .

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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.

		DISCHAR	GE, CUBIC	, reel ren		MEAN VA	LUES	1999 10	SEPIEMDI	SR 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	38	69	81	41	46	151	373	232	201	102	53
2	63			82			177	384	241	202	145	43
3	67	81 84 80	78 92 90	81 83 72	40 41 43	46	168	240	267	171	90	40
4	63	84	92	83	41	46	162	275	267	185	73	38
5	61						160	374	265	216	92	37
6	64	80	86 77 66 67 69	60 50 44 43 45	44 49 65 61 67	44	137 127 128 129	350	269	186	92	26
7	59	80 81 86 87	77	50	49	51	127	359	270	138	101	21
8	40	81	66	44	65	54	128	437	291	139	88	23
9	38	86	67	43	61	50	129	229	334	140	40	21
10	34	87					120	284	369	156	25	17
11 12	37 38	84 75	70	51 58 56 54	66	58 58 58 57 70	131	360 254	367 337	198 175	24 56	19
12	38 35	75 51	70	58	67	58	131	254 212	337 278	155	56 89	20
14	35 29	51 50	69	56	68	58	127	205	218	210	62	16 20
15	31	55	56	56	66	70	131 131 127 114 118	227	191	201	50	20
16	57	76	E.6	E.6	6.1			250	194	170	57	16
17	55	74	56	56	65	134	117 119	343	209	671	349	18
18	47	71	58	56	73	89	130	291	107	390	214	23
19	84	72	55	63	61	85	126	73	149	141	186	24
20	75	76 74 71 72 72	53	56 56 56 63 69	58	83	119 130 126 120	291 73 90	272	148	146	90
21								143	150	161	62	45
22	55	118	52	71	60			198	279	135	43	50
23	55	117	56	71	62	81	100	231 234 249	259	142	47	72
24	56	77	54	71	58	80	93	234	202	118	73	90
25	52	118 117 77 76	54	74	56	99 83 81 80 80	, ,		203	99	141	51
26	37	79	54	72 83 72 65 66 60	57	80 81 82 120 110	84 136 278 324 402	233 230 229 227	243	84 68 43	255	55
27	33	77	55	83	57	81	136	230	307	68	91	49
28	31	75	70	72	57	82	278	229	354	43	241	46
29	35	76	86	65	56	120	324	227	185	71	193	73
30	36	74	86	66		110	402	229 227 224 235	143	71 109 95	51	136
31	33					172					54	
TOTAL	1536	2279	2070	1991 64.2 83 43	1669	2375	4397 147 402	8043 259 437	7452 248 369 107	5318 172 671 43	3332	1252
MEAN	49.5	76.0	66.8	64.2	57.6	76.6	147	259	248	172	107	41.7
MAX	84	118	92	83	73	172	402	437 73	369	671	349	136
MIN	29	38	52	43	40	44		73	107	43	24	16
AC-FT	3050	4520	4110	3950	3310	4710	8720	15950	14780	10550	6610	2480
STATIST	ICS OF MO	NTHLY MEA	N DATA FO	OR WATER Y	EARS 1996	- 2000,	BY WATER	YEAR (WY)				
MEAN	68.3	61.3	45.4	43.1	47.7	63.3	184	458	508	347	306	74.7
MAX	111	83.5	76.4	73.6	66.6	112	403	932	1222	550	485	96.0
(WY)	1999	1998	1998	1998	1998	1998	1998	1998	1999	1999	1999	1998
MIN	30.5	28.5	45.4 76.4 1998 14.7 1999	12.7	20.0	27.1	89.8	158	205	172	107	41.7
(WY)	1997	1999	1999	1997	1999	1996	1997	1996	1996	2000	1996	2000
SUMMARY	STATISTI	CS	FOR 1	1999 CALEN	DAR YEAR	F	OR 2000 WA	TER YEAR		WATER YEA	RS 1996	- 2000
ANNUAL	TOTAL			108201.4			41714					
ANNUAL	MEAN			296			114			207		
HIGHEST	ANNUAL N	IEAN								293		1999
	ANNUAL ME									114		2000
	DAILY ME			1940	Jun 18		671	Jul 17		1940	Jun 1	
	DAILY MEA			9.4	Feb 24		16 18	Sep 13		3.3	Apr 2	1996
		MINIMUM		9.4 12	Jan 9			Sep 10		114 1940 3.3 8.7 2150 14.19 149600	Mar	5 1996
	ANEOUS PE	AK FLOW AK STAGE					1820	Aug 17 Aug 17		∠±5U 1.4 1.0	May 2 May 2	28 1999
		AC-FT)		214600			82740	Aug 1/		14.19	ridy 2	.U 1333
	ENT EXCEE			1030			249			515		
	ENT EXCEE			72			76			79		
	ENT EXCEE			19			41			16		

06710385 BEAR CREEK ABOVE EVERGREEN, CO

LOCATION.--Lat $39^\circ37^\circ58^\circ$, long $105^\circ19^\circ59^\circ$, in $\mathrm{SE}^1/_4\mathrm{NE}^1/_4$ 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 with satellite telemetry. Elevation of gage is 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.

	DISCHAR	GE, CUBIC	C FEET PER		WATER YEA MEAN VAI	AR OCTOBER LUES	1999 TO	SEPTEMBE	R 2000		
DAY OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 35 2 33 3 32 4 31 5 31	26 20 27 24 24	e16 e16 e15 e14 e15	e14 e14 e13 e14 e15	e13 e14 e15 e14 e14	e15 e15 e13 e15 e15	e17 e19 e22 e24 30	46 48 53 57 60	39 39 36 35	e23 e23 e25 e25	e19 e20 e20 e27 e23	e34 e27 e24 e23
6 31	24	e15	e15	e14 e15	e15	29	61	e31	e21 e18	e23 e19	e21 e19
7 38 8 39 9 37 10 35	23 24 24 22	e16 e15 e13 e12	e15 e16 e15 e13	e17 e17 e19 e18	e16 e17 e16 e14	27 24 26 28	57 60 53 51	e27 e27 e29 e30	e16 e16 e18 e24	e18 e17 e16 e15	e18 e20 e19 e18
11 33 12 31 13 30 14 30 15 29	23 22 21 22 22	e12 e13 e13 e13 e11	e15 e16 e15 e14 e15	e17 e16 e16 e16 e17	e15 e15 e17 e17 e18	25 26 27 28 30	51 47 41 42 40	e33 e30 e27 e26 e26	e20 e19 e28 e22 e19	e15 e16 e19 e18 e16	e19 e18 e18 e16 e17
16 30 17 26 18 33 19 30 20 31	21 22 21 e14 e15	e12 e11 e11 e12 e13	e16 e17 e16 e16 e15	e16 e16 e15 e14 e15	e16 e17 e17 e15 e18	27 29 33 32 27	40 42 41 40 44	e26 e34 e36 e29 e33	e20 e109 e60 e41 e36	e16 e18 e28 e24 e18	e17 e17 e16 e17 e26
21 30 22 29 23 29 24 28 25 28	e15 e16 e11 e12 e13	e12 e11 e12 e12 e13	e15 e14 e13 e14 e15	e16 e16 e15 e16 e15	e17 e16 e16 e18 e17	30 35 41 39 36	42 42 45 44 47	e30 e26 e25 e25 e27	e34 e31 e33 e29 e27	e17 e19 e25 e27 e28	e30 e38 e36 e41 e41
26 27 27 27 28 26 29 27 30 24 31 26	e14 e15 e14 e15 e16	e14 e15 e15 e16 e16 e15	e14 e14 e13 e13 e14 e13	e14 e15 e15 e14	e18 e17 e18 e18 e17 e17	37 40 46 46 58	45 40 38 42 42 41	e37 e45 e38 e32 e27	e29 e37 e42 e46 e46 e38	e27 e39 e34 e46 e43 e31	e45 e44 e33 e23 e17
TOTAL 946 MEAN 30.5 MAX 39 MIN 24 AC-FT 1880	582 19.4 27 11 1150	419 13.5 16 11 831	451 14.5 17 13 895	450 15.5 19 13 893	506 16.3 18 13 1000	938 31.3 58 17 1860	1442 46.5 61 38 2860	940 31.3 45 25 1860	975 31.5 109 16 1930	718 23.2 46 15 1420	752 25.1 45 16 1490
STATISTICS OF	MONTHLY MEA	N DATA FO	OR WATER Y	EARS 1985	- 2000,	BY WATER	YEAR (WY)				
MEAN 29.5 MAX 85.1 (WY) 1985 MIN 16.0 (WY) 1995	24.0 56.2 1985 9.65 1993	16.9 32.8 1985 8.67 1995	14.1 19.6 1998 9.00 1995	13.1 18.2 1996 8.68 1994	16.4 26.7 1992 9.57 1995	37.3 89.7 1987 13.9 1991	101 238 1998 44.1 1993	109 280 1995 31.3 2000	61.8 134 1995 27.5 1994	54.6 129 1999 20.1 1994	35.0 54.2 1997 17.2 1994
SUMMARY STATIS	STICS	FOR 1	.999 CALEN	DAR YEAR	FO	OR 2000 WA	TER YEAR		WATER YEA	ARS 1985	- 2000
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST 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			23156.9 63.4 417 e9.9 e10 45930 167 27 12	May 26 Apr 2 Feb 17		9119 24.9 109 e11 e12 e,a171 3.66 18090 41 22 14	Jul 17 Nov 23 Dec 15 Jul 17 Jul 17		42.8 70.5 22.5 421 7.8 8.0 573 5.39 31040 94 26	Mar Dec Jun 1	1998 1993 18 1995 6 1995 9 1994 18 1995 18 1995

e Estimated.

a Peak for year occurred during period of estimated record.

06710500 BEAR CREEK AT MORRISON, CO

LOCATION.--Lat $39^\circ39^\circ11^\circ$, long $105^\circ11^\circ43^\circ$, in $SE^1/_4SW^1/_4$ 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.

PERIOD OF RECORD.--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 period Dec. 4 to Feb. 26, which are fair, and estimated daily discharges, which are poor. Small diversions for irrigation of about 1,000 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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

		DIDCHIN	OL, CODIC	, ibbi ibi		MEAN VA		1000 10	obi ibribb	10 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	39 38 37 35 35	34 25 33 29 32	23 24 21 e18 e15	e21 e20 e20 e20 e20	e16 e18 e20 e20 e20	18 21 17 20 22	26 26 25 37 48	55 57 59 61 66	35 34 33 30 32	18 18 18 18 15	12 12 13 17 19	41 32 27 26 17
6 7 8 9 10	35 37 48 42 39	28 29 30 30 26	e20 22 22 e18 e20	e20 e20 e20 e20 e20	e20 e20 20 20 19	20 22 19 17 16	53 47 42 44 43	67 61 67 64 58	29 26 24 25 24	14 13 13 14 18	15 12 11 11	20 18 19 17 16
11 12 13 14 15	39 38 36 36 34	29 25 25 24 25	e22 e21 24 e23 e23	e20 e20 e20 e19 19	18 e18 e18 19 22	15 17 17 17 19	42 42 41 43 44	54 52 43 44 41	26 26 24 21 21	20 16 21 18 16	9.8 10 14 15	14 14 13 13
16 17 18 19 20	38 31 e39 39 39	24 25 28 17 22	e23 23 21 22 e20	20 21 20 22 21	20 20 18 e18 20	15 22 22 17 25	42 43 46 45 40	40 42 42 41 40	19 29 31 24 22	14 80 60 37 30	12 16 33 27 17	13 12 12 13 17
21 22 23 24 25	40 39 38 36 36	28 24 e16 e19 e30	e17 e16 e18 20 21	21 19 e18 e18 e17	21 23 21 21 20	18 19 22 25 26	41 45 59 52 47	39 37 38 38 42	23 19 18 18 19	25 21 19 17 16	14 15 18 19 20	23 23 24 28 25
26 27 28 29 30 31	35 35 32 35 30 31	36 34 26 25 24	20 20 20 21 21 e21	e17 e17 e15 e15 e15 e16	e14 20 21 21 	24 24 26 25 24 23	47 48 53 54 72	41 38 36 36 38 37	28 39 34 29 22	15 17 16 16 14 13	19 28 29 35 40 35	25 22 19 19 19
TOTAL MEAN MAX MIN AC-FT	1141 36.8 48 30 2260	802 26.7 36 16 1590	640 20.6 24 15 1270	591 19.1 22 15 1170	566 19.5 23 14 1120	634 20.5 26 15 1260	1337 44.6 72 25 2650	1474 47.5 67 36 2920	784 26.1 39 18 1560	660 21.3 80 13 1310	569.8 18.4 40 9.8 1130	594 19.8 41 12 1180
STATIST	CICS OF MC	NTHLY MEA	N DATA FO	OR WATER Y	EARS 1900	- 2000,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	31.3 115 1985 9.52 1935	23.7 86.7 1924 9.59 1957	17.1 57.0 1924 7.31 1940	13.9 34.0 1924 5.19 1950	14.4 36.0 1924 4.00 1933	20.3 48.3 1960 4.00 1933	53.8 296 1942 13.1 1982	149 525 1973 12.4 1963	138 551 1949 11.5 1954	72.5 249 1949 5.72 1963	64.7 307 1923 6.58 1978	43.8 371 1938 5.41 1978
SUMMARY	STATISTI	CS	FOR 1	1999 CALEN	DAR YEAR	F	OR 2000 WA	TER YEAR		WATER Y	EARS 1900	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN A		27786.2 76.1 658 6.3 12 55110 187 36 14	May 28 Apr 11 Feb 17		9792.8 26.8 80 9.8 11 122 4.96 19420 42 22 15	Jul 17 Aug 11 Aug 7 Jul 17 Jul 17		53.1 125 14.6 1410 a.86 3.0 e8600 38490 120 26 11	May O Nov 2 Mar	1942 1954 7 1969 26 1939 1 1933 24 1896
	_											

e Estimated. a Result of freezeup.

06710605 BEAR CREEK ABOVE BEAR CREEK LAKE NEAR MORRISON, CO

 $\label{location.--Lat 39°39'08", long 105°10'23", 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 with satellite telemetry. 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.

		DISCHAR	GE, CUBIC	C FEET PER		WATER YE	- EAR OCTOBER ALUES	1999 TO) SEPTEMBE	R 2000		-
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	32 30 29 27 26	22 16 22 21 23	27 28 27 e26 e27	25 25 e25 e26 e27	e24 26 24 23 22	18 22 18 21 22	5.2 5.8 6.4 11 30	45 43 38 42 44	12 10 8.8 7.5 7.9	6.8 5.9 5.3 6.3	3.9 4.0 4.7 9.1	27 15 11 9.5 7.7
6 7 8 9 10	25 27 39 33 30	21 22 23 23 20	28 27 e27 e29 e28	e27 e27 e26 e26 22	22 21 22 21 21	16 12 10 7.8 6.8	30 23 21 24 24	46 43 48 50 45	7.0 6.6 5.2 2.3 .88	6.0 5.6 5.4 5.8 7.7	7.4 4.6 3.4 3.1 2.8	7.9 8.1 9.1 9.0 7.4
11 12 13 14 15	27 25 24 23 21	22 20 20 20 20	e28 26 28 25 e24	25 26 23 23 22	20 20 20 20 20 23	6.2 8.2 8.2 7.9 9.8	22 18 16 17 18	39 33 25 26 24	2.0 4.0 4.8 4.0 3.7	9.4 6.3 11 8.4 6.3	2.9 3.1 6.4 8.3 4.5	7.4 7.9 7.3 6.8 6.6
16 17 18 19 20	26 21 23 15 17	20 22 25 16 20	27 28 27 e24 e20	23 24 23 25 25	21 21 21 21 19	5.5 12 13 7.8 15	17 18 21 22 20	22 31 32 27 27	3.1 8.9 12 5.6 3.5	5.5 62 44 18 11	3.4 8.0 25 17 7.6	5.5 5.1 5.2 5.6
21 22 23 24 25	17 15 14 12 12	26 25 e22 e22 e27	e20 e19 e20 21 23	24 23 20 20 21	22 23 21 22 20	9.1 9.3 12 15 15	18 19 36 31 23	24 21 23 23 26	7.8 7.5 6.4 8.4	11 9.8 8.3 8.3 7.9	5.9 7.9 11 13 14	13 8.5 9.3 12 9.0
26 27 28 29 30 31	18 21 19 20 18 20	36 36 28 28 28	23 24 25 25 25 25 24	21 23 e22 e23 e23 e23	15 21 22 21 	13 11 12 8.6 5.5 4.1	23 23 28 30 56	26 20 20 23 23 20	16 17 11 9.4 8.8	7.0 8.1 8.0 8.5 6.2 4.8	12 19 17 19 25 20	9.4 7.7 5.7 7.7 12
TOTAL MEAN MAX MIN AC-FT	706 22.8 39 12 1400	696 23.2 36 16 1380	780 25.2 29 19 1550	738 23.8 27 20 1460	619 21.3 26 15 1230	361.8 11.7 22 4.1 718	656.4 21.9 56 5.2 1300	979 31.6 50 20 1940	223.08 7.44 17 .88 442	331.1 10.7 62 4.8 657	303.0 9.77 25 2.8 601	275.4 9.18 27 5.1 546
							, BY WATER			46.5	20 5	01 5
MEAN MAX (WY) MIN (WY)	17.4 38.8 1998 4.34 1990	18.0 44.9 1998 .38 1990	19.0 33.8 1998 9.50 1995	17.1 32.3 1998 1.69 1995	16.3 25.1 1998 .23 1995	19.5 47.0 1998 1.26 1995	52.4 191 1998 2.83 1989	134 382 1998 6.95 1989	120 512 1995 7.44 2000	46.7 216 1995 5.23 1989	38.7 127 1999 2.80 1989	21.5 58.7 1997 4.17 1989
SUMMARY	STATISTI	CS	FOR 1	1999 CALEN	DAR YEAR	F	FOR 2000 WA	TER YEAR	2	WATER Y	EARS 1986	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN AN N MINIMUM AK FLOW AK STAGE C-FT) DS DS		26451.84 72.5 647 .73 1.3 52470 193 27 6.6	May 26 Mar 18 Mar 16		3.1 98	Jul 11 Jun 10 Jun 10 Jul 11 Jul 11)) 7	44.3 96.1 10.4 684 .1 .1 841 6.4 32120 98 20 4.2	Jun 0 Feb 6 Feb Jun	1995 1989 18 1995 23 1995 22 1995 9 1995 9 1995

e Estimated.

06710995 TURKEY CREEK AT MOUTH OF CANYON NEAR MORRISON, CO

LOCATION.--Lat $39^\circ37^\circ13^\circ$, long $105^\circ11^\circ41^\circ$, in $NE^1/_4NW^1/_4$ sec.14, T.5 S., R.70 W. , Jefferson County, Hydrologic Unit 10190002, on left bank 0.45 mi above county road 48, and 2.7 mi south of Morrison.

DRAINAGE AREA. -- 47.4 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 6,050 ft above sea level, from topographic map.

REMARKS.--Records poor. Natural flow of stream affected by several diversions for irrigation, upstream of 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.

		DISCHA	RGE, CUBIO	C FEET PER		WATER YE Y MEAN VA		R 1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5				1.3 1.4 1.4 1.3							.00 .00 .00 .00	2.0 1.1 .60 .25 .11
6 7 8 9 10	2.9 3.9 3.3 3.1 3.2	.59 .61 .81 .93	e.70 e.82 e.80 e.89 e1.0	1.3 1.2 1.3 1.4	1.2 1.2 1.2 1.4	4.9 7.0 4.8 2.8 1.1	66 28 19 18 13	e9.5 e8.8 e8.0 e17 e12	1.4 1.1 .70 .38 .05	.00 .00 .00 .00	.00 .00 .00 .00	.09 .08 .07 .07
11 12 13 14 15	3.6 4.1 3.8 2.5 .47	1.3 .68 .53 .53	1.2 1.1 1.3 1.2 1.0	1.5 1.7 1.7 1.5	1.3 1.2 1.2 .95 .93	1.4 1.9 1.6 2.7 1.6	28 18 26 19 e11	e11 e9.5 e8.2 e7.8 e7.4	.05 .17 .06 .07	.00 .00 .00 .00	.00	.05 .04 .03 .02
16 17 18 19 20	.36 .52 .92 .89	.61 .89 .97 .47		1.8 2.3 2.7 3.0 3.3	.77 .67 .71 .61 .69	.53 1.7 2.2 2.7 1.9	e12 e14 e13 e10 e12	e7.1 e6.8 e10 e8.6 e7.7	.06 .09 .09 .07	.00 1.4 1.9 .55 .24	.00 .00 3.9 3.0 .75	.00 .00 .00 .00
21 22 23 24 25	1.6 1.1 .69 .84	.78	1.0 1.1 1.2 1.2	3.3 2.4 2.1 2.3 1.8	.63 .63 .52 .46	1.1 2.0 7.5 11	e14 e10 e25 e15 e17	e6.6 e5.6 e5.0 e3.0 e3.4	.04 .03 .02 .01	.00 .00 .00 .04 .03	.28 .12 .11 .09	.01 .03 .04 .07
26 27 28 29 30 31		1.7 1.4 1.2 1.2 1.5	1.2 1.3 1.4 1.4 1.4	1.8 1.6 1.6 e1.6 e1.6 e1.5	.43 .27 .61 .76	17 19 19 24 5.8 .88	e17 e15 e13 e14 e25	e3.4 e3.2 e2.7 e2.4 e2.1 e1.9	.14 .91 1.1 .10 .08	.00 .00 .00 .00	.00 .02 .04 2.9 1.8 1.2	.10 .07 .06 .06
TOTAL MEAN MAX MIN AC-FT	56.32 1.82 4.1 .36 112	28.24 .94 2.7 .41 56	34.33 1.11 1.4 .49 68	56.0 1.81 3.3 1.2 111	26.79 .92 1.4 .27 53	174.01 5.61 24 .53 345	18.7	239.7 7.73 17 1.9 475	14.25 .47 1.7 .01 28	4.28 .14 1.9 .00 8.5	14.24 .46 3.9 .00 28	5.19 .17 2.0 .00 10
				OR WATER Y								
MEAN MAX (WY) MIN (WY)	1.12 1.82 2000 .43 1999	2.70 4.45 1999 .94 2000	1 11	1.49 1.81 2000 1.18 1999	1.42 1.93 1999 .92 2000	3.45 5.61 2000 1.29 1999	45.9 101 1998 17.5 1999	54.3 80.4 1998 7.73 2000	10.2 17.6 1999 .47 2000	1.22 1.78 1998 .14 2000	5.77 12.1 1999 .46 2000	.98 2.25 1999 .17 2000
SUMMARY	STATIST	ICS	FOR 1	1999 CALEN	DAR YEAR	R F	OR 2000 W	ATER YEAR		WATER Y	EARS 1998	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT ANNUAL 10 PERC	MEAN T ANNUAL M T DAILY ME DAILY ME SEVEN-DA TANEOUS P TANEOUS P	EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		4120.45 11.3 177 .18 .58 8170 29 1.4 .59	May 1 Sep 29 Sep 13	3	1215.1 3.3 68 .0 .0 218 5.6 2410 11 1.2	Apr 5 0 Jul 5 0 Jul 5 Apr 5 5 Apr 5		7.34 11.5 3.33 177 .00 .248 6.10 5350 36 1.5	May May 2 0 Jul 0 Jul May 2 6 May 2	1999 2000 1 1999 5 2000 5 2000 25 1999 25 1999

e Estimated.

06711500 BEAR CREEK AT MOUTH, AT SHERIDAN, CO

LOCATION.--Lat $39^{\circ}39^{\circ}08^{\circ}$, long $105^{\circ}01^{\circ}57^{\circ}$, in $NW^{1}/_{4}NW^{1}/_{4}$ 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.--No estimated daily discharges. Records good except for Jan. 4,7, and May 23 to June 13, 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.

		DISCHAR	GE, CUBIC	FEET PER		WATER YE MEAN VA	AR OCTOBER LUES	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	43 43 38 65 70	14 18 14 12 9.3	56 12 25 35 34	32 32 34 34 32	26 29 31 32 31	26 27 28 26 28	25 34 33 26 40	82 68 57 58 55	22 19 17 13 14	11 8.3 7.1 6.2 5.5	4.8 6.1 6.4 6.4 7.2	41 35 29 19 18
6 7 8 9 10	12 13 35 42 41	11 13 23 28 32	33 37 37 32 28	31 28 30 32 31	31 30 30 31 30	28 25 22 18 15	58 51 40 39 42	57 59 87 93 71	13 10 7.6 7.7 5.9	5.5 6.4 6.3 6.8 6.6	8.4 7.9 7.5 7.6 6.0	16 14 12 9.3 8.8
11 12 13 14 15	45 43 57 135 153	32 33 32 31 31	31 31 32 32 30	32 32 31 30 31	30 27 29 28 29	14 13 14 12 16	33	57 51 49 43 41	4.5 5.1 5.3 5.1 5.1	7.2 7.1 5.6 6.9 5.8	6.8 5.6 6.4 5.7 6.9	8.6 8.1 7.6 7.9 8.6
16 17 18 19 20	130 117 66 26 23	30 30 31 32 27	32 35 34 33 30	31 33 33 33 35	29 29 30 27 27	27 21 21 18 19	35 29 36 39 39	35 55 74 54 54	6.2 15 14 15 12	35 87 76 41 24	7.9 16 14 15 18	7.9 7.5 7.0 10 23
21 22 23 24 25	21 20 19 19	33 43 35 28 28	31 31 32 33 32	34 31 30 28 30	29 31 30 29 27	23 20 18 20 22	31 32 47 53 45	46 40 32 34 43	9.8 9.2 8.7 7.9 8.3	18 14 11 8.5 7.1	19 18 11 9.4 9.2	12 17 28 32 22
26 27 28 29 30 31	16 9.8 10 12 12	39 45 42 40 72	31 30 30 31 32 32	32 38 33 28 24 24	21 21 26 27 	21 20 20 26 19 33	41 40 42 50 103	41 35 29 24 25	22 26 24 20 15	6.9 6.6 6.9 6.9 6.0	12 17 25 39 33 44	22 20 18 17 15
TOTAL MEAN MAX MIN AC-FT	1365.8 44.1 153 9.8 2710	888.3 29.6 72 9.3 1760	994 32.1 56 12 1970	969 31.3 38 24 1920	827 28.5 32 21 1640	660 21.3 33 12 1310	1207 40.2 103 25 2390	1574 50.8 93 24 3120	367.4 12.2 26 4.5 729	464.1 15.0 87 5.5 921	407.2 13.1 44 4.8 808	501.3 16.7 41 7.0 994
							BY WATER Y					
MEAN MAX (WY) MIN (WY)	24.0 151 1985 1.52 1955	23.8 99.8 1985 3.53 1955	22.0 61.3 1985 8.21 1951	20.0 46.3 1970 3.85 1945	19.5 43.5 1942 5.09 1945	22.4 94.4 1960 5.35 1935	54.5 394 1942 3.33 1935	155 859 1973 1.16 1963	106 630 1949 1.67 1966	38.0 238 1983 1.77 1963	39.8 255 1984 3.05 1954	25.3 256 1938 1.82 1956
SUMMAR	Y STATIST	rics	FOR 1	.999 CALEN	DAR YEAR	F	OR 2000 WAT	TER YEAR		WATER YE	ARS 1927	- 2000
ANNUAL HIGHES LOWEST HIGHES LOWEST ANNUAL INSTAN ANNUAL 10 PER 50 PER	T ANNUAL ANNUAL M T DAILY M DAILY ME SEVEN-DA TANEOUS F	IEAN IEAN IEAN IAN IY MINIMUM IEAK FLOW IEAK STAGE AC-FT) IEDS IEDS		33664.3 92.2 629 5.5 7.1 66770 236 36 12	May 28 Apr 11 Mar 20		10225.1 27.9 153 4.5 5.3 515 4.40 20280 45 28 7.1	Oct 15 Jun 11 Jun 10 Jul 16 Jul 16		46.3 157 6.53 4020 .00 .33 a8150 10.50 33570 99 17 6.0	May Jul May May	1983 1954 7 1969 13 1954 23 1963 7 1969 7 1969

a Present datum, from floodmarks, from rating curve extended above 3400 $\mathrm{ft}^3/\mathrm{s}.$

06711565 SOUTH PLATTE RIVER AT ENGLEWOOD, CO

LOCATION.--Lat $39^\circ39^\circ54^\circ$, long $105^\circ00^\circ13^\circ$, in $NW^1/_4NE^1/_4$ 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.

	-	DISCHAR	GE, CUBIC	FEET PER	R SECOND, W	VATER YE	AR OCTOBER	1999 TO	SEPTEMBE	R 2000		
					DAILY	MEAN VA	LUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	123 120	61 86	133 93	120 121	76 81	85 85	204 252	507 500	323 336	209 215	109 154	115 92
3	117	105	114	125	84	89	240	317	365	177	105	83
4 5	135 148	106 100	145 133	122 114	83 83	84 86	213 227	344 454	367 371	189 228	99 105	68 67
6	93	104	125	101	83	85	229	434	369	203	105	56
7	89 90	102 112	120 110	91 87	86 101	89 96	207 188	439 637	374 400	149 151	112 105	46 43
9	95	123	106	88	102	82	182	364	444	151	60	43
10	92	127	103	88	104	81	189	347	462	170	41	37
11 12	97 95	126 120	105 104	93 99	103 101	84 85	190 189	443 327	432 376	225 210	36 66	37 39
13	105	92	104	98	103	86	189	266	303	191	108	35
14 15	168 189	90 92	103 95	95 97	102 103	82 105	181 221	252 264	224 183	235 243	80 64	37 40
16	210	113	96	98	101	197	222	282	194	225	78	37
17 18	195 132	112 114	98 97	98 99	103 118	171 128	213 240	456 459	239 119	1070 554	525 432	35 39
19	133	114	96	105	104	110	250	136	148	185	237	44
20	117	110	94	112	95	113	252	149	296	174	176	159
21 22	104 89	117 191	94 95	112 109	96 98	139 117	204 225	193 238	146 295	186 149	93 75	69 84
23 24	88 89	171 120	98 96	108 107	106 95	106 105	253 249	266 280	275 201	156 133	70 90	124 160
25	87	115	95	112	93	107	233	334	201	114	142	86
26	70	128	95	115	90	106	216	298	287	101	293	86
27 28	56 55	133 126	96 107	135 116	89 92	106 106	257 420	282 277	340 410	88 60	118 296	75 71
29 30	59 59	124 147	122 126	102 98	93	163 148	463 690	282 295	200 146	81 121	302 98	86 153
31	56	147	118	94		265		318	140	107	131	
TOTAL	3355	3481	3316	3259	2768	3491	7488	10440	8829	6450	4505	2146
MEAN MAX	108 210	116 191	107 145	105 135	95.4 118	113 265	250 690	337 637	294 462	208 1070	145 525	71.5 160
MIN AC-FT	55 6650	61 6900	93 6580	87 6460	76 5490	81 6920	181 14850	136 20710	119 17510	60 12790	36 8940	35 4260
							BY WATER			12790	8940	4200
MEAN MAX	157 1050	164 733	98.4 268	82.6 216	86.7 166	133 261	382 1074	882 2576	785 2479	563 2337	437 1574	160 724
(WY) MIN	1985 44.8	1985 39.3	1985 48.9	1985 45.4	1985 35.5	1983 51.7	1984 123	1987 209	1995 243	1995 79.0	1984 98.8	1984 43.7
(WY)	1993	1990	1995	1991	1991	1991	1991	1989	1990	1994	1994	1992
SUMMARY	STATISTI	CS	FOR 1	.999 CALEN	IDAR YEAR	F	OR 2000 WA	TER YEAR		WATER YEA	ARS 1983	- 2000
ANNUAL				158482			59528			224		
ANNUAL HIGHEST	MEAN 'ANNUAL M	IEAN		434			163			304 692		1984
	ANNUAL ME			3020	May 29		1070	Jul 17		124 4010	Tun 2	1993 8 1995
LOWEST	DAILY MEA	AN		44	Feb 20		35	Sep 13		20	Sep 1	.3 1994
INSTANT	ANEOUS PE			46	Feb 19		2330	Sep 11 Aug 17		20 24 a9710 7.21 220400	Jun	.3 1994 4 1995
	ANEOUS PE RUNOFF (A	AK STAGE		314300			4.14 118100	Aug 17		7.21	Jun	4 1995
10 PERC	ENT EXCEE	DS		1430			317			781		
	ENT EXCEE			117 56			114 79			140 51		

a $\,$ 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.

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

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

REMARKS.--Water temperature record is fair. Specific conductance record is fair. pH record is fair. Dissolved oxygen record is fair. Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

EXTREMES FOR PERIOD OF DAILY RECORD.

SPECIFIC CONDUCTANCE: Maximum, 1410 microsiemens, Feb. 18, 2000; minimum, 139 microsiemens, Aug. 17, 2000. 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

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, 1410 microsiemens, Feb. 18; minimum, 139 microsiemens, Aug. 17.
pH: Maximum, 9.2 units, May 31; minimum, 7.3 units, June 17.
WATER TEMPERATURE: Maximum, 26.4°C, Aug. 10, 11; minimum, 0.0°C, Jan 4, 6.
DISSOLVED OXYGEN: Maximum, 16.4 mg/L, Jan. 23; minimum, 4.2 mg/L, Aug. 11.

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		D	ECEMBER			JANUARY	
1 2 3 4 5	14.0 14.1 14.5 14.1 14.3	6.2 6.3 6.9 6.6	9.5 9.9 10.0 10.3	16.2 14.9 14.6 14.9 16.0	7.5 8.6 8.5 8.2 8.2	10.7 10.6 10.5 10.6 11.3	11.9 12.6 11.9 12.1 12.4	8.8 8.7 8.7 9.7 9.9	10.2 10.0 10.2 10.6 10.8	13.0 13.3 12.8 13.0 13.2	9.5 9.4 9.7 9.9 9.8	10.5 10.7 11.0 11.3 11.0
6 7 8 9 10	15.4 12.5 16.1 14.9 14.3	5.5 5.5 6.8 7.1 6.7	9.7 8.7 10.8 10.4 9.9	15.0 15.2 14.3 13.6 13.5	8.2 8.0 7.1 7.9 8.2	10.9 10.3 9.9 9.8 10.0	12.4 12.9 	9.6 9.6 	10.5 10.6 	13.5 13.6 13.3 13.1 12.9	10.2 9.9 9.5 9.5 9.5	11.4 11.2 10.8 10.7 10.6
11 12 13 14 15	14.5 13.9 12.5 10.0 10.1	6.1 5.6 5.1 5.2 7.6	9.4 9.0 8.0 7.8 8.3	12.8 13.6 14.0 13.7 13.5	8.3 8.4 8.3 8.3	9.8 10.3 10.3 10.2	 	 	 	13.5 13.6 13.7 13.9 14.2	9.6 9.5 9.9 10.1 9.8	10.9 10.8 11.2 11.4 11.2
16 17 18 19 20	10.0 10.9 10.0 11.6 12.1	7.7 8.6 8.4 8.2 8.0	8.8 9.6 9.0 9.4 9.4	13.2 13.3 12.9 13.2 12.8	8.3 8.1 8.0 9.0 8.5	10.0 9.8 9.8 10.5 10.1	14.1 13.6 14.2	10.2 10.1 10.7	11.4 11.5 11.6	14.5 14.4 14.1 14.9 14.9	9.8 9.7 9.6 9.7 9.9	11.2 11.3 11.0 11.3 11.4
21 22 23 24 25	12.8 13.1 13.8 15.2 15.7	7.7 7.5 8.3 8.3 8.0	9.5 9.8 10.2 10.4 10.8	13.0 11.8 13.4 13.8 13.3	8.4 9.2 9.8 10.4 10.0	10.0 10.6 11.2 11.6 11.4	13.0 13.8 13.5 13.8 13.9	10.5 10.6 10.2 10.2 10.1	11.3 11.7 11.3 11.3	14.5 15.4 16.4 15.4 14.1	9.9 9.8 10.2 10.1 9.9	11.3 11.4 11.9 11.8 11.4
26 27 28 29 30 31	16.0 15.8 14.3 15.7 15.5	7.9 7.3 7.1 8.1 7.9	10.7 10.4 9.8 10.8 10.6	13.1 13.1 13.1 13.1 12.7	9.1 9.2 9.4 9.4 9.2	10.5 10.4 10.6 10.6 10.2	13.9 13.8 13.7 13.0 13.4	10.1 10.1 9.8 9.7 9.7 9.6	11.3 11.2 11.2 10.9 11.0	14.0 13.9 14.6 14.0 14.1 14.3	10.4 10.5 10.2 10.1 10.7 10.4	11.5 11.4 11.7 11.5 11.7
MONTH	16.1	5.1	9.7	16.2	7.1	10.4	14.2	8.7	11.0	16.4	9.4	11.2

06711565 SOUTH PLATTE RIVER AT ENGLEWOOD, CO--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	14.3 14.1 14.2 14.5 13.8	10.3 9.9 9.8 9.8 9.7	11.6 11.3 11.2 11.5 11.2	15.7 14.3 15.5 15.3 14.7	8.6 8.6 8.5 8.2	11.3 10.7 11.4 11.0 10.7	11.6	8.2 8.4 8.7 7.4 7.5	9.9 9.7 10.4 9.6 9.2	10.0 9.9 9.6	7.5 7.6 7.7	 8.7 8.6 8.6
6 7 8 9 10	14.5 14.4 14.1 14.0 14.2	9.1 9.1 9.4 9.4 9.4	11.3 11.0 11.0 10.8 11.0	14.8 14.4 14.6 12.9 13.6		10.8 10.5 10.4 9.9 10.9	12.1 12.6 13.0 12.7 13.0	7.6 7.7 7.4 7.4 7.6	9.2 10.0 10.1 9.7 9.8	9.7 9.7 8.6 9.2 9.4	7.7 7.8 8.0 7.0	8.6 8.4 8.3 8.4 8.1
11 12 13 14 15	13.9 13.7 14.9 15.0 15.0	9.2 9.6 9.4 9.2	10.9 11.2 11.4 11.7 11.3	13.8 13.8 13.7 13.8 11.2	8.3 8.1 8.1 7.9 7.7	10.7 10.3 10.5 10.2 9.9	13.5 13.5 13.7 13.6 11.5	7.4 7.1 7.0 6.8 7.3	10.1 9.8 9.6 9.4 9.3	9.0 9.7 10.1 9.8 10.0	7.6 7.6 7.5 7.5 7.3	8.2 8.7 8.8 8.5 8.3
16 17 18 19 20	15.1 13.1 13.6 14.3 14.6	9.4 9.2 10.1 9.6 9.4	11.4 10.8 11.5 11.4 11.3	11.9 12.0 12.4 12.7 11.6	8.3 8.3 8.1	10.5 10.0 10.2 10.3 9.8	14.1 14.6 13.8 12.7 14.1	6.4 6.4 7.2	10.2 9.8 9.4 9.9	9.8 8.9 9.0 9.3 8.8		8.3 8.0 8.6 8.1 7.4
21 22 23 24 25	14.4 15.2 14.1 14.3 14.8	8.6 8.5 8.4 8.7	10.8 10.6 10.6 10.7 11.1	11.7 12.7 12.6 12.6 13.0	9.0	10.5 10.4 10.1 9.7 9.8	15.8 14.3 14.2 14.2	6.2	9.9 8.8 9.8 10.0	8.6 9.5 9.6 9.7 9.3	6.3 6.9 6.2 6.4	7.2 7.9 8.2 7.8 7.6
26 27 28 29 30 31	15.1 15.6 15.1 15.5	9.4 8.8 8.7 8.7	11.5 11.5 11.0 11.0	12.6 12.9 12.9 9.8 11.0	7.7 7.3 7.2 7.5 7.5 9.9	9.8 9.7 9.5 8.5 9.6 10.4	13.7 13.9 10.4 10.0 9.2	6.7 6.7 7.5 7.5 7.9	9.6 9.4 8.6 8.5 8.7	9.9 10.3 10.8 10.6 11.0	6.8 6.6 6.6 6.3 6.2 6.4	8.1 8.4 8.4 8.0 8.2 8.7
MONTH	15.6	8.4	11.2	15.7	7.2	10.3	15.8	6.2	9.6	11.7	6.2	8.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBE	
DAY 1 2 3 4 5	MAX 11.9 11.7 11.3 9.9 10.4		8.7 8.5 8.3	9.5 9.6 9.8 10.2 9.9		7.5 7.6 7.7 7.7	MAX 10.6 12.3		MEAN 7.5 7.7	9.2 10.0 10.8 11.8		
1 2 3 4	11.9 11.7 11.3 9.9	JUNE 6.4 6.5 6.1	8.7 8.5 8.3	9.5 9.6 9.8 10.2	JULY 6.1 6.1 6.0 5.9	7.5 7.6 7.7 7.7	 10.6	AUGUST	 7.5	9.2 10.0 10.8 11.8	6.5 6.3 6.3 5.9	7.6 7.7 7.9 8.0
1 2 3 4 5 6 7 8 9	11.9 11.7 11.3 9.9 10.4 10.6 10.1	JUNE 6.4 6.5 6.1	8.7 8.5 8.3 	9.5 9.6 9.8 10.2 9.9 9.9 10.7 10.6	JULY 6.1 6.0 5.9 6.0 5.6 5.6 5.7 5.7	7.5 7.6 7.7 7.7 7.7 7.7 7.5 7.6 7.6	10.6 12.3 12.7 11.8 12.0 12.8	AUGUST 5.5 5.5 5.4 5.2 4.9 4.7 4.4 4.2 4.5	 7.5 7.7 8.1 7.6 7.8 7.9	9.2 10.0 10.8 11.8 12.0 11.9 12.4 11.8 12.9	SEPTEMBE 6.5 6.3 6.3 5.9 5.2 5.0 5.6 5.6 5.8	7.6 7.7 7.9 8.0 7.9 7.5 8.1 7.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14	11.9 11.7 11.3 9.9 10.4 10.6 10.1 9.6 8.7 9.3 9.4 10.1	JUNE 6.4 6.5 6.1 6.3 5.9 5.9	8.7 8.5 8.3 7.4 7.3 7.4 7.7	9.5 9.6 9.8 10.2 9.9 9.9 10.7 10.6 10.1 9.3 9.5 9.3	JULY 6.1 6.0 5.9 6.0 5.6 5.7 5.7 4.5 5.9 5.9 5.6 5.6	7.5 7.6 7.7 7.7 7.7 7.5 7.6 7.6 7.3 7.3 7.0 7.2	10.6 12.3 12.7 11.8 12.0 12.8 12.7 11.9 10.4 10.8 8.6	AUGUST 5.5 5.5 5.4 5.2 4.9 4.7 4.4 4.2 4.5 4.9 4.4	7.5 7.7 8.1 7.6 7.8 7.9 7.6 6.9 6.9 6.2	9.2 10.0 10.8 11.8 12.0 11.9 12.4 11.8 12.9 13.2	6.5 6.3 6.3 5.9 5.2 5.0 5.6 5.8 5.5	7.6 7.7 7.9 8.0 7.9 7.5 8.1 7.8 8.3 8.3 8.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	11.9 11.7 11.3 9.9 10.4 10.6 10.1 9.6 8.7 9.3 9.4 10.1 11.1	JUNE 6.4 6.5 6.1 6.3 5.9 5.9 5.5 5.3 6.1 6.3	8.7 8.5 8.3 7.4 7.3 7.4 7.7 7.6	9.5 9.6 9.8 10.2 9.9 9.9 10.7 10.6 10.6 10.1 9.3 9.5 9.3 8.7	JULY 6.1 6.0 5.9 6.0 5.6 5.7 4.5 5.9 5.6 5.7 5.6 5.7	7.5 7.6 7.7 7.7 7.7 7.5 7.6 7.6 7.3 7.3 7.3 7.1	10.6 12.3 12.7 11.8 12.0 12.8 12.7 11.9 10.4 10.8 8.6 9.7 8.9 10.0 7.9	AUGUST 5.5 5.5 5.4 5.2 4.9 4.7 4.4 4.2 4.5 4.9 4.7 5.0 5.4 7.2 6.4	7.5 7.7 7.6 7.8 7.9 6.9 6.9 6.6 6.5 7.4 7.5	9.2 10.0 10.8 11.8 12.0 11.9 12.4 11.8 12.9 13.2 13.3 13.7 15.3 15.0 14.8 15.9 15.1	SEPTEMBE 6.5 6.3 6.3 5.9 5.2 5.6 5.6 5.8 5.5 5.5 7.6 7.1 6.9 7.6 8.1	7.6 7.7 7.9 8.0 7.9 7.5 8.1 7.8 8.3 8.3 8.5 10.7 10.4 9.9 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 30	11.9 11.7 11.3 9.9 10.4 10.6 10.1 9.6 8.7 9.3 9.4 10.1 11.1 8.9 9.8 11.0	JUNE 6.4 6.5 6.1 6.3 5.9 5.9 5.5 5.3 6.1 6.3 6.1 6.1	8.7 8.5 8.3 7.4 7.3 7.4 7.7 7.6 7.5 7.9 7.5 7.7	9.5 9.6 9.8 10.2 9.9 9.9 10.7 10.6 10.6 10.1 9.3 9.3 9.3 8.7 9.7 7.8 	JULY 6.1 6.0 5.9 6.0 5.6 5.7 5.7 4.5 5.9 5.6 5.6 5.7 6.6 6.5	7.5 7.6 7.7 7.7 7.7 7.5 7.6 7.6 7.3 7.3 7.3 7.1 7.3 	10.6 12.3 12.7 11.8 12.0 12.8 12.7 11.9 10.4 10.8 8.6 9.7 7.9 7.7 9.3 9.8 10.6 8.1 9.3 9.3 9.3 9.8 10.6	AUGUST 5.5 5.5 5.4 5.2 4.9 4.7 4.4 4.2 4.5 4.9 4.4 7.2 6.4 6.3 6.4 6.1 5.9 6.1 6.3 6.2 6.3 6.2 6.3 6.2 6.3	7.5 7.7 8.1 7.6 7.8 7.9 7.6 6.9 7.2 6.0 6.6 7.1 7.1 7.1 7.1 7.3 7.2 7.5 7.7	9.2 10.0 10.8 11.8 12.0 11.9 12.4 11.8 12.9 13.2 13.3 15.7 15.3 15.0 14.8 15.9 15.1 15.2 10.4	SEPTEMBE 6.5 6.3 6.3 5.9 5.0 5.6 5.8 5.5 5.5 7.6 7.1 6.9 7.6 8.1 8.3 8.4 9.7 10.2	7.6 7.7 7.9 8.0 7.9 7.5 8.1 7.8 8.3 8.3 8.5 9.2 10.7 10.4 9.9 10.5 10.7 9.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	11.9 11.7 11.3 9.9 10.4 10.6 10.1 9.6 8.7 9.3 9.4 10.1 11.1 11.1 8.9 9.8 11.0 9.4 10.2 9.6 7.9 9.6	JUNE 6.4 6.5 6.1 6.3 5.9 5.9 5.5 5.3 6.1 6.3 6.1 6.1 6.1 6.3 6.7 6.4 5.9 5.9	8.7 8.5 8.3 7.4 7.3 7.4 7.7 7.6 7.5 7.9 7.5 7.7 7.4	9.5 9.8 10.2 9.9 9.9 10.7 10.6 10.6 10.1 9.3 9.3 8.7 7.8 8.6 8.9 	JULY 6.1 6.0 5.9 6.0 5.6 5.7 5.7 4.5 5.9 5.6 5.6 5.7 6.6 6.5	7.5 7.6 7.7 7.7 7.7 7.7 7.7 7.6 7.6 7.3 7.3 7.1 7.3 7.5 7.6	10.6 12.3 12.7 11.8 12.0 12.8 12.7 11.9 10.4 10.8 8.6 9.7 8.9 10.0 7.9 7.7 7.7 9.3 9.8 10.6	AUGUST 5.5 5.5 5.4 5.2 4.9 4.7 4.4 4.2 4.5 4.9 4.7 5.0 5.4 7.2 6.4 6.3 6.4 6.1 5.9 6.1 6.3 6.2 6.2 6.3 6.2	7.5 7.7 8.1 7.6 7.8 7.9 7.6 6.8 7.2 6.0 6.5 7.4 7.5 7.1 7.1 7.3 7.2 7.5 7.7	9.2 10.0 10.8 11.8 12.0 11.9 12.4 11.8 12.9 13.2 13.3 15.0 14.8 15.9 15.1 15.2 10.4 12.6 11.1 11.9 12.4 12.8	SEPTEMBE 6.5 6.3 6.3 5.9 5.2 5.0 5.6 5.8 5.5 7.9 7.6 7.1 6.9 7.6 8.1 8.3 8.4 9.7 10.2 8.1 8.0 7.5 6.9 6.8	7.66 7.79 8.00 7.9 7.5 8.1 7.8 8.3 8.3 8.5 9.2 10.7 10.4 9.9 10.5 10.5 10.5 10.7 9.4 9.7 10.6 11.3 10.9

PLATTE RIVER BASIN 63

06711565 SOUTH PLATTE RIVER AT ENGLEWOOD, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DE	ECEMBER			JANUARY	
1 2 3 4 5	8.6 8.5 8.7 8.6 8.7	7.7 7.7 7.7 7.7 7.7	8.1 8.1 8.2 8.2 8.2	8.6 8.6 8.9 8.9	8.0 7.9 8.0 8.0 7.9	8.3 8.3 8.4 8.4	8.5 8.6 8.2 8.5 8.3	7.8 7.7 7.7 7.7 7.7	8.1 8.1 7.9 8.0 8.0	8.7 8.7 8.6 8.5 8.5	7.7 7.7 7.7 7.7 7.7	8.1 8.2 8.1 8.0 8.1
6 7 8 9 10	8.6 8.4 8.4 8.4	7.7 7.7 7.7 7.7 7.7	8.2 8.0 8.0 8.1 8.1	9.0 9.0 9.0 8.9	8.0 8.0 7.9 7.9	8.6 8.5 8.4 8.4	8.7 8.4 8.2 8.3 8.3	7.7 7.7 7.7 7.6 7.6	8.1 8.0 7.9 7.9	8.4 8.7 8.2 8.2 8.6	7.7 7.7 7.7 7.7 7.7	8.0 8.0 8.0 8.0
11 12 13 14 15	8.5 8.6 8.6 8.4 8.2	7.7 7.7 7.7 7.7 7.7	8.2 8.2 8.2 8.1 8.0	8.6 8.8 8.5 8.4 8.3	7.9 7.7 7.7 7.8 7.8	8.2 8.2 8.1 8.1	8.4 8.4 8.3 8.4 8.3	7.6 7.6 7.6 7.7 7.6	8.0 8.0 7.9 8.0 7.9	8.4 8.5 8.6 8.6 8.7	7.7 7.7 7.7 7.7 7.8	8.1 8.1 8.1 8.1 8.2
16 17 18 19 20	8.2 8.3 8.1 8.6 8.7	7.9 7.8 7.8 7.9 7.8	8.0 8.0 7.9 8.2 8.2	8.6 8.5 8.7 8.6 8.6	7.8 7.6 7.6 7.7 7.7	8.2 8.1 8.1 8.1 8.1	8.3 8.4 8.3 8.2	7.6 7.7 7.7 7.7 7.7	8.0 8.0 8.0 8.0	8.8 8.8 8.9 8.9	7.8 7.8 7.8 7.8 7.8	8.2 8.3 8.3 8.4 8.3
21 22 23 24 25	8.7 8.7 8.8 8.7	7.8 7.7 7.8 7.8 7.8	8.2 8.2 8.3 8.3	8.5 8.1 8.8 8.6 8.5	7.6 7.7 7.8 7.8 7.9	8.0 7.9 8.2 8.2 8.2	8.1 8.2 8.3 8.3	7.7 7.7 7.7 7.7 7.7	7.9 8.0 8.0 8.0	8.9 8.9 8.9 9.0 8.9	7.8 7.8 7.8 7.7 7.7	8.3 8.3 8.3 8.3
26 27 28 29 30 31	8.6 8.6 8.5 8.6 8.6	7.8 7.8 7.9 7.9 7.9	8.2 8.3 8.2 8.3 8.3	8.7 8.6 8.6 8.6 8.6	7.9 7.8 7.7 7.7 7.7	8.2 8.1 8.1 8.1 8.1	8.3 8.4 8.6 8.6 8.6	7.7 7.7 7.7 7.7 7.7 7.7	8.0 8.0 8.1 8.1 8.1	8.6 8.6 8.7 8.5 8.5	7.8 7.8 7.8 7.6 7.5	8.2 8.1 8.2 8.0 8.0 7.9
MONTH	8.8	7.7	8.2	9.0	7.6	8.2	8.7	7.6	8.0	9.0	7.5	8.1
DAY	MAX	MTN	MEAN	MAX	MTN	MEAN	MAX	MTN	MEAN	MAX	MTN	MEAN
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN APRIL	MEAN	MAX	MIN	MEAN
	1	FEBRUARY			MARCH			APRIL			MAY	
DAY 1 2 3 4 5		FEBRUARY	7.8 7.9 7.9 7.9 7.9	8.7 8.4 8.6 8.6 8.5	MARCH	8.3 8.1 8.2 8.2	8.8 8.3 8.6 8.8 8.8	7.6 7.6 7.6 7.6 7.7	8.1 7.9 8.0 8.2 8.2	8.5 8.6 8.7 8.7	MAY 7.7 7.8 7.6 7.6 7.6	
1 2 3 4 5	8.2 8.1 8.2 8.2	7.4 7.5 7.6 7.6 7.6 7.6 7.5 7.5 7.5	7.8 7.9 7.9 7.9 7.9 8.0 8.0 8.1 8.0	8.7 8.4 8.6 8.6 8.5 8.3 8.6 8.2	7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.8 7.5 7.5	8.3 8.1 8.2 8.2 8.2 8.1 8.1 8.2 7.9 8.0	8.8 8.3 8.6 8.8 8.8 8.7 8.7	7.6 7.6 7.6 7.7 7.7 7.7 7.6 7.5 7.5 7.4 7.4	8.1 7.9 8.0 8.2 8.2 8.1 8.1 8.1 8.1	8.5 8.6 8.7 8.7 8.7 8.6 8.7 7.9 8.4 8.5	MAY 7.7 7.8 7.6 7.6 7.6 7.7 7.6 7.6 7.6 7.6 7.6	8.2 8.2 8.1 8.1 8.1 8.0 7.7 8.0 7.9
1 2 3 4 5 6 7 8 9	8.2 8.1 8.2 8.2 8.2 8.3 8.4 8.7	7.4 7.5 7.6 7.6 7.6 7.6 7.5 7.5 7.5	7.8 7.9 7.9 7.9 7.9 8.0 8.1 8.0 8.1	8.7 8.4 8.6 8.6 8.5 8.3 8.6 8.2	7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.8 7.5 7.5	8.3 8.1 8.2 8.2 8.2 8.1 8.1 8.2 7.9 8.0	8.8 8.3 8.6 8.8 8.8	7.6 7.6 7.6 7.7 7.7 7.7 7.6 7.5 7.5 7.4 7.4	8.1 7.9 8.0 8.2 8.2 8.1 8.1 8.1 8.1	8.5 8.6 8.7 8.7	MAY 7.7 7.8 7.6 7.6 7.6 7.7 7.6 7.6 7.6 7.6 7.6	8.2 8.2 8.1 8.1 8.1 8.0 7.7 8.0 7.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.2 8.1 8.2 8.2 8.2 8.3 8.4 8.7 8.5 8.7	7.4 7.5 7.6 7.6 7.6 7.6 7.5 7.5 7.5	7.8 7.9 7.9 7.9 7.9 8.0 8.0 8.1 8.0	8.7 8.4 8.6 8.6 8.5 8.3 8.6 8.2	7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.8 7.5 7.5	8.3 8.1 8.2 8.2 8.2 8.1 8.1 8.2 7.9 8.0	8.8 8.3 8.6 8.8 8.8 8.7 8.7	7.6 7.6 7.6 7.7 7.7 7.7 7.6 7.5 7.5 7.4 7.4	8.1 7.9 8.0 8.2 8.2 8.1 8.1 8.1 8.1	8.5 8.6 8.7 8.7 8.7 8.6 8.7 7.9 8.4 8.5	MAY 7.7 7.8 7.6 7.6 7.6 7.7 7.6 7.6 7.6 7.6 7.6	8.2 8.2 8.1 8.1 8.1 8.0 7.7 8.0 7.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	8.2 8.2 8.2 8.2 8.3 8.4 8.7 8.5 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7	7.4 7.5 7.6 7.6 7.6 7.6 7.5 7.5 7.5 7.5 7.7 7.7 7.7 7.6 7.6 7.6 7.6	7.8 7.9 7.9 7.9 7.9 8.0 8.1 8.0 8.1 8.1 8.2 8.2 8.2 8.2 8.2	8.7 8.4 8.6 8.5 8.5 8.3 8.6 8.2 8.5 8.6 8.2 8.5 8.6 8.5	MARCH 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.8 7.5 7.5 7.6 7.5 7.5 7.5 7.5 7.7 7.7 7.7	8.3 8.1 8.2 8.2 8.2 8.1 8.1 8.2 7.9 8.0 8.0 8.1 7.8 7.8 8.1 8.1	8.8 8.3 8.6 8.8 8.7 8.7 8.7 8.9 8.9 8.9 8.8	APRIL 7.6 7.6 7.7 7.7 7.6 7.5 7.5 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	8.1 7.9 8.0 8.2 8.2 8.1 8.1 8.1 8.2 8.2 8.2 8.1 7.9	8.5 8.6 8.7 8.7 8.7 7.9 8.4 8.5 8.6 8.6 8.6 8.5 8.6	MAY 7.7 7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	8.2 8.2 8.1 8.1 8.1 8.0 7.7 8.0 7.9 7.9 8.1 8.1 8.0 8.0 8.0 7.7,9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	8.2 8.2 8.2 8.2 8.3 8.4 8.7 8.5 8.7 8.7 8.7 8.7 8.7 8.8 8.7 8.8 8.6 8.6 8.6 8.8	7.4 7.5 7.6 7.6 7.6 7.6 7.5 7.5 7.5 7.7 7.7 7.7 7.6 7.6 7.6 7.6 7.6 7.6 7.6	7.8 7.9 7.9 7.9 7.9 7.9 8.0 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.3	8.7 8.4 8.6 8.5 8.5 8.3 8.6 8.2 8.4 8.5 8.6 8.2 8.7 8.5 8.7	7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.8 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	8.3 8.1 8.2 8.2 8.2 8.1 8.1 8.2 7.9 8.0 8.1 7.8 7.8 7.8 7.8	8.8 8.6 8.8 8.6 8.7 8.7 8.7 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9	7.6 7.6 7.7 7.7 7.6 7.5 7.5 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	8.1 7.9 8.0 8.2 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.3 7.9 8.2 8.2 8.2	8.5 8.6 8.7 8.7 8.7 8.6 8.7 7.9 8.4 8.5 8.6 8.6 8.5 8.6 8.8 7.9 9.8 8.4 8.5 8.6	7.7 7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.7 7.6 7.6	8.2 8.2 8.1 8.1 8.1 8.0 7.7 8.0 7.9 7.9 7.9 8.1 8.0 8.0 7.7 9.9 8.1 8.1 8.1
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	8.2 8.1 8.2 8.2 8.2 8.3 8.7 8.5 8.7 8.7 8.7 8.7 8.7 8.8 8.7 8.6 8.6 8.6 8.8 8.8 8.8 8.8	7.4 7.5 7.6 7.6 7.6 7.5 7.5 7.5 7.7 7.7 7.6 7.6 7.6 7.6 7.6 7.7 7.7 7.7	7.8 7.9 7.9 7.9 7.9 7.9 8.0 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3	8.7 8.6 8.6 8.5 8.5 8.6 8.2 8.4 8.5 8.6 8.2 8.3 8.5 8.5 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7	MARCH 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.5 7.5	8.3 8.1 8.2 8.2 8.2 8.1 8.1 8.0 8.0 8.0 8.1 7.8 8.1 8.1 8.2 7.9 8.0 8.1 7.8	8.8 8.3 8.6 8.8 8.6 8.7 8.7 8.7 8.7 8.9 8.9 8.9 8.9 8.7 9.0 8.5 8.7 9.0 8.5 8.7 9.0 8.7 9.0 8.7	7.6 7.6 7.7 7.7 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	8.1 7.9 8.0 8.2 8.2 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.5 8.6 8.7 8.7 8.6 8.7 7.9 8.4 8.6 8.6 8.5 8.6 8.9 7.9 8.3 8.4 8.6 8.9 7.9 8.3 8.7	MAY 7.7 7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.6 7.6	8.2 8.2 8.1 8.1 8.1 8.0 7.7 8.0 7.9 7.9 8.1 8.1 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 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1

06711565 SOUTH PLATTE RIVER AT ENGLEWOOD, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	9.1 8.9 9.1 8.8 9.1	7.6 7.6 7.6 7.6 7.6	8.4 8.2 8.3 8.1 8.2	8.7 8.7 8.7 8.9 8.8	7.7 7.7 7.7 7.6 7.7	8.2 8.2 8.1 8.2 8.2	 8.6 8.8	 7.5 7.5	 8.0 8.1	8.4 8.4 8.2 8.2 8.2	7.7 7.7 7.7 7.6 7.7	8.0 8.0 8.0 8.0
6 7 8 9 10	8.9 9.1 9.0 8.8 8.9	7.5 7.5 7.5 7.5 7.6	8.2 8.2 8.1 8.0 8.1	8.9 8.8 8.8 8.9 8.8	7.7 7.6 7.7 7.6 7.7	8.3 8.2 8.2 8.2 8.2	8.9 8.8 8.9 8.3 8.2	7.5 7.5 7.4 7.4 7.5	8.2 8.1 8.1 7.9 7.9	8.1 8.2 8.2 8.2 8.2	7.6 7.6 7.6 7.7 7.6	7.9 7.9 7.9 7.9 7.9
11 12 13 14 15	8.7 8.9 8.9 9.0 9.0	7.6 7.6 7.6 7.5 7.5	8.0 8.1 8.2 8.3 8.2	8.9 8.5 8.9 8.9	7.7 7.7 7.7 7.7 7.8	8.2 8.0 8.2 8.2 8.2	8.2 8.3 8.6 8.2 8.1	7.6 7.7 7.6 7.4 7.6	7.8 8.0 8.0 7.8 7.8	8.3 8.3 8.5 8.4	7.6 7.6 7.6 7.6 7.6	7.9 7.9 7.9 7.9 7.9
16 17 18 19 20	8.2 8.5 8.7 8.9 9.0	7.5 7.3 7.5 7.6 7.7	7.8 7.8 8.0 7.9 8.3	8.8 8.0 8.4 8.4	7.7 7.6 7.9 7.6	8.1 7.9 8.1 7.9	7.9 8.1 8.0 8.3 8.2	7.6 7.6 7.6 7.8 7.8	7.8 7.8 7.8 8.0 7.9	8.4 8.3 8.3 8.4 8.0	7.6 7.6 7.6 7.7 7.8	7.9 7.9 7.9 8.0 7.9
21 22 23 24 25	9.0 8.9 9.0 9.0 8.8	7.7 7.6 7.9 7.8 7.8	8.3 8.1 8.4 8.3 8.2	8.8 8.2 8.3 8.3	7.6 7.4 7.4 7.4	8.0 7.8 7.8 7.8	8.0 8.0 7.9 8.2 8.6	7.7 7.7 7.6 7.7 7.7	7.8 7.8 7.8 7.9 8.0	8.1 7.9 8.1 8.0 8.1	7.7 7.7 7.7 7.7 7.7	7.9 7.8 7.9 7.8 7.9
26 27 28 29 30 31	8.1 8.8 8.4 8.8 8.7	7.8 7.8 7.8 7.7 7.6	7.9 8.1 8.1 8.2 8.1	 	 	 	8.6 8.7 8.5 8.3	7.8 7.7 7.8 7.8 7.7	8.1 7.9 8.1 8.1 8.0 8.1	8.3 8.2 8.3 8.7 8.7	7.8 7.7 7.7 7.7 7.8	8.0 8.0 8.0 8.0
MONTH YEAR	9.1 9.2	7.3 7.3	8.1	8.9	7.4	8.1	8.9	7.4	8.0	8.7	7.6	7.9

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DI	ECEMBER			JANUARY	
1	616	525	562	919	835	879	692	541	604	605	525	573
2	601	512	556	860	644	772	762	657	730	638	545	596
3	666	513	564	709	585	643	858	724	797	878	577	695
4	633	403	536	694	584	633	1110	825	960	787	602	695
5	684	412	512	654	604	641	1090	743	852	722	607	672
6	771	582	678	686	610	651	909	668	786	689	604	648
7	722	655	693	702	610	665	859	700	774	727	619	678
8	741	601	675	739	580	642	927	733	828	721	652	692
9	686	598	635	659	535	591	815	673	743	725	659	694
10	659	593	630	611	522	570	744	613	677	739	649	696
11	647	575	619	609	521	567	674	570	634	705	638	675
12	674	551	626	616	528	564	662	574	625	679	597	645
13	675	487	603	704	596	670	661	575	623	674	602	638
14	537	370	452	725	660	696	647	588	621	1220	564	636
15	481	367	427	715	652	690	683	584	632	657	572	626
16	641	433	502	673	539	603	676	607	650	667	584	629
17	567	457	479	593	535	571	680	607	653	694	580	625
18	765	479	596	619	535	574	677	607	651	648	561	613
19	785	592	666	583	528	561	695	612	662	629	536	594
20	654	599	635	596	530	569	699	621	667	608	528	572
21	668	600	633	593	514	561	705	631	674	599	533	566
22	728	629	692	747	509	632	1220	620	847	605	531	569
23	756	654	716	582	480	518	1070	752	834	639	521	575
24	756	668	719	666	555	611	849	666	773	610	513	571
25	772	668	728	664	581	633	756	640	707	601	505	562
26 27 28 29 30 31	844 912 918 921 930 932	704 806 832 835 859 836	773 861 878 888 901 891	655 665 623 640 649	576 559 561 572 504	620 615 602 615 581	718 714 681 601 581 594	636 627 538 510 508 522	681 678 630 567 552 568	642 858 845 650 652 692	537 639 559 563 567 570	583 783 649 604 607 625
MONTH	932	367	656	919	480	625	1220	508	699	1220	505	632

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06711565 SOUTH PLATTE RIVER AT ENGLEWOOD, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

۵.	PECIFIC	CONDUCTA	INCE (MIC.	KOSTEMENS/	CM AI Z	DEG. C)	, WAIER IEF	AR OCTOR	EK 1999	IO SEPIEME	DER ZUUU	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY	-		MARCH			APRIL			MAY	
1	750	623	689	687	620	660	700	541	593			
2	717	635	690	688	614	658	697	472	586	514	428	459
3	708	623	675	712	620	669	589	524	558	548	455	496
4 5	706 700	622 624	676 666	667 665	593 584	637 631	596 645	510 479	560 545	499 474	432 415	476 444
6 7	707 756	625 604	674 675	671 780	584 598	637 642	656 572	489 481	519 526	479 480	412 422	448 453
8	651	548	592	795			646	494	539	559	346	436
9	631	526	597	635			572	499	546	542	359	472
10	620	536	578	695	602	653	575	500	548	571	438	510
11	610	539	588	648	568	618	559	483	533		432	
12 13	621 633	540 541	593 594	670 670	569 579	626 634	555 559	487 483	531 532		541 462	
14	633	543	596	663	573	626	595	529	555		448	
15	622	564	598	717	534	629	608	508	551		469	
16	615	537	585	962	680	804	615	499	556	510	452	479
17	632	556	594	688	502	585	567	498	543	585	339	471
18 19	1410 1290	583 660	955 889	705 669	587 591	650 636	545 569	478 483	520 524	545 711	360 528	437 598
20	754	602	687	713	580	639	623	487	532	775	461	615
21	714	581	659	1240	693	935				614	513	537
22	713	581	642	951	615	744				571	497	527
23	870	575	685	700	575	644				530	475	505
24 25	644 646	571 569	611 619	649 641	559 533	616 604	622	518	 568	535 683	440 440	492 495
26 27	667 684	584 582	635 637	636 651	560 568	604 620	574 555	516 450	547 526	516 530	451 452	473 483
28	665	571	623	656	551	614	455	427	439	511	443	482
29 30	666	583	631	715 639	491	584 573	476	407 353	435	519 504	445 448	482 483
31				769	524 544	639				503	439	479
150177777	1410	F06	652	1040	401	640	E00	252	F26	885	220	400
MONTH	1410	526	653	1240	491	649	700	353	536	775	339	489
DAV	MAY	MIN	MEAN	MAV	MIN	MEAN	MAV	MIN	MEAN	MAV	MIN	MEAN
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN		MIN AUGUST	MEAN		MIN SEPTEMBE	
		JUNE			JULY				MEAN		SEPTEMBE	IR.
1 2	505 547	JUNE 441 433	477 473	503 481	JULY 422 412	448 439	 	AUGUST		743 776	SEPTEMBE 607 643	ER 655 695
1 2 3	505 547 514	JUNE 441 433 440	477 473 466	503 481 477	JULY 422 412 434	448 439 457	 	AUGUST	 	743 776 770	SEPTEMBE 607 643 643	655 695 710
1 2	505 547	JUNE 441 433	477 473	503 481	JULY 422 412	448 439	 	AUGUST		743 776	SEPTEMBE 607 643	ER 655 695
1 2 3 4 5	505 547 514 558 533	JUNE 441 433 440 434 414	477 473 466 471 460	503 481 477 471 448	JULY 422 412 434 421 400	448 439 457 451 429	 976 600	AUGUST 556 518	 628 562	743 776 770 834 866	607 643 643 695 695	655 695 710 763 761
1 2 3 4	505 547 514 558	JUNE 441 433 440 434	477 473 466 471	503 481 477 471	JULY 422 412 434 421	448 439 457 451	 976	AUGUST 556	 628	743 776 770 834	SEPTEMBE 607 643 643 695	655 695 710 763
1 2 3 4 5 6 7 8	505 547 514 558 533 486 506 485	JUNE 441 433 440 434 414 430 426 417	477 473 466 471 460 460 456 445	503 481 477 471 448 472 493 498	JULY 422 412 434 421 400 396 438 444	448 439 457 451 429 428 470 473	976 600 610 563 596	AUGUST 556 518 494 473 470	 628 562 568 528 530	743 776 770 834 866 1100 879 889	SEPTEMBE 607 643 643 695 695 703 758 783	655 695 710 763 761 750 810 833
1 2 3 4 5 6 7 8 9	505 547 514 558 533 486 506 485 480	JUNE 441 433 440 434 414 430 426 417 407	477 473 466 471 460 460 456 445 442	503 481 477 471 448 472 493 498 504	JULY 422 412 434 421 400 396 438 444 448	448 439 457 451 429 428 470 473 478	976 600 610 563 596 713	AUGUST 556 518 494 473 470 579	 628 562 568 528 530 659	743 776 770 834 866 1100 879 889 991	SEPTEMBE 607 643 643 695 695 703 758 783 809	655 695 710 763 761 750 810 833 869
1 2 3 4 5 6 7 8 9	505 547 514 558 533 486 506 485 480 590	JUNE 441 433 440 434 414 430 426 417 407 398	477 473 466 471 460 460 456 445 442 431	503 481 477 471 448 472 493 498 504 594	JULY 422 412 434 421 400 396 438 444 448 447	448 439 457 451 429 428 470 473 478 505	976 600 610 563 596 713 809	AUGUST 556 518 494 473 470 579 658	 628 562 568 528 530 659 741	743 776 770 834 866 1100 879 889 991 936	607 643 643 695 695 703 758 783 809 835	655 695 710 763 761 750 810 833 869 880
1 2 3 4 5 6 7 8 9 10	505 547 514 558 533 486 506 485 480 590	JUNE 441 433 440 434 414 430 426 417 407 398 383	477 473 466 471 460 460 456 445 442 431	503 481 477 471 448 472 493 504 594	JULY 422 412 434 421 400 396 438 444 448 447 407	448 439 457 451 429 428 470 473 478 505	976 600 610 563 596 713 809	AUGUST 556 518 494 473 470 579 658	 628 562 568 528 530 659 741	743 776 770 834 866 1100 879 889 991 936	607 643 643 643 695 695 703 758 783 809 835	655 695 710 763 761 750 810 833 869 880
1 2 3 4 5 6 7 8 9	505 547 514 558 533 486 506 485 480 590	JUNE 441 433 440 434 414 430 426 417 407 398	477 473 466 471 460 460 456 445 442 431 429 419 474	503 481 477 471 448 472 493 498 504 594	JULY 422 412 434 421 400 396 438 444 448 447	448 439 457 451 429 428 470 473 478 505 442 464 479	976 600 610 563 596 713 809	AUGUST 556 518 494 473 470 579 658	 628 562 568 528 530 659 741	743 776 770 834 866 1100 879 889 991 936	SEPTEMBE 607 643 643 695 695 703 758 783 809 835	655 695 710 763 761 750 810 833 869 880
1 2 3 4 5 6 7 8 9 10 11 12 13 14	505 547 514 558 533 486 506 485 480 590 719 463 527 485	JUNE 441 433 440 434 414 430 426 417 407 398 383 389 413 406	477 473 466 471 460 460 456 445 442 431 429 419 474 440	503 481 477 471 448 472 493 498 504 594 494 624 530 552	JULY 422 414 421 400 396 438 444 448 447 407 421 444 432	448 439 457 451 429 428 470 473 478 505 442 464 479 449	976 600 610 563 596 713 809 833 764 667 728	AUGUST 556 518 494 473 470 579 658 737 568 343 343	 628 562 568 528 530 659 741 795 665 578	743 776 770 834 866 1100 879 889 991 936 913 924 900 910	SEPTEMBE 607 643 643 645 695 695 703 758 783 809 835 809 820 798 793	655 695 710 763 761 750 810 833 869 880 872 879 853 855
1 2 3 4 5 6 7 8 9 10 11 12 13	505 547 514 558 533 486 506 485 480 590 719 463 527	JUNE 441 433 440 434 414 430 426 417 407 398 383 389 413	477 473 466 471 460 460 456 445 442 431 429 419 474	503 481 477 471 448 472 493 498 504 594	JULY 422 412 434 421 400 396 438 444 448 447 407 421 444	448 439 457 451 429 428 470 473 478 505 442 464 479	976 600 610 563 596 713 809 833 764 667	AUGUST 556 518 494 473 470 579 658 737 568 343	 628 562 568 528 530 659 741 795 665 578	743 776 770 834 866 1100 879 889 991 936 913 924	SEPTEMBE 607 643 643 695 695 703 758 783 809 835	655 695 710 763 761 750 810 833 869 880 872 879 853
1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15	505 547 514 558 533 486 506 485 480 590 719 463 527 485 495	JUNE 441 433 440 434 414 430 426 417 407 398 383 389 413 406 421 426	477 473 466 471 460 456 445 442 431 429 419 474 440 457	503 481 477 471 448 472 493 498 504 594 494 624 530 552 568	JULY 422 414 400 396 438 444 448 447 407 421 444 432 399 200	448 439 457 451 429 428 470 473 478 505 442 464 479 449 445	976 600 610 563 596 713 809 833 764 667 728 706	AUGUST 556 518 494 473 470 579 658 737 568 343 343 644	 628 562 568 528 530 659 741 795 665 578 629 680	743 776 770 834 866 1100 879 991 936 913 924 900 910 858	SEPTEMBE 607 643 643 645 695 695 703 758 783 809 835 809 820 798 793 753	655 695 710 763 761 750 810 833 869 880 872 879 853 855 810
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	505 547 514 558 533 486 506 485 480 590 719 463 527 485 495	JUNE 441 433 440 434 414 430 426 417 407 398 383 389 413 406 421 426 408	477 473 466 471 460 456 445 442 431 429 474 440 457	503 481 477 471 448 472 493 498 504 594 494 624 530 552 568	JULY 422 412 434 421 400 396 438 444 448 447 407 421 444 432 399 200 226	448 439 457 451 429 428 470 473 478 505 442 464 479 449 445	976 600 610 563 596 713 809 833 764 667 728 706	AUGUST 556 518 494 473 470 579 658 343 343 3443 602 139	 628 562 568 528 530 659 741 795 665 578 629 680	743 776 770 834 866 1100 879 889 991 936 913 924 900 910 858	SEPTEMBE 607 643 643 695 695 703 758 783 809 835 809 820 798 793 753 752 762	655 695 710 763 761 750 810 833 869 880 872 879 853 855 810
1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15	505 547 514 558 533 486 506 485 480 590 719 463 527 485 495	JUNE 441 433 440 434 414 430 426 417 407 398 383 389 413 406 421 426	477 473 466 471 460 456 445 442 431 429 419 474 440 457	503 481 477 471 448 472 493 498 504 594 494 624 530 552 568	JULY 422 414 400 396 438 444 448 447 407 421 444 432 399 200	448 439 457 451 429 428 470 473 478 505 442 464 479 449 445	976 600 610 563 596 713 809 833 764 667 728 706	AUGUST 556 518 494 473 470 579 658 737 568 343 343 644	 628 562 568 528 530 659 741 795 665 578 629 680	743 776 770 834 866 1100 879 991 936 913 924 900 910 858	SEPTEMBE 607 643 643 645 695 695 703 758 783 809 835 809 820 798 793 753	655 695 710 763 761 750 810 833 869 880 872 879 853 855 810
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	505 547 514 558 533 486 506 485 480 590 719 463 527 485 495	JUNE 441 433 440 434 414 430 426 408 421	477 473 466 471 460 456 445 442 431 429 419 474 440 457	503 481 477 471 448 472 493 498 504 594 494 624 530 552 568 506	JULY 422 412 434 421 400 396 438 444 448 447 407 421 444 432 399 200 226	448 439 457 451 429 428 470 473 478 505 442 464 479 449 445	976 600 610 563 596 713 809 833 764 667 728 706	AUGUST 556 518 494 470 579 658 737 568 343 343 644 602 139 230	 628 562 568 528 530 659 741 795 665 578 629 680	743 776 770 834 866 1100 879 889 991 936 913 924 900 910 858 842 878 888	SEPTEMBE 607 643 643 695 695 703 758 809 835 809 825 798 793 753 752 762 784	655 695 710 763 761 750 810 833 869 880 872 872 875 810
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	505 547 514 558 533 486 506 485 480 590 719 463 527 485 495 488 511 690	JUNE 441 433 440 434 414 430 426 417 407 398 383 389 413 406 421 426 408 501 400	477 473 466 471 460 460 456 445 442 431 429 419 474 440 457	503 481 477 471 448 472 493 498 504 594 494 624 530 552 568	JULY 422 412 434 421 400 396 438 444 448 447 407 421 444 432 399 200 226	448 439 457 451 429 428 470 473 505 442 464 479 449 445	976 600 610 563 596 713 809 833 764 667 728 706	AUGUST 556 518 494 473 470 579 658 343 343 3443 644 602 139 230 418	 628 562 568 530 659 741 795 665 578 629 680	743 776 770 834 866 1100 879 889 991 936 913 924 900 910 858 842 878 882 882 888	SEPTEMBE 607 643 643 695 695 703 758 783 809 835 809 820 798 793 753 752 762 762 764 633	655 695 710 763 761 750 810 833 869 880 872 879 853 855 810
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	505 547 514 558 533 486 506 485 480 590 719 463 527 485 495 488 511 690 699 480	JUNE 441 433 440 434 414 430 426 417 407 398 383 406 421 426 408 501 400 374 404 386	477 473 466 471 460 456 445 442 431 429 474 440 457 462 458 554 587 406 515 399	503 481 477 471 448 472 493 498 504 594 494 624 530 552 568 506 388 616	JULY 422 412 434 421 400 396 438 444 448 447 407 421 444 432 399 200 226	448 439 457 451 429 428 470 473 478 505 442 464 479 449 445 475 307 	976 600 610 563 596 713 809 833 764 667 728 706 897 658 479 535 593	AUGUST 556 518 494 473 470 579 658 343 343 3443 644 602 139 230 418 475	 628 562 568 528 530 659 741 795 665 578 629 680 677 492 378 495 515	743 776 770 834 866 1100 879 889 991 936 913 924 900 910 858 842 878 882 886 717	SEPTEMBE 607 643 643 695 695 703 758 783 809 835 809 820 798 793 753 752 762 784 633 441 655 724	655 695 710 763 761 750 810 833 869 880 872 879 853 855 810 807 819 834 838 570 741 765
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	505 547 514 558 533 486 506 485 480 590 719 463 527 485 495 488 511 690 699 480	JUNE 441 433 440 434 414 430 426 417 407 398 383 389 413 406 421 426 408 501 400 374 404 386 386	477 473 466 471 460 456 445 442 431 429 419 474 440 457 468 554 587 406 515 399 419	503 481 477 471 448 472 493 498 504 594 494 624 530 552 568 506 388 616	JULY 422 412 434 421 400 396 438 444 444 447 407 421 444 432 399 200 226	448 439 457 451 429 470 473 478 505 442 464 479 445 475 307 	976 600 610 563 596 713 809 833 764 667 728 706 897 658 479 535 593	AUGUST 556 518 494 473 579 658 737 568 343 343 644 602 139 230 418 475 593 651 736	 628 562 568 528 528 530 659 741 795 665 578 629 680 677 492 378 495 515	743 776 770 834 866 1100 879 889 991 936 913 924 900 910 858 842 878 882 886 717 797 826 793	SEPTEMBE 607 643 643 695 695 703 7583 809 835 809 825 798 793 753 752 762 784 633 441 655 724 531	655 695 710 763 761 750 810 833 869 880 872 872 875 810 807 817 819 834 838 570 741 765 703
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	505 547 514 558 533 486 506 485 480 590 719 463 527 485 495 488 511 690 699 480	JUNE 441 433 440 434 414 430 426 417 407 398 383 406 421 426 408 501 400 374 404 386	477 473 466 471 460 456 445 442 431 429 474 440 457 462 458 554 587 406 515 399	503 481 477 471 448 472 493 498 504 594 494 624 530 552 568 506 388 	JULY 422 412 434 421 400 396 438 444 448 447 407 421 444 432 399 200 226	448 439 457 451 429 428 470 473 478 505 442 464 479 449 445	976 600 610 563 596 713 809 833 764 667 728 706 897 658 479 535 593	AUGUST 556 518 494 473 470 579 658 343 343 3443 644 602 139 230 418 475	 628 562 568 528 530 659 741 795 665 578 629 680 677 492 378 495 515	743 776 770 834 866 1100 879 889 991 936 913 924 900 910 858 842 878 882 886 717	SEPTEMBE 607 643 643 695 695 703 758 783 809 835 809 820 798 793 753 752 762 784 633 441 655 724	655 695 710 763 761 750 810 833 869 880 872 879 853 855 810 807 819 834 838 570 741 765
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	505 547 514 558 533 486 506 485 480 590 719 463 527 485 495 488 511 699 480 606 414 490	JUNE 441 433 440 434 414 430 426 417 407 398 383 389 413 406 421 426 408 501 400 374 404 386 386 414 416	477 473 466 471 460 456 445 442 431 429 419 474 440 457 462 458 554 554 554 554 57 406	503 481 477 471 448 472 493 498 504 594 494 624 530 552 568 506 388 616	JULY 422 412 434 421 400 396 438 444 448 447 407 421 444 432 399 200 226	448 439 457 451 429 428 470 473 478 505 442 464 479 445 475 307 	976 600 610 563 596 713 809 833 764 667 728 706 897 658 479 535 593 713 804 850 736 673	AUGUST 556 518 494 473 470 579 658 737 568 343 343 644 602 139 230 418 475 593 651 736 631 416	 628 562 568 528 530 659 741 795 665 578 629 680 677 492 378 495 515	743 776 770 834 866 1100 879 889 991 936 913 924 900 910 858 842 878 882 886 717 797 826 793 647 786	SEPTEMBE 607 643 643 695 695 703 7583 809 835 809 825 798 793 753 752 762 784 633 441 655 724 7531 473 647	655 695 710 763 761 750 810 833 869 880 872 873 855 810 807 814 838 570 741 741 765 703 552 733
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	505 547 514 558 533 486 506 485 480 590 719 463 527 485 495 495 496 606 414 719 4640 575 522	JUNE 441 433 440 434 414 430 426 417 407 398 383 389 413 406 421 426 408 501 400 374 404 386 386 414 416 439 389	477 473 466 471 460 456 445 442 431 429 419 474 440 457 462 458 554 587 406 515 399 419 442 452 502 452	503 481 477 471 448 472 493 498 504 594 494 624 530 552 568 506 388 616 561	JULY 422 412 434 421 400 396 438 444 448 447 407 421 444 432 399 200 226	448 439 457 451 429 428 470 473 478 505 442 464 479 445 475 307	7. ————————————————————————————————————	AUGUST 556 518 494 473 470 579 658 737 568 343 343 644 602 230 418 475 593 651 736 631 416 402 487	 628 562 568 528 530 659 741 795 665 578 629 680 677 492 378 495 515	743 776 770 834 866 1100 879 991 936 913 924 900 910 858 842 878 882 886 717 797 826 793 647 786	SEPTEMBE 607 643 643 695 695 703 758 783 809 835 809 820 798 793 753 752 762 762 764 633 441 655 724 531 473 647	655 695 710 763 761 750 810 833 869 880 872 879 853 855 810 807 819 834 838 570 741 765 703 552 733
1 2 2 3 4 5 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	505 547 514 558 533 486 506 485 480 590 719 463 527 485 495 488 511 699 480 606 414 719 464 490	JUNE 441 433 440 434 414 430 426 417 407 398 383 389 413 406 421 426 408 501 400 374 404 386 386 414 416 439 389 390	477 473 466 471 460 456 445 442 431 429 419 474 440 457 462 458 554 554 587 406 515 399 419 442 452 452 454 454 454 454 454 455 456 456 457 457 457 457 457 457 457 457 457 457	503 481 477 471 448 472 493 498 504 594 494 624 530 552 568 506 388 616 561 	JULY 422 412 434 421 400 396 438 444 448 447 407 421 444 432 399 200 226	448 439 457 451 429 428 470 473 478 505 442 464 479 445 475 307 	7 976 600 610 563 596 713 809 833 764 667 728 706 897 658 479 535 593 713 804 850 736 673 645 699 668	AUGUST 556 518 494 473 470 579 658 343 343 3444 602 139 230 418 475 593 651 736 631 416 402 487	 628 562 568 530 659 741 795 665 578 629 680 677 492 378 495 515	743 776 770 834 866 1100 879 889 991 936 913 924 900 910 858 842 878 882 886 717 797 826 793 647 786	SEPTEMBE 607 643 643 695 695 703 758 783 809 835 809 820 798 793 753 752 762 764 633 441 655 724 433 647 726 726 727 726 726 727 726 727 726 727 726 727 726 727 728	655 695 710 763 761 750 810 833 869 880 872 879 853 855 810 807 819 834 838 570 741 765 703 552 733
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	505 547 514 558 533 486 506 485 480 590 719 463 527 485 495 495 496 606 414 719 4640 575 522	JUNE 441 433 440 434 414 430 426 417 407 398 383 389 413 406 421 426 408 501 400 374 404 386 386 414 416 439 389	477 473 466 471 460 456 445 442 431 429 419 474 440 457 462 458 554 587 406 515 399 419 442 452 502 452	503 481 477 471 448 472 493 498 504 594 494 624 530 552 568 506 388 616 561 	JULY 422 412 434 421 400 396 438 444 448 447 407 421 444 432 399 200 226	448 439 457 451 429 428 470 473 478 505 442 464 479 445 475 307	7. ————————————————————————————————————	AUGUST 556 518 494 473 470 579 658 737 568 343 343 644 602 230 418 475 593 651 736 631 416 402 487	 628 562 568 528 530 659 741 795 665 578 629 680 677 492 378 495 515	743 776 770 834 866 1100 879 991 936 913 924 900 910 858 842 878 882 886 717 797 826 793 647 786	SEPTEMBE 607 643 643 695 695 703 758 783 809 835 809 820 798 793 753 752 762 762 764 633 441 655 724 531 473 647	655 695 710 763 761 750 810 833 869 880 872 879 853 855 810 807 819 834 838 570 741 765 703 552 733
1 2 2 3 4 4 5 6 6 7 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	505 547 514 558 533 486 506 485 480 590 719 463 527 485 495 488 511 690 699 480 606 414 719 464 490 575 522 523 7545	JUNE 441 433 440 434 414 430 426 417 407 398 383 406 421 426 408 501 400 374 404 386 386 386 389 413 406 421	477 473 466 471 460 456 445 442 431 429 419 474 440 457 462 458 554 406 515 399 419 419 424 457	503 481 477 471 448 472 493 498 504 594 494 624 530 552 568 506 388 616 561 	JULY 422 412 434 421 400 396 438 444 448 447 407 421 444 432 399 200 226	448 439 457 451 429 428 470 473 478 505 442 464 479 445 475 307	7 976 600 610 563 596 713 809 833 764 667 728 706 897 658 479 535 593 713 804 850 736 673 645 699 668 585	AUGUST 556 518 494 473 470 579 658 343 343 3443 3644 602 139 230 418 475 593 651 736 631 416 402 487 315 366	 628 562 568 528 530 659 741 795 665 578 629 680 677 492 378 495 515	743 776 770 834 866 1100 879 889 991 936 913 924 900 910 858 842 878 882 877 797 826 793 647 786	SEPTEMBE 607 643 643 695 695 703 758 783 809 835 809 820 798 793 753 752 762 784 633 441 655 724 531 473 647	655 695 710 763 761 750 810 833 869 880 872 879 853 855 810 807 819 834 834 835 70 741 765 703 570 741 765 703 766 767 747
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 30 30 30 30 30 30 30 30 30 30 30 30	505 547 514 558 533 486 590 719 463 527 485 495 495 496 606 414 719 464 490 575 522 537 545 523	JUNE 441 433 440 434 414 430 426 417 407 398 383 389 413 406 421 426 408 501 400 374 404 386 386 414 416 439 389 390 429 466	477 473 466 471 460 456 445 442 431 429 419 474 440 457 462 458 554 587 599 419 442 452 502 445 452 4467 496	503 481 477 471 448 472 493 498 504 594 624 530 552 568 506 388 616 561 	JULY 422 412 434 421 400 396 438 444 448 447 407 421 444 432 399 200 226	448 439 457 451 429 428 470 473 478 505 442 464 479 445 475 307	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	AUGUST 556 518 494 473 470 579 658 737 568 343 343 644 602 139 230 418 475 593 651 736 631 416 402 487 315 366 585	 628 562 568 528 530 659 741 795 665 578 629 680 677 492 378 495 515	743 776 770 834 866 1100 879 889 991 936 913 924 900 910 858 842 878 882 886 717 797 826 793 647 786	SEPTEMBE 607 643 643 695 695 703 758 783 809 835 809 820 798 793 753 752 762 762 764 633 441 655 724 531 473 647 726 7264 728 564 470	655 695 710 763 761 750 810 833 869 880 872 879 853 855 810 807 819 834 838 570 741 765 703 552 733
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 31	505 547 514 558 533 486 590 719 463 527 485 495 488 511 690 699 699 480 575 522 537 523 	JUNE 441 433 440 434 414 430 426 417 407 398 383 406 421 426 408 501 400 374 404 386 386 411 416 439 389 399 466	477 473 466 471 460 456 445 442 431 429 474 440 457 462 458 554 406 515 399 419 442 452 452 467 496 	503 481 477 471 448 472 493 498 504 594 624 530 552 568 506 388 616	JULY 422 412 434 421 400 396 438 444 448 447 407 421 444 432 399 200 226	448 439 457 451 429 428 470 473 478 505 442 464 479 445 475 307	7 976 600 610 563 596 713 809 833 764 667 728 706 897 658 479 535 593 713 804 850 736 673 645 699 668 585 745 801	AUGUST 556 518 494 473 470 579 658 343 343 3443 602 139 230 418 475 593 651 736 631 416 402 487 315 366 585 280	 628 562 568 528 530 659 741 795 665 578 629 680 677 492 378 495 515 666 735 793 679 612 467 643 454 656	743 776 770 834 866 1100 879 889 991 936 913 924 900 910 858 842 878 882 797 797 826 793 647 7786	SEPTEMBE 607 643 643 695 695 703 758 783 809 835 809 820 798 793 753 752 762 784 633 441 655 724 531 473 647 726 724 728 726 724 728 726 724 728 726 724 728 726 724 726 724 726 724 726 724 726 724 726 724 726 724 726 724 726 726 727 726 726 727 726 726 726 727 726 726	655 695 710 763 761 750 810 833 869 880 872 879 853 855 810 807 819 834 838 570 741 765 703 752 733

06711565 SOUTH PLATTE RIVER AT ENGLEWOOD, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			OVEMBER			ECEMBER			JANUARY	
1 2 3 4 5	15.5 14.6 14.4 15.1 15.5	11.3 10.6 10.7 10.0 10.6	13.4 12.6 12.6 12.4 13.0	10.7 9.7 11.1 11.3 11.1	8.2 5.4 7.5 7.4 7.7	9.3 8.0 9.1 9.4 9.5	7.3 7.7 6.3 5.5 4.4	4.6 5.5 2.6 2.5 1.4	5.9 6.6 4.0 3.8 3.0	4.9 4.6 3.2 2.8 3.6	2.8 2.8 1.3 .0 1.6	4.0 3.8 2.3 1.4 2.5
9	15.7 14.6 14.9 16.0 16.1	12.3 11.8 10.0 10.8 11.6	14.1 13.6 12.4 13.5 13.8	11.3 11.3 11.6 11.5 10.6	7.3 7.7 8.5 8.5 7.2	9.4 9.6 10.1 10.0 9.1	6.3 5.0 4.0 3.5 3.7	2.6 3.0 2.7 .8 1.6	4.4 4.0 3.5 2.3 2.7	2.4 3.1 4.3 3.7 4.7	.0 .1 1.5 1.5	1.2 1.7 2.8 2.5 2.7
12 13	16.4 15.4 15.3 15.4 12.1	11.5 11.6 11.3 11.1	14.0 13.6 13.4 13.0 11.4	9.5 10.3 9.8 9.9 10.0	8.0 6.4 6.4 6.5 6.5	8.8 8.4 8.4 8.6 8.6	4.7 4.3 4.4 3.5 2.9	2.3 1.9 2.5 .8	3.3 3.1 3.3 2.3 1.6	5.3 5.6 4.5 4.4 5.5	1.4 2.9 1.9 1.5 2.1	3.5 4.2 3.3 3.1 3.8
17 18	11.0 11.2 9.5 11.7 12.3	7.1 6.5 8.0 7.2 8.0	9.1 8.6 8.5 9.2 10.2	10.1 10.6 9.3 8.4 9.1	6.8 7.2 6.9 4.9 6.2	8.6 8.9 8.4 6.8 7.7	5.4 4.9 4.4 3.3 2.6	2.1 3.4 2.0 1.6	3.7 4.4 3.3 2.5 1.7	5.3 5.8 6.3 6.5 5.5	3.1 3.0 3.6 3.2 2.4	4.1 4.5 4.9 4.9
22 23 24		8.7 8.9 8.8 8.8	10.8 11.1 11.0 10.9 10.9	8.3 5.7 6.4 5.2 5.8	5.7 4.1 4.1 2.5 3.0	7.1 4.5 5.2 4.1 4.3	2.4 2.8 4.4 4.5 4.6	1.2 .1 2.0 1.7 2.1	1.8 1.4 3.2 3.2 3.4	5.6 5.4 4.9 5.1 4.3	2.6 2.6 2.1 1.7 3.0	4.2 4.0 3.4 3.5 3.7
27 28	12.8 13.0 11.9 11.1 10.7 11.8	8.6 9.2 8.4 8.9 6.8 7.4	10.8 11.0 10.4 10.2 8.8 9.7	8.8 7.8 7.8 7.6 7.0	5.2 5.3 4.5 4.8 5.2	6.7 6.5 6.2 6.4 6.1	4.3 4.6 5.5 5.1 4.6 4.8	1.9 2.1 2.5 2.1 1.9 1.8	3.3 3.4 4.0 3.8 3.5 3.5	3.8 4.2 4.5 3.8 3.6 4.0	2.1 2.5 1.9 1.0 .2	3.0 3.2 3.1 2.4 2.0 2.3
	16.4	6.5	11.5	11.6	2.5	7.8	7.7	.1	3.4	6.5	.0	3.2
MONTH			11.5									
MONTH	MAX	MIN			MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	MAX	MIN FEBRUARY	MEAN	MAX	MIN MARCH			APRIL			MIN MAY	MEAN
	MAX	MIN	MEAN	MAX	MIN MARCH	7.6 6.9 7.4 8.6 8.8						MEAN 15.3 15.7 15.8
DAY 1 2 3 4	MAX 4.8 5.3 6.2 6.0 5.8	MIN FEBRUARY .6 1.9 2.6 2.4 2.8	MEAN 2.7 3.8 4.5 4.2 4.4	MAX	MIN MARCH 5.5 6.3 4.6 5.6 6.3			APRIL 4.4 4.7 3.7 5.8 7.1		17.9 19.6 20.7 20.0	MAY 10.4 11.7 12.2 12.7 13.1	 15.3 15.7 15.8
DAY 1 2 3 4 5 6 7 8 9 10 11 12	MAX 4.8 5.3 6.2 6.0 5.8 7.1 7.6 7.3 5.9 6.0	MIN FEBRUARY .6 1.9 2.6 2.4 2.8	MEAN 2.7 3.8 4.5 4.2 5.6 5.5 5.1 5.0	9.1 8.1 9.8 11.0	MIN MARCH 5.5 6.3 4.6 5.6 6.3 5.7 6.5 5.9 5.1 3.9	7.6 6.9 7.4 8.6 8.8 8.0 8.1 7.9 6.3 6.1	11.7 8.4 11.0 14.5 15.1 14.7 12.8 14.8 13.8 12.6	APRIL 4.4 4.7 3.7 5.8 7.1 8.1 7.4 6.2 7.8 8.5	7.8 6.7 6.9 9.9 11.1 11.6 10.2 10.6 11.3 11.0	17.9 19.6 20.7 20.0 18.7 18.5 14.4 18.8 19.3	MAY 10.4 11.7 12.2 12.7 13.1 13.6 11.9 11.3	15.3 15.7 15.8 15.6 15.4 13.3 14.6 15.5 14.4 13.8 13.9
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	MAX 4.8 5.3 6.2 6.0 5.8 7.1 7.6 7.3 5.9 6.0	MIN FEBRUARY .6 1.9 2.6 2.4 2.8 2.9 3.5 3.7 4.1 3.5	MEAN 2.7 3.8 4.5 4.2 5.6 5.5 5.1 5.0	9.1 8.1 9.8 11.0 10.8 9.7 9.4 9.4 8.0 7.8	MIN MARCH 5.5 6.3 4.6 5.6 6.3 5.7 6.5 5.9 5.1 3.9	7.6 6.9 7.4 8.6 8.8 8.0 8.1 7.9 6.3 6.1	11.7 8.4 11.0 14.5 15.1 14.7 12.8 14.8 13.8 12.6 15.0 15.3 15.3 14.1 12.3	APRIL 4.4 4.7 3.7 5.8 7.1 8.1 7.4 6.2 7.8 8.5	7.8 6.7 6.9 9.9 11.1 11.6 10.2 10.6 11.3 11.0	17.9 19.6 20.7 20.0 18.7 18.5 14.4 18.8 19.3 16.1 16.6 18.2 17.2 19.5	MAY 10.4 11.7 12.2 12.7 13.1 13.6 11.9 11.3 12.4 13.0 11.8 10.2 11.6	15.3 15.7 15.8 15.6 15.4 13.3 14.6 15.5 14.4 13.8 13.9 14.6
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MAX 4.8 5.3 6.2 6.0 5.8 7.1 7.6 7.3 5.9 6.0 5.1 4.5 6.6 7.1 6.0 7.1 6.0 7.1 6.0	MIN FEBRUARY .6 1.9 2.6 2.4 2.8 2.9 3.5 3.7 4.1 3.5 3.3 2.0 3.3 3.0 4.6 3.4 1.7 1.3 1.6	MEAN 2.7 3.8 4.5 4.2 4.4 5.2 5.6 5.5 5.1 5.0 4.2 3.3 4.9 6.4 5.5 3.8 3.2 4.2	MAX 9.1 8.1 9.8 11.0 10.8 9.7 9.4 9.4 8.0 7.8 9.6 10.1 10.8 10.2 9.1 9.4 10.1 8.0 9.9	MIN MARCH 5.5 6.3 4.6 6.3 5.7 6.5 5.9 5.1 3.9 4.4 6.6 6.2 1.9 1.9 4.2 5.6 4.0	7.6 6.9 7.4 8.6 8.8 8.0 8.1 7.9 6.3 6.1 7.1 8.2 8.1 5.6	11.7 8.4 11.0 14.5 15.1 14.7 12.8 14.8 13.8 12.6 15.0 15.3 15.3 14.1 12.3	APRIL 4.4 4.7 5.8 7.1 8.1 7.4 6.2 7.8 8.5 8.2 8.5 9.6 9.8 7.9 7.3 9.3 9.3 9.7 7.9	7.8 6.7 6.9 9.9 11.1 11.6 10.2 10.6 11.3 11.0 11.5 12.1 12.2 9.1	17.9 19.6 20.7 20.0 18.7 14.4 18.8 19.3 16.1 16.6 18.2 17.2 19.5 20.7 15.3 12.5 18.6	MAY 10.4 11.7 12.2 12.7 13.1 13.6 11.9 11.3 12.4 13.0 11.8 10.2 11.6 9.8 9.5 10.9	15.3 15.7 15.6 15.6 13.3 14.6 15.5 14.4 13.8 13.9 14.6 15.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	MAX 4.8 5.3 6.2 6.0 5.8 7.1 7.6 7.3 5.9 6.6 7.5 8.0 7.1 6.6 7.5 6.5 8.7 7.7 9.7	MIN FEBRUARY .6 1.9 2.6 2.4 2.8 2.9 3.5 3.7 4.1 3.5 3.3 2.0 3.3 3.0 4.6 3.4 1.7 1.3 1.6 2.7 3.9 5.0 5.4	MEAN 2.7 3.8 4.5 4.2 4.4 5.2 5.6 5.5 5.1 5.0 4.2 3.3 4.9 5.3 6.4 5.5 3.8 3.2 4.7 6.4 6.6 7.3	MAX 9.1 8.1 9.8 11.0 10.8 9.7 9.4 8.0 7.8 9.6 10.1 10.8 10.2 9.1 9.4 10.1 8.0 9.9 8.7	MIN MARCH 5.5 6.3 4.6 6.3 5.7 6.5 5.9 3.9 4.4 6.6 6.2 1.9 1.9 4.2 6.4 0.3.5 3.0 4.6 6.9 7.7 7.2 8.5	7.6 6.9 7.4 8.6 8.8 8.0 7.1 8.2 8.1 7.1 8.5 5.6 5.3 7.1 6.7 7.1 5.7	11.7 8.4 11.0 14.5 15.1 14.7 12.8 14.8 13.8 12.6 15.3 15.3 14.1 12.3 15.3 16.7 15.2 16.3	APRIL 4.4 4.7 3.7 5.8 7.1 8.1 6.2 7.8 8.5 9.6 9.8 7.9 7.3 9.9 7.3 9.9 10.2 10.9 10.2 10.9 10.4	7.8 6.7 6.9 9.9 11.1 11.6 10.2 10.6 11.3 11.0 11.5 12.1 12.6 12.2 9.1 10.9 13.2 13.0 11.9	17.9 19.6 20.7 20.0 18.7 18.5 14.4 18.8 19.3 16.1 16.6 18.2 17.2 19.5 20.7 15.3 12.5 18.6 19.2	MAY 10.4 11.7 12.2 12.7 13.1 13.6 11.9 11.3 12.4 13.0 11.8 10.2 11.6 11.9 12.6 9.8 9.5 10.9 13.5	15.3 15.7 15.8 15.6 15.4 13.3 14.6 15.5 14.4 13.8 13.9 14.6 15.5 16.1 12.7 11.0 14.5 16.1 16.4 16.2 16.7 16.3

06711565 SOUTH PLATTE RIVER AT ENGLEWOOD, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	IR
1 2 3 4 5	21.0 19.3 21.8 20.6 22.3	14.9 14.4 15.2 15.7 15.2	17.9 16.9 18.2 18.0 18.4	22.5 23.1 22.2 24.1 24.4	16.4 16.5 16.7 16.7	19.4 19.7 19.5 20.4 20.3	 22.6 24.2	 19.5 19.2	 21.2 21.9	21.5 22.9 21.4 22.9 23.7	17.4 17.6 17.2 17.3 18.6	19.5 20.4 19.5 20.1 21.1
6 7 8 9 10	22.9 23.4 22.9 22.1 22.3	15.8 16.1 16.5 16.6 16.6	18.9 19.5 19.4 19.1 18.9	24.8 23.2 23.4 24.5 24.9	17.0 18.3 17.6 18.3 18.4	20.9 21.0 20.7 21.5 21.9	25.2 24.5 25.8 25.4 26.4	18.6 18.6 18.8 19.5 19.8	22.0 21.9 22.4 22.6 23.0	23.2 22.0 20.1 22.2 23.0	18.5 16.8 17.4 16.1 17.2	20.7 19.2 18.7 18.8 19.7
11 12 13 14 15	21.7 22.5 21.9 23.0 22.3	17.0 16.5 17.1 15.2 16.0	18.9 19.2 18.8 19.0 19.1	25.1 22.0 25.1 25.0 24.2	18.4 18.2 17.8 18.1 18.6	21.6 20.3 21.2 21.5 21.4	26.4 22.8 25.7 25.4 26.0	20.7 21.0 19.4 19.9 21.1	23.2 22.0 22.3 22.9 23.4	20.9 21.9 22.6 22.1 22.7	16.9 15.9 16.7 17.0 16.7	18.8 18.6 19.3 19.1 19.3
16 17 18 19 20	18.5 18.9 19.7 21.6 22.7	14.6 14.2 14.6 16.4 16.0	15.8 16.1 17.3 18.4 18.8	22.3 21.0 24.1 24.6	18.6 18.8 18.4 18.4	20.5 19.9 21.0 21.5	23.5 23.4 21.0 25.8 24.0	20.5 17.5 18.3 19.2 19.2	21.9 20.1 19.6 22.1 21.6	23.0 22.6 20.8 20.8 17.0	17.0 17.3 17.9 16.2 14.0	19.7 19.5 19.0 18.3 15.0
21 22 23 24 25	22.9 23.2 21.7 21.6 19.7	15.5 16.2 16.4 15.7 16.2	19.0 19.1 18.8 18.7 18.0	 	 	 	21.3 22.4 23.9 23.5 24.6	18.1 17.8 18.0 19.1 19.8	19.9 20.1 21.0 21.5 22.0	16.6 16.2 11.5 10.5 14.1	12.2 11.5 9.0 7.9 8.0	14.6 13.6 10.4 9.1 11.1
26 27 28 29 30 31	17.6 21.0 19.6 23.0 22.6	16.2 15.7 16.2 15.8 17.0	16.8 17.6 17.8 19.3 20.0	 	 	 	24.5 24.3 24.5 23.7 22.4 21.1	19.9 18.0 19.1 18.9 19.0	21.5 21.1 21.4 21.3 21.0 19.7	16.1 16.9 17.6 18.5 18.6	10.7 11.7 12.4 14.1 13.6	13.6 14.6 15.3 16.2 16.2
MONTH YEAR	23.4 26.4	14.2	18.4 11.6	25.1	16.4	20.7	26.4	17.5	21.6	23.7	7.9	17.3

06712000 CHERRY CREEK NEAR FRANKTOWN, CO

LOCATION.--Lat $39^{\circ}21^{\circ}21^{\circ}$, long $104^{\circ}45^{\circ}46^{\circ}$, in $\mathrm{NE}^{1}/_{4}$ sec.15, T.8 S., R.66 W., Douglas County, Hydrologic Unit 10190003, on right bank 1.3 mi downstream from Castlewood Dam site, 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.

		DISCHA	RGE, CUBI	C FEET PER		WATER YE MEAN VA		R 1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	11 11 11 11	12 12 12 12 12	16 16 14 11 7.0	15 15 14 e9.2	e11 12 12 14 13	16 16 16 17 18	30 33 34 40 43	16 15 11 10 9.3	6.4 6.0 6.4 6.2 5.8	6.4 5.8 5.3 4.6 3.5	1.3 1.2 1.2 1.3 1.3	29 9.4 9.2 8.1 7.7
6 7 8 9 10	11 11 11 11 11	12 13 13 13 13	10 12 13 e11 12	e9.0 12 14 13	15 15 16 18 15	17 18 25 24 22	39 32 27 25 23	9.4 9.0 11 17 15	5.4 5.2 5.0 4.9 3.1	2.9 2.6 2.5 2.4 2.5	1.2 1.2 1.2 1.1 1.2	5.9 5.8 5.5 5.2 4.5
11 12 13 14 15	13 12 11 11	13 13 13 12 13	13 12 13 12 e10	13 13 13 14 14	16 14 15 15	19 19 19 18 17	22 21 20 19 18	12 8.3 9.0 9.2 8.9	3.9 3.8 3.4 3.2 3.2	2.6 2.6 2.7 2.3 2.0	1.2 1.2 1.3 1.3	3.1 3.5 3.5 3.1 3.2
16 17 18 19 20	11 12 13 14 14	13 13 13 12 12	12 14 13 12 11	16 18 20 23 20	18 17 14 15	16 20 25 22 27	18 18 16 12 11	9.1 16 29 21 17	3.4 4.1 4.9 4.7 4.3	1.7 15 4.2 3.0 2.4	1.3 3.9 15 6.1 5.7	3.3 3.4 3.3 3.3 4.1
21 22 23 24 25	14 14 13 13	13 13 13 10 11	e11 12 13 12 12	21 19 17 15 16	18 19 22 21 20	19 23 32 33 32	11 11 11 11 10	14 13 11 9.7	3.9 3.9 4.2 4.1 4.1	2.3 1.8 1.9 1.7	5.1 4.2 4.2 4.1 4.4	4.2 4.7 5.5 7.4 7.3
26 27 28 29 30 31	12 12 12 12 12 12	14 16 17 17 16	12 13 14 13 13	14 14 13 e11 e11 e11	17 17 16 16 	29 24 23 22 22 25	4.8 7.6 9.9 10 14	12 11 10 8.4 7.7 6.8	5.1 6.9 7.4 7.2 6.8	1.8 1.6 1.5 1.6 1.4	4.9 6.6 7.2 13 10 33	6.8 6.4 6.1 5.9 5.9
TOTAL MEAN MAX MIN AC-FT	371 12.0 14 11 736	391 13.0 17 10 776	382.0 12.3 16 7.0 758	451.2 14.6 23 9.0 895	464 16.0 22 11 920	675 21.8 33 16 1340	601.3 20.0 43 4.8 1190	377.8 12.2 29 6.8 749	146.9 4.90 7.4 3.1 291	95.8 3.09 15 1.3 190	147.1 4.75 33 1.1 292	184.3 6.14 29 3.1 366
				OR WATER Y								
MEAN MAX (WY) MIN (WY)	4.48 29.1 1985 .97 1953	5.69 30.7 1985 1.32 1955	5.17 25.2 1985 1.41 1964	5.30 17.7 1985 1.57 1951	8.68 29.3 1948 1.99 1956	22.2 184 1960 2.36 1972	19.8 138 1984 1.70 1963	16.1 138 1973 1.43 1963	8.87 42.6 1983 1.12 1954	7.23 43.8 1957 .80 1981	9.04 59.9 1945 .76 1962	3.51 18.2 1984 .78 1950
SUMMARY	STATISTI	CS	FOR	1999 CALEN	DAR YEAR	F	OR 2000 W	ATER YEAR		WATER Y	EARS 1940	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN AN N MINIMUM AK FLOW AK STAGE C-FT) DS DS		7599.2 20.8 468 3.0 4.9 15070 31 12 7.3	Apr 30 Feb 9 Mar 28		4287.4 11.7 43 1.1 1.2 181 4.6' 8500 20 12 2.6	Apr 5 Aug 9 Aug 5 Jul 17 7 Jul 17		9.6 31.9 2.8 1400 a.2 b9170 c4.9 7020 17 4.5 1.3	9 May 0 Jul 9 Jul Aug 1 Aug	1984 1954 6 1973 13 1946 10 1946 5 1945 5 1945

e Estimated.

Also occurred Sep 30 and Oct 1, 1950.

b Site and datum then in use, by float measurement.

C Maximum gage height, 7.43 ft, Aug 2, 1997, current site and datum.

393109104464500 CHERRY CREEK NEAR PARKER, CO

LOCATION.--Lat $39^{\circ}31^{\circ}09^{\circ}$, long $104^{\circ}46^{\circ}45^{\circ}$, in $SE^{1}/_{4}NW^{1}/_{4}NE^{1}/_{4}$ 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 Parker.

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 discharges above 200 ${\rm ft}^3/{\rm s}$, and 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.

		DISCHAF	RGE, CUBIC	FEET PER		WATER YEA MEAN VAL		. 1999 TO	SEPTEMBER	2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	9.2 9.8 10 9.7 9.1	11 11 11 12 12	11 12 11 11 6.3	20 19 17 13 19	16 21 22 21 21	18 19 19 20 20	26 30 32 33 43	22 20 18 14 11	7.9 7.8 8.0 7.6 6.7	3.2 3.2 3.2 3.3 3.2	4.8 4.0 3.9 4.0 3.9	13 6.9 3.9 4.2 4.3
6 7 8 9 10	9.1 9.3 8.7 8.8 8.6	11 11 10 9.6 9.4	12 14 14 10 14	12 14 20 19 20	23 22 23 25 23	19 19 25 22 21	47 42 37 34 32	11 11 13 17 18	5.9 5.3 4.9 4.6 4.5	2.0 1.5 1.5 2.8 3.3	5.5 5.6 5.2 5.0	4.7 4.9 4.9 5.4 5.3
11 12 13 14 15	8.9 9.6 8.3 8.3	9.9 9.7 9.4 9.6 8.9	15 14 18 16 11	21 23 20 20 21	23 23 23 22 22	20 19 19 19	31 30 29 26 27	17 13 11 11	4.4 4.2 3.8 3.6 3.5	3.3 2.2 1.7 1.7	4.9 4.9 4.9 4.8 4.4	5.5 5.6 5.5 5.5 5.5
16 17 18 19 20	9.1 9.9 9.8 11	8.5 8.9 9.3 8.7 9.0	17 20 19 17 15	22 24 26 30 30	23 19 20 18 19	22 22 27 24 24	26 25 24 21 19	9.6 40 38 28 22	3.4 3.6 3.5 3.3 3.2	e1.7 e5.1 3.5 3.5 3.8	3.0 8.2 7.1 1.6 .99	5.4 5.3 6.0 5.6 5.6
21 22 23 24 25	12 11 10 10	9.2 11 9.9 7.1 6.4	13 14 17 17	28 27 24 23 26	19 22 25 24 23	25 23 27 32 31	17 16 17 17 17	21 17 16 15 17	3.2 3.1 3.1 3.2 3.3	2.4 2.0 2.2 4.1 5.2	e1.9 e1.0 e.71 .78 1.9	4.7 5.6 6.8 7.1 5.4
26 27 28 29 30 31	10 9.9 10 10 11	9.0 10 9.9 11 12	16 18 19 19 18	24 23 21 15 15	22 19 19 18 	29 25 22 23 20 25	15 12 11 13 24	17 17 16 14 13	3.2 3.1 3.1 3.0 3.0	5.6 4.5 3.7 3.8 4.0 5.5	2.4 2.3 4.4 8.4 2.7 2.8	5.5 5.2 5.3 5.2 5.3
TOTAL MEAN MAX MIN AC-FT	301.2 9.72 12 8.1 597	295.4 9.85 12 6.4 586	463.3 14.9 20 6.3 919	652 21.0 30 12 1290	620 21.4 25 16 1230	699 22.5 32 18 1390	773 25.8 47 11 1530	529.6 17.1 40 9.6 1050	131.0 4.37 8.0 3.0 260	98.4 3.17 5.6 1.5 195	120.98 3.90 8.4 .71 240	169.1 5.64 13 3.9 335
STATIST MEAN MAX (WY) MIN (WY)	3.56 9.72 2000 1.26 1992	5.11 9.85 2000 .79 1995	5.88 14.9 2000 .76 1995	7.89 21.0 2000 1.51 1995	11.6 21.4 2000 1.74 1995	- 2000, 17.7 42.8 1992 3.82 1995	20.2 47.4 1998 8.15 1997	YEAR (WY) 20.8 87.9 1999 4.15 1997	13.1 47.5 1999 1.87 1994	7.33 18.3 1998 1.04 1994	8.75 29.1 1998 .58 1994	3.62 10.3 1999 .73 1994
SUMMARY	STATIST:	ICS	FOR 1	.999 CALEN	DAR YEAR	FC	R 2000 WA	TER YEAR		WATER Y	EARS 1992	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT ANNUAL 10 PERC	MEAN TANNUAL MANNUAL MANNUAL MANNUAL MANNUAL MANALY MEANANEOUS PROPERTY OF THE PROPERTY OF T	EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		8324.2 22.8 e348 6.3 7.7 16510 42 12 9.0	May 1 Dec 5 Mar 26		4852.98 13.3 47 e.71 1.3 160 5.57 9630 25 11 3.2	Apr 6 Aug 23 Aug 19 May 17		10.5 21.8 5.0 e348 .4 a900 b9.6 7570 23 6.0	3 May 13 Aug 2 15 Aug 2 Jul 3 55 Jul 3	1999 1997 1 1999 14 1994 11 1994 10 1998 10 1998

e Estimated.

a From slope-area measurement of peak flow. b From floodmark.

06713000 CHERRY CREEK BELOW CHERRY CREEK LAKE, CO

LOCATION.--Lat $39^\circ39^\circ10^\circ$, long $104^\circ51^\circ40^\circ$, in $SW^1/_4SW^1/_4$ 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. Datum of gage is 5,490.51 ft above sea level, (Corps of Engineers bench mark).

REMARKS.--Records fair except for estimated daily discharges, 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, $34,000 \text{ ft}^3/\text{s}$, Aug. 3, 1933, by slope-area measurement near present site (Castlewood Dam failure). DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		DISCHARG	JE, CUBI	C FEEL PER		MEAN VA		1999 10) SEPIEMBI	SR 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	28	22	22	31	42	59	14	21	.17	9.6	15
2	.00	27 31	23 23	21 21	28 28	37 38	50 52	9.8 10	21 22	.20 .15	9.5 4.8	15 16
4	.00	31	22	20	27	38	52	10	22	.19	.20	17
5	.00	30	22	20	34	38	51	11	22	.19	.22	17
6 7	.00	29 29	22 22	18 20	36 37	43 27	51 81	11 11	17 11	.19 .24	.20	18 18
8	.00	29 29	25	20	40	17	81 97	11	10	.24	.20 .22	13
9	.01	28	28	22	50	17	98	10	6.0	.34	2.1	2.9
10	.00	28	27	21	52	17	97	10	4.4	.39	2.2	2.8
11 12	.00	28 29	27 28	21 6.6	60 59	17	58 28 29 29 27	10	4.3	.39 .44	.24	2.9
13	.00	27	28	11	56	23	29	9.5	.14		.21	2.4
14	.00	26	29	20	67	24	29	9.0	.14 .14	.43	.21	2.8
15	.00	23	26	22	60	26	27	8.9	.14	.42	.22	1.7
16 17	.00	20 20	25 25	23 26	39 34	40 49	28 28	9.2 e9.1	.14 .15	.63 .67	.26 .42	.36
18	12	20	25	26	36	49	28	e8.9	.13	.34	.21	.35
19	24	20	27	21	38	39	26	16	.14	.29	.22	.43
20	24	21	30	21	44	42	27	22	.14	17	.21	.59
21	24	21	26	21	32	39	27	22	.12	28	.21	.43
22 23	25 25	21 21	26 23	24 24	33 39	35 37	27 27	22 23	.14 .14	28 28	.21 .21	.44
24	25	20	25	22	46	37	26	32	.15	28	6.8	.45
25	25	20	29	21	55	37	24	54	.14	18	15	.37
26	25 25	21	28	25	52 46 46 47	37	21 14	56	.19	10	16	8.7
27 28	25 25	21 24	24 21	30 32	46 46	38 39	14 16	81 85	.18 .18	10 9.7	16 16	18 18
29	26	20	21 22 22	31	47	41	19	85	.15	10 10	16	18
30	26	20	22	31			20	52	.15		16	19
31	26		22	29		48		19		9.6	15	
TOTAL	337.02	733 24.4	774	694.6 22.4	1252	1062	1217 40.6		165.66	212.68	149.09	232.98
MEAN MAX	10.9 26	24.4 31	25.0 30	32	43.2 67	34.3 49	40.6 98	24.2 85	5.52 22	6.86 28	4.81 16	7.77 19
MIN	.00	20	21	6.6	27	17	14	8.9	.12	.15	.20	.33
AC-FT	668	1450	1540	1380	2480	2110	2410	1490	329	422	296	462
STATIS	TICS OF M	ONTHLY MEAN	N DATA F	OR WATER Y	EARS 1950	- 2000,	BY WATER	YEAR (W)	")			
MEAN	1.64	2.77	3.40	3.17	8.12	13.2	18.0	13.5	10.1	4.78	11.6	2.76
MAX	29.6	38.5	39.1	42.4	60.3	108	166	124	243	71.3	218	54.2
(WY) MIN	1985 .000	1985 .000	39.1 1985 .000	1985 .000	1984 .000	1974 .000	1984 .000	1999 .000	1973 .000	1983 .000	1965 .000	1965 .000
(WY)	1958	1958	1958	1958	1958	1958	1958	1958	1961	1964	1957	1957
SUMMAR	Y STATIST	ICS	FOR	1999 CALEN	DAR YEAR	F	OR 2000 WA	TER YEAF	}	WATER Y	EARS 1950	- 2000
ANNUAL	TOTAL			11051.85			7580.83					
	T ANNUAL			30.3			20.7			7.7 38.8	3	1984
	'ANNUAL M T DAILY M			371	May 5		98	Apr 9)	.0 721	Aug	1967 1 1956
TOMECT	י אודע אוד	7. N.T		2 00	Sep 13		a.00	Oct 1		a.(a.(00 May	19 1957
ANNUAL	SEVEN-DA	Y MINIMUM		.00	Sep 20		.00 321	Oct 1	_	a.(00 May	19 1957
INSTAN	TANEOUS P.	EAK FLOW EAK STAGE					3∠⊥ 5 47	May 25 May 25		1600 6.9		26 1999 26 1999
ANNUAL	RUNOFF (.	AC-FT)		21920			15040	, 2		5620		
10 PER	CENT EXCE	EDS		55			41			16	10	
	CENT EXCE			21			21 .19			. (
	imated			.01			.17					

e Estimated. a No flow many days.

06713300 CHERRY CREEK AT GLENDALE, CO

LOCATION.--Lat $39^{\circ}42^{\circ}22^{\circ}$, long $104^{\circ}56^{\circ}13^{\circ}$, in $SW^{1}/_{4}NW^{1}/_{4}$ 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 satellite telemetry and crest-stage gage. Elevation of gage is 5,320 ft above sea level, from topographic map. From Feb. 24 to Aug. 2, 2000, at site 0.5 mi upstream at different datum.

REMARKS.--Records fair except for periods Oct. 1 to Feb. 23, Aug. 2 to Sept. 30, and those above 350 ft³/s, 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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		DISCHAR	GE, CUBI	S FEET PER		MEAN VA	AR OCTOBER LUES	1999 10	SEPTEMBE	SR 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	13 13 12 12 11	34 34 34 34 34	27 27 31 35 29	29 29 29 28 28	33 35 34 34 34	55 58 55 55 53	98 113 93 76 71	25 e23 e23 e19 e19	23 24 30 36 29	19 10 8.9 8.5 8.4	20 e18 16 12 11	39 21 21 26 22
6 7 8 9 10	11 9.7 9.3 8.9 8.8	34 34 34 34 33	29 29 29 28 28	28 29 29 29 29	34 34 37 42 42	56 59 40 31 30	73 93 115 115 116	e19 e19 e64 25 e19	24 21 23 22 19	8.4 8.1 8.5 8.5	10 9.7 9.1 8.7 9.0	23 25 22 15 14
11 12 13 14 15	8.7 8.5 8.4 8.3 7.8	33 33 33 33 32	27 27 27 27 28	30 24 15 28 28	42 42 42 42 42	28 27 27 27 42	86 26 25 25 32	20 20 21 27 30	25 25 18 18 19	e9.0 e15 e9.3 e45	8.7 8.1 9.4 9.4 7.5	14 14 13 11
16 17 18 19 20	27 32 30 43 39	29 28 28 27 27	28 28 28 27 27	28 28 29 29 29	42 41 45 42 40	70 56 48 45 52		29 e188 109 31 39	27 39 14 58 23	e46 e317 20 e8.1 e13	9.3 157 84 16 10	10 10 10 12 71
21 22 23 24 25	38 37 36 35 35	28 47 30 28 28	27 28 28 28 28	31 30 30 31 29	41 46 e56 e42 46	64 50 46 46 46	28 38 29 29 29	39 37 46 60 130	11 10 9.6 9.5	30 31 32 32 27	9.0 9.6 14 8.5	15 13 37 38 14
26 27 28 29 30 31	35 35 34 35 34 34	29 27 27 27 27 	28 28 28 28 29 29	33 41 37 34 34 33	53 53 53 55 	48 48 49 62 74 119		99 127 109 107 89 28	32 15 14 12 21	16 17 17 19 19	32 23 48 74 31 57	11 19 23 25 22
TOTAL MEAN MAX MIN AC-FT	709.4 22.9 43 7.8 1410	940 31.3 47 27 1860	875 28.2 35 27 1740	918 29.6 41 15 1820	1224 42.2 56 33 2430	1566 50.5 119 27 3110	1617 53.9 116 17 3210	1640 52.9 188 19 3250	663.1 22.1 58 9.5 1320	862.7 27.8 317 8.1 1710	764.0 24.6 157 7.5 1520	621 20.7 71 10 1230
STATIST	rics of Mo	ONTHLY MEA	N DATA F	OR WATER Y	EARS 1985	- 2000,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	14.8 38.0 1986 4.65 1995	14.0 33.8 1998 4.42 1995	11.8 29.8 1988 1.94 1995	14.0 45.7 1985 3.01 1995	19.5 53.2 1988 3.46 1990	30.6 75.2 1985 4.41 1995	44.4 104 1998 9.81 1991	46.3 147 1999 16.2 1993	39.6 101 1999 13.7 1990	27.9 55.9 1995 5.71 1994	30.5 72.0 1998 8.41 1986	20.3 43.0 1995 3.90 1994
SUMMARY	Y STATISTI	CS	FOR :	1999 CALEN	DAR YEAR	F	OR 2000 WA	TER YEAR		WATER YE	EARS 1985	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT ANNUAL 10 PERC		CAN CAN AN MINIMUM CAK FLOW CAK STAGE AC-FT) CDS		17862.4 48.9 389 7.8 8.5 35430 117 28 13	Apr 30 Oct 15 Oct 9		12400.2 33.9 e317 7.5 8.5 a,b1840 b,c6.30 24600 56 28 10	Jul 17 Aug 15 Jul 3 Jul 17 Jul 17		25.6 46.8 10.9 461 1.1 1.6 1970 d6.74 18520 14 4.3	May 1 Apr Sep 2 Jul 2	1999 1994 17 1995 1 1991 29 1993 20 1986 20 1986

e Estimated.

06713500 CHERRY CREEK AT DENVER, CO

LOCATION (REVISED).--Lat 39°44'33", long 104°59'58", in SE¹/₄ sec.33, T.3 S., R.68 W., Denver County, Hydrologic Unit 10190003, on left bank 100 ft downstream from Champa Street Bridge in Denver, and 1.1 mi upstream from mouth.

DRAINAGE AREA. -- 409 mi².

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 (REVISED).--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 Mar. 1, 1995, at site 0.6 mi downstream, on downstream side of Wazee Street Bridge, at different datum. Mar. 1, 1995 to May 11, 1998, at site 0.4 mi downstream, 300 ft upstream from Market Street Bridge, at different datum.

REMARKS.--Records fair except for flows above 230 cfs and estimated daily discharges, which are poor. Several diversions upstream from station for irrigation of about 1,900 acres. Floofflow 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 1999 TO SEPTEMBER 2000

		DISCHAR	GE, CUBIC	: FEET PE		MEAN VA	AR OCTOBER LUES	1999 10	SEPTEMBE	K 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	20 19 19 19	43 42 42 42 42	36 35 48 49 37	37 37 38 35 35	36 38 38 37 37	58 62 58 57 57	84 98 79 60 59	59 33 31 28 28	34 35 40 48 43	32 21 21 19 20	23 24 27 26 25	60 34 32 36 31
6 7 8 9 10	20 18 17 18 19	41 41 42 41 40	37 35 36 33 32	33 35 35 35 37	37 38 40 45 46	57 61 45 35 32	65 73 92 93 94	28 28 81 56 33	40 30 30 30 27	20 21 20 21 28	24 23 21 21 22	36 38 37 26 23
11 12 13 14 15	18 18 19 19	40 41 40 40 39	32 32 32 32 33	40 37 25 39 39	45 44 45 45 46	31 31 31 32 51	82 45 44 44 55	26 25 25 30 37	30 33 26 25 28	22 28 25 36 41	22 20 18 20 19	21 19 20 20 18
16 17 18 19 20	42 28 25 40 37	35 35 34 34 34	34 34 34 33 32	38 38 38 37 36	45 46 56 48 45	84 59 50 44 49	49 47 46 46 47	37 166 116 44 51	36 58 23 56 34	109 304 37 25 28	26 e170 e100 e50 e18	16 16 17 18 98
21 22 23 24 25	39 41 41 41 42	35 70 38 34 35	33 33 34 34 34	37 37 36 36 34	46 54 56 45 49	65 48 45 43	49 55 54 50 48	51 46 55 72 125	22 21 24 21 22	42 41 42 37 33	e17 18 22 16 23	31 25 59 61 26
26 27 28 29 30 31	41 43 46 46 41 43	39 35 34 35 36	34 34 35 35 35 36	42 52 40 37 36 36	56 56 57 58 	44 45 45 69 71 111	42 41 34 46 112	93 115 105 100 91 43	57 28 31 24 29	23 23 25 26 24 24	42 38 64 78 46 81	20 26 32 33 30
TOTAL MEAN MAX MIN AC-FT	916 29.5 46 17 1820	1179 39.3 70 34 2340	1083 34.9 49 32 2150	1147 37.0 52 25 2280	1334 46.0 58 36 2650	1613 52.0 111 31 3200	1833 61.1 112 34 3640	1858 59.9 166 25 3690	985 32.8 58 21 1950	1218 39.3 304 19 2420	1144 36.9 170 16 2270	959 32.0 98 16 1900
MEAN	15.0	13.0	10.9	10.9	16.3	25.1	BY WATER 30.5	39.1	31.6	26.1	39.7	18.3
MAX (WY) MIN (WY)	37.2 1998 3.66 1949	47.1 1998 3.61 1955	54.4 1988 3.39 1956	37.0 2000 3.17 1956	73.8 1948 4.18 1952	179 1948 3.25 1955	119 1983 3.28 1955	156 1999 6.10 1966	118 1944 3.17 1946	161 1983 3.74 1948	236 1945 4.05 1948	64.9 1965 4.03 1948
	STATISTI	CS.	FOR 1		NDAR YEAR	F	OR 2000 WA	TER YEAR		WATER YEA	ARS 1942	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC 90 PERC		CAN CAN IN CAN CAK FLOW CAK STAGE CC-FT) CDS		20770 56.9 508 17 18 41200 119 35 21	Apr 30 Oct 8 Oct 7		304 16 18 1310 7.63 30290 61 37 21	Jul 17 Aug 24 Sep 13 Jul 17 Jul 17		23.1 70.7 6.00 1350 a.40 .93 b3120 b,c5.25 16720 46 11 4.4	Jun 1 Jun 1 Aug	1983 1954 8 1945 16 1948 14 1948 5 1945 5 1945

Estimated.

Also occurred Jun 17-18, 1948.

Site and datum then in use.

Maximum gage height, 11.98 ft, Jun 28, 1997, site and datum then in use.

06714000 SOUTH PLATTE RIVER AT DENVER, CO

LOCATION.--Lat 39°45'35", long 105°00'10", in $NW^1/_4SE^1/_4$ 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.--Records good except for flows above 750 ft³/s, and estimated daily discharges, which are fair. 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.

		DISCHAF	RGE, CUB	IC FEET PI	ER SECOND, DAILY	WATER YE MEAN VA		R 1999 TO	SEPTEMBI	ER 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	217 217 213 218 256	152 163 190 189 185	230 176 232 276 239	202 207 217 211 200	165 172 174 170 172	181 181 187 182 181	350 433 378 302 307	596 597 419 415 530	349 353 374 381 373	276 284 245 245 286	172 218 180 164 173	264 186 176 162 150
6 7 8 9 10	182 183 171 179 178	188 186 195 204 210	221 211 202 191 185	182 170 165 166 167	169 171 190 194 195	180 184 184 156 149	323 313 310 301 300	525 511 898 583 434	354 334 343 391 423	274 214 222 222 239	173 184 177 131 103	150 141 141 130 122
11 12 13 14 15	179 172 175 234 273	214 213 183 180 179	184 183 184 179 168	179 184 167 179 181	198 197 198 194 193	149 152 154 147 204	289 258 255 239 292	562 439 376 358 372	419 411 352 286 244	295 274 270 300 344	104 122 148 174 132	108 108 103 95 101
16 17 18 19 20	356 325 246 248 221	197 198 193 193 188	169 174 172 169 166	185 184 184 188 196	192 196 242 210 189	368 288 e190 e154 e184	281 259 273 276 279	396 806 763 283 298	281 399 212 209 380	584 1880 705 286 267	142 1010 799 366 285	103 98 99 106 445
21 22 23 24 25	208 186 186 185 185	196 360 281 215 205	167 170 173 174 168	198 197 195 195	194 204 210 186 188	e263 212 186 180 185	234 253 272 260 255	327 343 382 398 502	199 338 330 262 261	294 245 256 224 198	186 161 154 158 185	178 193 299 379 198
26 27 28 29 30 31	165 153 153 154 155 157	223 219 217 212 228	168 170 180 200 208 194	234 267 221 198 194 192	191 188 201 184 	185 185 178 299 263 490	245 251 418 485 943	435 431 412 403 393 360	462 385 494 282 216	178 158 132 138 190 175	415 213 417 536 213 321	176 168 164 170 261
TOTAL MEAN MAX MIN AC-FT	6330 204 356 153 12560	6156 205 360 152 12210	5883 190 276 166 11670	6001 194 267 165 11900	5527 191 242 165 10960	6381 206 490 147 12660	9634 321 943 234 19110	14547 469 898 283 28850	10097 337 494 199 20030	9900 319 1880 132 19640	7916 255 1010 103 15700	5174 172 445 95 10260
MEAN MAX (WY) MIN (WY)	204 1184 1985 66.8 1978	195 809 1985 94.4 1976	143 366 1985 84.1 1978	130 282 1985 64.9 1979	YEARS 1976 145 273 1984 80.7 1977	195 420 1983 94.9 1978	443 1377 1984 99.1 1982	941 2970 1980 218 1978	855 2759 1983 164 1981	596 2546 1995 139 1994	498 1774 1984 177 1981	235 911 1984 76.5 1977
ANNUAL ANNUAL HIGHEST LOWEST HIGHEST		MEAN EAN EAN	FOR	1999 CALI 202690 555 3060 112	May 29 Feb 26	F	OR 2000 W. 93546 256 1880 95	Jul 17		WATER YE a383 961 138 b4020 c43	May	- 2000 1983 1978 27 1987 8 1978
ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC 90 PERC	SEVEN-DA TANEOUS P	Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		402000 1620 212 132	Feb 20		101 5410	Sep 13 Aug 17 1 Aug 17		c43 50 d12600 10.90 277300 788 193 88	Apr Jul Jul	2 1978 25 1998 25 1998

Estimated.

Average discharge for 79 years (water years 1896-1974), 344 ft³/s; 249200 acre-ft/yr, prior to completion of Chatfield Dam.

Charrield Dam.

Maximum daily discharge for period of record, 12000 ${\rm ft}^3/{\rm s}$, Jun 17, 1965.

Minimum daily discharge for period of record, 8.8 ${\rm ft}^3/{\rm s}$, Mar 25, 1951.

Maximum discharge and stage for period of record, 40300 ${\rm ft}^3/{\rm s}$, Jun 17, 1965, gage height, 18.66 ft, from floodmarks, present datum, from rating curve extended above 2700 ${\rm ft}^3/{\rm s}$, on basis of contracted-opening measurement of peak flow.

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 1997 to current year.

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count; M, presence of material verified but not quantified.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
OCT 05	1115	259	569	8.4	12.9	10.0	170	51.0	11.0	48.3	2	3.4
NOV 01	1105	136	919	8.4	10.4	11.1	270	80.7	17.7	85.7	2	6.6
DEC 07	1045	196	823	8.1	5.0	8.4	240	70.6	16.0	76.0	2	5.4
JAN		223	1280			11.7	240	64.6		145	4	
03 FEB	1345			8.3	4.1				18.3		=	5.1
03 MAR	1105	157	832	8.2	6.5	11.3	240	72.0	15.5	75.8	2	5.7
02 APR	1015	170	824	8.2	7.8	9.4	240	69.8	15.6	70.3	2	5.9
05 MAY	0950	287	696	8.3	11.5	8.5	210	63.2	13.5	57.3	2	4.4
02 JUN	1005	607	526	8.2	12.7	8.7	160	45.8	10.4	34.8	1	3.1
05 JUL	1115	364	540	8.5	18.0	9.3	170	50.1	10.8	42.2	1	3.6
05 AUG	0945	273	544	8.3	19.4	8.3	150	44.7	9.86	40.6	1	3.5
01 SEP	1020	159	720	8.3	22.0	8.0	190	54.7	12.7	63.5	2	5.3
05	1040	136	876	8.3	21.2	8.2	240	71.8	15.4	78.3	2	6.3
DATE	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
OCT 05	BONATE WATER DIS IT FIELD MG/L AS HCO3	BONATE WATER DIS IT FIELD MG/L AS CO3	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	DIS- SOLVED (TONS PER AC-FT)	DIS- SOLVED (TONS PER DAY)	GEN, NITRITE DIS- SOLVED (MG/L AS N)
OCT 05 NOV 01	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	DIS- SOLVED (TONS PER AC-FT) (70303)	DIS- SOLVED (TONS PER DAY) (70302)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
OCT 05 NOV 01 DEC 07	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	DIS- SOLVED (TONS PER AC-FT) (70303)	DIS- SOLVED (TONS PER DAY) (70302)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
OCT 05 NOV 01 DEC 07 JAN 03	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 38.8 68.3	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	DIS- SOLVED (TONS PER AC-FT) (70303)	DIS- SOLVED (TONS PER DAY) (70302)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
OCT 05 NOV 01 DEC 07 JAN 03 FEB 03	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 101 142 128	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 123 158 106	DIS- SOLVED (MG/L AS SO4) (00945) 99.2 171 145	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 38.8 68.3	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 10.6 10.7	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 372 597 535	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 348 564 485	DIS- SOLVED (TONS PER AC-FT) (70303) .51 .81	DIS- SOLVED (TONS PER DAY) (70302) 260 219 283	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .038 .151
OCT 05 NOV 01 DEC 07 JAN 03 FEB 03 MAR 02	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 101 142 128 154	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 23 24	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 123 158 106	DIS- SOLVED (MG/L AS SO4) (00945) 99.2 171 145	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 38.8 68.3 77.7	RIDE, DIS- SOLVED (MG/L AS F) (00950) .7 .9 .8	DIS- SOLVED (MG/L AS SIO2) (00955) 10.6 10.7 9.8 7.4	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 372 597 535 381	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 348 564 485 701	DIS- SOLVED (TONS PER AC-FT) (70303) .51 .81 .73	DIS- SOLVED (TONS PER DAY) (70302) 260 219 283 229	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .038 .151 .074 .069
OCT 05 NOV 01 DEC 07 JAN 03 FEB 03 MAR 02 APR 05	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 101 142 128 154 148	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 23 24	LINITY WAT DIS TOT IT FIELD MG/L AS CACC3 (39086) 123 158 106 128 121	DIS- SOLVED (MG/L AS SO4) (00945) 99.2 171 145 123	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 38.8 68.3 77.7 247 69.7	RIDE, DIS- SOLVED (MG/L AS F) (00950) .7 .9 .8	DIS- SOLVED (MG/L AS SIO2) (00955) 10.6 10.7 9.8 7.4 9.0	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 372 597 535 381 534	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 348 564 485 701 499	DIS- SOLVED (TONS PER AC-FT) (70303) .51 .81 .73 .52	DIS- SOLVED (TONS PER DAY) (70302) 260 219 283 229 226	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .038 .151 .074 .069
OCT 05 NOV 01 DEC 07 JAN 03 FEB 03 MAR 02 APR 05 MAY	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 101 142 128 154 148 171	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 23 24	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 123 158 106 128 121 140	DIS- SOLVED (MG/L AS SO4) (00945) 99.2 171 145 123 149	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 38.8 68.3 77.7 247 69.7	RIDE, DIS- SOLVED (MG/L AS F) (00950) .7 .9 .8 .7	DIS- SOLVED (MG/L AS SIO2) (00955) 10.6 10.7 9.8 7.4 9.0 8.1	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 372 597 535 381 534 537	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 348 564 485 701 499	DIS- SOLVED (TONS PER AC-FT) (70303) .51 .81 .73 .52 .73	DIS- SOLVED (TONS PER DAY) (70302) 260 219 283 229 226 246	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .038 .151 .074 .069 .081
OCT 05 NOV 01 DEC 07 JAN 03 FEB 03 MAR 02 APR 05 MAY 02	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 101 142 128 154 148 171 145	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 23 24	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 123 158 106 128 121 140 119	DIS- SOLVED (MG/L AS SO4) (00945) 99.2 171 145 123 149 151	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 38.8 68.3 77.7 247 69.7 65.9	RIDE, DIS- SOLVED (MG/L AS F) (00950) .7 .9 .8 .7 .8	DIS- SOLVED (MG/L AS SIO2) (00955) 10.6 10.7 9.8 7.4 9.0 8.1 5.7	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 372 597 535 381 534 537 428	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 348 564 485 701 499 499	DIS- SOLVED (TONS PER AC-FT) (70303) .51 .81 .73 .52 .73 .73	DIS- SOLVED (TONS PER DAY) (70302) 260 219 283 229 226 246 332	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .038 .151 .074 .069 .081
OCT 05 NOV 01 DEC 07 JAN 03 FEB 03 MAR 02 APR 05 MAY 02 JUN 05	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 101 142 128 154 148 171 145 113	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 23 24	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 123 158 106 128 121 140 119 93	DIS- SOLVED (MG/L AS SO4) (00945) 99.2 171 145 123 149 151 120 71.6	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 38.8 68.3 77.7 247 69.7 65.9 54.7 34.8	RIDE, DIS- SOLVED (MG/L AS F) (00950) .7 .9 .8 .7 .8	DIS- SOLVED (MG/L AS SIO2) (00955) 10.6 10.7 9.8 7.4 9.0 8.1 5.7 4.5	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 372 597 535 381 534 537 428	SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301) 348 564 485 701 499 499 405 267	DIS- SOLVED (TONS PER AC-FT) (70303) .51 .81 .73 .52 .73 .73 .58	DIS- SOLVED (TONS PER DAY) (70302) 260 219 283 229 226 246 332 475	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .038 .151 .074 .069 .081 .087 .046
OCT 05 NOV 01 DEC 07 JAN 03 FEB 03 MAR 02 APR 05 MAY 02 JUN 05	BONATE WATER DIS IT FIELD MG/L AS HC03 (00453) 101 142 128 154 148 171 145 113	BONATE WATER WATER DIS IT FIELD MG/L AS CO3 (00452) 23 24 3	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 123 158 106 128 121 140 119 93 121	DIS- SOLVED (MG/L AS SO4) (00945) 99.2 171 145 123 149 151 120 71.6 88.6	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 38.8 68.3 77.7 247 69.7 65.9 54.7 34.8 36.1	RIDE, DIS- SOLVED (MG/L AS F) (00950) .7 .9 .8 .7 .8 .9 .9	DIS- SOLVED (MG/L AS SIO2) (00955) 10.6 10.7 9.8 7.4 9.0 8.1 5.7 4.5 6.8	RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) 372 597 535 381 534 537 428 290 330	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 348 564 485 701 499 499 405 267 320	DIS- SOLVED (TONS PER AC-FT) (70303) .51 .81 .73 .52 .73 .58 .39 .45	DIS- SOLVED (TONS PER DAY) (70302) 260 219 283 229 226 246 332 475 324	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .038 .151 .074 .069 .081 .087 .046 .014 .036

platte river basin 75

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT												
05	2.60	.063	.38	.57	.45	.278	.215	.211	4.2	.3	30	31
NOV 01	5.94	.150	.49	.99	.64	.667	.595	.532	5.8	.5	30	54
DEC	3.51	.130	. 15	.,,,	.01	.007	. 373	.552	3.0	.5	50	31
07	4.47	.226	.55	.86	.78	.471	.438	.369	5.2	.8	30	64
JAN 03	3.05	.251	.60	1.2	.85	.419	.302	.272	5.9	1.3	20	70
FEB	3.03	.231	.00	1.2	.03	. 117	.502	.2/2	5.5	1.5	20	70
03	6.18	.280	.51	1.2	.79	.558	.442	.348	5.3	.5	40	87
MAR 02	5.82	.243	.71	1.4	.95	.549	.442	.377	5.3	1.0	40	65
APR	3.02	.243	. / ±	1.1	. 23	.545	.112	.377	3.3	1.0	40	03
05	2.98	.099	.26	.81	.36	.344	.195	.217	5.3	1.1	10	62
MAY 02	1.13	.062	.32	.54	.38	.225	.122	.077	4.4	1.2	E10	42
JUN	1.13	.002	. 32	.51	. 50	.223	.122	.077	4.4	1.2	EIO	72
05	1.79	<.020		.55	.38	.236	.183	.166	4.1	.9	E10	12
JUL	0.10	022	.34	.62	.38	222	222	.217	5.2	.6	T10	37
05 AUG	2.12	.033	. 34	.62	. 38	.333	.232	.21/	5.2	. 6	E10	37
01	3.79	.117	.48	.85	.60	.527	.464	.394	7.9	.5	40	80
SEP								===		_		
05	4.87	.093	.67	.93	.76	.663	.556	.510	5.0	.7	30	78

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT						
05	1115	259	12.9	9	6.3	89
NOV 01	1105	136	10.4	4	1.5	85
DEC	1105	130	10.4	-1	1.5	65
07	1045	196	5.0	9	4.8	93
JAN	1245	000	4 1	0.1	1.0	0.0
03 FEB	1345	223	4.1	21	13	98
03	1105	157	6.5	10	4.2	75
MAR						
02 APR	1015	170	7.8	18	8.3	95
05	0950	287	11.5	23	18	96
MAY						
02	1005	607	12.7	53	87	84
JUN 05	1115	364	18.0	11	11	96
JUL	1113	304	10.0	11	11	90
05	0945	273	19.4	20	15	95
AUG	1000	150	22.0	7	2.0	0.0
01 SEP	1020	159	22.0	/	3.0	88
05	1040	136	21.2	17	6.2	95

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

LOCATION.—Lat $39^{\circ}48^{\circ}44^{\circ}$, long $104^{\circ}57^{\circ}28^{\circ}$, in $NW^{1}/_{4}NW^{1}/_{4}$ 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.--Records fair except for estimated daily discharges, which are poor. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		DISCHA	ARGE, CUBI	C FEET PER		MEAN VA	AR OCTOBER LUES	1999 10	SEPTEMBE	SR 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	212 212 207 203 252	e167 e179 e209 e208 e204	9.8 11 32 19 11	e222 e228 e239 e232 e220	205 215 134 47 36	33 33 33 34 37	399 477 488 189 99	107 28 23 22 108	15 20 19 18 20	365 420 296 268 346	85 138 106 85 89	35 13 13 12 12
6 7 8 9 10	161 169 154 170 168	e207 e205 e214 e224 e231	16 13 11 8.3 7.8	e200 e187 e182 e183 e184	34 34 35 33 34	36 36 38 35 34	123 104 113 108 93	110 84 501 189 22	22 15 12 29 78	334 239 249 252 288	95 102 102 46 22	13 11 11 11 11
11 12 13 14 15	171 166 157 226 280	e235 e234 e201 e198 e197	6.6 7.3 9.8 e10 e11	e197 e202 e184 e197 e199	34 33 33 33 33	33 34 35 35 77	74 42 40 37 70	35 20 19 19 22	69 60 31 165 132	426 378 408 413 579	17 24 37 77 33	10 9.3 9.4 11 12
16 17 18 19 20	366 364 e277 e278 e248	e217 e218 e212 e212 209	e11 e11 e11 e11	e204 e202 e202 e207 e216	31 32 34 30 28	244 178 100 63 199	48 34 32 33 33	30 516 772 179 18	201 378 152 131 458	776 2020 367 105 163	65 1260 778 92 21	12 12 13 27 504
21 22 23 24 25	e233 e206 e206 e205 e205	215 e265 28 6.1 7.6	e97 e187 e190 e191 e185	e218 e217 e214 e214 e216	30 35 160 163 34	333 276 260 251 270	31 31 32 26 25	16 16 16 16 29	127 297 358 252 255	205 151 184 150 123	84 149 e142 e145 e175	67 12 126 203 13
26 27 28 29 30 31	e183 e170 e170 e171 e170 e173	10 9.5 10 10 10	e185 e187 e198 e220 e229 e213	e257 e294 e243 e218 e213 e211	33 34 33 33 	198 55 43 125 44 415	24 24 24 61 514	17 15 15 16 18 19	504 394 344 211 205	101 73 49 52 112 87	e416 e204 e424 e330 19	8.3 7.9 7.7 7.6 25
TOTAL MEAN MAX MIN AC-FT	6533 211 366 154 12960	4752.2 158 265 6.1 9430	2320.6 74.9 229 6.6 4600	6602 213 294 182 13100	1683 58.0 215 28 3340	3617 117 415 33 7170	3428 114 514 24 6800	3017 97.3 772 15 5980	4972 166 504 12 9860	9979 322 2020 49 19790	5476 177 1260 17 10860	1239.2 41.3 504 7.6 2460
STATIST	rics of M	MONTHLY ME	EAN DATA F	FOR WATER Y	EARS 1982	- 2000,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	117 1286 1985 10.0 1989	104 927 1985 9.00 1989	72.0 199 1986 8.79 1991	100 235 1984 11.2 1995	70.3 325 1984 8.58 1982	119 305 1984 6.81 1995	321 1335 1984 21.0 1991	749 2675 1987 33.2 1997	585 2560 1995 47.3 1990	475 2130 1995 42.5 1994	397 1410 1984 125 1994	133 755 1984 20.1 1992
SUMMARY	Y STATIST	rics	FOR	1999 CALEN	DAR YEAR	F	OR 2000 WA	TER YEAR		WATER Y	EARS 1982	2 - 2000
LOWEST	MEAN F ANNUAL ANNUAL N	/IEAN		145564.2 399			53619.0 146			280 825 50.5		1983 1994
LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC	TANEOUS I	EAN AY MINIMUN PEAK FLOW PEAK STAGE (AC-FT) EEDS	3	2690 6.1 8.7 288700 1340 181	May 29 Nov 24 Dec 8		2020 6.1 8.7 6590 6.54 106400 296 106	Jul 17 Nov 24 Dec 8 Aug 17 Aug 17		14300 8.09 202500 666 81	Mar Mar Jun	27 1987 14 1995 11 1995 8 1987 8 1987
90 PERO	CENT EXC	EEDS		15			12			9.3		

e Estimated.

394839104570300 SAND CREEK AT MOUTH NEAR COMMERCE CITY, CO

LOCATION.--Lat 39°48'39", long 104°57'03", in $SE^{1}/_{4}NW^{1}/_{4}$ sec.12, T.3 S., R.68 W., Adams County, Hydrologic Unit 10190003, on left bank 800 ft upstream from mouth (revised) and 50 ft upstream (revised) from confluence of Burlington Ditch and Sand Creek, in northeast corner of Metro Wastewater 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. Prior to Mar. 1, 2000, at site 400 ft downstream at different datum. Supplementary recorder on Burlington Ditch return flows, 50 ft downstream from gage.

REMARKS.--Records fair, except for May 17 to June 19 and estimated daily discharges, which are poor. Records include return flows from Burlington 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.

		DISCHAR	GE, CUBIC	FEET PER		NATER YE MEAN VA	AR OCTOBER LUES	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	49 42 45 40 47	22 22 22 22 22 22	18 17 32 32 28	14 14 15 15	15 16 36 17 17	18 26 32 21 18	e149 e138 e150 e49 33	e74 36 35 e80 e104	26 27 47 70 60	83 72 71 70 70	83 49 68 82 83	90 39 28 24 22
6 7 8 9	50 44 36 34 34	21 20 20 20 20 19	22 22 22 20 18	13 13 13 12 13	17 17 17 17 19	18 23 46 23 18	30 50 66 55 47	e76 e76 e132 97 37	40 37 37 56 63	57 52 77 76 83	84 83 82 80 76	21 20 20 21 19
11 12 13 14 15	34 33 33 33 33	19 19 19 19	18 16 17 16 15	13 17 15 16 17	21 21 20 19 21	17 17 17 17 17 34	38 24 21 20 29	36 31 32 30 24	68 72 82 62 69	101 115 113 87 113	77 79 80 87 81	17 17 16 17 15
16 17 18 19 20	52 69 48 33 26	18 18 18 22 23	16 17 16 15 15	18 17 17 18 17	20 22 35 34 28	106 60 51 31 e51	34 e30 21 21 26	25 291 274 69 70	88 134 82 71 76	148 469 91 73 100	190 545 187 55 40	15 15 15 15 127
21 22 23 24 25	24 24 24 24 24	23 60 29 20 19	16 18 17 16 16	18 17 16 16 16	25 24 34 19 17	e81 e56 e36 e28 e23	23 26 36 35 29	87 83 58 e64 238	69 72 70 71 76	110 90 84 81 82	132 e92 21 18 21	35 32 68 109 40
26 27 28 29 30 31	23 22 23 24 23 23	21 18 18 17 17	15 15 15 15 15 14	20 40 31 21 18 16	17 16 17 17 	e21 20 20 37 54 e228	e40 e104 e78 e57 e203	163 107 84 68 68 32	125 104 102 92 91	82 60 72 81 85 85	27 25 24 124 67 67	24 19 17 18 19
TOTAL MEAN MAX MIN AC-FT	1073 34.6 69 22 2130	645 21.5 60 17 1280	564 18.2 32 14 1120	530 17.1 40 12 1050	615 21.2 36 15 1220	1248 40.3 228 17 2480	1662 55.4 203 20 3300	2681 86.5 291 24 5320	2139 71.3 134 26 4240	3033 97.8 469 52 6020	2809 90.6 545 18 5570	954 31.8 127 15 1890
STATIST	CICS OF MO	NTHLY MEA	N DATA FC	R WATER Y	EARS 1992	- 2000,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	40.7 107 1998 17.8 1993	26.6 49.0 1998 16.8 1995	21.2 35.5 1998 13.3 1995	18.2 27.7 1997 12.9 1995	27.1 102 1997 14.6 1995	39.3 124 1997 13.6 1995	60.9 168 1999 25.2 1996	76.4 124 1995 46.1 1993	82.0 137 1995 33.9 1996	118 260 1997 68.0 1994	111 204 1997 53.6 1993	66.6 162 1997 16.9 1992
SUMMARY	STATISTI	CS	FOR 1	.999 CALENI	DAR YEAR	F	OR 2000 WA	TER YEAR		WATER YE	ARS 1992	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN AN N MINIMUM AK FLOW AK STAGE C-FT) DS DS		24089.4 66.0 839 9.6 12 47780 130 33 14	Apr 30 Feb 20 Feb 17		17953 49.1 545 12 13 2060 6.27 35610 91 30 16	Aug 17 Jan 9 Jan 5 Aug 17 Aug 17		58.6 99.9 35.5 1100 4.0 7.2 a5750 b12.12 42460 126 33 14	Jul Jun 2 Jul 2	1997 1993 29 1997 4 1996 28 1996 29 1997 29 1997

Estimated.

From rating curve extended above 500 ft³/s.

Maximum gage height, 13.18 ft, Jul 31, 1999, backwater from construction, site and datum then in use.

06714800 LEAVENWORTH CREEK AT MOUTH NEAR GEORGETOWN, CO

LOCATION.--Lat $39^{\circ}41^{\circ}14^{\circ}$, long $105^{\circ}41^{\circ}59^{\circ}$, 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

DRAINAGE AREA. -- 12.0 mi².

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

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,280 ft 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. Several measurements 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, CUBIO	C FEET PER		WATER YE MEAN VA	AR OCTOBER	R 1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	9.9 9.8 9.5 9.2 9.1	e5.2 e5.0 e5.2 e5.4 e5.0	e3.7 e3.7 e3.7 e3.6 e3.5	e3.6 e3.7 e3.5 e3.6 e4.2	e2.9 e3.2 e3.0 e2.8 e2.7	e2.6 e2.7 e2.7 e2.8 e2.9	e2.9 e2.9 e3.0 e2.9 e3.0	8.0 10 14 17 21	e72 e68 e66 e68 e60	29 28 27 26 25	12 12 12 11 9.6	13 12 11 11 11
6 7 8 9 10	8.7 9.3 10 10 9.5	e4.5 e4.8 e4.7 e4.5 e4.3	e3.8 e3.6 e3.4 e3.3 e3.9	e3.4 e3.7 e4.1 e3.8 e4.0	e2.8 e2.7 e2.7 e2.8 e2.5	e2.9 e2.9 e2.8 e2.7 e2.7	e3.4 e3.1 e2.9 e2.8 e3.5	25 27 23 20 24	53 51 50 47 41	25 24 24 25 24	9.2 8.8 8.4 8.3 8.1	10 10 9.9 9.7 9.0
11 12 13 14 15	8.8 8.2 7.9 7.7 7.5	e4.5 e4.5 e4.0 e4.0 e3.8	e3.7 e3.5 e3.7 e3.6 e4.5	e3.1 e3.1 e3.1 e3.1 e3.1	e2.7 e2.9 e2.7 e2.7 e2.7	e2.7 e2.9 e2.7 e2.8 e2.9	e3.3 e3.4 e3.4 4.0 4.0	28 23 20 19 20	37 34 33 33 31	23 24 22 22 23	7.9 8.0 8.3 8.9 8.2	7.8 7.3 7.2 7.1 6.9
16 17 18 19 20	e8.4 e8.2	e4.4 e4.0	e4.3 e4.2 e4.2 e4.1 e4.0	e3.0 e2.9 e2.8 e2.8 e2.6	e2.7 e2.8 e2.9 e2.7 e2.9	e2.8 e2.9 e2.8 e2.7 e2.8	3.7 4.1 4.7 4.5 4.2	24 23 19 19 20	30 30 27 30 38	27 33 24 21 19	8.1 8.5 11 9.1 8.5	6.8 6.7 6.7 6.6 7.1
21 22 23 24 25	e7.4 e7.2 e6.8 e6.4 e6.2	e3.9 e3.7 e3.4 e4.0 e4.4	e4.0 e3.8 e4.0 e4.1 e4.0	e2.6 e2.7 e2.8 e2.9 e3.0	e2.8 e2.8 e2.8 e2.7 e2.6	e2.7 e2.7 e2.8 e2.9 e2.9	4.6 4.9 4.7 4.4	23 29 37 45 50	28 27 27 26 26	19 18 17 17 16	8.3 8.4 9.3 9.6	8.6 11 7.5 7.6 7.4
26 27 28 29 30 31	e5.8	e4.6 e4.0 e3.8 e3.7 e3.8	e4.1 e4.0 e4.0 e3.9 e3.8 e3.8	e3.2 e3.1 e2.8 e2.6 e2.3 e2.5	e2.7 e2.8 e2.8 e2.8	e2.9 e2.9 e2.9 e3.0 e2.9 e2.8	5.0 6.9 8.5 9.1 8.8	44 41 46 59 67 e80	28 32 31 30 30	16 16 15 14 13	10 9.6 9.2 12 14 14	7.4 7.1 6.8 6.8 6.9
TOTAL MEAN MAX MIN AC-FT	242.1 7.81 10 5.0 480	129.2 4.31 5.4 3.4 256	119.5 3.85 4.5 3.3 237	97.7 3.15 4.2 2.3 194	80.6 2.78 3.2 2.5 160	87.1 2.81 3.0 2.6 173	131.0 4.37 9.1 2.8 260	925.0 29.8 80 8.0 1830	1184 39.5 72 26 2350	668 21.5 33 12 1320	301.3 9.72 14 7.9 598	253.9 8.46 13 6.6 504
STATIST	TICS OF M						BY WATER					
MEAN MAX (WY) MIN (WY)	6.38 7.81 2000 5.11 1997	3.93 4.35 1996 3.28 1995	2.78 3.85 2000 2.08 1995	2.20 3.15 2000 1.62 1995	1.99 2.78 2000 1.35 1995	1.96 2.81 2000 1.42 1995	2.64 4.37 2000 1.61 1995	19.1 29.8 2000 5.10 1995	60.8 80.2 1997 39.5 2000	42.6 81.7 1995 21.5 2000	20.5 36.4 1999 9.72 2000	9.58 14.1 1999 6.28 1996
SUMMARY	STATIST	ICS	FOR 1	1999 CALEN	DAR YEAR	F	OR 2000 W	ATER YEAR		WATER YE	ARS 1995	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT ANNUAL 10 PERC 50 PERC	MEAN TANNUAL ANNUAL M TDAILY M DAILY ME SEVEN-DA TANEOUS P	EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		5994.0 16.4 90 e1.7 e2.0 11890 52 4.5 2.1	Jun 18 Feb 12 Feb 7		4219.4 11.5 e80 e2.3 e2.7 92 4.63 8370 28 6.0 2.8	May 31 Jan 30 Feb 5 May 30 May 30		14.6 17.7 11.5 125 a1.2 1.3 168 b4.79 10560 44 4.5 1.8	Jun Feb Feb Jul Jul	1995 2000 21 1995 12 1995 11 1995 12 1995 12 1995

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

394308105413800 CLEAR CREEK ABOVE GEORGETOWN LAKE NEAR GEORGETOWN, CO

LOCATION.--Lat $39^{\circ}43^{\circ}08^{\circ}$, long $105^{\circ}41^{\circ}38^{\circ}$, 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 Lake, and 1.0 mi north of Georgetown.

DRAINAGE AREA.--80.0 mi²

PERIOD OF RECORD.--July 1997 to September 1999. October 1999 to September 2000 (seasonal records only).

GAGE.--Water-stage recorder. Elevation of gage is 8,460 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 726 ${\rm ft}^3/{\rm s}$, July 28, 1999, gage height, 5.78 ${\rm ft}$; minimum daily, 9.0 ${\rm ft}^3/{\rm s}$ (estimated), Feb. 5, 1999.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 513 ${\rm ft}^3/{\rm s}$ at 2100 hrs May 29, gage height, 5.08 ${\rm ft}$; minimum daily, 19 ${\rm ft}^3/{\rm s}$ (estimated), Apr. 2.

		DISCHARGE	CUBIC	FEET PER		WATER YEA MEAN VAI		1999 TO	SEPTEMBER	2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	58 58	40 34					e20 e19	66 83	378 358	190 187	80 79	81 76
3 4 5	56 54 56	35 37 36					e19 e20 e21	107 129 154	372 380 371	184 171 158	80 79 73	69 63 62
6	57	35					e21	174	366	153	73	64
7	63 61	35 34					e21 e20	184 165	359 352	147 152	68 64	61 58
9 10	62 60	34 32					e22 e28	141 147	340 312	164 163	62 61	60 54
11 12	55 58	33 32					e32 e38	174 156	282 272	152 146	61 59	49 47
13 14 15	60 56 55	31 30 30	 				e41 44 42	137 131 134	255 241 247	139 137 134	59 59 62	46 45 44
16	47	29					37	151	242	148	61	43
17 18 19	46 50 48	31 27 20					40 47 42	152 131 127	224 210 231	200 164 144	64 84 70	42 43 42
20	48	e22					44	129	252	128	63	47
21 22 23	48 48 45	e21 e22 e21		 			47 45 52	132 159 223	215 211 204	119 117 111	62 61 59	62 78 62
24 25	46 43	e21 e20 e21					47 45	283 285	201 202	104 102	59 77	82 53
26 27	44 42	e23 e22		===			49 59	250 218	214 213	96 94	72 69	53 48
28 29	42 43	e22 e23					72 76	250 361	197 192	93 88	64 94	45 46
30 31	40 42	e22 					74 	414 407	188	84 82	80 80	46
TOTAL MEAN	1591 51.3	854 28.5					1185 39.5	5754 186	8081 269	4251 137	2138 69.0	1671 55.7
MAX MIN AC-FT	63 40 3160	40 20 1690		 		 	76 19 2350	414 66 11410	380 188 16030	200 82 8430	94 59 4240	82 42 3310

e Estimated.

394359105411900 CLEAR CREEK BELOW GEORGETOWN LAKE NEAR GEORGETOWN, CO

LOCATION.—-Lat $39^{\circ}43^{\circ}59^{\circ}$, long $105^{\circ}41^{\circ}19^{\circ}$, in $\mathrm{SE}^{1}/_{4}\mathrm{NE}^{1}/_{4}$, sec.5, T.4 S., R.74 W., Clear Creek County, Hydrologic Unit 10190004, on left bank 30 ft upstream from spillway on Georgetown Lake, and 2.0 mi north of Georgetown.

DRAINAGE AREA.--82.4 mi².

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

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

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

		DISCHAR	GE, CUBI	C FEET PER		NATER YEA MEAN VA		1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	51 52 51 50 51	36 e31 30 e30 31	25 26 25 26 25	22 24 23 e23 23	19 18 18 19	18 18 18 20 e20	20 20 19 e20 e20	61 75 99 120 142	346 329 336 343 341	185 183 182 169 155	82 80 79 82 73	80 74 69 64 61
6 7 8 9 10	53 58 55 55 54	31 31 32 32 30	e25 e25 26 24 27	22 22 e22 e22 e22	18 19 19 19	e20 20 e19 19 18	e23 e21 e21 25 28	163 173 160 132 133	334 330 325 316 294	149 144 146 160 161	74 69 66 64 64	65 62 61 60 55
11 12 13 14 15	51 50 52 48 45	31 31 29 30 29	25 25 28 25 e25	22 21 21 21 21	e19 e19 19 20 20	e18 19 18 e19 e19	e27 e28 35 e38 40	163 150 126 121 124	268 260 247 231 234	149 144 137 133 132	64 63 61 61 62	51 50 49 49 48
16 17 18 19 20	41 35 43 41 40	28 30 e24 21 23	25 25 25 24 24	24 22 23 e22 22	19 19 e19 17 18	20 20 20 e19 19	e31 e36 e43 e34 38	139 149 122 116 121	233 214 201 219 243	140 200 165 144 127	64 64 85 70 64	47 47 47 44 49
21 22 23 24 25	40 40 39 40 38	22 23 21 20 e23	23 23 22 23 23	22 23 21 22 22	19 19 19 19 e19	19 19 19 19 20	43 45 46 e45 39	123 147 204 267 270	207 204 198 192 195	119 115 111 104 101	64 61 60 59 74	59 76 61 77 53
26 27 28 29 30 31	39 37 36 37 32 36	e27 27 26 26 27	22 23 23 24 24 25	20 19 17 22 22 23	e19 19 19 19 	20 20 22 21 21 19	e43 55 69 73 76	239 207 230 327 376 372	203 207 191 186 183	97 94 93 88 85 83	71 70 64 92 80 78	51 46 44 43 45
TOTAL MEAN MAX MIN AC-FT	1390 44.8 58 32 2760	832 27.7 36 20 1650	760 24.5 28 22 1510	677 21.8 24 17 1340	547 18.9 20 17 1080	600 19.4 22 18 1190	1101 36.7 76 19 2180	5351 173 376 61 10610	7610 254 346 183 15090	4195 135 200 83 8320	2164 69.8 92 59 4290	1687 56.2 80 43 3350
MEAN MAX (WY) MIN (WY)	38.9 44.8 2000 33.2 1998	26.9 28.2 1999 24.8 1998	21.4 24.5 2000 18.3 1998	17.3 21.8 2000 13.5 1999	15.7 18.9 2000 12.9 1999	- 2000, 16.9 19.4 2000 15.6 1998	26.2 36.7 2000 19.3 1998	125 173 2000 92.6 1999	281 368 1999 220 1998	204 279 1999 135 2000	128 215 1999 69.8 2000	63.3 82.0 1999 56.2 2000
SUMMARY	7 STATISTI	CS	FOR :	1999 CALEN	DAR YEAR	F	OR 2000 WA	TER YEAR		WATER YEA	ARS 1997	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC		AN A		36606.4 100 513 8.2 9.2 72610 307 32 13	Jun 25 Feb 5 Jan 31		26914 73.5 376 17 19 441 4.32 53380 193 40	May 30 Jan 28 Feb 1 May 29 May 29		81.1 99.5 70.4 513 8.2 9.2 604 4.58 58780 231 39 15	Feb Jan 3 Jun 2	1999 1998 1999 5 1999 5 1999 25 1999 25 1999

e Estimated.

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

LOCATION.--Lat $39^{\circ}45^{\circ}07^{\circ}$, long $105^{\circ}39^{\circ}41^{\circ}$, in $\mathrm{NE}^{1}/_{4}\mathrm{NW}^{1}/_{4}$ 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.

		DISCHAR	GE, CUBIC	FEET PER		VATER YE MEAN VA	AR OCTOBER LUES	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	56 56 54 52 52	41 36 37 38 36	e35 e35 e37 e35 e33	e26 e25 e24 e26 e28	e19 e22 e21 e20 e20	e19 e21 e21 e22 e23	e24 e24 e23 e23 e24	67 78 99 119 147	367 347 350 357 352	195 192 192 177 161	75 72 73 76 67	78 73 67 62 57
6 7 8 9 10	53 60 56 57 54	e32 e31 e33 e32 e31	e35 e36 e35 e34 e37	e25 e27 e29 e27 e28	e21 e20 e20 e21 e19	e23 e23 e22 e23 e22	e25 e26 24 28 31	175 188 177 140 133	345 344 339 329 309	152 144 144 166 168	68 64 61 58 58	62 59 57 58 53
11 12 13 14 15	50 47 51 51 48	e31 e30 e29 e28 e31	e38 e36 e37 e33 e37	e24 e23 e23 e23 e22	e20 e22 e20 e19 e18	e22 e24 e23 e24 e24	30 30 37 41 42	176 168 132 122 122	280 269 256 238 243	151 146 131 125 124	57 56 55 56 57	48 46 44 44
16 17 18 19 20	46 38 49 46 45	e32 e31 e30 24 29	e40 e37 e36 e35 e35	e21 e21 e20 e19 e18	e18 e19 e20 e18 e21	e24 e25 e24 e26 e25	36 37 46 43 42	141 164 125 116 119	244 228 210 226 260	136 216 175 146 119	59 58 81 67 59	42 42 42 40 45
21 22 23 24 25	45 44 43 43	28 29 25 e30 e30	e30 e31 e30 e29 e28	e17 e19 e20 e20 e20	e20 e19 e18 e19 e18	e25 e26 e27 e25 e25	46 50 50 49 44	120 146 210 277 285	223 219 214 207 209	110 106 102 95 93	60 58 57 54 69	56 77 62 78 54
26 27 28 29 30 31	42 40 40 43 37 41	29 30 29 28 29	e29 e29 e29 e28 e27 e27	e21 e20 e19 e18 e16 e17	e19 e20 e20 e20 	e26 e26 e26 e26 e25 e25	47 56 71 74 79	256 224 240 335 395 390	218 226 207 198 194	89 86 86 81 78 76	68 68 61 87 78 77	54 47 45 43 45
TOTAL MEAN MAX MIN AC-FT	1480 47.7 60 37 2940	929 31.0 41 24 1840	1033 33.3 40 27 2050	686 22.1 29 16 1360	571 19.7 22 18 1130	742 23.9 27 19 1470	1202 40.1 79 23 2380	5586 180 395 67 11080	8008 267 367 194 15880	4162 134 216 76 8260	2014 65.0 87 54 3990	1624 54.1 78 40 3220
STATIST MEAN MAX (WY) MIN (WY)	41.2 47.7 2000 27.9 1995	27.4 32.1 1999 19.3 1995	N DATA FO 23.2 33.3 2000 15.4 1995	18.6 25.2 1999 12.8 1995	16.5 20.6 1999 11.2 1997	- 2000, 18.5 23.9 2000 11.7 1997	28.8 40.1 2000 20.2 1995	YEAR (WY) 131 189 1996 48.6 1995	376 497 1995 223 1998	274 555 1995 134 2000	135 212 1999 65.0 2000	66.7 87.4 1999 50.2 1996
SUMMARY	STATISTI	CS	FOR 1	.999 CALEN	IDAR YEAR	F	OR 2000 WA	TER YEAR		WATER YEA	ARS 1995	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN AN N MINIMUM AK FLOW AK STAGE C-FT)		37788 104 472 e12 e14 74950 297 41 21	Jun 24 Feb 27 Feb 26		28037 76.6 395 e16 e19 470 5.35 55610 208 43 20	May 30 Jan 30 Jan 26 May 30 May 30		96.7 126 74.5 886 e8.5 9.1 1030 6.63 70030 263 36 16	Mar Mar Jun 1	1995 1998 22 1995 8 1997 3 1997 17 1995 17 1995

e Estimated.

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, 300 ft upstream from mouth, and 1.0 mi east of Berthoud Falls.

DRAINAGE AREA.--2.50 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1997 to September 2000 (seasonal records only, discontinued).

GAGE.--Water-stage recorder. 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 PERIOD OF RECORD (seasonal only).--Maximum daily discharge, 61 ft³/s, June 22, 1997 during period of estimated record. Maximum recorded discharge, 73 ft³/s, June 27, 1997, gage height, 1.52 ft; minimum daily, 0.40 ft³/s (estimated), Apr. 17, 1999.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 23 ${\rm ft}^3/{\rm s}$ at 1645 June 1, gage height, 1.74 ${\rm ft}$; minimum daily discharge, 0.70 ${\rm ft}^3/{\rm s}$, Apr. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		DIBCIDA	OL, CODIC			MEAN VA		10000		2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							e.72	2.5	20	5.5	2.0	1.5
2							e.72	2.5	20	5.4	1.9	1.4
3							e.72	3.5	20	5.2	2.0	1.4
4							e.74	5.5	19	5.0	1.9	1.3
5							e.76	7.3	19	4.8	1.8	1.5
3							C.70			1.0		1.5
6							e.80	8.8	18	4.4	1.7	1.4
7							.70	10	18	4.2	1.7	1.3
8							.87	10	17	4.2	1.8	1.4
9							1.0	9.5	16	4.3	1.7	1.3
10							1.1	9.5	15	4.0	1.6	1.2
11							1.0	9.9	14	3.8	1.7	1.2
12							1.1	9.0	13	3.7	1.6	1.2
13							1.3	8.4	13	3.6	1.6	1.2
14							1.5	8.6	12	3.4	1.6	1.3
15							1.4	8.4	11	3.7	1.6	1.3
16							1.4	9.0	9.8	3.8	1.6	1.2
17							1.6	8.9	9.1	3.7	1.9	1.1
18							1.7	8.5	8.7	3.2	1.8	1.2
19							1.7	8.5	8.8	3.0	1.6	1.1
20							1.5	8.0	8.9	2.9	1.5	1.4
21							1.8	7.8	7.4	2.8	1.5	2.1
22							2.1	8.6	7.1	2.7	1.4	1.7
23							2.0	11	6.8	2.6	1.4	1.3
24							1.8	14	6.5	2.6	1.4	1.8
25							2.5	16	6.4	2.5	1.4	1.5
23							2.5	10	0.4	2.5	1.1	1.5
26							2.1	16	7.8	2.5	1.6	1.3
27							2.5	15	6.8	2.5	1.4	1.3
28							3.1	16	6.0	2.3	2.3	1.2
29							3.5	17	5.7	2.2	3.0	1.2
30							2.7	19	5.6	2.2	1.6	1.2
31								19		2.0	1.5	
TOTAL							46.43	315.7	356.4	108.7	53.1	40.5
MEAN							1.55	10.2	11.9	3.51	1.71	1.35
MAX							3.5	19	20	5.5	3.0	2.1
MIN							.70	2.5	5.6	2.0	1.4	1.1
AC-FT							92	626	707	216	105	80

e Estimated.

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

WATER-QUALITY RECORDS

 ${\tt PERIOD~OF~RECORD.--April~1997~to~current~year~(seasonal~records~only)~(discontinued).}$

PERIOD OF DAILY RECORD (seasonal only).-SPECIFIC CONDUCTANCE: May 1997 to current year (discontinued). WATER TEMPERATURE: May 1997 to current year (discontinued).

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

REMARKS.--Water temperature is rated good except for Apr. 6 to May 5, which is rated fair. Specific conductance is rated good except for Apr. 6 to June 2, and Sept. 8-30, which is rated poor.

EXTREMES FOR PERIOD OF DAILY RECORD (seasonal only).-SPECIFIC CONDUCTANCE: Maximum, 1240 microsiemens, June 29, 2000; minimum, 23 microsiemens, June 20, 22, 1997.
WATER TEMPERATURE: Maximum 11.8°C, Aug. 13, 2000; minimum, 0.0°C, many days during winter months.

EXTREMES FOR CURRENT YEAR (seasonal only).-SPECIFIC CONDUCTANCE: Maximum, 1240 microsiemens, June 29; minimum, 41 micorsiemens May 31.
WATER TEMPERATURE: Maximum, 11.8°C, Aug. 13; minimum, 0.0°C, May 1, 12, 13, Sept. 23-25, and many days in Apr.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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

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

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

	PECIFIC	CONDUCTA	•		CM AI 23		, WAIER IEA			IO SEPIEMI		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
		FEBRUARI			MARCH			APKIL			MAI	
1										300	255	268
2										269	220	252
3 4										241 221	206 203	227 211
5										203	163	186
6 7							708	267	331	176 157	148 142	164 151
8							294	267 247	272	181	142	151
9							296	261	276	238	155	179
10							691	285	325	167	144	158
11							439	295	321	150	133	143
12							315	293	302	142	115	131
13							314	295	304	141	106	123
14							311	294	305	139	133	137
15							405	297	334	138	128	134
16							603	250	340	134	113	125
17							330	289	312	150	116	123
18							324 359	304	316 326	218	135 138	169 161
19 20							529	317 315	341	195 156	143	148
							323		311	130	110	110
21							327	299	314	143	131	138
22 23							314 574	291 299	307 407	134 119	111 83	126 104
24							439	352	386	112	87	94
25							410	334	358	97	83	92
26 27							346 316	302 267	322 293	99 93	84 82	88 87
28							294	265	281	87	66	79
29							277	255	266	75	61	69
30							287	254	273	68	57	63
31										59	41	49
MONTH							708	247	317	300	41	140
DAY	MAX	MTN	MEAN	MAX	MTN	MEAN	MAX	MTN	MEAN	MAX	MTN	MEAN
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN		MIN AUGUST	MEAN	MAX	MIN SEPTEMBE	
		JUNE			JULY		Ī	AUGUST			SEPTEMBE	IR.
1 2	59 58	JUNE 44 44	49 51	63 63	JULY 62 62	63 62	81 127	AUGUST 75 75	77 80	330 109	SEPTEMBE 103 102	119 106
1 2 3	59 58 52	JUNE 44 44 48	49 51 50	63 63 64	JULY 62 62 62	63 62 63	81 127 244	75 75 77	77 80 87	330 109 105	SEPTEMBE 103 102 99	119 106 103
1 2 3 4	59 58 52 51	JUNE 44 44 48 45	49 51 50 49	63 63 64 64	JULY 62 62 62 62 62	63 62 63 63	81 127 244 137	75 75 77 77	77 80 87 83	330 109 105 105	103 102 99 100	119 106 103 103
1 2 3	59 58 52	JUNE 44 44 48	49 51 50	63 63 64	JULY 62 62 62	63 62 63	81 127 244	75 75 77	77 80 87	330 109 105	SEPTEMBE 103 102 99	119 106 103
1 2 3 4 5	59 58 52 51 48	JUNE 44 44 48 45 44	49 51 50 49 47	63 63 64 64 66	JULY 62 62 62 62 62 63	63 62 63 63 64 76	81 127 244 137 84	75 75 77 77 77 79	77 80 87 83 81	330 109 105 105 143	103 102 99 100 99	119 106 103 103 105
1 2 3 4 5	59 58 52 51 48 47 46	JUNE 44 44 48 45 44 44 42	49 51 50 49 47 46 45	63 63 64 64 66 437 998	JULY 62 62 62 62 63 64 65	63 62 63 63 64 76 85	81 127 244 137 84 82 135	75 75 77 77 77 79 79	77 80 87 83 81	330 109 105 105 143 181 108	103 102 99 100 99 99	119 106 103 103 105 108 101
1 2 3 4 5 6 7 8	59 58 52 51 48 47 46 57	JUNE 44 44 48 45 44 44 42 43	49 51 50 49 47 46 45 45	63 63 64 64 66 437 998 989	JULY 62 62 62 62 63 64 65 67	63 62 63 63 64 76 85 85	81 127 244 137 84 82 135 160	75 75 77 77 77 79 79 79	77 80 87 83 81 81 85	330 109 105 105 143 181 108	SEPTEMBE 103 102 99 100 99 99 97	119 106 103 103 105 108 101
1 2 3 4 5	59 58 52 51 48 47 46	JUNE 44 44 48 45 44 44 42	49 51 50 49 47 46 45	63 63 64 64 66 437 998	JULY 62 62 62 62 63 64 65	63 62 63 63 64 76 85	81 127 244 137 84 82 135	75 75 77 77 77 79 79	77 80 87 83 81	330 109 105 105 143 181 108	103 102 99 100 99 99	119 106 103 103 105 108 101
1 2 3 4 5 6 7 8 9	59 58 52 51 48 47 46 57 48	JUNE 44 44 45 44 44 42 43 43 43	49 51 50 49 47 46 45 45 44 44	63 63 64 64 66 437 998 989 142 670	JULY 62 62 62 62 63 64 65 67 66 68	63 62 63 63 64 76 85 85 85 81	81 127 244 137 84 82 135 160 115 153	75 75 77 77 77 79 79 79 80 81 83	77 80 87 83 81 81 85 89	330 109 105 105 143 181 108 111 156	103 102 99 100 99 99 99 99 97 98 99 99	119 106 103 103 105 108 101 100 102 99
1 2 3 4 5 6 7 8 9 10	59 58 52 51 48 47 46 57 48 45	JUNE 44 48 45 44 44 42 43 43 43	49 51 50 49 47 46 45 44 44	63 63 64 64 66 437 998 989 142 670	JULY 62 62 62 62 63 64 65 67 66 68	63 62 63 63 64 76 85 85 70 81	81 127 244 137 84 82 135 160 115 153	75 75 77 77 79 79 79 80 81 83	77 80 87 83 81 81 85 89 86 89	330 109 105 105 143 181 108 111 156 100	103 102 99 100 99 99 99 97 98 99 99	119 106 103 103 105 108 101 100 102 99
1 2 3 4 5 6 7 8 9 10	59 58 52 51 48 47 46 57 48 45	JUNE 44 44 45 44 44 42 43 43 43	49 51 50 49 47 46 45 45 44 44 44	63 63 64 64 66 437 998 989 142 670	JULY 62 62 62 62 63 64 65 67 66 68	63 62 63 63 64 76 85 85 70 81	81 127 244 137 84 82 135 160 115 153	75 75 77 77 77 79 79 80 81 83	77 80 87 83 81 81 85 89	330 109 105 105 143 181 108 111 156 100	103 102 99 100 99 97 98 99 99 99	119 106 103 103 105 108 101 100 102 99
1 2 3 4 5 6 7 8 9 10 11 12 13 14	59 58 52 51 48 47 46 57 48 45 46 47 54 50	JUNE 44 44 45 44 42 43 43 43 43 44 44 47	49 51 50 49 47 46 45 45 44 44 45 48 49	63 63 64 64 66 437 998 989 142 670 527 79 80 74	JULY 62 62 62 62 63 64 65 67 66 68 69 68 69 70	63 62 63 63 64 76 85 85 70 81 81 70 71 72	81 127 244 137 84 82 135 160 115 153 220 106 88 91	75 75 77 77 77 79 79 79 80 81 83 84 87 86 86	77 80 87 83 81 81 85 89 86 89 93 89 87 87	330 109 105 105 143 181 108 111 156 100 144 479 473 347	SEPTEMBE 103 102 99 100 99 99 97 98 99 99 98 98 98 107 104	119 106 103 103 105 108 101 100 102 99 102 131 125
1 2 3 4 5 6 7 8 9 10	59 58 52 51 48 47 46 57 48 45 45	JUNE 44 44 48 45 44 44 42 43 43 43 43 43	49 51 50 49 47 46 45 44 44 44 45 44	63 63 64 64 66 437 998 989 142 670 527 79 80	JULY 62 62 62 62 63 64 65 67 66 68 69 68	63 62 63 63 64 76 85 85 70 81	81 127 244 137 84 82 135 160 115 153 220 106 88	75 75 77 77 77 79 79 80 81 83 84 87 86	77 80 87 83 81 81 85 89 86 89	330 109 105 105 143 181 108 111 156 100 144 479 473	103 102 99 100 99 97 98 99 99 99 99	119 106 103 103 105 108 101 100 102 99
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	59 58 52 51 48 47 46 57 48 45 46 57 54 50 51	JUNE 44 44 48 45 44 42 43 43 43 43 43 44 47 48	49 51 50 49 47 46 45 44 44 44 45 48 49 50	63 63 64 64 66 437 998 989 142 670 527 79 80 74	JULY 62 62 62 62 63 64 65 67 66 68 69 70 70	63 62 63 63 64 76 85 85 70 81 81 70 71 72 76	81 127 244 137 84 82 135 160 115 153 220 106 88 91 139	75 75 77 77 77 79 79 79 80 81 83 84 87 86 86 87	777 80 87 83 81 81 85 86 89 86 89 93 87 87 92	330 109 105 105 143 181 108 111 156 100 144 479 473 347 334	SEPTEMBE 103 102 99 100 99 99 97 98 99 99 99 100 100 100 100 100 1	119 106 103 103 105 108 101 100 102 99 102 131 125 125 114
1 2 3 4 5 6 7 8 9 10 11 12 13 14	59 58 52 51 48 47 46 57 48 45 46 47 54 50	JUNE 44 44 45 44 42 43 43 43 43 44 44 47	49 51 50 49 47 46 45 45 44 44 45 48 49	63 63 64 64 66 437 998 989 142 670 527 79 80 74	JULY 62 62 62 62 63 64 65 67 66 68 69 68 69 70	63 62 63 63 64 76 85 85 70 81 81 70 71 72	81 127 244 137 84 82 135 160 115 153 220 106 88 91	75 75 77 77 77 79 79 79 80 81 83 84 87 86 86	77 80 87 83 81 81 85 89 86 89 93 89 87 87	330 109 105 105 143 181 108 111 156 100 144 479 473 347	SEPTEMBE 103 102 99 100 99 99 97 98 99 99 98 98 98 107 104	119 106 103 103 105 108 101 100 102 99 102 131 125
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	59 58 52 51 48 47 46 57 48 45 54 50 51 52 84 59	JUNE 44 44 48 45 44 42 43 43 43 43 44 47 48 49 50 52 52	49 51 50 49 47 46 45 44 44 45 48 49 50 51 53	63 63 64 64 66 437 998 989 142 670 527 79 80 74 159	JULY 62 62 62 63 64 65 67 66 68 69 70 70 71 74 74	63 62 63 63 64 76 85 85 70 81 71 72 76	81 127 244 137 84 82 135 160 115 153 220 106 88 91 139	75 75 77 77 77 79 79 79 80 81 83 84 87 86 86 87	777 807 83 81 81 85 86 89 93 87 87 92 89 92 93	330 109 105 105 143 181 108 111 156 100 144 479 473 347 334 556 113 240	SEPTEMBE 103 102 99 100 99 100 99 99 97 98 99 99 107 104 103 102 101 100	119 106 103 103 105 108 101 100 102 99 102 131 125 125 114 118 103 115
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	59 58 52 51 48 47 46 57 48 45 45 47 54 50 51 52 84 59 82	JUNE 44 44 48 45 44 42 43 43 43 43 44 47 48 49 50 52 52 53	49 51 50 49 47 46 45 44 44 45 48 49 50 51 54 53 58	63 63 64 64 66 437 998 989 142 670 527 79 80 74 159	JULY 62 62 62 62 63 64 65 67 66 68 69 70 70 71 74 74 73	63 62 63 64 76 85 85 70 81 81 71 72 76 75 80 75 83	81 127 244 137 84 82 135 160 115 153 220 106 88 91 139	75 75 77 77 77 79 79 80 81 83 84 87 86 86 87 87 85 85	77 80 87 83 81 81 85 89 86 89 87 92 89 92 93	330 109 105 105 143 181 108 111 156 100 144 479 473 347 334 556 113 240 368	SEPTEMBE 103 1002 99 100 99 97 98 99 98 98 107 104 103 102 101 1000 102	119 106 103 103 105 108 101 100 102 99 102 131 125 125 114 118 103 115 120
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	59 58 52 51 48 47 46 57 48 45 54 50 51 52 84 59	JUNE 44 44 48 45 44 42 43 43 43 43 44 47 48 49 50 52 52	49 51 50 49 47 46 45 44 44 45 48 49 50 51 53	63 63 64 64 66 437 998 989 142 670 527 79 80 74 159	JULY 62 62 62 63 64 65 67 66 68 69 70 70 71 74 74	63 62 63 63 64 76 85 85 70 81 71 72 76	81 127 244 137 84 82 135 160 115 153 220 106 88 91 139	75 75 77 77 77 79 79 79 80 81 83 84 87 86 86 87	777 807 83 81 81 85 86 89 93 87 87 92 89 92 93	330 109 105 105 143 181 108 111 156 100 144 479 473 347 334 556 113 240	SEPTEMBE 103 102 99 100 99 100 99 99 97 98 99 99 107 104 103 102 101 100	119 106 103 103 105 108 101 100 102 99 102 131 125 125 114 118 103 115
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	59 58 52 51 48 47 46 57 48 45 45 47 54 50 51 52 84 59 77 56	JUNE 44 44 48 45 44 42 43 43 43 43 44 47 48 49 50 52 52 52 53 56 55	49 51 50 49 47 46 45 44 44 45 48 49 50 51 53 60 56	63 63 64 64 66 437 998 989 142 670 527 79 80 74 159 106 154 84 203 180	JULY 62 62 62 62 63 63 64 65 67 66 68 69 70 70 71 74 74 74 75	63 62 63 64 76 85 85 70 81 81 71 72 76 75 80 75 83 82	81 127 244 137 84 82 135 160 115 153 220 106 88 91 139 123 146 132 102 93	75 75 77 77 77 79 79 80 81 83 84 87 86 86 86 87 87 85 85 89 90	77 80 87 83 81 81 85 89 86 89 93 87 92 89 92 93 93 91	330 109 105 105 143 181 108 111 156 100 144 479 473 347 334 556 113 240 368 150	SEPTEMBE 103 1002 99 100 99 97 98 99 98 98 107 104 103 102 104 102	119 106 103 103 105 108 101 100 102 99 102 131 125 125 114 118 103 115 120 116
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	59 58 52 51 48 47 46 57 48 45 46 47 54 50 51 52 84 59 82 77	JUNE 44 44 48 45 44 42 43 43 43 43 43 44 47 48 49 50 52 52 52 53 56 55	49 51 50 49 47 46 45 44 44 45 44 45 50 51 53 58 60 59	63 63 64 64 66 437 998 989 142 670 527 79 80 74 159 106 154 84 203 180	JULY 62 62 62 63 64 65 67 66 68 69 70 70 71 74 74 73 74 75 74	63 62 63 63 64 76 85 85 70 81 71 72 76 75 83 82	81 127 244 137 84 82 135 160 115 153 220 106 88 91 139 123 146 132 102 93	75 75 77 77 79 79 80 81 83 84 87 86 86 87 87 85 91 90 90	777 80 87 83 81 81 85 89 86 89 87 87 87 92 93 93 93 91	330 109 105 105 143 181 108 111 156 100 144 479 473 347 334 556 113 240 368 150	SEPTEMBE 103 102 99 100 99 100 99 97 98 99 98 98 107 104 103 102 101 100 102 104	119 106 103 103 105 108 100 102 99 102 125 125 114 118 103 115 120 116
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	59 58 52 51 48 47 46 57 48 45 54 50 51 52 82 77 58 88 523	JUNE 44 44 48 45 44 42 43 43 43 43 44 47 48 49 50 52 52 53 56	49 51 50 49 47 46 45 44 44 45 48 49 50 51 54 53 58 60 59 95	63 63 64 64 66 437 998 989 142 670 527 79 80 74 159 106 154 84 203 180 87 114 75	JULY 62 62 62 63 64 65 67 66 68 69 70 70 71 74 73 74 75 74	63 62 63 63 64 76 85 85 70 81 71 72 76 75 83 82 77	81 127 244 137 84 82 135 160 115 153 220 106 88 91 139 123 146 132 102 93	75 75 77 77 77 79 79 79 80 81 83 84 87 86 86 87 87 85 90 90	777 807 837 833 81 81 859 866 89 93 87 87 92 89 93 93 93 93 93 91	330 109 105 105 143 181 108 111 156 100 144 479 473 347 334 556 113 240 368 150	SEPTEMBE 103 102 99 100 99 100 99 99 97 98 98 98 107 104 103 102 101 100 102 104	119 106 103 103 105 108 101 100 102 99 102 131 125 125 114 118 103 115 120 116 117 116 119
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	59 58 52 51 48 47 46 57 48 45 47 54 51 52 84 59 82 77 56 88 82 53 63	JUNE 44 44 48 45 44 44 42 43 43 43 43 43 44 47 48 49 50 52 52 53 56 55 56 55 56 58	49 51 50 49 47 46 45 44 44 45 48 49 50 51 53 60 59 59 59	63 63 64 64 66 437 998 989 142 670 527 79 80 74 159 106 154 84 203 180 87 114 75 87	JULY 62 62 62 63 64 65 67 66 68 69 70 71 74 74 73 74 75 74 73	63 62 63 64 76 85 70 81 81 71 72 76 75 80 75 83 82	81 127 244 137 84 82 135 160 115 153 220 106 88 91 139 123 146 132 102 93	75 75 77 77 77 79 79 80 81 83 84 87 86 86 86 87 87 85 89 90 90 90 90	77 80 87 83 81 81 85 89 86 89 93 87 87 87 87 92 93 93 91 91 92 91 93	330 109 105 105 143 181 108 111 156 100 144 479 473 347 334 556 113 240 368 150 175 140 121 337	SEPTEMBE 103 1002 99 100 99 99 97 98 99 98 98 107 104 103 102 101 100 102 110 115 112	119 106 103 103 105 108 101 100 102 99 102 131 125 125 114 118 103 115 120 116
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	59 58 52 51 48 47 46 57 48 45 45 47 54 50 51 52 84 59 82 77 56 88 82 77 56 82 83 66	JUNE 44 44 48 45 44 42 43 43 43 43 44 47 48 49 50 52 53 56 55 56 58 57	49 51 50 49 47 46 45 444 445 48 49 50 51 544 53 60 569 595 58	63 63 64 64 66 437 998 989 142 670 527 79 80 74 159 106 154 84 203 180 87 114 75 87	JULY 62 62 62 63 64 65 67 66 68 69 70 71 74 74 73 74 75 74 73 74	63 62 63 64 76 85 85 70 81 81 71 72 76 75 80 75 83 82 77 76 83	81 127 244 137 84 82 135 160 115 153 220 106 88 91 139 123 146 132 102 93 92 104 108 96	75 75 77 77 77 79 80 81 83 84 87 86 86 87 87 85 85 90 90 90	77 80 87 83 81 81 85 89 86 89 87 92 89 92 93 93 91 91 93 93 93	330 109 105 105 143 181 108 111 156 100 144 479 473 347 334 556 113 240 368 150 175 140 121 337 208	SEPTEMBE 103 102 99 100 99 100 99 99 97 98 98 98 107 104 103 102 101 100 102 111 111 112 118	119 106 103 103 105 108 101 100 102 99 102 131 125 125 114 118 103 115 120 116 117 119 189 150
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	59 58 52 51 48 47 46 57 48 45 47 54 51 52 84 59 82 77 56 88 52 36 66	JUNE 44 44 48 45 44 44 42 43 43 43 43 44 47 48 49 50 52 52 53 56 55 56 57 57	49 51 50 49 47 46 45 444 45 48 49 50 51 543 58 60 59 95 58 71	63 63 64 64 66 437 998 989 142 670 527 79 80 74 159 106 154 84 203 180 87 114 75 87 137	JULY 62 62 62 62 63 64 65 67 66 68 69 70 71 74 74 73 74 75 74 77 75	63 62 63 64 76 85 85 70 81 81 71 72 76 75 80 75 83 82 77 76 83	81 127 244 137 84 82 135 160 115 153 220 106 88 91 139 123 146 132 102 93 92 104 96 108	75 75 77 77 79 79 79 80 81 83 84 87 86 86 87 87 85 91 90 90 90 90 91 91	77 80 87 83 81 81 85 89 86 89 87 87 87 92 93 93 91 91 92 91 93 93	330 109 105 105 143 181 108 111 156 100 144 479 473 347 334 556 113 240 368 150 175 140 121 337 208	SEPTEMBE 103 1002 99 100 99 99 97 98 99 98 98 107 104 103 102 101 100 102 115 118	119 106 103 103 105 108 101 100 102 99 102 131 125 125 114 118 103 115 120 116 117 116 119 119 129
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	59 58 52 51 48 47 46 57 48 45 46 47 54 50 51 52 84 59 82 82 77 56 88 52 63 63 64 64 77 78 78 78 78 78 78 78 78 78 78 78 78	JUNE 44 44 48 45 44 42 43 43 43 43 44 47 48 49 50 52 53 56 55 56 55 56 58 57	49 51 50 49 47 46 45 44 45 44 45 50 51 53 58 60 56 59 95 59 58 71 63	63 63 64 64 66 437 989 989 142 670 527 79 80 74 159 106 154 84 203 180 87 114 75 87 137	JULY 62 62 62 63 64 65 67 66 68 69 70 70 71 74 73 74 75 74 75 75	63 62 63 63 64 76 85 85 70 81 71 72 76 75 83 82 77 76 74 83	81 127 244 137 84 82 135 160 115 153 220 106 88 91 139 123 146 132 102 93 93 94 104 96 108 96	75 75 77 77 79 79 80 81 83 84 87 86 86 87 87 85 91 90 90 90 91 91	777 80 87 83 81 81 85 86 89 93 87 87 92 93 93 91 91 92 91 93 93	330 109 105 105 143 181 108 111 156 100 144 479 473 347 334 556 113 240 368 150 175 140 121 337 208	SEPTEMBE 103 100 99 100 99 100 99 97 98 99 98 107 104 103 102 101 100 102 115 112 118 124 121	119 106 103 103 105 108 100 102 99 102 125 125 125 114 118 103 115 120 116 119 189 159
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	59 58 52 51 48 47 46 57 48 45 47 54 51 52 84 59 82 77 56 88 52 36 66	JUNE 44 44 48 45 44 44 42 43 43 43 43 44 47 48 49 50 52 52 53 56 55 56 57 57	49 51 50 49 47 46 45 444 45 48 49 50 51 543 58 60 59 95 58 71	63 63 64 64 66 437 998 989 142 670 527 79 80 74 159 106 154 84 203 180 87 114 75 87 137	JULY 62 62 62 63 64 65 67 66 68 69 70 71 74 74 73 74 75 75 75 75 75	63 62 63 64 76 85 85 70 81 71 72 76 75 83 82 77 76 83 77 80 74 83 77	81 127 244 137 84 82 135 160 115 153 220 106 88 91 139 123 146 132 102 93 92 104 96 108	75 75 77 77 79 79 79 80 81 83 84 87 86 86 87 87 85 91 90 90 90 91 91 89 94 87 89	77 80 87 83 81 81 85 89 86 89 87 87 87 92 93 93 91 91 92 91 93 93	330 109 105 105 143 181 108 111 156 100 144 479 473 347 334 556 113 240 368 150 175 140 121 337 208	SEPTEMBE 103 1002 99 100 99 99 97 98 99 98 98 107 104 103 102 101 100 102 115 118	119 106 103 103 105 108 101 100 102 99 102 131 125 125 114 118 103 115 120 116 117 116 119 119 129
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 30 30 30 30 30 30 30 30 30 30 30 30	59 58 52 51 48 47 46 57 48 45 45 50 51 52 84 59 82 77 56 88 523 63 66 197 88 79 1240 70	JUNE 44 44 48 45 44 42 43 43 43 43 44 47 48 49 50 52 53 56 55 56 58 57 67 60 69 60 63	49 51 50 49 47 46 45 44 45 44 45 50 51 53 58 60 56 59 95 58 71 63 62 115 65	63 63 64 64 66 437 998 989 142 670 527 79 80 74 159 106 154 84 203 180 87 114 75 87 137	JULY 62 62 62 63 64 65 67 66 68 69 70 71 74 73 74 75 74 75 76 75 76	63 62 63 63 64 76 85 85 70 81 71 72 76 75 83 82 77 76 83 82 77 76 83 87 77	81 127 244 137 84 82 135 160 115 153 220 106 88 91 139 123 146 132 102 93 92 104 96 108 96 145 97 264 129 131	75 75 77 77 79 79 80 81 83 84 87 86 86 87 87 85 91 90 90 91 89 90 91 89 94 87	777 80 87 83 81 81 85 86 89 86 89 87 87 92 93 93 91 91 92 91 93 93 93 91	330 109 105 105 143 181 108 111 156 100 144 479 473 347 334 556 113 240 368 150 175 140 121 337 208	SEPTEMBE 103 100 99 100 99 100 99 97 98 99 98 107 104 103 102 101 100 102 115 112 118 124 121 115 114 106	119 106 103 103 105 108 100 102 99 102 131 125 125 114 118 103 115 120 116 119 189 150 124 121 120 112
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 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	59 58 52 51 48 47 46 57 48 45 47 54 50 51 52 84 59 82 77 56 88 523 66 197 89 1240	JUNE 44 44 48 45 44 44 42 43 43 43 43 43 44 47 48 49 50 52 52 53 56 55 56 57 57 60 59 60	49 51 50 49 47 46 45 444 45 48 49 50 51 544 53 58 60 59 95 58 71 63 62 115	63 63 64 64 66 437 998 989 142 670 527 79 80 74 159 106 154 84 203 180 87 114 75 87 137	JULY 62 62 62 63 64 65 67 66 68 69 70 71 74 74 73 74 75 75 75 75 75	63 62 63 64 76 85 85 70 81 71 72 76 75 83 82 77 76 83 77 80 74 83 77	81 127 244 137 84 82 135 160 115 153 220 106 88 91 139 123 146 132 102 93 92 104 96 108 96	75 75 77 77 79 79 79 80 81 83 84 87 86 86 87 87 85 91 90 90 90 91 91 89 94 87 89	777 80 877 83 811 81 85 89 86 89 87 87 87 92 93 93 91 91 92 91 93 93 93 93	330 109 105 105 143 181 108 111 156 100 144 479 473 347 334 556 113 240 368 150 175 140 121 337 208	SEPTEMBE 103 1002 99 100 99 99 97 98 99 98 98 107 104 103 102 101 100 102 111 111 112 118 124 121 115 114	119 106 103 103 105 108 101 100 102 99 102 131 125 125 125 124 116 117 116 119 189 150
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 30 30 30 30 30 30 30 30 30 30 30 30	59 58 52 51 48 47 46 57 48 45 45 50 51 52 84 59 82 77 56 88 523 63 66 197 88 79 1240 70	JUNE 44 44 44 44 42 43 43 43 44 47 48 49 50 52 53 56 55 56 58 57 60 69 60 63	49 51 50 49 47 46 45 44 45 44 45 50 51 53 58 60 56 59 95 58 71 63 62 115 65	63 63 64 64 66 437 998 989 142 670 527 79 80 74 159 106 154 84 203 180 87 114 75 87 137	JULY 62 62 62 63 64 65 67 66 68 69 70 71 74 73 74 75 74 75 76 75 76	63 62 63 63 64 76 85 85 70 81 71 72 76 75 83 82 77 76 83 82 77 76 83 87 77	81 127 244 137 84 82 135 160 115 153 220 106 88 91 139 123 146 132 102 93 92 104 96 108 96 145 97 264 129 131	75 75 77 77 79 79 80 81 83 84 87 86 86 87 87 85 91 90 90 91 89 90 91 89 94 87	777 80 87 83 81 81 85 86 89 86 89 87 87 92 93 93 91 91 92 91 93 93 93 91	330 109 105 105 143 181 108 111 156 100 144 479 473 347 334 556 113 240 368 150 175 140 121 337 208	SEPTEMBE 103 100 99 100 99 100 99 97 98 99 98 107 104 103 102 101 100 102 115 112 118 124 121 115 114 106	119 106 103 103 105 108 100 102 99 102 131 125 125 114 118 103 115 120 116 119 189 150 124 121 120 112
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 31	59 58 52 51 48 47 46 57 48 45 45 51 52 84 59 82 77 56 88 523 63 66 197 88 79 1240 70 70	JUNE 44 44 48 45 44 42 43 43 43 44 47 48 49 50 52 52 53 56 55 56 57 60 59 60 63	49 51 50 49 47 46 45 444 45 48 49 50 51 53 58 60 56 59 95 59 58 71 63 61 61 65 65 65 65 65 65 65 66 66 66 67 67 67 67 67 67 67 67 67 67	63 63 64 64 66 66 437 998 989 142 670 527 79 80 74 159 106 154 84 203 180 87 114 75 87 137	JULY 62 62 62 63 64 65 67 66 68 69 70 71 74 74 74 73 74 75 76 75 76 76	63 62 63 64 76 85 85 70 81 71 72 76 75 83 82 77 76 83 77 76 77 77	81 127 244 137 84 82 135 160 115 153 220 106 88 91 139 123 146 132 102 93 94 108 96 108 96	75 75 77 77 79 79 80 81 83 84 87 86 86 87 87 85 85 91 90 90 90 91 91 89 94 87 89 105	777 80 877 83 811 81 85 89 86 89 87 87 87 87 92 93 93 91 91 92 91 93 93 93 93 91	330 109 105 105 143 181 108 111 156 100 144 479 473 347 334 556 113 240 368 150 175 140 121 208 137 208	SEPTEMBE 103 1002 99 100 99 99 97 98 99 98 98 107 104 103 102 101 1100 115 112 118 124 121 115 114 106	119 106 103 103 105 108 101 100 102 99 102 131 125 125 125 114 118 103 115 120 116 117 116 119 129 129 120 121 121 121 121 121 122

394634105465800 HOOP CREEK AT MOUTH NEAR BERTHOUD FALLS, CO--Continued TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		-	NOVEMBER		1	DECEMBER			JANUARY	7
		OCTOBBIC		•			•				011101111	
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29 30												
31												
MONTH												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY			MEAN	MAX		MEAN	MAX		MEAN	MAX		MEAN
		FEBRUARY			MARCH			MIN APRIL			MAY	
1		FEBRUARY			MARCH			APRIL		3.8	MAY	1.3
1 2		FEBRUARY			MARCH			APRIL		3.8 4.6	MAY .0 .9	1.3 2.2
1		FEBRUARY			MARCH			APRIL		3.8	MAY	1.3
1 2 3	 	FEBRUARY	 	 	MARCH	 	 	APRIL	 	3.8 4.6 4.3	.0 .9 1.3	1.3 2.2 2.4
1 2 3 4 5		FEBRUARY		 	MARCH	 	 	APRIL	 	3.8 4.6 4.3 4.5 5.8	.0 .9 1.3 1.5	1.3 2.2 2.4 2.6 2.6
1 2 3 4	 	FEBRUARY		 	MARCH	 	 	APRIL	 	3.8 4.6 4.3 4.5 5.8	MAY .0 .9 1.3 1.5 1.5	1.3 2.2 2.4 2.6 2.6
1 2 3 4 5		FEBRUARY		==== ==== ==== ====	MARCH	 	 2.4 2.6	APRIL0 .0	 .7	3.8 4.6 4.3 4.5 5.8 5.5 5.0 2.2	MAY .0 .9 1.3 1.5 1.5 1.6	1.3 2.2 2.4 2.6 2.6 2.6
1 2 3 4 5 6 7 8		FEBRUARY		=======================================	MARCH	==== ==== ==== ====	 2.4 2.6 3.2	APRIL0 .0 .5	 .7 .7	3.8 4.6 4.3 4.5 5.8 5.5 5.0 2.2	MAY .0 .9 1.3 1.5 1.5 .6 .5	1.3 2.2 2.4 2.6 2.6 2.6 2.7 1.5
1 2 3 4 5		FEBRUARY		==== ==== ==== ====	MARCH	 	 2.4 2.6	APRIL0 .0	 .7	3.8 4.6 4.3 4.5 5.8 5.5 5.0 2.2	MAY .0 .9 1.3 1.5 1.5 1.6	1.3 2.2 2.4 2.6 2.6 2.6
1 2 3 4 5 6 7 8 9 10		FEBRUARY		======================================	MARCH		 2.4 2.6 3.2 2.1	APRIL0 .0 .5 .2	 .7 .7 1.1 .8	3.8 4.6 4.3 4.5 5.8 5.5 5.0 2.2 4.8 6.7	MAY .0 .9 1.3 1.5 1.5 2.1 .5	1.3 2.2 2.4 2.6 2.6 2.6 2.7 1.5 2.1 3.4
1 2 3 4 5 6 7 8 9 10		FEBRUARY		==== ==== ==== ==== ====	MARCH		2.4 2.6 3.2 2.1 2.0 3.4	APRIL0 .0 .5 .2	 .7 .7 1.1 .8	3.8 4.6 4.3 4.5 5.8 5.5 5.0 2.2 4.8 6.7 6.0	MAY .0 .9 1.3 1.5 1.5 2.1 .5 .0	1.3 2.2 2.4 2.6 2.6 2.7 1.5 2.1 3.4
1 2 3 4 5 6 7 8 9 10		FEBRUARY		==== ==== ==== ==== ==== ====	MARCH		 2.4 2.6 3.2 2.1 2.0 3.4 3.3	APRIL 0 0 5 2 0 .6	 .7 .7 1.1 .8	3.8 4.6 4.3 4.5 5.8 5.5 5.0 4.8 6.7 6.0 1.2	MAY .0 .9 1.3 1.5 1.5 2.1 .5 .0 .0	1.3 2.2 2.4 2.6 2.6 2.7 1.5 2.1 3.4 2.8
1 2 3 4 5 6 7 8 9 10		FEBRUARY		==== ==== ==== ==== ====	MARCH		2.4 2.6 3.2 2.1 2.0 3.4	APRIL0 .0 .5 .2	 .7 .7 1.1 .8	3.8 4.6 4.3 4.5 5.8 5.5 5.0 2.2 4.8 6.7 6.0	MAY .0 .9 1.3 1.5 1.5 2.1 .5 .0	1.3 2.2 2.4 2.6 2.6 2.7 1.5 2.1 3.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY			MARCH		2.4 2.6 3.2 2.1 2.0 3.4 3.3 3.5	APRIL0 .0 .5 .2 .0 .0 .6 .6 .6 .0	 .7 .7 1.1 .8 .8 1.1 1.4	3.8 4.6 4.3 4.5 5.8 5.5 5.0 4.8 6.7 6.0 1.2 3.6 4.8 5.1	MAY .0 .9 1.3 1.5 1.5 1.6 .5 2.1 .5 .0 .0 .8 1.9	1.3 2.2 2.4 2.6 2.6 2.6 2.7 1.5 2.1 3.4 2.8 .2 2.2 3.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY			MARCH		 2.4 2.6 3.2 2.1 2.0 3.4 3.3 3.5 1.8	APRIL 0 0 5 2 0 0 6 6 0 0	 -7 .7 1.1 .8 .8 1.1 1.4 1.4	3.8 4.6 4.3 4.5 5.8 5.5 5.0 2.2 4.8 6.7 6.0 1.2 3.6 4.8 5.1	MAY .0 .9 1.3 1.5 1.5 1.5 .6 .5 2.1 .5 .0 .0 .8 1.9	1.3 2.2 2.4 2.6 2.6 2.7 1.5 2.1 3.4 2.8 2.2 3.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY			MARCH		2.4 2.6 3.2 2.1 2.0 3.4 3.3 3.5	APRIL0 .0 .5 .2 .0 .6 .6 .6 .0 .0 .5	 .7 .7 1.1 .8 .8 1.1 1.4	3.8 4.6 4.3 4.5 5.8 5.5 5.0 4.8 6.7 6.0 1.2 3.6 4.8 5.1	MAY .0 .9 1.3 1.5 1.5 1.5 2.1 .5 .0 .0 .8 1.9	1.3 2.2 2.4 2.6 2.6 2.7 1.5 2.1 3.4 2.8 2.2 2.2 3.0 3.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19		FEBRUARY			MARCH		2.4 2.6 3.2 2.1 2.0 3.4 3.3 3.5 1.8	APRIL	 .7 .7 1.1 .8 .8 1.1 1.4 .4 1.1 1.6 1.2	3.8 4.6 4.3 4.5 5.8 5.5 2.2 4.8 6.7 6.0 1.2 3.6 4.8 5.1	MAY .0 .9 1.3 1.5 1.5 1.5 2.1 .5 .0 .0 .8 1.9 1.6 .1 .7 .10	1.3 2.2 2.4 2.6 2.6 2.7 1.5 2.1 3.4 2.8 .2 1.2 2.2 3.0 3.2 1.0 3.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		FEBRUARY			MARCH		 2.4 2.6 3.2 2.1 2.0 3.4 3.3 3.5 1.8	APRIL	 .7 1.1 .8 8 1.1 1.4 1.4 .4	3.8 4.6 4.3 4.5 5.8 5.5 5.0 2.2 4.8 6.7 6.0 1.2 3.6 4.8 5.1	MAY .0 .9 1.3 1.5 1.5 1.6 .5 2.1 .5 .0 .0 .8 1.9 1.6 .1 .7	1.3 2.2 2.4 2.6 2.6 2.7 1.5 2.1 3.4 2.8 2.2 2.2 3.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19		FEBRUARY			MARCH		2.4 2.6 3.2 2.1 2.0 3.4 3.3 3.5 1.8	APRIL	 .7 .7 1.1 .8 .8 1.1 1.4 .4 1.1 1.6 1.2	3.8 4.6 4.3 4.5 5.8 5.5 2.2 4.8 6.7 6.0 1.2 3.6 4.8 5.1	MAY .0 .9 1.3 1.5 1.5 1.5 2.1 .5 .0 .0 .8 1.9 1.6 .1 .7 .10	1.3 2.2 2.4 2.6 2.6 2.7 1.5 2.1 3.4 2.8 .2 1.2 2.2 3.0 3.2 1.0 3.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		FEBRUARY			MARCH		 2.4 2.6 3.2 2.1 2.0 3.4 3.3 3.5 1.8 3.2 4.3 3.5 .0 2.7	APRIL	 .7 .7 1.1 .8 1.1 1.4 1.4 .4 1.1 1.6 1.2 .0	3.8 4.6 4.3 4.5 5.8 5.5 5.0 2.2 4.8 6.7 6.0 1.2 3.6 4.8 5.1 6.9 2.2 2.2 5.5 5.5	MAY .0 .9 1.3 1.5 1.5 1.3 1.7 .6 .5 2.1 .5 .0 .0 .8 1.9 1.6 .1 .7 1.0 1.8 1.7 2.6	1.3 2.2 2.4 2.6 2.6 2.7 1.5 2.1 3.4 2.8 2.2 2.2 3.0 3.2 1.3 2.6 3.3 4 3.4 3.4 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		FEBRUARY			MARCH		 2.4 2.6 3.2 2.1 2.0 3.4 3.3 3.5 1.8 3.2 4.3 3.5 .0 2.7	APRIL	 .7 1.1 .8 .8 1.1 1.4 1.4 .4 1.1 1.6 1.2 .0 .9	3.8 4.6 4.3 4.5 5.8 5.5 5.0 2.2 4.8 6.7 6.0 1.2 3.6 4.8 5.1 6.9 2.2 2.2 5.5 5.5	MAY .0 .9 1.3 1.5 1.5 1.3 1.7 .6 .5 2.1 .5 .0 .0 .8 1.9 1.6 .1 .7 1.0 1.8 1.7 2.6 3.1	1.3 2.24 2.6 2.6 2.7 1.5 2.1 3.4 2.8 2.2 2.2 3.0 3.2 1.3 2.6 3.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		FEBRUARY			MARCH		2.4 2.6 3.2 2.1 2.0 3.4 3.3 3.5 1.8 3.2 4.3 3.5 2.7	APRIL	 -7 .7 1.1 .8 1.1 1.4 1.4 1.1 1.6 1.2 .0 .9	3.8 4.6 4.3 4.5 5.5 5.0 2.2 4.8 6.7 6.0 2.3 6.4 9.2 2.2 5.5 5.5 6.7 7.2 8.2 8.5 6.7	MAY .0 .9 1.3 1.5 1.5 1.5 1.7 .6 .5 2.1 .5 .0 .0 .8 1.9 1.6 .1 .7 1.0 1.8 1.7 2.6 3.1 2.6	1.3 2.2 2.4 2.6 2.6 2.7 1.5 2.1 3.4 2.8 2.2 2.2 3.0 3.2 1.0 1.3 4.2 4.4 4.7
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		FEBRUARY			MARCH		2.4 2.6 3.2 2.1 2.0 3.4 3.3 3.5 1.8 3.2 4.3 3.5 5.0 2.7 3.6 2.1 2.0	APRIL	 .7 1.1 .8 .8 1.1 1.4 1.4 .4 1.1 1.6 1.2 .0 .9	3.8 4.6 4.3 4.5 5.8 5.5 5.0 2.2 4.8 6.7 6.0 1.2 3.6 4.8 5.1 6.9 2.2 2.2 5.5 5.5 5.5 6.7 7.2 2.2 2.2 2.2 5.5 5.6 6.7	MAY .0 .9 1.3 1.5 1.5 1.3 1.7 .6 .5 2.1 .5 .0 .0 .8 1.9 1.6 .1 .7 1.0 1.8 1.7 2.6 3.1 2.6 2.5	1.3 2.2 2.4 2.6 2.6 2.7 1.5 2.1 3.4 2.8 2.2 2.2 3.0 3.2 1.0 3.2 4.4 3.7 3.6
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		FEBRUARY			MARCH		 2.4 2.6 3.2 2.1 2.0 3.4 3.3 3.5 1.8 3.2 4.3 3.5 2.7	APRIL	 .7 .7 1.1 .8 1.1 1.4 1.4 1.1 1.6 1.2 .9	3.8 4.6 4.3 4.5 5.5 5.0 2.2 4.8 6.7 6.0 2.3 6.6 4.8 5.1 6.9 2.2 2.2 5.5 5.5 6.7 7.2 8.2 8.6 6.2	MAY .0 .9 1.3 1.5 1.5 1.3 1.7 .6 .5 2.1 .5 .0 .0 .8 1.9 1.6 .1 .7 1.0 1.8 1.7 2.6 3.1 1.7 2.6 3.1 2.6 2.5 2.1	1.3 2.2 2.4 2.6 2.6 2.7 1.5 2.1 3.4 2.8 2.2 2.2 2.3 3.0 3.2 1.0 1.3 2.6 3.0 3.5 4.2 4.3 7.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 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		FEBRUARY			MARCH		 2.4 2.6 3.2 2.1 2.0 3.4 3.3 3.5 1.8 3.2 4.3 3.5 .0 2.7	APRIL	 .7 .7 1.1 .8 8.1.1 1.4 1.4 1.1 1.6 1.2 .0 .9 1.3 .6 .7 .7 .8	3.8 4.6 4.3 4.5 5.8 5.5 5.0 2.2 4.8 6.7 6.0 2.3 4.8 5.1 6.9 2.2 2.2 5.5 5.6 2.2 4.8 5.6 6.7 7.7 8.6 6.7 7.7 8.6 6.7 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	MAY .0 .9 1.3 1.5 1.5 1.3 1.7 .6 .5 2.1 .5 .0 .0 .8 1.9 1.6 .1 .7 1.0 1.8 1.7 2.6 3.1 2.6 3.1 2.6 2.5 2.1	1.3 2.2 2.4 2.6 2.6 2.7 1.5 2.1 3.4 2.8 2.2 1.2 2.2 3.0 3.2 1.3 2.6 3.4 3.6 3.6
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		FEBRUARY			MARCH		 2.4 2.6 3.2 2.1 2.0 3.4 3.3 3.5 1.8 3.2 4.3 3.5 2.7	APRIL	 .7 .7 1.1 .8 1.1 1.4 1.4 1.1 1.6 1.2 .9	3.8 4.6 4.3 4.5 5.5 5.0 2.2 4.8 6.7 6.0 2.3 6.6 4.8 5.1 6.9 2.2 2.2 5.5 5.5 6.7 7.2 8.2 8.6 6.2	MAY .0 .9 1.3 1.5 1.5 1.3 1.7 .6 .5 2.1 .5 .0 .0 .8 1.9 1.6 .1 .7 1.0 1.8 1.7 2.6 3.1 1.7 2.6 3.1 2.6 2.5 2.1	1.3 2.2 2.4 2.6 2.6 2.7 1.5 2.1 2.2 3.0 3.2 1.0 3.2 1.0 3.5 4.4 3.7 3.6 3.0 3.6 4.5
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		FEBRUARY			MARCH		 2.4 2.6 3.2 2.1 2.0 3.4 3.3 3.5 1.8 3.2 4.3 3.5 .0 2.7 3.6 2.1 2.0 2.5 2.1 2.0 2.1 2.0 2.1 2.0 2.1 2.0 2.1 2.0 2.1 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	APRIL	 .7 .7 1.1 .8 1.1 1.4 1.4 1.1 1.6 1.2 .0 .9 1.3 .6 .7 .8 .9	3.8 4.6 4.3 4.5 5.8 5.5 5.2 4.8 6.7 6.0 2.2 3.6 4.8 5.1 6.2 2.2 5.5 5.5 6.7 7.8 8.2 5.6 2 4.2 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6	MAY .0 .9 1.3 1.5 1.5 1.5 1.6 .5 2.1 .5 .0 .0 .8 1.9 1.6 .1 .7 1.0 1.8 1.7 2.6 3.1 2.6 3.1 2.6 3.1 2.6 3.1 3.0	1.3 2.2 2.4 2.6 2.6 2.7 1.5 2.1 3.4 2.8 2.2 2.2 3.0 3.2 1.3 2.6 3.0 3.5 4.4 3.7 3.6 3.6 4.5 4.5 4.6 3.6 3.6 4.6 3.6 4.6 3.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 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 25 26 27 28 29		FEBRUARY			MARCH		2.4 2.6 3.2 2.1 2.0 3.4 3.3 3.5 1.8 3.2 2.7 3.6 2.7 3.6 2.1 2.0 2.7	APRIL	 .7 .7 1.1 .8 1.1 1.4 1.4 1.6 1.2 .9 1.3 .6 .7 .8 .9	3.8 4.6 4.3 4.5 5.5 5.0 2.2 4.8 6.7 6.0 2.3 3.6 4.8 5.1 6.9 2.2 2.2 5.5 5.5 6.7 7.2 8.2 6.2 4.2 6.2 4.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6	MAY .0 .9 1.3 1.5 1.5 1.3 1.7 .6 .5 2.1 .5 .0 .0 .8 1.9 1.6 .1 .7 1.0 1.8 1.7 2.6 3.1 2.5 2.1 1.9 2.9	1.3 2.2 2.4 2.6 2.6 2.7 1.5 2.1 3.4 2.8 2.2 2.2 2.2 3.0 3.2 1.3 4.3 4.3
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 29 30		FEBRUARY			MARCH		2.4 2.6 3.2 2.1 2.0 3.4 3.3 3.5 1.8 3.2 2.7 3.6 2.7 3.6 2.1 2.0 2.5 2.9	APRIL	 .7 .7 1.1 .8 1.1 1.4 1.4 1.1 1.6 1.2 .0 .9 1.3 .6 .7 .8 .9	3.8 4.6 4.3 4.5 5.8 5.5 5.2 4.8 6.7 6.0 2.2 3.6 4.8 5.1 6.2 2.2 5.5 5.5 6.7 7.8 8.2 5.6 2 4.2 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6	MAY .0 .9 1.3 1.5 1.5 1.5 1.6 .5 2.1 .5 .0 .0 .8 1.9 1.6 .1 .7 1.0 1.8 1.7 2.6 3.1 2.6 3.1 2.6 3.1 2.6 3.1 3.0	1.3 2.24 2.6 2.6 2.7 1.5 2.1 3.4 2.8 2.2 2.2 3.0 3.2 1.3 2.6 3.0 3.5 4.4 3.7 3.6 3.6 4.5 4.5 4.5 4.5 4.6

394634105465800 HOOP CREEK AT MOUTH NEAR BERTHOUD FALLS, CO--Continued TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	7.9 6.8 7.8 8.9 8.4	2.4 2.7 2.7 3.1 3.0	4.3 4.3 4.5 5.2 5.0	9.6 8.9 10.2 10.3 9.9	5.1 4.8 5.7 4.7 3.9	6.9 6.7 7.3 6.8 6.6	10.2 11.4 9.8 11.3 10.8	5.9 7.0 7.4 7.7 7.2	7.9 8.7 8.6 9.1 8.6	9.0 9.3 8.5 10.0 10.5	5.6 5.5 4.5 5.1 6.1	7.2 7.1 6.4 7.5 8.0
6 7 8 9 10	8.9 9.3 8.3 8.7 7.8	3.2 3.2 3.8 3.9 2.6	5.3 5.5 5.6 5.4 4.8	11.1 8.8 9.5 10.1 10.4	4.8 5.6 5.9 6.1 6.2	7.5 7.2 7.4 7.8 7.9	10.5 10.5 10.9 10.6 11.6	6.3 5.4 5.7 6.1 6.6	8.0 7.5 7.9 8.0 8.7	10.7 9.4 8.9 8.9 9.7	6.2 5.0 6.0 5.2 5.4	7.9 7.0 7.2 6.7 7.0
11 12 13 14 15	7.7 8.5 6.9 9.0 8.8	3.0 2.9 3.5 2.8 4.2	4.9 5.1 4.7 5.2 5.8	10.3 8.8 10.5 10.0 9.4	5.9 6.1 5.9 6.1 6.5	7.8 7.4 7.9 7.8 7.6	10.9 10.3 11.8 10.0 11.0	7.8 7.6 6.6 7.0 7.0	9.1 8.8 8.9 8.5 8.7	8.7 9.6 9.7 9.8 10.0	5.4 4.9 4.8 4.7 5.2	6.7 6.9 7.0 7.0 7.2
16 17 18 19 20	7.1 7.4 8.8 6.8 8.6	2.7 2.2 2.6 4.4 3.4	4.2 4.1 5.2 5.3 5.2	10.4 9.9 11.2 10.4 10.0	6.7 6.5 5.7 5.1 5.2	8.0 7.9 7.9 7.4 7.4	11.3 10.2 10.0 10.5 9.4	7.8 7.3 6.8 7.0 6.9	9.0 8.4 8.3 8.5 8.0	9.8 9.3 9.0 9.6 7.2	4.9 5.3 6.2 5.6 2.9	7.1 7.1 7.1 7.2 5.1
21 22 23 24 25	9.5 9.6 7.6 9.6 8.4	2.8 4.0 4.3 4.1 4.8	5.4 6.1 5.8 6.2 6.2	10.1 10.9 10.9 10.5 11.1	5.7 5.4 5.0 6.0 6.1	7.7 7.9 7.7 7.9 8.1	9.1 9.6 10.4 10.3 9.9	5.9 6.3 6.1 6.3 6.9	7.5 7.8 7.9 8.1 8.5	6.9 7.9 3.3 1.2 4.1	4.5 3.3 .0 .0	5.4 5.4 1.8 .5
26 27 28 29 30 31	7.4 9.2 8.1 9.5 9.8	4.9 4.1 3.9 4.6 4.2	5.9 5.8 5.8 6.4 6.7	10.1 9.5 10.7 9.7 9.4 10.5	6.5 6.3 6.1 5.9 5.8 5.4	8.1 7.8 8.1 7.7 7.5 7.6	9.1 11.1 10.4 10.2 9.8 8.8	7.2 6.9 7.0 6.9 7.1 5.5	8.1 8.6 8.5 8.2 8.2 7.2	5.6 6.7 6.9 7.5 7.3	.7 1.8 2.4 4.6 4.6	2.8 3.8 4.5 5.6 5.6
MONTH YEAR	9.8 11.8	2.2	5.3 5.3	11.2	3.9	7.6	11.8	5.4	8.3	10.7	.0	5.9

platte river basin 87

06716100 WEST FORK CLEAR CREEK ABOVE MOUTH NEAR EMPIRE, CO

LOCATION.--Lat 39°45'32", long 105°39'34", in $\mathrm{NE}^1/_4\mathrm{SW}^1/_4$ 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 fair 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.

		DISCHAR	GE, CUBIC	FEET PER	SECOND, W	WATER YEA MEAN VAI		1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	35	e21	e24	e22	e17	19	71	434	202	62	57
2	47	32	e22	e25	e23	e18	19	77	442	195	61	52
3	47	33	e23	e20	e22	e18	19	98	402	188	64	52
4	46	32	e24	e17	e21	e18	21	122	405	176	67	48
5	45	32	e25	e26	e20	e19	23	155	403	165	56	48
6	47	32	e24	e23	e21	e19	24	187	397	157	54	53
7	52	31	e21	e25	e20	e19	23	201	400	148	56	50
8	50	31	e22	e27	e20	e17	23	201	402	146	53	50
9	48	30	e24	e25	e21	e18	26	180	399	150	53	50
10	47	30	e23	e28	e18	e18	28	172	401	161	52	46
11	44	30	e22	e24	e19	e17	26	188	380	134	52	45
12	43	e27	e24	e24	e22	e18	27	182	362	135	52	42
13	42	e28	e22	e24	e21	e17	30	162	354	127	51	41
14	41	e27	e20	e24	e20	e16	33	156	323	123	48	41
15	41	e26	e21	e24	e20	e18	34	151	311	125	46	40
16	40	e27	e23	e23	e20	e17	32	158	309	135	45	40
17	39	e27	e25	e23	e21	e16	33	173	288	148	48	39
18	41	e25	e23	e22	e22	e18	36	156	265	134	58	38
19	41	e23	e22	e21	e19	e17	37	148	277	125	51	39
20	39	e27	e20	e20	e21	e19	36	144	306	118	47	46
21	39	e25	e20	e19	e20	e18	38	137	254	111	44	49
22	38	e27	e18	e21	e20	e17	41	154	244	107	42	64
23	38	e26	e20	e23	e20	e18	42	209	238	102	40	49
24	38	e21	e21	e23	e19	e18	43	273	227	93	41	49
25	36	e25	e24	e25	e18	e18	41	299	233	80	42	47
26 27 28 29 30 31	35 36 35 35 34 36	e29 e26 e24 e23 e23	e25 e24 e25 e23 e24 e25	e26 e24 e23 e22 e19 e20	e19 e19 e18 e18	e18 e18 19 19 19	43 49 61 71 78	301 288 298 355 375 395	260 253 229 216 208	78 77 74 71 68 65	45 45 43 81 51 50	47 45 41 41 42
TOTAL	1287	834	700	714	584	553	1056	6166	9622	3918	1600	1391
MEAN	41.5	27.8	22.6	23.0	20.1	17.8	35.2	199	321	126	51.6	46.4
MAX	52	35	25	28	23	19	78	395	442	202	81	64
MIN	34	21	18	17	18	16	19	71	208	65	40	38
AC-FT	2550	1650	1390	1420	1160	1100	2090	12230	19090	7770	3170	2760
					EARS 1995							
MEAN	31.7	24.0	19.2	16.9	14.6	15.3	23.4	128	361	225	102	48.5
MAX	41.5	29.0	26.1	23.5	20.1	19.3	35.2	199	504	395	199	66.5
(WY)	2000	1996	1999	1999	2000	1999	2000	2000	1997	1995	1999	1999
MIN	22.0	15.9	10.4	9.92	11.1	12.7	15.3	47.2	207	126	51.6	37.2
(WY)	1995	1995	1995	1995	1995	1998	1995	1995	1998	2000	2000	1996
SUMMARY	STATISTI	CS	FOR 1	.999 CALEN	DAR YEAR	F	OR 2000 WA	TER YEAR		WATER YEA	ARS 1995	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN A		35223 96.5 456 e13 15 69860 294 35 20	Jun 24 Mar 15 Mar 9		28425 77.7 442 e16 e17 521 5.82 56380 219 38 19	Jun 2 Mar 14 Mar 11 Jun 1 Jun 1		84.4 96.2 60.9 720 e9.5 9.6 774 6.67 61120 259 29	Jan 1 Jan 1 Jun 1	1999 1998 8 1995 6 1995 4 1995 8 1995 8 1995

e Estimated.

August P. Gumlick Tunnel (formerly Jones Pass tunnel).

06716500 CLEAR CREEK NEAR LAWSON, CO

LOCATION.--Lat $39^{\circ}45^{\circ}57^{\circ}$, long $105^{\circ}37^{\circ}32^{\circ}$, in $NW^{1}/_{4}NW^{1}/_{4}$ sec.25, T.3 S., R.74 W., Clear Creek County, Hydrologic Unit 10190004, at east edge of Lawson, on left bank, 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

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 good 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.

		DISCHARG	E, CUBIC	FEET PER		WATER YEA	AR OCTOBER LUES	1999 TO	SEPTEMBER	2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	102 103 100 99 97	69 61 62 63 61	52 53 53 52 48	42 41 38 e50 e47	e38 e39 40 37 37	37 38 37 39 40	39 39 39 40 44	131 153 205 239 273	669 638 623 633 628	319 315 312 299 285	140 134 140 147 121	133 121 114 107 102
6 7 8 9 10	100 106 102 102 99			40 55 e48 49 50	36 36 36 36 37	41 41 38 39 38	48 45 43 49 54	301 315 308 280 273	611 606 598 583 546	277 271 270 283 289	119 116 108 105 103	109 103 101 104 93
11 12 13 14 15	95 90 91 90 86	58 57 55 55 60	e54 e52 59 53 63	41 39 38 38 38	37 36 37 37 37	38 40 38 39 39	EO	301 294 269 261 259	497 473 453 421 422	269 266 256 250 251	103 102 100 98 97	83 79 76 74 73
16 17 18 19 20	84 72 86 84 81	61 64 e58 49 58	65 e64 57 56 51	38 37 38 39 37	36 38 38 36 37	39 39 38 37 40	62 63 74 73 70	272 288 263 254 252	421 397 369 388 430	261 316 282 261 243	98 100 141 113 101	71 71 69 69 77
21 22 23 24 25	80 79 78 78 74	56 56 50 47 57	50 50 50 51 51	37 38 35 36 39	38 38 38 38 37	37 38 39 39 39	77	249 269 336 450 483	367 359 351 339 344	230 224 218 205 192	99 94 92 88 110	92 138 109 129 97
26 27 28 29 30 31	74 73 71 73 66 70	71 59 56 54 54	50 49 44 44 43 43	38 37 e30 e35 e36 e37	38 39 38 38 	39 39 42 41 41 39	82 96 126 142 158	459 417 434 562 663 691	364 369 340 327 322	185 177 175 161 152 146	109 110 98 166 128 125	98 88 79 76 81
TOTAL MEAN MAX MIN AC-FT	2685 86.6 106 66 5330	1750 58.3 71 47 3470	1619 52.2 65 43 3210	1241 40.0 55 30 2460	1083 37.3 40 36 2150	1208 39.0 42 37 2400		10204 329 691 131 20240	13888 463 669 322 27550	7640 246 319 146 15150	3505 113 166 88 6950	2816 93.9 138 69 5590
STATIST	ICS OF MO	NTHLY MEAN	DATA FO	R WATER YI	EARS 1946	- 2000,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	61.1 132 1962 35.6 1957	43.5 79.9 1985 30.2 1961	34.1 52.2 2000 24.5 1955	29.1 41.0 1971 18.2 1955	27.7 37.3 2000 16.8 1955	28.0 39.0 2000 17.6 1951	42.9 89.1 1962 26.3 1964	197 431 1958 83.4 1995	608 1000 1952 223 1954	407 943 1957 125 1954	174 404 1984 69.9 1977	90.4 193 1984 45.6 1954
SUMMARY	STATISTI	CS	FOR 1	999 CALENI	DAR YEAR	F	OR 2000 WAS	TER YEAR		WATER YEA	RS 1946	- 2000
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		66127 181 975 e27 32 131200 515 72 35	Jun 25 Feb 12 Feb 11		49732 136 691 e30 36 790 5.50 98640 337 74 38	May 31 Jan 28 Jan 23 May 30 May 30		146 225 72.3 1660 13 15 6130 a7.41 105800 423 51 26	Jun 1 Feb 2 Feb 1 Jun -	1984 1954 1965 0 1955 8 1955 4 1956 4 1956

e Estimated.

a Site and datum then in use.

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

LOCATION.--Lat $39^{\circ}42^{\circ}59^{\circ}$, long $105^{\circ}34^{\circ}15^{\circ}$, in $NW^{1}/_{4}SW^{1}/_{4}$ sec.9, T.4 S., R.73 W., Clear Creek County, Hydrologic Unit 10190004, on left bank, 50 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.--October 1994 to September 1999. October 1999 to September 2000 (seasonal records only). Records for May 14, 1996 (when gage was located 700 ft upstream) to April 10, 1998, may not be equivalent to other 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 150 ft downstream at different datum. May 14, 1996 to Apr. 10, 1998, at site 700 ft upstream 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 175 ft³/s, June 8, 1997, gage height, 6.51 ft; minimum daily, 1.0 ft³/s (estimated), Feb. 11, 1999.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 69 ft³/s at 2400 hrs July 16, gage height, 5.28 ft; minimum daily, 1.2 ft³/s (estimated), Dec. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAILY MEAN VALUES DAY OCT NOV DEC JAN MAR APR MAY JUN JUL AUG SEP 14 3.2 e3.0 8.5 8.7 2 12 e3.5 1.2 --------e4.0 19 2.7 8.7 8.7 18 e5.0 12 22 8.8 3.4 10 7.4 7.2 9.5 11 3.3 1.3 e7.0 31 26 16 ------9.5 ---8.9 5 3.0 1.4 9.3 43 26 15 6 9.3 2.4 e1.9 10 45 24 9.0 8.5 15 2.3 24 23 16 e1.9 ___ ___ ___ 9.9 45 9.1 7.8 14 --------e1.8 9.0 9.5 8 15 44 8.4 13 8.9 39 9.7 13 10 ------7.4 15 2.3 e1.9 ---8.8 40 27 14 12 11 14 2.3 8.1 26 6.3 11 e1.8 10 44 ---------7.5 6.9 12 14 2.2 8.8 40 9.4 11 13 2.0 e1.8 10 11 12 34 23 11 ------11 9.8 ---15 9.2 2.0 e1.8 11 32 20 8.3 7.4 10 9.4 2.2 31 19 15 8.3 16 e2.1 ---------8.9 9.7 17 8.9 e2.0 e1.7 ---------29 38 8.3 9.6 11 20 e2.5 10 18 12 19 18 16 6.1 e1.6 20 9.6 2 0 e1 5 ___ ___ ___ 10 19 21 40 8.6 12 7.5 7.6 2.0 21 e1.5 11 19 16 37 5.9 12 22 e1.5 22 34 5.2 15 e2.2 15 12 23 24 6.8 e2.4 e2.6 e1.5 e1.6 13 12 30 23 6.2 12 13 ---------28 34 25 5.0 2.9 e1.5 ___ ___ ___ 12 33 14 9.5 7.8 12 2.2 26 4 7 e1 5 13 29 14 10 12 12 27 4.3 e1.4 ------26 13 12 16 11 16 28 4.0 1.6 e1.4 17 27 11 11 7.9 11 29 3.9 ---------32 9.4 10 1.4 e1.4 18 14 11 30 31 3.6 31 9.0 15 22 1.3 e1.5 e1.4 19 8.6 8.5 279.3 TOTAL 292.6 70.9 49.6 319.7 956 597.0 461.4 385.3 ---------2.36 1.60 10.7 19.9 14.9 9.01 12.8 30.8 MAX 17 3.5 2.1 19 45 29 40 2.2 2.7 8.6 915 AC-FT 580 141 98 634 1900 1180 554 764

e Estimated.

06718300 CLEAR CREEK ABOVE JOHNSON GULCH NEAR IDAHO SPRINGS, CO

LOCATION.--Lat $39^{\circ}44^{\circ}47^{\circ}$, long $105^{\circ}26^{\circ}08^{\circ}$, in $\mathrm{NE}^{1}/_{4}\mathrm{SW}^{1}/_{4}$ 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.

		DISCHAR	GE, CUBIC	C FEET PER	R SECOND, W	VATER YE. MEAN VA		1999 TO	SEPTEMBE	ER 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	152 151 148 145 143	102 91 93 93 90	e67 e70 e71 e72 e72	e45 e35 e30 e26 e45	e50 e65 e62 e60 e60	55 57 56 57 60	61 62 63 63 72	197 216 284 342 430	861 821 794 795 797	378 369 362 340 313	184 179 171 181 162	169 149 141 135 130
6 7 8 9	146 158 139 139 132	88 88 90 88 86	e73 e70 e68 e60 e64	e35 e42 e50 e50 e60	e58 e56 e54 e52 e50	60 60 57 58 55	76 74 69 76 83	496 523 509 426 394	774 772 761 740 693	299 290 283 308 335	159 156 148 144 142	139 141 141 141 139
11 12 13 14 15	129 121 124 127 119	92 90 88 87 88	e64 e66 e72 e64 e68	e61 e60 e58 e56 e54	e54 e56 e52 e50 e50	55 59 56 57 59	80 79 89 97 105	467 450 373 350 344	632 594 580 524 524	292 286 276 262 264	141 145 149 146 145	130 117 e116 e115 114
16 17 18 19 20	119 101 126 138 132	85 88 92 67 84	e70 e68 e66 e64 e62	e52 e50 e47 e46 e45	e48 e52 e54 e53 e56	60 61 58 56 61	96 97 112 113 105	360 412 348 322 328	527 499 448 473 554	297 426 338 297 287	149 155 188 166 150	109 109 106 106 122
21 22 23 24 25	125 123 115 113 107	82 83 70 64 e72	e60 e58 e56 e60 e60	e44 e45 e45 e46 e48	e55 e54 e52 e51 56	57 58 60 59 60	112 133 133 132 119	316 356 480 653 701	454 432 425 406 417	269 257 249 232 211	150 144 144 139 155	127 159 134 144 125
26 27 28 29 30 31	107 104 102 101 95 102	e76 e76 e74 e72 e68 	e56 e58 e50 e45 e44 e44	e50 e45 e43 e42 e40 e45	54 59 58 56 	61 64 64 62 60	127 145 183 206 233	671 593 602 770 883 910	451 478 423 396 383	220 214 213 204 193 188	156 160 146 190 167 165	126 119 111 108 112
TOTAL MEAN MAX MIN AC-FT	3883 125 158 95 7700	2507 83.6 102 64 4970	1942 62.6 73 44 3850	1440 46.5 61 26 2860	1587 54.7 65 48 3150	1823 58.8 64 55 3620	3195 106 233 61 6340	14506 468 910 197 28770	17428 581 861 383 34570	8752 282 426 188 17360	4876 157 190 139 9670	3834 128 169 106 7600
					TEARS 1995							
MEAN MAX (WY) MIN (WY)	109 126 1999 65.0 1995	70.1 83.6 2000 49.6 1995	54.5 62.6 2000 43.2 1995	44.4 54.6 1996 34.1 1995	42.1 54.7 2000 30.5 1995	48.7 58.8 2000 43.1 1995	76.8 106 2000 49.9 1995	378 549 1996 221 1995	973 1325 1995 581 2000	661 1398 1995 282 2000	325 526 1999 157 2000	167 213 1999 128 2000
SUMMARY	STATISTI	CS	FOR 1	1999 CALE	IDAR YEAR	F	OR 2000 WA	TER YEAR		WATER YEA	RS 1995	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT ANNUAL 10 PERC 50 PERC		AN A		94899 260 1200 e42 e45 188200 756 102 50	Jun 25 Feb 12 Feb 19		910 e26 e37 1070 6.64 130500 449 110 52	May 31 Jan 4 Jan 1 May 31 May 31		246 326 180 2080 e26 27 2250 a7.46 178500 678 94 42	Jan Feb 1 Jun 2	1995 2000 22 1995 4 2000 13 1995 21 1995 21 1995

e Estimated. a Maximum gage height, 8.23 ft, Jun 17, 1995.

06718550 NORTH CLEAR CREEK ABOVE MOUTH NEAR BLACKHAWK, CO

LOCATION.--Lat $39^{\circ}44^{\circ}56^{\circ}$, long $105^{\circ}23^{\circ}57^{\circ}$, 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.

		DISCHAF	RGE, CUBIO	C FEET PER		WATER YE.	AR OCTOBER LUES	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	11	e6.4	e6.4	e3.5	7.2	9.8	43	60	13	5.0	7.8
2	13	9.1	e6.4	e5.0	e4.0	7.2	9.3	48	55	13	4.8	5.9
3	13	11	e6.2	e4.5	e4.2	7.1	11	50	52	13	4.8	5.2
4	12	10	e6.2	e5.0	e3.8	7.6	11	56	49	12	e3.9	4.9
5	13	10	e6.8	e6.0	e4.0	8.1	15	65	46	11	e1.8	4.7
6	12	9.8	e7.2	e5.4	e4.2	7.8	16	71	43	10	e.15	4.3
7	16	9.5	e7.4	e5.8	e4.4	8.3	14	73	40	9.7	e.00	4.1
8	16	9.8	e6.4	e6.6	e4.7	7.4	13	74	38	9.4	e.00	4.1
9	15	9.5	e6.8	e6.0	e5.0	7.6	14	72	36	9.6	e.00	4.3
10	14	9.0	e7.0	e6.2	e4.8	7.7	16	69	33	13	e.00	4.1
11	13	9.4	e6.8	e6.4	e5.2	8.2	14	66	31	9.6	e.00	3.9
12	12	8.6	e7.0	e6.2	e5.6	7.3	14	63	28	8.9	e.00	3.9
13	12	e8.0	e6.6	e6.0	e5.4	7.7	14	59	27	9.3	e.03	3.7
14	12	e7.8	e6.4	e5.6	e5.8	7.3	16	56	25	8.5	e.53	e2.6
15	12	e7.6	e6.0	e5.4	e6.0	8.3	17	51	23	8.1	e.01	e.26
16	12	e7.4	e6.8	e5.2	e5.8	10	16	50	23	9.8	e3.9	e.07
17	10	e7.0	e7.4	e5.0	e6.2	9.8	17	51	25	25	11	e.10
18	12	e7.8	e6.6	e4.5	e6.4	8.0	19	50	22	11	14	e.07
19	13	e6.0	e6.2	e4.3	e6.2	9.9	20	53	21	9.0	8.5	e.07
20	13	e7.0	e6.0	e4.1	e6.8	8.8	19	51	26	8.2	5.4	4.9
21	12	e6.8	e5.8	e4.0	e6.6	8.7	20	46	20	7.4	4.8	5.0
22	12	e7.0	e5.6	e4.1	e6.2	8.1	24	47	18	6.9	4.6	7.6
23	12	e6.0	e6.0	e4.2	e5.8	8.4	28	50	17	6.9	4.2	6.0
24	12	e5.6	e6.2	e4.4	e6.5	9.4	26	57	17	6.5	4.0	7.0
25	11	e6.6	e6.4	e4.6	7.4	9.1	24	65	16	6.2	4.0	6.1
26 27 28 29 30 31	11 11 11 11 10	e8.0 e7.4 e7.0 e6.6 e6.4	e6.4 e6.4 e6.0 e5.8 e5.8 e6.0	e4.7 e4.0 e3.3 e3.2 e3.0 e3.5	10 8.3 7.5 7.6 	9.4 9.7 10 9.9 9.6 8.6	25 30 35 39 45	65 64 62 64 63	21 21 17 15 14	5.9 5.8 6.1 5.7 5.4 5.1	4.8 5.5 5.0 8.8 7.4 8.0	6.1 5.7 5.3 5.1 5.6
TOTAL	380	242.7	199.0	152.6	167.9	262.2	591.1	1818	879	289.0	124.92	128.47
MEAN	12.3	8.09	6.42	4.92	5.79	8.46	19.7	58.6	29.3	9.32	4.03	4.28
MAX	16	11	7.4	6.6	10	10	45	74	60	25	14	7.8
MIN	10	5.6	5.6	3.0	3.5	7.1	9.3	43	14	5.1	.00	.07
AC-FT	754	481	395	303	333	520	1170	3610	1740	573	248	255
							BY WATER					
MEAN	6.34	4.87	3.74	3.19	3.33	5.62	15.7	88.0	97.1	24.2	18.4	7.59
MAX	12.3	8.09	6.42	4.92	5.79	8.46	24.5	112	228	49.7	50.8	13.3
(WY)	2000	2000	2000	2000	2000	2000	1998	1995	1995	1995	1999	1999
MIN	3.08	2.68	1.68	1.30	1.38	2.21	7.60	58.6	29.3	9.32	4.03	4.28
(WY)	1995	1995	1995	1995	1995	1995	1995	2000	2000	2000	2000	2000
SUMMARY	STATIST	ICS	FOR :	1999 CALEN	DAR YEAR	F	OR 2000 WA	TER YEAR		WATER Y	EARS 1995	5 - 2000
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST 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			10374.3 28.4 166 e3.5 e3.6 20580 92 11 4.9	May 29 Jan 8 Jan 7		5234.89 14.3 74 e.00 e.00 84 4.70 10380 44 7.9 4.1	May 8 Aug 7 Aug 7 May 8		23.2 35.6 14.3 415 e.C e.C a759 5.8 16830 71 6.8 2.4	May 00 Aug 00 Aug Jun 37 Jun	1995 2000 31 1995 7 2000 7 2000 2 1995 2 1995	
o Fati	mat od											

e Estimated.

a From rating curve extended above 300 ft³/s.

06719505 CLEAR CREEK AT GOLDEN, CO

LOCATION.--Lat $39^{\circ}45^{\circ}11^{\circ}$, long $105^{\circ}14^{\circ}05^{\circ}$, in $NE^{1}/_{4}NW^{1}/_{4}$ 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. Prior to Sept. 12, 1980, at site 80 ft downstream. Prior to Jan. 22, 1987, at datum 2.00 ft higher, at both sites.

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.

		DISCHARG	E, CUBIC	FEET PER		WATER YE MEAN VA	EAR OCTOBER	1999 TO	SEPTEMBE	ER 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	121	87	e83	e75	59	64	228	872	380	170	196
2	130	105	87	e83	e80	62	76	241	834	372	183	174
3	127	110	99	e84	e87	60	71	282	806	364	168	160
4	124	111	103	e82	81	60	77	332	808	341	190	153
5	120	105	106	e81	79	64	88	409	801	315	169	142
6	117	105	90	e81	76	64	97	470	779	299	156	148
7	138	103	90	e82	71	65	95	500	770	291	153	144
8	148	105	98	e81	67	62	85	511	757	277	148	136
9	139	104	e95	e82	65	62	90	439	744	305	140	148
10	127	96	e94	e81	63	57	101	392	713	339	140	137
11	123	101	e93	e83	63	55	e110	440	662	292	140	129
12	112	101	e92	e88	64	64	e112	438	620	276	143	125
13	112	97	e91	e85	60	59	e114	377	597	274	152	121
14	114	95	e90	e84	64	61	e117	360	534	252	146	117
15	105	96	e87	e85	64	66	e119	351	530	248	140	116
16	113	95	e88	e86	61	63	e121	353	538	262	151	109
17	95	96	e89	e85	64	71	e123	403	525	479	164	108
18	120	100	e90	e80	68	67	125	367	473	392	222	106
19	128	75	e89	e75	68	59	132	343	473	313	183	106
20	124	95	e88	e70	72	71	123	347	558	278	155	128
21	132	90	e87	e65	67	62	129	329	463	254	155	137
22	134	100	e86	e67	64	64	146	348	436	236	144	182
23	129	79	e84	e67	62	65	166	436	428	225	145	151
24	124	72	e85	e66	63	66	160	608	408	204	137	161
25	121	91	e85	e68	60	66	146	681	418	172	154	142
26 27 28 29 30 31	117 115 117 118 112 118	114 104 97 91 90	e83 e84 e84 e86 e85 e84	e62 e57 e53 e51 e48 e57	51 67 65 61 	65 67 71 71 70 72	148 164 201 221 262	663 592 583 742 866 900	446 498 435 397 383	180 178 177 170 156 151	157 172 155 208 193 183	136 123 117 112 114
TOTAL	3785	2944	2779	2302	1952	1990	3783	14331	17706	8452	5016	4078
MEAN	122	98.1	89.6	74.3	67.3	64.2	126	462	590	273	162	136
MAX	148	121	106	88	87	72	262	900	872	479	222	196
MIN	95	72	83	48	51	55	64	228	383	151	137	106
AC-FT	7510	5840	5510	4570	3870	3950	7500	28430	35120	16760	9950	8090
MEAN MAX	86.1 192	63.4 115	50.4 89.6	44.4 74.3	43.1 67.3	- 2000, 44.5 64.2	, BY WATER 1 75.8 126	324 655	793 1522	473 1203	219 535	129 231
(WY)	1985	1985	2000	2000	2000	2000	2000	1984	1995	1995	1999	1984
MIN	54.3	39.2	33.5	29.3	25.9	31.2	39.0	123	382	161	100	78.8
(WY)	1982	1982	1990	1995	1995	1976	1982	1981	1977	1977	1977	1977
SUMMARY	STATISTI	CS	FOR 1	.999 CALEN	NDAR YEAR	F	FOR 2000 WA	TER YEAR		WATER YEA	RS 1975	- 2000
ANNUAL HIGHEST LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST DAILY 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			93839 257 1110 41 47 186100 747 114 54	Jun 25 Feb 12 Mar 9		69118 189 900 e48 e57 983 7.03 137100 439 117 64	May 31 Jan 30 Jan 25 May 31 May 31		196 321 109 2300 18 24 2370 a6.44 141900 550 80 37	Dec Feb Jul 1	1995 1977 17 1995 2 1981 6 1986 10 1983 10 1983

e Estimated.

a Maximum gage height, 8.10 ft, Jun 21, 1995.

06720500 SOUTH PLATTE RIVER AT HENDERSON, CO

LOCATION.--Lat $39^{\circ}55^{\circ}19^{\circ}$, long $104^{\circ}52^{\circ}04^{\circ}$, in $\mathrm{SE}^1/_4\mathrm{NE}^1/_4$ 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 CO-88-1: 1986.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4999.12 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 5.00 ft higher. May 11 to Oct. 2, 1969, nonrecording gage at site 500 ft downstream at datum 3.00 ft higher. Oct. 3, 1969 to Jan. 15, 1986, at present site, at datum 3.00 ft higher.

REMARKS.--Records good except for flows above 657 ft³/s, and Mar. 30 and Sept. 17, which are 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.

	DI	SCHARGE,	CUBIC FEET	PER SECOND, DAILY	WATER YE MEAN VA		1999 TO	SEPTEMBE	ER 2000		
DAY	OCT N	OV DI	EC JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
2 3 4	517 5 536 5 509 6	68 24 98 23 03 3	58 556 43 550 81 582 05 567 85 550	487 484 493 374 359	331 336 375 344 349	855 763 874 467 333	460 226 186 224 332	535 445 398 401 415	589 615 572 534 505	329 331 329 336 352	381 241 273 268 257
7 8 9	449 5 434 5 418 5	96 20 95 20 91 20	79 527 67 508 73 513 74 508 56 520	358 351 345 346 360	351 359 368 323 306	333 323 335 303 292	372 365 884 920 433	382 458 439 420 502	477 432 436 427 490	323 330 323 297 276	227 226 207 195 187
12 13 14	452 5 415 5 453 5	93 2: 73 2: 56 2:	52 502 38 508 40 496 46 490 25 490	364 373 364 364 364	300 290 285 276 336	277 239 217 208 242	421 405 358 392 350	485 452 382 428 388	545 497 567 491 598	266 260 282 314 283	176 170 174 176 171
17 18 19	873 5 674 5 678 5	09 2: 15 2: 10 2:	22 496 46 520 36 514 39 509 28 520	361 362 386 383 359	655 549 437 341 414	303 234 221 260 251	314 938 1970 796 466	503 921 531 456 788	518 4090 1010 413 465	356 1400 2090 456 274	172 e173 180 185 703
22 23 24	569 8 532 5 528 3	48 5: 27 5: 39 5:	17 527 07 530 51 515 68 512 31 504	355 359 476 515 376	619 560 457 433 432	234 242 315 302 259	453 432 465 576 852	512 504 529 514 573	467 430 436 423 404	245 294 299 287 304	323 267 328 680 361
27 28 29 30	477 2 466 2 476 2 495 2	78 50 63 50 64 60 61 60	26 552 68 722 85 649 05 544 06 517 79 506		403 273 250 343 e289 826	233 272 262 287 968	761 434 334 368 526 566	1030 939 689 481 441	374 335 313 305 323 332	498 417 472 785 507 277	304 298 289 279 315
MEAN MAX MIN AC-FT 32	873 8 415 2 160 302	08 3! 48 6! 61 2: 10 220!	59 532 06 722 22 490 90 32740	384 515 345 22100	12210 394 826 250 24220	10704 357 968 208 21230	16579 535 1970 186 32880	15941 531 1030 382 31620	18413 594 4090 305 36520	13592 438 2090 245 26960	8186 273 703 170 16240
MEAN MAX 1 (WY) 1 MIN	359 3 835 12 985 19	40 30 68 51 85 198 73 1	08 332 54 592 84 1984 77 155	R YEARS 1976 320 642 1984 156 1977	- 2000, 361 842 1983 118 1982	542 1732 1983 140 1982	YEAR (WY) 1135 3923 1980 324 1986	1296 4796 1995 334 1981	835 3204 1995 269 1994	669 2074 1984 279 1977	388 1141 1984 157 1977
SUMMARY ST. ANNUAL TOT. ANNUAL MEA HIGHEST AN LOWEST ANN HIGHEST DAI ANNUAL SET INSTANTANE INSTANTANE ANNUAL RUN 10 PERCENT 90 PERCENT 90 PERCENT 90 FERCENT	AL N NUAL MEAN UAL MEAN LLY MEAN LLY MEAN LLY MEAN OUS PEAK F OUS PEAK S OFF (AC-FT EXCEEDS EXCEEDS EXCEEDS	IMUM LOW FAGE	FOR 1999 CA 319708 876 5490 104 120 634100 2600 515 221	Aug 5 Mar 28 Mar 24	F	FOR 2000 WA 165855 453 4090 170 173 8460 8.58 329000 606 420 246	Jul 17 Sep 12 Sep 11 Jul 17		a575 1379 252 b6500 c27 69 d12300 f7.5 416500 1090 350 182	Apr Mar 1 Jun 2	- 2000 1983 1981 9 1995 7 1977 13 1982 27 1983 27 1983

Estimated. Average discharge for 48 years (water years 1927-74), 366 ft³/s; 265200 acre-ft/yr, prior to completion of Chatfield Dam.

Maximum daily discharge for period of record, 13200 ft³/s, May 7, 1973.

Minimum daily discharge for period of record, 4.4 ft³/s, Apr 1, 1950.

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.

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

06720820 BIG DRY CREEK AT WESTMINSTER, CO

LOCATION.--Lat $39^{\circ}54^{\circ}20^{\circ}$, long $105^{\circ}02^{\circ}04^{\circ}$, in $\mathrm{NE}^{1}/_{4}\mathrm{SE}^{1}/_{4}$ 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 current year.

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

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

REMARKS.--No estimated daily discharges. Records good. 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.

		DISCHAR	GE, CUBIC		SECOND,		EAR OCTOBER	1999 TO	SEPTEMBER	2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	15 14 14 13 13	2.1 1.7 1.9 2.1 1.7	2.1 2.7 10 11 5.6	1.8 1.8 2.1 2.2 2.1	2.9 3.3 3.6 4.8 3.9	1.5 1.8 1.7 1.4	12 14 13 6.2 4.1	6.2 4.8 3.9 2.8 2.6	60 59 68 71 74	61 67 73 79 73	34 31 20 18 8.4	8.8 6.1 22 5.2 2.4
6 7 8 9 10	15 21 19 18 18	1.4 1.6 1.7 1.7	4.1 5.3 5.2 4.0 3.7	2.5 2.1 1.9 1.7	2.2 2.2 3.3 1.9 1.8	1.3 1.1 1.7 1.4 .95	2.8 2.0 1.8 2.0 1.8		78 80 81 73 47	31 30 30 30 29	7.9 7.8 6.9 13	12 21 8.3 2.6 2.0
11 12 13 14 15		1.8 1.6 1.6 1.6				1.0 .86 .86 1.1 3.7		90 98 118 134 134	34 31 18 17 29	30 31 29 29 29	21 23 23 20 18	2.2 1.6 2.0 2.0 1.9
16 17 18 19 20	23 20 18 18 14			1.6 1.5 .98 1.4 1.9			3.5 1.5 .75 1.2 22			38 199 49 25 22	36 73 62 26 20	
21 22 23 24 25							24 26 28 5.6 1.9			27 23 26 30 33	25	9.6 17 31 35 13
26 27 28 29 30 31	2.2 2.4 3.2 2.1 2.1 2.4	6.6 3.4 2.5 2.3 1.6	1.8 1.8 1.7 1.6	3.4 9.2 4.5 3.5 3.1 7.0	1.1 1.0 1.1 .92	2.5 2.4 2.4 8.0 5.5	2.0 2.1 1.7 4.0 20	44 49 57 59 66 62	170 136 103 83 73	34 34 34 35 35 35	29 47 57 73 72 14	7.8 4.8 3.6 3.0 2.7
TOTAL		81.2 2.71 16 1.3 161	96.4 3.11 11 1.5 191	74.98 2.42 9.2 .98 149	66.92 2.31 5.4 .92 133	163.47 5.27 24 .86 324	213.15 7.11 28 .75 423			1330		274.3
STATIST	rics of MC			R WATER Y	EARS 198	7 - 2000	, BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)		2.79 4.54 1988 1.33 1989	1.81 3.71 1998 .88 1999	1.62 3.16 1994 .76 1995	1.99 3.85 1993 1.00 1988	5.05 16.2 1992 1.30 1989	11.4 34.8 1998 1.52 1989	30.9 66.4 2000 9.98 1989	51.2 82.4 1999 13.0 1989	39.2 79.8 1995 19.5 1990	34.0 49.6 1999 24.0 1992	20.6 47.9 1999 6.27 1987
SUMMARY	Y STATISTI	CS	FOR 1	.999 CALEN	DAR YEAR		FOR 2000 WA	TER YEAR		WATER YE	ARS 1987	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT ANNUAL 10 PERC 50 PERC	MEAN T ANNUAL ME ANNUAL ME T DAILY ME DAILY ME SEVEN-DAY TANEOUS PE TANEOUS PE	CAN CAN AN MINIMUM CAK FLOW CAK STAGE AC-FT) CDS CDS		9507.70 26.0 179 .73 .88 18860 84 11 1.0			7781.32 21.3 199 .75 1.1 469 4.77 15430 72 5.4 1.6			17.5 25.2 7.72 199 .16 .37 651 a5.52 12700 52 3.9 1.2		1999 1989 17 2000 12 1995 6 1995 4 1999 4 1999

a Maximum gage height, $6.08\ \mathrm{ft}$, $\mathrm{Aug}\ 4$, 1997.

06720990 BIG DRY CREEK AT MOUTH NEAR FORT LUPTON, CO

LOCATION.--Lat $40^{\circ}04^{\circ}09^{\circ}$, long $104^{\circ}49^{\circ}52^{\circ}$, in $\mathrm{NE}^{1}/_{4}\mathrm{SE}^{1}/_{4}$ 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.

		DISCHAR	GE, CUBIC	C FEET PER		MEAN V	EAR OCTOBER ALUES	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	44 42 43 45 44	32 30 28 28 28	12 12 12 17 17	e24 e24 e25 e25 e25	e26 e26 e26 e25 e25	e23 e24 23 24 44	122 92 122 94 64	32 13 14 12 17	34 32 30 26 20	29 26 21 17 14	20 20 19 17 16	29 20 15 16 15
6 7 8 9 10	42 47 54 51 50	28 28 28 27 27	14 13 14 16 21	e25 e25 e26 e26 e26	e25 e24 e23 e23 e23	36 32 28 34 34	43 32 25 22 21	17 21 28 55 33	19 16 17 14 20	14 16 15 15 24	16 15 14 13 12	13 12 16 16 13
11 12 13 14 15	50 49 42 41 40	27 27 27 24 25	26 27 27 26 28	e25 e25 e25 e25 e25	e23 e23 e24 e24 e24	34 34 35 30 23	14 12 13 9.4 15	34 40 29 34 40	23 22 19 21 17	42 28 33 41 44	11 9.9 9.8 11 12	11 9.9 9.1 8.3 7.7
16 17 18 19 20	44 65 58 58 54	25 24 25 26 26	24 24 25 25 26	e25 e25 e24 e24 e25	e24 e24 e24 e24 e24	32 72 45 37 43	31 38 27 16 8.1	36 63 251 110 54	13 23 42 29 27	42 135 165 47 30	11 17 100 61 32	7.5 7.3 7.2 6.5
21 22 23 24 25	50 48 40 36 35	26 35 49 35 30	25 26 25 e23 e24	e24 e24 e24 e24 e24	e24 e23 e23 e23 e23	45 49 45 34 28	12 12 34 39 21	46 35 28 48 75	24 19 20 22 30	36 36 31 28 26	18 18 20 19 20	35 18 27 98 66
26 27 28 29 30 31	33 32 32 32 31 31	31 34 29 21 14	e24 e24 e24 e24 e24 e24	e25 e25 e26 e26 e26 e26	e24 e23 e23 e23 	26 24 19 34 42 70	10 7.3 10 18 64	84 60 49 39 33	96 175 102 58 34	24 25 22 19 17 16	21 25 33 38 112 68	30 23 19 16 15
TOTAL MEAN MAX MIN AC-FT	1363 44.0 65 31 2700	844 28.1 49 14 1670	673 21.7 28 12 1330	773 24.9 26 24 1530	693 23.9 26 23 1370	1103 35.6 72 19 2190	1047.8 34.9 122 7.3 2080	1464 47.2 251 12 2900	1044 34.8 175 13 2070	1078 34.8 165 14 2140	828.7 26.7 112 9.8 1640	637.5 21.2 98 6.5 1260
							, BY WATER					
MEAN MAX (WY) MIN (WY)	40.9 64.3 1995 30.2 1992	28.6 35.6 1998 21.8 1997	23.1 35.2 1998 19.6 1994	22.7 32.1 1998 14.0 1995	22.2 33.6 1998 12.0 1995	32.6 50.1 1992 18.4 1993	55.1 79.1 1999 34.9 2000	54.8 85.5 1994 26.4 1993	55.7 117 1995 34.8 2000	47.7 111 1995 27.3 1999	46.4 75.1 1997 26.7 2000	47.9 67.0 1993 21.2 2000
SUMMARY	STATISTI	CS	FOR 1	999 CALEN	DAR YEAR	I	FOR 2000 WA	TER YEAR		WATER Y	EARS 1992	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN A		15322.8 42.0 442 5.8 8.7 30390 74 28 14	May 1 Apr 12 Feb 23		11549.0 31.6 251 6.5 7.7 299 7.52 22910 50 25 14	May 18 Sep 19 Sep 13 May 18 May 18		39.9 53.2 31.6 454 .3: 3.6 541 9.0 28880 72 29	Jul 2 Apr Sep Aug	1995 2000 31 1997 18 1994 3 1992 6 1997 6 1997

e Estimated.

06725450 ST. VRAIN CREEK BELOW LONGMONT, CO

LOCATION.--Lat $40^{\circ}09^{\circ}30^{\circ}$, long $105^{\circ}00^{\circ}48^{\circ}$, in $NW^{1}/_{4}NW^{1}/_{4}$ sec.9, T.2 N., R.68 W., Weld County, Hydrologic Unit 10190005, on right bank (revised) 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. Prior to Aug. 15, 1984, at site 150 ft downstream at same datum. Aug. 15, 1984 to Oct. 1, 1997 at site 70 ft downstream at same datum. Oct. 2, 1997 to Apr. 18, 2000 at site 100 ft upstream at same datum.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		DISCHAR	GE, CUBIC	: FEET PE	R SECOND, N DAILY	MEAN VA		1999 10	SEPTEMBE	K 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	122 116 112 109 108	98 76 75 73 71	80 64 76 93 79	e60 e59 e61 e68 e65	54 56 61 59 58	40 41 42 40 40	57 64 61 53 49	74 59 78 64 87	356 250 183 181 192	175 168 163 161 150	168 172 172 178 172	86 77 73 83 84
6 7 8 9 10	100 102 102 101 95	69 69 68 68	79 65 e59 e60 e61	e60 e58 e58 e58 e59	60 57 57 e58 e58	40 41 40 40 39	54 55 53 48 50	109 74 112 189 110	183 158 137 136 112	142 126 121 120 121	165 168 167 169 159	77 67 70 68 62
11 12 13 14 15	95 91 84 84 75	67 68 66 64 64	e60 e60 e59 e58 e59	e60 e59 e60 e61 66	e59 64 69 72 69	39 38 39 39 51	54 57 48 45 54	103 148 102 90 80	103 118 121 119 124	108 98 114 135 121	168 168 174 153 154	66 69 65 60 57
16 17 18 19 20	96 89 90 95 89	65 63 61 60 59	e58 e57 e58 e58 e59	64 63 63 63	63 64 69 66 55	55 48 43 42 42	66 72 e61 50 48	67 111 145 112 97	145 186 157 143 185	125 248 223 184 174	155 188 153 102 115	57 57 60 61 118
21 22 23 24 25	95 116 118 116 115	59 76 70 63 60	e60 e61 e63 e62 e62	56 53 50 52 56	54 55 51 48 48	44 43 44 44 43	49 49 57 50 45	111 99 89 108 195	160 132 128 119 140	161 148 126 137 179	109 107 93 88 90	88 90 110 147 112
26 27 28 29 30 31	112 112 109 108 111 106	70 67 62 64 70	e61 e60 e61 e62 e63 e60	51 58 51 50 48 53	46 46 48 44 	42 e40 41 43 51 68	46 58 57 48 75	310 303 234 215 387 424	180 196 187 176 160	183 181 184 170 163 163	91 89 93 94 92 89	100 86 81 71 62
TOTAL MEAN MAX MIN AC-FT	3173 102 122 75 6290	2031 67.7 98 59 4030	1977 63.8 93 57 3920	1803 58.2 68 48 3580	1668 57.5 72 44 3310	1342 43.3 68 38 2660	1633 54.4 75 45 3240	4486 145 424 59 8900	4867 162 356 103 9650	4772 154 248 98 9470	4255 137 188 88 8440	2364 78.8 147 57 4690
STATIST	ICS OF MC	NTHLY MEA	N DATA FO	OR WATER	YEARS 1977	- 2000,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	70.8 159 1985 45.5 1990	59.0 126 1985 34.5 1979	50.9 91.5 1985 30.8 1979	45.3 92.8 1980 25.7 1978	44.5 94.0 1980 27.9 1978	48.8 111 1980 28.9 1982	89.6 275 1998 27.5 1982	253 1155 1980 35.8 1977	381 1227 1995 63.3 1981	179 485 1995 100 1981	149 246 1999 88.9 1977	103 152 1982 53.7 1977
SUMMARY	STATISTI	CS	FOR 1	1999 CALE	NDAR YEAR	F	OR 2000 WA	TER YEAR		WATER YE	EARS 1977	- 2000
LOWEST ANNUAL S	MEAN ANNUAL MANNUAL ME DAILY ME DAILY MEA SEVEN-DAY	AN AN N MINIMUM		68508 188 2470 31 32	Apr 30 Feb 6 Feb 17		34371 93.9 424 38 39	May 31 Mar 12 Mar 8		123 257 54.8 2580 20 22	May 3 Dec 2 Dec 2	1995 1977 0 1995 8 1990 6 1990
INSTANTA ANNUAL I 10 PERCI 50 PERCI	ANEOUS PE ANEOUS PE RUNOFF (A ENT EXCEE ENT EXCEE ENT EXCEE	CAK STAGE CC-FT) CDS CDS		135900 516 95 33			462 4.07 68170 169 70 48	May 31 May 31		3600 6.87 88990 214 68 35		0 1999 0 1999

e Estimated.

06730200 BOULDER CREEK AT NORTH 75TH STREET NEAR BOULDER, CO

LOCATION.--Lat $40^{\circ}03^{\circ}06^{\circ}$, long $105^{\circ}10^{\circ}42^{\circ}$, in $SE^{1}/_{4}NW^{1}/_{4}$ 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.

_		DISCHAR	GE, CUBIC	C FEET PER		WATER YE MEAN VA	AR OCTOBER	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	76 70 65 64 60	98 75 94 73 84	65 69 70 62 60	68 53 56 54 54	51 53 54 53 52	51 52 60 54 53	66 56 57 51 58	138 114 114 167 139	344 446 436 387 345	112 113 117 111 106	233 239 235 232 238	96 97 89 89
6 7 8 9 10	63 66 67 55 47	82 87 92 73 63	69 65 64 62 64	45 49 50 48 47	51 51 51 51 52	52 44 35 37 34	46 42 39 38 41	160 184 239 216 242	279 302 199 241 216	97 94 112 153 221	235 229 225 221 219	78 75 84 106 94
11 12 13 14 15	48 52 47 48 50	66 59 60 62 59	61 61 61 57 59	47 50 51 50 48	51 49 49 50 53	36 35 35 41 53	40 41 49 56 80	229 215 180 189 182	182 172 163 134 149	234 220 220 207 197	201 174 185 192 173	92 85 93 87 73
16 17 18 19 20	73 66 69 69 70	61 60 59 54 62	54 54 57 53 55	48 51 53 58 56	52 58 56 50 48	57 51 43 45 49	94 85 69 66 69	184 206 192 163 157	153 168 134 118 210	254 410 226 211 145	172 185 202 199 177	64 58 54 63 126
21 22 23 24 25	65 65 64 66 61	64 75 76 64 60	57 64 61 63 58	54 52 50 51 55	51 51 55 56 54	47 45 45 42 42	67 69 80 69 70	141 136 130 133 139	166 136 132 123 128	104 72 71 90 99	144 144 135 142 137	89 109 102 96 81
26 27 28 29 30 31	65 63 70 69 75	90 73 69 70 67	62 66 61 68 66 40	57 59 51 50 46 49	46 50 54 54 	40 40 45 47 62 80	83 95 110 128 166	139 130 127 134 159 182	192 238 187 130 115	108 136 144 176 202 215	137 142 142 160 137 104	63 58 59 57 54
TOTAL MEAN MAX MIN AC-FT	1951 62.9 76 47 3870	2131 71.0 98 54 4230	1888 60.9 70 40 3740	1610 51.9 68 45 3190	1506 51.9 58 46 2990	1452 46.8 80 34 2880	2080 69.3 166 38 4130	5160 166 242 114 10230	6325 211 446 115 12550	4977 161 410 71 9870	5690 184 239 104 11290	2460 82.0 126 54 4880
STATIST	CICS OF MC	NTHLY MEA	N DATA FO	OR WATER Y	TEARS 1987	- 2000,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	49.2 77.8 1997 31.5 1987	55.7 81.7 1998 37.7 1993	52.0 74.9 1989 36.1 1988	49.4 68.3 1987 37.6 1988	47.9 61.3 1996 34.3 1992	52.8 90.6 1998 31.2 1989	90.6 236 1998 37.4 1989	194 465 1995 114 1991	308 868 1995 127 1992	220 492 1995 154 1988	143 235 1999 95.5 1991	75.9 111 1995 50.8 1992
SUMMARY	STATISTI	CS	FOR 1	1999 CALEN	IDAR YEAR	F	OR 2000 WAS	TER YEAR		WATER Y	EARS 1987	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		CAN CAN CAN MINIMUM CAK FLOW CAK STAGE AC-FT) CDS CDS		45664 125 1030 26 28 90570 284 66 38	Aug 5 Mar 21 Mar 17		37230 102 446 34 36 1180 7.00 73850 206 69 48	Jun 2 Mar 10 Mar 8 Jul 16 Jul 16		112 198 85.5 1450 20 23 1950 7.8 80970 225 64 37	Jun 1 Dec 2 Dec 2 May 1	1995 1989 3 1997 6 1987 3 1987 7 1995 7 1995

06730400 COAL CREEK NEAR LOUISVILLE, CO

LOCATION.--Lat 39°58'34", long 105°07'00", in $NW^1/_4SE^1/_4$ 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.--27.3 mi².

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

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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	4.3 4.3 4.2 3.9 2.7	5.5 5.0 2.9 2.5 2.4		2.6 2.6 2.8 2.4 2.6			5.6 7.0 5.9 5.4 6.5	3.9 3.7 3.9 3.9 2.2	7.7 7.3 6.7 6.7 7.2		1.2 1.4 1.3 2.2	2.8 2.1 1.5 1.6 1.8	
6 7 8 9 10	2.4 3.2 2.8 2.6 2.4			2.0 2.0 2.4 2.3 2.0				1.9 5.9 7.8 5.5 5.4	11 10 5.0		2.8 2.4 1.0 1.0	1.9 1.8 2.8 2.8 2.3	
11 12 13 14 15	2.4 2.5 2.4 2.1 1.9	2.6 2.5 2.5 2.4 2.4	3.1 2.9 3.3 3.0 2.4	2.4 2.5 2.2 2.1 2.4	2.2 2.1 2.2 2.3 2.1	2.3 2.4 2.4 2.3 3.0	2.6 2.4 2.5 2.4 3.1	4.7 2.9 2.3 1.7 1.8	2.7 2.2 2.9 2.9 2.2	1.1 1.0 .99 1.0	.67 .50 .49 .35	2.5 2.8 3.0 3.1 3.3	
16 17 18 19 20	5.5 3.5 4.5 4.4 3.5	2.3 2.0 2.6 3.1 3.6	3.1 3.2 3.0 2.7 2.9	2.4 2.3 2.2 2.3 2.2	2.2 2.1 3.3 2.6 2.7	6.0 3.5 3.3 3.5 3.2	4.3 4.0 3.1 2.6 3.4	1.9 2.2 1.6 .85 .93	.89 .92 .62 .48 .35	12 9.7 2.0 1.6 1.4	.87 .97 .63 .30	3.3 3.8 4.1 4.2	
21 22 23 24 25	3.5 3.5 3.5 3.5 3.4	3.7 5.9 4.9 4.0 3.9	3.2 2.9 3.2 2.9 3.0	2.5 2.5 2.4 2.3 2.4	2.9 2.7 3.0 3.2 2.8	4.2 3.6 3.8 3.8 4.0	3.3 3.7 4.4 4.1 3.4	.88 e3.7 e3.1 2.9 6.5		1.3 1.6 2.2 2.0 1.9	.31	1.7 2.7 4.8 6.0 3.5	
26 27 28 29 30 31	5.4			2.5 4.2 3.0 2.7 2.4 2.2			3.0 2.3 2.0 3.8 7.7	6.8 6.9 7.6 8.5 8.4	7.4 2.8 2.1 3.8 4.0	1.8 1.7 1.7 1.8 1.6	.46 1.8 2.2 1.6 1.9	2.9 2.5 2.5 2.4 2.4	
AC-F"I	210	203	198	75.8 2.45 4.2 2.0 150	140	206	244	8.5 .85 255	11 .35 249	70.70 2.28 12 .91 140	2.8 .21	92.9 3.10 10 1.5 184	
				OR WATER Y									
MEAN MAX (WY) MIN (WY)	3.09 3.85 1998 2.01 1999	2.81 3.42 2000 1.84 1999	2.64 3.23 2000 2.05 1999	2.15 2.45 2000 1.63 1999	2.10 2.44 2000 1.62 1999	3.75 6.17 1998 1.73 1999	20.3 36.1 1998 4.10 2000	20.8 34.9 1999 4.15 2000	9.61 13.2 1999 4.18 2000	3.38 4.25 1999 2.28 2000	6.21 14.5 1999 1.04 2000	2.53 3.10 2000 1.99 1997	
SUMMARY	STATISTI	ICS	FOR 1999 CALENDAR YEAR			F	FOR 2000 WATER YEAR				WATER YEARS 1997 - 2000		
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				3223.2 8.83 277 Apr 30 1.2 Jan 17 1.3 Jan 25 6390 20 3.1 1.5			1131.74 3.09 12 Jul 16 .21 Aug 21 .27 Aug 19 130 Jul 16 2.30 Jul 16 2240 5.5 2.6 1.2				6.62 8.48 1999 3.09 277 Apr 30 1999 .21 Aug 21 2000 .27 Aug 19 2000 a643 Apr 30 1999 3.42 Apr 30 1999 4790 13 2.6 1.4		

e Estimated. a From rating curve extended above 150 ${\rm ft}^3/{\rm s}$.

06730500 BOULDER CREEK AT MOUTH NEAR LONGMONT, CO

LOCATION.--Lat $40^{\circ}09^{\circ}08^{\circ}$, long $105^{\circ}00^{\circ}52^{\circ}$, in NW $^{1}/_{4}$ SW $^{1}/_{4}$ 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.

PERIOD OF RECORD.--March 1927 to September 1949, May 1951 to September 1955, October 1978 to September 1990, October 1991 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.--No estimated daily discharges. Records good. 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.

		DISCHAR	GE, CUBIC	FEET PER		VATER YE MEAN VA		R 1999 TO	SEPTEMBE	ER 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	85 83 79 77 68	111 116 109 97 105	91 98 95 103 93	67 81 76 102 79	69 69 71 69 71	67 66 66 78 76	96 71 84 66 69	41 22 15 22 11	274 354 304 257 217	14 16 16 17 16	6.7 7.3 7.7 6.5 6.1	21 21 16 13 16
6 7 8 9 10	72 94 102 86 73	99 103 116 99 89	97 95 92 86 88	80 67 70 67 69	71 71 67 68 68	72 68 59 59 57	61 54 41 41 41	7.5 8.4 12 40 47	153 169 84 77 67	15 12 11 18 26	7.3 8.0 6.6 5.8 7.9	12 10 9.8 17 20
11 12 13 14 15	73 73 65 60	87 83 84 84 85	86 84 88 84	68 70 72 70 68	65 67 67 66 65	56 60 60 61 66	41 42 46 39 55	33 34 26 18 16	34 21 16 16 12	27 14 10 12 15	8.5 9.5 9.2 14 11	11 10 11 11 8.0
16 17 18 19 20	71 87 77 88 78	84 87 92 91 83	81 78 80 79	68 69 73 75 76	69 72 70 68 66	82 92 77 70 71	77 68 38 13 25	17 52 126 54 43	15 23 25 15 39	10 557 105 29 10	6.7 11 36 24 22	7.5 7.6 7.4 12 94
21 22 23 24 25	71 78 86 89 83	91 112 118 104 100	80 81 89 82 83	72 70 69 65 68	67 69 68 71 71	67 68 69 63 62	35 33 38 37 29	39 40 31 26 46	40 21 16 13	4.3 4.0 5.5 6.3 5.1	17 14 13 7.7 7.3	42 31 43 56 47
26 27 28 29 30 31	92 89 85 89 92 94	117 116 106 97 94	84 82 84 85 91 69	68 76 70 66 67 72	66 67 69 69 	61 58 60 65 58 98	14 12 11 13 40	65 54 47 55 109 89	57 117 61 17 11	6.3 8.0 11 7.6 8.4 6.8	6.8 6.0 7.4 15 33 22	26 20 20 21 28
TOTAL MEAN MAX MIN AC-FT	2499 80.6 102 60 4960	2959 98.6 118 83 5870	2673 86.2 103 69 5300	2230 71.9 102 65 4420	1986 68.5 72 65 3940	2092 67.5 98 56 4150	1330 44.3 96 11 2640	1245.9 40.2 126 7.5 2470	2538 84.6 354 11 5030	1023.3 33.0 557 4.0 2030	371.0 12.0 36 5.8 736	669.3 22.3 94 7.4 1330
STATIST	ICS OF MC	NTHLY MEAI	N DATA FO	OR WATER Y	EARS 1927	- 2000,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	35.4 127 1985 .70 1955	44.3 109 1998 .48 1955	49.2 93.8 1939 1.16 1940	51.4 104 1980 2.94 1935	50.7 120 1980 2.75 1935	52.3 148 1983 2.58 1935	96.6 581 1942 1.15 1954	176 1101 1942 1.06 1955	194 976 1947 1.22 1954	45.7 367 1983 1.09 1954	24.2 164 1999 .55 1954	24.5 440 1938 .54 1954
SUMMARY	STATISTI	CS	FOR 1	.999 CALEN	DAR YEAR	F	OR 2000 W	ATER YEAR		WATER Y	EARS 1927	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	MEAN 'ANNUAL M ANNUAL ME 'DAILY ME DAILY MEA	CAN CAN IN CAN CAK FLOW CAK STAGE CC-FT) CDS		39526.1 108 1070 7.7 9.8 78400 233 68 19	May 1 Jul 21 Jul 8		21616.5 59.1 557 4.0 5.6 1230 4.3: 42880 95 66 9.9	Jul 17 Jul 22 Jul 21 Jul 17		70.6 220 3.9 2300 a.0 b4410 6.9 51140 130 36 2.0	Sep Dec Apr 1	1983 1954 3 1938 9 1934 11 1935 3 1938 3 1938

No flow at times many years. Site and datum then in use, from rating curve extended above $340~{\rm ft}^3/{\rm s}$, on basis of slope-area measurement of peak flow.

402231105291900 LAKE ESTES NEAR DAM NEAR ESTES PARK, CO

WATER-QUALITY RECORDS

LOCATION.--Lat. $40^{\circ}22'31"$, long $105^{\circ}29'19"$, in $SE^{1}/_{4}$ $NW^{1}/_{4}$ sec.29, T.5 N, R.72 W., Larimer County, Hydrologic Unit 14010001, 1 mi southeast of Estes Park.

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

REMARKS.--Samples were collected near-surface and near-bottom near Olympus Dam.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

			DATE	TIME	SAM- PLING DEPTH (FEET (00003	ANCE) (US/CM	WHOLE FIELD (STAND ARD) UNITS	TEMPER- - ATURE WATER	SOLVEI)		
			MAY 31 31 31 31 31 31 AUG	0945 0946 0947 0948 0949 0950 0951	.10 5.00 10.0 15.0 20.0 25.0 30.0 37.0	21 22 23 21 21 22 19 18	7.5 7.4 7.4 7.4 7.4 7.4 7.4	10.5 9.6 9.4 8.6 8.5 8.4 7.7	7.8 7.8 7.8 8.0 7.9 7.8 8.0 8.0			
			11 11 11 11 11 11	0930 0931 0932 0933 0934 0935 0936	.10 5.00 10.0 15.0 20.0 25.0 30.0 34.0	43 43 43 42 42 41 40 39	7.8 7.8 7.7 7.7 7.6 7.5 7.3	17.8 17.8 17.5 17.4 17.2 17.0 16.2	6.4 6.2 6.0 6.0 5.9 5.0 2.7			
			08 08 08 08 08 08	0930 0931 0932 0933 0934 0935 0936	.10 5.00 10.0 15.0 20.0 25.0 30.0 34.0	43 43 43 43 43 43 43	7.5 7.5 7.5 7.5 7.4 7.4 7.3	15.3 15.3 15.2 15.2 15.1 15.1 14.9	7.4 7.4 7.3 7.3 7.0 6.9 6.3 6.0			
DATE	TIME	CON- DUCT- ANCE (US/CM)	(STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	DISK)	SOLVED (MG/L)	(COLS./ 100 ML)	TOTAL (MG/L	DIS- SOLVED (MG/L AS CA)	DIS- SOLVED (MG/L AS MG)	(MG/L AS NA)	SODIUM AD- SORP- TION RATIO
MAY 31 31 AUG	1000 1015	21 18	7.5 7.4	10.5 7.6	75.0 	7.8 8.0	84	9 8	2.64 2.37	.58 .54	1.1	.2
11 11 SEP	0945 1000	43 39	7.8 7.3	17.8 15.0	119 	6.4 2.7	K12 	18 18	5.47 5.34	1.04 1.02	1.8 1.8	.2
08	0945 1000		7.5 7.3	15.3 14.8	96.0 	7.4 6.0	K15 	19 19	5.72 5.70	1.12 1.11	1.8 1.8	.2
DATE	SIUM, DIS- SOLVED (MG/L AS K)	LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	TUENTS,	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	DIS- SOLVED (MG/L AS N)	DIS- SOLVED (MG/L AS N)	DIS- SOLVED (MG/L AS N)
J	. 4 . 5	10 8	1.4 1.3	.4	<.1 <.1	4.4 4.1	23 22	17 16	.03	<.010 <.010	.091 .081	<.020 <.020
AUG 11 11	.5 .6	20 19	2.0 2.0	.4	.1	4.5 4.5	31 34	28 28	.04	<.001 <.001	.006 .014	.002
SEP 08 08	.7 .6	21 21	2.2	.5	.1	4.9 5.0	41 40	30 30	.06 .05	.001	.023 .027	.015

402231105291900 LAKE ESTES NEAR DAM NEAR ESTES PARK, CO--Continued

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70954)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)
MAY 31 31 AUG	.22	.016	E.004 E.004	<.010 <.010	.9	<.1	4.8 5.3	4 4	<2 <2	<16 <16	<.1 <.1	<14.0 <14.0
11 11	. 25 . 25	.010 .017	<.006 <.006	<.001 .003	9.7	<.1	3.4 3.5	6 6	<2 <2	<16 <16	<.1 <.1	<.8 <.8
SEP 08 08	.26 .30	.015 .021	<.006 E.005	<.001 .001	3.3	E.1 	3.9 3.8	6 7	<2 <2	<16 <16	<.1 <.1	<.8 <.8
DATE	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	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)
MAY 31 31 AUG	<13 <13	<10 <10	60 90	<100 <100	<3.9 <3.9	6 7	<34 <34	<40 <40	<1 <1	14.5 12.8	<10 <10	<20 <20
11 11	<1 <1	6 <1	30 40	<1 <1	2.8	2 <1	6 <1	2 <1	<1 <1	28.1	14 <1	1 <1
SEP 08 08	<1 <1	<1 <1	30 70	<1 <1	.8	<1 5	<1 <1	<1 <1	<1 <1	34.6 34.3	<1 <1	1 1

06734900 OLYMPUS TUNNEL AT LAKE ESTES, CO

WATER-OUALITY RECORDS

LOCATION.--Lat $40^{\circ}22^{\circ}30^{\circ}$, long $105^{\circ}29^{\circ}13^{\circ}$, 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. Note:-- The following remark codes may appear in the data tables below: e, estimated; E, estimated laboaratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DIS-CHARGE. SODIUM POTAS-SPE-WATER HARD-MAGNE-INST. CIFIC WHOLE NESS CALCIUM SIUM, SODIUM, AD-SIUM, CUBIC CON-FIELD TEMPER-OXYGEN, TOTAL DTS-DTS-DTS-SORP-DTS-DIS-SOLVED SOLVED SOLVED SOLVED (MG/L DATE TIME PER ANCE ARD WATER SOLVED AS (MG/L (MG/L (MG/L RATIO (MG/L SECOND (US/CM) UNITS) (DEG C (MG/L) CACO3 AS CA) AS MG AS NA) (00061) (00095) (00400)(00010) (00300) (00900) (00915)(00925)(00930) (00931) (00935) JAN 10... 0930 421 45 8.4 .0 11.9 21 6.20 1.23 1.9 .2 .6 MAY 0930 32 08... 506 7.7 6.5 8.7 13 3.95 .85 1.5 . 2 .6 ANC: SOLIDS SOLIDS NTTRO-NTTRO-NTTRO-UNFLTRD CHLO-FLUO-SILICA, SOLIDS, SOLIDS, GEN, RESIDUE SUM OF GEN, GEN, TIT 4.5 SULFATE RIDE, RIDE, DIS-AT 180 CONSTI-DTS-DIS-NITRITE NO2+NO3 AMMONTA SOLVED DEG. C SOLVED SOLVED TUENTS, LAB DIS-DIS-DIS-DIS-DIS-DIS-(MG/L SOLVED SOLVED SOLVED (MG/L DTS DTS-(TONS (TONS SOLVED SOLVED SOLVED DATE AS (MG/L (MG/L (MG/L AS SOLVED SOLVED PER PER (MG/L (MG/L (MG/L CACO3) AS SO4) ÀS CL AS F) STO2) (MG/L) (MG/L) AC-FT DAY AS N) ÀS N) AS N) (00945)(00940) (00950)(70301) (70303)(70302)(90410)(00955)(70300)(00613)(00631)(00608) JAN 10... 22 2.0 .5 5.6 41 31 .06 <.050 .035 <.1 46.6 <.010 MAY 08... 14 2.0 .7 <.1 5.3 35 24 .05 47.8 <.010 .065 <.020 NTTRO-PHOS-PHOS-CHRO-GEN,AM-PHORUS BERYL-CADMITUM MONTA + PHOS-PHORUS ORTHO. BARTUM. LIUM, BORON. MIUM, COBALT, COPPER. ORGANIC PHORUS DIS-DIS-DIS-DIS-DIS-DIS-DIS-DIS-DIS-SOLVED SOLVED SOLVED TOTAL TOTAL SOLVED SOLVED SOLVED SOLVED SOLVED SOLVED (MG/L (UG/L (UG/L DATE (MG/L (MG/L (MG/L (UG/L (UG/L (UG/L (UG/L (UG/L AS N) AS P) AS P) AS P) AS RA) AS RE) AS B) AS CD) AS CR) AS CO) AS CII) (00625) (00665) (00666) (00671) (01005) (01010) (01020) (01025) (01030) (01035) (01040) JAN 10... . 21 <.050 <.050 <.010 6 <2 <16 <8.0 <14.0 <13 <10 08... .26 <.050 <.050 <.010 5 < 2 <16 <8.0 <14.0 <13 <10 MANGA-NESE, MANGA-MOLYB-STRON-VANA-LITHIUM NICKEL, SILVER, IRON, LEAD, TOTAL NESE, DENUM, TIUM, DIUM, ZINC, DIS-SOLVED DIS-SOLVED DIS-SOLVED DIS-SOLVED DIS-SOLVED DIS-RECOV-DIS-DTS-DIS-DIS-SOLVED SOLVED SOLVED SOLVED SOLVED ERABLE DATE (UG/L AS MN) AS AG) AS FE) AS PB) AS LI AS MN) AS MO) AS NI) AS SR) AS V) AS ZN) (01046) (01049) (01130) (01055) (01056) (01060) (01065) (01075) (01080) (01085) (01090) JAN <3.9 8 <7 10... 2.0 <100 E2 < 34 < 40 35.1 <10 < 2.0 9 08... 80 <100 < 3.9 11 E18 <40 <7 20.9 <10 <20 MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DIS-DIS-CHARGE. SDE-CHARGE SDE-INST. CIFIC CIFIC INST. CUBIC CUBIC CON-TEMPER-COM-TEMPER-DUCT-ATURE DUCT-ATURE FEET FEET TIME DATE PER ANCE WATER DATE TIME PER ANCE WATER (DEG C) SECOND (US/CM) (DEG C) SECOND (US/CM) (00061) (00095) (00010) (00061) (00095) (00010) ATTG SEP 0900 553 43 16.0 12... 1400 555 47 14.5 30...

06737500 HORSETOOTH RESERVOIR NEAR FORT COLLINS, CO

LOCATION.--Lat $40^\circ36^\circ00^\circ$, long $105^\circ10^\circ06^\circ$, in NW $^1/_4$ SW $^1/_4$ 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 two 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 (AT 0800) FOR CURRENT YEAR.--Maximum contents, observed, 116,600 acre-ft, Mar. 4, 5, elevation, 5,412.70 ft; minimum, observed, 17,500 acre-ft, Sept. 30, elevation, 5,335.25 ft.

MONTHEND ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30. Oct. 31. Nov. 30. Dec. 31.	5,412.87 5,404.72 5,403.74 5,408.10	116,900 102,700 101,100 108,500	- -14,200 -1,600 +7,400
CAL YR 1999	-	-	+35,920
Jan. 31. Feb. 29. Mar. 31. Apr. 30. May 31. June 30. July 31. Aug. 31. Sept. 30.	5,407.80 5,412.25 5,412.08 5,401.10 5,393.04 5,390.97 5,376.69 5,342.97 5,335.25	108,000 115,800 115,500 96,700 83,900 80,800 60,500 23,500 17,500	-500 +7,800 -300 -18,800 -12,800 -3,100 -20,300 -37,000 -6,000
WTR YR 2000	-	-	-99,400

06737500 HORSETOOTH RESERVOIR NEAR FORT COLLINS, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1969 to current year.

DATE

OCT 20... 20...

MAY 04... 04... AUG 17...

REMARKS.--Samples collected at various depths near north end of reservoir near Soldier Canyon Dam.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

	DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)		
	20 20 20 20 20 20 20 20 20 20 20 20	0915 0916 0917 0918 0919 0920 0921 0922 0923 0924 0925 0926	.10 5.00 10.0 15.0 20.0 25.0 30.0 40.0 50.0 60.0 70.0	59 59 59 59 59 59 59 59 61 62	8.1 8.1 8.1 8.1 8.0 8.0 8.0 8.0	12.9 12.9 12.9 12.9 12.9 12.9 12.9 12.9	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.4 5.0 4.6		
	04 04 04 04 04 04 04 04 04 04 04 04 04 04 04 04	0915 0916 0917 0918 0919 0920 0921 0922 0923 0924 0925 0926 0927 0928 0929 0930	100 10.0 15.0 20.0 25.0 30.0 40.0 50.0 60.0 70.0 80.0 90.0 100 110 120 135	64 64 64 64 63 62 62 62 62 61 61 61 61 61	7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	12.7 11.8 11.8 11.6 11.2 9.8 8.6 7.7 7.6 7.5 7.2 6.9 6.7 6.4 6.4	9.1 9.2 9.3 9.3 9.3 9.3 9.3 9.2 9.2 9.1 9.1 9.0		
A	UG 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17	0905 0906 0907 0908 0909 0910 0911 0912 0913 0914 0915 0916 0917	.10 5.00 10.0 15.0 20.0 25.0 30.0 40.0 50.0 60.0 70.0 80.0 90.0	66 66 66 66 65 63 62 60 58 59 60	7.4 7.5 7.5 7.5 7.4 7.4 7.3 7.3 7.2 7.2 7.2	22.7 22.1 22.1 22.1 21.8 21.3 19.8 18.2 15.5 13.9 12.8 12.3 12.3	6.4 6.4 6.3 6.2 5.7 5.3 4.7 4.6 4.9 4.9		
TIME	SPE- CIFIC CON-	PH WATER WHOLE FIELD	TEMPER-	TRANS- PAR- ENCY	OXYGEN.	COLI- FORM, FECAL,	HARD- NESS TOTAL	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	DIS-
0940 0955		8.1 7.8	12.9 10.4	154	7.5 4.6	<1		7.95 8.20	1.32 1.41
0955		7.0	12.7 6.4	96.0 	9.1 9.0	<1	28 27	8.68 8.42	1.46 1.43
0930 0945	66 60	7.4 7.1	22.7 12.3	44.0	6.4 4.6	<1 	29 27	9.05 8.28	1.48 1.46

06737500 HORSETOOTH RESERVOIR NEAR FORT COLLINS, CO--Continued

DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)
OCT 20 20	2.4 2.5	.2	.6 .6	26 26	3.5 3.6	1.3 1.3	.1	2.7 4.7	41 49	35 39
04 04 AUG	2.4 2.4	.2	.6 .6	28 27	4.0 3.3	1.5 1.3	.1	3.2 3.6	42 44	39 38
17 17	2.3 2.2	.2	.8	29 27	3.1 2.6	.9 1.0	.1	2.5 4.1	43 43	38 38
DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70954)
OCT 20 20	.06	<.010 <.010	<.050 .139	<.020 <.020	.18 .19	<.050 <.050	<.050 <.050	<.010 .013	1.1	<.1
MAY 04 04 AUG	.06 .06	<.010 <.010	.070 .092	<.020 <.020	.15 .70	<.008 E.004	<.006 .014	<.010 <.010	1.0	E.1
17 17	.06 .06	.001 .001	.018 .176	.017 .002	.23 .17	.018 .021	E.004 .009	.001	1.8	.1
DATE	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)
OCT 20 20 MAY	4.4 4.7	18 17	<2 <2	E7 <16	<.1 <.1	<14.0 <14.0	<13 <13	<10 <10	E10 20	<100 <100
04 04 AUG	4.0 3.5	19 18	<2 <2	E10 E7	<.1 <.1	<14.0 <14.0	<13 <13	<10 <10	E10 10	<100 <100
17 17	3.7 3.9	24 19	<2 <2	<16 <16	<.1 <.1	E.5 E.7	<1 <1	2 3	E10 10	<1 <1
DAT		S- REC WED ERA /L (UG LI) AS	E, MAN AL NES OV- DI BLE SOL /L (UG MN) AS	E, DEN S- DI VED SOL /L (UG MN) AS	J/L (UG MO) AS	- DI VED SOL /L (UG NI) AS	S- DI VED SOL /L (UG AG) AS	UM, DIU S- DI VED SOL I/L (UG SR) AS	M, ZIN S- DI VED SOL (/L (UG V) AS	S- VED /L ZN)
OCT 20 20										
MAY 04 04 AUG			-							
17 17	1.		3 28		1 < 1 <				1 <	2

$403147105083800\,$ Horsetooth reservoir near fort collins, co

WATER-QUALITY RECORDS

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

DATE

OCT 20...
20...
MAY 04...
04...
AUG 17...

REMARKS.--Samples were collected near surface and near bottom, near south end of reservoir near Spring Canyon Dam.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		TIME	(00003)		ARD UNITS) (00400)	WATER (DEG C) (00010)	DIS- SOLVED (MG/L) (00300)		
OC MZ	20 20	1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035	.10 5.00 10.0 15.0 20.0 25.0 30.0 40.0 50.0 60.0 70.0 80.0 90.0 100 110 120 130	60 60 60 60 59 60 60 61 62 63 64 65 65 66	8.0 8.0 8.0 7.9 7.9 7.9 7.9 7.9 7.7 7.7 7.6 7.5	12.7 12.6 12.6 12.6 12.6 12.6 12.5 12.5 12.1 10.7 10.0 9.3 8.8 8.6 8.5 8.4	7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.5 7.3 5.4 4.2 3.6 3.0 2.6		
	04 04 04 04 04 04 04 04 04 04 04 04 04 04	1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028	5.00 10.0 15.0 20.0 25.0 30.0 40.0 50.0 60.0 70.0 80.0 95.0	64 63 62 62 62 62 62 62 62 62 62 62 61	7.8 7.8 7.8 7.8 7.8 7.8 7.7 7.7 7.7 7.7	10.7 10.0 9.2 8.8 8.3 8.0 7.9 7.7 7.5 7.4 6.8 6.2 6.1	9.4 9.5 9.6 9.5 9.2 9.2 9.2 9.2 9.2 9.2		
AU	JG 17 17 17 17 17 17 17 17 17 17	1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055	.10 5.00 10.0 15.0 20.0 25.0 30.0 40.0 50.0 60.0 64.0	72 72 73 73 75 78 68 64 64 66 66	7.4 7.4 7.4 7.3 7.3 7.2 7.2 7.2 7.2	21.9 21.9 21.8 21.6 21.2 18.1 11.2 8.8 8.2 8.1	6.6 6.4 6.3 6.0 5.6 4.2 4.6 4.7 4.1 3.9		
TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	C.TGT.G	TEMDED_	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OVVCEN	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
1040 1055	60 67	8.0 7.5	12.7 8.4	112	7.6 1.4	<1	26 29	8.05 8.94	1.35 1.50
1035 1050	64 61	7.8 7.6	10.7 6.1	89.0 	9.4 8.9	K1 	28 27	8.68 8.45	1.48 1.44
1100 1115	72 66	7.4 7.2	21.9 8.1	30.0	6.6 3.9	K1 	32 30	10.1 9.41	1.60 1.65

403147105083800 HORSETOOTH RESERVOIR NEAR FORT COLLINS, CO--Continued

DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)
OCT 20 20 MAY	2.5	.2	.6 .7	26 28	3.4 4.1	1.4 1.4	.1	2.7 5.2	42 48	36 42
04 04	2.4	.2	.6 .6	28 28	3.6 3.3	1.8 1.3	.1	3.3 3.6	44 40	39 38
AUG 17 17	2.4 2.5	.2	.6 .7	40 30	4.3 2.8	.9 1.2	.1	2.6 4.4	47 47	47 42
DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70954)
OCT 20 20	.06	<.010 <.010	<.050 .202	<.020 <.020	.20	<.050 .052	<.050 E.039	<.010 .018	1.2	<.1
04	.06 .05	<.010 <.010	.055	<.020 <.020	.16 .15	E.006 E.004	<.006 E.003	<.010 <.010	1.8	E.1
AUG 17 17	.06	.001 .001	.011 .216	.011	.24	.025	E.003 .014	.003	2.5	<.1
DATE	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)
OCT 20 20	4.6 4.3	19 16	<2 <2	E10 <16	<.1 <.1	<14.0 <14.0	<13 <13	<10 <10	10 30	<100 <100
MAY 04 04 AUG	3.5 3.6	19 18	<2 <2	E9 E8	<.1 <.1	<14.0 <14.0	<13 <13	<10 <10	10 10	<100 <100
17 17	4.0 3.7	29 22	<2 <2	<16 <16	<.1 <.1	E.4 E.6	<1 <1	2 3	10 10	<1 <1
DAT	SOL	S- REC VED ERA /L (UG LI) AS	E, MAN AL NES OV- DI BLE SOI //L (UG MN) AS	SE, DEN SS- DI VED SOL J/L (UG MN) AS	G/L (UG MO) AS	S- DI LVED SOI S/L (UC NI) AS	IS- DI LVED SOL B/L (UG AG) AS	UM, DIU S- DI WED SOL K/L (UG SR) AS	M, ZIN S- DI VED SOL J/L (UG V) AS	S- VED /L ZN)
OCT 20 20	<3. <3.									
MAY 04 04	<3. E2.									
17 17	1. 1.					<1 <1 <1 <1			1 <	1

06738000 BIG THOMPSON RIVER AT MOUTH OF CANYON, NEAR DRAKE, CO

LOCATION.--Lat $40^{\circ}25^{\circ}18^{\circ}$, long $105^{\circ}13^{\circ}34^{\circ}$, in $SW^{1}/_{4}SW^{1}/_{4}$ 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, and concrete control. 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 non-estimated days in Dec., Jan., and also Apr. 15, June 24, Aug. 16, Sept. 28, which are fair, and 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; 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, and Dille tunnel since Apr. 20, 1959, 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, 532 ft³/s at 0615 May 30, gage height, 3.63 ft; minimum daily, 26 ft³/s, Nov. 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	55	41	41	e39	38	42	79	366	71	86	179
2	98	46	42	40	e37	40	42	67	295	69	86	157
3	98	45	42	37	e36	37	40	51	215	68	88	158
4	95	42	39	37	e38	39	43	100	162	68	84	138
5	93	44	e32	38	e39	39	43	163	158	57	87	124
6	93	42	e42	e38	e39	39	41	271	156	49	82	122
7	95	41	40	e37	e39	39	46	462	138	54	81	115
8	87	42	e40	e37	e38	39	41	478	115	61	83	105
9	67	42	e27	e38	e39	39	44	460	99	57	85	111
10	58	40	38	e37	e39	36	45	403	92	68	79	111
11	54	43	41	e37	e38	36	45	384	125	75	78	102
12	53	41	e39	e36	e39	39	45	156	109	85	77	92
13	50	40	e43	e36	e39	38	44	117	162	89	78	92
14	50	48	39	e36	e39	39	50	140	173	88	79	83
15	47	49	30	e39	40	e39	51	103	139	86	85	82
16	47	44	36	e42	42	37	62	182	167	93	99	78
17	43	40	48	e38	38	41	69	181	201	88	110	104
18	51	40	44	e38	37	40	70	202	187	89	120	120
19	56	39	39	e36	36	39	92	190	144	84	122	84
20	44	39	e37	e38	36	43	97	215	116	85	134	77
21	47	41	41	e37	37	38	99	208	271	88	99	83
22	47	43	e39	e35	36	40	103	212	192	89	96	95
23	56	29	42	e35	36	39	173	266	72	88	101	135
24	56	26	40	e35	37	39	195	158	65	82	101	163
25	57	42	40	e36	36	41	118	238	67	84	106	272
26	55	59	40	e36	36	41	62	241	77	86	110	249
27	71	48	42	e36	37	47	52	247	87	82	136	157
28	68	44	42	e36	37	40	51	347	73	78	145	140
29	61	42	41	e36	37	35	54	323	65	78	141	140
30	55	41	41	e36		38	55	336	59	84	145	139
31	54		42	e38		43		387		85	175	
TOTAL	2010	1277	1229	1152	1096	1217	2014	7367	4347	2408	3178	3807
MEAN	64.8	42.6	39.6	37.2	37.8	39.3	67.1	238	145	77.7	103	127
MAX	104	59	48	42	42	47	195	478	366	93	175	272
MIN	43	26	27	35	36	35	40	51	59	49	77	77
AC-FT	3990	2530	2440	2280	2170	2410	3990	14610	8620	4780	6300	7550
AC-FT	3990	∠ 530	∠440	2280	Z1/U	2410	3990	14010	8020	4/80	0300	/550

CAL YR 1999 TOTAL 35820 MEAN 98.1 MAX 1670 MIN 26 AC-FT 71050 WTR YR 2000 TOTAL 31102 MEAN 85.0 MAX 478 MIN 26 AC-FT 61690

e Estimated.

06741510 BIG THOMPSON RIVER AT LOVELAND, CO

LOCATION.--Lat $40^{\circ}22^{\circ}43^{\circ}$, long $105^{\circ}03^{\circ}38^{\circ}$, in $SE^{1}/_{4}SE^{1}/_{4}$ 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 Farmers Ditch diversion.

DRAINAGE AREA. -- 535 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- July 1979 to current year.

GAGE.--Water-stage recorder with satellite telemetry. 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.

	J	DISCHAR	GE, CUBIC	FEET PER		WATER YE MEAN VA		R 1999 TO	SEPTEMBE	R 2000	5	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e15 e15 e14 e13 e12	12 21 21 20 19	16 16 15 14 14	30 31 29 28 24	27 32 43 33 33	28 28 28 28 27	6.3 6.9 6.6 6.6	42 46 46 79 91	55 57 67 88 91	53 52 44 49 60	28 33 36 33 27	89 95 89 74 62
6 7 8 9 10	e12 e11 e12 e11 e10	19 19 19 20 20	13 36 39 30 22	28 29 32 26 25	33 33 34 31 29	28 25 13 11 10	6.5 6.1 6.1 6.0 5.8	76 112 158 143 94	76 84 93 87 83	60 55 60 52 52	32 34 37 38 35	66 63 59 48 40
11 12 13 14 15	e9.0 e6.0 5.9 5.9 6.0	18 18 18 18	30 27 28 34 26	28 29 29 28 29	30 32 32 30 30	8.8 9.0 8.8 8.5	5.7 5.7 5.7 5.7 5.8	107 87 69 74 70	80 66 62 47 41	54 60 60 61 53	28 25 20 22 30	39 47 46 48 58
16 17 18 19 20	13 6.3 5.6 5.8 4.8	18 17 15 21 19	24 34 37 32 27	30 35 32 34 36	28 31 30 30 31	14 13 12 11 12	5.5 6.7 7.4 18	73 95 149 95 31	56 76 60 47 52	69 76 52 43 47	41 67 73 66 53	57 54 53 68 91
21 22 23 24 25	6.9 7.6 6.9 6.5 6.7	15 19 17 16 15	33 35 33 31 31	35 37 31 32 40	35 34 32 28 27	14 12 11 12 12	18 19 17 27 55	e3.5 e3.7 47 102 111	80 87 63 61 68	54 53 50 45 44	69 65 57 42 42	83 89 101 174 189
26 27 28 29 30 31	13 25 21 11 11 9.1	17 17 16 16 17	30 32 33 31 32 30	36 35 25 23 24 23	24 26 32 29 	12 27 34 14 6.3 7.2	48 34 30 31 33	81 75 71 65 95	79 79 53 45 45	46 43 36 34 24 19	51 78 89 81 85 81	114 35 11 12 25
TOTAL MEAN MAX MIN AC-FT	318.0 10.3 25 4.8 631	535 17.8 21 12 1060	865 27.9 39 13 1720	933 30.1 40 23 1850	899 31.0 43 24 1780	496.6 16.0 34 6.3 985	459.8 15.3 55 5.5 912	2477.2 79.9 158 3.5 4910	2028 67.6 93 41 4020	1560 50.3 76 19 3090	1498 48.3 89 20 2970	2079 69.3 189 11 4120
								YEAR (WY)				
MEAN MAX (WY) MIN (WY)	29.5 111 1998 6.15 1988	22.3 95.8 1985 3.96 1982	13.6 51.9 1998 2.86 1993	17.8 95.5 1998 2.55 1994	17.6 129 1998 2.42 1993	13.3 61.4 1998 2.19 1996	46.8 292 1980 4.49 1981	237 2078 1980 4.07 1981	307 1493 1983 25.0 1982	121 418 1995 29.9 1987	75.6 153 1981 29.0 1997	37.4 83.9 1982 16.6 1990
SUMMAR	Y STATIST	ICS	FOR 1	.999 CALENI	DAR YEAR	F	OR 2000 W.	ATER YEAR		WATER YEA	RS 1979	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT ANNUAL 10 PERC 50 PERC	MEAN F ANNUAL M ANNUAL ME F DAILY MEA DAILY MEA	EAN EAN AN C MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		34393.8 94.2 e3700 3.3 3.5 68220 192 22 4.6	Apr 30 Apr 5 Mar 31		14148.6 38.7 189 e3.5 5.7 339 2.7 28060 31 8.7	Sep 25 May 21 Apr 10 Sep 25		78.5 321 28.4 4240 .80 6970 a,b10.10 56850 139 20 3.4	May May 1 May 1 Apr 3 Apr 3	1980 1990 1 1980 1 1981 0 1981 0 1980 30 1980

e Estimated. a From high-water mark. b Maximum gage height, 10.48 ft, Apr 30, 1999.

06741510 BIG THOMPSON RIVER AT LOVELAND, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1979 to current year.

75

43

AUG 07...

SEP 18...

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REMARKS.--Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		W	ATER-QUAL	ITY DAT	A, WA	rer ye	AR O	CTOBE	R 199	99 TO	SEPT	EMBE	R 200	00					
DATE	TIME	DICHARCE INSTEAM OF THE PER SECTION OF THE PER SECT	GE, SPE F. CIF IC CON ET DUC R ANC OND (US/	- W FIC W I- F TT- (S E CM) U	PH ATER HOLE TELD TAND- ARD NITS) 0400)	TEMP ATU WAT (DEG (000	RE ER C)	OXYG DI SOL (MG (003	S- VED /L)	HARI NES TOT (MG AS CAC	S AL /L O3)	CALC DIS SOL (MG AS (009	- VED /L CA)	DI	UM, S- VED /L MG)	SODI DIS SOLV (MG AS	- ED /L NA)	SOD: AI SORI TIC RAT:	D- P- ON IO
OCT		_		_			_	_	_		_				_				
12 NOV	0930	6	.2 129	0	8.1	12.	5	7.	6	59	0	141		56.	6	-	-		-
08 DEC	1015	20	103	0	8.2	8.	0	10.	0	49	0	134		38.	4	-	_		-
06	1100	12	104	0	8.4	3.	0	11.	3	52	0	142		40.	7	-	-		-
JAN 10 FEB	1215	19	66	6	8.5	1.	0	13.	0	30	0	81	. 2	23.	2	23.	6	. 6	6
07	0930	30	47	2	8.5	1.	5	12.	1	22	0	60	. 4	16.	0	-	-		_
MAR 06	1130	28	51	.7	8.1	8.	0	10.	2	23	0	63	.0	17.	2	-	_		_
APR 10	1245	5	.9 107	0	8.0	13.	5	10.	9	47	0	118		43.	4	-	_		_
MAY 08	1245	188	26	4	8.5	10.	0	9.	1	9	9	22	.3	10.	6	-	_		_
JUN 05	0845	111	31	.8	8.5	12.	5	12.	1	12	0	26	. 0	13.	0	_	_		_
JUL 10	0915	48	46	4	8.1	20.	0	7.	7	19	0	46	. 9	17.	4	17.	0	. !	5
AUG 07	1110	32	46		8.2	21.		9.		18		43		17.			_		_
SEP 18	0915	58			8.0	16.		8.		8		22		6.					
10	0915	50	20	16	0.0	10.	U	٥.	4	0	U	22	. 0	0.	12	_	_		_
DATE	UNE TIT I (N P CP	ANC FLTRD F 4.5 LAB MG/L AS ACO3)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVE (MG/L AS CL	R: I S(I (!) A:	LUO- IDE, DIS- DLVED MG/L S F)	DI SO (M A SI	ICA, S- LVED G/L S O2) 955)	AT 1 DEC D1 SOI	IDUE 180 G. C IS- LVED G/L)	GE NITR DI	S- VED /L N)	MO2- DI SOI (MO AS	IS- LVED 3/L	AMM D SO (M AS	TRO- EN, IONIA IS- LVED IG/L N)	SO (MO		
OCT 12	1	178							-		<.0	10	.38	33	<.	020	<.	050	
NOV 08	1	L79							-		<.0	10	.53	38	<.	020	<.	050	
DEC 06	1	L89							-		<.0	10	.78	39		021	<.	050	
JAN 10	1	L23	223	8.6		.3	8	.1	48	30	<.0	10	.63	35	<.	020	<.	050	
FEB 07		90							-		<.0	10	. 34	19	<.	020	<.	050	
MAR 06		98									<.0	10	. 30)4		041	<.	050	
APR 10	1	156							-		<.0	10	. 30	06		029	<.	050	
MAY 08		36							-		<.0		.13			021		050	
JUN 05		36							_		<.0		.13			024		050	
JUL			146	1.0		2	4	2	2.0) E									
AUG		76	146	4.6		.2	4	.3	31)5	<.0	10	.13			020		050	

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.065

.067

<.020

<.020

<.010

<.010

<.050

<.050

06741510 BIG THOMPSON RIVER AT LOVELAND, CO--Continued

DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	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)
OCT 12	<.010			<.1				1	E1	170
NOV 08	<.010	==		<.1			==	E1	1	110
DEC 06	<.010			<.1			==	E1	E1	90
JAN 10	<.010	<15	<2.0	<.1	<.1	<1	<.8	1	E1	80
FEB			~2.0			\1				
07 MAR	<.010								E1	80
06 APR	<.010			<.1				E1	E1	110
10 MAY	.012			<.1				E1	E1	150
08 JUN	<.010			<.1				5	E1	2070
05 JUL	<.010	==		<.1	==	==	==	2	E1	430
10 AUG	<.010	<15	<2.0	<.1	<.1	<1	<.8	2	<1	590
07 SEP	<.010			E.1				3	1	490
18	<.010			<.1				3	2	150
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)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT 12	TOTAL RECOV- ERABLE (UG/L AS PB)	DIS- SOLVED (UG/L AS PB)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	TOTAL RECOV- ERABLE (UG/L AS HG)	DIS- SOLVED (UG/L AS HG)	DIS- SOLVED (UG/L AS NI)	NIUM, DIS- SOLVED (UG/L AS SE)	TOTAL RECOV- ERABLE (UG/L AS AG)	DIS- SOLVED (UG/L AS AG)	DIS- SOLVED (UG/L AS ZN)
OCT 12 NOV 08	TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	DIS- SOLVED (UG/L AS PB) (01049)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	DIS- SOLVED (UG/L AS HG)	DIS- SOLVED (UG/L AS NI) (01065)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	DIS- SOLVED (UG/L AS AG) (01075)	DIS- SOLVED (UG/L AS ZN)
OCT 12 NOV 08 DEC 06	TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	DIS- SOLVED (UG/L AS PB) (01049)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	DIS- SOLVED (UG/L AS HG) (71890)	DIS- SOLVED (UG/L AS NI) (01065)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	DIS- SOLVED (UG/L AS AG) (01075)	DIS- SOLVED (UG/L AS ZN)
OCT 12 NOV 08 DEC 06 JAN 10	TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	DIS- SOLVED (UG/L AS PB) (01049)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	DIS- SOLVED (UG/L AS HG) (71890)	DIS- SOLVED (UG/L AS NI) (01065)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	DIS- SOLVED (UG/L AS AG) (01075)	DIS- SOLVED (UG/L AS ZN) (01090)
OCT 12 NOV 08 DEC 06 JAN 10 FEB 07	TOTAL RECOV- ERABLE (UG/L AS PB) (01051) <1 <1 <1	DIS- SOLVED (UG/L AS PB) (01049)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	DIS- SOLVED (UG/L AS HG) (71890)	DIS- SOLVED (UG/L AS NI) (01065)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	TOTAL RECOV- ERABLE (UG/L AS AG) (01077) <1 <1 <1	DIS- SOLVED (UG/L AS AG) (01075)	DIS- SOLVED (UG/L AS ZN) (01090)
OCT 12 NOV 08 DEC 06 JAN 10 FEB 07 MAR 06	TOTAL RECOV- ERABLE (UG/L AS PB) (01051) <1 <1 <1 <1 <1	DIS- SOLVED (UG/L AS PB) (01049)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	DIS- SOLVED (UG/L AS HG) (71890)	DIS- SOLVED (UG/L AS NI) (01065)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	TOTAL RECOV-ERABLE (UG/L AS AG) (01077) <1 <1 <1 <1 <1	DIS- SOLVED (UG/L AS AG) (01075) <1 <1 <1	DIS- SOLVED (UG/L AS ZN) (01090)
OCT 12 NOV 08 DEC 06 JAN 10 FEB 07 MAR 06 APR 10	TOTAL RECOV- ERABLE (UG/L AS PB) (01051) <1 <1 <1 <1 <1 <	DIS- SOLVED (UG/L AS PB) (01049)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	TOTAL RECOV- ERABLE (UG/L AS HG) (71900) <.3	DIS- SOLVED (UG/L AS HG) (71890)	DIS- SOLVED (UG/L AS NI) (01065)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	TOTAL RECOV-ERABLE (UG/L AS AG) (01077) <1 <1 <1 <1 <1 <1 <1 <1	DIS- SOLVED (UG/L AS AG) (01075) <1 <1 <1 <1 <1	DIS- SOLVED (UG/L AS ZN) (01090)
OCT 12 NOV 08 DEC 06 JAN 10 FEB 07 MAR 06 APR 10 MAY 08	TOTAL RECOV- ERABLE (UG/L AS PB) (01051) <1 <1 <1 <1 <1 <1 <1 <1	DIS- SOLVED (UG/L AS PB) (01049)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	TOTAL RECOV- ERABLE (UG/L AS HG) (71900) <.3	DIS- SOLVED (UG/L AS HG) (71890)	DIS- SOLVED (UG/L AS NI) (01065)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	TOTAL RECOV-ERABLE (UG/L AS AG) (01077) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	DIS- SOLVED (UG/L AS AG) (01075) <1 <1 <1 <1 <1	DIS- SOLVED (UG/L AS ZN) (01090)
OCT 12 NOV 08 DEC 06 JAN 10 FEB 07 MAR 10 APR 10 MAY 08 JUN 05	TOTAL RECOV- ERABLE (UG/L AS PB) (01051) <1 <1 <1 <1 <1 <1 <1 < <1 <1 <1 <1	DIS- SOLVED (UG/L AS PB) (01049)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	TOTAL RECOV- ERABLE (UG/L AS HG) (71900) <.3	DIS- SOLVED (UG/L AS HG) (71890)	DIS- SOLVED (UG/L AS NI) (01065)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	TOTAL RECOV-ERABLE (UG/L AS AG) (01077) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	DIS- SOLVED (UG/L AS AG) (01075) <1 <1 <1 <1 <1 <1 <1	DIS- SOLVED (UG/L AS ZN) (01090)
OCT 12 NOV 08 DEC 06 JAN 10 FEB 07 MAR 06 APR 10 MAY 08 JUN 05 JUL 10	TOTAL RECOV- ERABLE (UG/L AS PB) (01051) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	DIS- SOLVED (UG/L AS PB) (01049) <1 	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055) 17 17	TOTAL RECOV- ERABLE (UG/L AS HG) (71900) <.3	DIS- SOLVED (UG/L AS HG) (71890)	DIS- SOLVED (UG/L AS NI) (01065) <1 	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	TOTAL RECOV-ERABLE (UG/L AS AG) (01077) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	DIS- SOLVED (UG/L AS AG) (01075) <1 <1 <1 <1 <1 <1 <1 <1	DIS- SOLVED (UG/L AS ZN) (01090)
OCT 12 NOV 08 DEC 06 JAN 10 FEB 07 MAR 06 APR 10 MAY 08 JUN 05 JUL	TOTAL RECOV- ERABLE (UG/L AS PB) (01051) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	DIS- SOLVED (UG/L AS PB) (01049) <1 	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055) 17 17	TOTAL RECOV- ERABLE (UG/L AS HG) (71900) <.3	DIS- SOLVED (UG/L AS HG) (71890)	DIS- SOLVED (UG/L AS NI) (01065) <1	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	TOTAL RECOV-ERABLE (UG/L AS AG) (01077) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	DIS- SOLVED (UG/L AS AG) (01075) <1 <1 <1 <1 <1 <1 <1 <1 <1	DIS- SOLVED (UG/L AS ZN) (01090)

06742500 CARTER LAKE NEAR BERTHOUD, CO

LOCATION.--Lat $40^{\circ}19^{\circ}28^{\circ}$, long $105^{\circ}12^{\circ}41^{\circ}$, in $SE^{1}/_{4}$ 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 (AT 0800) FOR CURRENT YEAR.--Maximum contents, 105,400 acre-ft, Apr. 12, elevation, 5,755.94 ft; minimum contents, 48,700 acre-ft, Sept. 30, elevation, 5,699.82 ft.

MONTHEND ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	5,723.51 5,716.85 5,714.54 5,721.79	70,920 64,400 62,180 69,220	-6,520 -2,220 +7,040
CAL YR 1999	=	=	+13,770
Jan. 31. Feb. 29. Mar. 31. Apr. 30. May 31. June 30. July 31. Aug. 31. Sept. 30.	5,739.35 5,742.43 5,753.96 5,750.46 5,733.63 5,735.63 5,729.88 5,712.68 5,699.82	87,240 90.530 103,200 99,300 81,200 83,300 77,400 60,400 48,700	+18,020 +3,290 +12,670 -3,900 -18,100 +2,100 -5,900 -17,000 -11,700
WTR YR 2000	_	_	-22,220

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.

Note: The following remarks may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)			
		20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	1256 1257 1258 1259 1300 1302 1303 1304 1305 1306 1307 1308 1309 1310 1311	.10 5.00 10.0 15.0 20.0 25.0 30.0 40.0 50.0 60.0 70.0 80.0 90.0 100 110	65 64 64 64 64 64 64 63 55 55 55 56 56	8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.1 7.9 7.8 7.7 7.6 7.6	12.4 12.0 11.8 11.8 11.8 11.8 11.7 11.4 10.0 9.7 9.4 9.0 8.7 8.6 8.6	8.1 8.2 8.2 8.2 8.2 8.2 8.2 7.6 5.0 4.9 4.4 3.5 3.5			
		04 04 04 04 04 04 04 04 04 04 04 04 04 04	1240 1241 1242 1243 1244 1245 1246 1247 1248 1249 1250 1251 1252 1253	.10 5.00 10.0 15.0 20.0 25.0 30.0 40.0 50.0 60.0 70.0 80.0 90.0	60 60 59 59 59 58 58 58 58 58 58 58	8.0 8.1 8.2 8.3 8.3 8.2 8.1 8.0 7.9 7.9 7.8 7.8	13.2 12.2 10.3 9.3 8.3 7.7 7.4 7.0 6.6 6.4 6.1 6.0 5.8 5.8	9.7 9.5 10.0 10.2 10.4 10.2 10.0 9.7 9.6 9.5 9.4 9.3 9.3			
		G 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17	1245 1246 1247 1248 1249 1250 1251 1252 1253 1254 1255 1256 1257 1258	.10 5.00 10.0 15.0 20.0 25.0 30.0 40.0 50.0 60.0 70.0 80.0 90.0	69 69 69 53 48 47 46 46 46 45 45	7.8 7.9 7.9 7.8 7.7 7.6 7.5 7.4 7.3 7.3 7.3 7.2	22.0 21.9 21.7 21.6 17.6 15.6 15.1 14.9 14.7 14.6 14.5 14.3 14.1 13.3	7.1 7.1 7.1 6.7 6.4 6.2 6.3 6.3 6.3 6.1 6.2 6.1			
DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	
10	1315 1330	65 56	8.2 7.6	12.4 8.6	146	8.1 3.5	<1	29 25	9.70 8.01	1.24 1.14	
14 14	1300 1315	60 58	8.0 7.8	13.2 5.8	116	9.7 9.3	<1	27 26	8.63 8.51	1.22 1.22	
7 7	1315 1330	69 48	7.8 7.1	22.0 11.5	63.0 	7.1 4.6	K1 	31 21	10.4 6.57	1.31 1.04	

06742500 CARTER LAKE NEAR BERTHOUD, CO--Continued

DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)
OCT 20 20	2.1	.2	.8 .6	31 26	2.8 2.5	.9 .9	.1	2.9 4.8	43 41	39 36
04	2.0	.2	.6 .6	28 28	2.6 2.5	1.0	.1	3.9 4.2	43 42	37 37
AUG 17 17	2.0 1.6	.2	.6 .6	33 22	2.2 1.9	.7 .6	.1	2.5 4.0	43 36	40 30
DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)		PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70954)
OCT 20 20	.06 .06	<.010 <.010	<.050 <.050	<.020 <.020	.22	<.050 E.031	<.050 <.050	<.010 <.010	1.6	<.1
MAY 04 04	.06	<.010 <.010	<.050 <.050	<.020 .021	.13	<.008 <.008	<.006 E.003	<.010 <.010	2.3	E.1
AUG 17 17	.06 .05	<.001 <.001	<.005 .045	.004	.24	.009	<.006 E.003	<.001 .004	1.5	<.1
DATE	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)
OCT 20	4.2 4.1	23 16	<2 <2	<16 E8	<.1 <.1	<14.0 <14.0	<13 <13	<10 <10	<10 <10	<100 <100
MAY 04 04	3.4 3.3	18 18	<2 <2	<16 <16	<.1 <.1	<14.0 <14.0	<13 <13	<10 <10	<10 <10	<100 <100
AUG 17 17	3.6 3.3	29 14	<2 <2	<16 <16	<.1 <.1	<.8 <.8	<1 <1	1 2	<10 E10	<1 <1
DAS		S- REC WED ERA /L (UG LI) AS	E, MAN CAL NES COV- DI BLE SOL C/L (UG MN) AS	E, DEN S- DI VED SOL I/L (UG MN) AS	MO) AS	- DI VED SOL /L (UG NI) AS	ER, TI S- DI VED SOL /L (UG AG) AS	/L (UG SR) AS	M, ZIN S- DI VED SOL J/L (UG V) AS	S- VED /L ZN)
OCT 20 20	. <3. . <3.									
04										
AUG 17 17		8 3 7 10			1 <					1

06746095 JOE WRIGHT CREEK ABOVE JOE WRIGHT RESERVOIR, CO

LOCATION.--Lat $40^{\circ}32^{\circ}24^{\circ}$, long $105^{\circ}52^{\circ}56^{\circ}$, in $SE^{1}/_{4}SE^{1}/_{4}$ 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 report.

-	DISCHA	RGE, CUBI	C FEET PER	SECOND,	WATER YE MEAN VA	AR OCTOBEF LUES	R 1999 TO	SEPTEMBE	R 2000		
DAY OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 4.3 2 4.0 3 3.8 4 3.5 5 3.5	e2.4 e2.4 e2.3 e2.2	e1.1 e1.1 e1.1 e1.1	e.94 e.94 e.93 e.92	e.86 e.86 e.85 e.85	e.78 e.78 e.78 e.78 e.76	e.71 e.67 e.67 e.66 e.66	e2.5 e3.3 e4.5 e8.0 e11	125 106 104 106 118	23 22 21 21 21	9.1 8.8 8.8 8.6 8.4	9.1 8.7 8.3 8.0 8.1
6 3.6 7 3.6 8 3.4 9 3.1 10 3.1	e2.0 e1.8 e1.8 e1.8	e1.1 e1.1 e1.1 e1.1	e.92 e.92 e.92 e.92 e.91	e.84 e.84 e.84 e.84	e.73 e.74 e.75 e.76 e.76	e.60 e.60 e.58 e.60 e.60	e12 e12 e9.6 e8.2 e9.6	119 118 115 116 107	19 20 23 23 23	7 9	7.8 7.2 7.3 6.9 6.5
11 2.8 12 e2.8 13 e2.7 14 e2.7 15 e2.7	e1.9 e1.9 e1.9 e1.9	e1.1 e1.1 e1.1 e1.1	e.91 e.91 e.91 e.91	e.84 e.84 e.83 e.83	e.76 e.77 e.78 e.74 e.71	e.64 e.68 e.68 e.70 e.73	e11 9.4 9.0 7.7 8.1	95 85 82 72 69	21 20 20 19 18	6.7 6.5 6.2 6.1 6.0	6.1 5.8 5.7 5.4 5.0
16 e2.7 17 e2.7 18 e2.7 19 e2.7 20 e2.7	e1.6 e1.3 e1.2 e1.1	e1.1 e1.0 e1.0 e1.0	e.91 e.90 e.90 e.90	e.82 e.82 e.82 e.81 e.81	e.72 e.73 e.73 e.73 e.73	e.74 e.84 e.93 e.95 e.97	12 11 9.4 8.2 8.9	63 57 47 51 53	19 24 21 18 17	7.6 7.7 7.4 6.9 7.4	4.6 4.5 4.2 4.2 5.0
	e1.2 e1.2 e1.2 e1.2										
26 2.2 27 2.2 28 2.5 29 2.4 30 e2.4 31 e2.4	el.1 el.1 el.1 el.1 el.1	e.99 e.98 e.97 e.97 e.96 e.96	e.88 e.88 e.87 e.87 e.86	e.78 e.78 e.78 e.78	e.67 e.67 e.67 e.67 e.67	e1.1 e1.4 e2.0 e2.9 e2.8	41 37 48 70 85 111	28 26 24 24 23	12 12 11 11 10 9.6	14 10 9.7 9.7 9.6 9.1	8.4 8.1 8.0 8.5 8.5
TOTAL 90.4 MEAN 2.92 MAX 4.3 MIN 2.2 AC-FT 179									548.6 17.7 24 9.6 1090	6.0	7.19 14 4.2
STATISTICS OF											
MEAN 3.01 MAX 10.5 (WY) 1998 MIN .54 (WY) 1981	1.53 3.51 1998 .36 1979	1.02 2.50 1998 .28 1981	.85 2.39 1998 .25 1981	.73 1.79 1998 .20 1979	.72 1.50 1994 .20 1979	1.11 3.39 1994 .39 1979	14.0 34.6 1994 3.58 1982	53.6 88.5 1988 25.5 1989	27.9 90.8 1995 6.75 1989	8.74 21.5 1995 1.88 1985	4.49 17.3 1997 1.06 1980
SUMMARY STATIS	TICS	FOR	1999 CALEN	IDAR YEAR	F	OR 2000 W	ATER YEAR		WATER Y	EARS 1979	- 2000
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL LOWEST ANNUAL HIGHEST DAILY LOWEST DAILY ANNUAL SEVEN-D INSTANTANEOUS ANNUAL RUNOFF 10 PERCENT EXC 90 PERCENT EXC	MEAN MEAN EAN AY MINIMUM PEAK FLOW PEAK STAGE (AC-FT) EEDS		3867.57 10.6 85 .74 .82 7670 44 1.7 1.0			4124.29 11.3 125 e.58 e.61 160 5.65 8180 25 2.4	Jun 1 3 Apr 8 1 Apr 5 May 31 7 May 31		9.8: 16.9 5.4(150 a,e.2(e.2(238 b5.6(7110 31 1.6	Jul 1 0 Jan 3 0 Jan 3 Jul 0 Jul	1995 1981 11 1995 30 1979 30 1979 7 1983 7 1983

e Estimated.

Also occurred Jan 31 to Apr 4, 1979, and Feb 9 to Apr 9, 1981.

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 $40^{\circ}33^{\circ}43^{\circ}$, long $105^{\circ}51^{\circ}48^{\circ}$, in $SE^{1}/_{4}NE^{1}/_{4}$ 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 Lake

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.

-		DISCHAR	GE, CUBIC	C FEET PER		VATER YE. MEAN VA		R 1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3.2 2.3 2.3 2.3 2.3	2.3 2.2 2.3 2.3 2.3	e2.1 e2.1 e2.1 e2.1 e2.1	e1.9 e1.9 e1.9 e1.9	e1.7 e1.8 e1.8 e1.8 e1.8	1.9 1.9 1.9 2.0	2.1 2.1 2.1 2.2 2.4	e4.4 e5.0 e5.6 e6.4 e7.1	29 96 106 64 73	28 28 28 25 23	7.6 8.0 11 12 12	79 76 66 49 51
6 7 8 9 10	2.2 1.9 2.1 2.1 2.1	2.3 2.3 2.3 2.3 2.3	e2.1 e2.1 e2.0 e2.0 e2.0	e1.9 e1.9 e1.9 e1.9	e1.9 e1.9 e1.9 e1.9	1.9 1.9 1.9 e1.9	2.5 2.5 2.5 2.5 e2.5	e7.2 e7.4 e6.3 e5.6 e6.2	89 89 e86 e84 e78	21 21 21 21 22	12 7.9 5.7 5.7 5.7	54 49 50 49 47
11 12 13 14 15				e1.9 e1.9 e1.9 e1.9					e64 e35 e50 e74 e101	22 22 23 23 23	5.7 8.8 7.7 5.7	42 39 39 40 43
16 17 18 19 20				e1.9 e1.9 e1.9 e1.9								55 57 55
23 24 25				e1.9 e1.9 e1.9 e1.9						20 20 20 20 20		
26 27 28 29 30 31	2.3 2.3 2.3 2.3 2.3 2.3	e2.1 e2.1 e2.1 e2.1 e2.1	e2.0 e2.0 e2.0 e2.0 e2.0 e1.9	e1.9 e1.8 e1.8 e1.8 e1.8	e1.9 e1.9 e1.9 e1.9	2.1 2.1 2.1 2.1 2.1 2.1	e3.0 e3.3 e3.5 e3.7 e3.7	13 12 14 15 15	48 37 33 30 29	18 7.1 3.4 4.9 4.9 5.4	55 53 61 79 84 84	10 10 10 10 10
				58.4 1.88 1.9 1.8 116				261.0 8.42 16 4.4 518	29 3940	600.7 19.4 28 3.4 1190	719.3 23.2 84 5.7 1430	
				OR WATER Y								
MEAN MAX (WY) MIN (WY)	4.37 20.8 1995 .54 1989	1.23 3.01 1982 .34 1995	.87 2.17 1998 .21 1993	.78 2.10 1998 .24 1993	.73 2.13 1998 .22 1995	.75 2.50 1998 .23 1995	.91 2.90 1997 .29 1991	12.8 48.0 1998 1.21 1980	62.5 100 1996 12.6 1980	38.7 90.8 1993 2.49 1989	31.2 84.7 1991 6.44 1981	31.0 61.8 1995 1.13 1991
SUMMARY	STATISTI	CS	FOR 1	1999 CALENI	DAR YEAR	F	OR 2000 WA	ATER YEAR		WATER Y	EARS 1979	9 - 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME DAILY ME DAILY ME SEVEN-DAY ANEOUS PE	EAN EAN IN EAN EAK FLOW EAK STAGE AC-FT) EDS		151 e1.8 e1.8 2.3 1.9			5175.2 14.1 106 e1.7 e1.8 130 2.13 10270 53 2.3 1.9	Jun 3 Feb 1 Jan 27 Jun 2 Jun 2		15.5 24.4 3.6 245 .1' .1284 a2.7' 11230 57 1.9	Jul 7 Apr 8 Mar Aug 1 Aug	1997 1980 1 1993 3 1991 31 1991 18 1991 18 1991

e Estimated.

a Maximum gage height, 2.78 ft, Jul 10, 1997.

$06751150 \quad \text{NORTH FORK CACHE LA POUDRE RIVER BELOW HALLIGAN RESERVOIR NEAR VIRGINIA DALE, CO} \\$

LOCATION.--Lat $40^{\circ}52^{\circ}42^{\circ}$, long $105^{\circ}20^{\circ}15^{\circ}$, in $NE^{1}/_{4}SW^{1}/_{4}$ sec.34, T.11 N., R.71 W., Larimer County, Hydrologic Unit 10190007, on left bank 500 ft downstream from Halligan Dam, 4.0 mi west of Highway 287, and 5.0 mi south of Virginia Dale.

DRAINAGE AREA.--355 mi².

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

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,310 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Natural flow affected by transbasin diversions, storage reservoirs, and 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.

Duppic	iiciicai wa	cci quaii	cy Data I	or daging .	Deacions	beceron	OI CHID I	epore.				
		DISCHA	RGE, CUBI	C FEET PER		WATER YE MEAN VA	AR OCTOBER LUES	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	93 91 90 75 59	5.6 5.5 5.6 5.3	6.4 6.4 6.0 5.3 5.3	33 32 31 31 33	43 43 43 43 43	35 35 34 33 33	62 76 78 88 93	127 126 133 136 136	146 145 145 144 143	60 60 59 59 58	65 64 64 63 63	42 45 45 44 44
6 7 8 9 10	53 37 17 12 12	5.3 5.3 5.3 5.3 5.3	5.4 5.6 5.5 5.6	30 29 30 29 30	43 43 38 35 35	33 33 33 34 33	94 94 95 85 78	135 135 134 134 135	141 131 126 106 98	57 57 55 55 54	63 62 61 60	44 43 38 35 34
11 12 13 14 15	12 12 12 8.8 7.3	5.3 5.6 5.6 5.6	5.6 5.6 5.3 5.2 5.3	30 31 31 32 34	36 35 35 35 35	33 33 34 33 33	78 78 78 78 78	136 135 142 143 143	97 95 94 93 92	53 51 51 51 50	60 60 50 36 30	32 32 31 31 30
16 17 18 19 20	7.3 7.3 6.7 6.2 5.7	5.6 5.6 5.6 5.9	5.3 5.3 5.3 5.3	34 39 45 46 44	35 35 36 35 35	33 34 33 33 33	77 77 77 59 53	143 149 151 151 151	92 92 92 91 90	49 49 49 49 53	31 29 24 23 23	25 17 12 9.0 7.3
21 22 23 24 25	5.6 5.6 5.8 5.8	6.0 6.1 6.0 5.9 5.9	5.3 5.3 5.3 5.3 5.6	44 44 44 44	35 35 35 35 35	33 35 36 36 36	52 52 52 69 76	152 153 153 153 154	90 86 84 83 83	62 62 65 66	22 22 21 21 27	6.3 5.6 5.6 5.5 5.6
26 27 28 29 30 31	5.8 5.4 5.3 5.3 5.3	6.1 6.4 6.4 6.4 	14 29 34 34 36 33	43 44 43 43 44	35 35 35 35 	36 36 38 49 57 56	76 93 120 129 128	155 155 150 148 147 147	83 82 68 62 60	65 65 65 65 64	29 29 31 35 34 34	5.6 5.6 5.6 5.6
TOTAL MEAN MAX MIN AC-FT	685.2 22.1 93 5.3 1360	171.4 5.71 6.4 5.3 340	317.2 10.2 36 5.2 629	1154 37.2 46 29 2290	1076 37.1 43 35 2130	1116 36.0 57 33 2210	2423 80.8 129 52 4810	4442 143 155 126 8810	3034 101 146 60 6020	1789 57.7 66 49 3550	1299 41.9 65 21 2580	696.9 23.2 45 5.5 1380
STATIS'	TICS OF M	ONTHLY ME	AN DATA F	OR WATER Y	EARS 1998	- 2000,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	12.9 22.1 2000 3.69 1999	4.84 5.71 2000 3.97 1999	14.1 17.9 1999 10.2 2000	35.6 37.2 2000 34.0 1999	41.6 46.3 1999 37.1 2000	58.3 80.7 1999 36.0 2000	92.7 131 1998 66.6 1999	348 641 1999 143 2000	220 369 1999 101 2000	97.6 129 1999 57.7 2000	90.0 120 1999 41.9 2000	70.5 105 1999 23.2 2000
SUMMAR	Y STATIST	ICS	FOR :	1999 CALEN	DAR YEAR	F	OR 2000 WAS	TER YEAR		WATER YE	ARS 1998	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERO 50 PERO	MEAN I ANNUAL I ANNUAL M I DAILY ME DAILY ME SEVEN-DA IANEOUS P	EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		49797.8 136 1500 5.2 5.3 98770 460 59 5.6	May 1 Dec 14 Dec 13		18203.7 49.7 155 5.2 5.3 156 3.27 36110 130 36 5.6	May 26 Dec 14 Dec 13 May 25 May 25		92.5 135 49.7 1500 1.3 1.5 1840 6.47 67010 219 60 5.3	May Sep 2 Sep 2 Apr 3	1999 2000 1 1999 29 1998 29 1998 30 1999 30 1999

06751490 NORTH FORK CACHE LA POUDRE RIVER AT LIVERMORE, CO

LOCATION.--Lat $40^{\circ}47^{\circ}15^{\circ}$, long $105^{\circ}15^{\circ}06^{\circ}$, in $SW^{1}/_{4}SE^{1}/_{4}$ 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 Stonewall Creek.

DRAINAGE AREA. -- 539 mi².

PERIOD OF RECORD.--October 1986 to current year. May 1929 to September 1931, May 1947 to September 1965 (published as "near Livermore", station 06751500); records are not considered equivalent. Water-quality data available, November 1986 to September 1999.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,715 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow affected by transbasin diversions, storage reservoirs, and irrigation.

		DISCHAR	GE, CUBIC	C FEET PER	SECOND, W	IATER YE. MEAN VA	AR OCTOBER LUES	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	14 14 14 14	15 16 16 16 16	16 17 16 15	e49 e45 e43 e44 e44	e50 49 49 e49 e53	43 44 44 41 42	76 91 53 16 16	10 9.3 7.4 11 14	12 15 14 13	11 11 10 9.9	5.9 7.0 7.8 7.5 7.3	5.2 5.1 5.0 4.7 5.0
6 7 8 9 10	13 13 14 14 13	16 16 17 17	16 15 16 15 18	e45 e45 e45 e41 e43	50 50 48 41 e43	42 43 43 44 43	16 15 15 14 13	12 12 12 15 15	13 12 12 13 14	10 11 10 11 9.9	6.1 6.4 5.9 5.2 5.2	5.1 4.8 5.0 4.6 5.0
11 12 13 14 15	13 15 23 23 21	17 17 17 17 17	16 16 17 17	e42 38 e40 e42 37	e46 e48 45 44 46	42 43 43 43 45	13 13 13 13	18 17 20 23 23	17 15 10 9.5 9.6	8.2 6.7 7.0 6.7 5.9	5.8 6.4 7.3 6.6 6.2	4.8 4.6 4.2 4.0 4.0
16 17 18 19 20	24 22 23 23 22	17 17 17 17 18	15 15 16 18 17	36 e38 e44 e48 e47	44 46 46 e46 e46	45 45 45 44 45	14 13 15 14	22 31 35 34 32	11 14 13 13	5.7 6.0 7.2 8.0 7.4	7.5 7.1 7.1 6.0 5.1	3.7 3.6 3.3 3.7 5.7
21 22 23 24 25	21 20 20 19 19	18 20 17 19 18	13 13 13 13 15	-54	45 45 45 45 45	45 45 47 47 48	12 8.5 8.5 8.8 8.3	32 33 34 33 25	13 13 12 12 12	6.1 7.3 8.0 8.0 8.6	5.1 5.2 4.8 4.5 4.4	4.6 7.3 6.9 8.1 7.5
26 27 28 29 30 31	19 19 19 18 18	19 19 17 16 17	16 28 34 e48 e46 e50	50 52 e50 e50 e47 e50	45 45 44 44 43 	49 49 49 57 69 75	7.3 7.0 7.4 8.5 10	24 22 20 16 13 13	14 14 13 13 12	8.0 7.0 6.7 5.8 5.7	5.3 5.5 5.0 4.9 5.5 5.4	7.5 11 11 11 10
TOTAL MEAN MAX MIN AC-FT	554 17.9 24 13 1100	513 17.1 20 15 1020	613 19.8 50 13 1220	1407 45.4 54 36 2790	1339 46.2 53 41 2660	1449 46.7 75 41 2870	546.3 18.2 91 7.0 1080	637.7 20.6 35 7.4 1260	385.1 12.8 17 9.5 764	249.0 8.03 11 5.2 494	185.0 5.97 7.8 4.4 367	176.0 5.87 11 3.3 349
				OR WATER Y								
MEAN MAX (WY) MIN (WY)	12.5 41.0 1998 4.85 1989	17.5 98.8 1998 6.62 1988	12.0 34.3 1998 3.58 1988	14.3 46.2 1999 3.60 1988	17.9 48.2 1996 5.00 1995	21.6 55.5 1990 6.35 1995	67.8 244 1990 4.57 1995	185 904 1999 10.3 1989	214 857 1995 12.8 2000	30.0 133 1995 5.23 1989	18.3 52.5 1991 4.24 1988	10.5 23.6 1997 4.48 1987
SUMMARY	STATISTI	CS	FOR 1	1999 CALENI	DAR YEAR	F	OR 2000 WA	TER YEAR		WATER YE	ARS 1987	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN AN N MINIMUM AK FLOW AK STAGE C-FT) DS		51510.4 141 2760 7.2 7.6 102200 561 23 11	May 1 Apr 19 Apr 14		91 3.3 3.8 98 7.97 15980 47 16 5.7	Sep 13 Apr 2		51.8 141 8.06 2760 a2.6 2.9 5430 17.53 37530 100 12 5.2	May Sep Sep Jun	1999 1989 1 1999 2 1988 1 1988 1 1991 1 1991

e Estimated.

a Also occurred Sep 3, 1988 and Apr 27, 1989.

06752000 CACHE LA POUDRE RIVER AT MOUTH OF CANYON, NEAR FORT COLLINS, CO

LOCATION.--Lat $40^{\circ}39^{\circ}52^{\circ}$, long $105^{\circ}13^{\circ}26^{\circ}$, in $NW^{1}/_{4}$ 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 September 1995.

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 poor. 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, and diversions for municipal use.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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

		DISCIAN	GE, COBI	C PEBI FE	DAILY	MEAN VA		. 1000 10	OBF TEMO	EIC 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	64	e49	89	82	69	120	194	1270	488	220	78
2	84 92	67 62	e48 e46	87 92	89 98	72 68	115 100	207 282	1070 1040	468 465	162 123	84 73
4	92 87	62 60	e46 e45	e89	100	68 69	54	423	1170	497	123	52
5	73	59	e44	85	94	74	57	604	1240	499	121	43
6	46	57	e44	e82	94	83	61	788	1320	474	134	40
7	45	56	50	e79	94	76	60	794	1320	451	138	31
8	48	54	e55	e75	96	75	58	785	1280	445	137	28
9	47	55	e57	e72	85	71	54	624	1270	454	139	27
10	40	56	e56	74	75	69	54	586	1190	450	137	26
11 12	31 29	54 53	56 e55	79 77	77 77	63 78	53 52	767 688	1030 882	414 397	120 99	21 21
13	46	51	e55	75	75	78	50	584	791	392	84	20
14	45	44	e53	80	62	77	54	550	813	350	70	20
15	44	50	e52	80	92	81	62	532	783	337	64	20
16	56	54	e53	82	87	73	67	563	723	342	99	20
17	53	57	e49	89	89	77	60	831	658	364	121	20
18 19	51	55	e48	74	92	79	64	510	681	351	87 49	21
20	55 54	52 42	e49 e49	62 60	96 85	72 79	170 64	321 260	627 765	361 343	49	21 32
21	61	60	e50	53	96	78	66	246	721	331	69	45
22 23	62 62	60 44	e50 e50	53 55	100 100	75 77	79 96	355 583	642 621	300 269	51 39	123 258
24	62	39	50	60	96	81	96	1140	584	255	50	178
25	58	46	52	50	92	81	83	782	601	247	43	128
26	60	60	55	56	86	82	72 74 99	910	591	264	72	102
27	60	80	56	80	90	85	74	820	602	275	127	107
28	55	70	56	89	89	86	99	917	571	268	87	95
29 30	55 64	e59 e50	62 82	85 87	76 	92 104	140 195	1170 1270	526 522	250 236	67 77	88 80
31	60		96	85		110		1270		224	91	
TOTAL	1773	1670	1672	2335	2564	2434	2429	20376	25904	11261	3046	1902
MEAN	57.2	55.7	53.9	75.3	88.4	78.5	81.0	657	863	363	98.3	63.4
MAX	92	80	96	92	100	110	195	1290	1320	499	220	258
MIN	29	39	44	50	62	63	50	194	522	224	39	20
AC-FT	3520	3310	3320	4630	5090	4830	4820	40420	51380	22340	6040	3770
STATIST	rics of MC	ONTHLY MEA	N DATA F	OR WATER	YEARS 1881	- 2000,	BY WATER	YEAR (WY)				
MEAN	90.7	61.9	45.0	41.3	43.7	53.8	150	930	1833	787	330	164
MAX	270	177	125	158	138	149	743	2807	4812	2225	792	443
(WY)	1943	1998	1984	1984	1984	1980	1900	1900	1884	1983	1884	1938
MIN	21.7	8.14	12.6	9.00	10.2	10.6	19.5	204	442	158	61.2	37.3
(WY)	1995	1939	1965	1930	1967	1939	1991	1977	1934	1966	1954	1962
SUMMARY	Y STATISTI	CS	FOR :	1999 CALE	NDAR YEAR	F	OR 2000 WA	TER YEAR		WATER YE	ARS 1881	- 2000
ANNUAL	TOTAL			169939			77366					
ANNUAL				466			211					
	r annual M									891		1983
	ANNUAL ME DAILY ME			4360	Apr 30		1320	Jun 6		129 7550	T 1	1977 L6 1923
	DAILY MEA			29	Oct 12		20	Sep 13		a1.6	Nov 2	20 1948
	SEVEN-DAY			40	Oct 9		20	Sep 11		3.9	Nov	7 1938
INSTANT	TANEOUS PE	EAK FLOW					1790	May 30		b21000		9 1891
	TANEOUS PE							May 30				
	RUNOFF (A			337100			153500			1000		
	CENT EXCEE			1640 83			625 80			1200 90		
	CENT EXCER			48			80 47			24		
JO FERM				-10			11			21		

e Estimated.

Also occurred Nov 28, 1948, caused by diversion of Poudre Valley Canal, 0.5 mi upstream.

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.--Lat $40^{\circ}36'11"$, long $105^{\circ}05'43"$, 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.

REMARKS.--Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboaratory analysis value; K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
OCT 13	1000	12	249	8.5	11.5	9.0	110	30.4	7.35			97
NOV 09	0930	47	313	8.4	8.5	10.3	140	41.3	9.48			113
DEC 07	1045	40	363	8.4	4.0	11.8	190	55.3	12.4	9.4	.3	137
JAN 11 FEB	1030	57	304	8.5	.0	13.4	130	38.5	8.95			119
08 MAR	1015	88	261	8.9	3.0	12.2	120	35.4	8.14			104
07 APR	1010	75	241	8.0	7.0	10.8	110	31.7	7.00			93
11 MAY	1015	34	247	8.3	10.0	10.8	110	31.7	7.14			93
09 JUN	1030	356	54	7.6	7.5	9.8	23	6.49	1.58			21
06 JUL	1115	350	43	7.9	14.0	11.1	18	5.28	1.15			18
11 AUG	1050	225	97	8.1	19.0	7.9	41	12.0	2.72	2.9	.2	35
08 SEP	1000	61	94	8.1	17.0	8.4	39	11.6	2.39			38
19	1130	14	384	8.2	18.0	8.0	180	52.6	11.8			130
DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, 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)	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)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)
OCT 13	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	RESIDUE AT 180 DEG. C DIS- SOLVED (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)	PHORUS DIS- SOLVED (MG/L AS P)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	INUM, DIS- SOLVED (UG/L AS AL)	DIS- SOLVED (UG/L AS AS)
OCT 13 NOV 09	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	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)	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 13 NOV 09 DEC 07	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	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)	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 13 NOV 09 DEC 07 JAN 11	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	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)	PHORUS DIS- SOLVED (MG/L AS P) (00666) <.050	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.010	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 13 NOV 09 DEC 07 JAN 11 FEB 08	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .112 .117	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.020 <.020 <.020	PHORUS DIS- SOLVED (MG/L AS P) (00666) <.050 <.050	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.010 <.010	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 13 NOV 09 DEC 07 JAN 11 FEB 08 MAR	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010 <.010 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .112 .117 .248	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.020 <.020 <.020 <.020	PHORUS DIS- SOLVED (MG/L AS P) (00666) <.050 <.050 <.050	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.010 <.010	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 13 NOV 09 DEC 07 JAN 11 FEB 08 MAR 07 APR 11	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010 <.010 <.010 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .112 .117 .248 .160	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.020 <.020 <.020 <.020 <.020	PHORUS DIS- SOLVED (MG/L AS P) (00666) <.050 <.050 <.050 <.050	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.010 <.010 <.010 <.010	INUM, DIS- SOLVED (UG/L AS AL) (01106) <-15	DIS- SOLVED (UG/L AS AS) (01000)
OCT 13 NOV 09 DEC 07 JAN 11 FEB 08 MAR 07 APR 11 MAY 09	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010 <.010 <.010 <.010 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .112 .117 .248 .160 .120 .086	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.020 <.020 <.020 <.020 <.020 <.020 <.020	PHORUS DIS- SOLVED (MG/L AS P) (00666) <.050 <.050 <.050 <.050 <.050 <.050	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.010 <.010 <.010 <.010 <.010	INUM, DIS- SOLVED (UG/L AS AL) (01106) <-15	DIS- SOLVED (UG/L AS AS) (01000)
OCT 13 NOV 09 JSN 11 FEB 08 MAR 07 APR 11 MAY 09 JUN 06	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010 <.010 <.010 <.010 <.010 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .112 .117 .248 .160 .120 .086 <.005	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020	PHORUS DIS- SOLVED (MG/L AS P) (00666) <.050 <.050 <.050 <.050 <.050 <.050 <.050	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.010 <.010 <.010 <.010 <.010 <.010	INUM, DIS- SOLVED (UG/L AS AL) (01106) <-15	DIS- SOLVED (UG/L AS AS) (01000)
OCT 13 NOV 09 DEC 07 JAN 11 FEB 08 MAR 07 APR 11 MAY 09 JUN 06 JUL 11	DIS- SOLVED (MG/L AS SO4) (00945) -53.0 	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .112 .117 .248 .160 .120 .086 <.005	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020	PHORUS DIS- SOLVED (MG/L AS P) (00666) <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.010 <.010 <.010 <.010 <.010 <.010 <.010	INUM, DIS- SOLVED (UG/L AS AL) (01106) <15	DIS- SOLVED (UG/L AS AS) (01000) E1.0
OCT 13 NOV 09 DEC 07 JAN 11 FEB 08 MAR 07 APR 11 MAY 09 JUN 06 JUL	DIS- SOLVED (MG/L AS SO4) (00945) 53.0 	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .112 .117 .248 .160 .120 .086 <.005 .024	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020	PHORUS DIS- SOLVED (MG/L AS P) (00666) <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	INUM, DIS- SOLVED (UG/L AS AL) (01106) <-15	DIS- SOLVED (UG/L AS AS) (01000) E1.0

06752258 CACHE LA POUDRE RIVER AT SHIELDS STREET, AT FORT COLLINS, CO--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT 13			P.1	230							-1	
NOV			E1	230							<1	
09			E1	70							<1	
DEC			D.L	70							~_	
07	<.1	<.8	E1	110		<1	20	<.2	<1	<2.4	<1	<20
JAN												
11			<1	60							<1	
FEB												
08			E1	70							<1	
MAR												
07			<1	80							<1	
APR 11			E1	100							<1	
MAY			EI	100							ν.τ	
09			E1	310							<1	
JUN												
06			E1	390							<1	
JUL												
11	<.1	<.8	E1	160		<1	14	<.2	<1	<2.4	<1	E14
AUG												
08 SEP			2		10						<1	
19	==		1		50		==				<1	

06752260 CACHE LA POUDRE RIVER AT FORT COLLINS, CO

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 May 22, 1987, at site 300 ft downstream, at different datum. May 22, 1987 to Nov. 10, 1988 at site 4,300 ft upstream, at different datum. Nov. 10, 1988 to Oct. 16, 1996, at site 100 ft upstream, at same datum.

REMARKS.--Records fair 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		DIDOINI	J2, 00D10	, , , , , , , , , , , , , , , , , , , ,	DAILY	MEAN VA	LUES	1999 10	021 121121	2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	93 93 102 76 18	89 106 88 89 89	59 57 59 54 42	59 54 56 50 51	77 81 92 95 92	e1.2 e1.2 e1.2 e1.2	16 22 35 12	266 397 356 464 448	271 101 59 102 128	177 134 124 132 88	15 e14 48 15 13	84 23 66 27 45
6 7 8 9 10	8.3 5.3 7.3 17 24	76 59 53 50 50	35 44 53 47 43	51 51 52 49 44	93 92 91 87 72	2.4 3.9 2.6 1.9	11 10 2.8 e1.2 e2.6	441 347 401 248 250	238 313 404 567 620	96 92 96 109 126	26 24 30 31 32	107 67 80 82 93
11 12 13 14 15	29 37 66 74 62	49 49 46 40 39	54 51 52 52 38	48 49 60 76 80	75 71 77 70 66	e1.2 e1.2 5.9 e3.1 e4.1	4.6 4.9 4.5 3.4 6.1	405 385 376 405 395	383 138 131 244 149	111 81 66 33 21	70 125 90 84 134	86 74 50 11 9.1
16 17 18 19 20	81 89 93 79 78	47 50 55 57 37	40 45 45 50 44	86 81 79 55 50	83 81 82 82 83	6.6 2.3 e1.2 e1.2 1.5	10 8.5 8.5 44 11	384 566 261 4.9 3.4	234 219 137 22 140	29 51 53 24 17	172 178 154 104 133	e6.7 9.7 11 15 21
21 22 23 24 25	79 82 81 81 78	42 55 55 38 31	52 46 51 50 42	47 43 39 32 41	90 92 90 86 84	4.5 1.8 2.0 1.6 3.3	e1.2 26 134 91 73	e2.6 e20 e29 e209	110 36 58 47 61	26 42 58 38 20	135 134 92 110 140	22 34 76 16 10
26 27 28 29 30 31	82 84 76 82 88 84	47 80 78 65 57	46 33 22 19 35 63	44 69 83 85 82 85	80 85 53 1.2 	3.1 3.7 4.8 1.6 3.9 8.4	88 98 113 166 192	121 48 135 217 e187 216	69 95 89 66 144	18 37 37 28 17 e9.6	126 218 189 164 160 159	8.6 8.5 7.2 6.7 7.4
TOTAL MEAN MAX MIN AC-FT	2028.9 65.4 102 5.3 4020	1766 58.9 106 31 3500	1423 45.9 63 19 2820	1831 59.1 86 32 3630	2303.2 79.4 95 1.2 4570	86.2 2.78 8.4 1.2 171	1212.3 40.4 192 1.2 2400	8043.9 259 566 2.6 15960	5375 179 620 22 10660	1990.6 64.2 177 9.6 3950	3119 101 218 13 6190	1163.9 38.8 107 6.7 2310
STATIS	STICS OF MC	ONTHLY MEA	N DATA FO	OR WATER	YEARS 1975	- 2000,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	28.2 182 1998 2.45 1978	31.5 183 1998 1.79 1978	25.8 97.3 1985 1.91 1978	32.7 123 1984 2.29 1978	34.4 135 1984 1.30 1987	35.6 136 1980 1.91 1988	110 652 1983 .37 1988	467 2720 1980 14.9 1976	944 4771 1983 158 1989	246 1450 1983 39.2 1988	76.1 301 1997 12.8 1988	37.0 207 1997 4.79 1987
SUMMAR	Y STATISTI	ICS	FOR 1	1999 CALE	ENDAR YEAR	F	OR 2000 W	ATER YEAR		WATER Y	EARS 1975	- 2000
ANNUAL HIGHES LOWEST HIGHES LOWEST ANNUAL INSTAN INSTAN ANNUAL 10 PER 50 PER	TOTAL MEAN TANNUAL ME TANNUAL ME TANLY ME TOALLY ME TOAL	EAN EAN AN MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		121582.5 333 5730 4.6 7.2 241200 1260 69 26	May 1 5 Apr 18		30343.0 82.9 620 1.2 1.4 785 4.6 60190 177 56 4.6	Jun 10 2 Feb 29 4 Feb 29 May 6 52 May 6		175 779 41.8 6080 a.00 7710 10.46 126500 368 28 2.9) Aug) Mar Apr	1983 1977 21 1983 18 1987 24 1988 30 1999 30 1999

e Estimated.

a Also occurred Aug 19, Sep 4, 18-19, 1987, and many days in 1988.

06752260 CACHE LA POUDRE RIVER AT FORT COLLINS, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1975 to current year.

REMARKS.--Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
OCT 14	0850	79	221	8.3	10.0	9.2	95	27.0	6.62			88
NOV 09 DEC	0815	48	331	8.4	8.0	10.2	150	42.5	10.2			63
07	0900	39	357	8.6	1.5	13.4	170	48.7	11.2	10.5	.4	130
JAN 11 FEB	0910	38	335	8.6	.0	14.3	150	42.0	10.2			129
08 MAR	0845	88	276	7.7	1.5	11.8	130	37.5	8.82			39
07 APR	0845	3.9	370	7.9	7.0	10.5	160	44.5	11.4			136
11 MAY	0845	6.1	313	8.3	9.5	10.2	130	36.3	8.75			108
09 JUN	0845	289	58	8.3	7.0	9.3	24	6.81	1.67			25
06 JUL	0915	294	49	8.0	13.5	12.7	20	5.89	1.32			20
11 AUG	0900	99	110	7.7	18.0	6.9	45	12.9	3.10	3.4	.2	39
08 SEP	0830	35	133	7.8	16.5	7.7	55	15.9	3.71			53
19	0910	10	410	8.0	18.0	7.6	180	50.4	12.4			135
DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, 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)	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)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)
DATE OCT 14	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	RESIDUE AT 180 DEG. C DIS- SOLVED (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)	PHORUS DIS- SOLVED (MG/L AS P)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	INUM, DIS- SOLVED (UG/L AS AL)	DIS- SOLVED (UG/L AS AS)
OCT 14 NOV 09	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	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)	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	INUM, DIS- SOLVED (UG/L AS AL)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 14 NOV 09 DEC 07	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	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)	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 14 NOV 09 DEC 07 JAN 11	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.020	PHORUS DIS- SOLVED (MG/L AS P) (00666) <.050	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.010	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 14 NOV 09 DEC 07 JAN 11 FEB 08	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .109 .161	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.020 <.020 <.020	PHORUS DIS- DIS- SOLVED (MG/L AS P) (00666) <.050 <.050	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.010 <.010	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 14 NOV 09 DEC 07 JAN 11 FEB 08 MAR	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .109 .161 .244	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.020 <.020 <.020 <.020	PHORUS DIS- SOLVED (MG/L AS P) (00666) <.050 <.050 <.050	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.010 <.010 <.010 <.010	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 14 NOV 09 DEC 07 JAN 11 FEB 08 MAR 07 APR 11	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010 <.010 <.010 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .109 .161 .244 .222 .162	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.020 <.020 <.020 <.020 <.020	PHORUS DIS- SOLVED (MG/L AS P) (00666) <.050 <.050 <.050 <.050	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.010 <.010 <.010	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 14 NOV 09 DEC 07 JAN 11 FEB 08 MAR 07 APR 11 MAY	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L) AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010 <.010 <.010 <.010 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .109 .161 .244 .222 .162 .421	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.020 <.020 <.020 <.020 <.020 .020	PHORUS DIS- SOLVED (MG/L AS P) (00666) <.050 <.050 <.050 <.050 <.050 <.050	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.010 <.010 <.010 <.010 <.010 <.010 <.010	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000) <2.0
OCT 14 NOV 09 JAN 11 FEB 08 MAR 07 APR 11 MAY 09 JUN	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L) AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .109 .161 .244 .222 .162 .421 .244	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.020 <.020 <.020 <.020 <.020 .020 .035	PHORUS DIS- SOLVED (MG/L AS P) (00666) <.050 <.050 <.050 <.050 <.050 <.050 <.050	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.010 <.010 <.010 <.010 <.010	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000) <2.0
OCT 14 NOV 09 JAN 11 FEB 08 MAR 07 APR 11 MAY 09 JUN 06 JUN	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .109 .161 .244 .222 .162 .421 .244 .032	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.020 <.020 <.020 <.020 <.020 .020 <.020 <.020 <.020	PHORUS DIS- SOLVED (MG/L AS P) (00666) <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	INUM, DIS- SOLVED (UG/L AS AL) (01106) <15	DIS- SOLVED (UG/L AS AS) (01000) <2.0
OCT 14 NOV 09 JEC 07 JAN 11 FEB 08 MAR 07 APR 11 MAY 09 JUN 06 JUL	DIS- SOLVED (MG/L AS SO4) (00945) 53.2 	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .109 .161 .244 .222 .162 .421 .244 .032 .022	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.020 <.020 <.020 <.020 .020 .035 <.020 <.020	PHORUS DIS- SOLVED (MG/L AS P) (00666) <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	INUM, DIS- SOLVED (UG/L AS AL) (01106) <-15	DIS- SOLVED (UG/L AS AS) (01000) <2.0

06752260 CACHE LA POUDRE RIVER AT FORT COLLINS, CO--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT												
14 NOV			1	170							<1	
09			E1	80							<1	
DEC												
07	<.1	<.8	E1	270		<1	25	<.2	<1	<2.4	<1	<20
JAN 11 FEB			2	70							<1	
08			<1	70							<1	
MAR 07			E1	170							<1	
APR 11			1	930							<1	
MAY 09			E1	340							<1	
JUN 06			<1	470							<1	
JUL 11 AUG	<.1	<.8	<1	190		<1	19	<.2	<1	<2.4	<1	<20
08 SEP	==		2		20						<1	
19			2		50						<1	

platte river basin 125

06752270 CACHE LA POUDRE RIVER BELOW FORT COLLINS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $40^\circ34^\circ01^\circ$, long $105^\circ01^\circ36^\circ$, in $NW^1/_4NE^1/_4$ sec.20, T.7 N., R.68 W., Larimer County, Hydrologic Unit 10190007, 1.4 mi west of Interstate 25 on Prospect Street in Fort Collins.

DRAINAGE AREA.--1,240 mi².

PERIOD OF RECORD. -- January 1978 to current year.

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value: K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
OCT 12	1230	22	782	8.7	15.0	11.7	340	90.4	27.3			192
NOV 08 DEC	1230	73	435	9.2	10.0	12.7	200	54.7	14.5			134
06 06 JAN	1315 1330	42 42	507 	8.8 8.7	4.0 4.0	13.5 13.2	230 230	64.5 65.1	16.7 16.8			145 148
10 FEB	1410	49	454	8.9	2.0	16.6	200	55.7	15.0	17.0	.5	149
07 MAR	1215	69	346	9.0	4.0	13.8	170	46.9	11.7			122
06 APR	1345	10	824	8.5	11.5	13.3	370	99.1	28.9		==	212
10 MAY	1445	15	919	8.6	14.0	14.4	400	107	33.0			207
08 JUN	1445	500	72	8.4	8.5	9.7	30	8.51	2.10			26
05 JUL	1130	208	114	8.1	14.0	10.7	45	12.7	3.18			35
10 AUG	1130	119	166	8.5	20.0	8.7	69	19.5	4.89	5.4	.3	48
07 SEP	1345	23	668	8.6	23.5	10.9	290	81.0	21.7			139
18	1150	17	653	8.3	18.0	9.1	290	79.9	21.3			153
DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, 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)	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)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)
OCT 12	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	RESIDUE AT 180 DEG. C DIS- SOLVED (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)	PHORUS DIS- SOLVED (MG/L AS P)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	INUM, DIS- SOLVED (UG/L AS AL)	DIS- SOLVED (UG/L AS AS)
OCT 12 NOV 08	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	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)	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 12 NOV 08 DEC 06	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .032 <.010 .085	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 2.62 .744	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .023 <.020 .021	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 12 NOV 08 DEC 06 06	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .032 <.010 .085 .083	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 2.62 .744 1.11 .579	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .023 <.020 .021 <.020	PHORUS DIS- SOLVED (MG/L AS P) (00666) .332 .108 .126 .142	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .324 .087 .122 .131	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 12 NOV 08 DEC 06 06 JAN 10 FEB	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .032 <.010 .085 .083 .058	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 2.62 .744 1.11 .579	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .023 <.020 .021 <.020 <.020	PHORUS DIS- SOLVED (MG/L AS P) (00666) .332 .108 .126 .142	PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671) .324 .087 .122 .131 .055	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 12 NOV 08 DEC 06 JAN 10 FEB 07 MAR	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .032 <.010 .085 .083 .058	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 2.62 .744 1.11 .579 .776	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .023 <.020 .021 <.020 <.020 <.020	PHORUS DIS- SOLVED (MG/L AS P) (00666) .332 .108 .126 .142 .060 E.037	PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671) .324 .087 .122 .131 .055	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 12 NOV 08 DEC 06 JAN 10 FEB 07 MAR 06	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .032 <.010 .085 .083 .058 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 2.62 .744 1.11 .579 .776 .450 2.62	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .023 <.020 .021 <.020 <.020 <.020	PHORUS DIS- SOLVED (MG/L AS P) (00666) .332 .108 .126 .142 .060 E.037	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .324 .087 .122 .131 .055 .039	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 12 NOV 08 DEC 06 JAN 10 FEB 07 MAR 06 APR 10 MAY	DIS- SOLVED (MG/L AS SO4) (00945) 81.6	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .032 <.010 .085 .083 .058 <.010 .054	GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) 2.62 .744 1.11 .579 .776 .450 2.62 2.10	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .023 <.020 .021 <.020 <.020 .020 .021	PHORUS DIS- SOLVED (MG/L AS P) (00666) .332 .108 .126 .142 .060 E.037 .395	PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671) .324 .087 .122 .131 .055 .039 .346 .185	INUM, DIS- SOLVED (UG/L AS AL) (01106) <15	DIS- SOLVED (UG/L AS AS) (01000)
OCT 12 NOV 08 06 06 JAN 10 FEB 07 MAR 06 APR 10 MAY 08 JUN	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .032 <.010 .085 .083 .058 <.010 .054 .044 <.010	GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) 2.62 .744 1.11 .579 .776 .450 2.62 2.10 .120	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .023 <.020 .021 <.020 <.020 <.020 .021 <.020 <.020	PHORUS DIS- SOLVED (MG/L AS P) (00666) .332 .108 .126 .142 .060 E.037 .395 .212 <.050	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .324 .087 .122 .131 .055 .039 .346 .185 <.010	INUM, DIS- SOLVED (UG/L AS AL) (01106) < < < < < < <-	DIS- SOLVED (UG/L AS AS) (01000)
OCT 12 NOV 08 DEC 06 JAN 10 FEB 07 MAR 06 APR 10 MAY 08 JUN 05 JUL	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .032 <.010 .085 .083 .058 <.010 .054 .044 <.010 <.010	GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) 2.62 .744 1.11 .579 .776 .450 2.62 2.10 .120 .195	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .023 <.020 .021 <.020 <.020 .020 .020 .020 .020 .020	PHORUS DIS- SOLVED (MG/L AS P) (00666) .332 .108 .126 .142 .060 E.037 .395 .212 <.050	PHORUS ORTHO, DIS-SOLVED (MG/L) AS P) (00671) .324 .087 .122 .131 .055 .039 .346 .185 <.010	INUM, DIS- SOLVED (UG/L AS AL) (01106) <15	DIS- SOLVED (UG/L AS AS) (01000)
OCT 12 NOV 08 DEC 06 JAN 10 FEB 07 MAR 06 APR 10 MAY 08 JUN	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .032 <.010 .085 .083 .058 <.010 .054 .044 <.010	GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) 2.62 .744 1.11 .579 .776 .450 2.62 2.10 .120	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .023 <.020 .021 <.020 <.020 <.020 .021 <.020 <.020	PHORUS DIS- SOLVED (MG/L AS P) (00666) .332 .108 .126 .142 .060 E.037 .395 .212 <.050	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .324 .087 .122 .131 .055 .039 .346 .185 <.010	INUM, DIS- SOLVED (UG/L AS AL) (01106) <15	DIS- SOLVED (UG/L AS AS) (01000)

06752270 CACHE LA POUDRE RIVER BELOW FORT COLLINS, CO--Continued

DATE	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT 12 NOV			1	160							<1	
08 DEC			1	110							<1	
06			E1	110							<1	
06			E1	110							<1	
JAN 10 FEB	<.1	<.8	E1	90		<1	18	<.2	<1	<2.4	<1	<20
07			<1	80							<1	
MAR 06 APR			2	230							<1	
10			E1	300							<1	
MAY 08 JUN			E1	690							<1	
05			<1	420							<1	
JUL 10 AUG	<.1	<.8	E1	170		<1	15	<.2	<1	<2.4	<1	<20
07			2		20						<1	
SEP 18			2		30						<1	

06752280 CACHE LA POUDRE RIVER ABOVE BOX ELDER CREEK NEAR TIMNATH, CO

LOCATION.--Lat 40 33'07", long 105 00'39", in $\mathrm{NE}^1/_4\mathrm{NW}^1/_4$ 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 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 with satellite telemetry. 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 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.

	_	DISCHARG	E, CUBIC	FEET PER		WATER YE	EAR OCTOBER	R 1999 TO) SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	62 66 72 62 16	112 131 113 115 114	78 73 78 71 61	71 67 69 74 67	101 95 108 112 110	8.8 8.9 9.0 9.0	9.5 9.7 9.6 9.5 8.5	161 334 267 359 359	213 69 28 67 77	126 85 72 73 43	6.3 7.2 33 16 6.8	76 13 39 7.3 20
6 7 8 9 10	7.2 4.8 4.5 4.5	104 84 76 71 72	53 61 69 66 61	82 78 64 64 56	111 96 91 92 73	8.8 9.1 8.3 8.2 8.3	8.2 7.9 8.0 7.7 7.7	359 281 296 197 165	159 223 306 427 528	45 38 44 50 71	7.3 5.8 8.2 7.3 7.9	75 41 49 53 56
11 12 13 14 15	8.7 14 18 83 75	61 51 50 45 42	70 66 66 79 95	61 59 65 82 85	78 54 38 34 21	7.9 7.9 8.3 8.2 9.3	7.0 4.5 4.1 4.2 4.3	298 290 279 302 292	328 97 76 166 98	65 39 24 11 8.4	31 78 76 56 107	50 36 20 5.8 5.4
16 17 18 19 20	118 114 129 115 115	50 65 76 79 64	52 57 56 63 62	89 96 98 69 64	33 32 33 31 34	10 10 10 9.7 9.6	6.2 7.4 6.9 7.8 18	285 465 288 8.9 4.9	144 193 103 6.7 65	9.3 23 23 11 8.9	139 139 133 75 93	3.5 2.1 2.6 2.1
21 22 23 24 25	113 117 115 117 114	58 80 84 67 57	66 69 66 63 57	63 59 55 49 54	35 39 38 36 34	9.7 9.3 10 9.3 9.4	6.8 12 82 62 48	5.1 11 18 145 49	67 13 12 12 14	8.9 10 14 11 9.0	111 111 60 77 111	6.0 11 42 13 6.8
26 27 28 29 30 31	115 116 109 109 111 112	60 99 101 86 76	58 52 38 35 41 72	57 78 98 103 103	30 32 34 8.9 	9.0 8.8 8.9 8.8 9.0 9.6	51 66 76 117 153	82 38 94 167 167 157	26 50 46 29 70	7.7 8.9 11 10 7.8 7.3	97 167 162 134 128 130	4.9 4.3 4.2 3.6 2.8
TOTAL MEAN MAX MIN AC-FT	2341.2 75.5 129 4.5 4640	2343 78.1 131 42 4650	1954 63.0 95 35 3880	2287 73.8 108 49 4540	1663.9 57.4 112 8.9 3300	280.1 9.04 10 7.9 556	830.5 27.7 153 4.1 1650	6223.9 201 465 4.9 12350	3712.7 124 528 6.7 7360	975.2 31.5 126 7.3 1930	2320.8 74.9 167 5.8 4600	666.4 22.2 76 2.1 1320
STATIS	TICS OF MO	ONTHLY MEAN	DATA FO	R WATER Y	EARS 1980	- 2000,	, BY WATER	YEAR (W)	7)			
MEAN MAX (WY) MIN (WY)	23.5 162 1998 3.55 1992	34.8 179 1998 4.45 1991	29.0 114 1998 3.99 1991	30.1 139 1984 3.39 1995	29.3 156 1984 3.76 1992	32.1 159 1980 4.38 1991	116 633 1980 3.45 1991	462 2729 1980 8.66 1982	924 4430 1983 85.8 1989	213 1288 1983 5.94 1987	53.7 278 1997 4.27 1987	32.2 182 1997 3.61 1988
SUMMAR	Y STATIST	ICS	FOR 1	999 CALEN	DAR YEAR	E	FOR 2000 WA	ATER YEAR	2	WATER Y	EARS 1980	- 2000
ANNUAL HIGHES LOWEST HIGHES LOWEST ANNUAL INSTAN ANNUAL 10 PER 50 PER	T ANNUAL M ANNUAL MI T DAILY MI DAILY MEA	EAN EAN AN MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		113045.9 310 5750 2.7 3.3 224200 1180 62 13	May 1 Apr 13 Apr 15		25598.7 69.9 528 2.1 4.6 673 6.02 50780 139 57 7.3	Sep 14	! !	700 19.4 5750 1.0 2.3 a7200 b11.1 314 12 4.1	May Oct: Apr May 3 May	1983 1989 1 1999 14 1989 9 1995 1 1999 1 1999

a From slope-area measurement of peak flow.

b From highwater marks.

PERIOD OF RECORD.--October 1979 to current year.

REMARKS.--The following remark codes may appear in the data tables below: e, estimated: E, estimated laboratory analysis value, K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
OCT 12 NOV	1415	14	1040	8.6	17.0	10.7	470	123	39.5			193
08	1405	78	527	9.0	12.0	12.9	240	65.0	18.3			138
DEC 06	1450	48	648	8.7	4.5	13.2	300	80.5	23.2	25.9	.7	156
JAN 10	1520	56	565	8.7	2.0	15.7	250	67.4	19.5			153
FEB 07	1315	73	415	9.0	5.0	13.7	190	53.7	14.1			126
MAR 06	1445	8.6	1170	8.6	13.0	12.6	540	141	45.9			204
APR 10	1545	6.8	1370	8.6	14.0	12.8	630	162	55.6			198
MAY 08	1600	502	90	7.7	9.0	9.3	37	10.4	2.70			28
JUN 05 JUL	1330	117	187	8.2	17.5	10.2	73	19.8	5.63			43
10	1330	62	285	8.6	22.0	8.8	110	29.8	9.05	10.2	.4	56
AUG 07	1500	3.9	1260	8.4	27.5	11.3	570	147	50.5			162
SEP 18	1315	2.9	1370	8.1	21.5	10.7	660	164	60.1			165
DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, 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)	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)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)
OCT 12	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	RESIDUE AT 180 DEG. C DIS- SOLVED (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)	PHORUS DIS- SOLVED (MG/L AS P)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	INUM, DIS- SOLVED (UG/L AS AL)	DIS- SOLVED (UG/L AS AS)
OCT 12 NOV 08	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	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)	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 12 NOV 08 DEC 06	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	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)	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 12 NOV 08 DEC 06 JAN 10	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .037 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 12 NOV 08 DEC 06 JAN 10 FEB 07	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .037 <.010 .103	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 1.93 .580	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .029 <.020 .022	PHORUS DIS- SOLVED (MG/L AS P) (00666) .178 .076	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .181 .057	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 12 NOV 08 DEC 06 JAN 10 FEB 07 MAR	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .037 <.010 .103	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 1.93 .580 1.28 .753	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) -029 <.020	PHORUS DIS- SOLVED (MG/L AS P) (00666) .178 .076 .128	PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671) .181 .057 .109	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 12 NOV 08 DEC 06 JAN 10 FEB 07 MAR 06 APR 10	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .037 <.010 .103 .043 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 1.93 .580 1.28 .753 .348	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .029 <.020 .022 <.020 <.020	PHORUS DIS- SOLVED (MG/L AS P) (00666) .178 .076 .128 E.038	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .181 .057 .109 .033	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 12 NOV 08 DEC 06 JAN 10 FEB 07 MAR 06 APR 10 MAY 08	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .037 <.010 .103 .043 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 1.93 .580 1.28 .753 .348 2.35	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .029 <.020 .022 <.020 <.020 .139	PHORUS DIS- SOLVED (MG/L AS P) (00666) .178 .076 .128 E.038 <.050	PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671) .181 .057 .109 .033 .019	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 12 NOV 08 DEC 06 JAN 10 FEB 07 MAR 06 APR 10 MAY 08 JUN 05	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .037 <.010 .103 .043 <.010 .069 .037	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 1.93 .580 1.28 .753 .348 2.35	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .029 <.020 .022 <.020 <.020 .139 .054	PHORUS DIS- SOLVED (MG/L AS P) (00666) .178 .076 .128 E.038 <.050 .318	PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671) .181 .057 .109 .033 .019 .267	INUM, DIS- SOLVED (UG/L AS AL) (01106)	DIS- SOLVED (UG/L AS AS) (01000)
OCT 12 NOV 08 DEC 06 JAN 10 FEB 07 APR 10 MAY 08 JUN 05 JUL 10	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .037 <.010 .103 .043 <.010 .069 .037 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 1.93 .580 1.28 .753 .348 2.35 1.45	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .029 <.020 .022 <.020 <.020 .139 .054 <.020	PHORUS DIS- SOLVED (MG/L AS P) (00666) .178 .076 .128 E.038 <.050 .318 .075 <.050	PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671) .181 .057 .109 .033 .019 .267 .067	INUM, DIS- SOLVED (UG/L AS AL) (01106) <15	DIS- SOLVED (UG/L AS AS) (01000)
OCT 12 NOV 08 DEC 06 JAN 10 FEB 07 MAR 06 APR 10 MAY 08 JUN 05	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .037 <.010 .103 .043 <.010 .069 .037 <.010 <.010	GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) 1.93 .580 1.28 .753 .348 2.35 1.45 .125 .218	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .029 <.020 .022 <.020 <.020 .139 .054 <.020 .028	PHORUS DIS- SOLVED (MG/L AS P) (00666) .178 .076 .128 E.038 <.050 .318 .075 <.050	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .181 .057 .109 .033 .019 .267 .067	INUM, DIS- SOLVED (UG/L AS AL) (01106) <-15	DIS- SOLVED (UG/L AS AS) (01000) E1.1

06752280 CACHE LA POUDRE RIVER ABOVE BOX ELDER CREEK NEAR TIMNATH, CO--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT 12			1	170							<1	
NOV			Τ.	170							~ 1	
08			E1	110							<1	
DEC				110								
06	<.1	<.8	E1	110		<1	19	<.2	<1	E2.2	<1	<20
JAN												
10			E1	110							<1	
FEB												
07			<1	80							<1	
MAR 06			2	310							<1	
APR			2	310							< T	
10			E1	310							<1	
MAY				310								
08			E1	710							<1	
JUN												
05			E1	470							<1	
JUL												
10	<.1	<.8	E1	270		<1	22	<.2	<1	<2.4	<1	E10
AUG												
07 SEP			3		20						<1	
18			2		20						<1	
10			2		20						~ 1	

06754000 SOUTH PLATTE RIVER NEAR KERSEY, CO

LOCATION.--Lat $40^{\circ}24^{\circ}44^{\circ}$, long $104^{\circ}33^{\circ}46^{\circ}$, in $NW^{1}/_{4}SW^{1}/_{4}$ 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, except for estimated daily discharges, which are poor. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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

		DISCIA	RGE, COD.	IC PEBI FE	DAILY	MEAN V		IC 1999 10	OBF TEMO	SIC 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1490	1250	1200	e1320	1120	845	947	e800	1200	237	175	461
2	1390	1290	1190	e1270	1110	845 828 835 872 851	1220	e500	1110	220	168	483
3	1370	1300	1150	e1300	1120	835	1110	405	892	213	193	418
4 5	1350	1320	1170	e1350	1160 1080	8 / Z	1230 943	e230	779 723	191 174	209 281	412 403
	1310	1310	1220	e1360				e190				
6 7	1300 1260	1320 1310	1200 e1170	e1340 e1280	1060 1070	843 844 842 839 824	752 662 623 631 586	e180 e210	696 553	174 148	239 218	391 375
8	1230		e1070	e1250	1050	842	623	e300	413	143	210	363
9	1200	1190	e980	e1250	1030	839	631	e300 629	353	130	200	344
10	1160		e980 968	e1240	1010	824	586	971	309	137	184	330
11	1180	1090	953	e1240 e1160 1150 1140 1150	1000	787 767 758 768 778	528	560 463	305	151	179	317
12	1100	1080	947	e1160	1000 1010	767	528 500 435 389 373	463	281 e240 e200 180	151	178	312
13	1070	1070	923	1150	1040	758	435	467	e240	160	179	297
14	1030	1050	907	1140	1060	768	389	359	e200	162	184	279
15	1070							e280	180	158	184	279
16	1140	1020	897	1120	1020 932 914 924 940	831	394		177	163	215	276
17 18	1290 1470	1010 1060	891	1120	932	1040	493	e500 2730	e210 e400	622 2650	193 1130	278 279
19	1450	1110	882	1150	914	940	361	2660		1020	1130 1540 591	294
20	1460	1130	869	1130	940	861	334	1460	e360 249	441	591	383
21	1400							962	262	331	366	782
22	1370	1190	953	1130	978 1030 1050 1090 1080	1060	271	962 818 701 624 719	262 237 177 165 160	289	300	883
23	1370	1370	1070	1110	1050	1100	274	701	177	250	265	935
24	1330	1340	1120	1100	1090	1020	339	624	165	232	254	1120
25	1300									209	228	1600
26	1300	1230	1100	1080	955 907 894 864 	1040	e280	1140 1220 987 804 671 1070	164	202 184 179 180 173	233 274 395 419 674	1320
27	1280	1260	1100	1110	907	1060	e240	1220	376	184	274	1070
28 29	1250 1210	1280	e1210	1240	894	868	e200	987	643	1/9	395 410	946 856
30	1210	1250	e1340	1160	864	600	207	804 671	2/7	180 172	419 674	758
31	1260	1230	e1370	1130		541	207	1070		172	683	
TOTAL	39600	35880	33024	36970	29538	26813	15617	23830	12688	9846	10741	17244
MEAN MAX	1277 1490	1196 1370	1065	1193	1019 1160	1100	52I	769 2730	423 1200	318	346	575 1600
MIN	1030	1010	859	1080	864	541	179	180	160	130	168	276
AC-FT	78550	71170	65500	73330	58590	53180	30980	47270	25170	9846 318 2650 130 19530	21300	34200
STATIST	TTCS OF M	ONTHLY ME.	AN DATA I	FOR WATER	YEARS 1976	- 2000.	. BY WATER	YEAR (WY)				
MEAN	900	960	071	0.6.2	0.50	020	1110	2536		1054 5784 1983 183 1994	865	820
MAX	3388	2585	1337	1434	1641	1852	3894	13060	14520	5784	2783	2079
(WY)	1985	1985	1985	1984	1984	1983	1983	1980	1983	1983	1984	1984
MIN	415	488	568	503	540	473	144	251	113	183	304	259
(WY)	1978	1978	1982	1982	1641 1984 540 1978	1982	1982	1977	1977	1994	1981	1977
SUMMAR	Y STATIST	TCS	FOR	1999 CALE	ENDAR YEAR	ŀ	OR 2000 W	ATER YEAR		WATER YE	EARS 1976	- 2000
ANNUAL ANNUAL				692277 1897			291791 797			a1262		
	r annual	MEAN		1057						3631		1983
	ANNUAL M	EAN								456		1977
	r daily M	IEAN		18800	May 2		2730	May 18		b21500	May	31 1995
LOWEST	DAILY ME			271	Apr 13 Apr 8		130	Jul 9		c61	Apr	26 1982
ANNUAL	SEVEN-DA	Y MINIMUM		331	Apr 8		146	Jul 7		63	Apr	25 1982
TINDIAM	IANEOUS P	LAK LTOM					4380	JUL 18		022900 £11 0/	May May	31 100E
ANNITAT.	SIMOEE (EAK STAGE AC-FT) EDS EDS		1373000			578800	-2 UUI 10		a1262 3631 456 b21500 c61 63 d22900 f11.00 914000 2130 782	riay	JI 1773
10 PERC	CENT EXCE	EDS		4650			1300			2130		
50 PERG	CENT EXCE	EDS		1110			892			782		
90 PERG	CENT EXCE	EDS		551			193			320		
o Fati	imated											

e Estimated.

Average discharge for 71 years (water years 1902-03, 1906-74), 777 ft³/s; 562900 acre-ft/yr, prior to Average discharge for 71 years (water years 1902 03, 1900 11, 1907 12, 1907

platte river basin 131

06754000 SOUTH PLATTE RIVER NEAR KERSEY, CO--Continued (National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1993 to Feburary 1996, May 1997 to current year.

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count; M, presence of material verified but not quantified.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
OCT 06	0945	1280	1140	8.6	13.2	7.5	380	90.5	37.8	97.1	2	6.3
NOV 02	1120	1280	1100	8.3	7.8	10.2	370	88.1	36.8	97.0	2	6.3
DEC 08	1150	1060	1250	8.1	4.6	10.6	420	98.1	43.3	106	2	7.1
JAN 04	1150	1320	1080	8.1	.8	11.5	350	84.4	32.7	87.6	2	6.4
FEB 02	1125	1080	1110	8.1	3.9	9.8	380	89.9	36.6	100	2	7.3
MAR 01 APR	1030	827	1180	8.2	8.1	10.1	390	90.6	39.7	104	2	7.8
11 MAY	0950	538	1220	8.2	10.7	7.9	420	102	39.4	108	2	7.7
03 JUN	1020	419	1240	8.3	15.4	7.3	410	97.0	40.4	99.7	2	7.5
06 JUL	0950	709	871	8.3	19.1	7.4	290	67.4	29.2	65.6	2	4.5
06 AUG	1040	188	1420	8.3	22.6	9.6	510	119	52.6	98.0	2	6.2
02 SEP	1115	168	1460	8.3	21.9	10.8	500	116	51.7	101	2	6.1
06	1015	379	1320	8.2	18.4	7.6	440	98.4	46.1	101	2	6.1
DATE	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
OCT 06	BONATE WATER DIS IT FIELD MG/L AS HCO3	BONATE WATER DIS IT FIELD MG/L AS CO3	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	DIS- SOLVED (TONS PER AC-FT)	DIS- SOLVED (TONS PER DAY)	GEN, NITRITE DIS- SOLVED (MG/L AS N)
OCT 06 NOV 02	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	DIS- SOLVED (TONS PER AC-FT) (70303)	DIS- SOLVED (TONS PER DAY) (70302)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
OCT 06 NOV 02 DEC 08	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	DIS- SOLVED (TONS PER AC-FT) (70303)	DIS- SOLVED (TONS PER DAY) (70302)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
OCT 06 NOV 02 DEC 08 JAN 04	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 163	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 59.3	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	DIS- SOLVED (TONS PER AC-FT) (70303) 1.08	DIS- SOLVED (TONS PER DAY) (70302) 2740 2560	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
OCT 06 NOV 02 DEC 08 JAN 04 FEB 02	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 189 201 176	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 4	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 163 167 146	DIS- SOLVED (MG/L AS SO4) (00945) 304 290 347	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 59.3 62.3	RIDE, DIS- SOLVED (MG/L AS F) (00950) 1.0 1.1	DIS- SOLVED (MG/L AS SIO2) (00955) 10.5 9.3	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 792 742 878	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 733 720	DIS- SOLVED (TONS PER AC-FT) (70303) 1.08 1.01 1.19	DIS- SOLVED (TONS PER DAY) (70302) 2740 2560 2510	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .052 .048
OCT 06 NOV 02 DEC 08 JAN 04 FEB 02 MAR 01	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 189 201 176	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 4	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 163 167 146	DIS- SOLVED (MG/L AS SO4) (00945) 304 290 347 289	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 59.3 62.3 71.7	RIDE, DIS- SOLVED (MG/L AS F) (00950) 1.0 1.1	DIS- SOLVED (MG/L AS SIO2) (00955) 10.5 9.3 9.9	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 792 742 878 750	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 733 720 802 689	DIS- SOLVED (TONS PER AC-FT) (70303) 1.08 1.01 1.19	DIS- SOLVED (TONS PER DAY) (70302) 2740 2560 2510 2670	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .052 .048 .063
OCT 06 NOV 02 DEC 08 JAN 04 FEB 02 MAR	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 189 201 176 176 221	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 4	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 163 167 146 146 181	DIS- SOLVED (MG/L AS SO4) (00945) 304 290 347 289 296	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 59.3 62.3 71.7 61.2	RIDE, DIS- SOLVED (MG/L AS F) (00950) 1.0 1.1 1.0 .9	DIS- SOLVED (MG/L AS SIO2) (00955) 10.5 9.3 9.9 8.8 9.8	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 792 742 878 750 760	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 733 720 802 689 754	DIS- SOLVED (TONS PER AC-FT) (70303) 1.08 1.01 1.19 1.02	DIS- SOLVED (TONS PER DAY) (70302) 2740 2560 2510 2670 2220	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .052 .048 .063 .095
OCT 06 NOV 02 DEC 08 JAN 04 FEB 02 MAR 01 APR 11	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 189 201 176 176 221 205 170 214	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 4	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 163 167 146 146 181 168	DIS- SOLVED (MG/L AS SO4) (00945) 304 290 347 289 296 314	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 59.3 62.3 71.7 61.2 70.7	RIDE, DIS- SOLVED (MG/L AS F) (00950) 1.0 1.1 1.0 .9 1.0	DIS- SOLVED (MG/L AS SIO2) (00955) 10.5 9.3 9.9 8.8 9.8	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 792 742 878 750 760 836	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)(70301) 733 720 802 689 754 772	DIS- SOLVED (TONS PER AC-FT) (70303) 1.08 1.01 1.19 1.02 1.03	DIS- SOLVED (TONS PER DAY) (70302) 2740 2560 2510 2670 2220 1870	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .052 .048 .063 .095 .141 .102
OCT 06 NOV 02 DEC 08 JAN 04 FEB 02 MAR 01 APR 11 MAY 03 JUN 06 JUL	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 189 201 176 176 221 205 170	BONATE WATER WATER DIS IT FIELD MG/L AS CO3 (00452) 4	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 163 167 146 146 181 168 139	DIS- SOLVED (MG/L AS SO4) (00945) 304 290 347 289 296 314 320 329 232	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 59.3 62.3 71.7 61.2 70.7 69.6 70.3	RIDE, DIS- SOLVED (MG/L AS F) (00950) 1.0 1.1 1.0 .9 1.0 1.0 .9	DIS- SOLVED (MG/L AS SIO2) (00955) 10.5 9.3 9.9 8.8 9.8 8.4 9.6 9.6	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 792 742 878 750 760 836 848	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 733 720 802 689 754 772 774	DIS- SOLVED (TONS PER AC-FT) (70303) 1.08 1.01 1.19 1.02 1.03 1.14 1.15	DIS- SOLVED (TONS PER DAY) (70302) 2740 2560 2510 2670 2220 1870	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .052 .048 .063 .095 .141 .102 .045 .081 .033
OCT 06 NOV 02 DEC 08 JAN 04 FEB 02 MAR 01 APR 11 MAY 03 JUN 06 JUL 06	BONATE WATER WATER DIS IT FIELD MG/L AS HC03 (00453) 189 201 176 176 221 205 170 214 193 257	BONATE WATER WATER DIS IT FIELD MG/L AS CO3 (00452) 4 4	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 163 167 146 146 181 168 139 175 158 217	DIS- SOLVED (MG/L AS SO4) (00945) 304 290 347 289 296 314 320 329 232 428	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 59.3 62.3 71.7 61.2 70.7 69.6 70.3 63.3 37.0 49.9	RIDE, DIS- SOLVED (MG/L AS F) (00950) 1.0 1.1 1.0 .9 1.0 1.0 .9	DIS- SOLVED (MG/L AS SIO2) (00955) 10.5 9.3 9.9 8.8 9.8 8.4 9.6 9.6 8.4	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 792 742 878 750 760 836 848 820 578 1030	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 733 720 802 689 754 772 774 781 555 927	DIS- SOLVED (TONS PER AC-FT) (70303) 1.08 1.01 1.19 1.02 1.03 1.14 1.15 1.12 .79 1.40	DIS- SOLVED (TONS PER DAY) (70302) 2740 2560 2510 2670 2220 1870 1230 928 1110 521	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .052 .048 .063 .095 .141 .102 .045 .081 .033 .094
OCT 06 NOV 02 DEC 08 JAN 04 FEB 02 MAR 01 APR 11 MAY 03 JUN 06 JUN 06	BONATE WATER DIS IT FIELD MG/L AS HC03 (00453) 189 201 176 176 221 205 170 214 193	BONATE WATER WATER DIS IT FIELD MG/L AS CO3 (00452) 4	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 163 167 146 146 181 168 139 175 158	DIS- SOLVED (MG/L AS SO4) (00945) 304 290 347 289 296 314 320 329 232	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 59.3 62.3 71.7 61.2 70.7 69.6 70.3 63.3 37.0	RIDE, DIS- SOLVED (MG/L AS F) (00950) 1.0 1.1 1.0 .9 1.0 1.0 .9	DIS- SOLVED (MG/L AS SIO2) (00955) 10.5 9.3 9.9 8.8 9.8 8.4 9.6 9.6	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 792 742 878 750 760 836 848 820 578	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)(70301) 733 720 802 689 754 772 774 781 555	DIS- SOLVED (TONS PER AC-FT) (70303) 1.08 1.01 1.19 1.02 1.03 1.14 1.15 1.12	DIS- SOLVED (TONS PER DAY) (70302) 2740 2560 2510 2670 2220 1870 1230 928 1110	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .052 .048 .063 .095 .141 .102 .045 .081 .033

06754000 SOUTH PLATTE RIVER NEAR KERSEY, CO--Continued (National Water-Quality Assessment Program station)

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT												
06	6.15	.359	. 47	1.3	.83	.640	.569	.526	4.9	1.1	<10	10
NOV 02	6.24	.373	.57	1.3	.94	.748	.668	.549	4.7	.6	30	14
DEC												
08	6.36	.756	.64	1.7	1.4	.782	.687	.603	4.9	.9	10	21
JAN 04	6.36	1.14	.49	2.2	1.6	.815	.669	.627	5.9	1.2	10	14
FEB												
02 MAR	6.87	1.44	.59	2.6	2.0	.843	.696	.571	5.1	.8	10	27
01	7.21	.546	.74	1.6	1.3	.962	.819	.727	5.7	1.5	10	25
APR												
11 MAY	6.90	.123	.56	.99	.68	.731	.649	.618	4.5	.9	E10	18
MAY 03	5.80	.453	.56	1.6	1.0	.750	.567	.502	5.2	1.8	<10	24
JUN												
06	3.27	.122	.32	1.1	.45	.528	.347	.340	4.6	2.6	<10	10
JUL 06	6.93	.136	.44	1.1	.58	. 458	.269	.286	4.9	1.0	<10	39
AUG	0.55	.130	• • • •		.50	. 150	.205	.200	1.5	1.0	110	33
02	6.91	<.020		.92	.37	.291	.163	.137	4.7	1.1	<10	59
SEP		0.50	••	=0	4.0	0.55		0.770				
06	5.55	.050	.43	.78	.48	.357	.300	.270	3.9	.9	<10	19

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	DIS- CHARGE, SUS- PENDED (T/DAY)	SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT						
06	0945	1280	13.2	41	142	71
NOV 02	1120	1280	7.8	49	169	38
DEC	1120	1200	7.0	43	103	30
08	1150	1060	4.6	33	94	40
JAN	1150	1220	0	F.0	105	F.0.
04 FEB	1150	1320	.8	52	185	52
02	1125	1080	3.9	51	149	52
MAR						
01 APR	1030	827	8.1	29	65	79
11	0950	538	10.7	25	36	64
MAY						
03	1020	419	15.4	44	50	88
JUN 06	0950	709	19.1	90	172	83
JUL	0,50	705	17.1	30	1/2	03
06	1040	188	22.6	137	70	97
AUG 02	1115	168	21.9	64	29	97
SEP	1112	100	21.9	04	29	21
06	1015	379	18.4	35	36	93

06758500 SOUTH PLATTE RIVER NEAR WELDONA, CO

LOCATION.--Lat $40^{\circ}19^{\circ}19^{\circ}$, long $103^{\circ}55^{\circ}17^{\circ}$, 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

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.--No estimated daily discharges. Records 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.

		DISCHAF	RGE, CUBI	C FEET PE		WATER MEAN	YEAR OCTOBI VALUES	ER 1999 TO	SEPTEME	BER 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1640 1470 1370 1340 1320	831 827 862 873 894	743 737 735 723 714	920 1000 1000 976 994	958 1070 1080 1080 1100	586 676 660 662 687	740 1060 1020	387 653 458 189 64	1060 1100 791 591 444	205 139 167 310 282	219 231 257 270 274	818 654 653 576 581
6 7 8 9 10	1280 1240 1080 836 752	867 873 884 855 796	743 742 729 726 744	999 985 949 940 858	1050 1060 1050 1030 1010	683 704 750 811 850	708 645 596	41 65 145 224 459	534 520 324 127 103	259 243 235 266 252	330 285 246 239 290	570 486 323 242 208
11 12 13 14 15	721 736 733 709 685	753 740 729 713 692	764 753 755 750 740	835 803 750 803 757	1020 1020 1020 1080 1100	819 800 780 780 796	244 203 97	517 307 339 426 349	141 132 184 99 62	265 262 203 191 195	273 267 269 268 262	180 131 135 176 189
16 17 18 19 20	719 793 878 963 994	682 669 654 686 692	775 985 1110 1140 1120	746 734 750 765 742	1090 1080 1010 985 985	513 423 540 573 520	42 37 183	288 277 963 2050 1270	97 105 157 271 228	181 184 526 827 302	279 347 359 908 975	197 195 175 164 282
21 22 23 24 25	1090 1050 1010 1000 979	735 752 820 973 886	1110 1080 1080 1140 1290	716 697 683 669 641	976 662 586 580 596	481 516 697 742 690	219 174 143	620 320 569 697 642	100 142 243 193 140	224 149 121 99 109	436 249 342 235 236	367 498 499 557 611
26 27 28 29 30 31	963 898 837 803 782 836	794 738 734 750 752	1330 1250 1210 1200 949 803	765 655 654 728 719 659	648 671 655 621 	662 712 755 705 561 522	122 148 134 257	753 1160 1230 1020 866 770	138 295 465 472 322	144 303 290 276 274 253	325 330 336 469 516 767	830 717 561 458 408
TOTAL MEAN MAX MIN AC-FT	30507 984 1640 685 60510	23506 784 973 654 46620	28670 925 1330 714 56870	24892 803 1000 641 49370	26873 927 1100 580 53300	20656 666 850 423 40970	367 1110 37 21830	18118 584 2050 41 35940	9580 319 1100 62 19000	7736 250 827 99 15340	11089 358 975 219 22000	12441 415 830 131 24680
MEAN MAX (WY) MIN (WY)	575 3119 1985 134 1977	530 2298 1985 100 1977	613 1266 1986 115 1995	756 1443 1984 259 1995	699 1562 1984 231 1978	540 1494 1983 132 1978	3226 1983 119	1857 10130 1980 183 1981	2499 12310 1983 101 1977	797 5121 1995 191 1981	667 2208 1984 237 1981	694 2118 1984 123 1977
SUMMARY	STATISTI	ICS	FOR	1999 CALE	NDAR YEAR		FOR 2000 V	WATER YEAR		WATER	YEARS 1976	- 2000
LOWEST A HIGHEST LOWEST D ANNUAL S INSTANTA ANNUAL R 10 PERCE 50 PERCE	MEAN ANNUAL MANNUAL ME DAILY ME DAILY ME SEVEN-DAY ANEOUS PE	EAN EAN AN MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		16000 28 30 1128000 4060 874 173	May 3 Apr 7 Apr 3		225073 615 2050 37 94 2470 4.8 446400 1060 669 162	May 19 Apr 18 Apr 13 May 19 May 19		a919 2995 231 e,b16300 28 30 c18400 10 665600 488 164	Apr Apr May	1983 1977 11 1995 7 1999 3 1999 3 1999 3 1999

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.

REMARKS:--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
NOV 12	1100	772	1330	8.4	10.0	10.6	600	100	430	99.2	42.7	114
MAR 09	1130	860	1290	8.1	6.0	11.3	K20	120	440	105	42.3	115
MAY 11	1045	483	1110	8.4	16.0	8.9	210	290	370	88.5	36.3	86.0
DATE	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
NOV 12 MAR	2	6.9	288	376	68.4	1.0	10.8	894	921	1.22	1860	.019
09 MAY	2	7.5	205	361	72.5	.9	10.9	926	872	1.26	2150	.024
11	2	6.4	171	299	53.5	.9	10.3	744	703	1.01	970	.019
DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	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)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)
NOV 12	5.88	<.020	.62	.491	.420	.360	46	<2	230	<8.0	<14.0	<13
MAR 09	6.87	<.020	.20	.733	.570	.523	44	<2	263	<8.0	<14.0	<13
MAY 11	3.90	<.020	.93	.596	.317	.294	37	<2	204	<8.0	<14.0	<13
DATE	COPPER, DIS- SOLVED (UG/L	IRON, DIS- SOLVED (UG/L	LEAD, DIS- SOLVED (UG/L	LITHIUM DIS- SOLVED (UG/L	MANGA- NESE, DIS- SOLVED (UG/L	MOLYB- DENUM, DIS- SOLVED (UG/L	NICKEL, DIS- SOLVED (UG/L	SELE- NIUM, DIS- SOLVED (UG/L	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L	ZINC, DIS- SOLVED (UG/L
	AS CU) (01040)	AS FE) (01046)	AS PB) (01049)	AS LI) (01130)	AS MN) (01056)	AS MO) (01060)	AS NI) (01065)	AS SE) (01145)	(01075)	(01080)	AS V) (01085)	AS ZN) (01090)
NOV 12	AS CU)	AS FE)	AS PB)									
	AS CU) (01040)	AS FE) (01046)	AS PB) (01049)	(01130)	(01056)	(01060)	(01065)	(01145)	(01075)	(01080)	(01085)	(01090)

135 PLATTE RIVER BASIN

06764000 SOUTH PLATTE RIVER AT JULESBURG, CO

LOCATION.--Lat $40^{\circ}58^{\circ}46^{\circ}$, long $102^{\circ}15^{\circ}15^{\circ}$, in $NW^{1}/_{4}NE^{1}/_{4}$ and $NE^{1}/_{4}SE^{1}/_{4}$ (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 Ladrenge Creek. 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.

DICCULARCE CURTO FEED DED CECOND MATER VEND OCTOBED 1000 TO CERTEMBED 2000

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

		DISCHA	RGE, CUB	IC FEET P	ER SECOND, DAILY	WATER YE MEAN VA		1999 TO	SEPTEMBI	ER 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1550 1700 1630 1410 1340	762 746 733 743 753	780 784 774 737 882	e1470 e1360 e1390 e1390 e1380	1030 1010 1040 1210 1280	774 788 770 766 800	916 859 814 766 912	319 252 275 296 262	202 192 119 102 99	25 23 19 22 24	18 25 20 18 19	34 38 35 42 48
6 7 8 9 10	1260 1190 1170 1110 1050	777 785 786 787 790	1100 1110 1150 1140 1140	e1410 e1420 e1420 e1400 e1360	1320 1320 1330 1320 1320	804 858 1210 1290 1130	1010 955 823 709 667	264 226 198 190 167	87 68 60 54 46	28 27 25 29 28	29 31 22 16 14	60 125 162 132 91
11 12 13 14 15	981 911 808 747 737	781 760 736 718 712	1140 1120 1150 1170 1150	e1350 e1350 e1310 e1280 e1260	1370 1370 1310 1300 1300	1060 1070 1060 1030 1010	644 660 621 547 516	143 146 140 136 135	43 44 36 33 36	30 33 39 26 21	14 13 12 14	73 75 77 86 67
16 17 18 19 20	730 713 688 673 673	703 684 686 661 652	1110 1110 1130 1180 1290	e1230 e1230 e1200 e1160 e1110	1310 1350 1350 1350 1330	968 955 952 878 856	500 477 457 453 373	138 129 122 117 103	36 48 44 42 39	16 21 21 23 28	19 161 64 37 29	56 47 39 35 46
21 22 23 24 25	704 753 792 807 811	636 646 676 699 731	1380 1380 1410 1410 1400	1070 1080 1050 1030 1030	1290 1300 1300 1160 938	888 882 862 856 862	313 250 218 239 219	133 291 254 124 96	31 30 32 26 19	31 23 20 17 17	31 25 34 33 21	20 17 32 64 66
26 27 28 29 30 31	842 859 828 834 795 779	760 843 847 837 802	1420 1510 e1560 e1610 e1590 e1570	1020 1010 1040 1050 1010 1000	836 766 758 768 	922 951 955 937 934 949	183 149 142 139 327	83 73 68 72 84 164	22 27 28 28 34	17 17 23 24 22 20	17 17 14 13 18 32	96 139 129 95 78
TOTAL MEAN MAX MIN AC-FT	29875 964 1700 673 59260	22232 741 847 636 44100	37387 1206 1610 737 74160	37870 1222 1470 1000 75120	34636 1194 1370 758 68700	29027 936 1290 766 57580	15858 529 1010 139 31450	5200 168 319 68 10310	1707 56.9 202 19 3390	739 23.8 39 16 1470	844 27.2 161 12 1670	2104 70.1 162 17 4170
MEAN MAX (WY) MIN (WY)	321 2427 1985 5.85 1904 Y STATIST	361 2358 1985 23.0 1911	422 1371 1985 18.8 1912	539 1571 1998 89.9 1965	YEARS 1902 620 1864 1930 78.9 1935 ENDAR YEAR	563 2200 1939 56.9 1904	556 2808 1983 17.3 1904 FOR 2000 WF	1080 9922 1980 24.1 1911	1518 12200 1983 8.33 1910	311 5059 1983 2.15 1903 WATER YEA	191 1882 1997 2.52 1902 ARS 1902	253 1964 1984 5.60 1903
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	MEAN I ANNUAL ANNUAL M I DAILY ME DAILY ME SEVEN-DA IANEOUS P	EAN EAN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS		536355 1469 14100 101 133 1064000 3970 785 283	May 6 Apr 19 Jul 13		217479 594 1700 12 14 1790 b5.54 431400 1320 687 23	Oct 2 Aug 13 Aug 9 Oct 2		565 2882 76.3 30800 a.00 37600 c10.44 409100 1180 238 29	Aug 1 Jul 2 Jun 2	1983 1956 6 1921 8 1902 0 1903 0 1965 0 1965

e Estimated.

Also occurred Aug 19-20, 1902, and Jul 25 to Aug 7, 1903. Gage height recorded for channel #1.

From floodmarks in gage well.

07079300 EAST FORK ARKANSAS RIVER AT HIGHWAY 24 NEAR LEADVILLE, CO

LOCATION.--Lat $39^{\circ}16'21"$, long $106^{\circ}18'21"$, in $NW^{1}/_{4}NW^{1}/_{4}$ 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 fair 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.

		DISCHARG	E, CUBIC	FEET PER	SECOND, DAILY	WATER YE MEAN VA	AR OCTOBER LUES	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	26 25 25 24 24	18 18 18 18	e14 e14 e14 e13 e13	e12 e13 e12 e11 e11	e12 e12 e12 e11 e11	e9.5 e9.8 e10 e10	12 12 12 12 13	30 36 49 65 86	400 365 305 268 236	69 65 66 62 56	32 31 30 30 28	33 30 28 27 26
6 7 8 9 10	25 30 30 30 28	18 18 17 17 16	e13 e13 e13 e13 e13	e11 e11 e11 e11	e11 e11 e11 e11	e10 e10 e10 e10 e10	13 13 13 14 15	110 116 122 89 84	210 189 183 174 156	52 53 58 73 70	27 26 25 24 23	29 29 28 30 27
11 12 13 14 15	27 26 25 24 24	16 16 16 16 16	e13 e14 e13 e13 e13	e12 e12 e12 e12 e12	e11 e11 e11 e11	e10 e10 e10 e10 e11	15 16 17 18 18	110 106 80 74 75	146 143 134 121 121	58 59 67 65 63	24 25 24 23 22	25 24 22 22 21
16 17 18 19 20	23 23 23 23 22	15 e15 e15 e15 e15	e13 e14 e14 e14 e14	e12 e12 e12 e12 e12	e11 e10 e10 e10 e10	e11 e11 e10 e10 e10	17 19 21 19 19	83 109 82 74 77	114 102 94 98 110	81 106 92 71 59	23 24 28 27 26	21 20 21 20 20
21 22 23 24 25	22 21 21 20 20	e15 e15 e15 e15 e15	e14 e13 e13 e14 e14	e12 e12 e12 e12 e12	e10 e10 e10 e10 e10	e10 e10 e10 11 11	20 19 20 20 20	81 115 e220 e300 e400	94 88 86 81 80	53 48 46 44 42	29 32 32 30 28	21 28 25 25 23
26 27 28 29 30 31	20 19 18 19 19	e15 e14 e14 e14 e14	e14 e14 e13 e13 e13 e13	e12 e12 e12 e12 e12 e12	e10 e10 e9.7 e9.6	10 11 11 11 11	22 24 29 31 32	e300 e250 e270 e370 e550 e450	78 81 77 72 69	41 41 39 37 36 33	29 32 31 38 41 37	23 22 22 22 21
TOTAL MEAN MAX MIN AC-FT	725 23.4 30 18 1440	477 15.9 18 14 946	416 13.4 14 13 825	366 11.8 13 11 726	308.3 10.6 12 9.6 612	319.3 10.3 11 9.5 633	545 18.2 32 12 1080	4963 160 550 30 9840	4475 149 400 69 8880	1805 58.2 106 33 3580	881 28.4 41 22 1750	735 24.5 33 20 1460
STATIST MEAN MAX (WY) MIN (WY)	19.4 23.4 2000 15.1 1995	NTHLY MEAN 14.9 18.1 1996 10.8 1992	DATA FO 12.3 15.4 1996 10.1 1992	10.7 13.0 1996 9.17 1995	10.3 13.3 1997 7.10 1993	10.6 13.0 1997 8.74 1995	14.1 19.8 1996 10.5 1993	YEAR (WY) 96.9 205 1996 38.4 1995	230 404 1996 133 1998	99.4 266 1995 42.2 1994	41.8 75.1 1995 23.5 1994	25.4 32.2 1995 19.3 1994
SUMMARY	STATISTI	CS	FOR 1	.999 CALEN	IDAR YEAR	F	'OR 2000 WA'	TER YEAR		WATER YEA	ARS 1990	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN AN N MINIMUM AK FLOW AK STAGE C-FT) DS DS		18718.7 51.3 375 9.5 9.8 37130 162 18 10	Jun 26 Feb 11 Feb 25		16015.6 43.8 550 e9.5 e9.8 e600 b 31770 95 20	May 30 Mar 1 Feb 25 May 30 May 30		49.8 73.0 34.5 811 6.0 6.7 a1010 4.23 36110 138 18 9.9	Dec Feb Jun	1996 1994 8 1997 9 1994 8 1993 8 1997 8 1997

e Estimated.

a From rating curve extended above 517 $\mathrm{ft^3/s}$. b Gage height unknown.

07081200 ARKANSAS RIVER NEAR LEADVILLE, CO

LOCATION.--Lat $39^{\circ}15^{\circ}26^{\circ}$, long $106^{\circ}20^{\circ}35^{\circ}$, in $NW^{1}/_{4}NW^{1}/_{4}$ 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 September 1996.

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 fair 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.

		DISCHAR	GE, CUBIC	FEET PER		VATER YE MEAN VA	EAR OCTOBER	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	37 37 36 34 33	27 e27 e26 e25 e25	e22 e22 e22 e21 e20	e17 e18 e17 e16 e15	e19 e20 e20 e18 e18	e16 e16 e17 e17	18 17 16 17 19	91 111 144 165 200	472 406 381 340 312	104 102 100 93 85	44 43 42 42 38	46 43 39 37 36
6 7 8 9	33 38 40 39 37	e24 e24 e24 e24 e23	e19 e18 e20 e20 e20	e15 e15 e15 e15 e14	e18 e18 e18 e17	e17 e17 e17 e17 e17	20 20 22 26 28	238 246 246 183 156	285 277 270 263 227	79 80 85 104 97	37 35 34 33 31	39 40 40 43 40
11 12 13 14 15	35 34 33 32 32	e23 e23 e23 e22 e22	e20 e21 e20 e18 e17	e16 e17 e17 e16 e16	e17 e17 e17 e17 e17	e17 e17 e17 e17 e17	28 31 39 44 45	200 201 146 131	202 189 185 162 161	83 82 89 83 87	33 36 40 35 33	38 36 35 33 32
16 17 18 19 20	31 e30 32 32 31	e21 e21 e20 e20 e20	e16 e17 e18 e18 e18	e16 e16 e16 e17 e17	e17 e17 e17 e17 e17	e18 e18 e17 e17	45 60 70 61 59	145 194 145 128 131	164 146 134 156 232	115 125 109 87 77	34 36 40 38 37	31 31 31 31 30
21 22 23 24 25	30 29 29 28 28	e20 e20 e20 e19 e20	e17 e17 e18 e19 e19	e17 e17 e18 e17 e17	e17 e17 e17 e17 e17	16 16 16 16 15	73 67 57 62 62	136 178 301 503 559	159 134 129 123 124	71 66 62 60 58	41 47 46 46 43	32 46 41 38 36
26 27 28 29 30 31	27 27 26 28 e27 27	e21 e22 e21 e21 e22	e18 e18 e18 e18 e18 e18	e17 e17 e18 e18 e18 e18	e17 e17 e16 e16	15 16 17 16 16	84 120 107 110 110	447 317 343 571 725 589	131 141 125 113 107	56 56 54 51 49 46	45 46 43 49 55	35 33 33 34
TOTAL MEAN MAX MIN AC-FT	992 32.0 40 26 1970	670 22.3 27 19 1330	585 18.9 22 16 1160	513 16.5 18 14 1020	505 17.4 20 16 1000	514 16.6 18 15 1020	1537 51.2 120 16 3050 BY WATER	8001 258 725 91 15870	6250 208 472 107 12400	2495 80.5 125 46 4950	1252 40.4 55 31 2480	1092 36.4 46 30 2170
MEAN MAX (WY) MIN (WY)	26.9 38.3 1971 16.5 1978	21.4 28.9 1971 11.6 1977	16.6 21.7 1983 11.6 1978	14.8 19.0 1996 9.15 1977	14.5 20.5 1973 7.93 1978	15.3 20.8 1971 8.82 1974	30.3 52.9 1989 12.7 1970	169 412 1996 55.3 1981	351 707 1997 114 1977	139 382 1995 35.9 1977	61.6 138 1997 23.8 1977	35.1 55.8 1982 16.7 1974
SUMMARY	STATISTI	CS	FOR 1	.999 CALEN	DAR YEAR	F	FOR 2000 WA	TER YEAR		WATER YEA	ARS 1968	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN AN N MINIMUM AK FLOW AK STAGE C-FT) DS		29950 82.1 539 11 12 59410 285 32 13	Jun 25 Jan 29 Jan 27		24406 66.7 725 14 15 b1070 4.12 48410 160 31 17	May 30 Jan 10 Jan 4 May 30 May 30		75.6 120 32.4 1120 a7.0 51360 4.38 54790 217 27 13	Feb Feb Jun	1997 1977 8 1997 3 1978 3 1978 9 1997 9 1997

e Estimated.

a Also occurred Feb 4-20, 1978. b From rating curve extended above 944 ${\rm ft}^3/{\rm s}$.

07083000 HALFMOON CREEK NEAR MALTA, CO

LOCATION.--Lat $39^{\circ}10^{\circ}20^{\circ}$, long $106^{\circ}23^{\circ}19^{\circ}$, in $\mathrm{SE}^{1}/_{4}\mathrm{SE}^{1}/_{4}$ 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 since April 1996. Water-quality data available, November 1966 to March 1996 (Hydrologic Benchmark station). Daily record for water temperature 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.

		DISCHA	RGE, CUBI	C FEET PER		WATER YE MEAN VA	AR OCTOBER	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	24 22 21 20 19	e13 e13 e14 e14 e13	e7.9 e7.8 e7.7 e7.5 e7.3	e6.5 e6.5 e6.4 e6.4	e5.7 e5.7 e5.7 e5.4 e5.1	e4.1 e4.1 e4.1 e3.9 e3.9	e4.0 e3.9 e4.1 e4.3 e4.8	21 26 39 54 67	167 159 151 148 145	65 64 61 57 52	22 21 21 20 19	28 26 24 22 23
6 7 8 9 10	20 22 21 21 20	e13 e14 e13 e12 e12		e6.4 e6.4 e6.4 e6.3					142 140 145 143 120	50 51 53 63 54	19 18 17 17	24 24 24 26 22
11 12 13 14 15	19 18 17 16 16	e12 e11 e11 e11 e11	e6.1 e5.9 e5.6 e5.5	e6.3 e6.3 e6.3 e6.3	e4.5 e4.3 e4.3 e4.3 e4.3	e3.9 e4.2 e4.1 e4.0 e4.1	e6.3 e6.5 e7.2 8.6 8.5	53 49 39 34 33	106 100 96 91 98	49 48 45 46 51	19 23 26 22 21	20 19 18 17 17
16 17 18 19 20	e16 e16 e16 e16 e15	e11 e10 e9.5 e9.0	e5.5 e5.5 e5.6	e6.3 e6.2 e6.2 e6.2 e6.2	e4.3 e4.2 e4.2	e4.2 e4.0 e4.0 e3.9 e3.9	8.3 9.6 11 9.6 9.7	37 45 34 31 32	95 83 77 91 97	96 89 68 58 50	28 30 29 28 26	16 15 16 15 14
21 22 23 24 25	e15 e15 e14 e14 e14	e8.5 e8.3 e8.1 e8.0 e8.0	e5.7 e5.8 e5.9 e6.0 e6.1	e6.2 e6.1 e5.9 e5.7 e5.6	e4.3 e4.1 e4.1 e4.2 e4.0	e4.1 e3.9 e3.9 e4.1 e4.0	10 11 11 10 11	36 58 110 143 126	80 74 72 71 71	45 40 37 34 32	26 27 28 29 32	17 26 21 19 18
26 27 28 29 30 31	e13 e13 e13 e13 e13 e13	e8.0 e8.0 e8.0 e7.9	e6.2 e6.3 e6.4 e6.5 e6.5	e5.7 e5.5 e5.4 e5.2 e5.2 e5.5	e4.1 e4.2 e4.2 e4.1	e4.1 e4.2 e4.2 e4.2 e4.1 e3.8	11 15 21 24 25	92 71 106 166 186 189	82 81 78 71 68	32 29 28 26 25 23	33 32 29 31 29 29	17 16 15 16 15
TOTAL MEAN MAX MIN AC-FT	525 16.9 24 13 1040	318.3		188.8 6.09 6.5 5.2 374			280.9 9.36 25 3.9 557	2180 70.3 189 21 4320	3142 105 167 68 6230	1521 49.1 96 23 3020	769 24.8 33 17 1530	590 19.7 28 14 1170
STATIST							BY WATER					
MEAN MAX (WY) MIN (WY)	11.3 24.5 1962 6.23 1956	7.64 16.6 1962 4.40 1992	5.16 9.65 1996 3.19 1993	4.11 9.03 1996 1.65 1977	3.75 7.90 1986 1.70 1948	3.77 10.8 1947 1.20 1948	6.82 13.8 1989 2.70 1973	45.3 79.1 1996 17.7 1995	131 208 1980 61.2 1977	85.3 247 1995 22.9 1977	35.8 128 1995 14.3 1950	18.1 44.3 1961 8.03 1974
SUMMARY	STATIST	CICS	FOR	1999 CALEN	DAR YEAR	F	OR 2000 WA	TER YEAR		WATER YEA	ARS 1946	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ANNUAL DAILY ME SEVEN-DA TANEOUS F	MEAN MEAN MAN MEAK FLOW MEAK STAGE AC-FT) MEDS MEDS MEDS		14443.3 39.6 326 2.9 2.9 28650 114 12 3.4	Jun 24 Mar 15 Mar 15		9967.5 27.2 189 3.8 4.0 245 3.07 19770 73 14 4.2	May 31 Mar 31 Mar 4 May 30 May 30		29.9 55.3 14.3 410 a1.1 1.2 b615 c3.77 21660 89 9.0 3.2		1995 1977 12 1995 1 1948 30 1984 30 1984
e Esti	mated.											

e Estimated.

Estimated
 Also occurred Apr 2, 1948.
 From rating curve extended above 254 ft³/s.
 Maximum gage height for period of record, 4.32 ft, Apr. 24, 1965, backwater from ice.

07086000 ARKANSAS RIVER AT GRANITE, CO

LOCATION.--Lat $39^{\circ}02'34"$, long $106^{\circ}15'55"$, in $SE^{1}/_{4}SW^{1}/_{4}$ 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.

		DISCHA	RGE, CUBI	C FEET PE		WATER Y	EAR OCTOBER ALUES	1999 TO	SEPTEMBI	ER 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	244	144	107	196	e186	195	100	352	2220	612	567	199
2	222	134	110	193	e188	196	94	377	2170	601	575	166
3	219	134	107	e191	189	195	94	442	2240	602	567	155
4	213	133	e99	e194	189	198	104	414	2220	589	572	152
5	214	133	e111	200	e186	198	132	449	2100	576	565	149
6	192	130	e113	e190	189	195	155	508	1980	571	561	151
7	192	129	e116	e185	183	195	149	544	1820	582	557	146
8	207	132	119	187	188	194	146	564	1700	610	556	145
9	199	134	e118	189	187	194	162	600	1520	633	551	151
10	194	122	126	190	189	193	172	661	1280	617	547	140
11	185	123	137	193	188	192	156	706	1220	590	556	133
12	178	122	140	198	185	195	156	723	1320	578	573	130
13	177	117	138	190	191	193	178	657	1330	586	587	127
14	172	115	e120	192	192	194	189	637	1120	570	569	126
15	169	115	e134	192	197	195	188	629	919	555	508	131
16	166	114	e140	194	197	195	162	735	970	617	317	125
17	163	121	e179	195	201	195	192	1020	1080	644	157	123
18	173	127	e245	199	198	195	226	1110	1050	615	176	121
19	172	104	e240	201	196	195	206	1120	1050	573	161	123
20	160	112	e248	195	e194	194	181	1110	1150	554	149	121
21	150	112	e250	193	198	191	210	1110	1130	561	173	125
22	146	121	e253	200	196	188	207	1080	1150	580	219	186
23	144	e119	e245	189	198	191	193	1210	1150	569	252	164
24	140	e118	e242	189	198	193	202	1570	1130	562	243	156
25	140	139	e240	197	196	194	178	1640	1130	565	236	150
26 27 28 29 30 31	138 135 133 146 135 143	e123 e118 114 109 110	e225 e215 204 199 196 e198	201 200 e190 e188 191 196	193 e190 195 194 	198 204 206 149 113 104	194 273 373 387 388	1640 1570 1500 1670 2030 2270	1110 995 870 802 659	563 542 567 561 554 547	236 235 247 286 312 274	146 145 138 139 138
TOTAL	5361	3678	5314	5998	5571	5827	5747	30648	40585	18046	12084	4301
MEAN	173	123	171	193	192	188	192	989	1353	582	390	143
MAX	244	144	253	201	201	206	388	2270	2240	644	587	199
MIN	133	104	99	185	183	104	94	352	659	542	149	121
AC-FT	10630	7300	10540	11900	11050	11560	11400	60790	80500	35790	23970	8530
STATIS	TICS OF MO	ONTHLY ME	AN DATA F	OR WATER	YEARS 1910	- 2000	, BY WATER	YEAR (WY)	1			
MEAN	157	129	108	107	113	130	239	699	1284	903	538	245
MAX	356	337	448	419	526	500	667	1711	2146	2367	1239	546
(WY)	1977	1983	1983	1983	1985	1985	1962	1984	1984	1983	1984	1961
MIN	82.4	64.3	48.5	39.8	45.0	55.0	97.1	191	432	217	151	104
(WY)	1932	1945	1977	1918	1919	1919	1933	1935	1934	1934	1934	1990
SUMMAR	Y STATIST	ICS	FOR	1999 CALE	NDAR YEAR		FOR 2000 WA	TER YEAR		WATER Y	EARS 1910	- 2000
LOWEST HIGHES' LOWEST ANNUAL INSTAN' INSTAN' ANNUAL 10 PERO 50 PERO		EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS		143467 393 1920 78 101 284600 921 279 123	Jun 26 Apr 11 Apr 9		143160 391 2270 94 106 2340 5.43 284000 1060 195 123	May 31 Apr 2 Mar 30 May 31 May 31		389 687 188 4990 11 31 5360 7.2 282000 1050 173 74	Jun 3 Mar 1 Jun 1 Jun 2 0 Jun 2	1984 1934 0 1957 5 1918 0 1918 8 1957 8 1957

e Estimated.

07086000 ARKANSAS RIVER AT GRANITE, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: October 1993 to current year. WATER TEMPERATURE: October 1993 to current year.

 ${\tt INSTRUMENTATION.--Water-quality}\ {\tt monitor}\ {\tt with}\ {\tt satellite}\ {\tt telemetry}.$

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

EXTREMES FOR PERIOD OF RECORD. --

NAMED FOR PERIOD OF MECKEY.

SPECIFIC CONDUCTANCE: Maximum, 249 microsiemens, Jan. 16, 1996 and Oct. 1, 1997; minimum, 65 microsiemens, July 5-6, 1998.

WATER TEMPERATURE: Maximum, 18.8°C, Aug. 2, 1999; minimum, 0.0°C, many days.

EXTREMES FOR CURRENT YEAR. --

REPRESE FOR CONDUCTANCE: Maximum, 220 microsiemens, Nov. 11; minimum, 63 microsiemens, June 10. WATER TEMPERATURE: Maximum, 18.1° C, Aug. 8-9, 13; minimum 0.0° C, many days.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	VEMBER		DE	CEMBER			JANUARY	
1 2 3 4 5	157 154 155 154 164	143 151 150 149 150	150 153 152 152 156	201 213 217 208 211	183 180 186 187 183	187 189 194 194 191	195 197 199 188 192	176 185 180 174 171	183 192 189 184 185	127 127 124 121 121	117 119 117 114 114	121 123 121 117 117
6 7 8 9 10	185 189 193 176 174	153 177 175 168 167	171 182 181 172 170	210 210 212 216 219	180 179 180 181 191	186 185 187 193 197	200 193 191 197 186	170 177 181 183 181	188 186 186 193 183	121 120 123 122 123	114 112 117 121 120	118 118 119 121 122
11 12 13 14 15	173 182 185 184 182	168 169 177 178 173	171 176 181 181 176	220 208 203 203 204	193 185 182 176 179	199 193 186 183 183	184 187 186 184 193	181 180 179 177 168	182 185 182 180 181	123 129 127 131 124	120 123 124 120 119	122 125 125 127 122
16 17 18 19 20	175 187 176 190 209	167 161 162 170 173	170 168 168 175 183	207 210 203 195 188	179 188 189 176 179	187 194 194 189 184	 		 	124 119 126 132 133	119 111 115 126 129	121 115 121 128 131
21 22 23 24 25	208 199 199 200 199	187 182 175 174 175	192 188 181 181 181	188 184 189 214 204	177 175 177 182 181	182 179 183 199 195	 		 	132 124 122 120 125	124 122 120 118 118	129 123 121 119 122
26 27 28 29 30 31	212 212 215 203 210 211	181 192 192 186 177 183	191 197 197 191 186 188	187 182 180 180 186	168 169 172 173 175	177 177 177 177 180	127 123 119 121 121	110 114 109 114 114	117 116 114 117 117	130 130 129 123 123 122	125 126 119 119 116 118	127 127 124 121 120 120
MONTH	215	143	176	220	168	187				133	111	122

ARKANSAS RIVER BASIN

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SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	128 129 130 125 122	118 124 125 121 117	122 126 128 123 120	120 119 118 118 118	115 116 113 113 114	117 117 116 115 115	162 168 168 186 184	144 149 157 162 174	151 157 163 173 180	113 115 115 112 113	107 112 105 105 105	110 113 109 109 108
6 7 8 9 10	123 123 130 129 127	119 117 119 122 120	121 120 122 125 125	116 123 127 125 119	114 115 120 117 116	115 118 123 122 118	184 175 171 170 168	173 168 165 163 160	176 171 168 167 162	107 104 104 106 93	99 98 97 92 92	101 100 99 99 92
12	121 123 119 120 124	119 116 117 117 117	120 119 118 118 120	118 118 117 120 122	112 115 111 114 120	115 116 114 117 121	175 182 181 167 163	160 166 161 158 155	167 175 167 162 158	97 90 92 91 91	89 86 86 89 90	93 87 88 90 90
16 17 18 19 20	128 128 124 121 121	118 123 116 113 110	122 125 121 117 114	122 119 119 117 118	118 113 115 108 115	120 117 117 114 116	168 167 161 159 167	155 158 152 152 154	161 162 158 154 160	94 79 76 76 75	79 76 74 74 74	88 77 75 75 75
21 22 23 24 25	120 120 127 123 121	113 115 118 115 112	116 117 120 120 116	124 123 124 124 121	116 119 120 118 118	120 121 121 120	153 151 154 156	143 147 149	154 146 146 150 152	75 78 82 80 77	73 74 75 75 73	74 75 79 78 75
26 27 28 29 30 31	121 124 117 119 	113 112 113 114 	117 115 115 116 	122 128 132 163 158 147	119 122 128 129 145 144	121 125 130 141 149 145	166 165 140 116 112	152 131 112 108 108	159 146 123 111 110	74 74 77 77 75 69	72 72 74 72 69 67	73 73 75 75 72 68
MONTH	130	110	120	163	108	121	186	108	156	115	67	87
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	JULY			AUGUST			SEPTEMBE	
DAY 1 2 3 4 5	MAX 69 68 67 67 68		MEAN 68 68 66 66	MAX 88 86 87 85 85	JULY	MEAN 86 85 85 84 83	86	AUGUST	MEAN 83 84 85 84 82			
1 2 3 4	69 68 67 67	JUNE 67 67 65 65 66	68 68 66 66	88 86 87 85 85 87 93 104 99	JULY 83 83 83 82 81 82 81 82 82 82 88	86 85 85 84 83	86 85 86 85 83	81 82 83 81 80	83 84 85 84	166 165 166 166	142 156 159 163 164 170 182 186	153 161 162 164
1 2 3 4 5 6 7 8	69 68 67 67 68 68 68 69 71	JUNE 67 67 65 66 66 66 66 65 64 63	68 68 66 66	88 86 87 85 85 87 93 104 99	JULY 83 83 83 82 81 82 81 82 82 82 88	86 85 85 84 83 85 86 96 94	86 85 86 85 83 83 82 85	81 82 83 81 80 80 79 79 82 82	83 84 85 84 82 81 81 83 83	166 165 166 166 174 186 193 193	142 156 159 163 164 170 182 186 177	153 161 162 164 170 178 188 189 190
1 2 3 4 5 6 7 8 9 10	69 68 67 67 68 68 68 69 71 66	JUNE 67 67 65 65 66 66 66 65 64 63 64 64 64 64 70	68 68 66 66 66 67 68 64 65 64 65 68 73	88 86 87 85 85 87 93 104 99 92 93 91 92 98	JULY 83 83 83 82 81 82 81 82 82 88 89 88 88 89 88	86 85 85 84 83 85 86 94 90 91 91 94 95	86 85 85 83 83 82 85 85	81 82 83 81 80 80 79 82 82 82 81 83 83 82	83 84 85 84 82 81 81 83 83 84 83 85 85 87	166 165 166 166 174 186 193 187 179 178 192 195 195	142 156 159 163 164 170 182 186 177 175 174 175 186 183 173	153 161 162 164 170 178 188 190 180 177 177 187 191 190 177
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	69 68 67 67 68 68 69 71 66 65 66 77 70 70	JUNE 67 67 65 65 66 66 65 65 64 64 64 70 68 68 68 68	68 68 66 66 66 67 66 67 68 64 65 68 73 71 69 69	88 86 87 85 85 87 93 104 99 92 93 91 92 98 98	JULY 83 83 83 82 81 82 82 91 89 88 88 89 88 89 88 81 00 99	86 85 85 84 83 85 86 96 94 90 91 90 91 94 95	86 85 86 85 83 83 82 85 85 85 84 87 83 92 116 168	81 82 83 81 80 80 79 79 82 82 81 81 83 82 82 92 102 156	83 84 85 84 82 81 83 83 84 83 82 85 83 87	166 165 166 166 174 186 193 193 187 179 178 192 195 183 178 179 181 193	SEPTEMBI 142 156 159 163 164 170 182 186 177 175 174 175 186 183 173 172 174 176 176	153 161 162 164 170 178 188 190 180 177 177 191 190 177
1 2 3 4 5 5 6 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	69 68 67 67 68 68 69 71 66 66 77 70 70 70 77 80	JUNE 67 67 65 65 66 66 65 64 64 64 70 68 68 68 68 74 73 71 69	68 68 66 66 66 67 66 67 68 64 65 68 73 71 77 77 74 73 71 71 69	88 86 87 85 85 87 93 104 99 92 93 91 92 98 98 102 116 100 100 100 87 86	JULY 83 83 83 82 81 82 91 89 88 88 89 88 89 93 95 98 1000 99 97	86 85 85 84 83 85 86 94 90 91 90 91 91 95 100 104 104 100 99	86 85 85 83 83 82 85 85 85 84 87 83 92 116 166 165 164 151 144	81 82 83 81 80 80 79 79 82 82 82 81 81 83 82 92 102 156 159	83 84 85 84 82 81 83 83 83 84 83 87 101 134 161 161 162 159 150 146 143	166 165 166 166 174 186 193 193 187 179 178 192 195 195 181 178 179 181 193 194	SEPTEMBI 142 156 159 163 164 170 182 186 177 175 186 183 173 172 174 176 188 177 178 188	153 161 162 164 170 178 188 190 180 177 191 190 177 177 191 190 177 178 189 191 179 178 184 179 173

07086000 ARKANSAS RIVER AT GRANITE, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1 2 3 4 5	11.5 11.0 11.6 11.7 11.9	6.7 6.4 6.0 4.9 4.8	9.0 8.6 8.6 8.1 8.3	6.7 6.0 5.7 4.2 5.6	1.2 .0 .0 .0	3.9 3.0 3.0 2.3 2.9	3.0 2.4 .7 .2	.0	1.2 1.4 .1 .0	2.4 1.8 1.1 1.8 1.9	.3 .0 .0 .0	1.0 .7 .2 .6
6 7 8 9 10	10.5 8.5 10.9 11.6 11.6	6.8 5.9 3.9 4.3 4.4	8.5 7.0 7.2 7.8 7.9	5.8 5.6 6.0 6.1 5.3	.0 .0 .0 .9	3.0 3.2 3.6 2.8	.0 .0 .0	.0 .0 .0	.0	2.0 2.4 2.4 2.1 1.9	.0 .0 .0 .4 .6	.4 .7 .9 .9
12 13	11.4 10.9 9.6	4.5 4.3 4.1 4.1 3.7	8.0 7.7 7.6 7.4 6.8	5.2 5.1 4.7 4.7	.0 .0 .0	2.8 2.6 2.3 2.3 2.4	.0 .0 .0	.0	.0	2.4 1.8 2.9 2.8 3.4	.9 .4 .0 .0	1.4 1.2 1.0 1.0
16 17 18 19 20	7.2 6.7 5.5 7.4 7.6	2.2 .5 1.8 1.6 1.2	4.3 3.3 3.7 4.4 4.4	4.8 5.3 4.6 3.2 3.6	.0 .0 .4 .0	2.4 3.0 2.7 1.1 1.6	.0 .0 .0	.0 .0 .0		3.3 3.6 2.7 3.3 3.4		1.6 1.8 1.7 1.8
21 22 23 24 25	7.9 7.9 8.0 7.9 7.5	.6 .9 .8 .7	4.4 4.5 4.5 4.3	2.4 1.4 .0 .0	.0 .0 .0	.6 .4 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0 .0	3.4 2.9 2.5 1.7 2.2	.6 .7 .0 .0	.9
26 27 28 29 30 31	7.5 7.5 6.6 5.4 5.7 7.0	.8 .9 .7 2.0 .0	4.3 4.3 4.0 3.7 2.8 3.7	.0 .0 .0 2.6 2.7 3.2 3.5 3.0	.0 .0 .0 .0	.7 1.1 1.4 1.4	1.6 1.8 2.4 2.4 2.5 2.5	.0 .0 .0 .0	.4 .5 .7 .7 .8	3.2 1.8 2.2 1.2 1.3	.6 .0 .0 .0	1.4 .9 .4 .2 .2
MONTH	11.9	.0	5.9	6.7	.0	2.0	3.0	.0	.2	3.6	.0	1.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	3.1	.0 .0 .0 .1	.9 1.0	2.4 2.8 4.3 4.6 2.5	.0 .8 .1 .0	.8 1.4 1.5 1.4	6.9 4.4 6.5 10.5	.0 .2 .3 .6 2.4	2.7 2.3 2.9 5.2 6.4	11.6 13.1 13.1 13.9 13.8	4.0 5.2 6.1 6.2 5.9	7.5 9.2 9.7 10.0 9.9
6 7 8 9 10	3.4 3.5 2.4 2.1		1.0 1.0 .9 1.1	3.1 4.3 3.8 5.7 4.3	.0 .8 .0 .4	1.3 1.8 1.3 2.1	10.2 8.9 9.8 11.0 7.8	3.5 2.1 .2 1.1 1.6	6.6 5.4 4.9 6.1 5.0	12.6 10.8 9.4 11.2 12.6	5.9 6.2 5.9 4.1 7.4	9.5 8.7 7.0 7.6 9.8
11 12 13 14 15	2.9 3.0 1.8 3.1 3.5	.2 .0 .5 .6	1.2 .9 1.0 1.3	4.2 3.5 5.0 5.6 2.8	.0 .9 .0 .0	1.4 1.7 1.8 2.0 1.5	9.0 11.4 10.8 9.5 7.0	2.3 2.4 1.7 2.3 3.0	5.4 7.0 6.5 6.3 4.8	11.7 8.7 9.4 10.2 10.6	7.3 5.4 3.9 5.8 6.8	9.4 7.0 6.6 8.1 8.7
16 17 18 19 20	3.8 2.6 3.0 2.9 2.8	.0 .6 .2 .0	1.2 1.2 1.2 .7	5.3 5.9 3.8 5.6 2.2	.0 .0 .0	2.0 2.2 1.3 2.0 1.3	11.8 12.8 9.5 6.1 11.9	1.8 3.3 2.5 1.6 1.2	6.4 8.2 6.5 3.0 6.1	11.5 8.8 7.6 9.6 9.7	7.0 6.2 5.8 6.4 7.5	9.1 7.2 6.7 7.9 8.5
21 22 23 24 25	4.0 1.0 4.0 3.2 1.5	.3 .2 .0 .4	1.4 .6 1.4 1.3	4.1 1.9 6.7 6.4 6.3	.0 .1 .1 1.0	1.3 1.0 2.8 3.1 3.1	8.7 6.2 9.5 10.5 11.7	2.5 2.6 2.1 3.5 1.3	6.2 4.0 5.3 6.8 6.6	10.0 11.6 12.2 11.2 9.8	6.9 7.8 8.0 8.2 7.4	8.6 9.7 10.2 9.7 8.9
26 27 28 29 30 31	2.0 4.2 3.5 3.9	.0 .5 .2	.5 1.3 1.4 1.3	4.7 7.5 4.8 7.9 5.5 2.7	1.7 .6 1.5 .9 1.3	2.8 3.6 2.9 4.0 3.4	13.1 13.2 10.6 9.8 8.3	3.8 4.3 4.8 4.9 5.8	8.6 9.0 8.2 7.8 6.9	9.5 11.6 12.8 13.2 12.9 12.8	7.4 7.3 8.5 9.0 8.3 8.8	8.6 9.4 10.7 11.1 10.8 10.9
MONTH	4.2	.0	1.0	7.9	.0	1.9	13.2	.0	5.9	13.9	3.9	8.9

07086000 ARKANSAS RIVER AT GRANITE, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		į	AUGUST			SEPTEMBE	R
1 2 3 4 5	11.9 12.6 12.8 13.3 12.3	9.1 9.2 9.4 9.1 9.2	10.7 10.7 11.1 11.2 10.9	15.2 15.2 16.1 16.1 16.0	11.6 11.8 12.1 12.0 11.8	13.3 13.5 14.0 14.1 14.0	17.4 17.6 17.2 17.1 17.3	13.6 14.3 14.6 14.1 14.5	15.3 15.7 15.6 15.6 16.0	15.2 17.0 16.4 17.8 17.3	11.0 9.7 9.0 9.9 11.0	13.2 13.2 12.8 13.8 14.1
6 7 8 9 10	13.7 13.9 12.5 13.3 12.7	9.1 9.2 9.0 8.7 6.9	11.3 11.5 11.0 10.8 9.8	16.6 15.5 16.4 16.7 16.9	11.6 12.8 12.8 13.1 12.7	14.1 14.1 14.2 14.7 14.7	17.8 17.2 18.1 18.1 17.7	14.2 14.7 14.2 14.6 14.2	16.0 16.0 16.2 16.2 15.8	14.2 16.6 14.1 15.8 16.2	10.2 8.5 9.6 8.0 7.7	12.2 12.1 11.8 11.7 12.0
11 12 13 14 15	12.7 13.4 12.8 13.7 14.7	6.9 7.8 8.8 7.6 7.8	10.0 10.6 10.7 10.5 11.1	17.8 15.5 16.3 17.3 16.9	13.1 13.3 12.8 13.2 13.0	15.2 14.5 14.6 14.9 14.7	17.0 16.5 18.1 17.3 17.9	14.7 14.6 13.9 14.6 14.6	15.8 15.4 15.9 16.0 16.1	14.8 15.9 16.2 15.2 16.4	7.5 7.1 7.5 8.1 8.3	11.3 11.4 11.9 11.9 12.3
16 17 18 19 20	14.0 13.7 13.4 11.9 13.8	7.9 9.1 9.0 10.2 9.0	11.0 11.2 11.3 11.0 11.3	16.5 16.5 17.5 17.5	13.0 13.3 12.9 12.9 13.1	14.7 14.9 15.3 15.3	16.8 17.3 16.6 17.8 16.9	13.8 11.3 11.8 11.6 11.6	15.4 14.2 14.2 14.9 14.4	16.6 14.1 14.6 15.1 14.7	7.8 8.9 9.7 7.8 9.0	12.4 11.8 11.9 11.4 11.6
21 22 23 24 25	14.3 14.6 13.7 13.6 13.6	9.5 10.8 11.6 10.7 10.8	12.1 12.8 12.7 12.3 12.3	17.9 17.6 17.7 16.6 17.4	13.1 13.7 14.0 13.5 13.9	15.5 15.8 15.9 15.3 15.7	15.8 17.3 16.4 16.8 17.2	10.4 11.0 10.8 11.5 12.0	13.4 14.0 13.8 14.3 14.7	12.0 14.4 11.1 9.9 11.2	6.8 7.5 6.5 4.8 2.6	9.3 10.6 8.9 7.1 6.9
26 27 28 29 30 31	12.4 13.3 14.7 15.7 15.9	11.1 10.5 10.6 12.5 11.9	11.7 11.8 12.7 13.9 13.6	16.5 16.8 16.8 16.5 16.0	14.0 13.6 13.8 13.7 13.2	15.2 15.0 15.2 15.0 14.7 15.0	16.7 16.9 17.7 18.0 16.0	12.0 11.7 12.0 13.7 12.8 11.9	14.4 14.3 14.8 15.6 14.5	12.0 12.0 11.5 13.0 13.4	3.5 4.3 5.3 6.8 6.7	7.9 8.4 8.7 9.5 10.0
MONTH	15.9	6.9	11.5	17.9	11.6	14.8	18.1	10.4	15.1	17.8	2.6	11.1

07087050 ARKANSAS RIVER BELOW GRANITE, CO

LOCATION.--Lat $38^\circ59^\circ42^\circ$, long $106^\circ13^\circ11^\circ$, in $SW^1/_4NW^1/_4$ sec.22, T.12 S., R.79 W., Chaffee County, Hydrologic Unit 11020001, on right bank 500 ft east of U.S. Highway 24, 1.0 mi downstream from Pine Creek, and 4.8 mi southeast of Granite.

DRAINAGE AREA. -- 546 mi².

PERIOD OF RECORD. -- March 1999 to current year (seasonal records only).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,620 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, and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Qaulity Data for Gaging Staions" section of this report.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge 3,280 ft³/s, May 31, 2000, gage height, 8.06 ft, from rating curve extended above 3,260 ft³/s; minimum daily discharge, 115 ft³/s, Apr. 10-12, 1999.

EXTREMES FOR CURRENT YEAr (seasonal only).--Maximum discharge, 3,280 ${\rm ft}^3/{\rm s}$ at 1315 May 31, gage height, 8.06 ft; from rating curve extended above 3,260 ${\rm ft}^3/{\rm s}$; minimum daily discharge, 133 ${\rm ft}^3/{\rm s}$, Apr. 2.

		DISCHARGE	, CUBIC	FEET PER		WATER YE MEAN VA		1999 T) SEPTEMBER	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							135	416	3050	838	670	254
2							133	471	2920	827	684	211
3							137	573	2930	832	674	198
4							137	568	2910	811	687	193
5							157	671	2830	814	679	191
J							10,	0,1	2030	011	0,5	-7-
6							178	759	2670	916	674	194
7							171	789	2470	916	672	190
8							158	797	2230	960	702	187
9							170	825	2070	985	692	197
10							192	888	1810	973	644	182
11							179	890	1690	938	650	175
12							178	917	1720	934	673	171
13							200	844	1710	940	698	168
14							212	812	1450	914	710	167
15							216	773	1230	883	638	174
							220		1230	005	050	
16							190	896	1280	980	410	166
17							217	1270	1410	1090	216	163
18							254	1380	1350	1070	239	162
19							233	1420	1310	803	223	163
20							206	1390	1490	707	210	156
20							200	1000	1170	, , ,	210	150
21							235	1380	1460	704	232	157
22							234	1350	1450	731	285	234
23							221	1640	1430	710	319	200
24							237	e2310	1420	685	309	190
25							212	e2420	1420	689	295	182
26							227	2430	1410	684	297	180
27							308	2260	1280	662	297	178
28							428	2130	1120	695	307	172
29							443	2480	1040	663	364	174
30							441	2890	870	646	398	172
31								3160		647	353	
-												
TOTAL							6639	41799	53430	25647	14901	5501
MEAN							221	1348	1781	827	481	183
MAX							443	3160	3050	1090	710	254
MIN							133	416	870	646	210	156
AC-FT							13170	82910	106000	50870	29560	10910

e Estimated.

07091200 ARKANSAS RIVER NEAR NATHROP, CO

LOCATION.--Lat $38^\circ39^\circ08^\circ$, long $106^\circ03^\circ02^\circ$, in $\mathrm{SE}^1/_4\mathrm{SW}^1/_4$ 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 Apr. 7 to May 19 and estimated daily discharges, which are poor. 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (occurred during period of seasonal record), 5,540 ft³/s, July 14, 1995, gage height, 8.63 ft, from rating curve extended above 5,500 ft³/s; 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 (seasonal only).--Maximum discharge, 3,260 ft³/s at 0500 May 31, gage height, 7.23 ft; minimum daily discharge, 260 ft³/s (estimated), April 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

					DAILY	MEAN VA	LUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							e265	468	3010	904	729	395
2							e260	487	2840	889	767	339
3							e265	575	2800	890	744	325
4							e265	645	2810	875	759	317
5							e285	742	2710	848	e750	315
3							0203	, 12	2,10	010	0,50	313
6							e295	876	2580	917	e740	320
7							292	908	2390	930	e730	315
8							276	937	2210	993	756	311
9							278	866	2010	986	756	327
10							290	944	1830	1000	716	312
11							291	931	1650	954	698	299
12							277	969	1680	970	729	291
13							286	898	1680	969	765	285
14							294	841	1550	954	773	282
15							301	790	1280	932	765	286
16							285	794	1260	1020	e650	284
17							287	1160	1420	1150	e460	282
18							321	1290	1360	1150	390	281
19							325	1360	1310	950	394	281
20							296	1330	1450	804	367	274
21							307	1320	1450	770	364	270
22							316	1320	1420	792	415	316
23							305	1480	1400	777	436	325
24							317	2320	1400	745	433	311
25							300	2530	1400	754	424	303
										= 4.0		
26							303	2400	1450	748	428	300
27							337	2200	1370	735	423	296
28							456	2090	1180	766	405	291
29							514	2440	1120	752	441	280
30							511	2840	958	721	474	285
31								3130		725	473	
moma r							0.400	41003	E2070	27270	10154	0000
TOTAL							9400	41881	52978	27370	18154	9098
MEAN							313	1351	1766	883	586	303
MAX							514	3130	3010	1150	773	395
MIN							260	468	958	721	364	270
AC-FT							18640	83070	105100	54290	36010	18050

e Estimated.

07091200 ARKANSAS RIVER NEAR NATHROP, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- April 1989 to September 1993, April 1996 to current year (seasonal records 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 records only).

INSTRUMENTATION. -- Water-temperature probe with satellite telemetry.

REMARKS.--Records for daily 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, 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 (occurred during period of seasonal record), 20.6°C, Sept. 8, 1998; minimum, 0.0°C on many days.

EXTREMES FOR CURRENT YEAR . --

WATER TEMPERATURE (seasonal only): Maximum, 19.4°C, July 23; minimum, 3.6°C, Apr. 12.

			•									
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DE	CEMBER			JANUARY	
1												
2												
3												
4												
5												
6												
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24												
25												
26												
27												
28												
20 29												
30												
31												
MONTH												

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07091200 ARKANSAS RIVER NEAR NATHROP, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1												
2												
3										14.4	8.9	11.8
4										14.5	9.5	12.1
5										14.3	9.5	12.0
6										13.6	9.5	11.6
7										13.1	9.3	11.2
8 9							11.0 11.3	4.5 4.5	7.6 7.6	11.5 11.8	8.5 6.6	9.6 9.1
10							9.6	5.3	7.4	13.1	9.4	11.3
11							8.0	5.3	6.6	12.8	10.1	11.5
12 13							10.3 10.6	3.6 4.9	6.8 7.8	11.2 9.8	8.1 6.4	9.6 8.2
14							10.2	5.6	8.0	11.5	7.7	9.6
15							9.3	6.4	7.6	12.2	8.6	10.4
16							11.8	4.7	7.9	12.5	9.8	11.2
17							11.8	5.6	8.8	11.5	8.7	9.9
18							10.1	6.7	8.6	9.1	7.5	8.3
19							8.8	5.5	7.3	10.2	8.3	9.2
20							11.0	4.1	7.4	11.9	8.4	10.1
21							9.8	5.4	8.0	12.0	8.4	10.3
22							9.1	6.3	7.8	13.8	9.1	11.5
23							11.2	6.5	8.6	14.7	10.6	12.6
24							10.8	6.9	8.5	13.2	10.7	11.9
25							12.0	5.1	8.3	11.7	9.7	10.7
26							12.8	6.0	9.4	10.6	9.3	9.9
27										12.7	8.7	10.7
28 29										14.0 13.8	10.1 11.0	12.0 12.5
30										13.7	10.5	12.3
31										13.5	10.7	12.3
MONTH												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN		MIN AUGUST	MEAN	MAX	MIN SEPTEMBE	
		JUNE			JULY			AUGUST			SEPTEMBE	IR.
1	13.4	JUNE 10.7	12.2	17.3	JULY 14.0	15.9	17.2	AUGUST	16.4	15.9	SEPTEMBE	14.3
	13.4 13.3	JUNE	12.2 12.1	17.3 17.1	JULY 14.0 14.4	15.9 15.9	17.2 17.3	AUGUST 15.2 15.0	16.4 16.2	15.9 17.6	12.3 11.7	14.3 14.6
1 2 3 4	13.4 13.3 13.4 13.4	JUNE 10.7 11.0	12.2	17.3 17.1 17.7 18.1	JULY 14.0	15.9	17.2 17.3 17.8 18.4	AUGUST	16.4 16.2 16.6 16.4	15.9 17.6 14.9 18.3	SEPTEMBE	14.3 14.6 12.9 14.2
1 2 3	13.4 13.3 13.4	JUNE 10.7 11.0 11.2	12.2 12.1 12.4	17.3 17.1 17.7	JULY 14.0 14.4 14.7	15.9 15.9 16.2	17.2 17.3 17.8	AUGUST 15.2 15.0 15.9	16.4 16.2 16.6	15.9 17.6 14.9	12.3 11.7 10.4	14.3 14.6 12.9
1 2 3 4 5	13.4 13.3 13.4 13.4 13.2	JUNE 10.7 11.0 11.2 11.1 11.3	12.2 12.1 12.4 12.5 12.4	17.3 17.1 17.7 18.1 17.7	JULY 14.0 14.4 14.7 14.6 14.6	15.9 15.9 16.2 16.5 16.3	17.2 17.3 17.8 18.4 18.3	15.2 15.0 15.9 14.5 15.2	16.4 16.2 16.6 16.4 16.9	15.9 17.6 14.9 18.3 19.0	12.3 11.7 10.4 10.6 12.4	14.3 14.6 12.9 14.2 15.3
1 2 3 4	13.4 13.3 13.4 13.4 13.2	JUNE 10.7 11.0 11.2 11.1 11.3	12.2 12.1 12.4 12.5 12.4	17.3 17.1 17.7 18.1 17.7	JULY 14.0 14.4 14.7 14.6 14.6 14.9	15.9 15.9 16.2 16.5 16.3	17.2 17.3 17.8 18.4 18.3	AUGUST 15.2 15.0 15.9 14.5 15.2	16.4 16.2 16.6 16.4 16.9	15.9 17.6 14.9 18.3 19.0	12.3 11.7 10.4 10.6 12.4 11.9	14.3 14.6 12.9 14.2 15.3
1 2 3 4 5 6 7 8	13.4 13.3 13.4 13.4 13.2	JUNE 10.7 11.0 11.2 11.1 11.3	12.2 12.1 12.4 12.5 12.4	17.3 17.1 17.7 18.1 17.7	JULY 14.0 14.4 14.7 14.6 14.6	15.9 15.9 16.2 16.5 16.3	17.2 17.3 17.8 18.4 18.3 18.5 18.0	15.2 15.0 15.9 14.5 15.2	16.4 16.2 16.6 16.4 16.9	15.9 17.6 14.9 18.3 19.0 17.8 17.3	12.3 11.7 10.4 10.6 12.4	14.3 14.6 12.9 14.2 15.3 14.5 14.3
1 2 3 4 5 6 7 8 9	13.4 13.3 13.4 13.4 13.2 13.9 14.3 13.5 13.7	JUNE 10.7 11.0 11.2 11.1 11.3 11.2 11.6 11.9 11.6	12.2 12.1 12.4 12.5 12.4 12.5 13.1 12.8 12.6	17.3 17.1 17.7 18.1 17.7 18.0 16.8 17.1	JULY 14.0 14.4 14.7 14.6 14.6 14.9 14.5 13.7 14.2	15.9 15.9 16.2 16.5 16.3 16.4 15.7 15.5 16.1	17.2 17.3 17.8 18.4 18.3 18.5 18.0 18.8	AUGUST 15.2 15.0 15.9 14.5 15.2 14.7 14.6 13.8 14.8	16.4 16.2 16.6 16.4 16.9 16.6 16.4 16.3 16.8	15.9 17.6 14.9 18.3 19.0 17.8 17.3 14.7	12.3 11.7 10.4 10.6 12.4 11.9 11.3 11.3	14.3 14.6 12.9 14.2 15.3 14.5 14.3 13.3 13.6
1 2 3 4 5 6 7 8	13.4 13.3 13.4 13.2 13.9 14.3 13.5	JUNE 10.7 11.0 11.2 11.1 11.3 11.2 11.6 11.9	12.2 12.1 12.4 12.5 12.4 12.5 13.1 12.8	17.3 17.1 17.7 18.1 17.7 18.0 16.8 17.1	JULY 14.0 14.4 14.7 14.6 14.6 14.9 14.5 13.7	15.9 15.9 16.2 16.5 16.3 16.4 15.7	17.2 17.3 17.8 18.4 18.3 18.5 18.0	15.2 15.0 15.9 14.5 15.2 14.7 14.6 13.8	16.4 16.2 16.6 16.4 16.9	15.9 17.6 14.9 18.3 19.0 17.8 17.3	12.3 11.7 10.4 10.6 12.4 11.9 11.3 11.3	14.3 14.6 12.9 14.2 15.3 14.5 14.3
1 2 3 4 5 6 7 8 9	13.4 13.3 13.4 13.4 13.2 13.9 14.3 13.5 13.7	JUNE 10.7 11.0 11.2 11.1 11.3 11.2 11.6 11.9 11.6 10.8	12.2 12.1 12.4 12.5 12.4 12.5 13.1 12.8 12.6 11.8	17.3 17.1 17.7 18.1 17.7 18.0 16.8 17.1 17.8	JULY 14.0 14.4 14.7 14.6 14.6 14.5 13.7 14.2 14.2	15.9 15.9 16.2 16.5 16.3 16.4 15.7 15.5 16.1	17.2 17.3 17.8 18.4 18.3 18.5 18.0 18.8 18.6	AUGUST 15.2 15.0 15.9 14.5 15.2 14.7 14.6 13.8 14.8	16.4 16.2 16.6 16.4 16.9 16.6 16.4 16.3 16.8	15.9 17.6 14.9 18.3 19.0 17.8 17.3 14.7 15.9 16.7	12.3 11.7 10.4 10.6 12.4 11.9 11.3 11.3 10.7 10.3	14.3 14.6 12.9 14.2 15.3 14.5 14.3 13.6 13.7
1 2 3 4 5 6 7 8 9 10	13.4 13.3 13.4 13.2 13.9 14.3 13.5 13.7 12.7	JUNE 10.7 11.0 11.2 11.1 11.3 11.2 11.6 11.9 11.6 10.8	12.2 12.1 12.4 12.5 12.4 12.5 13.1 12.8 11.8 11.8	17.3 17.1 17.7 18.1 17.7 18.0 16.8 17.1 17.8 18.1	JULY 14.0 14.4 14.7 14.6 14.6 14.9 14.5 13.7 14.2 14.2	15.9 15.9 16.2 16.5 16.3 16.4 15.7 16.1 16.3	17.2 17.3 17.8 18.4 18.3 18.5 18.0 18.8 18.6 18.3	AUGUST 15.2 15.0 15.9 14.5 15.2 14.7 14.6 13.8 14.8 14.8 14.8	16.4 16.2 16.6 16.4 16.9 16.6 16.3 16.8 16.6	15.9 17.6 14.9 18.3 19.0 17.8 17.3 14.7 15.9 16.7	12.3 11.7 10.4 10.6 12.4 11.9 11.3 11.3 10.7 10.3	14.3 14.6 12.9 14.2 15.3 14.5 14.3 13.6 13.7
1 2 3 4 5 6 7 8 9 10	13.4 13.3 13.4 13.2 13.9 14.3 13.5 12.7 12.6 13.6 14.7	JUNE 10.7 11.0 11.2 11.1 11.3 11.2 11.6 11.6 10.8 10.7 10.8 11.4	12.2 12.1 12.4 12.5 12.4 12.5 13.1 12.8 12.8 11.8 11.8 11.8 12.3 13.0	17.3 17.1 17.7 18.1 17.7 18.0 16.8 17.1 17.8 18.1	JULY 14.0 14.4 14.7 14.6 14.6 14.9 14.5 13.7 14.2 14.2	15.9 15.9 16.2 16.5 16.3 16.4 15.7 15.5 16.1 16.3	17.2 17.3 17.8 18.4 18.3 18.5 18.0 18.8 18.6 18.3	15.2 15.0 15.9 14.5 15.2 14.7 14.6 13.8 14.8 14.8	16.4 16.2 16.6 16.4 16.9 16.6 16.3 16.8 16.6	15.9 17.6 14.9 18.3 19.0 17.8 17.3 14.7 15.9 16.7	SEPTEMBE 12.3 11.7 10.4 10.6 12.4 11.9 11.3 10.7 10.3	14.3 14.6 12.9 14.2 15.3 14.5 14.3 13.6 13.7
1 2 3 4 5 6 7 8 9 10	13.4 13.3 13.4 13.2 13.9 14.3 13.5 13.7 12.7	JUNE 10.7 11.0 11.2 11.1 11.3 11.2 11.6 11.9 11.6 10.8 10.7 10.8 11.4 11.1	12.2 12.1 12.4 12.5 12.4 12.5 13.1 12.6 11.8 11.8 12.3 13.0 12.7	17.3 17.1 17.7 18.1 17.7 18.0 16.8 17.1 17.8 18.1	JULY 14.0 14.4 14.7 14.6 14.6 14.9 14.5 13.7 14.2 14.2 14.5 15.5 14.2	15.9 16.2 16.5 16.3 16.4 15.7 16.1 16.3 16.9 16.6	17.2 17.3 17.8 18.4 18.3 18.5 18.0 18.6 18.3	15.2 15.0 15.9 14.5 15.2 14.7 14.6 13.8 14.8 14.8 14.8	16.4 16.2 16.6 16.4 16.9 16.6 16.3 16.8 16.6	15.9 17.6 14.9 18.3 19.0 17.8 17.3 14.7 15.9 16.7	12.3 11.7 10.4 10.6 12.4 11.9 11.3 11.3 10.7 10.3	14.3 14.6 12.9 14.2 15.3 14.5 14.3 13.3 13.6 13.7
1 2 3 4 5 6 7 8 9 10	13.4 13.3 13.4 13.2 13.9 14.3 13.5 12.7 12.6 13.6 14.7	JUNE 10.7 11.0 11.2 11.1 11.3 11.2 11.6 11.9 11.6 10.8 10.7 10.8 11.4 11.1 11.9	12.2 12.1 12.4 12.5 12.4 12.5 13.1 12.8 12.6 11.8 11.8 12.3 13.0 12.7 13.5	17.3 17.1 17.7 18.1 17.7 18.0 16.8 17.1 17.8 18.1	JULY 14.0 14.4 14.7 14.6 14.6 14.9 14.5 13.7 14.2 14.2	15.9 15.9 16.2 16.5 16.3 16.4 15.7 15.5 16.1 16.3	17.2 17.3 17.8 18.4 18.3 18.5 18.0 18.8 18.6 18.3	15.2 15.0 15.9 14.5 15.2 14.7 14.6 13.8 14.8 14.8	16.4 16.2 16.6 16.4 16.9 16.6 16.3 16.8 16.6 16.2 15.6 16.2	15.9 17.6 14.9 18.3 19.0 17.8 17.3 14.7 15.9 16.7	SEPTEMBE 12.3 11.7 10.4 10.6 12.4 11.9 11.3 10.7 10.3	14.3 14.6 12.9 14.2 15.3 14.5 14.3 13.6 13.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	13.4 13.3 13.4 13.2 13.9 14.3 13.7 12.7 12.6 13.6 14.7 14.4 15.1	JUNE 10.7 11.0 11.2 11.1 11.3 11.2 11.6 11.9 11.6 10.8 10.7 10.8 11.4 11.1 11.9	12.2 12.1 12.4 12.5 12.4 12.5 13.1 12.8 12.6 11.8 11.8 12.3 13.0 12.7 13.5	17.3 17.1 17.7 18.1 17.7 18.0 16.8 17.1 17.8 18.1 18.9 17.7 18.2 18.8 18.0	JULY 14.0 14.4 14.7 14.6 14.6 14.9 14.5 13.7 14.2 14.2 14.5 15.5 14.2 14.8	15.9 16.2 16.5 16.3 16.4 15.7 15.5 16.1 16.3 16.9 16.6 16.6 16.6	17.2 17.3 17.8 18.4 18.3 18.5 18.0 18.6 18.3 18.0 16.6 17.9 18.3 18.9	15.2 15.0 15.9 14.5 15.2 14.7 14.6 13.8 14.8 14.8 14.8 14.8 14.5 15.2 14.5 15.2	16.4 16.2 16.6 16.3 16.8 16.6 16.2 15.6 16.2 15.6 16.7 16.7	15.9 17.6 14.9 18.3 19.0 17.8 17.3 14.7 15.9 16.7 16.5 16.5 17.0 17.5 17.0	12.3 11.7 10.4 10.6 12.4 11.9 11.3 11.3 10.7 10.3	14.3 14.6 12.9 14.2 15.3 14.5 14.3 13.3 13.6 13.7 13.6 13.1 13.6 14.0 14.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	13.4 13.3 13.4 13.2 13.9 14.3 13.5 13.7 12.7 12.6 13.6 14.7 14.4 15.1	JUNE 10.7 11.0 11.2 11.1 11.3 11.2 11.6 11.9 11.6 10.8 10.7 10.8 11.4 11.1 11.9	12.2 12.1 12.4 12.5 12.4 12.5 13.1 12.8 12.6 11.8 11.8 12.3 13.0 12.7 13.5	17.3 17.1 17.7 18.1 17.7 18.0 16.8 17.1 17.8 18.1 18.9 17.7 18.2 18.8 18.0	JULY 14.0 14.4 14.7 14.6 14.6 14.9 14.5 13.7 14.2 14.2 14.5 15.5 14.2 14.1 14.8	15.9 16.2 16.5 16.3 16.4 15.7 15.5 16.1 16.6 16.3 16.6 16.6 16.1 16.3	17.2 17.3 17.8 18.4 18.3 18.5 18.0 18.8 18.6 17.9 18.3 18.0	AUGUST 15.2 15.0 15.9 14.5 15.2 14.7 14.6 13.8 14.8 14.8 14.4 14.5 14.2 15.2 14.5 15.3 13.1	16.4 16.2 16.6 16.4 16.9 16.6 16.3 16.8 16.6 16.2 16.7 16.7	15.9 17.6 14.9 18.3 19.0 17.8 17.3 14.7 15.9 16.5 17.0 17.5 17.0	12.3 11.7 10.4 10.6 12.4 11.9 11.3 11.3 10.7 10.3 10.9 9.5 10.0 9.2 9.5 10.0 10.9	14.3 14.6 12.9 14.2 15.3 14.5 14.3 13.6 13.6 13.1 13.6 14.0 14.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	13.4 13.3 13.4 13.2 13.9 14.3 13.5 13.7 12.7 12.6 13.6 14.7 14.4 15.1	JUNE 10.7 11.0 11.2 11.1 11.3 11.2 11.6 10.8 10.7 10.8 11.4 11.1 11.9 12.1 11.8 11.6	12.2 12.1 12.4 12.5 12.4 12.5 13.1 12.8 12.6 11.8 11.8 12.7 13.5 13.5 13.5 13.5	17.3 17.1 17.7 18.1 17.7 18.0 16.8 17.1 17.8 18.1 18.9 17.7 18.2 18.8 18.0	JULY 14.0 14.4 14.7 14.6 14.6 14.9 14.2 14.2 14.5 15.5 15.5 14.2 14.4 15.1 14.8 15.0 14.3	15.9 16.2 16.5 16.3 16.4 15.5 16.1 16.3 16.6 16.6 16.6	17.2 17.3 17.8 18.4 18.3 18.5 18.0 18.8 18.6 18.3 18.0 16.6 17.9 18.3 18.9	15.2 15.0 15.9 14.5 15.2 14.7 14.8 14.8 14.8 14.8 14.8 14.5 15.2 14.5 15.2 14.1 14.4	16.4 16.2 16.6 16.4 16.9 16.6 16.3 16.8 16.6 16.2 15.6 16.2 15.7 16.7	15.9 17.6 14.9 18.3 19.0 17.8 17.3 14.7 15.9 16.7 16.5 17.0 17.5 17.0	12.3 11.7 10.4 10.6 12.4 11.9 11.3 10.7 10.3 10.0 9.2 9.5 10.0 10.9	14.3 14.6 12.9 14.2 15.3 14.5 14.3 13.6 13.7 13.6 13.7 13.6 14.0 14.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	13.4 13.3 13.4 13.2 13.9 14.3 13.5 13.7 12.7 12.6 13.6 14.7 14.4 15.1	JUNE 10.7 11.0 11.2 11.1 11.3 11.2 11.6 11.9 11.6 10.8 10.7 10.8 11.4 11.1 11.9	12.2 12.1 12.4 12.5 12.4 12.5 13.1 12.8 12.6 11.8 11.8 12.3 13.0 12.7 13.5	17.3 17.1 17.7 18.1 17.7 18.0 16.8 17.1 17.8 18.1 18.9 17.7 18.2 18.8 18.0	JULY 14.0 14.4 14.7 14.6 14.6 14.9 14.2 14.2 14.5 15.5 15.5 14.2 14.4 15.1 14.8 15.0 14.3	15.9 16.2 16.5 16.3 16.4 15.7 15.5 16.1 16.6 16.3 16.6 16.6 16.1 16.3	17.2 17.3 17.8 18.4 18.3 18.5 18.0 18.8 18.6 17.9 18.3 18.0	AUGUST 15.2 15.0 15.9 14.5 15.2 14.7 14.6 13.8 14.8 14.8 14.4 14.5 14.2 15.2 14.5 15.3 13.1	16.4 16.2 16.6 16.4 16.9 16.6 16.3 16.8 16.6 16.2 16.7 16.7	15.9 17.6 14.9 18.3 19.0 17.8 17.3 14.7 15.9 16.5 17.0 17.5 17.0	12.3 11.7 10.4 10.6 12.4 11.9 11.3 11.3 10.7 10.3 10.9 9.5 10.0 9.2 9.5 10.0 10.9	14.3 14.6 12.9 14.2 15.3 14.5 14.3 13.6 13.6 13.1 13.6 14.0 14.2
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1 2 3 4 5 5 6 6 7 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	13.4 13.3 13.4 13.4 13.2 13.9 14.3 13.5 13.7 12.6 14.7 14.7 14.9 13.6 14.5 15.0 15.6 15.8 15.3 15.6 14.5 15.1	JUNE 10.7 11.0 11.2 11.1 11.3 11.2 11.6 11.9 11.6 10.8 10.7 10.8 11.4 11.1 11.9 12.1 11.8 11.6 12.6 12.6 12.1 12.8 13.3 12.8 12.8 12.8 14.0 14.0	12.2 12.1 12.4 12.5 12.4 12.5 13.1 12.8 12.6 11.8 11.8 12.3 13.0 12.7 13.5 13.3 13.3 13.3 14.4 14.4 14.4 14.0 14.3 13.8 13.8 13.8 14.6 14.6 15.8	17.3 17.1 17.7 18.1 17.7 18.0 16.8 17.1 17.8 18.1 18.9 17.7 18.2 18.8 18.0 17.3 17.8 18.4 18.5 18.1 19.4 17.2 18.5	JULY 14.0 14.4 14.7 14.6 14.6 14.9 14.5 15.5 14.2 14.4 15.1 14.8 15.0 14.3 14.2 14.5 14.4 15.3 14.5 15.3 14.6	15.9 16.2 16.5 16.3 16.4 15.5 16.1 16.3 16.6 16.6 16.1 16.3 16.4 16.6 16.4 16.6 16.6 16.5 16.5	17.2 17.3 17.8 18.4 18.3 18.5 18.0 18.8 18.6 17.9 18.3 18.9 18.3 18.9 17.4 18.2 17.5 17.0 17.1 17.2 17.0 17.1 17.2 17.0 18.2	15.2 15.9 14.5 15.2 14.7 14.6 13.8 14.8 14.8 14.8 14.2 15.2 14.5 15.2 14.5 15.2 14.5 15.2 12.2 14.5	16.4 16.2 16.6 16.4 16.9 16.6 16.3 16.8 16.6 16.2 15.6 16.2 15.7 16.7 16.7 15.9 15.9 15.9 15.9 15.9 15.9 15.9 15.9	15.9 17.6 14.9 18.3 19.0 17.8 17.3 14.7 15.9 16.5 17.0 16.5 17.0 16.9 17.3 16.4 16.5 17.3 16.4 16.5	12.3 11.7 10.4 10.6 12.4 11.9 11.3 11.3 10.7 10.3 10.0 9.2 9.5 10.0 10.9 10.6 11.3 12.1 9.6 10.9 10.6 11.3 12.1 9.6 10.9 10.6 11.7 10.8 10.9 10.0 8.0 5.5 5.9 6.8 7.7 9.2 9.3	14.3 14.6 12.9 14.2 15.3 14.5 14.3 13.3 13.6 13.7 13.6 14.0 14.2 14.1 13.9 13.9 13.1 12.8 11.2 8.9 9.4 10.5
1 2 3 4 5 6 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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	13.4 13.3 13.4 13.2 13.9 14.3 13.5 13.7 12.6 14.7 14.9 13.6 15.1 15.6 15.8 15.6 15.8 15.6 14.5 17.6	JUNE 10.7 11.0 11.2 11.1 11.3 11.2 11.6 11.9 11.6 10.8 11.4 11.1 11.9 12.1 11.8 11.6 12.8 13.3 12.8 12.8 12.8 14.0	12.2 12.1 12.4 12.5 12.4 12.5 13.1 12.8 12.6 11.8 12.3 13.0 12.7 13.5 13.3 12.8 13.3 12.8 13.3 13.1 13.8 14.4 14.4 14.4 14.3 13.8 13.8 13.8 13.8 13.8 13.8	17.3 17.1 17.7 18.1 17.7 18.0 16.8 17.1 17.8 18.1 18.9 17.7 18.2 18.8 18.0 17.3 17.8 18.4 19.1 19.4 19.1 19.4 17.2 18.5	JULY 14.0 14.4 14.7 14.6 14.6 14.9 14.5 13.7 14.2 14.2 14.5 15.5 14.2 14.3 14.3 14.3 14.5 15.1 15.0 14.3 14.5 15.3 14.2 14.5	15.9 16.2 16.5 16.3 16.4 15.7 15.5 16.1 16.6 16.6 16.6 16.6 16.4 16.4 16.8 17.5 16.4 16.4 16.4 16.5 16.5 16.5	17.2 17.3 17.8 18.4 18.3 18.5 18.0 18.8 18.6 17.9 18.3 18.9 18.8 17.4 18.2 17.5 17.0 17.1 17.2 17.0 18.2	AUGUST 15.2 15.0 15.9 14.5 15.2 14.7 14.6 13.8 14.8 14.4 14.5 14.2 15.2 14.5 15.3 13.1 14.4 13.3 13.4 12.2 13.0 12.9 12.9 12.9 12.9 12.9 14.2	16.4 16.2 16.6 16.4 16.9 16.6 16.2 16.7 16.6 15.8 15.9 15.9 15.7 14.6 15.1 15.2 15.5 15.5 15.5	15.9 17.6 14.9 18.3 19.0 17.8 17.3 14.7 15.9 16.5 17.0 17.5 17.0 16.9 17.3 16.4 16.5 13.9 15.2 12.7 12.8 11.6	12.3 11.7 10.4 10.6 12.4 11.9 11.3 11.3 10.7 10.3 10.0 9.2 9.5 10.0 10.9 10.6 11.3 12.1 9.6 10.9 10.6 11.3 12.1 9.6 10.9 10.6 11.3 12.1 9.6 10.9 10.9	14.3 14.6 12.9 14.2 15.3 14.5 14.3 13.3 13.6 13.7 13.6 14.2 14.1 13.9 13.9 13.1 12.8 11.2 10.2 8.9
1 2 3 4 5 5 6 6 7 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	13.4 13.3 13.4 13.2 13.9 14.3 13.5 13.7 12.6 14.7 14.9 13.6 15.1 15.6 15.8 15.6 15.8 15.6 14.5 17.6	JUNE 10.7 11.0 11.2 11.1 11.3 11.2 11.6 11.9 11.6 10.8 10.7 10.8 11.4 11.1 11.9 12.1 11.8 11.6 12.6 12.6 12.1 12.8 13.3 12.8 12.8 12.8 14.0 14.0	12.2 12.1 12.4 12.5 12.4 12.5 13.1 12.8 12.6 11.8 11.8 12.3 13.0 12.7 13.5 13.3 13.3 13.3 14.4 14.4 14.4 14.0 14.3 13.8 13.8 13.8 14.6 14.6 15.8	17.3 17.1 17.7 18.1 17.7 18.0 16.8 17.1 17.8 18.1 18.9 17.7 18.2 18.8 18.0 17.3 17.8 18.4 18.5 18.1 19.4 17.2 18.5	JULY 14.0 14.4 14.7 14.6 14.6 14.9 14.5 15.5 15.5 15.5 14.2 14.4 15.1 14.8 15.0 14.3 14.5 14.4 15.3 14.5 15.3 14.6	15.9 16.2 16.5 16.3 16.4 15.5 16.1 16.3 16.6 16.6 16.1 16.3 16.4 16.6 16.4 16.6 16.6 16.5 16.5	17.2 17.3 17.8 18.4 18.3 18.5 18.0 18.8 18.6 17.9 18.3 18.9 18.3 18.9 17.4 18.2 17.5 17.0 17.1 17.2 17.0 17.1 17.2 17.0 18.2	15.2 15.9 14.5 15.2 14.7 14.6 13.8 14.8 14.8 14.8 14.2 15.2 14.5 15.2 14.5 15.2 14.5 15.2 12.2 14.5	16.4 16.2 16.6 16.4 16.9 16.6 16.3 16.8 16.6 16.2 15.6 16.2 15.7 16.7 16.7 15.9 15.9 15.9 15.9 15.9 15.9 15.9 15.9	15.9 17.6 14.9 18.3 19.0 17.8 17.3 14.7 15.9 16.5 17.0 17.5 17.0 16.9 17.3 16.4 16.5 13.9 15.2 12.7 12.8 11.6	12.3 11.7 10.4 10.6 12.4 11.9 11.3 11.3 10.7 10.3 10.0 9.2 9.5 10.0 10.9 10.6 11.3 12.1 9.6 10.9 10.6 11.3 12.1 9.6 10.9 10.6 11.7 10.8 10.9 10.0 8.0 5.5 5.9 6.8 7.7 9.2 9.3	14.3 14.6 12.9 14.2 15.3 14.5 14.3 13.3 13.6 13.7 13.6 14.2 14.1 13.9 13.9 13.1 12.8 11.2 10.2 8.9

07093700 ARKANSAS RIVER NEAR WELLSVILLE, CO

LOCATION.--Lat $38^{\circ}30^{\circ}10^{\circ}$, long $105^{\circ}56^{\circ}21^{\circ}$, in $SW^{1}/_{4}NE^{1}/_{4}$ 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.

		DISCHA	RGE, CUBI	C FEET PER		WATER Y	YEAR OCTOBE	R 1999 TO) SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	496 469 444 440 437	403 393 388 404 408	380 389 387 388 352	432 432 419 389 436	403 400 410 408 401	401 408 406 397 406	308 305 311 305 323	519 505 553 638 754	e2940 e2760 e2750 e2800 2650	857 841 836 830 810	701 735 722 729 733	442 377 350 338 336
6 7 8 9 10	423 392 414 418 420	402 396 389 390 385	368 369 371 362 356	408 397 411 408 414	397 397 399 399 402	401 398 385 379 377	336 342 324 315 331	929 954 1010 906 967	2550 2360 2200 2000 1850	841 867 931 921 940	717 709 718 728 699	338 337 335 336 330
11 12 13 14 15	412 401 399 408 411	377 376 370 362 364	364 352 354 358 314	416 416 420 408 393	407 401 397 402 406	374 381 383 377 376	355 321 315 329 335	941 994 930 859 794	1630 1660 1660 1570 1250	903 916 927 e925 e906	671 698 733 744 772	312 305 301 302 305
16 17 18 19 20	416 425 429 454 438	363 367 372 364 360	347 359 375 428 426	412 413 417 422 420	410 415 415 406 401	382 378 378 370 390	320 309 341 358 331	768 1080 1290 1360 1320	1180 e1350 e1310 e1250 1370	e978 e1120 e1160 e962 779	651 475 428 445 411	306 302 300 301 298
21 22 23 24 25	417 421 420 422 417	374 380 381 358 357	431 431 415 437 443	405 407 402 396 404	406 412 405 410 401	393 390 386 399 405	329 319	1290 1310 1390 2300 2550	1440 1380 1360 1350 1350	747 755 749 727 733	401 430 448 457 453	293 319 358 341 333
26 27 28 29 30 31	414 402 393 402 407 395	381 400 396 388 385	444 444 442 439 436 432	412 420 396 375 378 386	389 403 412 403 	397 401 412 404 326 315	306 337 467 553 573	2400 2210 2100 2370 e2760 e3150	1440 1390 1150 1090 939	729 727 732 736 707 710	453 455 424 444 476 486	328 334 327 317 319
TOTAL MEAN MAX MIN AC-FT	13056 421 496 392 25900	11433 381 408 357 22680	12193 393 444 314 24180	12664 409 436 375 25120	11717 404 415 389 23240	11975 386 412 315 23750	10352 345 573 305 20530	41901 1352 3150 505 83110	51979 1733 2940 939 103100	26302 848 1160 707 52170	18146 585 772 401 35990	9820 327 442 293 19480
STATIST	TICS OF M	ONTHLY ME	AN DATA F	OR WATER Y	YEARS 1961	- 2000), BY WATER	YEAR (WY	")			
MEAN MAX (WY) MIN (WY)	415 750 1985 229 1978	424 581 1983 242 1978	382 636 1983 280 1978	357 576 1983 207 1977	352 729 1985 208 1977	342 647 1993 202 1978	396 896 1962 215 1977	1049 2344 1984 391 1977	2130 3930 1980 708 1977	1491 3521 1995 340 1977	899 1889 1984 278 1977	515 1031 1970 267 1977
SUMMAR	Y STATIST	ICS	FOR	1999 CALEN	IDAR YEAR		FOR 2000 W	ATER YEAR	2	WATER YE	ARS 1961	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERO 50 PERO	MEAN I ANNUAL ANNUAL M I DAILY M DAILY ME SEVEN-DA IANEOUS F	EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		278874 764 3300 231 252 553100 1550 520 321	Jun 25 Apr 12 Apr 10		231538 633 e3150 293 301 3320 6.6 459300 1300 410 329	May 31 Sep 21 Sep 15 May 31 7 May 31	-	736 a1135 358 5980 110 147 6240 b8.02 533500 1630 454 264	Jan : Jan : Jun :	1984 1977 12 1980 12 1963 11 1963 12 1980 12 1980

Estimated.

Maximum gage height, 8.40 ft, Jun 23, 1995.

07093740 BADGER CREEK, UPPER STATION, NEAR HOWARD, CO

LOCATION.--Lat $38^{\circ}39^{\circ}32^{\circ}$, long $105^{\circ}48^{\circ}48^{\circ}$, in $\mathrm{SE}^{1}/_{4}\mathrm{SE}^{1}/_{4}$ sec.13, T.51 N., R.10 E., 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.--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.--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 good except estimated daily discharges, which are poor.

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 ${\rm ft}^3/{\rm s}$, Aug. 14, 1983, gage height, 8.22 ft, site and datum then in use, from slope-area measurement of peak flow; no flow, July 17-23, 1989.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 189 $\mathrm{ft^3/s}$ at 2005 Aug. 17, gage height, 3.63 ft ; minimum daily, 0.16 $\mathrm{ft^3/s}$, June 23.

		DISCHARO	GE, CUBIC	FEET PER		WATER YEA		R 1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.66						e1.0	1.5	.49	.40	.28	.41
2	.67						e1.0	1.3	.44	.35	.31	.36
3	.67						e1.2	1.2	.45	.34	.29	.33
4	.63						e1.8	1.2	.40	.27	.33	.32
5	.66						e2.5	1.2	.40	.20	.32	.38
6	.71						e3.5	1.1	.38	.17	.27	.46
7	.74						3.4	1.1	.36	.18	.25	.40
8	.82						2.6	1.4	.34	.37	.29	.39
9	.77						2.4	1.5	.31	.31	.23	.42
10	.75						2.8	1.2	.29	.31	.22	.36
11	.75						2.3	1.1	.30	.23	.41	.31
12	.73						2.0	1.1	.30	.39	.36	.30
13	.74						2.2	1.1	.23	9.0	.43	.30
14	.73						2.5	1.0	.20	6.1	.40	.30
15	.72						2.5	.99	.19	3.8	.52	.28
16	.76						2.1	.95	.18	1.1	e5.0	.27
17	e.75						2.2	.91	.18	1.5	e12	.28
18	e.75						2.4	.94	.19	.96	e5.0	.30
19	e.78						2.1	1.1	. 25	.80	e.70	.30
20	e.78						1.9	1.0	.24	e.80	e.65	.33
21	e.76						1.7	.89	.19	e.60	e.70	.41
22	e.75						1.8	.85	.17	e.50	.71	.54
23	e.75						1.7	.81	.16	e.45	.57	.50
24	e.75						1.6	.78	.30	e.40	.56	.55
25	e.75						1.5	.78	.36	e.36	2.1	.51
26	e.75						1.4	.76	.73	.36	.70	.46
27	e.74						1.3	.75	1.1	.43	.57	.44
28	e.75						1.3	.68	.81	.47	.48	. 45
29	e.77						1.3	.64	.65	.40	.44	. 47
30	e.79						1.5	.61	.50	.35	.44	.49
31	e.80							.54		.34	.44	
TOTAL	22.93						59.5	30.98	11.09	32.24	35.97	11.62
MEAN	.74						1.98	1.00	.37	1.04	1.16	.39
MAX	.82						3.5	1.5	1.1	9.0	12	.55
MIN	.63						1.0	.54	.16	.17	.22	.27
AC-FT	45						118	61	22	64	71	23

e Estimated.

07093740 BADGER CREEK, UPPER STATION, NEAR HOWARD, CO--Continued

WATER-OUALITY RECORDS

PERIOD OF RECORD.--February 1981 to October 1988 at site 1,000 ft downstream, not equivalent because of seepage at site. March 1989 to current year.

PERIOD OF DAILY RECORD . --

WATER TEMPERATURE: March 1995 to current year (seasonal records only). SUSPENDED-SEDIMENT DISCHARGE: June 1981 to current year (seasonal records only).

INSTRUMENTATION. -- Pumping sediment sampler since June 1981. Water temperature probe with satellite telemetry since March 1995.

REMARKS.--Records for water temperature are good. Records for suspended sediment are fair except for May 9-10 and July 25 to Aug. 10 and estimated sediment discharges, which are poor. Daily water temperature data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD. --

WATER TEMPERATURE (seasonal only): Maximum, 30.7°C, July 28, 1995, July 18, 1998; minimum, 0.0°C, Oct. 7, 15, 19, 29, 1995, Apr. 30, 1996.

SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 25,800 mg/L, Aug. 20, 1982; minimum daily mean, 0 mg/L, many days.

SEDIMENT LOAD (seasonal only): Maximum daily, 15,600 tons, Aug. 14, 1983; minimum daily, 0.0 ton, many days.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE (seasonal only): Maximum, 30.6°C, July 23; minimum, 0.1°C, Oct. 21, 24-25.
SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 1,620 mg/L, July 15; minimum daily mean, 32 mg/L, June 21.
SEDIMENT LOAD (seasonal only): Maximum daily, 120 tons (estimated), Aug. 17; minimum daily, 0.02 ton, several days (some estimated).

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT					JUN				
01	1300	.67	404		07	1300	.37	391	
NOV					27	1145	1.1	497	18.3
15	1200	.76	432		JUL				
MAR					13	1200	3.9	288	
24	1430		387		25	1500	.35	395	
APR					AUG				
06	1900	3.6	312		17	1100	.87	370	
20	1500	2.2	411		21	1245	.63	427	16.9
MAY					SEP				
10	1600	1.2	425		07	1400	.39	388	

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

	DATE	TIME	CHARGE, INST. CUBIC FEET PER SECOND (00061)	ATURE WATER (DEG C)	SUS-	SUS- PENDED (T/DAY)
AP	R					
	06	1800	3.3	10.2	673	6.0
	06	1900	3.6		761	7.4
	20	1430	2.2	15.7	268	1.6
	Y.					
	10	1700	1.2	21.2	144	.47
	N					
	07	1330		24.6	52	.05
	27	1145	1.1	18.3	364	1.1
	L					
	13	1200	3.9		1220	13
	13	1245		20.4	1180	12
	25	1600	.36	21.8	256	.25
	G					
	17	1115	.86	17.0	378	.88
	21	1245	.63	16.9	85	.14
	P					
	07	1345	.40	21.4	58	.06

ARKANSAS RIVER BASIN 07093740 BADGER CREEK, UPPER STATION, NEAR HOWARD, CO--Continued

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				WAIER (DEG.								
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	VEMBER		DI	ECEMBER			JANUARY	
1	14.0	.9	6.6									
2	15.4 15.8	1.3 3.4	7.2 8.3									
4	15.0	.2	6.5									
5	14.7	.2	6.4									
6	12.3	2.5	7.0									
7	11.9	4.6	7.4									
8 9	14.3 15.2	$\frac{1.1}{1.4}$	6.7 7.3									
10	15.2	.9	7.1									
11	15.0	1.7	7.4									
12	14.3	.5	6.5									
13	13.9	1.0	6.6									
14 15	13.9 11.8	.4	6.0 5.2									
16	4.1	.2	1.7									
17	7.7	.2	1.9									
18	8.0	.2	2.3									
19 20	10.3 11.1	.2	3.6 4.3									
21	12.2	.1	4.5									
22 23	12.2 12.1	.2	4.6 4.6									
24	11.8	.1	4.2									
25	10.9	.1	3.9									
26	11.1	.2	3.7									
27 28	11.0 9.4	.2	4.0 3.6									
26 29	6.4	.2	2.6									
30	7.6	. 2	1.9									
31	9.7	.2	2.9									
MONTH	15.8	.1	5.0									
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY			MEAN			MEAN			MEAN	MAX		MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1			MEAN				6.8	APRIL .2	2.5	17.1	MAY 1.9	8.2
1 2 3		FEBRUARY			MARCH		6.8 7.3 8.4	APRIL .2 .3 .3			MAY	8.2 9.5 11.2
1 2 3 4	 	FEBRUARY	 	 	MARCH	 	6.8 7.3 8.4 10.4	APRIL .2 .3 .3 .5	2.5 2.3 3.1 4.3	17.1 20.0 22.3 22.3	MAY 1.9 1.8 2.3 3.6	8.2 9.5 11.2 12.2
1 2 3		FEBRUARY	 	 	MARCH	 	6.8 7.3 8.4	APRIL .2 .3 .3	2.5 2.3 3.1	17.1 20.0 22.3	MAY 1.9 1.8 2.3	8.2 9.5 11.2
1 2 3 4 5		FEBRUARY	 	 	MARCH	 	6.8 7.3 8.4 10.4 10.4	APRIL .2 .3 .3 .5 .4 .3	2.5 2.3 3.1 4.3 4.3	17.1 20.0 22.3 22.3 22.1 21.5	MAY 1.9 1.8 2.3 3.6 3.3	8.2 9.5 11.2 12.2 11.7
1 2 3 4 5 6 7	 	FEBRUARY		 	MARCH	 	6.8 7.3 8.4 10.4 10.4	APRIL .2 .3 .3 .5 .4 .3 .3 .3	2.5 2.3 3.1 4.3 4.3 4.1 4.6	17.1 20.0 22.3 22.3 22.1 21.5 21.7	MAY 1.9 1.8 2.3 3.6 3.3 4.6	8.2 9.5 11.2 12.2 11.7 11.4 11.5
1 2 3 4 5 6 7 8 9		FEBRUARY		 	MARCH	 	6.8 7.3 8.4 10.4 10.9 11.7 11.4 13.2	APRIL .2 .3 .3 .5 .4 .3 .3 .2 .2	2.5 2.3 3.1 4.3 4.3	17.1 20.0 22.3 22.3 22.1 21.5	MAY 1.9 1.8 2.3 3.6 3.3	8.2 9.5 11.2 12.2 11.7
1 2 3 4 5 6 7 8	 	FEBRUARY	 	 	MARCH	 	6.8 7.3 8.4 10.4 10.4	APRIL .2 .3 .3 .5 .4 .3 .3 .2	2.5 2.3 3.1 4.3 4.3 4.1 4.6 4.4	17.1 20.0 22.3 22.3 22.1 21.5 21.7 11.5	MAY 1.9 1.8 2.3 3.6 3.3 4.6 4.1	8.2 9.5 11.2 12.2 11.7 11.4 11.5 7.3
1 2 3 4 5 6 7 8 9 10		FEBRUARY			MARCH		6.8 7.3 8.4 10.4 10.4 10.9 11.7 11.4 13.2 7.0	APRIL .2 .3 .3 .5 .4 .3 .3 .2 .2 .2 .3	2.5 2.3 3.1 4.3 4.3 4.1 4.6 4.4 5.7 3.8	17.1 20.0 22.3 22.3 22.1 21.5 21.7 11.5 19.1 21.3	MAY 1.9 1.8 2.3 3.6 3.3 3.3 4.6 4.1 2.4 4.6 4.3	8.2 9.5 11.2 12.2 11.7 11.4 11.5 7.3 10.0 11.6
1 2 3 4 5 6 7 8 9 10		FEBRUARY		 	MARCH	 	6.8 7.3 8.4 10.4 10.9 11.7 11.4 13.2 7.0	APRIL .2 .3 .3 .5 .4 .3 .3 .2 .2 .3 .9 .3	2.5 2.3 3.1 4.3 4.3 4.1 4.6 4.4 5.7 3.8	17.1 20.0 22.3 22.3 22.1 21.5 21.7 11.5 19.1 21.3 20.1 16.8	MAY 1.9 1.8 2.3 3.6 3.3 4.6 4.1 2.4 4.6 4.3 1.2	8.2 9.5 11.2 12.2 11.7 11.4 11.5 7.3 10.0 11.6
1 2 3 4 5 6 7 8 9 10 11 12 13		FEBRUARY			MARCH		6.8 7.3 8.4 10.4 10.9 11.7 11.4 13.2 7.0 7.5 14.2 13.5	APRIL .2 .3 .3 .5 .4 .3 .3 .2 .2 .3 .3 .8	2.5 2.3 3.1 4.3 4.3 4.1 4.6 4.4 5.7 3.8 3.4 6.9	17.1 20.0 22.3 22.3 22.1 21.5 21.7 11.5 19.1 21.3 20.1 16.8 19.3	MAY 1.9 1.8 2.3 3.6 3.3 4.6 4.1 2.4 4.6 4.3 1.2 .3	8.2 9.5 11.2 12.2 11.7 11.4 11.5 7.3 10.0 11.6
1 2 3 4 5 6 7 8 9 10		FEBRUARY		 	MARCH		6.8 7.3 8.4 10.4 10.9 11.7 11.4 13.2 7.0	APRIL .2 .3 .3 .5 .4 .3 .3 .2 .2 .3 .9 .3	2.5 2.3 3.1 4.3 4.3 4.1 4.6 4.4 5.7 3.8	17.1 20.0 22.3 22.3 22.1 21.5 21.7 11.5 19.1 21.3 20.1 16.8	MAY 1.9 1.8 2.3 3.6 3.3 4.6 4.1 2.4 4.6 4.3 1.2	8.2 9.5 11.2 12.2 11.7 11.4 11.5 7.3 10.0 11.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY			MARCH		6.8 7.3 8.4 10.4 10.9 11.7 11.4 13.2 7.0 7.5 14.2 13.5 12.9 9.6	APRIL .2 .3 .3 .5 .4 .3 .3 .2 .2 .3 .9 .3 .8 1.0	2.5 2.3 3.1 4.3 4.3 4.1 4.6 4.4 5.7 3.8 3.4 6.8 6.3	17.1 20.0 22.3 22.3 22.1 21.5 21.7 11.5 19.1 21.3 20.1 16.8 19.3 15.9	MAY 1.9 1.8 2.3 3.6 3.3 4.6 4.1 2.4 4.6 4.3 1.5 1.7	8.2 9.5 11.2 12.2 11.7 11.4 11.5 7.3 10.0 11.6 10.6 7.5 8.3 8.3 9.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY			MARCH		6.8 7.3 8.4 10.4 10.9 11.7 11.4 13.2 7.0 7.5 14.2 13.5 12.9 9.6	APRIL .2 .3 .3 .5 .4 .3 .3 .2 .2 .3 .9 .3 .8 1.0 1.0 .3 1.4	2.5 2.3 3.1 4.3 4.3 4.1 4.6 4.4 5.7 3.8 6.9 6.3 5.2 7.0 8.5	17.1 20.0 22.3 22.3 22.1 21.5 21.7 11.5 19.1 21.3 20.1 16.8 19.3 15.9 19.2	MAY 1.9 1.8 2.3 3.6 3.3 4.6 4.1 2.4 4.6 4.3 1.5 1.7 4.4 3.3	8.2 9.5 11.2 12.2 11.7 11.4 11.5 7.3 10.0 11.6 10.6 7.5 8.3 8.3 9.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY			MARCH		6.8 7.3 8.4 10.4 10.9 11.7 11.4 13.2 7.0 7.5 14.2 13.5 12.9 9.6	APRIL .2 .3 .3 .5 .4 .3 .3 .2 .2 .3 .9 .3 .8 1.0 1.0 .3 1.4 2.1	2.5 2.3 3.1 4.3 4.3 4.1 4.6 4.4 5.7 3.8 3.4 6.9 6.3 5.2 7.0 8.5 7.2	17.1 20.0 22.3 22.3 22.1 21.5 21.7 11.5 19.1 21.3 20.1 16.8 19.3 15.9 19.2 18.5 11.7	MAY 1.9 1.8 2.3 3.6 3.3 4.6 4.1 2.4 4.6 4.3 1.2 3 1.5 1.7	8.2 9.5 11.2 12.2 11.7 11.4 11.5 7.3 10.0 11.6 10.6 7.5 8.3 8.3 9.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY			MARCH		6.8 7.3 8.4 10.4 10.9 11.7 11.4 13.2 7.0 7.5 14.2 13.5 12.9 9.6	APRIL .2 .3 .3 .5 .4 .3 .3 .2 .2 .3 .9 .3 .8 1.0 1.0 .3 1.4	2.5 2.3 3.1 4.3 4.3 4.1 4.6 4.4 5.7 3.8 6.9 6.3 5.2 7.0 8.5	17.1 20.0 22.3 22.3 22.1 21.5 21.7 11.5 19.1 21.3 20.1 16.8 19.3 15.9 19.2	MAY 1.9 1.8 2.3 3.6 3.3 4.6 4.1 2.4 4.6 4.3 1.5 1.7 4.4 3.3	8.2 9.5 11.2 12.2 11.7 11.4 11.5 7.3 10.0 11.6 10.6 7.5 8.3 8.3 9.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		FEBRUARY			MARCH		6.8 7.3 8.4 10.4 10.9 11.7 11.4 13.2 7.0 7.5 14.2 13.5 12.9 9.6 15.5 16.9 13.7 8.9 17.5	APRIL .22 .33 .55 .44 .33 .32 .22 .33 .99 .38 1.00 1.00 .31 1.42 .21 .33	2.5 2.3 3.1 4.3 4.3 4.1 4.6 4.4 5.7 3.8 3.4 6.9 6.3 5.2 7.0 8.5 7.2 3.9 7.5	17.1 20.0 22.3 22.3 22.1 21.5 21.7 11.5 19.1 21.3 20.1 16.8 19.3 15.9 19.2 18.5 11.7 12.1 17.2	MAY 1.9 1.83 3.6 3.3 4.6 4.1 2.4 4.6 4.3 1.5 1.7 4.4 3.3 1.7 4.0 3.7	8.2 9.5 11.2 12.2 11.7 11.4 11.5 7.3 10.0 11.6 10.6 7.5 8.3 8.3 9.7 10.1 6.4 6.6 9.4 10.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		FEBRUARY			MARCH		6.8 7.3 8.4 10.4 10.9 11.7 11.4 13.2 7.0 7.5 14.2 13.5 12.9 9.6 15.5 16.9 13.7 8.9 17.5	APRIL .2 .3 .3 .5 .4 .3 .3 .2 .2 .3 .9 .3 .8 1.0 1.0 .3 1.4 2.1 .2 .3 .9 1.8	2.5 2.3 3.1 4.3 4.1 4.6 4.4 5.7 3.8 3.8 6.9 6.3 5.2 7.2 3.9 7.5 7.0 6.5	17.1 20.0 22.3 22.3 22.1 21.5 21.7 11.5 19.1 21.3 20.1 16.8 19.3 15.9 19.2 18.5 11.7 12.1 17.2 18.8	MAY 1.9 1.8 2.3 3.6 3.3 4.6 4.1 2.4 4.6 4.3 1.5 1.7 4.4 3.3 1.7 4.0 3.7	8.2 9.5 11.2 12.2 11.7 11.4 11.5 7.3 10.0 11.6 10.6 7.5 8.3 8.3 9.7 10.1 6.4 6.6 9.4 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		FEBRUARY			MARCH		6.8 7.3 8.4 10.4 10.9 11.7 11.4 13.2 7.0 7.5 14.2 13.5 12.9 9.6 15.5 16.9 13.7 8.9 17.5	APRIL .2 .3 .3 .5 .4 .3 .3 .2 .2 .3 .9 .3 .8 1.0 1.0 .3 1.4 2.1 .2 .3 .9 1.8 2.8	2.5 2.3 3.1 4.3 4.1 4.6 4.4 5.7 3.8 3.4 6.9 6.3 5.2 7.0 8.5 7.2 3.9 7.5	17.1 20.0 22.3 22.3 22.1 21.5 21.7 11.5 19.1 21.3 20.1 16.8 19.3 15.9 19.2 18.5 11.7 12.1 17.2 18.8	MAY 1.9 1.83 3.6 3.3 4.6 4.1 2.4 4.6 4.3 1.5 1.7 4.4 3.3 1.7 4.0 3.7	8.2 9.5 11.2 12.2 11.7 11.4 11.5 7.3 10.0 11.6 10.6 7.5 8.3 8.3 9.7 10.1 6.4 6.6 9.4 10.7 11.2 12.2 11.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		FEBRUARY			MARCH		6.8 7.3 8.4 10.4 10.9 11.7 11.4 13.2 7.0 7.5 14.2 13.5 12.9 9.6 15.5 16.9 13.7 8.9 17.5	APRIL .2 .3 .3 .5 .4 .3 .3 .2 .2 .3 .9 .3 .8 1.0 1.0 .3 1.4 2.1 .2 .3 .9 1.8	2.5 2.3 3.1 4.3 4.1 4.6 4.4 5.7 3.8 3.8 6.9 6.3 5.2 7.2 3.9 7.5 7.0 6.5	17.1 20.0 22.3 22.3 22.1 21.5 21.7 11.5 19.1 21.3 20.1 16.8 19.3 15.9 19.2 18.5 11.7 12.1 17.2 18.8	MAY 1.9 1.8 2.3 3.6 3.3 4.6 4.1 2.4 4.6 4.3 1.5 1.7 4.4 3.3 1.7 4.0 3.7	8.2 9.5 11.2 12.2 11.7 11.4 11.5 7.3 10.0 11.6 10.6 7.5 8.3 8.3 9.7 10.1 6.4 6.6 9.4 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		FEBRUARY			MARCH		6.8 7.3 8.4 10.4 10.4 11.7 11.4 13.2 7.0 7.5 14.2 13.5 12.9 9.6 15.5 16.9 17.5 12.7 12.9 17.5	APRIL .2 .3 .3 .5 .4 .3 .2 .2 .3 .9 .3 .8 .9 .3 .1 .0 .1 .0 .3 .1 .4 .2 .3 .9 .9 .8 .8 .9 .9 .8 .8 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9	2.5 2.3 3.1 4.3 4.3 4.1 4.6 4.4 5.7 3.8 3.4 6.9 5.2 7.0 6.5 7.5 7.0 6.5 7.5 7.5	17.1 20.0 22.3 22.3 22.1 21.5 21.7 11.5 19.1 21.3 20.1 16.8 19.3 15.9 19.2 18.5 11.7 12.1 17.2 18.8 20.4 23.4 25.3 21.8 18.0	MAY 1.9 1.83 3.6 3.3 4.6 4.1 2.4 4.6 4.3 1.5 1.7 4.4 3.3 1.7 4.0 3.7 3.8 4.1 5.4 6.9	8.2 9.5 11.2 12.2 11.7 11.4 11.5 7.3 10.0 11.6 10.6 7.5 8.3 9.7 10.1 6.4 6.4 6.4 10.7 11.2 12.2 12.2 12.2 12.2 12.2 12.2 12
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		FEBRUARY			MARCH		6.8 7.3 8.4 10.4 10.9 11.7 11.4 13.2 7.0 7.5 14.2 13.5 12.9 9.6 15.5 16.9 13.7 8.9 17.5 12.7 12.9 11.0 15.9 17.1	APRIL .2 .3 .3 .5 .4 .3 .3 .2 .2 .3 .8 .9 .3 .8 1.0 1.0 .3 1.4 2.1 .2 .3 .9 1.8 2.8 3.3 .3 .9 1.8 2.8 3.3 .3	2.5 2.3 3.1 4.3 4.1 4.4 5.7 3.8 4.4 5.7 3.8 6.9 7.5 7.5 7.5 6.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7	17.1 20.0 22.3 22.3 22.1 21.5 21.7 11.5 19.1 21.3 20.1 16.8 19.3 15.9 19.2 18.5 11.7 12.1 17.2 18.8 20.4 23.4 25.3 21.8 18.0	MAY 1.9 1.8 2.3 3.6 3.3 4.6 4.1 2.4 4.6 4.3 1.5 1.7 4.0 3.7 4.0 3.7 4.0 3.7 4.0 3.7 4.0 3.7 4.0 3.7 4.0 3.7 4.0 3.7	8.2 9.5 11.2 11.7 11.4 11.5 7.3 10.0 11.6 7.5 8.3 8.3 9.7 10.1 6.4 6.6 9.4 11.2 12.8 14.3 12.6 11.5 9.5 12.8
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		FEBRUARY			MARCH		6.8 7.3 8.4 10.4 10.9 11.7 11.4 13.2 7.0 7.5 14.2 13.5 12.9 9.6 15.5 16.9 17.5 12.7 12.9 17.5	APRIL .2 .3 .3 .5 .4 .3 .3 .2 .2 .2 .3 .9 .3 .8 .1 .0 .1 .0 .3 .1 .4 .2 .3 .9 .1 .8 .9 .1 .8 .9 .1 .9 .1 .1 .2 .3 .9 .9 .1 .8 .9 .9 .1 .8 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9	2.53 3.13 4.3 4.3 4.6 4.4 5.8 3.4 6.9 5.2 7.0 5.5 7.0 6.5 7.0 6.5 7.0 9.6 9.8 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	17.1 20.0 22.3 22.3 22.1 21.5 21.7 11.5 19.1 21.3 20.1 16.8 19.3 15.9 19.2 18.5 11.7 12.1 17.2 18.8 20.4 23.4 25.3 21.8 18.0	MAY 1.9 1.8 2.3 3.6 3.3 4.6 4.1 2.4 4.6 4.3 1.2 3.5 1.7 4.4 3.3 1.7 4.0 3.7 3.8 4.1 5.9 6.9 4.8 3.5 4.2	8.2 9.5 11.2 12.2 11.7 11.4 11.5 7.3 10.0 11.6 10.6 7.5 8.3 9.7 10.1 6.4 6.4 6.4 10.7 11.2 12.2 12.3 12.6 11.5
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 25 26 27		FEBRUARY			MARCH		6.8 7.3 8.4 10.4 10.9 11.7 11.4 13.2 7.0 7.5 14.2 13.5 12.9 9.6 15.5 16.9 13.7 8.9 17.5 12.7 12.9 11.0 15.9 17.1	APRIL .2 .3 .3 .5 .4 .3 .3 .2 .2 .3 .9 .3 .8 1.0 1.0 .3 1.4 2.1 .2 .3 .9 1.8 2.8 3.3 .3 1.2 3.0 2.0 2.7	2.5 2.3 3.1 4.3 4.1 4.4 5.7 3.8 4.4 5.7 3.8 6.9 7.5 7.5 7.5 6.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7	17.1 20.0 22.3 22.3 22.1 21.5 21.7 11.5 19.1 21.3 20.1 16.8 19.3 15.9 19.2 18.5 11.7 12.1 17.2 18.8 20.4 23.4 25.3 21.8 18.0	MAY 1.9 1.8 2.3 3.6 3.3 4.6 4.1 2.4 4.6 4.3 1.5 1.7 4.4 3.3 1.5 1.7 4.4 3.3 1.5 1.7 4.4 3.3 1.5 1.7 4.4 3.3 1.5 1.7 4.4 3.3 1.5 1.7 4.4 3.3 1.5 1.7 4.4 3.3 1.5 1.7 4.4 3.3 1.5 1.7 4.4 3.3 1.5 1.7 4.4 3.3 1.5 1.7 4.4 3.3 1.5 1.7 4.4 3.3 1.5 1.7 4.5 3.8 4.1 5.4 5.9 6.9 4.8 3.5 5.5 5.5	8.2 9.5 11.2 11.7 11.4 11.5 7.3 10.0 11.6 7.5 8.3 8.3 9.7 10.1 6.4 6.6 9.4 11.2 12.8 14.3 12.6 11.5 9.5 12.8
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 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20		FEBRUARY			MARCH		6.8 7.3 8.4 10.4 10.9 11.7 11.4 13.2 7.0 7.5 14.2 13.5 12.9 9.6 15.5 16.9 13.7 8.9 17.5 12.7 12.9 11.0 12.7 12.9 11.0 12.7 12.9 13.5 14.6 15.9 17.1	APRIL .2 .3 .3 .5 .4 .3 .3 .2 .2 .2 .3 .9 .3 .8 .1 .0 .1 .0 .3 .1 .4 .2 .3 .9 .1 .8 .9 .1 .8 .9 .1 .8 .9 .9 .1 .8 .9 .9 .1 .8 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9	2.5 2.3 3.1 4.3 4.3 4.6 4.4 5.7 3.8 4.6 6.9 6.9 7.0 6.5 7.2 7.2 7.5 7.5 9.9 9.9 9.4	17.1 20.0 22.3 22.3 22.1 21.5 21.7 11.5 19.1 21.3 20.1 16.8 19.3 15.9 19.2 18.5 11.7 12.1 17.2 18.8 20.4 23.4 25.3 21.8 18.0	MAY 1.9 1.8 2.3 3.6 3.3 4.6 4.1 2.4 4.6 4.3 1.2 3.5 1.7 4.4 3.3 1.7 4.0 3.7 3.8 4.1 5.9 6.9 4.8 3.5 4.2	8.2 9.5 11.2 11.7 11.4 11.5 7.3 10.0 11.6 10.6 7.5 8.3 8.3 9.7 10.1 6.4 6.6 9.4 10.7 11.2 12.8 14.3 12.6 11.5 9.5 12.8 13.6 14.6 14.6 14.6 15.6 16.6 16.6 16.6 17.5 16.6
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 25 26 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20		FEBRUARY			MARCH		6.8 7.3 8.4 10.4 10.9 11.7 11.4 13.2 7.0 7.5 14.2 13.5 12.9 9.6 15.5 16.9 13.7 8.9 17.5 12.7 12.9 11.0 15.9 17.1	APRIL .2 .3 .3 .5 .4 .3 .3 .2 .2 .3 .9 .3 .8 1.0 1.0 .3 1.4 2.1 .2 .3 .9 1.8 2.8 3.3 .3 .9 1.8 2.8 3.3 .3 -7 3.8 -7 3.8 -7	2.5 2.3 3.1 4.3 4.1 4.4 5.7 3.8 4.1 4.4 5.7 3.8 6.9 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	17.1 20.0 22.3 22.3 22.1 21.5 21.7 11.5 19.1 21.3 20.1 16.8 19.3 15.9 19.2 18.5 11.7 12.1 17.2 18.8 20.4 23.4 25.3 21.8 18.0	MAY 1.9 1.83 3.6 3.3 4.6 4.1 2.4 4.6 4.3 1.5 1.7 4.0 3.7 4.0 3.7 4.0 5.9 4.8 5.9 4.8 5.9 4.8 5.9	8.2 9.5 11.2 11.7 11.4 11.5 7.3 10.0 11.6 7.5 8.3 8.3 9.7 10.1 6.4 6.6 9.4 10.2 11.2 12.8 14.3 12.6 11.5 9.5 12.8 13.6

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DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1 2 3 4 5	24.3 23.4 23.2 24.4 24.1	3.8 6.4 5.1 4.1 4.0	13.2 13.2 12.7 12.1 12.0	24.8 25.6 24.1 26.9 27.3	7.6 8.6 9.9 6.7 4.8	16.1 15.9 15.4 15.5 15.2	22.9 26.0 21.9 25.8 24.2	7.7 9.1 9.3 9.0 9.6	14.7 15.8 14.6 15.9 16.0	18.8 21.2 20.0 22.2 20.4	9.2 7.6 5.9 6.0 9.2	13.1 13.4 11.9 13.2 14.3
6 7 8 9 10	25.7 24.7 25.2 25.2 24.6	4.7 4.3 5.1 8.3 3.7	13.4 13.6 14.0 14.7 12.9	29.0 27.1 24.5 26.1 25.7	6.5 9.6 9.7 10.5 8.6	16.0 15.6 16.1 16.7 16.4	25.6 24.6 26.6 24.8 27.4	8.0 7.4 7.0 7.5 9.1	15.2 15.1 15.8 14.9 16.0	20.7 22.0 18.1 21.2 20.7	8.0 8.2 7.5 6.8 5.4	13.4 13.7 12.4 12.8 12.2
11 12 13 14 15	22.2 24.4 26.1 25.9 26.4	4.8 3.6 4.5 5.0 6.0	12.5 13.2 14.0 14.4 15.0	25.3 22.8 21.8 27.3 23.0	8.3 11.6 10.3 10.6 11.5	16.6 16.2 15.8 16.7 16.0	24.5 20.7 27.2 27.0 23.6	9.6 11.0 9.6 9.9 9.8	15.3 14.9 16.6 16.0 15.3	22.2 22.3 22.6 21.9 21.9	5.1 4.7 5.3 5.9 5.9	12.5 12.7 13.3 12.9 13.4
16 17 18 19 20	25.5 24.9 21.7 24.9 25.8	5.1 6.4 4.6 7.4 6.8	13.7 13.7 11.9 14.6 14.7	19.8 23.7 25.8 26.8 25.2	11.9 11.9 10.4 8.9 10.0	15.8 16.8 17.3 17.0 16.8	24.6 22.3 17.8 21.1 21.8	10.4 6.7 6.9 10.2 9.3	15.0 13.7 11.9 15.0 14.3	22.5 19.5 19.4 19.5 15.6	5.6 6.5 8.3 5.0 6.7	13.4 12.5 12.6 11.5 9.8
21 22 23 24 25	28.0 27.1 20.7 22.3 24.8	5.0 6.6 8.0 5.5 8.6	15.3 15.9 13.4 13.0 15.3	26.3 27.1 30.6 27.3 26.5	10.5 7.8 7.0 6.3 7.9	17.0 16.5 18.0 15.4 16.5	19.1 23.8 21.8 20.2 25.7	8.0 10.1 8.8 8.4 8.9	12.6 15.0 14.6 13.5 14.3	16.7 17.8 10.2 13.2 16.2	3.3 7.6 2.5 1.1	9.3 11.2 6.4 6.1 7.3
26 27 28 29 30 31	16.0 22.9 23.7 25.2 24.3	10.8 10.1 9.0 10.3 7.7	12.6 15.3 15.4 16.2 14.8	21.7 21.9 23.5 22.2 21.6 26.6	8.8 9.3 8.4 8.5 7.6 6.5	15.2 15.3 15.2 15.3 13.9 15.4	20.5 23.8 23.0 24.7 21.7 18.9	9.0 8.5 9.3 10.6 10.4 8.0	13.8 15.0 15.4 16.1 15.0 13.0	16.9 18.0 17.3 18.2 17.3	1.2 2.1 3.1 5.3 5.4	8.0 9.0 9.5 10.4 10.3
MONTH	28.0	3.6	13.9	30.6	4.8	16.1	27.4	6.7	14.8	22.6	.8	11.4

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		MEAN			MEAN			MEAN	
	MEAN	CONCEN-	SEDIMENT	MEAN	CONCEN-	SEDIMENT	MEAN	CONCEN-	SEDIMENT
	DISCHARGE	TRATION	DISCHARGE	DISCHARGE	TRATION	DISCHARGE	DISCHARGE	TRATION	DISCHARGE
DAY	(CFS)	(MG/L)	(TONS/DAY)	(CFS)	(MG/L)	(TONS/DAY)	(CFS)	(MG/L)	(TONS/DAY)
2111	(010)	(110/11)	(101.0) 2111)	(010)	(110/ 11/	(10110) 2111)	(010)	(110/ 11/	(101.6) 2111)
		OCTOBER		Ī	NOVEMBER		DI	ECEMBER	
1	.66								
2	.67								
3	.67								
4	.63								
5	.66								
6	.71								
7	.74								
8	.82								
9	.77								
10	.75								
11	.75								
12	.73								
13	.74								
14	.73								
15	.72								
16	.76								
17	e.75								
18	e.75								
19	e.78								
20	e.78								
20	e./8								
21	e.76								
22	e.75								
23	e.75								
24	e.75								
25	e.75								
26	e.75								
27	e.74								
28	e.75								
29	e.77								
30	e.79								
31	e.80								
TOTAL	22.93		0	0		0	0		0

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SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

	MEAN	MEAN CONCEN-	SEDIMENT	MEAN	MEAN CONCEN-	SEDIMENT	MEAN	MEAN CONCEN-	SEDIMENT
DAY	DISCHARGE (CFS)		DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)		DISCHARGE (TONS/DAY)
		JANUARY		1	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	0		0	0		0	0		0
TOTAL	0		U	0		Ü	0		0
		MEAN			MEAN			MEAN	
	MEAN	MEAN CONCEN-	SEDIMENT	MEAN	MEAN CONCEN-	SEDIMENT	MEAN	MEAN CONCEN-	SEDIMENT
DAY	DISCHARGE	CONCEN- TRATION	DISCHARGE	DISCHARGE	CONCEN- TRATION	DISCHARGE	DISCHARGE	CONCEN- TRATION	DISCHARGE
DAY		CONCEN- TRATION (MG/L)			CONCEN- TRATION (MG/L)			CONCEN- TRATION (MG/L)	
DAY	DISCHARGE	CONCEN- TRATION	DISCHARGE	DISCHARGE	CONCEN- TRATION	DISCHARGE	DISCHARGE	CONCEN- TRATION	DISCHARGE
1	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2	DISCHARGE (CFS) e1.0 e1.0	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY) e.27 e.28	DISCHARGE (CFS)	CONCENTRATION (MG/L) MAY 156 148	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) JUNE 54	DISCHARGE (TONS/DAY) e.07
1 2 3 4	el.0 el.0 el.2 el.8	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY) e.27 e.28 e.37 e.78	DISCHARGE (CFS) 1.5 1.3 1.2	CONCENTRATION (MG/L) MAY 156 148 164 232	DISCHARGE (TONS/DAY) .62 .53 .55 .76	DISCHARGE (CFS) . 49 . 44 . 45 . 40	CONCENTRATION (MG/L) JUNE 54 70	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08
1 2 3	CFS) e1.0 e1.0 e1.0 e1.2	CONCENTRATION (MG/L) APRIL	DISCHARGE (TONS/DAY) e.27 e.28 e.37	DISCHARGE (CFS) 1.5 1.3 1.2	CONCENTRATION (MG/L) MAY 156 148 164	DISCHARGE (TONS/DAY) .62 .53 .55	DISCHARGE (CFS) .49 .44 .45	CONCENTRATION (MG/L) JUNE 54 70	DISCHARGE (TONS/DAY) e.07 .06 .09
1 2 3 4 5	e1.0 e1.0 e1.2 e1.8 e2.5	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY) e.27 e.28 e.37 e.78	DISCHARGE (CFS) 1.5 1.3 1.2	CONCEN- TRATION (MG/L) MAY 156 148 164 232 105	DISCHARGE (TONS/DAY) .62 .53 .55 .76 e.59	DISCHARGE (CFS) .49 .44 .45 .40 .40 .38	CONCENTRATION (MG/L) JUNE 54 70 58 46	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08 .06
1 2 3 4 5	e1.0 e1.0 e1.2 e1.2 e1.8 e2.5	CONCEN- TRATION (MG/L) APRIL 604	DISCHARGE (TONS/DAY) e.27 e.28 e.37 e.78 e2.0 e7.8 6.0	DISCHARGE (CFS) 1.5 1.3 1.2 1.2 1.2 1.1	CONCEN- TRATION (MG/L) MAY 156 148 164 232 105 77	DISCHARGE (TONS/DAY) .62 .53 .55 .76 e.59 .32 .24	DISCHARGE (CFS) .49 .44 .45 .40 .40 .38	CONCENTRATION (MG/L) JUNE 54 70 58 46 53	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08 .06
1 2 3 4 5	e1.0 e1.0 e1.2 e1.8 e2.5	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY) e.27 e.28 e.37 e.78 e2.0 e7.8	DISCHARGE (CFS) 1.5 1.3 1.2 1.2 1.2 1.1	CONCEN- TRATION (MG/L) MAY 156 148 164 232 105	DISCHARGE (TONS/DAY) .62 .53 .55 .76 e.59	DISCHARGE (CFS) .49 .44 .45 .40 .40 .38	CONCENTRATION (MG/L) JUNE 54 70 58 46	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08 .06
1 2 3 4 5	PISCHARGE (CFS) e1.0 e1.0 e1.2 e1.8 e2.5 e3.5 3.4 2.6	CONCEN- TRATION (MG/L) APRIL 604 827	e.27 e.28 e.37 e.78 e2.0 e7.8 6.0 5.7	DISCHARGE (CFS) 1.5 1.3 1.2 1.2 1.2 1.1 1.1	CONCEN- TRATION (MG/L) MAY 156 148 164 232 105 77 159	DISCHARGE (TONS/DAY) .62 .53 .55 .76 e.59 .32 .24 .63	DISCHARGE (CFS) .49 .44 .45 .40 .40 .38 .36 .34	CONCENTRATION (MG/L) JUNE 54 70 58 46 53	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08 .06
1 2 3 4 5 6 7 8 9	e1.0 e1.0 e1.0 e1.2 e1.8 e2.5 e3.5 3.4 2.6 2.4	CONCEN- TRATION (MG/L) APRIL 604 827 594	DISCHARGE (TONS/DAY) e.27 e.28 e.37 e.78 e2.0 e7.8 6.0 5.7 3.9	DISCHARGE (CFS) 1.5 1.3 1.2 1.2 1.2 1.2 1.1 1.1	CONCEN- TRATION (MG/L) MAY 156 148 164 232 105 77 159 148	DISCHARGE (TONS/DAY) .62 .53 .55 .76 e.59 .32 .24 .63 .61 .48	DISCHARGE (CFS) .49 .44 .45 .40 .40 .38 .36 .34 .31 .29	CONCEN- TRATION (MG/L) JUNE 54 70 58 46 53 81	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08 .06 .05 .05 .07 e.07
1 2 3 4 5 6 7 8 9 10	e1.0 e1.0 e1.2 e1.2 e1.8 e2.5 e3.5 3.4 2.6 2.4 2.8	CONCEN- TRATION (MG/L) APRIL 604 827 594 365 216	e.27 e.28 e.37 e.78 e2.0 e7.8 6.0 5.7 3.9 e3.4	DISCHARGE (CFS) 1.5 1.3 1.2 1.2 1.2 1.1 1.1 1.4 1.5 1.2 1.1 1.1 1.1	CONCEN- TRATION (MG/L) MAY 156 148 164 232 105 77 159 148 142 127 106	DISCHARGE (TONS/DAY) .62 .53 .55 .76 e.59 .32 .24 .63 .61 .48 .39	DISCHARGE (CFS) .49 .44 .45 .40 .40 .38 .36 .34 .31 .29	CONCENTRATION (MG/L) JUNE 54 70 58 46 53 81 52	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08 .06 .05 .07 e.07 e.07
1 2 3 4 5 6 7 8 9 10	e1.0 e1.0 e1.0 e1.2 e1.8 e2.5 e3.5 3.4 2.6 2.4 2.8	CONCEN- TRATION (MG/L) APRIL 604 827 594 365 216 396	DISCHARGE (TONS/DAY) e.27 e.28 e.37 e.78 e2.0 e7.8 6.0 5.7 3.9 e3.4 2.3 1.2 2.4	DISCHARGE (CFS) 1.5 1.3 1.2 1.2 1.2 1.2 1.2 1.1 1.1 1.1 1.4 1.5 1.2 1.1 1.1 1.1 1.1	CONCEN- TRATION (MG/L) MAY 156 148 164 232 105 77 159 148 142 127 106 123	DISCHARGE (TONS/DAY) .62 .53 .55 .76 e.59 .32 .24 .63 .61 .48 .39 .31 .35	DISCHARGE (CFS) .49 .44 .45 .40 .40 .38 .36 .34 .31 .29 .30 .30	CONCEN- TRATION (MG/L) JUNE 54 70 58 46 53 81 52	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08 .06 .05 .05 .07 e.07 e.07 e.05
1 2 3 4 5 6 7 8 9 10	e1.0 e1.0 e1.2 e1.2 e1.8 e2.5 e3.5 3.4 2.6 2.4 2.8	CONCEN- TRATION (MG/L) APRIL 604 827 594 365 216	e.27 e.28 e.37 e.78 e2.0 e7.8 6.0 5.7 3.9 e3.4	DISCHARGE (CFS) 1.5 1.3 1.2 1.2 1.2 1.1 1.1 1.4 1.5 1.2 1.1 1.1 1.1	CONCEN- TRATION (MG/L) MAY 156 148 164 232 105 77 159 148 142 127 106	DISCHARGE (TONS/DAY) .62 .53 .55 .76 e.59 .32 .24 .63 .61 .48 .39	DISCHARGE (CFS) .49 .44 .45 .40 .40 .38 .36 .34 .31 .29	CONCEN- TRATION (MG/L) JUNE 54 70 58 46 53 81 52 47	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08 .06 .05 .07 e.07 e.07
1 2 3 4 5 6 7 8 9 10 11 12 13 14	e1.0 e1.0 e1.0 e1.2 e1.8 e2.5 e3.5 3.4 2.6 2.4 2.8	CONCEN- TRATION (MG/L) APRIL 604 827 594 365 216 396 512	e.27 e.28 e.37 e.78 e2.0 e7.8 6.0 5.7 3.9 e3.4 2.3 1.2 2.4 3.5 e3.0	DISCHARGE (CFS) 1.5 1.3 1.2 1.2 1.2 1.1 1.1 1.4 1.5 1.2 1.1 1.1 1.0 .99	CONCEN- TRATION (MG/L) MAY 156 148 164 232 105 77 159 148 142 127 106 123 150	DISCHARGE (TONS/DAY) .62 .53 .55 .76 e.59 .32 .24 .63 .61 .48 .39 .31 .35 .41 e.35	DISCHARGE (CFS) .49 .44 .45 .40 .40 .38 .36 .34 .31 .29 .30 .30 .23	CONCEN- TRATION (MG/L) JUNE 54 70 58 46 53 81 52 47	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08 .06 .05 .07 e.07 e.05 .07 e.05
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	e1.0 e1.0 e1.0 e1.2 e1.8 e2.5 e3.5 3.4 2.6 2.4 2.8 2.3 2.0 2.2 2.5 2.5 2.1 2.2	CONCEN- TRATION (MG/L) APRIL 604 827 594 365 216 396 512 320 243	e.27 e.28 e.37 e.78 e2.0 e7.8 6.0 5.7 3.9 e3.4 2.3 1.2 2.4 3.5 e3.0	DISCHARGE (CFS) 1.5 1.3 1.2 1.2 1.2 1.2 1.1 1.1 1.1 1.4 1.5 1.2 1.1 1.1 1.0 .99 .955 .91	CONCEN- TRATION (MG/L) MAY 156 148 164 232 105 77 159 148 142 127 106 123 150 95 78	DISCHARGE (TONS/DAY) .62 .53 .55 .76 e.59 .32 .24 .63 .61 .48 .39 .31 .35 .41 e.35	DISCHARGE (CFS) .49 .44 .45 .40 .38 .36 .34 .31 .29 .30 .20 .19 .18	CONCENTRATION (MG/L) JUNE 54 70 58 46 53 81 52 47 34	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08 .06 .05 .07 e.07 e.07 e.05 .04 e.04 .03 e.02 e.02 e.02
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	e1.0 e1.0 e1.0 e1.2 e1.8 e2.5 e3.5 3.4 2.6 2.4 2.8 2.3 2.0 2.2 2.5 2.5	CONCEN- TRATION (MG/L) APRIL 604 827 594 365 216 396 512 320 243 236	e.27 e.28 e.37 e.78 e2.0 e7.8 6.0 5.7 3.9 e3.4 2.3 1.2 2.4 3.5 e3.0	DISCHARGE (CFS) 1.5 1.3 1.2 1.2 1.2 1.2 1.1 1.1 1.4 1.5 1.2 1.1 1.1 1.0 .99 .95 .91	CONCEN- TRATION (MG/L) MAY 156 148 164 232 105 77 159 148 142 127 106 123 150 95 78 87	DISCHARGE (TONS/DAY) .62 .53 .55 .76 e.59 .32 .24 .63 .61 .48 .39 .31 .35 .41 e.35	DISCHARGE (CFS) .49 .44 .45 .40 .40 .38 .36 .34 .31 .29 .30 .30 .20 .19 .18 .18	CONCENTRATION (MG/L) JUNE 54 70 58 46 53 81 52 47 47	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08 .06 .05 .05 .07 e.07 e.05 .04 e.04 e.04 e.04 c.03 e.02 e.02 e.02
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	e1.0 e1.0 e1.0 e1.2 e1.8 e2.5 e3.5 3.4 2.6 2.4 2.8 2.3 2.0 2.2 2.5 2.5 2.1 2.2	CONCEN- TRATION (MG/L) APRIL 604 827 594 365 216 396 512 320 243	DISCHARGE (TONS/DAY) e.27 e.28 e.37 e.78 e2.0 e7.8 6.0 5.7 3.9 e3.4 2.3 1.2 2.4 3.5	DISCHARGE (CFS) 1.5 1.3 1.2 1.2 1.2 1.2 1.1 1.1 1.1 1.4 1.5 1.2 1.1 1.1 1.0 .99 .955 .91	CONCEN- TRATION (MG/L) MAY 156 148 164 232 105 77 159 148 142 127 106 123 150 95 78	DISCHARGE (TONS/DAY) .62 .53 .55 .76 e.59 .32 .24 .63 .61 .48 .39 .31 .35 .41 e.35	DISCHARGE (CFS) .49 .44 .45 .40 .38 .36 .34 .31 .29 .30 .20 .19 .18	CONCEN- TRATION (MG/L) JUNE 54 70 58 46 53 81 52 47 34 52 52	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08 .06 .05 .07 e.07 e.07 e.05 .04 e.04 .03 e.02 e.02 e.02
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	DISCHARGE (CFS) e1.0 e1.0 e1.0 e1.2 e1.8 e2.5 e3.5 3.4 2.6 2.4 2.8 2.3 2.0 2.2 2.5 2.5 2.5 2.1 2.2 2.4 2.1 1.9	CONCEN- TRATION (MG/L) APRIL 604 827 594 365 216 396 512 320 243 236 333 281	DISCHARGE (TONS/DAY) e.27 e.28 e.37 e.78 e2.0 e7.8 6.0 5.7 3.9 e3.4 2.3 1.2 2.4 3.5 e3.0 1.8 1.4 1.5 1.9 1.4	DISCHARGE (CFS) 1.5 1.3 1.2 1.2 1.2 1.1 1.1 1.4 1.5 1.2 1.1 1.1 1.0 .99 .95 .91 .94 1.1	CONCEN- TRATION (MG/L) MAY 156 148 164 232 105 77 159 148 142 127 106 123 150 95 78 87 171	DISCHARGE (TONS/DAY) .62 .53 .55 .76 e.59 .32 .24 .63 .61 .48 .39 .31 .35 .41 e.35 .41 e.35	DISCHARGE (CFS) .49 .44 .45 .40 .40 .38 .36 .34 .31 .29 .30 .30 .23 .20 .19 .18 .18 .19 .25 .24	CONCEN- TRATION (MG/L) JUNE 54 70 58 46 53 81 52 47 34 52 34 52 46	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08 .06 .05 .05 .07 e.07 e.05 .04 e.04 .03 e.02 e.02 .02 .03 e.04 .03
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DISCHARGE (CFS) e1.0 e1.0 e1.0 e1.2 e1.8 e2.5 e3.5 3.4 2.6 2.4 2.8 2.3 2.0 2.2 2.5 2.1 2.2 2.4 2.1 1.9 1.7 1.8	CONCEN- TRATION (MG/L) APRIL 604 827 594 365 216 396 512 320 243 236 333 281 183	DISCHARGE (TONS/DAY) e.27 e.28 e.37 e.78 e2.0 e7.8 6.0 5.7 3.9 e3.4 2.3 1.2 2.4 3.5 e3.0 1.8 1.4 1.5 1.9 1.4	DISCHARGE (CFS) 1.5 1.3 1.2 1.2 1.2 1.1 1.1 1.1 1.0 .99 .95 .91 .94 1.1 1.0 .89 .85	CONCEN- TRATION (MG/L) MAY 156 148 164 232 105 77 159 148 142 127 106 123 150 95 78 87 171 169 116	DISCHARGE (TONS/DAY) .62 .53 .55 .76 e.59 .32 .24 .63 .61 .48 .39 .31 .35 .41 e.35 .41 e.35 .41 e.35	DISCHARGE (CFS) .49 .44 .45 .40 .40 .38 .36 .34 .31 .29 .30 .30 .23 .20 .19 .18 .18 .19 .25 .24	CONCENTRATION (MG/L) JUNE 54 70 58 46 53 81 47 47 47 47 47 47 34 52 46	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08 .06 .05 .07 e.07 e.07 e.05 .04 e.04 .03 e.02 e.02 .02 .03 e.04 .03 e.02 .02 .02 .03
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	DISCHARGE (CFS) e1.0 e1.0 e1.0 e1.2 e1.8 e2.5 e3.5 3.4 2.6 2.4 2.8 2.3 2.0 2.2 2.5 2.5 2.1 2.2 2.4 2.1 1.9 1.7	CONCEN- TRATION (MG/L) APRIL 604 827 594 365 216 396 512 3200 243 236 333 281 183 136 122	DISCHARGE (TONS/DAY) e.27 e.28 e.37 e.78 e2.0 e7.8 6.0 5.7 3.9 e3.4 2.3 1.2 2.4 3.5 e3.0 1.8 1.4 1.5 1.9 1.4 .86 .65 .55	DISCHARGE (CFS) 1.5 1.3 1.2 1.2 1.2 1.1 1.1 1.4 1.5 1.2 1.1 1.1 1.0 .99 .95 .91 .91 1.0 .89 .85 .81	CONCEN- TRATION (MG/L) MAY 156 148 164 232 105 77 159 148 142 127 106 123 150 95 78 87 171 169 116 116	DISCHARGE (TONS/DAY) .62 .53 .55 .76 e.59 .32 .24 .63 .61 .48 .39 .31 .35 .41 e.35 .41 e.35 .41 e.35 .41 e.35	DISCHARGE (CFS) .49 .44 .45 .40 .40 .38 .36 .34 .31 .29 .30 .30 .20 .19 .18 .18 .19 .25 .24 .19 .17	CONCENTRATION (MG/L) JUNE 54 70 58 46 53 81 52 47 34 52 46 32 40 54	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08 .06 .05 .07 e.07 e.05 .04 e.04 .03 e.02 e.02 .02 .02 .03 e.04 .03
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DISCHARGE (CFS) e1.0 e1.0 e1.0 e1.2 e1.8 e2.5 e3.5 3.4 2.6 2.4 2.8 2.3 2.0 2.2 2.5 2.1 2.2 2.4 2.1 1.9 1.7 1.8	CONCEN- TRATION (MG/L) APRIL 604 827 594 365 216 396 512 320 243 236 333 281 183	DISCHARGE (TONS/DAY) e.27 e.28 e.37 e.78 e2.0 e7.8 6.0 5.7 3.9 e3.4 2.3 1.2 2.4 3.5 e3.0 1.8 1.4 1.5 1.9 1.4	DISCHARGE (CFS) 1.5 1.3 1.2 1.2 1.2 1.1 1.1 1.1 1.0 .99 .95 .91 .94 1.1 1.0 .89 .85	CONCEN- TRATION (MG/L) MAY 156 148 164 232 105 77 159 148 142 127 106 123 150 95 78 87 171 169 116	DISCHARGE (TONS/DAY) .62 .53 .55 .76 e.59 .32 .24 .63 .61 .48 .39 .31 .35 .41 e.35 .41 e.35 .41 e.35	DISCHARGE (CFS) .49 .44 .45 .40 .40 .38 .36 .34 .31 .29 .30 .30 .23 .20 .19 .18 .18 .19 .25 .24	CONCENTRATION (MG/L) JUNE 54 70 58 46 53 81 47 47 47 47 47 47 34 52 46	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08 .06 .05 .07 e.07 e.07 e.05 .04 e.04 .03 e.02 e.02 .02 .03 e.04 .03 e.02 .02 .02 .03
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	DISCHARGE (CFS) e1.0 e1.0 e1.0 e1.2 e1.8 e2.5 e3.5 3.4 2.6 2.4 2.8 2.3 2.0 2.2 2.5 2.5 2.1 2.2 2.4 2.1 1.9 1.7 1.6 1.5	CONCEN- TRATION (MG/L) APRIL 604 827 594 365 216 396 512 243 236 333 281 183 136 122 177	DISCHARGE (TONS/DAY) e.27 e.28 e.37 e.78 e2.0 e7.8 6.0 5.7 3.9 e3.4 2.3 1.2 2.4 3.5 e3.0 1.8 1.4 1.5 1.9 1.4 .86 .65 .55 .76 e.99	DISCHARGE (CFS) 1.5 1.3 1.2 1.2 1.2 1.2 1.1 1.1 1.4 1.5 1.2 1.1 1.1 1.0 .99 .95 .91 .94 1.1 1.0 .89 .85 .81 .78	CONCEN- TRATION (MG/L) MAY 156 148 164 232 105 77 159 148 142 127 106 123 150 95 78 87 171 169 116 116 123	DISCHARGE (TONS/DAY) .62 .53 .55 .76 e.59 .32 .24 .63 .61 .48 .39 .31 .35 .41 e.35 .41 e.35 .41 .22 .49 e.57	DISCHARGE (CFS) .49 .44 .45 .40 .40 .38 .36 .34 .31 .29 .30 .30 .23 .20 .19 .18 .18 .19 .25 .24 .19 .17 .16 .30 .36	CONCENTRATION (MG/L) JUNE 54 70 58 46 53 81 52 47 34 52 46 32 40 54 90	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08 .06 .05 .07 e.07 e.05 .04 e.04 .03 e.02 e.02 .02 .03 e.04 .03 e.04 .03
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	DISCHARGE (CFS) e1.0 e1.0 e1.0 e1.2 e1.8 e2.5 e3.5 3.4 2.6 2.4 2.8 2.3 2.0 2.2 2.5 2.5 2.1 1.2 2.2 2.4 2.1 1.9 1.7 1.6 1.5 1.4 1.3	CONCEN- TRATION (MG/L) APRIL 604 827 594 365 216 396 512 320 243 236 333 281 183 136 122 177 226 154	DISCHARGE (TONS/DAY) e.27 e.28 e.37 e.78 e2.0 e7.8 6.0 5.7 3.9 e3.4 2.3 1.2 2.4 3.5 e3.0 1.8 1.4 1.5 1.9 1.4 .86 .655 .76 e.99 .86 .555	DISCHARGE (CFS) 1.5 1.3 1.2 1.2 1.2 1.2 1.1 1.1 1.1 1.0 .99 .95 .91 .94 1.1 1.0 .89 .85 .81 .78 .78	CONCEN- TRATION (MG/L) MAY 156 148 164 232 105 77 159 148 142 127 106 123 150 95 78 87 171 169 116 116 123 108 87	DISCHARGE (TONS/DAY) .62 .53 .55 .76 e.59 .32 .24 .63 .61 .48 .39 .31 .35 .41 e.35 .41 e.35 .41 .22 .49 e.57 .41 .27 .25 .26 e.26 .22 .18	DISCHARGE (CFS) .49 .44 .45 .40 .40 .38 .36 .34 .31 .29 .30 .30 .20 .19 .18 .18 .19 .25 .24 .19 .17 .16 .30 .36 .73 .11	CONCENTRATION (MG/L) JUNE 54 70 58 46 53 81 52 47 34 52 46 32 46 54 90 132 319	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08 .06 .05 .07 e.07 e.07 e.05 .04 e.04 .03 e.02 e.02 .02 .03 e.04 .03 e.02 .02 .02 .03 e.04 .03
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	DISCHARGE (CFS) e1.0 e1.0 e1.0 e1.2 e1.8 e2.5 e3.5 3.4 2.6 2.4 2.8 2.3 2.0 2.2 2.5 2.5 2.5 2.1 1.2 2.4 2.1 1.9 1.7 1.6 1.5 1.4 1.3 1.3	CONCEN- TRATION (MG/L) APRIL 604 827 594 365 216 396 512 320 243 236 333 281 183 136 122 177 226 154 155	DISCHARGE (TONS/DAY) e.27 e.28 e.37 e.78 e2.0 e7.8 6.0 5.7 3.9 e3.4 2.3 1.2 2.4 3.5 e3.0 1.8 1.4 1.5 1.9 1.4 .86 .655 .76 e.99 .86 .555	DISCHARGE (CFS) 1.5 1.3 1.2 1.2 1.2 1.2 1.1 1.1 1.4 1.5 1.2 1.1 1.1 1.0 .99 .95 .91 .94 1.1 1.0 .89 .85 .81 .78 .78 .78	CONCEN- TRATION (MG/L) MAY 156 148 164 232 105 77 159 148 142 127 106 123 150 95 78 87 171 169 116 116 123 108 87 91	DISCHARGE (TONS/DAY) .62 .53 .55 .76 e.59 .32 .24 .63 .61 .48 .39 .31 .35 .41 e.35 .41 e.35 .41 .22 .49 e.57 .41 .27 .25 .26 e.26 .22 .18	DISCHARGE (CFS) .49 .44 .45 .40 .40 .38 .36 .34 .31 .29 .30 .30 .23 .20 .19 .18 .18 .19 .25 .24 .19 .17 .16 .30 .36 .73 .11 .81	CONCENTRATION (MG/L) JUNE 54 70 58 46 53 81 47 34 52 46 32 40 54 90 132 319 344	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08 .06 .05 .07 e.07 e.05 .04 e.04 .03 e.02 e.02 .02 e.02 .02 e.02 .02 .02 .02 .03 e.04 .03
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	DISCHARGE (CFS) e1.0 e1.0 e1.0 e1.2 e1.8 e2.5 e3.5 3.4 2.6 2.4 2.8 2.3 2.0 2.2 2.5 2.5 2.1 1.2 2.2 2.4 2.1 1.9 1.7 1.6 1.5 1.4 1.3	CONCEN- TRATION (MG/L) APRIL 604 827 594 365 216 396 512 320 243 236 333 281 183 136 122 177 226 154 155 227	DISCHARGE (TONS/DAY) e.27 e.28 e.37 e.78 e2.0 e7.8 6.0 5.7 3.9 e3.4 2.3 1.2 2.4 3.5 e3.0 1.8 1.4 1.5 1.9 1.4 .86 .655 .76 e.99 .86 .555 .76 e.99 .86 .80 e.79	DISCHARGE (CFS) 1.5 1.3 1.2 1.2 1.2 1.2 1.1 1.1 1.4 1.5 1.2 1.1 1.1 1.0 .99 .95 .91 .94 1.1 1.0 .89 .85 .81 .78 .76 .75 .68 .64 .61	CONCEN- TRATION (MG/L) MAY 156 148 164 232 105 77 159 148 142 127 106 123 150 95 78 87 171 169 116 116 123 108 87 91 86	DISCHARGE (TONS/DAY) .62 .53 .55 .76 e.59 .32 .24 .63 .61 .48 .39 .31 .35 .41 e.35 .41 e.35 .41 .22 .49 e.57 .41 .27 .25 .26 e.26	DISCHARGE (CFS) .49 .44 .45 .40 .40 .38 .36 .34 .31 .29 .30 .30 .20 .19 .18 .18 .19 .25 .24 .19 .17 .16 .30 .36 .73 .11	CONCENTRATION (MG/L) JUNE 54 70 58 46 53 81 52 47 34 52 46 32 46 54 90 132 319	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08 .06 .05 .07 e.07 e.07 e.05 .04 e.04 .03 e.02 e.02 .02 .03 e.04 .03 e.02 .02 .02 .03 e.04 .03
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	DISCHARGE (CFS) e1.0 e1.0 e1.0 e1.2 e1.8 e2.5 e3.5 3.4 2.8 2.3 2.0 2.2 2.5 2.5 2.1 2.1 1.9 1.7 1.8 1.7 1.8 1.7 1.6 1.5	CONCEN- TRATION (MG/L) APRIL 604 827 594 365 216 396 512 320 243 236 333 281 183 136 122 177 226 154 155 227	DISCHARGE (TONS/DAY) e.27 e.28 e.37 e.78 e2.0 e7.8 6.0 5.7 3.9 e3.4 2.3 1.2 2.4 3.5 e3.0 1.8 1.4 1.5 1.9 1.4 .86 .65 .55 .76 e.99 .86 .55 .76 e.99	DISCHARGE (CFS) 1.5 1.3 1.2 1.2 1.2 1.1 1.1 1.1 1.4 1.5 1.2 1.1 1.1 1.0 .99 .95 .91 .94 1.1 1.0 .89 .85 .81 .78 .76 .75 .68	CONCEN- TRATION (MG/L) MAY 156 148 164 232 105 77 159 148 142 127 106 123 150 95 78 87 171 169 116 113 116 1123 108 87 91 108 87 91 86	DISCHARGE (TONS/DAY) .62 .53 .55 .76 e.59 .32 .24 .63 .61 .48 .39 .31 .35 .41 e.35 .41 e.35 .41 .22 .49 e.57 .41 .27 .25 .26 e.26 .22 .18 .17 .15	DISCHARGE (CFS) .49 .44 .45 .40 .40 .38 .36 .34 .31 .29 .30 .23 .20 .19 .18 .18 .19 .25 .24 .19 .17 .16 .30 .36 .73 1.1 .81 .81	CONCENTRATION (MG/L) JUNE 54 70 58 46 53 81 47 34 52 46 32 40 54 40 54 90 132 319 344	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08 .06 .05 .07 e.07 e.07 e.05 .04 e.04 .03 e.02 e.02 .02 .03 e.04 .03 e.02 .02 .02 .03 e.04 .03 e.09 .28 .90 .75 e.48
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	DISCHARGE (CFS) e1.0 e1.0 e1.0 e1.2 e1.8 e2.5 e3.5 3.4 2.8 2.3 2.0 2.2 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	CONCEN- TRATION (MG/L) APRIL 604 827 594 365 216 396 512 320 243 236 333 281 183 136 122 177 226 154 155 227	DISCHARGE (TONS/DAY) e.27 e.28 e.37 e.78 e2.0 e7.8 6.0 5.7 3.9 e3.4 2.3 1.2 2.4 3.5 e3.0 1.8 1.4 1.5 1.9 1.4 .86 .655 .76 e.99 .86 .555 .76 e.99 .86 .80 e.79	DISCHARGE (CFS) 1.5 1.3 1.2 1.2 1.2 1.2 1.1 1.1 1.4 1.5 1.2 1.1 1.1 1.0 .99 .95 .91 .94 1.1 1.0 .89 .85 .81 .78 .76 .75 .68 .64 .61	CONCEN- TRATION (MG/L) MAY 156 148 164 232 105 77 159 148 142 127 106 123 150 95 78 87 171 169 116 116 123 108 87 91 86	DISCHARGE (TONS/DAY) .62 .53 .55 .76 e.59 .32 .24 .63 .61 .48 .39 .31 .35 .41 e.35 .41 e.35 .41 .22 .49 e.57 .41 .27 .25 .26 e.26 e.26 .22 .18 .17 .15 e.11	DISCHARGE (CFS) .49 .44 .45 .40 .40 .38 .36 .34 .31 .29 .30 .30 .23 .20 .19 .18 .18 .19 .25 .24 .19 .17 .16 .30 .36 .73 1.1 .81 .81 .81 .81 .81 .81 .81 .81 .81	CONCENTRATION (MG/L) JUNE 54 70 58 46 53 81 52 47 46 32 40 54 46 32 40 54 183	DISCHARGE (TONS/DAY) e.07 .06 .09 e.08 .06 .05 .05 .07 e.07 e.05 .04 e.04 .03 e.02 e.02 .02 .03 e.04 .03 e.02 .02 .02 .03 e.04 .03

07093740 BADGER CREEK, UPPER STATION, NEAR HOWARD, CO--Continued
SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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 2 3 4 5	.40 .35 .34 .27	142 210 268 150	.15 .20 .24 e.16 .08	.28 .31 .29 .33 .32	137 144 145 136	.10 .12 e.11 .13 .12	.41 .36 .33 .32	70 62 68 63	.08 e.06 .06 .06
6 7 8 9 10	.17 .18 .37 .31	129 171 330 203	.06 .09 .34 e.26 .17	.27 .25 .29 .23	109 132 123 115	.08 .09 e.11 .08 .07	.46 .40 .39 .42	107 72 64 64 69	.13 .08 .07 .07
11 12 13 14 15	.23 .39 9.0 6.1 3.8	201 434 1380 1350 1620	.13 .47 44 111 23	.41 .36 .43 .40	154 146 153 164	.17 .14 e.18 .17 .24	.31 .30 .30 .30 .28	50 63 46 	.04 e.05 .05 .04 e.03
16 17 18 19 20	1.1 1.5 .96 .80 e.80	449 585 382 	1.3 2.4 1.0 e.54 e.40	e5.0 e12 e5.0 e.70 e.65	 	e34 e120 e39 e.94 e.29	.27 .28 .30 .30	35 35 51 51	.03 .03 .04 .04 e.03
21 22 23 24 25	e.60 e.50 e.45 e.40 e.36	 	e.26 e.24 e.23 e.19 e.24	e.70 .71 .57 .56 2.1	 218 90 968	e.34 .42 e.20 .14	.41 .54 .50 .55	41 62 41 37	.05 .09 .06 .06 e.06
26 27 28 29 30 31	.36 .43 .47 .40 .35	203 194 240 164 148	.20 e.23 .30 e.22 .15	.70 .57 .48 .44 .44	519 126 85 97 72	1.1 .20 e.10 .10 .12	.46 .44 .45 .47 .49	44 49 77 66 	.05 .06 .09 .08 e.08
TOTAL	32.24		188.39	35.97		222.95	11.62		1.81

e Estimated.

07093775 BADGER CREEK, LOWER STATION, NEAR HOWARD, CO

LOCATION.--Lat $38^{\circ}28^{\circ}02^{\circ}$, long $105^{\circ}51^{\circ}34^{\circ}$, in $SW^{1}/_{4}SW^{1}/_{4}$ 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

DRAINAGE AREA. -- 211 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1980 to September 1996, October 1996 to current year (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. -- No estimated daily discharges. Records fair.

EXTREMES FOR PERIOD OF RECORD .--Maximum discharge, 2,900 ft³/s, July 8, 1996, from rating curve extended above 161 ft³/s on 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 (seasonal only).--Maximum discharge, 622 ft³/s, at 1635 Aug. 17, gage height, 6.43 ft, from rating curve extended above 161 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 3.1 ft³/s, Aug. 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		21001111	02, 00210	1221 121	DAILY	MEAN VA	LUES	2333 20	02112122	10000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0						7.2	7.4	6.0	5.2	4.5	4.9
2	6.0						7.3	7.0	6.1	5.1	4.5	4.3
3	5.9						7.4	6.8	6.3	5.1	4.6	4.4
4	5.9						7.3	6.7	6.1	4.8	4.4	4.2
5	5.9						7.8	6.6	6.2	4.5	3.9	4.3
3	3.7						7.0	0.0	0.2	1.5	3.7	4.5
6	6.0						8.2	6.5	6.0	4.4	3.8	4.5
7	6.1						8.3	6.4	5.8	4.5	3.8	4.5
8	6.2						8.2	9.1	5.6	5.0	3.7	4.6
9	6.0						8.1	9.8	5.6	4.9	3.6	4.5
10	5.9						8.4	8.9	5.6	4.7	4.1	4.4
11	5.9						8.5	7.9	5.6	4.6	3.1	4.2
12	5.8						8.0	7.6	5.5	5.0	3.2	4.1
13	5.9						8.1	7.4	5.3	6.9	3.5	4.0
	5.9											
14							8.1	7.4	5.2	6.9	3.4	4.0
15	6.0						8.1	7.2	5.0	7.9	3.5	4.0
16	6.3						7.6	7.0	5.1	8.1	3.9	3.9
17	6.2						7.5	7.1	5.3	9.3	16	4.0
18	6.3						7.5	8.2	5.4	7.5	9.2	4.0
19	6.4						7.5	8.7	5.3	6.3	5.0	3.9
20	6.2						7.2	8.4	5.1	5.9	4.6	4.0
21	6.0						7.3	7.8	4.9	5.7	4.5	4.2
22	5.8						7.3	7.8	4.7	5.4	4.6	4.3
23	5.8						7.3		4.7	5.3	4.0	4.5
								6.9				
24	5.8						7.2	6.8	5.0	5.1	4.6	4.8
25	5.8						7.0	7.4	5.0	5.2	5.0	4.5
26	5.8						6.9	7.5	6.2	5.2	4.4	4.3
27	5.8						6.8	7.3	6.2	5.3	3.6	4.2
28	5.8						6.9	6.7	5.7	5.4	13	4.2
29	6.0						6.9	6.4	5.4	5.1	4.6	4.3
30	5.8						7.6	6.2	5.2	5.0	4.7	4.3
31	5.8							6.2		4.7	5.0	
J±	5.0							0.2		7./	5.0	
TOTAL	185.0						227.5	228.5	165.0	174.0	155.0	128.3
MEAN	5.97						7.58	7.37	5.50	5.61	5.00	4.28
MAX	6.4						8.5	9.8	6.3	9.3	16	4.9
MTN	5.8						6.8	6.2	4.6	4.4	3.1	3.9
AC-FT	367						451	453	327	345	307	254
AC II	307						ュンエ	423	24/	243	307	234

07093775 BADGER CREEK, LOWER STATION, NEAR HOWARD, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.-WATER TEMPERATURE.--March 1995 to current year (seasonal records only).
SUSPENDED SEDIMENT.--June 1981 to September 1996 (seasonal records only).

INSTRUMENTATION.--Water temperature probe with satellite telemetry since March 1995.

REMARKS.--Records for daily water temperature are fair. Daily water temperature data not published are either missing or of unacceptable quailty.

EXTREMES FOR PERIOD OF RECORD.-WATER TEMPERATURE (seasonal only): Maximum, 29.8°C, July 22, 1997; minimum, 0.0°C, several days in 1996 and 1998.
SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 18,200 mg/L, Apr. 18, 1987; minimum daily mean, 1 mg/L, several days in 1981, 1986, 1988-89, and 1994.
SEDIMENT LOAD (seasonal only): Maximum daily, 31,500 tons (estimated), July 28, 1984; minimum daily, 0.00 ton, Sept 12-30, 1981.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE (seasonal only): Maximum, 29.6°C, July 14 and Aug. 15; minimum, 0.1°C, Apr. 2.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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					JUL				
01	1500	6.1	1020	19.0	07	0900	4.6	1070	14.9
NOV					10	1800	4.3	1030	22.2
15	1400	4.8	1030	12.8	AUG				
MAR					04	1300	3.9	1050	25.9
22	1430	7.5	982	2.6	21	1800	4.8	1110	16.6
MAY					SEP				
08	1500	12	826	10.3	01	1100	4.9	1130	18.1
JUN									
22	1400	4.5	1030	21.8					

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	VEMBER		DE	CEMBER			JANUARY	7
1	18.9	4.9	10.1									
2	17.8	5.3	10.0									
3	18.7	6.5	10.5									
4	18.2	4.1	9.5									
5	19.0	4.1	9.8									
6	17.9	6.4	10.5									
7	13.1	7.2	10.0									
8	18.3	5.1	9.8									
9	19.9	5.1	10.5									
10	19.6	5.3	10.5									
11	19.0	5.6	10.4									
12	18.1	4.8	9.9									
13	18.3	5.0	9.9									
14	17.7	5.0	9.7									
15	17.4	4.8	8.9									
		1.0	0.5									
16	6.8	3.7	5.3									
17	14.1	1.3	6.1									
18	12.1	2.4	6.0									
19	14.9	3.9	7.5									
20	15.6	2.6	7.3									
21	16.0	2.6	7.5									
22	15.6	2.9	7.5									
23	15.9	2.9	7.6									
24	15.9	2.6	7.4									
25	15.2	2.7	7.3									
23	10.2	2.,	7.5									
26	15.3	2.5	7.1									
27	15.1	3.1	7.5									
28	13.9	3.1	7.2									
29	10.6	2.8	6.2									
30	13.4	1.3	5.7									
31	14.8	1.9	6.6									
MONTH	19.9	1.3	8.4									

ARKANSAS RIVER BASIN 07093775 BADGER CREEK, LOWER STATION, NEAR HOWARD, CO--Continued

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DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1							14.1	.6	5.4	20.1	4.7	10.4
2							16.0	.1	5.7	21.7	4.7	11.7
3 4							15.1 18.4	.5 1.9	6.0 8.1	23.2 23.5	6.2 6.9	13.0 13.9
5							17.7	3.7	9.0	22.8	6.8	13.2
6							16.8	3.8	8.6	22.3	6.6	13.0
7							16.2	4.1	8.6	22.4	7.0	12.6
8 9							17.0 18.2	1.9	7.9	10.8	7.1	9.3
10							16.8	3.3 3.6	9.1 8.1	20.6 22.3	5.1 6.8	11.4 12.8
11							9.6	4.1	6.1	21.0	7.4	12.1
12							18.2	2.3	8.6	18.7	4.1	9.5
13							17.9	4.2	9.6	19.8	3.7	10.2
14 15							16.4 14.7	4.3	8.6 7.9	18.8 21.2	5.1 5.7	11.0 11.9
15							14./	4.0	7.9	21.2	5.7	11.9
16							18.6	3.0	9.2	17.6	7.7	11.4
17							19.8 17.4	4.2	10.1 9.2	14.0	7.0 6.5	9.4 9.1
18 19							13.9	4.4 2.6	6.5	13.4 19.9	6.3	10.9
20							19.5	3.0	9.5	18.5	5.9	11.3
21							16.6	4.0	9.1	23.1	6.7	13.2
22							14.4	4.0	8.2	24.2	7.5	14.3
23							16.2		10.0	25.6	8.8	15.6
24 25							18.8 19.1	5.8 2.6	10.1 9.4	21.2 20.1	9.4 10.2	14.3 13.5
23							17.1	2.0	7.4	20.1	10.2	13.3
26							21.0	4.2	11.4	18.0	8.2	11.8
27 28							21.5 20.0	5.9 5.8	12.0 11.0	24.3 23.2	7.0 7.8	14.0 14.7
29							19.6	6.2	11.3	22.2	9.2	14.9
30							8.9	5.5	7.3	24.9	8.6	14.5
31										25.0	9.6	15.7
MONTH							21.5	.1	8.7	25.6	3.7	12.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN		MIN AUGUST	MEAN	MAX	MIN SEPTEMBE	
DAY 1	MAX 23.3		MEAN	MAX 25.6		MEAN			MEAN	MAX		
1 2	23.3 21.4	JUNE 8.3 10.6	14.4 14.6	25.6 24.5	JULY 11.2 11.1	17.1 16.4	25.7 26.6	AUGUST 12.7 13.3	18.1 18.5	 20.7	SEPTEMBE	ER 14.6
1 2 3	23.3 21.4 23.3	JUNE 8.3 10.6 9.4	14.4 14.6 14.4	25.6 24.5 26.8	JULY 11.2 11.1 12.7	17.1 16.4 16.9	25.7 26.6 27.9	AUGUST 12.7 13.3 14.3	18.1 18.5 18.9	20.7 23.3	SEPTEMBE 10.6 9.3	 14.6 13.9
1 2	23.3 21.4	JUNE 8.3 10.6	14.4 14.6	25.6 24.5	JULY 11.2 11.1	17.1 16.4	25.7 26.6	AUGUST 12.7 13.3	18.1 18.5	 20.7	SEPTEMBE	ER 14.6
1 2 3 4 5	23.3 21.4 23.3 25.5 25.7	JUNE 8.3 10.6 9.4 8.7 8.6	14.4 14.6 14.4 14.7 14.2	25.6 24.5 26.8 26.7 26.8	JULY 11.2 11.1 12.7 10.5 8.9	17.1 16.4 16.9 16.6 16.2	25.7 26.6 27.9 28.1 27.1	12.7 13.3 14.3 13.9 12.7	18.1 18.5 18.9 18.7	20.7 23.3 25.0 26.2	 10.6 9.3 9.1 11.5	 14.6 13.9 15.4 16.5
1 2 3 4 5	23.3 21.4 23.3 25.5 25.7	JUNE 8.3 10.6 9.4 8.7 8.6	14.4 14.6 14.4 14.7 14.2	25.6 24.5 26.8 26.7 26.8	JULY 11.2 11.1 12.7 10.5 8.9 10.3	17.1 16.4 16.9 16.6 16.2	25.7 26.6 27.9 28.1 27.1	AUGUST 12.7 13.3 14.3 13.9 12.7 11.9	18.1 18.5 18.9 18.7 18.4	20.7 23.3 25.0 26.2	SEPTEMBE 10.6 9.3 9.1 11.5	 14.6 13.9 15.4 16.5
1 2 3 4 5 6 7 8	23.3 21.4 23.3 25.5 25.7 26.0 27.1 25.7	JUNE 8.3 10.6 9.4 8.7 8.6 9.1 8.7 9.8	14.4 14.6 14.4 14.7 14.2 15.3 15.8 15.7	25.6 24.5 26.8 26.7 26.8 28.1 26.6 25.6	JULY 11.2 11.1 12.7 10.5 8.9 10.3 13.0 11.8	17.1 16.4 16.9 16.6 16.2 17.7 16.8 17.1	25.7 26.6 27.9 28.1 27.1 28.5 26.6 29.3	12.7 13.3 14.3 13.9 12.7 11.9 11.4 10.6	18.1 18.5 18.9 18.7 18.4	20.7 23.3 25.0 26.2 18.8 24.1 18.3	SEPTEMBE 10.6 9.3 9.1 11.5 11.5 10.4 10.0	14.6 13.9 15.4 16.5 14.1 14.6 13.1
1 2 3 4 5 6 7 8 9	23.3 21.4 23.3 25.5 25.7 26.0 27.1 25.7 25.2	JUNE 8.3 10.6 9.4 8.7 8.6 9.1 8.7 9.8 11.7	14.4 14.6 14.4 14.7 14.2 15.3 15.8 15.7 16.2	25.6 24.5 26.8 26.7 26.8 28.1 26.6 25.6 25.3	JULY 11.2 11.1 12.7 10.5 8.9 10.3 13.0 11.8 12.8	17.1 16.4 16.9 16.6 16.2 17.7 16.8 17.1 17.2	25.7 26.6 27.9 28.1 27.1 28.5 26.6 29.3 28.7	12.7 13.3 14.3 13.9 12.7 11.9 11.4 10.6 10.7	18.1 18.5 18.9 18.7 18.4 18.3 17.3 17.6 17.6	20.7 23.3 25.0 26.2 18.8 24.1 18.3 23.2	SEPTEMBE 10.6 9.3 9.1 11.5 11.5 10.4 10.0 9.5	14.6 13.9 15.4 16.5 14.1 14.6 13.1 14.2
1 2 3 4 5 6 7 8	23.3 21.4 23.3 25.5 25.7 26.0 27.1 25.7	JUNE 8.3 10.6 9.4 8.7 8.6 9.1 8.7 9.8	14.4 14.6 14.4 14.7 14.2 15.3 15.8 15.7	25.6 24.5 26.8 26.7 26.8 28.1 26.6 25.6	JULY 11.2 11.1 12.7 10.5 8.9 10.3 13.0 11.8	17.1 16.4 16.9 16.6 16.2 17.7 16.8 17.1	25.7 26.6 27.9 28.1 27.1 28.5 26.6 29.3	12.7 13.3 14.3 13.9 12.7 11.9 11.4 10.6	18.1 18.5 18.9 18.7 18.4	20.7 23.3 25.0 26.2 18.8 24.1 18.3	SEPTEMBE 10.6 9.3 9.1 11.5 11.5 10.4 10.0	14.6 13.9 15.4 16.5 14.1 14.6 13.1
1 2 3 4 5 6 7 8 9 10	23.3 21.4 23.3 25.5 25.7 26.0 27.1 25.7 25.2 23.2	JUNE 8.3 10.6 9.4 8.7 8.6 9.1 8.7 8.6 9.1 8.7 8.6	14.4 14.6 14.7 14.2 15.3 15.8 15.7 16.2 14.5	25.6 24.5 26.8 26.7 26.8 28.1 26.6 25.6 25.3 25.1	JULY 11.2 11.1 12.7 10.5 8.9 10.3 13.0 11.8 12.8 12.1 11.9	17.1 16.4 16.9 16.6 16.2 17.7 16.8 17.1 17.2 17.7	25.7 26.6 27.9 28.1 27.1 28.5 26.6 29.3 28.7 28.4	12.7 13.3 14.3 13.9 12.7 11.9 11.4 10.6 10.7 12.2	18.1 18.5 18.9 18.7 18.4 18.3 17.6 17.6 17.5	20.7 23.3 25.0 26.2 18.8 24.1 18.3 23.2 23.4	SEPTEMBE 10.6 9.3 9.1 11.5 11.5 10.4 10.0 9.5 8.6	14.6 13.9 15.4 16.5 14.1 14.6 13.1 14.2 14.1
1 2 3 4 5 6 7 8 9 10	23.3 21.4 23.3 25.5 25.7 26.0 27.1 25.7 25.2 23.2	JUNE 8.3 10.6 9.4 8.7 8.6 9.1 8.7 9.8 11.7 8.6	14.4 14.6 14.4 14.7 14.2 15.3 15.8 15.7 16.2 14.5	25.6 24.5 26.8 26.7 26.8 28.1 26.6 25.6 25.3 25.1	JULY 11.2 11.1 12.7 10.5 8.9 10.3 13.0 11.8 12.8 12.1 11.9 13.8	17.1 16.4 16.9 16.6 16.2 17.7 16.8 17.1 17.2 17.7	25.7 26.6 27.9 28.1 27.1 28.5 26.6 29.3 28.7 28.4	AUGUST 12.7 13.3 14.3 13.9 12.7 11.9 11.4 10.6 10.7 12.2 12.6 13.2	18.1 18.5 18.9 18.7 18.4 18.3 17.3 17.6 17.6 17.5	20.7 23.3 25.0 26.2 18.8 24.1 18.3 23.2 23.4	SEPTEMBE 10.6 9.3 9.1 11.5 11.5 10.4 10.0 9.5 8.6 8.8	14.6 13.9 15.4 16.5 14.1 14.6 13.1 14.2 14.1
1 2 3 4 5 6 7 8 9 10	23.3 21.4 23.3 25.5 25.7 26.0 27.1 25.7 25.2 23.2	JUNE 8.3 10.6 9.4 8.7 8.6 9.1 8.7 8.6 9.1 8.7 8.6	14.4 14.6 14.7 14.2 15.3 15.8 15.7 16.2 14.5	25.6 24.5 26.8 26.7 26.8 28.1 26.6 25.6 25.3 25.1	JULY 11.2 11.1 12.7 10.5 8.9 10.3 13.0 11.8 12.8 12.1 11.9	17.1 16.4 16.9 16.6 16.2 17.7 16.8 17.1 17.2 17.7	25.7 26.6 27.9 28.1 27.1 28.5 26.6 29.3 28.7 28.4	12.7 13.3 14.3 13.9 12.7 11.9 11.4 10.6 10.7 12.2	18.1 18.5 18.9 18.7 18.4 18.3 17.6 17.6 17.5	20.7 23.3 25.0 26.2 18.8 24.1 18.3 23.2 23.4	SEPTEMBE 10.6 9.3 9.1 11.5 11.5 10.4 10.0 9.5 8.6	14.6 13.9 15.4 16.5 14.1 14.6 13.1 14.2 14.1
1 2 3 4 5 6 7 8 9 10 11 12 13	23.3 21.4 23.3 25.5 25.7 26.0 27.1 25.7 25.2 23.2 22.3 23.7 25.2	JUNE 8.3 10.6 9.4 8.7 8.6 9.1 8.7 9.8 11.7 8.6 9.1 8.2 8.5	14.4 14.6 14.4 14.7 14.2 15.3 15.8 15.7 16.2 14.5 15.2	25.6 24.5 26.8 26.7 26.8 28.1 25.6 25.3 25.1 28.2 25.0 28.7	JULY 11.2 11.1 12.7 10.5 8.9 10.3 13.0 11.8 12.8 12.1	17.1 16.4 16.9 16.6 16.2 17.7 16.8 17.1 17.2 17.7 18.7 17.3 17.4	25.7 26.6 27.9 28.1 27.1 28.5 26.6 29.3 28.7 28.4	12.7 13.3 14.3 13.9 12.7 11.9 11.4 10.6 10.7 12.2	18.1 18.5 18.9 18.7 18.4 17.3 17.6 17.5 17.5	20.7 23.3 25.0 26.2 18.8 24.1 18.3 23.2 23.4 24.1 24.7 25.1	SEPTEMBE 10.6 9.3 9.1 11.5 11.5 11.5 10.4 10.0 9.5 8.6 8.8 8.2 8.4	14.6 13.9 15.4 16.5 14.1 14.6 13.1 14.2 14.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	23.3 21.4 23.3 25.5 25.7 26.0 27.1 25.2 23.2 22.3 23.2 22.3 25.5	JUNE 8.3 10.6 9.4 8.7 8.6 9.1 8.7 8.6 9.1 8.7 8.6 9.1 9.5	14.4 14.6 14.4 14.7 14.2 15.3 15.8 15.7 16.2 14.5 14.0 14.5 15.2 15.9 16.0	25.6 24.5 26.8 26.7 26.8 28.1 26.6 25.3 25.1 28.2 25.0 28.7 29.6 26.8	JULY 11.2 11.1 12.7 10.5 8.9 10.3 13.0 11.8 12.8 12.1 11.9 13.8 12.1 21.9	17.1 16.4 16.9 16.6 16.2 17.7 16.8 17.1 17.2 17.7 18.7 17.4 18.3 17.9	25.7 26.6 27.9 28.1 27.1 28.5 26.6 29.3 28.7 28.4 28.1 23.3 29.4 27.7 29.6	12.7 13.3 14.3 13.9 12.7 11.9 11.6 10.7 12.2 12.6 13.2 12.7 12.5	18.1 18.5 18.9 18.7 18.4 18.3 17.6 17.6 17.6 17.5	20.7 23.3 25.0 26.2 18.8 24.1 18.3 23.2 23.4 24.1 24.7 25.1 23.9 24.6	SEPTEMBE 10.6 9.3 9.1 11.5 11.5 10.4 10.0 9.5 8.6 8.8 8.2 8.4 9.1 9.2	14.6 13.9 15.4 16.5 14.1 14.2 14.1 14.2 14.1 14.4 14.4 14.8 14.7
1 2 3 4 5 6 7 7 8 9 10	23.3 21.4 23.3 25.5 25.7 26.0 27.1 25.7 25.2 23.2 22.3 23.7 25.2 26.0	JUNE 8.3 10.6 9.4 8.7 8.6 9.1 8.7 8.6 9.1 8.7 8.6 9.1 8.5 9.0	14.4 14.6 14.7 14.2 15.3 15.8 16.2 14.5 14.0 14.5 15.9	25.6 24.5 26.8 26.7 26.8 28.1 26.6 25.3 25.1 28.2 25.0 28.7 29.6	JULY 11.2 11.1 12.7 10.5 8.9 10.3 13.0 11.8 12.8 12.1 11.9 13.8 12.1 11.9 13.3 12.2 13.7	17.1 16.9 16.6 16.2 17.7 16.8 17.1 17.2 17.7 18.7 17.3 17.4 18.3	25.7 26.6 27.9 28.1 27.1 28.5 26.6 29.3 28.7 28.4 28.1 23.3 29.4 27.7	12.7 13.3 14.3 13.9 12.7 11.9 11.6 10.7 12.2 12.6 13.2 12.7 12.5	18.1 18.5 18.9 18.7 18.4 18.3 17.6 17.6 17.5 17.2 16.4 18.7 17.6	20.7 23.3 25.0 26.2 18.8 24.1 18.3 23.2 23.4 24.1 24.7 25.1 23.9	SEPTEMBE 10.6 9.3 9.1 11.5 11.5 10.0 9.5 8.6 8.8 8.2 9.1 9.2	14.6 13.9 15.4 16.5 14.1 14.2 14.1 14.4 14.4 14.4 14.4
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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	23.3 21.4 23.3 25.5 25.7 26.0 27.1 25.7 25.2 23.2 22.3 23.7 25.2 26.0 25.6 24.3 23.5 21.9 24.6 26.0	JUNE 8.3 10.6 9.4 8.7 8.6 9.1 8.7 9.8 11.7 8.6 9.1 8.2 8.5 9.0 9.5 9.0 9.6 8.3 10.7 9.7 9.5 10.4	14.4 14.6 14.4 14.7 14.2 15.3 15.8 15.7 16.2 14.5 15.2 15.9 16.0 14.6 14.5 13.5 15.8 16.0	25.6 24.5 26.8 26.7 26.8 28.1 26.6 25.6 25.3 25.1 28.2 25.0 28.7 29.6 26.8 26.8 27.7 27.2 26.8	JULY 11.2 11.1 12.7 10.5 8.9 10.3 13.0 11.8 12.8 12.1 11.9 13.8 12.3 12.2 13.7 13.5 13.7 12.3 11.2 13.7 12.3 13.2	17.1 16.4 16.9 16.6 16.2 17.7 16.8 17.1 17.2 17.7 18.3 17.4 18.3 17.9 18.2 17.7 18.2 17.9 18.2	25.7 26.6 27.9 28.1 27.1 28.5 26.6 29.3 28.7 28.4 27.7 29.6 26.9 25.4 24.8	AUGUST 12.7 13.3 14.3 13.9 12.7 11.9 11.4 10.6 10.7 12.2 12.6 13.2 12.2 12.7 12.5 12.8 13.2 12.1	18.1 18.5 18.9 18.7 18.4 18.3 17.6 17.6 17.5 17.2 16.4 18.7 17.6 18.0	20.7 23.3 25.0 26.2 18.8 24.1 18.3 23.2 23.4 24.1 24.7 25.1 23.9 24.6 25.3 23.1 22.5 23.1 12.5 21.7	SEPTEMBE 10.6 9.3 9.1 11.5 11.5 10.4 10.0 9.5 8.6 8.8 8.2 8.4 9.1 9.2 8.9 9.3 11.2 8.8 8.2 6.5 9.9	14.6 13.9 15.4 16.5 14.1 14.2 14.1 14.2 14.1 14.4 14.4 15.1 11.5 15.0 14.1 11.5
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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 22 24 25 26 27 28	23.3 21.4 23.3 25.5 25.7 26.0 27.1 25.7 25.2 23.2 22.3 23.7 25.6 24.3 23.5 21.9 24.6 26.0 27.2 24.8 23.6 24.9 27.2	JUNE 8.3 10.6 9.4 8.7 8.6 9.1 8.7 9.8 11.7 8.6 9.1 8.2 8.5 9.0 9.5 9.0 9.6 8.3 10.7 9.7 10.7 12.7 12.7 12.6	14.4 14.6 14.4 14.7 14.7 15.3 15.8 15.7 16.2 14.5 14.5 15.9 16.0 14.6 14.5 13.5 15.8 16.0 16.4 16.0 16.8	25.6 24.5 26.8 26.7 26.8 28.1 26.6 25.6 25.3 25.1 28.2 25.0 28.7 29.6 26.8 26.9 23.8 27.7 26.8 25.4 28.0 27.5 26.8	UULY 11.2 11.1 12.7 10.5 8.9 10.3 13.0 11.8 12.8 12.1 11.9 13.8 12.3 12.2 13.7 13.5 13.7 12.3 12.2 13.0 13.4 13.2 12.8 12.1 12.6 12.6 13.5 12.6	17.1 16.4 16.9 16.6 16.2 17.7 16.8 17.1 17.2 17.7 18.7 17.3 17.4 18.3 17.9 18.2 17.7 18.2 17.7 18.5 18.9 16.6 18.2 17.7 17.7	25.7 26.6 27.9 28.1 27.1 28.5 26.6 29.3 28.7 28.4 29.4 27.7 29.6 26.9 25.4 24.8 26.2 24.6 27.2	AUGUST 12.7 13.3 14.3 13.9 12.7 11.9 11.4 10.6 10.7 12.2 12.6 13.2 12.2 12.5 12.8 13.2 12.1 11.0 11.0 11.2	18.1 18.5 18.9 18.7 18.4 18.3 17.6 17.5 17.2 16.4 18.0 17.5 18.0 17.5 18.0 17.5 18.0 17.5 18.0	20.7 23.3 25.0 26.2 18.8 24.1 18.3 23.2 23.4 24.1 24.7 25.1 23.9 24.6 25.3 23.1 16.4 19.7 21.7 10.4 18.9 19.7	SEPTEMBE 10.6 9.3 9.1 11.5 10.4 10.0 9.5 8.6 8.8 8.2 8.4 9.1 9.2 8.9 9.3 11.2 8.9 9.3 11.3 11.5 10.4 10.0 9.5 8.6 8.8 8.2 8.4 9.1 9.2	14.6 13.9 15.4 16.5 14.1 14.6 13.1 14.2 14.1 14.4 14.8 14.7 15.1 14.9 14.5 15.1 11.5 11.9 13.9 14.5 15.1 11.5
1 2 2 3 4 5 5 6 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	23.3 21.4 23.3 25.5 25.7 26.0 27.1 25.7 25.2 23.2 22.3 23.7 25.2 26.0 25.6 24.3 23.5 21.9 24.6 24.8 23.6 24.8 23.6 24.8 23.6 24.8 23.6 24.8 24.8 25.6 26.0 27.2 26.0 26.0 27.1 27.1 27.1 27.1 27.1 27.1 27.1 27.1	JUNE 8.3 10.6 9.4 8.7 8.6 9.1 8.7 9.8 11.7 8.6 9.1 8.5 9.0 9.5 9.0 9.6 8.3 10.7 9.7 11.5 9.7 10.7 12.7 12.0 12.6 12.3	14.4 14.6 14.4 14.7 14.2 15.3 15.8 15.7 16.2 14.5 15.2 15.9 16.0 14.5 13.5 16.0 16.4 16.0 15.3 15.3 16.0	25.6 24.5 26.8 26.7 26.8 28.1 26.6 25.6 25.3 25.1 28.2 29.6 26.8 27.7 29.6 8 27.7 27.2 26.8 25.4 28.0 27.5 26.8 27.1 28.1 28.1 28.2 27.2 26.8 27.1 28.1 28.1 28.1 29.1 29.1 29.1 29.1 29.1 29.1 29.1 29	JULY 11.2 11.1 12.7 10.5 8.9 10.3 13.0 11.8 12.8 12.1 11.9 13.8 12.3 12.2 13.7 13.5 13.7 12.3 11.2 13.0 13.4 13.2 12.8 12.1 12.6 12.6 13.5 12.6 12.8	17.1 16.4 16.9 16.6 16.2 17.7 16.8 17.1 17.2 17.7 18.7 17.4 18.3 17.9 18.2 17.7 18.2 17.7 18.5 18.3 18.9 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19	25.7 26.6 27.9 28.1 27.1 28.5 26.6 29.3 28.7 28.4 27.7 29.6 26.9 25.4 24.8 26.2 24.6 27.2	12.7 13.3 14.3 13.9 12.7 11.9 11.4 10.6 10.7 12.2 12.6 13.2 12.7 12.5 12.8 13.2 12.1 11.0 11.0 11.0	18.1 18.5 18.9 18.7 18.4 18.3 17.3 17.6 17.5 17.2 16.4 18.7 17.6 18.0 16.1 16.3 16.0 17.5	20.7 23.3 25.0 26.2 18.8 24.1 18.3 23.2 23.4 24.7 25.1 24.6 25.3 23.1 122.5 23.1 16.4 19.7 21.7 10.4 18.9 19.7	SEPTEMBE 10.6 9.3 9.1 11.5 11.5 10.4 10.0 9.5 8.6 8.8 8.2 8.4 9.1 9.2 8.9 9.3 11.2 8.8 8.2 6.5 9.9 5.4 4.3 4.8 5.9 6.6 8.3	14.6 13.9 15.4 16.5 14.1 14.6 13.1 14.2 14.1 14.4 14.8 14.7 15.1 14.9 14.5 15.1 11.5 11.9 13.4 8.9 6 10.3
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	23.3 21.4 23.3 25.5 25.7 26.0 27.1 25.7 25.2 23.2 22.3 23.7 25.6 24.3 23.5 21.9 24.6 26.0 27.2 24.8 23.6 24.9 27.2	JUNE 8.3 10.6 9.4 8.7 8.6 9.1 8.7 9.8 11.7 8.6 9.1 8.2 8.5 9.0 9.5 9.0 9.6 8.3 10.7 9.7 10.7 12.7 12.7 12.6	14.4 14.6 14.4 14.7 14.7 15.3 15.8 15.7 16.2 14.5 14.5 15.9 16.0 14.6 14.5 13.5 15.8 16.0 16.4 16.0 16.8	25.6 24.5 26.8 26.7 26.8 28.1 26.6 25.6 25.3 25.1 28.2 25.0 28.7 29.6 26.8 26.9 23.8 27.7 26.8 25.4 28.0 27.5 26.8	UULY 11.2 11.1 12.7 10.5 8.9 10.3 13.0 11.8 12.8 12.1 11.9 13.8 12.3 12.2 13.7 13.5 13.7 12.3 12.2 13.0 13.4 13.2 12.8 12.1 12.6 12.6 13.5 12.6	17.1 16.4 16.9 16.6 16.2 17.7 16.8 17.1 17.2 17.7 18.7 17.3 17.4 18.3 17.9 18.2 17.7 18.2 17.7 18.5 18.9 16.6 18.2 17.7 17.7	25.7 26.6 27.9 28.1 27.1 28.5 26.6 29.3 28.7 28.4 28.1 23.3 29.4 27.7 29.6 26.9 25.4 24.8 26.2 24.6 27.2	12.7 13.3 14.3 13.9 12.7 11.9 11.4 10.6 10.7 12.2 12.6 13.2 12.2 12.7 12.5 12.8 13.2 12.1 11.0 11.0 11.2	18.1 18.5 18.9 18.7 18.4 18.3 17.6 17.6 17.5 17.2 16.4 18.7 17.5 18.0 17.5 18.0 17.5 16.1 16.3 16.0 17.5	20.7 23.3 25.0 26.2 18.8 24.1 18.3 23.2 23.4 24.1 24.7 25.1 23.9 24.6 25.3 23.1 16.4 19.7 21.7 10.4 18.9 19.7	SEPTEMBE 10.6 9.3 9.1 11.5 10.4 10.0 9.5 8.6 8.8 8.2 8.4 9.1 9.2 8.9 9.3 11.2 8.9 9.3 11.3 11.5 10.4 10.0 9.5 8.6 8.8 8.2 8.4 9.1 9.2	14.6 13.9 15.4 16.5 14.1 14.6 13.1 14.2 14.1 14.4 14.8 14.7 15.1 14.9 14.5 15.1 11.5 11.9 13.9 14.5 15.1 11.5
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 30	23.3 21.4 23.3 25.5 25.7 26.0 27.1 25.7 25.2 23.2 22.3 23.7 25.2 26.0 25.6 24.3 23.5 21.9 24.8 23.6 24.8 23.6 24.9 27.2 24.8 23.6 24.8 25.6 26.0 27.1 26.0 27.1 26.0 27.1 27.1 27.1 27.2 27.2 27.2 27.2 27.2	JUNE 8.3 10.6 9.4 8.7 8.6 9.1 8.7 9.8 11.7 8.6 9.1 8.2 8.5 9.0 9.5 9.0 9.6 8.3 10.7 9.7 11.5 9.7 10.7 12.7 12.0 12.6 12.3 11.3	14.4 14.6 14.4 14.7 14.2 15.3 15.8 15.7 16.2 14.5 15.2 15.9 16.0 14.5 15.2 15.8 16.0 14.5 15.8 16.0 16.4 16.0 15.3 15.8 16.0	25.6 24.5 26.8 26.7 26.8 28.1 26.6 25.3 25.1 28.2 25.0 28.7 29.6 26.8 27.7 27.2 26.8 27.7 27.2 26.8 27.7 27.2 26.8	JULY 11.2 11.1 12.7 10.5 8.9 10.3 13.0 11.8 12.8 12.1 11.9 13.8 12.3 12.2 13.7 13.5 13.7 12.3 11.2 13.9 13.6 12.1 12.6 12.6 12.6 12.6 12.8	17.1 16.4 16.9 16.6 16.2 17.7 16.8 17.1 17.2 17.7 18.3 17.4 18.3 17.9 18.2 17.7 18.2 17.9 18.2 17.7 18.2 17.7 18.2 17.9 18.2 17.9 18.2 17.9 18.2 17.9 18.2 17.9 18.2 17.9 18.2 17.9 18.2 17.9 18.3 18.9 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19	25.7 26.6 27.9 28.1 27.1 28.5 26.6 29.3 28.7 28.4 28.1 23.3 29.4 27.7 29.6 26.9 25.4 24.8 26.2 24.6 27.2	AUGUST 12.7 13.3 14.3 13.9 12.7 11.9 11.4 10.6 10.7 12.2 12.6 13.2 12.7 12.5 12.8 13.2	18.1 18.5 18.9 18.7 18.4 18.3 17.6 17.6 17.5 17.2 16.4 18.7 17.6 18.0 17.5 18.0 16.1 16.3 16.0 17.5	20.7 23.3 25.0 26.2 18.8 24.1 18.3 23.2 23.4 24.1 25.1 23.9 24.6 25.3 23.1 22.5 23.1 16.4 19.7 21.7 10.4 18.9 19.7	SEPTEMBE 10.6 9.3 9.1 11.5 11.5 10.4 10.0 9.5 8.6 8.8 8.2 8.4 9.1 9.2 8.9 9.3 11.2 8.8 8.2 6.5 9.9 5.4 5.4 4.3 4.8 5.9 6.6 8.3 8.9	14.6 13.9 15.4 16.5 14.1 14.2 14.1 14.2 14.1 14.4 14.8 14.7 15.1 14.9 14.5 15.0 14.1 11.5 11.9 13.4 8.9 9.6 10.3

07094500 ARKANSAS RIVER AT PARKDALE, CO

LOCATION.--Lat $38^{\circ}29^{\circ}14^{\circ}$, long $105^{\circ}22^{\circ}23^{\circ}$, in $NE^{1}/_{4}NW^{1}/_{4}$ 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 records only). Monthly discharge only for October 1945 to May 1946, published in WSP 1311.

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 fair. 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (occurred during period of seasonal record), 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 (seasonal only).--Maximum discharge, 3,470 ${\rm ft}^3/{\rm s}$ at 1600 May 31, gage height, 6.07 ${\rm ft}$; minimum daily, 315 ${\rm ft}^3/{\rm s}$, Sept. 21.

		DISCHARGE	, CUBIC	FEET PER		WATER YEA MEAN VAI		1999 TO) SEPTEMBER	2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							372	635	3310	1030	823	546
2							362	557	3090	1010	847	456
3							389	560	2980	991	853	410
4							379	659	2960	990	848	391
5							428	759	2830	955	860	382
6							446	922	2720	954	842	379
7							418	990	2490	1010	829	383
8							404 377	1060	2300	1060	826	383
9								1070	2070	1070	839	378
10							372	988	1960	1100	831	378
11							433	983	1740	1070	789	359
12							413	1020	1730	1060	799	345
1.3							377	1020	1710	1110	850	341
14							379	930	1700	1180	880	333
15							393	853	1450	1080	919	326
13							373	033	1150	1000	212	320
16							396	802	1350	1100	890	330
17							365	995	1430	1220	708	326
18							365	1360	1440	1290	559	323
19							398	1440	1390	1180	510	322
20							396	1440	1420	960	483	318
21							361	1400	1510	891	457	315
22							377	1390	1470	880	472	317
23							366	1410	1460	890	515	376
24							354	2060	1460	866	520	391
25							361	2680	1450	859	515	369
23							301	2000	1430	037	313	305
26							341	2590	1490	858	504	358
27							349	2360	1520	868	513	362
28							407	2160	1360	852	494	359
29							557	2310	1270	871	513	351
30							607	e2990	1170	841	525	342
31								e3300		833	558	
moma r							11942	42602	E6220	20020	21271	10040
TOTAL								43693	56230	30929	21371	10949
MEAN							398	1409	1874	998	689	365
MAX							607	3300	3310	1290	919	546
MIN							341	557	1170	833	457	315
AC-FT							23690	86670	111500	61350	42390	21720

e Estimated.

07094500 ARKANSAS RIVER AT PARKDALE, CO--Continued

WATER-OUALITY RECORDS

PERIOD OF RECORD.--January 1981 to September 1982, November 1986 to September 1993. April 1996 to current year (seasonal records 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 records only).

INSTRUMENTATION. -- Water-temperature probe with satellite telemetry.

DTS-

CHARGE,

INST. CUBIC

REMARKS.--Records for daily water temperature are good except for Apr. 1 to May 24 and May 30, which are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: Maximum, 498 microsiemens, Aug. 6, 1990; minimum, 104 microsiemens, June 16-17, 1993. WATER TEMPERATURE: Maximum, 25.5°C, July 23, 1987; minimum, 0.0°C, on many days.

TEMPER-

MONTH

WATER TEMPERATURE (seasonal only): Maximum, 22.0°C, Aug. 29; minimum 3.2°C, Apr. 1.

CIFIC

CON-

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DTS-

CHARGE,

INST. CUBIC

SPE-

CIFIC

TEMPER-

CON-

DATE	TIME	CUBI FEI PEI SECO (0006	ET DUC R ANC OND (US/	T- AT E WA CM) (DE	PER- URE TER G C) 010)		D	ATE	TIME	CUBIC FEET PER SECOND (00061)	CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
MAY 10 10	1230 1350	1040 1050			14.5 15.4		JUL 07 AUG	-	1230	1020	181	20.5
26	1630	2600			13.5		11		1230	783	223	20.0
30 JUN	1230	3140			14.5		SEP 07		1630	385	289	17.6
07 19	1100 1030	2420 1370			14.3 15.6							
		TEMPERA	ATURE, WA	TER (DEG	. C), WA	TER YEAR	OCTOBER 19	99 TO S	EPTEMBEF	2000		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	0	CTOBER		N	OVEMBER		DE	CEMBER			JANUARY	
1												
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31												

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							9.1	3.2	5.9	13.9	8.8	11.2
2							9.5	4.8	7.0	16.5	10.6	13.5
3 4							8.4 13.0	5.3	7.0	18.0	12.3	15.2
5							14.5	6.1 9.0	9.4 11.6	19.4 19.2	14.1 14.7	16.7 17.0
6							14.6	9.4	11.9	16.9	14.1	15.4
7							13.3	9.2	11.0	16.8	13.7	15.2
8 9							13.0 15.2	7.7 8.9	10.5 12.0	14.8 15.2	10.9 9.8	12.8 12.6
10							14.4	10.2	11.7	17.2	12.1	14.6
11							10.7	7.9	9.5	16.9	13.2	15.1
12							14.0	6.7	10.2	14.8	11.6	13.1
13							15.2	9.5	12.3	13.6	10.2	11.9
14 15							15.7 12.2	10.4 8.7	13.0 9.8	14.4 16.7	10.8 11.4	12.8 14.1
16							1.4 0	7 2	10.0	15 /	10 7	12 0
16 17							14.8 16.2	7.2 9.7	10.9 12.7	15.4 13.7	12.7 11.7	13.8 12.7
18							15.9	10.9	13.3	12.4	10.2	11.2
19 20							11.9 14.6	9.1 8.0	10.5 11.2	12.7 13.8	9.6 10.9	11.2 12.4
21							14.0	9.8	12.1	15.9	11.7	14.0 15.1
22 23							14.1 13.7	10.4 10.8	11.8 12.0	17.3 18.9	12.8 14.3	16.7
24							17.1	10.7	13.6		15.1	
25							15.9	10.1	13.0			
26							17.2	10.2	13.7			
27							18.2	12.1	14.9			
28 29							17.1 16.4	12.5 12.8	14.9 14.7			
30							14.3	10.2	12.1	16.2	13.6	14.6
31										16.7	13.5	14.9
MONTH							18.2	3.2	11.5			
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX		MEAN	MAX		MEAN			MEAN	MAX		
		JUNE			JULY			AUGUST			SEPTEMBE	IR.
1	15.5	JUNE 12.9	14.3	19.7	JULY 16.8	18.5	20.9	AUGUST	19.2	19.2	SEPTEMBE	18.0
		JUNE			JULY			AUGUST 17.1 17.0			SEPTEMBE	18.0 17.6
1 2 3 4	15.5 15.2 15.5 15.9	JUNE 12.9 13.2 12.6 12.8	14.3 14.2 14.2 14.4	19.7 20.2 20.0 21.3	JULY 16.8 16.8 17.1 16.3	18.5 18.6 18.3 18.7	20.9 19.9 19.8 20.8	17.1 17.0 17.0 17.0	19.2 18.6 18.7 19.2	19.2 19.6 17.9 19.2	17.1 15.8 15.5 14.1	18.0 17.6 16.4 16.6
1 2 3	15.5 15.2 15.5	JUNE 12.9 13.2 12.6	14.3 14.2 14.2	19.7 20.2 20.0	JULY 16.8 16.8 17.1	18.5 18.6 18.3	20.9 19.9 19.8	AUGUST 17.1 17.0 17.0	19.2 18.6 18.7	19.2 19.6 17.9	17.1 15.8 15.5	18.0 17.6 16.4
1 2 3 4	15.5 15.2 15.5 15.9	JUNE 12.9 13.2 12.6 12.8	14.3 14.2 14.2 14.4	19.7 20.2 20.0 21.3	JULY 16.8 16.8 17.1 16.3	18.5 18.6 18.3 18.7	20.9 19.9 19.8 20.8	17.1 17.0 17.0 17.0	19.2 18.6 18.7 19.2	19.2 19.6 17.9 19.2	17.1 15.8 15.5 14.1	18.0 17.6 16.4 16.6
1 2 3 4 5	15.5 15.2 15.5 15.9 16.0	JUNE 12.9 13.2 12.6 12.8 13.1 13.0 13.1	14.3 14.2 14.2 14.4 14.6	19.7 20.2 20.0 21.3 21.0	JULY 16.8 16.8 17.1 16.3 16.4 17.3 18.3	18.5 18.6 18.3 18.7 18.8	20.9 19.9 19.8 20.8 21.1 21.4 21.3	AUGUST 17.1 17.0 17.0 17.4 17.8 17.5 17.7	19.2 18.6 18.7 19.2 19.4	19.2 19.6 17.9 19.2 21.0	17.1 15.8 15.5 14.1 16.0 16.4 14.9	18.0 17.6 16.4 16.6 18.4 18.2 16.7
1 2 3 4 5 6 7 8	15.5 15.2 15.5 15.9 16.0 17.0	JUNE 12.9 13.2 12.6 12.8 13.1 13.0 13.1 13.8	14.3 14.2 14.2 14.4 14.6	19.7 20.2 20.0 21.3 21.0 21.2 21.1 20.6	JULY 16.8 16.8 17.1 16.3 16.4 17.3 18.3 16.7	18.5 18.6 18.3 18.7 18.8	20.9 19.9 19.8 20.8 21.1 21.4 21.3 20.7	AUGUST 17.1 17.0 17.0 17.4 17.8 17.5 17.7 17.1	19.2 18.6 18.7 19.2 19.4 19.7 19.6	19.2 19.6 17.9 19.2 21.0 20.6 19.2 17.4	17.1 15.8 15.5 14.1 16.0 16.4 14.9 15.1	18.0 17.6 16.4 16.6 18.4 18.2 16.7
1 2 3 4 5	15.5 15.2 15.5 15.9 16.0	JUNE 12.9 13.2 12.6 12.8 13.1 13.0 13.1	14.3 14.2 14.2 14.4 14.6	19.7 20.2 20.0 21.3 21.0	JULY 16.8 16.8 17.1 16.3 16.4 17.3 18.3	18.5 18.6 18.3 18.7 18.8	20.9 19.9 19.8 20.8 21.1 21.4 21.3	AUGUST 17.1 17.0 17.0 17.4 17.8 17.5 17.7	19.2 18.6 18.7 19.2 19.4	19.2 19.6 17.9 19.2 21.0	17.1 15.8 15.5 14.1 16.0 16.4 14.9	18.0 17.6 16.4 16.6 18.4 18.2 16.7
1 2 3 4 5 6 7 8 9	15.5 15.2 15.5 15.9 16.0 17.0 17.7 17.0	JUNE 12.9 13.2 12.6 12.8 13.1 13.0 13.1 13.8 14.0 13.5	14.3 14.2 14.2 14.4 14.6 14.5 15.1 15.8 15.5	19.7 20.2 20.0 21.3 21.0 21.2 21.1 20.6 21.1 20.4	JULY 16.8 16.8 17.1 16.3 16.4 17.3 18.3 16.7 17.6 17.3	18.5 18.6 18.3 18.7 18.8 19.4 19.5 18.8 19.4	20.9 19.9 19.8 20.8 21.1 21.4 21.3 20.7 21.2 21.9	AUGUST 17.1 17.0 17.0 17.4 17.8 17.5 17.7 17.1 17.2 18.4	19.2 18.6 18.7 19.2 19.4 19.7 19.6 19.1 19.3 20.0	19.2 19.6 17.9 19.2 21.0 20.6 19.2 17.4 18.2	17.1 15.8 15.5 14.1 16.0 16.4 14.9 15.1 13.9	18.0 17.6 16.4 16.6 18.4 18.2 16.7 16.3 16.2
1 2 3 4 5 6 7 8 9	15.5 15.2 15.5 15.9 16.0 17.0 17.7 17.0	JUNE 12.9 13.2 12.6 12.8 13.1 13.0 13.1 13.8 14.0	14.3 14.2 14.2 14.4 14.6 14.5 15.1 15.8 15.5	19.7 20.2 20.0 21.3 21.0 21.2 21.1 20.6 21.1	JULY 16.8 16.8 17.1 16.3 16.4 17.3 18.3 16.7 17.6	18.5 18.6 18.3 18.7 18.8 19.4 19.5 18.8 19.4	20.9 19.9 19.8 20.8 21.1 21.4 21.3 20.7 21.2	AUGUST 17.1 17.0 17.0 17.4 17.8 17.5 17.7 17.1 17.2	19.2 18.6 18.7 19.2 19.4 19.7 19.6 19.1	19.2 19.6 17.9 19.2 21.0 20.6 19.2 17.4 18.2	17.1 15.8 15.5 14.1 16.0 16.4 14.9 15.1 13.9	18.0 17.6 16.4 16.6 18.4 18.2 16.7 16.3 16.2
1 2 3 4 5 6 7 8 9 10	15.5 15.2 15.5 16.0 16.0 17.0 17.7 17.0 16.4 15.7 16.3 16.8	JUNE 12.9 13.2 12.6 12.8 13.1 13.0 13.1 13.8 14.0 13.5	14.3 14.2 14.2 14.4 14.6 14.5 15.1 15.8 15.5 15.0	19.7 20.2 20.0 21.3 21.0 21.2 21.1 20.6 21.1 20.4 21.8	JULY 16.8 16.8 17.1 16.3 16.4 17.3 18.3 16.7 17.6 17.3	18.5 18.6 18.3 18.7 18.8 19.4 19.5 18.8 19.1 19.1	20.9 19.9 19.8 20.8 21.1 21.4 21.3 20.7 21.2 21.9	17.1 17.0 17.4 17.8 17.5 17.7 17.1 17.2 18.4 18.0 17.6	19.2 18.6 18.7 19.2 19.4 19.7 19.6 19.1 19.3 20.0	19.2 19.6 17.9 19.2 21.0 20.6 19.2 17.4 18.2 18.5	SEPTEMBE 17.1 15.8 15.5 14.1 16.0 16.4 14.9 15.1 13.9 14.4 15.0 14.9	18.0 17.6 16.6 18.4 18.2 16.7 16.3 16.2 16.6
1 2 3 4 5 6 7 8 9 10	15.5 15.2 15.5 15.9 16.0 17.0 17.7 17.0 16.4 15.7 16.8 17.6	JUNE 12.9 13.2 12.6 12.8 13.1 13.0 13.1 13.5 13.6 13.6 14.1	14.3 14.2 14.2 14.4 14.6 14.5 15.1 15.8 15.5 15.0 14.6 14.6 15.4	19.7 20.2 20.0 21.3 21.0 21.2 21.1 20.6 21.1 20.4 21.8 20.4 21.4 21.8	JULY 16.8 16.8 17.1 16.3 16.4 17.3 18.3 16.7 17.6 17.3	18.5 18.6 18.3 18.7 18.8 19.4 19.1 19.9 19.1 19.9 19.7 19.3	20.9 19.9 19.8 20.8 21.1 21.4 21.3 20.7 21.2 21.9 20.2 19.7 21.3 21.7	17.1 17.0 17.0 17.4 17.8 17.5 17.7 17.1 17.2 18.4 18.0 17.6 16.7 18.5	19.2 18.6 18.7 19.2 19.4 19.7 19.6 19.1 19.3 20.0 19.4 18.3 19.0	19.2 19.6 17.9 19.2 21.0 20.6 19.2 17.4 18.2 18.5	17.1 15.8 15.5 14.1 16.0 16.4 14.9 15.1 13.9 14.4 15.0 14.9 15.1 15.0	18.0 17.6 16.4 16.6 18.4 18.2 16.7 16.3 16.2 16.6
1 2 3 4 5 6 7 8 9 10	15.5 15.5 15.5 15.9 16.0 17.0 17.7 17.0 16.4 15.7 16.8 17.6 18.4	JUNE 12.9 13.2 12.6 12.8 13.1 13.0 13.1 13.0 13.5 14.0 13.5 14.1 14.4	14.3 14.2 14.2 14.4 14.6 14.5 15.1 15.8 15.5 15.0 14.6 14.6 15.4 15.9	19.7 20.2 20.0 21.3 21.0 21.2 21.1 20.6 21.1 20.4 21.8 20.4 21.4 21.8 21.5	JULY 16.8 16.8 17.1 16.3 16.4 17.3 18.7 17.6 17.3 18.0 18.9 17.4 15.9	18.5 18.6 18.3 18.7 18.8 19.4 19.1 19.9 19.7 19.3 19.2 20.0	20.9 19.9 19.8 20.8 21.1 21.4 21.3 20.7 21.2 21.9 20.2 19.7 21.3 21.7 21.4	17.1 17.0 17.0 17.4 17.8 17.5 17.7 17.1 17.2 18.4 18.0 17.6 16.7 18.5 17.9	19.2 18.6 18.7 19.2 19.4 19.7 19.6 19.1 19.3 20.0 19.4 18.3 19.0 19.9	19.2 19.6 17.9 19.2 21.0 20.6 19.2 17.4 18.2 18.5 19.2 18.8 19.4 19.2	17.1 15.8 15.5 14.1 16.0 16.4 14.9 15.1 13.9 14.4 15.0 14.9 15.4 15.2	18.0 17.6 16.4 16.6 18.4 18.2 16.7 16.3 16.2 16.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	15.5 15.5 15.5 15.9 16.0 17.0 17.7 17.0 16.4 15.7 16.3 16.8 17.6 18.4	JUNE 12.9 13.2 12.6 12.8 13.1 13.0 13.1 13.8 14.0 13.5	14.3 14.2 14.2 14.4 14.6 14.5 15.1 15.8 15.5 15.0 14.6 15.9 16.4	19.7 20.2 20.0 21.3 21.0 21.2 21.1 20.6 21.1 20.4 21.8 20.4 21.8 21.5	JULY 16.8 16.8 17.1 16.3 16.4 17.3 18.3 16.7 17.6 17.3 18.0 18.9 17.4 15.9 17.8	18.5 18.6 18.3 18.7 18.8 19.4 19.1 19.9 19.7 19.3 19.2 20.0	20.9 19.9 19.8 20.8 21.1 21.4 21.3 20.7 21.2 21.9 20.2 19.7 21.3 21.7 21.4	17.1 17.0 17.0 17.4 17.8 17.5 17.7 17.1 17.2 18.4 18.0 17.6 16.7 18.5 17.9	19.2 18.6 18.7 19.2 19.4 19.7 19.6 19.1 19.3 20.0 19.4 18.3 19.0 19.9 19.7	19.2 19.6 17.9 19.2 21.0 20.6 19.2 17.4 18.2 18.5 19.2 18.8 19.4 19.2 19.3	17.1 15.8 15.5 14.1 16.0 16.4 14.9 15.1 13.9 14.4 15.0 14.9 15.1 15.0 14.6 15.4 15.2	18.0 17.6 16.4 16.6 18.4 18.2 16.7 16.3 16.2 17.1 17.0 17.2 17.4 17.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	15.5 15.2 15.5 15.9 16.0 17.0 17.7 17.0 16.4 15.3 16.8 17.6 18.4	JUNE 12.9 13.2 12.6 12.8 13.1 13.0 13.1 13.8 14.0 13.5 13.3 12.6 13.6 14.1 14.4	14.3 14.2 14.2 14.4 14.6 15.5 15.0 14.6 14.6 15.4 15.9 16.9	19.7 20.2 20.0 21.3 21.0 21.2 21.1 20.6 21.1 20.4 21.8 20.4 21.4 21.8 21.5	JULY 16.8 16.8 17.1 16.3 16.4 17.3 18.3 16.7 17.6 17.3 18.0 18.9 17.4 15.9 17.8 18.1 18.4	18.5 18.6 18.3 18.7 18.8 19.4 19.5 18.8 19.4 19.1 19.9 19.7 19.3 19.2 20.0	20.9 19.9 19.8 20.8 21.1 21.4 21.3 20.7 21.2 21.9 20.2 19.7 21.3 21.7 21.4 19.4 20.7	AUGUST 17.1 17.0 17.4 17.8 17.5 17.7 17.1 17.2 18.4 18.0 17.6 16.7 18.5 17.9 17.5 17.7	19.2 18.6 18.7 19.2 19.4 19.7 19.3 20.0 19.4 18.3 19.0 19.9 19.7	19.2 19.6 17.9 19.2 21.0 20.6 19.2 17.4 18.2 18.5 19.2 18.8 19.4 19.2	SEPTEMBE 17.1 15.8 15.5 14.1 16.0 16.4 14.9 15.1 13.9 14.4 15.0 14.9 14.6 15.4 15.2	18.0 17.6 16.4 16.6 18.4 18.2 16.7 16.3 16.2 17.1 17.0 17.2 17.4 17.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	15.5 15.2 15.5 15.9 16.0 17.0 17.7 17.0 16.4 15.7 16.3 16.8 17.6 18.4	JUNE 12.9 13.2 12.6 12.8 13.1 13.0 13.1 13.8 14.0 13.5 13.6 13.6 14.4 14.4 13.2 13.8 14.4	14.3 14.2 14.2 14.4 14.5 15.1 15.8 15.5 15.0 14.6 15.9 16.4 15.8 14.5 14.5 14.5	19.7 20.2 20.0 21.3 21.0 21.1 20.6 21.1 20.4 21.8 20.4 21.4 21.4 21.5	JULY 16.8 16.8 17.1 16.3 16.4 17.3 18.3 16.7 17.6 17.3 18.9 17.4 15.9 17.8 18.1 18.4 17.7	18.5 18.6 18.3 18.7 18.8 19.4 19.5 18.8 19.4 19.1 19.9 19.7 19.3 19.2 20.0	20.9 19.9 19.8 20.8 21.1 21.4 21.3 20.7 21.2 21.9 20.2 19.7 21.3 21.7 21.4 19.4 20.7 20.6 21.1	AUGUST 17.1 17.0 17.0 17.4 17.8 17.5 17.7 17.1 17.2 18.4 18.0 17.6 16.7 17.9 17.5 17.7 17.1 17.2	19.2 18.6 18.7 19.2 19.4 19.7 19.6 19.1 19.3 20.0 19.4 18.3 19.0 19.7 18.6 19.1 19.5	19.2 19.6 17.9 19.2 21.0 20.6 19.2 17.4 18.2 18.5 19.2 18.8 19.4 19.3	17.1 15.8 15.5 14.1 16.0 16.4 14.9 15.1 13.9 14.4 15.0 14.9 15.1 15.0 14.6 15.4 15.2	18.0 17.6 16.4 16.6 18.4 18.2 16.7 16.3 16.2 17.1 17.0 17.2 17.4 17.4 17.8 17.6 17.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	15.5 15.5 15.5 15.9 16.0 17.0 17.7 17.0 16.4 15.7 16.8 17.6 18.4 17.3 15.9	JUNE 12.9 13.2 12.6 12.8 13.1 13.0 13.1 13.5 13.3 14.0 13.5 13.4 14.4 14.4 14.4 13.2 13.8	14.3 14.2 14.2 14.4 14.6 14.5 15.1 15.8 15.5 15.0 14.6 14.6 14.6 14.6 14.6 14.6 14.6 14.6	19.7 20.2 20.0 21.3 21.0 21.2 21.1 20.6 21.1 20.4 21.8 21.4 21.8 21.5	JULY 16.8 16.8 17.1 16.3 17.1 16.3 16.4 17.3 18.7 17.6 17.3 18.0 18.9 17.4 15.9 17.8 18.1 18.4 17.6	18.5 18.6 18.3 18.7 18.8 19.4 19.1 19.9 19.7 19.3 19.2 20.0 19.4 19.3	20.9 19.9 19.8 20.8 21.1 21.4 21.3 20.7 21.2 21.9 20.2 19.7 21.3 21.7 21.4 19.4 20.7 20.7	AUGUST 17.1 17.0 17.4 17.8 17.5 17.7 17.1 17.2 18.4 18.0 17.6 16.7 18.5 17.9 17.5 17.7 17.1	19.2 18.6 18.7 19.2 19.4 19.7 19.6 19.1 19.3 20.0 19.4 18.3 19.0 19.9 19.7	19.2 19.6 17.9 19.2 21.0 20.6 19.2 17.4 18.2 18.5 19.2 18.8 19.4 19.2 19.3	17.1 15.8 15.5 14.1 16.0 16.4 14.9 15.1 13.9 14.4 15.0 14.6 15.4 15.2	18.0 17.6 16.4 16.6 18.4 18.2 16.7 16.3 16.2 16.6 17.1 17.0 17.2 17.4 17.4 17.8 17.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	15.5 15.2 15.5 15.9 16.0 17.0 17.7 17.0 16.4 15.7 16.3 16.8 17.6 18.4	JUNE 12.9 13.2 12.6 12.8 13.1 13.0 13.1 13.8 14.0 13.5 13.3 12.6 14.1 14.4 14.4 13.2 13.8 14.4 15.3	14.3 14.2 14.2 14.4 14.5 15.1 15.8 15.5 15.0 14.6 15.9 16.4 15.8 14.5 14.5 14.5	19.7 20.2 20.0 21.3 21.0 21.1 20.6 21.1 20.4 21.8 20.4 21.4 21.4 21.5	JULY 16.8 16.8 17.1 16.3 16.4 17.3 18.7 17.6 17.3 18.0 18.9 17.4 15.9 17.8 18.1 18.4 17.6 17.7	18.5 18.6 18.3 18.7 18.8 19.4 19.5 18.8 19.4 19.1 19.9 19.7 19.3 19.2 20.0	20.9 19.9 19.8 20.8 21.1 21.4 21.3 20.7 21.2 21.9 20.2 19.7 21.3 21.7 21.4 19.4 20.7 20.6 21.1	AUGUST 17.1 17.0 17.0 17.4 17.8 17.5 17.7 17.1 17.2 18.4 18.0 17.6 16.7 17.9 17.5 17.7 17.1 17.2	19.2 18.6 18.7 19.2 19.4 19.7 19.6 19.1 19.3 20.0 19.4 18.3 19.0 19.7 18.6 19.1 19.5	19.2 19.6 17.9 19.2 21.0 20.6 19.2 17.4 18.2 18.5 19.2 18.8 19.4 19.3	SEPTEMBE 17.1 15.8 15.5 14.1 16.0 16.4 14.9 15.1 13.9 14.4 15.0 14.9 14.6 15.4 15.5 16.5 16.4	18.0 17.6 16.4 16.6 18.4 18.2 16.7 16.3 16.2 17.1 17.0 17.2 17.4 17.4 17.8 17.6 17.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	15.5 15.2 15.5 15.9 16.0 17.0 17.7 17.0 16.4 15.7 16.3 16.8 17.6 18.4 17.3 15.9 17.9 17.9 18.1	JUNE 12.9 13.2 12.6 12.8 13.1 13.0 13.1 13.8 14.0 13.5 13.6 14.1 14.4 14.4 13.2 13.8 14.4 15.6	14.3 14.2 14.2 14.4 14.6 15.5 15.5 15.0 14.6 15.4 15.9 16.4 15.9 16.6 17.3	19.7 20.2 20.0 21.3 21.0 21.2 21.1 20.6 21.1 20.4 21.8 20.4 21.4 21.8 21.5 19.8 20.6 20.9 21.1 21.9	JULY 16.8 16.8 17.1 16.3 16.4 17.3 18.3 16.7 17.6 17.3 18.0 17.4 15.9 17.4 15.9 17.4 15.9 17.8 18.1 18.1 18.4 17.6 17.7 18.7	18.5 18.6 18.3 18.7 18.8 19.4 19.1 19.9 19.7 19.3 19.2 20.0 19.0 19.4 19.3 19.4 20.1	20.9 19.9 19.8 20.8 21.1 21.4 21.3 20.7 21.2 21.9 20.2 19.7 21.3 21.7 21.4 19.4 20.7 20.6 21.1 21.8	AUGUST 17.1 17.0 17.4 17.8 17.5 17.7 17.1 17.2 18.4 18.0 17.6 16.7 18.5 17.7 17.8 17.7 17.8 17.7 17.8 17.7 17.8	19.2 18.6 18.7 19.2 19.4 19.7 19.3 20.0 19.4 18.3 19.0 19.9 19.7 18.6 19.1 19.3 19.5 19.6	19.2 19.6 17.9 19.2 21.0 20.6 19.2 17.4 18.2 18.5 19.2 19.3 19.4 19.2 19.3 19.8 19.4 19.2	17.1 15.8 15.5 14.1 16.0 16.4 14.9 15.1 13.9 14.6 15.4 15.2 15.4 15.5 16.2 14.9	18.0 17.6 16.4 16.6 18.4 18.2 16.7 16.3 16.2 16.6 17.1 17.0 17.2 17.4 17.4 17.8 17.6 17.3 16.7 3
1 2 3 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	15.5 15.5 15.5 15.9 16.0 17.0 17.7 17.0 16.4 15.7 16.8 17.6 18.4 17.6 18.1 18.1 18.1 18.1	JUNE 12.9 13.2 12.6 12.8 13.1 13.0 13.1 13.5 13.3 14.0 13.5 13.3 12.6 14.1 14.4 14.4 15.3 14.8 14.4 15.3	14.3 14.2 14.2 14.4 14.6 14.5 15.1 15.8 15.5 15.0 14.6 14.6 14.5 15.4 15.9 16.4 15.9 16.7	19.7 20.2 20.0 21.3 21.0 21.2 21.1 20.6 21.1 20.4 21.8 21.4 21.8 21.5 19.8 20.6 21.1 21.9 21.1 21.9	JULY 16.8 16.8 17.1 16.3 17.1 16.3 16.4 17.3 18.0 17.6 17.3 18.0 18.9 17.4 15.9 17.8 18.1 18.4 17.7 18.7	18.5 18.6 18.3 18.7 18.8 19.4 19.1 19.9 19.7 19.3 19.2 20.0 19.0 19.4 19.3 19.4 20.1	20.9 19.9 19.8 20.8 21.1 21.4 21.3 20.7 21.2 21.9 20.2 19.7 21.3 21.7 21.4 19.4 20.7 20.6 21.1 21.8	AUGUST 17.1 17.0 17.4 17.8 17.5 17.7 17.1 17.2 18.4 18.0 17.6 16.7 18.5 17.9 17.5 17.7 17.8 17.7 17.7	19.2 18.6 18.7 19.2 19.4 19.7 19.6 19.1 19.3 20.0 19.4 18.3 19.0 19.9 19.7 18.6 19.1 19.3 19.5 19.6	19.2 19.6 17.9 19.2 21.0 20.6 19.2 17.4 18.2 18.5 19.2 18.8 19.4 19.2 19.3 19.8 19.2 16.8	17.1 15.8 15.5 14.1 16.0 16.4 14.9 15.1 13.9 14.4 15.0 14.9 15.4 15.2 15.4 15.2 14.5 16.2	18.0 17.6 16.4 16.6 18.4 18.2 16.7 16.3 16.2 16.6 17.1 17.0 17.2 17.4 17.4 17.8 17.6 17.3 16.7 14.3
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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	15.5 15.2 15.5 15.9 16.0 17.0 17.7 17.0 16.4 15.7 16.3 16.8 17.6 18.4 17.3 15.9 17.9 15.9 17.9 17.9 18.1	JUNE 12.9 13.2 12.6 12.8 13.1 13.0 13.1 13.8 14.0 13.5 13.3 12.6 13.6 14.1 14.4 14.4 15.3 14.8 15.6 16.0 14.5 15.5	14.3 14.2 14.2 14.4 14.6 15.5 15.0 14.6 15.9 16.4 15.8 14.5 14.5 14.7 16.6 17.3 17.0 16.1 16.9	19.7 20.2 20.0 21.3 21.0 21.1 20.6 21.1 20.4 21.8 20.4 21.8 21.5 19.8 20.6 20.9 21.1 21.9 21.1 21.9	JULY 16.8 16.8 17.1 16.3 16.4 17.3 18.3 16.7 17.6 17.3 18.9 17.4 17.5 18.1 18.4 17.7 18.7 18.1 18.2	18.5 18.6 18.3 18.7 18.8 19.4 19.5 18.8 19.4 19.7 19.3 19.2 20.0 19.4 19.3 19.4 20.1 19.6 19.7 18.8	20.9 19.9 19.8 20.8 21.1 21.4 21.3 20.7 21.2 21.9 20.2 19.7 21.3 21.7 21.4 20.7 21.8 20.6 21.1 21.8 20.8 21.1	AUGUST 17.1 17.0 17.4 17.8 17.5 17.7 17.1 17.2 18.4 18.0 17.6 16.7 18.5 17.9 17.5 17.7 17.8 17.7 17.8 17.7 16.8 17.7	19.2 18.6 18.7 19.2 19.4 19.7 19.6 19.1 19.3 19.0 19.9 19.7 18.6 19.1 19.3 19.5 19.6 19.1 19.3 18.6 19.3	19.2 19.6 17.9 19.2 21.0 20.6 19.2 17.4 18.2 18.5 19.2 18.8 19.4 19.2 19.3 19.8 19.2 19.3 19.8 19.2	SEPTEMBE 17.1 15.8 15.5 14.1 16.0 16.4 14.9 15.1 13.9 14.4 15.0 14.9 14.6 15.2 15.4 15.5 16.2 14.5 12.4 10.9 13.1 9.6 8.0 9.6	18.0 17.6 16.4 16.6 18.4 18.2 16.7 16.3 16.2 17.1 17.0 17.2 17.4 17.4 17.8 17.6 17.3 16.7 14.3 13.2 14.3 11.8 9.2 11.7
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1 2 3 4 5 5 6 6 7 8 8 9 10 11 12 13 14 15 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	15.5 15.2 15.5 15.9 16.0 17.7 17.0 16.3 16.8 17.6 18.4 17.3 15.9 17.6 18.1 18.3 19.0 18.2 17.4 18.1 17.5 17.3 18.1	JUNE 12.9 13.2 12.6 12.8 13.1 13.0 13.1 13.8 14.0 13.5 13.6 13.6 13.6 14.1 14.4 14.4 15.3 14.8 15.6 16.0 14.5 15.5	14.3 14.2 14.2 14.4 14.6 15.5 15.1 15.8 15.5 15.0 14.6 15.4 15.9 16.4 15.8 14.5 14.8 16.7 16.6 17.3 17.0 16.1 16.9	19.7 20.2 21.3 21.0 21.3 21.1 20.6 21.1 20.4 21.8 20.4 21.4 21.8 21.5 19.8 20.6 20.9 21.1 21.7 21.1 21.7 21.4 19.8 20.5	JULY 16.8 16.8 17.1 16.3 16.4 17.3 18.3 16.7 17.6 17.3 18.0 18.9 17.4 15.9 17.4 15.9 17.8 18.1 18.4 17.6 18.7 18.1 18.2 18.1 18.6 17.7 16.8	18.5 18.6 18.3 18.7 18.8 19.4 19.5 18.8 19.4 19.7 19.3 19.2 20.0 19.0 19.0 19.8 19.3 19.4 19.3 19.4 19.3 19.4 19.5 19.6 19.8 19.7 19.8 19.7 19.8 19.7 19.8 19.7 19.8	20.9 19.9 19.8 20.8 21.1 21.4 21.3 20.7 21.2 21.9 20.2 19.7 21.3 21.7 21.4 19.4 20.7 20.6 21.1 21.8 20.8 21.9 21.2 21.1 21.8	AUGUST 17.1 17.0 17.4 17.8 17.5 17.7 17.1 17.2 18.4 18.0 17.5 17.7 17.7 17.7 17.7 16.4 17.5 16.9 17.5 17.7 17.7 17.7 16.4 17.5 16.9 17.2	19.2 18.6 18.7 19.2 19.4 19.7 19.6 19.1 19.3 20.0 19.4 18.3 19.0 19.9 19.7 18.6 19.1 19.3 19.5 19.6 19.1 19.3 19.5 19.5 19.6 19.1 19.3 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	19.2 19.6 17.9 19.2 21.0 20.6 19.2 17.4 18.2 18.5 19.2 18.8 19.4 19.2 19.3 19.8 19.2 18.9 16.8	17.1 15.8 15.5 14.1 16.0 16.4 14.9 15.1 13.9 14.6 15.2 15.4 15.5 16.2 14.5 16.9 17.4 18.5 19.6 19.6 19.6 19.6 19.6 19.6	18.0 17.6 16.4 16.6 18.4 18.2 16.7 16.3 16.2 16.6 17.1 17.0 17.2 17.4 17.4 17.4 17.4 17.3 16.7 14.3 11.8 9.2 11.7
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 13 14 15 16 17 18 19 20 21 22 22 24 25 26 27 28	15.5 15.2 15.5 15.9 16.0 17.0 17.7 17.0 16.4 15.7 16.3 16.8 17.6 18.4 17.3 15.9 17.9 17.9 17.9 17.9 17.9 17.9 17.9 17	JUNE 12.9 13.2 12.6 12.8 13.1 13.0 13.1 13.8 14.0 13.5 13.3 12.6 13.6 14.1 14.4 15.3 14.8 15.6 16.0 14.5 15.5	14.3 14.2 14.2 14.4 14.5 15.5 15.0 14.6 15.9 16.4 15.8 14.5 14.5 14.5 14.6 15.9 16.7 16.6 17.3 17.0 16.1 16.9	19.7 20.2 21.0 21.3 21.0 21.1 20.6 21.1 20.4 21.8 20.4 21.4 21.8 21.5 19.8 20.6 20.9 21.1 21.9 21.1 21.7 21.4 19.8 20.5	JULY 16.8 16.8 17.1 16.3 16.4 17.3 18.3 16.7 17.6 17.3 18.0 18.9 17.4 15.9 17.8 18.1 18.4 17.6 17.7 18.7	18.5 18.6 18.3 18.7 18.8 19.4 19.5 18.8 19.4 19.1 19.9 19.7 19.3 19.2 20.0 19.4 19.3 19.4 19.5 19.7 19.3 19.5 19.7 19.7 19.3 19.4 19.5 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.3 19.4 19.5 19.6 19.7	20.9 19.9 19.8 20.8 21.1 21.4 21.3 20.7 21.2 21.9 20.2 19.7 21.3 21.3 21.3 21.3 21.3 21.3 21.3 21.3	AUGUST 17.1 17.0 17.0 17.4 17.8 17.5 17.7 17.1 17.2 18.4 18.0 17.6 16.7 17.7 17.7 17.7 17.7 17.7 17.7	19.2 18.6 18.7 19.2 19.4 19.7 19.6 19.1 19.3 20.0 19.4 18.3 19.0 19.7 18.6 19.1 19.5 19.5 19.5 19.6	19.2 19.6 17.9 19.2 21.0 20.6 19.2 17.4 18.2 18.5 19.2 18.8 19.4 19.3 19.8 19.2 18.9 19.3 19.8 19.2 18.9 19.3	SEPTEMBE 17.1 15.8 15.5 14.1 16.0 16.4 14.9 15.1 13.9 14.4 15.0 14.9 14.6 15.4 15.5 16.2 15.4 15.5 16.2 19.6 8.0 9.6 10.2 11.1	18.0 17.6 16.4 16.6 18.4 18.2 16.7 16.3 16.2 16.6 17.1 17.0 17.2 17.4 17.4 17.4 17.8 17.6 17.3 16.7 14.3 11.8 9.2 11.7
1 2 3 4 5 5 6 6 7 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	15.5 15.2 15.5 15.9 16.0 17.7 17.0 16.3 16.8 17.6 18.4 17.3 15.9 17.6 18.1 18.3 19.0 18.2 17.4 18.1 17.5 17.3 18.1	JUNE 12.9 13.2 12.6 12.8 13.1 13.0 13.1 13.8 14.0 13.5 13.3 12.6 13.6 14.1 14.4 15.3 14.8 14.4 15.3 14.8 15.6 16.0 14.5 15.8	14.3 14.2 14.2 14.4 14.6 14.5 15.5 15.0 14.6 14.6 15.4 15.9 16.4 15.9 16.4 15.9 16.6 17.3 17.0 16.6 17.3 17.0 16.9 17.8 16.9 17.8	19.7 20.2 20.0 21.3 21.0 21.2 21.1 20.6 21.1 20.4 21.8 21.5 19.8 20.6 20.9 21.1 21.9 21.1 21.7 21.4 19.8 20.5	JULY 16.8 16.8 17.1 16.3 16.4 17.3 18.3 18.7 17.6 17.3 18.0 18.9 17.4 15.9 17.8 18.1 17.6 17.7 18.7 18.1 17.6 17.7 18.1 17.7 18.1 17.7 16.8 17.6 17.7 18.1 17.7 18.1 17.7 16.1	18.5 18.6 18.3 18.7 18.8 19.4 19.1 19.9 19.7 19.3 19.2 20.0 19.0 19.4 20.1 19.8 19.7 18.8 19.4 20.1 19.5 19.5 19.6 19.8 19.7 19.8 19.7 19.8 19.7 19.8 19.7 19.8 19.7 19.8 19.7 19.8 19.7 19.8	20.9 19.9 19.8 20.8 21.1 21.4 21.3 20.7 21.2 21.9 20.2 19.7 21.3 21.7 21.4 20.8 21.1 21.8 20.8 21.1 21.6 21.1 21.8	AUGUST 17.1 17.0 17.4 17.8 17.5 17.7 17.1 17.2 18.4 18.0 17.6 16.7 18.5 17.9 17.5 17.7 17.8 17.7 17.8 17.7 17.8 17.7 17.8 17.7 17.8 17.7 17.8 17.7 17.8 17.7 17.8 17.7 17.5 16.9 16.9 16.5 17.5 18.1	19.2 18.6 18.7 19.2 19.4 19.7 19.3 20.0 19.4 18.3 19.0 19.9 19.7 18.6 19.1 19.3 19.5 19.5	19.2 19.6 17.9 19.2 21.0 20.6 19.2 17.4 18.2 18.5 19.2 18.8 19.4 19.2 19.3 19.8 19.2 18.9 16.8	17.1 15.8 15.5 14.1 16.0 16.4 14.9 15.1 13.9 14.6 15.2 15.4 15.5 16.2 14.5 16.9 17.4 18.5 19.6 19.6 19.6 19.6 19.6 19.6	18.0 17.6 16.4 16.6 18.4 18.2 16.7 16.3 16.2 16.7 17.1 17.0 17.2 17.4 17.4 17.4 17.4 17.3 16.7 14.3 13.2 14.3 11.8 9.2 11.7

07096000 ARKANSAS RIVER AT CANON CITY, CO

LOCATION.--Lat $38^\circ 26^\circ 02^*$, long $105^\circ 15^\circ 24^*$, in $\mathrm{SE}^1/_4\mathrm{SE}^1/_4$ sec. 31, T.18 S., R.70 W.(revised), 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.--No estimated daily discharges. Records good. 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.

		DISCHA	RGE, CUBI	C FEET PER		WATER Y	EAR OCTOBER	R 1999 TO	SEPTEMBI	ER 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	466	400	361	459	448	443	417	555	2970	845	634	404
2	461	401	387	459	438	451	400	478	2790	818	645	326
3	451	391	400	451	436	458	417	474	2700	800	656	286
4	462	393	394	418	442	452	407	558	2710	801	652	268
5	431	409	353	450	433	452	444	651	2620	769	656	262
6	415	411	355	472	437	457	553	814	2560	752	649	257
7	412	441	397	432	428	437	520	915	2360	817	640	258
8	403	426	411	451	430	439	464	961	2180	849	630	254
9	416	428	407	467	429	419	417	970	1960	868	648	247
10	415	427	404	453	432	420	399	859	1860	897	664	245
11	418	412	404	482	442	411	444	868	1640	870	599	233
12	402	389	404	454	435	414	420	901	1590	853	599	225
13	398	375	399	452	424	412	375	903	1570	891	650	213
14	400	384	410	443	426	409	374	822	1570	1020	682	209
15	401	414	366	438	430	411	375	749	1290	890	698	206
16	401	382	359	444	434	430	381	727	1150	899	731	208
17	421	345	391	450	435	425	350	834	1240	1030	554	208
18	420	385	415	455	445	436	347	1190	1290	1110	434	202
19	458	393	451	458	430	421	377	1290	1220	1010	388	207
20	458	349	480	458	423	424	353	1260	1250	787	366	206
21	436	357	450	444	428	468	327	1210	1370	707	339	207
22	422	371	450	444	431	452	345	1190	1330	694	340	209
23	418	374	437	435	444	456	342	1220	1310	701	364	250
24	421	344	459	424	446	494	328	1830	1310	679	369	287
25	414	324	473	435	449	513	327	2430	1290	671	369	273
26 27 28 29 30 31	414 397 395 393 410 394	344 376 378 369 361	492 485 477 473 473 461	445 462 450 405 408 409	421 433 443 449 	534 544 514 517 483 455	307 263 302 467 537	2350 2180 2010 2090 2580 2920	1350 1410 1200 1080 986	671 674 663 675 650 643	358 367 353 368 386 405	262 258 256 252 242
TOTAL	13023	11553	13078	13807	12621	14051	11779	38789	51156	25004	16193	7420
MEAN	420	385	422	445	435	453	393	1251	1705	807	522	247
MAX	466	441	492	482	449	544	553	2920	2970	1110	731	404
MIN	393	324	353	405	421	409	263	474	986	643	339	202
AC-FT	25830	22920	25940	27390	25030	27870	23360	76940	101500	49600	32120	14720
STATIST MEAN	rics of M 374	ONTHLY MEA	AN DATA F 370	OR WATER 1	7EARS 1889 345	354	, BY WATER 426	YEAR (WY	2292	1481	857	451
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	ICS	FOR	1999 CALEN	NDAR YEAR	1	FOR 2000 W	ATER YEAR		WATER YE	ARS 1889	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC	MEAN TANNUAL MANNUAL MODAILY ME SEVEN-DATANEOUS P	EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		295956 811 3510 211 239 587000 1550 540 341	Jun 25 Apr 11 Apr 11		228474 624 2970 202 206 3120 8.69 453200 1220 440 336	Jun 1 Sep 18 Sep 15 May 31 May 31		735 1299 329 9480 69 87 a19000 b,c10.70 532200 1720 418 240	May : Apr Aug	1995 1977 29 1957 13 1959 9 1940 2 1921 2 1921

a Site and datum then in use, from rating curve extended above 5000 ${\rm ft}^3/{\rm s.}$ 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. Records for water temperature are good. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR CURRENT YEAR AND FOR PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: Maximum, 739 microsiemens, Aug. 16, 2000; minimum, 94 microsiemens, June 9, 1996. WATER TEMPERATURE: Maximum, 22.6°C, July 20, 2000; minimum, 0.0°C, many days.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	VEMBER		DE	CEMBER			JANUARY	
1 2 3 4 5	299 307 312 317 321	291 293 301 309 312	295 299 306 313 316	336 332 333 333 333	330 324 324 326 324	333 328 329 330 329	321 323 321 320 327	316 316 314 312 314	318 320 317 316 318	278 276 275 284 289	267 268 264 268 260	272 272 269 273 276
6 7 8 9 10	321 325 332 332 332 332	312 316 324 326 324	317 320 327 329 329	335 333 332 333 333	321 323 325 327 326	326 327 328 330 330	330 326 323 324	321 315 314 313	324 320 319 318	286 275 273	262 260 264	273 264 267
11 12 13 14 15	332 331 332 333 333	323 323 324 325 326	327 327 329 330 329	332 334 336 337 338	325 329 327 328 329	328 331 331 332 334	324 	317 	321 	269 269 269 272 275	261 259 262 260 265	266 265 264 265 270
16 17 18 19 20	331 329 329 329 327	321 322 324 325 321	325 325 327 327 324	339 334 337 334 341	325 324 326 322 323	331 329 331 327 329	338 334 315 	320 317 310 	327 322 313 	275 275 270 271 270	266 270 266 267 263	271 272 269 269 266
21 22 23 24 25	330 334 335 335 333	323 328 328 328 328	326 330 331 331 329	346 349 329 328 336	330 326 316 310 323	337 334 324 318 327	 	 	 	272 273 274 275 276	262 268 266 264 266	267 271 270 269 271
26 27 28 29 30 31	331 332 335 340 340 336	325 324 326 332 332 327	329 329 330 336 336 331	336 336 324 317 318	326 324 315 311 312	331 329 319 314 315	276 275 273 272 272 274	260 258 263 262 261 264	268 266 268 266 267 269	275 270 270 274 284 278	263 262 262 259 259 264	268 265 266 266 265 269
MONTH	340	291	324	349	310	328						

ARKANSAS RIVER BASIN

07096000 ARKANSAS RIVER AT CANON CITY, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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,	SPECIFIC	CONDUCTA	INCE (MIC	KOSTEMENS/	CM AI Z	DEG. C),	WAIER IEF	ar octor	EK IJJJ	IO SEPIEME	DER 2000	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	275	262	269	279	273	276	337	306	319	269	249	258
2	267 272	258 263	261 266	277 280	274 275	275 277	345 346	337 339	340 342	263 258	251 248	259 253
4	272	263	268	284	275	279	354	346	351	252	237	244
5	272	260	266	285	280	282	369	350	358	239	219	229
6	273	265	269	282	276	279	370	356	363	220	203	210
7 8	273 273	262 262	268 267	282 283	275 277	278 280	364 352	347 345	356 349	211 195	189 187	200 190
9	273	268	271	283	277	280	349	343	347	200	190	195
10	273	268	271	283	281	282	352	344	348	202	193	199
11	273	268	271	283	279	282	349	337	341	195	186	190
12 13	275 275	269 268	272 271	283 283	274 277	279 280	347 351	339 342	342 348	191 182	182 178	186 180
14	273	269	271	282	273	278	358	345	354	205	178	195
15	273	267	271	282	268	277	357	345	352	222	188	199
16 17	275 272	268	270 270	281 288	269 277	274 281	349 352	345 347	347 349	226 224	216 206	222 219
18	272	268 267	269	291	285	289	356	351	353	206	186	193
19	271	260	266	288	281	285	358	342	349	187	164	180
20	275	264	267	286	282	284	342	317	331	165	152	157
21	274 275	264	269 269	283 283	270 269	276 274	340	317 337	332 339	171 152	150 149	162
22 23	275	266 267	209	297	279	283	341 341	335	337	156	149	151 151
24	289	270	276	301	290	296	342	335	338	150	129	143
25	286	270	276	309	296	302	342	335	339	130	123	127
26	296	268	275 277	309	302	306 305	340	332	337 329	125 138	122	124
27 28	292 290	266 270	277	311 304	301 298	305	341 334	323 315	329	141	121 127	127 136
29	283	272	276	307	298	301	325	283	304	128	121	126
30 31				306 307	295 299	299 302	283	263	274	121 116	113 108	119 113
							0.50		0.40			
MONTH	296	258	270	311	268	285	370	263	340	269	108	182
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN		MIN	MEAN		MIN SEPTEMBE	
		JUNE		MAX			I	AUGUST			SEPTEMBE	R
1 2	109 116	JUNE 106 106	108 112		JULY		197 197	AUGUST 193 190	195 194	267 277	SEPTEMBE 259 267	263 270
1 2 3	109 116 116	JUNE 106 106 111	108 112 113	 	JULY 	 	197 197 190	193 190 187	195 194 189	267 277 296	SEPTEMBE 259 267 277	263 270 286
1 2	109 116	JUNE 106 106	108 112		JULY		197 197	AUGUST 193 190	195 194	267 277	SEPTEMBE 259 267	263 270
1 2 3 4 5	109 116 116 125 115	JUNE 106 106 111 110 110	108 112 113 118 113	 184	JULY 181	 182	197 197 190 192 192	193 190 187 188 189	195 194 189 190 191	267 277 296 306 307	259 267 277 295 303	263 270 286 300 305
1 2 3 4 5	109 116 116 125 115	JUNE 106 106 111 110 110 112 113	108 112 113 118 113 114 116	 184 184	JULY 181 177 171	 182 180 174	197 197 190 192 192 191	193 190 187 188 189	195 194 189 190 191	267 277 296 306 307	259 267 277 295 303 302 304	263 270 286 300 305 306 308
1 2 3 4 5 6 7 8	109 116 116 125 115 116 119 122	JUNE 106 106 111 110 110 112 113 114	108 112 113 118 113 114 116 118	 184 184 182	JULY 181 177 171 169	 182 180 174 173	197 197 190 192 192 191 193 192	193 190 187 188 189 188	195 194 189 190 191 189 191 190	267 277 296 306 307 309 312 308	259 267 277 295 303 302 304 305	263 270 286 300 305 306 308 307
1 2 3 4 5	109 116 116 125 115	JUNE 106 106 111 110 110 112 113	108 112 113 118 113 114 116	 184 184	JULY 181 177 171	 182 180 174	197 197 190 192 192 191	193 190 187 188 189	195 194 189 190 191	267 277 296 306 307	259 267 277 295 303 302 304	263 270 286 300 305 306 308
1 2 3 4 5 6 7 8 9	109 116 116 125 115 116 119 122 126	JUNE 106 106 111 110 110 112 113 114 114	108 112 113 118 113 114 116 118 120	 184 184 182 177	JULY 181 177 171 169 168	 182 180 174 173 173	197 197 190 192 192 191 193 192 190	193 190 187 188 189 188 189 185 183	195 194 189 190 191 189 191 190 187	267 277 296 306 307 309 312 308 314	SEPTEMBE 259 267 277 295 303 302 304 305 307	263 270 286 300 305 306 308 307 309 313
1 2 3 4 5 6 7 8 9 10	109 116 116 125 115 116 119 122 126 127	JUNE 106 106 111 110 110 112 113 114 117 123 125	108 112 113 118 113 114 116 118 120 123	 184 184 182 177 182 180	JULY 181 177 171 169 168 174 178	 182 180 174 173 177 179	197 197 190 192 192 191 193 192 190 187	193 190 187 188 189 188 189 181 183 183	195 194 189 190 191 189 191 190 187 185	267 277 296 306 307 309 312 308 314 315	259 267 277 295 303 302 304 305 307 309	263 270 286 300 305 306 308 307 309 313
1 2 3 4 5 6 7 8 9 10	109 116 116 125 115 116 119 122 126 127 143 135 132	JUNE 106 106 111 110 110 112 113 114 117 123 125 124	108 112 113 118 113 114 116 118 120 123	 184 184 182 177 182 180	JULY 181 177 171 169 168 174 178 180 181	 182 180 174 173 173 177 179 181	197 197 190 192 192 191 193 192 190 187 222 195 197	193 190 187 188 189 185 183 183	195 194 189 190 191 189 191 190 187 185	267 277 296 306 307 309 312 308 314 315	259 267 277 295 303 302 304 305 307 309 306 310 310	263 270 286 300 305 306 308 307 309 313 310 312 313
1 2 3 4 5 6 7 8 9 10	109 116 116 125 115 116 119 122 126 127	JUNE 106 106 111 110 110 112 113 114 117 123 125	108 112 113 118 113 114 116 118 120 123	 184 184 182 177 182 180	JULY 181 177 171 169 168 174 178	 182 180 174 173 177 179	197 197 190 192 192 191 193 192 190 187	193 190 187 188 189 188 189 181 183 183	195 194 189 190 191 189 191 190 187 185	267 277 296 306 307 309 312 308 314 315	259 267 277 295 303 302 304 305 307 309	263 270 286 300 305 306 308 307 309 313
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	109 116 116 125 115 116 119 122 126 127 143 135 132 130 143	JUNE 106 106 111 110 110 112 113 114 117 123 125 124 123 124 136	108 112 113 118 113 114 116 118 120 123 130 130 128 126 132	 184 184 182 177 182 180 181 182 197 201 180	JULY 181 177 171 169 168 174 178 180 181 172 174	 182 180 174 173 173 177 179 181 187 184 177	197 197 190 192 192 191 193 199 190 187 222 195 197 248 201	193 190 187 188 189 188 189 188 189 185 183 183 183 184	195 194 189 190 191 189 191 190 187 185 193 194 190 201 198	267 277 296 306 307 309 312 308 314 315 313 314 316 317 314	259 267 277 295 303 302 304 305 307 309 310 309 310 309	263 270 286 300 305 306 308 307 309 313 310 312 313 314 312
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	109 116 116 125 115 116 119 122 126 127 143 135 132 130 143	JUNE 106 106 111 110 110 111 114 114 117 123 125 124 123 124 136 136	108 112 113 118 113 114 116 118 120 123 130 128 126 132	 184 184 182 177 182 180 181 182 197 201 180	JULY 181 177 171 169 168 174 178 180 181 172 174	 182 180 174 173 173 177 179 181 187 184 177	197 197 190 192 192 191 193 192 190 187 222 195 197 248 201	193 190 187 188 189 188 189 185 183 183 186 191 187 192	195 194 189 190 191 189 191 190 187 185 193 194 190 201 198	267 277 296 306 307 312 308 314 315 313 314 316 317 314	259 267 277 295 303 302 304 305 307 309 310 309 309 309	263 270 286 300 305 306 308 307 309 313 310 312 313 314 312 312 312
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	109 116 116 125 115 116 119 122 126 127 143 135 132 130 143 147 147 143 141	JUNE 106 106 111 110 110 110 112 113 114 117 123 125 124 123 124 136 136 135 137	108 112 113 118 113 114 116 118 120 123 130 130 128 126 132	 184 184 182 177 182 180 181 182 197 201 180	JULY 181 177 171 169 168 174 178 180 181 172 174 179 184 178 172	 182 180 174 173 173 177 179 181 187 187 184 177	197 197 190 192 192 191 193 192 190 187 222 195 197 248 201 739 228 322 305	193 190 187 188 189 185 183 183 186 191 187 192 193	195 194 189 190 191 189 191 190 187 185 193 194 190 201 198 246 220 259	267 277 296 306 307 309 312 308 314 315 313 314 316 317 314 315 313 314 315	259 267 277 295 303 302 304 305 307 309 310 310 309 309 309 308	263 270 286 300 305 305 308 307 309 313 310 312 313 314 312 311 311 309
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	109 116 116 125 115 116 129 120 121 143 135 132 130 143 147 147	JUNE 106 106 111 110 110 112 113 114 117 123 124 123 124 123 124 136 136 136 135	108 112 113 118 113 114 116 118 120 123 130 130 128 126 132	 184 184 182 177 182 180 181 182 197 201 180	JULY 181 177 171 169 168 174 178 180 181 172 174 179 184 179	 182 180 174 173 173 177 179 181 187 184 177	197 197 190 192 192 191 193 192 190 187 222 195 197 248 201	193 190 187 188 189 188 189 185 183 183 183 184 199 192 193	195 194 189 190 191 189 191 190 187 185 193 194 190 201 198 246 220 259	267 277 296 306 307 309 312 308 314 315 313 314 316 317 314	259 267 277 295 303 302 304 305 307 309 310 309 310 309 306 310 309 306 309 306 309 306	263 270 286 300 305 306 308 307 309 313 310 312 313 314 312
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	109 116 116 125 115 116 119 122 126 127 143 135 132 130 143 147 147 143 141 141	JUNE 106 106 111 110 110 110 112 113 114 114 117 123 125 124 123 124 136 136 137 134	108 112 113 118 113 114 116 118 120 123 130 128 126 132 141 143 138 139 139	 184 184 182 177 182 180 181 182 197 201 180 186 189 186 189 173	JULY 181 177 171 169 168 174 178 180 181 172 174 179 184 178 172 170	 182 180 174 173 173 177 179 181 187 184 177	197 197 190 192 192 191 193 192 190 187 222 195 197 248 201 739 228 322 305 293	193 190 187 188 189 188 189 185 183 183 186 191 187 192 193 184 209 222 276 290	195 194 189 190 191 189 191 190 187 185 193 194 190 201 198 246 220 259 292	267 277 296 306 307 309 312 308 314 315 313 314 316 317 314 315 313 314 311 313	SEPTEMBE 259 267 277 295 303 302 304 305 307 309 306 310 310 309 309 306 308 305 307	263 270 286 300 305 306 308 307 309 313 310 312 313 314 312 311 311 309 309
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	109 116 116 125 115 116 129 120 121 121 122 126 127 143 135 132 130 143 147 147 147 143 141 141	JUNE 106 106 111 110 110 112 113 114 114 117 123 124 123 124 136 136 135 137 134	108 112 113 118 113 114 116 118 120 123 130 130 128 126 132 141 143 138 139	 184 184 182 177 182 180 181 182 197 201 180 186 189 186 180 173	JULY 181 177 171 169 168 174 178 180 181 172 174 179 184 178 170	 182 180 174 173 173 177 179 181 187 184 177	197 197 190 192 192 191 193 192 190 187 222 195 197 248 201 739 228 322 305 293	193 190 187 188 189 188 189 185 183 183 183 184 209 222 276 290	195 194 189 190 191 189 191 190 187 185 193 194 190 201 198 246 225 289 292	267 277 296 306 307 309 312 308 314 315 313 314 316 317 314 315 313 314 313	SEPTEMBE 259 267 277 295 303 302 304 305 307 309 306 310 309 310 309 310 309 306 308 305	263 270 286 300 305 306 308 307 309 313 310 312 313 314 312 311 309 309
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	109 116 116 125 115 116 119 122 126 127 143 135 132 130 143 147 1441 141 138 135 136 135	JUNE 106 106 111 110 110 110 112 113 114 114 117 123 125 124 123 124 136 136 137 137 134 133 132 1332 1332	108 112 113 118 113 114 116 118 120 123 130 128 126 132 141 143 138 139 139	 184 184 182 177 182 180 181 182 197 201 180 186 189 186 189 173	JULY 181 177 171 169 168 174 178 180 181 172 174 179 184 178 172 170 171 176 200 212	180 174 173 173 177 179 181 187 184 177 181 186 180 175 171	197 197 190 192 192 191 193 192 190 187 222 195 197 248 201 739 228 322 305 293	193 190 187 188 189 188 189 185 183 183 186 191 187 192 193 222 276 290 291 293 288 277	195 194 189 190 191 189 191 190 187 193 194 190 201 198 246 220 259 289 292	267 277 296 306 307 309 312 308 314 315 313 314 316 317 313 314 315 313 314 315 313 314 315 313 314 315 317 317 318 318 319 311 311 311 311 311 311 311 311 311	SEPTEMBE 259 267 277 295 303 302 304 305 307 310 310 309 310 309 306 308 305 307 315 302 289	263 270 286 300 305 306 308 307 309 313 310 312 313 311 311 309 309
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	109 116 116 125 115 116 119 122 126 127 143 135 130 143 147 147 143 141 141 138 135 136 135 138	JUNE 106 106 111 110 110 110 112 113 114 114 117 123 124 123 124 136 136 135 137 134 133 132 131 132	108 112 113 118 113 114 116 118 120 123 130 130 130 138 126 132 141 143 138 139 139 135 134 134 133 135	 184 184 182 177 182 180 181 182 197 201 180 186 189 186 180 173 176 200 201 214 214	JULY 181 177 171 169 168 174 178 181 172 174 179 184 170 171 176 200 212 210	 182 180 174 173 173 177 179 181 187 184 177 181 186 180 175 171 173 186 208 213 212	197 197 190 192 192 191 193 192 190 187 222 195 197 248 201 739 228 322 305 293 296 300 301 288 283	193 190 187 188 189 188 189 185 183 183 183 184 192 193 184 209 222 276 290 291 293 288 277 275	195 194 189 190 191 189 191 190 187 185 193 194 190 201 198 246 229 289 292 293 295 282 278	267 277 296 306 307 309 312 308 314 315 313 314 315 313 314 315 313 314 315 313 314 311 313 314 311 313 314 315	SEPTEMBE 259 267 277 295 303 302 304 305 307 309 306 310 309 310 309 310 309 310 309 310 309 310 309 306 310 309 307 309 306 310 309 310 309 310 309 310 309 310 309 310	263 270 286 300 305 306 308 307 309 313 310 312 313 314 312 311 309 309 309
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	109 116 116 125 115 116 119 122 126 127 143 135 132 130 143 147 1443 141 141 138 135 136 135 138	JUNE 106 106 111 110 110 110 112 113 114 114 117 123 125 124 123 124 136 136 137 134 133 132 131 132	108 112 113 118 113 114 116 118 120 123 130 128 126 132 141 143 138 139 139 135 134 134 133 135	 184 184 182 177 182 180 181 182 197 201 180 186 189 186 189 1180 173	JULY 181 177 171 169 168 174 178 180 181 172 174 179 184 178 172 170 171 176 200 201 204	 182 180 174 173 173 177 179 181 187 184 177 181 186 180 175 171 173 186 208 213 212	197 197 190 192 192 191 193 192 190 187 222 195 197 248 201 739 228 322 305 293 296 300 301 288 283	193 190 187 188 189 188 189 185 183 183 186 191 187 192 193 222 276 290 291 293 288 277 275	195 194 189 190 191 189 191 190 187 185 193 194 190 201 198 246 220 259 289 292 293 297 295 278	267 277 296 306 307 312 308 314 315 313 314 316 317 313 313 314 311 313 318 319 302 306	SEPTEMBE 259 267 277 295 303 302 304 305 307 310 310 310 309 310 310 309 310 309 306 308 305 307 315 302 289 297	263 270 286 300 305 306 308 307 309 313 310 312 313 314 312 311 311 309 309 311 316 313 296 303
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	109 116 116 125 115 116 119 122 126 127 143 135 132 130 143 147 147 143 141 141 138 135 136 135 138 140 150 152	JUNE 106 106 111 110 110 110 112 113 114 114 117 123 124 123 124 136 136 135 137 134 133 132 131 132	108 112 113 118 113 114 116 118 120 123 130 130 128 126 132 141 143 139 139 139 135 134 134 133 135 138	 184 184 182 177 182 180 181 182 197 201 180 186 189 186 180 173 176 200 214 214 214 214 212 206 201	JULY 181 177 171 169 168 174 178 180 181 172 174 179 184 172 170 171 176 200 212 210 204 198 193	 182 180 174 173 173 177 179 181 187 184 177 181 186 180 175 171 173 186 208 213 212 208 201 196	197 197 190 192 192 191 193 192 190 187 222 195 197 248 201 739 228 322 305 293 296 300 301 288 283 291 289 296	193 190 187 188 189 185 183 183 184 209 222 276 290 291 293 283 287 275 275	195 194 189 190 191 189 191 190 187 185 193 194 190 201 198 246 220 259 289 292 278 279	267 277 296 306 307 309 312 308 314 315 313 314 315 313 314 315 313 314 315 313 314 311 313 314 311 313 314 315	SEPTEMBE 259 267 277 295 303 302 304 305 307 309 306 310 309 310 309 310 309 310 309 310 309 310 309 306 310 309 307 309 306 310 309 310 309 310 309 310 309 310 309 310	263 270 286 300 305 306 308 307 309 313 310 312 313 314 312 311 311 309 309 313 316 313 296 303
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	109 116 116 125 115 116 119 122 126 127 143 135 132 130 143 147 1441 141 138 135 136 135 138 140 150 152 158	JUNE 106 106 111 110 110 110 112 113 114 114 117 123 125 124 123 124 136 136 137 134 133 132 131 132 131 132 134 137 146 137	108 112 113 118 113 114 116 118 120 123 130 128 126 132 141 143 138 139 139 135 134 134 134 134 134 135 138 144 149 155	184 184 182 177 182 180 181 182 197 201 180 186 189 186 180 173 176 200 214 214 214 214 212 206 201 202	JULY 181 177 171 169 168 174 178 180 181 172 174 179 184 178 172 170 171 176 200 212 210 204 198 193 191	 182 180 174 173 173 177 177 181 187 184 177 181 186 180 175 171 173 186 208 213 212 208 201 196	197 197 190 192 192 191 193 192 190 187 222 195 197 248 201 739 228 322 305 293 296 300 301 288 283 291 286 286	193 190 187 188 189 188 189 185 183 183 186 191 187 192 193 222 276 290 291 293 288 277 275 275 277 276	195 194 189 190 191 189 191 190 187 185 193 194 190 201 198 246 220 259 289 292 293 297 295 282 278	267 277 296 306 307 312 308 314 315 313 314 316 317 313 314 311 313 314 311 313 314 311 313 314 316 317 313 314 316 317 317 317 318 319 319 319 319 319 319 319 319 319 319	SEPTEMBE 259 267 277 295 303 302 304 305 307 310 309 310 309 306 308 305 307 315 302 289 297 302 307 303 304	263 270 286 300 305 306 308 307 309 313 310 312 313 314 312 312 311 311 319 309 311 316 313 296 303 306 308 306 309 309 309 309 309 309 309 309 309 309
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	109 116 116 125 115 116 119 122 126 127 143 135 132 130 143 147 147 143 141 141 138 135 136 135 138 140 150 152	JUNE 106 106 111 110 110 110 112 113 114 117 123 125 124 123 124 136 136 135 137 134 133 132 131 132 134 137 146	108 112 113 118 113 114 116 118 120 123 130 130 128 126 132 141 143 139 139 139 135 134 134 133 135 138	 184 184 182 177 182 180 181 182 197 201 180 186 189 186 180 173 176 200 214 214 214 214 212 206 201	JULY 181 177 171 169 168 174 178 180 181 172 174 179 184 172 170 171 176 200 212 210 204 198 193	 182 180 174 173 173 177 179 181 187 184 177 181 186 180 175 171 173 186 208 213 212 208 201 196	197 197 190 192 192 191 193 192 190 187 222 195 197 248 201 739 228 322 305 293 296 300 301 288 283 291 289 296	193 190 187 188 189 185 183 183 184 209 222 276 290 291 293 283 287 275 275	195 194 189 190 191 189 191 190 187 185 193 194 190 201 198 246 220 259 289 292 278 279	267 277 296 306 307 309 312 308 314 315 313 314 315 313 314 315 313 314 311 313 318 311 313 318 319 302 306	SEPTEMBE 259 267 277 295 303 302 304 305 307 309 306 310 310 310 309 309 306 308 305 307 315 307 315 302 289 297 302 307 303	263 270 286 300 305 306 308 307 309 313 310 312 313 314 312 311 311 309 309 313 316 313 296 303
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 20 20 20 20 20 20 20 20 20 20 20 20 20	109 116 116 125 115 116 119 122 126 127 143 135 132 130 143 147 147 143 141 138 135 136 135 138 140 150 152 158 166	JUNE 106 106 111 110 110 112 113 114 114 117 123 125 124 123 124 123 124 123 124 123 124 123 124 123 124 123 124 123 124 123 124 123 124 127 146 149 153	108 112 113 118 113 114 116 118 120 123 130 128 126 132 141 143 138 139 139 135 134 134 134 135 136	184 184 184 182 177 182 180 181 182 197 201 180 186 189 186 180 173 176 200 214 214 214 214 212 206 201 202 195	JULY 181 177 171 169 168 174 178 180 181 172 174 179 184 172 170 171 176 200 212 210 204 198 193 191	 182 180 174 173 173 177 179 181 187 184 177 181 186 180 175 171 173 186 208 213 212 208 201 196 196 199	197 197 190 192 192 191 193 192 190 187 222 195 197 248 201 739 228 322 305 293 296 300 301 288 283 291 289 296 286 286	193 190 187 188 189 188 189 185 183 183 183 183 184 209 222 276 290 291 293 288 277 275 278 277 276 271	195 194 189 190 191 189 191 187 185 193 194 190 201 198 246 220 259 289 292 293 297 295 282 278 279 276	267 277 296 306 307 309 312 308 314 315 313 314 316 317 314 315 313 314 311 313 318 319 302 306	SEPTEMBE 259 2677 277 295 303 302 304 305 307 309 306 310 309 306 308 305 307 315 302 289 297 302 307 303 304 306	263 270 286 300 305 306 308 307 309 313 314 312 311 311 309 309 311 316 313 296 303 306 308 308 306 308 309 310

07096000 ARKANSAS RIVER AT CANON CITY, CO--Continued

			XAIUKE,	WAIER (DEG.			OCTOBER I					
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			VEMBER			ECEMBER			JANUARY	
1 2	12.5 12.5	10.0 10.0	11.3 11.3	7.6 6.5	5.6 4.4	6.6 5.6	4.2 4.8	3.7	3.7 4.0	$\frac{1.4}{1.4}$. 4	.7 .9
3 4	11.5 12.4	9.6 9.1	10.6 10.9	7.2 6.9	4.8 5.0	6.0 6.1	3.8 2.1	1.3	3.0 1.7	.9 .1	.1	. 4 . 1
5	12.6	9.8	11.3	7.0	5.4	6.3	1.4	.0	.6	.2	.1	.1
6 7	13.1 12.7	10.6 11.3	11.8 12.0	7.0 6.7	5.2 4.8	6.1 5.8	1.0	.0	.3	.3	.0	.1
8 9	12.7 13.2	9.7 10.0	11.3 11.7	7.4 8.0	5.3	6.5 7.1	1.2	. 2	.7 .1	.2	.0	.1
10	13.1	10.5	11.9	6.6	5.1	6.0	. 4		.1	.6	.0	.2
11	13.4	10.7	12.1	6.8	4.9	5.8	.7	.0	.2	1.1	.0	.5
12 13	13.0 12.9	10.3 10.3	11.7 11.6	5.9 5.4	4.4 3.8	5.1 4.6	.3 .2	.0	.0	2.7 2.1	.3 .9	1.6 1.5
14 15	12.7 11.8	10.2 9.7	11.5 10.6	5.5 5.3	3.8 3.7	4.6 4.5	.0	.0	.0	1.8	.5 1.0	1.2 1.6
16	10.0	5.6	8.0	5.3	3.7	4.5	.0	.0	.0	3.6	1.8	2.6
17 18	7.1	4.6 5.8	6.0	5.7 6.5	4.1	4.8	.3	.0	.i .1	5.3 5.5	3.6	4.6
19	8.4	5.9	7.2	4.9	3.2	4.0	. 4	.0	.0	6.0	4.7	5.3
20	9.0	6.6	7.9	4.6	3.1	3.8	.0	.0	.0	5.2	3.7	4.3
21 22	9.4 9.4	7.0 7.1	8.3 8.4	4.4 4.5	3.4 3.8	4.0 4.0	.0	.0	.0	4.2 4.0	2.7 2.5	3.6 3.2
23 24	9.5 9.4	7.3 7.3	8.5 8.4	3.9 2.3	1.8	2.5 1.7	.0	.0	.0	3.0 3.1	1.8 1.1	2.5
25	9.1	7.0	8.2	1.6	. 4	1.0	.0	.0	.0	2.9	2.0	2.4
26 27	8.8 8.9	6.8 7.0	7.9 8.0	3.2 4.5	1.4	2.3	.3	.0	.1	3.4 3.4	1.5	2.4
28	9.1	7.1	8.2	4.7	3.3	4.0	.8	.0	.2	3.4	2.2	2.8
29 30	8.7 7.2	7.1 5.4	8.0 6.4	4.5 4.0	3.5 3.3	3.9 3.7	1.1 .9	.0	.4	2.2	.0	.9 .1
31	7.4	5.2	6.5				.9	.0	. 4	.1	.1	.1
MONTH	13.4	4.6	9.5	8.0	. 4	4.7	4.8	.0	.5	6.0	.0	1.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2	.7 1.3	.0	.2	6.7 5.5	5.1 4.7	6.0 5.2	8.5 8.4	2.9 4.8	5.5 6.4	13.3 16.0	9.5 11.0	11.3 13.4
3	2.4	.6	.6 1.5	7.7	3.9	5.8	8.7	5.1	6.6	17.5	12.8	15.2
4 5	3.1 3.4	2.0 1.6	2.5 2.6	8.8 7.6	5.1 5.5	7.0 6.7	12.1 13.8	5.8 9.0	8.7 11.2	18.8 19.0	14.6 15.6	16.8 17.3
6	3.9	2.5	3.1	6.8	3.7	5.4	13.6		11.3	17.4	14.8	15.8
7 8	3.8 4.1	2.2	3.0	7.8 7.9	4.8 4.8	6.3 6.3	12.3 12.0	8.6 7.4	10.3 9.7	17.3 15.6	14.2 11.4	15.5 13.2
9 10	3.8 4.3	2.5 2.9	3.2	7.1 6.0	4.4 3.6	5.5 4.7	14.4 13.0	8.7 10.4	11.4 11.5	15.1 16.7	10.3 12.7	12.7 14.8
11	3.8	2.9	3.3	6.7	2.7	4.7	10.7	8.2	9.5	17.0	13.8	15.2
12	5.4	3.1	4.0	6.4	4.7	5.3	12.9	6.7	9.6	14.4	12.1	13.3
13 14	4.6 5.3	2.4 2.6	3.5 4.0	7.8 8.5	4.2 5.3	6.0 7.0	14.3 15.5	9.7 10.5	12.0 12.8	13.6 14.7	10.5 11.2	12.0 13.1
15	6.4	4.3	5.3	7.4	3.2	6.0	12.6	8.7	9.8	16.4	11.7	14.1
16 17	5.8 6.1	4.0 4.6	5.1 5.3	6.7 8.6	2.9 4.7	4.8 6.7	13.7 14.9	7.3 9.8	10.3 12.2	15.2 13.3	13.0 11.6	$14.1 \\ 12.4$
18 19	4.8	3.6 2.4	4.2 3.5	8.2 7.1	5.7 3.8	7.3 5.5	14.9 11.5	10.9 8.9	12.7 10.3	12.2 12.9	10.3 9.8	$11.4 \\ 11.4$
20	4.2	2.3	3.4	6.3	3.6	5.4	13.9	8.3	11.0	13.4	11.3	12.4
21 22	6.2 6.8	3.0 4.7	4.6 5.5	5.0 4.6	2.8	3.9 4.0	13.9 13.2	9.9 10.3	12.1 11.5	15.8 16.7	12.3 13.6	14.0 15.2
23	6.0	3.7	5.0	8.4	3.4	5.9	13.7	11.0	11.9	18.4	14.7	16.6
24 25	6.8 5.7	$\frac{4.1}{2.4}$	5.5 4.1	10.4 10.9	6.2 7.7	8.3 9.3	16.4 15.4	11.3 10.4	13.4 12.7	17.9 16.0	15.2 13.6	16.2 14.9
26	4.1	1.4	2.7	11.0	8.2	9.7	16.0	10.6	13.3	14.6	12.3	13.2
27 28	5.4 6.6	2.4 3.9	4.0 5.3	12.2 10.3	7.8 8.3	10.0 9.4	17.5 16.6	12.3 13.1	14.6 14.8	15.2 16.4	10.9 13.0	13.0 14.8
29 30	7.6	4.6	6.1	11.9 9.9	8.1 6.4	9.8 8.6	17.4 14.8	13.1 10.7	14.9 12.5	16.1 16.6	14.5 13.9	15.4 15.2
31				6.4	3.4	4.6				17.1	14.3	15.6
MONTH	7.6	.0	3.7	12.2	2.7	6.5	17.5	2.9	11.1	19.0	9.5	14.2

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	15.9 15.7 15.8 16.3 16.4	13.7 13.8 13.5 13.8 13.8	15.0 14.9 14.8 15.1 15.3	20.1 20.5 20.4 21.0 20.9	18.1 17.5 17.8 17.3 17.6	19.2 19.2 19.1 19.2 19.4	21.1 20.4 20.6 20.8 21.4	18.4 18.2 18.1 18.7 18.8	19.9 19.4 19.4 19.9 20.1	19.8 19.9 17.8 19.2 20.4	17.7 16.8 16.0 14.4 17.1	18.8 18.2 17.0 17.0 18.7
6 7 8 9 10	16.3 17.3 18.0 17.7 16.6	13.6 13.9 14.9 14.8 14.3	15.1 15.7 16.4 16.3 15.7	21.3 21.4 20.8 21.4 20.9	18.7 19.3 17.9 18.7 18.5	20.0 20.3 19.4 20.2 19.9	22.0 21.6 21.3 21.5 22.3	18.8 18.8 18.3 18.4 19.2	20.3 20.3 19.8 19.9 20.7	20.3 18.9 18.5 18.5	17.8 15.8 15.8 15.2 15.4	18.7 17.3 16.9 16.8 17.1
11 12 13 14 15	16.2 16.5 16.8 17.8 18.5	14.3 13.7 14.6 14.9 15.4	15.4 15.2 15.9 16.4 17.0	22.0 21.3 21.6 21.8 22.2	18.9 19.7 18.6 16.5 19.7	20.6 20.4 20.1 19.8 20.8	21.0 20.1 21.5 22.3 22.0	19.3 18.4 17.9 19.5 19.3	20.2 19.2 19.5 20.8 20.5	19.7 19.2 19.7 19.5 19.8	15.6 15.6 15.3 16.2 15.9	17.5 17.4 17.4 17.7 17.8
16 17 18 19 20	17.4 16.1 16.3 18.0 18.8	15.2 14.2 14.8 15.2 16.2	16.4 15.0 15.6 16.6 17.4	20.7 21.1 21.3 21.4 22.6	19.1 18.9 18.4 18.7 19.5	19.8 20.0 20.0 20.1 20.9	20.7 20.7 21.5 21.5 22.0	18.5 18.9 18.7 18.8 18.9	19.3 19.6 19.8 20.0 20.1	20.1 19.1 19.2 18.8 17.1	16.2 16.3 16.6 15.3 12.8	18.0 17.9 17.7 17.1 14.7
21 22 23 24 25	18.5 19.2 18.9 17.9 18.3	16.0 16.6 16.8 15.6 16.4	17.3 17.8 17.8 16.8 17.6	21.4 22.3 22.0 20.5 21.1	19.2 19.5 19.1 18.8 17.9	20.3 20.7 20.5 19.6 19.4	21.0 22.0 21.3 21.1 21.7	17.6 18.4 17.6 17.7 18.3	19.3 20.0 19.4 19.3 19.7	15.3 15.1 13.7 9.6 13.6	11.5 13.7 9.6 8.4 9.5	13.5 14.4 12.0 9.1 11.3
26 27 28 29 30 31	18.2 17.8 18.1 19.5 20.4	15.6 15.0 16.6 16.7 17.2	16.5 16.3 17.3 18.1 18.9	20.4 20.5 20.5 21.2 21.1 21.2	18.6 19.1 18.3 18.3 18.5	19.6 19.9 19.4 19.9 20.0	21.0 21.2 21.5 22.4 21.2 19.7	18.4 17.7 18.6 19.0 19.0	19.7 19.5 20.1 20.6 20.0 18.9	14.3 15.0 15.7 16.4 17.1	10.8 11.5 12.1 13.3 13.9	12.5 13.1 13.8 14.6 15.3
MONTH	20.4	13.5	16.3	22.6	16.5	19.9	22.4	17.6	19.8	20.4	8.4	16.0

07096250 FOURMILE CREEK BELOW CRIPPLE CREEK NEAR VICTOR, CO

LOCATION.--Lat $38^\circ 39^\circ 52^\circ$, long $105^\circ 13^\circ 37^\circ$, in $SW^1/_4SE^1/_4$ 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 fair except for estimated daily discharges, which are poor. Natural flow of stream affected by small diversions for irrigation, flows from Cripple Creek sewage treatment plant, and releases from Pisgah Lake. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

_	J	DISCHAR	GE, CUBIC	C FEET PER		VATER YEA MEAN VAI	AR OCTOBER LUES	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	28 27 26 26 24	15 15 15 15 14	e13 e12 e11 e11 e11	e14 e13 e12 e12 e12	e11 e12 e13 13	12 12 12 13 14	27 26 26 29 34	43 40 40 41 40	38 37 30 26 26	16 15 15 14 13	36 36 36 39 39	14 12 12 11 11
6 7 8 9 10	24 25 29 27 25	14 14 14 14	e12 e13 e13 e12 e11	e12 e12 e12 e12 e12	13 12 12 12 11	13 14 13 13	39 40 41 42 45	42 44 90 102 100	26 26 25 24 17	12 12 13 11 9.9	37 37 34 33 33	9.7 9.3 9.7 9.6 8.7
11 12 13 14 15	24 23 21 21 20	14 14 13 13	e11 e11 e11 e12 e13	e12 e12 e11 e11 e11	11 12 11 12 12	12 12 12 13 13	45 43 43 41 42	89 83 78 75 71	15 15 13 14 13	9.6 11 13 12 11	32 32 33 28 11	8.0 7.7 7.2 6.7 6.7
16 17 18 19 20	22 25 25 22 20	13 13 13 12 12	e14 e15 e15 e15 e15	e11 e11 e11 e11 e12	12 12 11 12 13	14 17 18 16 19	40 36 38 41 37	63 62 64 78 65	13 14 15 14 14	12 18 23 22 21	11 10 14 11 9.6	6.4 6.8 7.1 7.5
21 22 23 24 25	19 18 17 17 16	12 14 e11 e11 e11	e14 e12 e11 e11 e11	e11 e11 e13 e16 e12	13 13 12 13 11	16 17 19 22 24	35 35 38 44 40	61 55 51 54 54	13 12 12 12 12	21 21 21 20 21	9.3 9.2 8.6 9.4	7.7 7.4 8.3 10 9.2
26 27 28 29 30 31	16 16 15 16 15	e11 e12 e13 e13 e13	e11 e12 e13 e14 e14 e14	e11 e11 e11 e11 e11	11 13 13 12 	25 26 27 27 27 27	37 37 40 42 44	51 47 45 44 39 38	19 19 21 19 16	22 22 32 40 38 36	11 9.4 9.3 11 16 16	7.9 7.2 6.7 6.5 6.5
TOTAL MEAN MAX MIN AC-FT	665 21.5 29 15 1320	395 13.2 15 11 783	388 12.5 15 11 770	365 11.8 16 11 724	351 12.1 13 11 696	531 17.1 27 12 1050	1147 38.2 45 26 2280	1849 59.6 102 38 3670	569 19.0 38 11 1130	577.5 18.6 40 9.6 1150	670.8 21.6 39 8.6 1330	254.9 8.50 14 6.4 506
							BY WATER Y					
MEAN MAX (WY) MIN (WY)	15.7 21.5 2000 6.65 1994	11.9 21.8 1995 6.91 1999	8.71 16.6 1996 5.66 1994	7.80 15.4 1996 4.55 1997	6.93 12.1 2000 3.79 1995	8.76 17.1 2000 3.56 1999	21.8 40.2 1994 9.75 1997	68.6 149 1994 12.3 1996	50.6 128 1995 11.8 1996	26.9 75.8 1995 11.2 1993	31.6 101 1999 4.95 1993	21.3 44.9 1998 5.19 1993
SUMMARY	STATISTI	CS	FOR 1	1999 CALEN	DAR YEAR	FC	OR 2000 WAT	TER YEAR		WATER YE	ARS 1993	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN AN N MINIMUM AK FLOW AK STAGE C-FT) DS		13825.7 37.9 225 3.1 3.2 27420 106 16 4.0	May 3 Mar 30 Mar 25		7763.2 21.2 102 6.4 6.8 129 3.77 15400 41 14	May 9 Sep 16 Sep 13 May 8 May 8		23.5 38.2 12.6 373 2.5 3.2 a647 4.62 17010 55 12 5.2	Mar Feb Jun 1	1995 1993 11 1994 1 1995 4 1998 17 1995 17 1995

e Estimated.

a From rating curve extended above 187 ${\rm ft}^3/{\rm s}$.

arkansas river basin 167

07097000 ARKANSAS RIVER AT PORTLAND, CO

LOCATION.--Lat $38^\circ23^\circ18^\circ$, long $105^\circ00^\circ56^\circ$, in $\mathrm{NE}^1/_4\mathrm{NE}^1/_4$ 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 U.S. Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		2100111	102, 0021	.0 1221 12	DAILY	MEAN V	ALUES	2210 2333 10	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	513	509	411	446	386	408	434	646	3360	854	664	451
2	504	509	416	443	395	409	409	548	3150	801	669	404
3	499	455	424	428	398	423	434	505	3060	784	683	326
4	486	458	424	390	404	405	413	572	3060	768	676	315
5	457	488	388	452	394	405	461	658	2960	747	678	e277
6	440	488	367	489	393	417	590	838	2870	723	676	e279
7	442	523	400	372	380	421	583	971	2600	781	668	e242
8	455	504	406	403	368	389	510	1100	2350	807	651	e246
9	471	494	404	392	394	376	449	1230	2080	846	649	e248
10	457	496	381	394	386	377	398	1040	1920	852	684	e271
11	450	485	392	419	399	365	452	1030	1630	833	636	e265
12	429	461	384	406	395	379	455	1040	1510	816	613	e250
13	e424	441	373	422	376	386	406	1070	1510	850	677	227
14	407	438	373	422	366	374	385	982	1500	989	921	211
15	412	428	351	407	374	395	395	905	1270	836	790	203
16	457	407	334	411	385	436	414	842	1090	890	826	203
17	491	409	372	415	385	415	363	901	1160	1030	632	202
18	498	405	379	423	392	439	340	1330	1260	1100	621	191
19	552	390	396	423	381	410	377	1480	1190	1020	437	192
20	534	364	433	424	372	407	359	1460	1160	787	414	200
21	504	381	441	417	375	466	324	1390	1330	704	358	208
22	477	413	446	413	386	446	326	1350	1280	690	380	208
23	470	429	453	405	402	455	334	1360	1240	703	387	235
24	476	403	449	392	407	480	321	1940	1250	679	390	337
25	474	397	460	398	408	508	313	2790	1240	654	383	287
26 27 28 29 30 31	466 445 434 439 455 447	404 427 444 433 425	456 450 462 449 442 447	417 428 430 380 358 362	377 382 409 413 	536 548 510 506 477 465	311 276 293 486 618	2750 2550 2310 2340 2880 3260	1350 1460 1270 1100 1000	651 656 677 698 690 678	421 399 386 393 414 430	278 279 277 282 261
TOTAL	14465	13308	12763	12781	11282	13433	12229	44068	53210	24594	17606	7855
MEAN	467	444	412	412	389	433	408	1422	1774	793	568	262
MAX	552	523	462	489	413	548	618	3260	3360	1100	921	451
MIN	407	364	334	358	366	365	276	505	1000	651	358	191
AC-FT	28690	26400	25320	25350	22380	26640	24260	87410	105500	48780	34920	15580
STATIST	rics of M	ONTHLY ME	AN DATA F	OR WATER	YEARS 1939	- 2000	, BY WATE	ER YEAR (W	Y)			
MEAN	396	421	379	361	353	369	506	1201	2518	1604	953	455
MAX	1083	748	693	626	774	683	1869	2680	4429	4472	2380	1008
(WY)	1985	1985	1983	1983	1985	1989	1942	1984	1980	1995	1984	1982
MIN	136	191	212	199	162	147	135	245	581	242	201	172
(WY)	1978	1978	1978	1979	1978	1978	1981	1977	1977	1977	1977	1977
SUMMARY	Y STATIST	ICS	FOR	1999 CALE	NDAR YEAR		FOR 2000	WATER YEAR	ર	WATER Y	EARS 1939	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT ANNUAL 10 PERC	MEAN F ANNUAL ANNUAL M F DAILY M DAILY ME SEVEN-DA FANEOUS P	EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		334342 916 3970 175 199 663200 1990 528 355	Apr 30 Apr 12 Apr 11		237594 649 3360 191 200 3600 5 471300 1240 441 336	Jun : Sep 14 Sep 11 Jun : 64 Jun :	3 5 1	800 1387 315 7460 66 76 a21100 12.1 579500 1880 461 228	Oct : Oct : Jun	1995 1977 8 1942 28 1977 24 1977 5 1949 5 1949

e Estimated.

a From rating curve extended above $5300 \text{ ft}^3/\text{s}$.

07097000 ARKANSAS RIVER AT PORTLAND, CO--Continued

WATER-OUALITY RECORDS

PERIOD OF RECORD.--February 1977 to current year. October 1979 to October 1982 published records include observer once-daily water temperature and specific conductance measurements.

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 are fair except for Oct. 9, 19-20, Jan. 7, 30-31, Feb. 3-4, June 22-23, July 27-28, Aug. 20, 22-27, 30, and Sept. 11-13, 18, which are poor. Water temperature records are good except for Oct. 9, June 22, July 27, Aug. 22, 28, and Sept. 12-20, which are poor. 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, 1,420 microsiemens, Aug. 18, 2000; minimum, 111 microsiemens, June 22, 1984. WATER TEMPERATURE: Maximum, 26.0°C, July 27, 1987, Aug. 27, 2000; minimum, 0.0°C, many days.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,420 microsiemens, Aug. 18; minimum, 148 microsiemens, June 1. WATER TEMPERATURE: Maximum, 26.0°C, Aug. 27; minimum, 0.0°C, many days.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER		NOVEMBER			DE	CEMBER		JANUARY			
1 2 3 4 5	493 497 493 516 523	466 459 473 482 495	479 480 488 493 509	661 584 539 552 521	495 512 498 512 503	527 532 524 524 512	565 559 559 556 590	521 535 536 530 532	549 545 548 541 553	483 493 481 536 513	458 455 452 441 455	469 471 468 477 480
6 7 8 9 10	529 525 544 525	504 498 495 508	519 513 528 514	525 530 530 531 540	505 506 504 513 512	516 515 519 524 526	577 566 550 583 588	555 539 531 523 518	567 551 542 545 560	496 521 502 494 484	451 472 470 448 461	469 496 484 473 472
11 12 13 14 15	536 530 525	 494 489 488	 522 516 511	534 556 552 552 553	514 530 525 514 524	526 537 541 542 543	564 567 579 568 607	535 531 537 531 474	549 547 556 553 551	494 482 487 529 523	430 443 430 461 493	465 464 456 485 505
16 17 18 19 20	514 513 561 572 536	494 499 486 539 513	502 507 506 555 529	556 582 573 558 619	500 525 496 527 522	536 553 546 546 560	606 579 567 553 516	568 547 528 515 469	592 562 545 532 504	518 507 508 496 491	495 493 467 473 461	506 499 493 486 478
21 22 23 24 25	533 537 534 549 542	514 506 506 490 497	524 527 521 517 511	588 581 561 563 575	536 539 514 538 549	555 553 543 549 559	497 496 499 489 491	452 439 436 449 429	478 464 469 472 463	496 499 504 522 515	470 473 477 480 476	482 488 490 499 492
26 27 28 29 30 31	520 529 529 538 537 524	497 499 499 506 496 493	510 513 516 526 516 513	574 571 554 544 556	551 520 518 529 528	564 549 537 536 537	480 484 479 482 493 487	452 452 437 452 449 449	467 467 461 464 465 464	505 500 515 544 543 543	455 469 480 481 510 498	487 486 492 511 526 525
MONTH				661	495	538	607	429	520	544	430	486

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07097000 ARKANSAS RIVER AT PORTLAND, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

							,					
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	521 502 486 471 481	456 460 469 463 462	492 481 476 467 473	459 467 471 474 476	447 455 451 458 464	453 461 462 465 470	670 660 622 663 580	545 602 584 536 525	580 625 604 595 557	493 458 457 447 410	421 425 426 400 376	443 439 440 420 388
6 7 8 9 10	483 479 488 487 482	459 456 457 452 471	469 469 477 475 478	469 460 463 469 475	449 377 419 451 456	459 405 443 459 466	552 527 528 537 566	491 495 501 513 522	517 510 514 522 545	383 330 416 387 372	328 320 313 316 329	351 326 348 339 342
11 12 13 14 15	480 485 512 494 483	465	476 475 484 484 476	483 481 475 477 496	455 461 436 444 444	467 469 462 452 465	554 606 627 574 576	515 519 545 548 546	536 533 559 557 563	349 329 320 333 346	325 311 306 312 322	334 319 311 322 333
16 17 18 19 20	497 493 500 482 504	427 466 464 458 461	472 478 477 471 481	702 579 655 536 653	474 499 533 500 473	506 527 579 515 511	555 585 593 585 581	546 554 557 542 542	549 567 580 567 555	350 370 310 271 260	330 310 263 252 247	341 344 286 263 254
21 22 23 24 25	490 489 486 476 463	465 471 452 441 447	479 479 473 467 456	543 580 580 504 486	466 498 500 478 466	494 518 528 487 476	586 588 577 571 588	544 560 555 552 536	561 575 566 561 558	264 262 256 238 415	251 244 238 189 176	256 252 244 217 196
26 27 28 29 30 31	476 473 466 459 	447 450 449 444 	459 463 456 452 	505 481 481 506 487 575	459 460 451 454 442 459	473 470 469 473 468 512	582 598 608 551 522	549 572 545 468 441	563 586 582 498 474	217 186 196 201 178 170	177 177 185 178 160 151	183 182 191 188 169 160
MONTH	521	427	473	702	377	479	670	441	555	493	151	296
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBI	
DAY 1 2 3 4 5	MAX 160 162 169 169 172			MAX 286 295 298 294 295		MEAN 277 290 292 287 290			340 335 331 330 335	458		
1 2 3 4	160 162 169 169	JUNE 148 150 160 160 159	153 158 164 164 164 169 173 176 187	286 295 298 294 295 299 290 289 278 285	JULY 268 280 284 279	277 290 292 287	349 343 335 336 342	AUGUST	340 335 331 330	458 477 512 533	SEPTEMBI 441 443 472 457	450 458 497 507
1 2 3 4 5 6 7 8 9 10	160 162 169 169 172 175 178 181 197	JUNE 148 150 160 160 159 166 168 171 180 181	153 158 164 164 164 169 173 176 187	286 295 298 294 295 299 290 289 278	JULY 268 280 284 279 281 278 269 264 269	277 290 292 287 290 292 282 280 273 277	349 343 335 336 342 341 340 329	329 324 325 325 323 327 327 321 323 319	340 335 331 330 335 335 332 331 326	458 477 512 533 660 579 584 586 603 607 588 594 616	SEPTEMBI 441 443 472 457 425 472 485 487 396	450 458 497 507 527 540 544 554 551
1 2 3 4 5 6 7 8 9 10 11 12 13 14	160 162 169 169 172 175 178 181 197 208 203 205 206 206	JUNE 148 150 160 160 159 166 168 171 180 181 187 193 193	153 158 164 164 164 169 173 176 187 187 196 200 198	286 295 298 294 295 299 290 289 278 285 302 297 298	JULY 268 280 284 279 281 278 269 262 272 274 280 269	277 290 292 287 290 292 282 280 273 277	349 343 335 336 342 341 340 329 335	329 324 325 325 323 327 327 321 323 319	340 335 331 330 335 335 332 331 326 325 342 349 332 460	458 477 512 533 660 579 584 586 603 607 588 594 616	441 443 472 457 425 472 485 487 396 530 491 473 518	450 458 497 507 527 540 544 554 551 564
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	160 162 169 169 172 175 178 181 197 208 203 205 206 232 244 240 225	JUNE 148 150 160 160 159 166 168 171 180 181 187 193 193 195 220 218 215 217	153 158 164 164 164 169 173 176 187 196 201 200 198 211	286 295 298 294 295 299 289 278 285 302 297 298 344 303	JULY 268 280 284 279 281 278 269 264 269 262 272 274 280 269 289 293 311 289 292	277 290 292 287 290 292 282 280 273 277 280 286 287 304 295	349 343 335 336 342 341 340 329 335 365 362 349 671 700 667 395 1420 530	AUGUST 329 324 325 325 323 327 321 323 319 329 344 318 281 320 323 3552 382 468	340 335 331 330 335 335 332 331 326 325 342 349 332 460 388 378 370 604	458 477 512 533 660 579 584 586 603 607 588 594 616 	SEPTEMBI 441 443 472 457 425 472 485 487 396 530 491 473 518 556 556	450 458 497 507 527 540 554 554 554 553 586 574 579
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	160 162 169 169 172 175 178 181 197 208 203 205 206 206 232 244 240 225 225 229 215 212 200	JUNE 148 150 160 160 159 166 168 171 180 181 187 193 193 195 220 218 215 217 210 206 205 201 200	153 158 164 164 164 169 173 176 187 196 201 200 198 211 228 232 220 221 223 210 209 204 206	286 295 298 294 295 299 290 289 278 285 302 297 298 344 303 303 305 473 348 351 358 351 358 348 342 347 348	JULY 268 280 284 279 281 278 269 264 269 262 272 274 280 269 289 293 311 289 292 305 345 347 336 330 338 332 340 323 326	277 290 292 287 290 292 2887 290 292 280 273 277 280 286 287 304 295 349 366 311 302 332 355 364 345 341 344 343 346 327 331 333	349 343 335 336 342 341 340 329 335 365 362 349 671 700 667 395 1420 530 506 531 522 495	329 324 325 325 323 327 327 321 323 319 329 344 318 281 320 323 3552 382 468 461 465 484 462 456 464	340 335 331 330 335 332 331 326 325 342 460 388 370 604 506 490 508 503 486 467 563 482 486	458 477 512 533 660 579 584 586 603 607 588 594 616 601 597 596 618 608	\$\$\text{441}\$\$ 441 443 472 457 425 472 485 487 396 530 491 473 518 556 553 \$\$\text{559}\$\$ 570 564 559 525	450 458 497 507 527 540 554 551 563 586 574 579 574 584 584 559
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	160 162 169 169 172 175 178 181 197 208 203 206 206 232 244 240 225 225 229 215 212 205 213 256 257 269	JUNE 148 150 160 160 159 166 168 171 180 181 187 193 193 193 195 220 218 215 217 210 206 205 201 200 201 200 211 237 236 251 254	153 158 164 164 164 169 173 176 187 187 198 201 200 198 211 228 232 220 221 223 210 209 204 209 204 209 246 256 266	286 295 298 294 295 299 290 289 278 302 297 298 344 303 905 473 389 312 348 363 373 353 358 351	JULY 268 280 284 279 281 278 269 264 269 262 272 280 289 293 311 289 292 305 345 347 336 330 338 332 340 323 326	277 290 292 287 290 292 282 280 273 277 280 286 287 304 295 349 366 311 302 332 355 364 345 341 344 343 346 327 331	349 343 335 336 342 341 340 329 335 365 362 349 671 700 667 395 1420 530 506 542 531 522 495	AUGUST 329 324 325 325 323 327 321 323 319 329 344 318 281 320 323 352 382 468 461 485 484 445 445 444	340 335 331 330 335 335 332 331 326 325 342 469 388 378 370 604 506 490 508 503 486 467	458 477 512 533 660 579 584 586 603 607 588 594 616 601 597 596 610 618 608 604 578 591 578	441 443 472 457 425 472 485 487 396 530 491 473 518 556 556 556 556 557 570 564 559 525 539 544 528 552 508	500 4584 450 4458 497 507 527 540 544 551 564 579 574 579 574 578 559 564 560 555 555

07097000 ARKANSAS RIVER AT PORTLAND, CO--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			OVEMBER			ECEMBER			JANUARY	
1 2 3 4 5	15.6 14.5 13.1 14.7 15.7	9.9 10.0 9.7 8.7 10.2	12.5 12.1 11.3 11.6 12.7	9.8 9.0 10.0 10.3 10.3	6.9 5.1 5.7 5.8 6.4	7.9 6.9 7.6 7.9 8.1	7.1 7.0 5.2 5.1 4.3	4.6 4.5 3.9 2.2	5.7 5.5 4.4 3.7 2.3	3.8 3.5 2.5 1.2 2.3	.5 .7 .0 .0	2.1 2.1 1.3 .4
6 7 8 9 10		11.6	12.9 13.0 12.7 13.0	10.3 10.0 10.6 11.1 10.1	5.7 5.9 6.4 7.5 6.1	7.8 7.8 8.3 8.9 8.0	4.1 4.2 2.5 3.1 3.1	.9 .9 1.1 .2	2.4 2.4 1.8 1.6 1.4	2.6 1.6 3.1 2.3 3.3	.0 .0 .0	1.0 .5 1.2 .8 1.3
11 12 13 14 15	16.2 15.8 15.9 14.8	11.1 11.0 10.4	13.4 13.2 12.4	10.5 9.8 9.3 9.0 9.3	6.2 5.7 5.0 4.8 4.8	8.0 7.5 7.0 6.7 6.7	3.2 3.2 3.0 1.8	.3 .0 .0 .0	1.6 1.3 1.4 .8	4.0 4.9 4.3 4.5 4.7	.0 1.2 1.0 .3 1.3	1.7 2.9 2.6 2.3 2.9
16 17 18 19 20	11.8 10.2 9.6 12.0	7.5 6.0 6.1 7.1	9.4 8.0 7.8 	9.0 9.4 8.6 7.9 7.4	4.9 5.1 5.8 4.3 4.1	6.7 7.2 7.0 6.0 5.6	3.3 3.3 3.7 3.2 1.7	.0 .6 .0 .1	1.4 1.8 1.8 1.5	5.4 7.4 7.6 8.5 6.5	1.4 2.9 4.1 4.8 3.4	3.3 5.0 5.6 6.2 5.0
21 22 23 24 25	12.6 12.6 12.7 12.6 12.4	7.9 8.1 8.1	10.0 10.1 10.2 10.1 10.1	7.2 6.0 5.8 5.3 4.7	4.2 4.8 3.4 2.4 1.3	5.8 5.4 4.6 3.7 3.0	.0 .2 1.8 2.8 3.2	.0	.0 .6 1.0	6.5 5.7 5.3 5.6 3.8	2.7 2.9 1.4 .7 2.4	4.6 4.1 3.1 3.1 3.0
26 27 28 29 30 31	12.5 11.7 12.0 10.2 10.5 10.8	7.7 7.9 7.6 7.9 6.4 6.0	9.9 9.6 9.8 9.1 8.2 8.2	6.8 7.2 7.6 6.9 6.7	3.1 3.6 3.4 3.6 3.8	4.8 5.3 5.4 5.2 5.3	3.6 3.7 4.1 4.3 3.6 3.7	.2 .1 .7 .8 .0	1.6 1.7 2.1 2.4 1.7	4.3 4.3 4.7 3.8 2.4 1.8	2.3	2.9 3.2 3.2 1.9 .6
				11.1	1.3	6.5	7.1	.0	1.9	8.5	.0	2.6
MONTH												
MONTH	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		MIN FEBRUARY	MEAN	MAX	MARCH	MEAN		APRIL			MIN MAY	MEAN
		.0 .1 1.2	MEAN	MAX	MARCH	7.3 6.6 7.3 8.4 8.2	10.9 10.7 11.7		7.4 7.6 7.9 9.5 12.2			MEAN 13.1 14.7 16.4 17.9 18.5
DAY 1 2 3 4	3.7 4.9 5.6 6.0	.0 .1 1.2 1.7	1.5 2.3 3.8 4.5 4.6 4.7 4.8 4.8	9.5 7.5 10.3 11.7 10.6 9.9 9.4 9.2 9.3 8.0	MARCH 5.3 6.0 4.9 5.4 6.3 5.1 5.8 5.7 5.4 4.5	7.3 6.6 7.3 8.4	10.9 10.7 11.7 14.1 15.9 15.5 14.1 13.6 16.5 14.8	4.4 4.8 4.9 5.3 8.9 10.1 9.4 7.6 8.8 10.3	7.4 7.6 7.9 9.5 12.2 12.7 11.6 10.6 12.4 12.5	16.3 18.6 20.3 21.9 22.1 18.9 19.4 16.3 16.8 19.2	MAY 10.5 11.1 12.6 14.5 15.5	13.1 14.7 16.4 17.9
DAY 1 2 3 4 5 6 7 7 8 9 10	3.7 4.9 5.6 6.0 6.7 7.1 6.9 6.0 5.8 4.5 6.5	.0 .1 1.2 1.7 2.4 2.7 3.8 3.7	1.5 2.3 3.8 4.5 4.6 4.7 4.8 4.8	9.5 7.5 10.3 11.7 10.6 9.9 9.4 9.2 9.3 8.0	MARCH 5.3 6.0 4.9 5.4 6.3 5.1 5.8 5.7 5.4 4.5	7.3 6.6 7.3 8.4 8.2 7.4 7.6 7.4 7.1	10.9 10.7 11.7 14.1 15.9 15.5 14.1 13.6 16.5 14.8	4.4 4.8 4.9 5.3 8.9	7.4 7.6 7.9 9.5 12.2 12.7 11.6 10.6 12.4 12.5	16.3 18.6 20.3 21.9 22.1 18.9 19.4 16.3 16.8 19.2 19.5 16.8 15.4 16.4	MAY 10.5 11.1 12.6 14.5 15.5 15.5 14.4 12.2 11.0 13.0 14.1 12.3 10.6 11.7 12.2	13.1 14.7 16.4 17.9 18.5 16.9 16.5 14.0 13.7
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	3.7 4.9 5.6 6.0 6.7 7.1 6.9 6.0 5.8 4.5 6.5	.0 .1 1.2 1.7 2.4 2.4 2.7 3.8 3.7 3.5 3.3	1.5 2.3 3.8 4.5 4.6 4.7 4.8 4.8 4.0 4.6 4.9 5.7	9.5 7.5 10.3 11.7 10.6 9.9 9.4 9.2 9.3 8.0 9.9 8.9 10.3 11.4	MARCH 5.3 6.0 4.9 5.4 6.3 5.1 5.8 5.7 5.4 4.5 3.7 4.5 3.7 5.3	7.3 6.6 7.3 8.4 8.2 7.4 7.6 7.1 6.0 6.7 6.8 8.3	10.9 10.7 11.7 14.1 15.9 15.5 14.1 13.6 16.5 14.8	4.4 4.8 4.9 5.3 8.9 10.1 9.4 7.6 8.8 10.3	7.4 7.6 7.9 9.5 12.2 12.7 11.6 10.6 12.4 12.5	16.3 18.6 20.3 21.9 22.1 18.9 19.4 16.3 16.8 19.2 19.5 16.8 15.4 16.4	MAY 10.5 11.1 12.6 14.5 15.5 15.5 14.4 12.2 11.0 13.0 14.1 12.3 10.6 11.7 12.2 13.7 11.8 11.5 10.6	13.1 14.7 16.4 17.9 18.5 16.9 16.5 14.0 13.7 15.9
DAY 1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19	3.7 4.9 5.6 6.0 6.7 7.1 6.9 6.0 5.8 4.5 6.5 8.5 9.3 8.7 7.7,7	.0 .1 1.2 1.7 2.4 2.7 3.8 3.7 3.5 3.3 3.4 2.9 4.3 4.6 4.5 2.9	MEAN 1.5 2.3 3.8 4.5 4.6 4.7 4.8 4.0 4.6 4.9 5.7 6.6 6.5 6.0 5.88 4.8	9.5 7.5 10.3 11.7 10.6 9.9 9.4 9.2 9.3 8.0 9.9 10.3 11.4 9.1	MARCH 5.3 6.0 9.4 6.3 5.1 5.8 5.7 5.4 4.5 3.7 4.5 3.7 4.5 3.7 5.3 4.5 3.3 4.5 3.3 4.5 3.3 4.5 3.3	7.3 6.6 7.3 8.4 8.2 7.4 7.6 7.4 7.1 6.8 6.9 7.4 6.1 7.5 8.3 7.5	10.9 10.7 11.7 14.1 15.9 15.5 14.1 13.6 16.5 14.8 11.9 15.1 16.5 16.8 13.7	APRIL 4.4 4.8 4.9 5.3 8.9 10.1 9.4 7.6 8.8 10.3 9.2 7.2 9.9 10.9 9.7 6.8 9.3 10.3 8.9 8.3 9.8 10.9	7.4 7.6 7.9 9.5 12.2 12.7 11.6 10.6 12.4 12.5 10.9 11.0 13.7 11.1	16.3 18.6 20.3 21.9 22.1 18.9 19.4 16.3 16.8 19.2 19.5 16.4 18.5 17.1 14.0 12.9 15.7	MAY 10.5 11.1 12.6 14.5 15.5 15.5 14.4 12.2 11.0 13.0 14.1 12.3 10.6 11.7 12.2 13.7 11.8 11.5 11.7 12.4	13.1 14.7 16.4 17.9 18.5 16.9 14.0 13.7 15.9 16.3 14.3 13.0 14.0 15.2 15.2 12.5 12.1 13.1
DAY 1 2 3 4 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18 19 20 21 22 23 24	3.7 4.9 5.6 6.0 6.7 7.1 6.9 6.0 5.8 4.55 6.5 9.3 8.7 7.7,7 7.1 9.3 8.4 9.2	FEBRUARY .0 .1 1.2 1.7 2.4 2.7 3.8 3.7 3.5 3.3 4.2 9 4.3 4.6 4.5 2.9 2.4 3.0 5.0 4.7 4.5	MEAN 1.5 2.3 3.8 4.5 4.6 4.7 4.8 4.8 4.0 4.6 4.9 5.7 6.6 6.5 6.0 5.8 4.7 7.1 6.0 6.7 7.1 6.7	9.5 7.5 10.3 11.7 10.6 9.9 9.4 9.2 9.3 8.0 9.9 10.3 11.4 9.1 9.5 10.9 10.4 8.6 8.4 6.3 11.6 13.3 14.3	MARCH 5.3 6.09 5.4 6.3 5.18 5.7 5.4 5.3 7 5.4.5 3.7 5.4.5 3.7 5.3 4.5 5.1 3.8 4.2 4.8 8.3 8.9 8.6 9.0	7.3 6.6 7.3 8.4 8.2 7.4 7.1 6.7 6.7 6.8 8.3 7.4 6.1 7.5 8.3 7.6 6.8 9.8	10.9 10.7 11.7 14.1 15.9 15.5 14.8 11.9 15.1 16.5 16.8 13.7 14.9 16.5 17.3 14.1 16.5	APRIL 4.4 4.8 4.9 5.3 8.9 10.1 9.4 7.6 8.8 10.3 9.2 7.2 9.9 9.7 6.8 9.3 10.3 8.3 9.8 10.9 10.7 11.2	7.4 7.6 7.9 9.5 12.2 12.7 11.6 10.6 12.4 12.5 10.9 11.0 13.1 11.1 10.8 12.8 13.7 11.5 12.2	16.3 18.6 20.3 21.9 22.1 18.9 19.4 16.3 16.8 19.2 19.5 16.4 18.5 17.1 14.0 12.9 15.7 14.9	MAY 10.5 11.1 12.6 14.5 15.5 15.5 14.4 12.2 11.0 13.0 14.1 12.3 10.6 11.7 12.2 13.7 11.8 11.5 10.6 11.7	13.1 14.7 16.4 17.9 18.5 16.5 14.0 13.7 15.9 16.3 14.3 13.0 14.0 15.2 15.2 12.5 12.1 12.7 13.1

07097000 ARKANSAS RIVER AT PORTLAND, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1 2 3 4 5	17.0 17.3 17.4 17.3 17.9	14.9 14.7 14.4 14.5 14.8	16.0 15.8 15.8 15.9 16.2	23.9 23.9 22.7 24.0 24.4	18.6 18.6 19.3 17.8 18.2	20.7 21.0 20.5 20.7 21.0	24.3 23.5 23.7 23.7 24.6	19.0 19.3 19.0 19.2 19.5	21.4 21.2 21.2 21.4 21.7	23.6 22.2 19.5 22.7 24.3	18.3 17.5 16.8 15.6 17.5	20.7 20.0 18.2 19.3 20.9
6 7 8 9 10	17.6 18.6 18.9 19.1 18.4	15.0 15.2 16.1 16.7 15.4	16.2 16.9 17.4 17.6 16.9	24.9 24.6 23.8 24.0 23.7	19.0 19.7 18.5 19.5	21.6 21.6 20.9 21.5 21.5	24.8 24.8 24.7 24.5 24.7	19.2 19.2 18.8 18.4 19.3	21.6 21.7 21.5 21.1 21.7	21.8 22.7 20.6 22.0 22.4	18.4 16.7 16.1 15.7 15.8	20.0 19.3 18.5 18.8 19.1
11 12 13 14 15	18.8 18.8 19.0 19.8 21.0	15.6 14.8 15.6 15.7 16.2	16.8 16.7 17.1 17.5 18.3	24.8 24.0 24.7 24.1 25.2	19.7 20.2 19.2 19.7 20.1	22.0 21.8 21.5 21.5 22.1	24.2 22.5 24.3 25.1 25.0	19.5 19.3 17.9 19.0 19.5	21.6 20.7 20.8 21.7 21.6	23.0 22.4 22.7 22.5 23.6	16.0 15.9 15.8 16.2 16.1	19.5 19.6 19.2 19.4 19.6
16 17 18 19 20	19.6 17.3 18.8 19.8 21.6	15.9 14.8 14.8 15.6 16.5	17.4 15.8 16.5 17.6 18.8	22.1 23.1 24.1 24.3 25.4	19.5 19.3 19.4 19.6 19.9	20.8 21.0 21.4 21.7 22.2	23.5 22.7 23.9 24.4 24.5	19.4 18.8 18.8 18.8 18.9	21.0 20.6 21.0 21.6 21.6	23.5 23.1 21.8 22.1 17.5	16.8 16.5 16.8 15.9 13.8	19.7 19.2 19.2 18.7 15.6
21 22 23 24 25	20.8 21.7 20.6 20.3 21.1	16.7 17.2 16.6 16.9	18.6 19.1 18.2 18.6	24.2 24.9 25.5 23.4 24.6	19.9 19.9 19.2 18.7 18.5	21.7 22.0 22.1 21.0 21.1	24.4 25.4 24.2 24.7 25.5	18.3 18.8 18.9 18.6 18.7	21.2 21.6 21.6 21.4 21.6	18.8 16.8 14.4 12.9 16.0	11.9 14.2 11.7 9.7 8.6	15.5 15.5 13.1 11.1 12.2
26 27 28 29 30 31	18.2 19.2 19.9 21.3 22.5	16.1 15.7 17.4 17.6 18.1	17.2 17.3 18.5 19.3 20.0	22.8 22.6 23.1 23.3 23.1 24.7	18.7 19.2 18.6 18.5 19.2	20.8 20.8 20.7 20.9 21.2 21.7	24.2 26.0 25.2 24.2 22.3	19.0 18.3 18.6 17.4 18.3	21.1 21.6 22.1 20.3	17.7 18.3 18.7 18.2 20.3	10.8 11.8 12.5 13.9 14.4	14.3 15.2 15.7 15.9 17.3
MONTH	22.5			25.5	17.8	21.3				24.3	8.6	17.7

07099050 BEAVER CREEK ABOVE UPPER BEAVER CEMETERY, NEAR PENROSE, CO

LOCATION.--Lat $38^\circ33^\circ42^\circ$, long $105^\circ01^\circ17^\circ$, in $NW^1/_4NE^1/_4$ 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 records only). 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 fair except for estimated daily discharges, which are poor. Natural flow of stream 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 (seasonal only).--Maximum discharge, 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 (seasonal only).--Maximum discharge, 146 $\rm ft^3/s$ at 0100 May 11, gage height, 3.86 $\rm ft$; minimum daily, 8.4 $\rm ft^3/s$, Mar. 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAILY MEAN VALUES DAY OCT MOM DEC TAN FEB MAR APR MAY TITIN TITT. ATTG SEP e34 9 0 e34 8.7 e34 ------8.9 17 2.4 2.2 e33 9.2 e33 9.2 7 9.1 e30 8.6 e27 ___ ___ ___ 8.8 ------e24 8.4 e20 8.9 12 12 ---9.0 20 26 14 16 12 ___ 9.1 ---------8.7 74 70 ---------9.8 2.4 ---9.7 ---___ ___ 9.3 9.0 2.2 ---------___ 9.9 74 2.4 25 ---12 20 15 21 32 ---64 28 25 15 65 95 15 ___ ___ ___ ___ ---___ ___ ------TOTAL 319.4 ------27.7 34 ___ ___ 45.3 74 17.7 MEAN 10.3 89.3 37.6 19.4 14.7 ------------MTN 8.4 AC-FT

e Estimated.

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07099060 BEAVER CREEK ABOVE HIGHWAY 115, NEAR PENROSE, CO

LOCATION.--Lat $38^{\circ}29^{\circ}21^{\circ}$, long $104^{\circ}59^{\circ}49^{\circ}$, in $NE^{1}/_{4}NE^{1}/_{4}$ 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 State Highway 115, and 4.7 mi north of Penrose.

DRAINAGE AREA.--138 mi².

PERIOD OF RECORD.--March 1991 to current year (seasonal records only).

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 stream 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 (seasonal only).--Maximum discharge, 727 ${\rm ft^3/s}$, April 30, 1999, gage height 6.92 ft, from rating curve extended above 422 ${\rm ft^3/s}$; no flow many days.

EXTREMES FOR CURRENT YEAr (seasonal only).--Maximum discharge, 111 ft3/s at 0530 May 11, gage height, 4.00 ft; no flow many days.

		DISCHARGE	, CUBIC	FEET PER		WATER YEA Y MEAN VAL		1999 TO) SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	5.1 5.2 5.3 5.0 4.8	1.2 .80 1.4 .30 .27	 	 	 	e5.0 e5.0 e5.0 e5.0 e5.0	10 12 14 17 11	21 19 20 21 22	47 49 46 42 35	.48 .88 .39 .03	.00 .00 .00 .00	.02 .02 .00 .01
6 7 8 9 10	5.0 11 3.8 1.9 .67	.30 .30 .26 .22	 	 	 	e5.0 e5.0 e5.0 e5.0 e5.0	e14 e14 e13 e14 e15	38 41 60 55 78	30 22 18 6.7 .90	.00 .00 .42 1.0	.00 .00 .00 .00	.00 .00 .00 .00
11 12 13 14 15	.71 .61 .49 .47	.30 .35 .35 .35	 	 	 	e5.0 e5.0 e5.0 e5.0	e14 e10 e15 17 28	84 49 41 40 39	.75 .37 .32 .48 .66	1.0 .95 1.2 1.1	.00 .00 .00 .00	.00 .00 .00 .00
16 17 18 19 20	.52 .60 3.3 11	.38	 	 	 	e5.0 e5.0 e5.0 e5.0	18 23 34 31 17	35 35 37 45 41	.49 .17 .49 .48	1.1 1.2 .95 .57	.37 .60 .72 .80	.00 .00 .00 .00
21 22 23 24 25	10 9.7 9.5 9.3 9.3	 	 	 	 	e5.0 e5.4 e6.0 e6.0 e6.4	20 19 18 22 22	33 25 25 46 70	.00 .00 .00 .00	.00 .00 .00 .00	.56 .65 .41 .04	.00 .00 .00 .00
26 27 28 29 30 31	9.3 8.4 1.9 1.7 1.2	 	 	 	 e4.9 	e7.3 e8.0 e8.0 e8.0 e8.0 e8.0	18 19 21 23 24	63 54 51 59 61 46	3.8 17 12 1.7 .24	.00 .00 .00 .00	.01 .02 .00 .01 .38	.00 .00 .00 .00
TOTAL MEAN MAX MIN AC-FT	148.53 4.79 11 .36 295	 	 	 	 	176.1 5.68 8.0 5.0 349	547 18.2 34 10 1080	1354 43.7 84 19 2690	335.78 11.2 49 .00 666	13.51 .44 1.2 .00 27	5.17 .17 .80 .00	0.06 .002 .02 .00

e Estimated

07099200 ARKANSAS RIVER NEAR PORTLAND, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $38^{\circ}20^{\circ}14^{\circ}$, long $104^{\circ}56;18^{\circ}$, in $NW^{1}/_{4}$, SW $^{1}/_{4}$ sec.6, T.20 S., R.67 W., Fremont County, Hydrologic Unit 11020002, on right bank at Hobson Ranch, 1.4 mi downstream from Willow Creek and 5.4 mi southeast of Portland.

DRAINAGE AREA.--4,280 mi²

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

REMARKS.--Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)
APR 14 MAY	1200	396	596	8.4	12.7	9.6	.206	.012	.038
18 JUN	1310	e1370	305	8.2	13.0	8.8	.158	.004	.019
28 SEP 08	0900 1030	e1340 262	257 645	8.3 8.7	18.0 19.8	8.4 11.6	.064	.004	.012

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07099215 TURKEY CREEK NEAR FOUNTAIN, CO

LOCATION.--Lat $38^\circ 36^\circ 42^\circ$, $\log 104^\circ 53^\circ 39^\circ$, in $NW^1/_4SE^1/_4$ sec.33, T.16 S., R.67 W., El Paso County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, on left 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.

AC-FT

PERIOD OF RECORD.--May 1978 to September 1989, May 1995 to September 1998, April 1999 to current year (seasonal records only). 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.--No estimated daily discharges. Records fair. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report. Natural flow of stream affected by upstream diversions for irrigation and livestock.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 850 ft³/s, June 10, 1997, from slope-area measurement of peak flow, gage height 6.56 ft, from floodmarks; no flow many days most years.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 13.0 ft³/s at 1900 Aug. 17, gage height, 1.04 ft; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAILY MEAN VALUES DAY OCT MOM DEC TAN FEB MAR APR MAY TITIN TITT. ATTG SEP 86 75 0.4 0.0 0.0 21 .80 .69 .02 .00 .00 .14 3 ------___ ---------. 80 .57 .00 .00 .00 .12 .49 .86 .00 .00 .00 .11 5 ------1.2 .42 .00 .00 .00 .10 1.7 6 7 .37 .00 .00 .00 .09 1.8 .32 .00 .00 .00 .05 8 ___ ___ ___ ___ ___ 1.4 1.2 .00 .00 .00 .05 ---------------___ 1.5 1.7 1.3 .00 .00 .00 .03 10 1.3 .00 .00 .00 .00 11 12 ---------------1.5 .87 .72 ___ .00 .00 .00 .00 ---13 1.4 .66 .00 .00 .00 .00 ___ ___ ---------14 1.5 .61 .00 .00 .00 .00 15 ___ .53 .00 .00 .02 .00 .00 .00 16 .43 .00 .00 1.2 1.3 1.3 .45 .54 17 ___ ---------------.00 .00 .97 .00 ------18 .00 .00 2.5 .00 ___ ___ ___ ___ 19 .60 .00 .00 .18 .00 20 .54 .00 .00 .00 .00 21 1.1 .40 .00 .00 .00 .00 2.2 ------------------1.2 . 29 .00 .00 .00 .00 23 1.2 .21 .00 .00 .00 .00 24 25 ---1.2 .18 .00 .00 .00 ---------___ ---.00 26 .91 .19 .00 .00 .02 .00 27 28 .84 .14 .00 .01 ___ ___ ___ ___ ___ ___ .00 .00 ---------.00 .00 29 .77 .10 . 00 .00 .46 .00 ___ ___ ___ ------.78 .08 30 ---.00 .00 .26 .00 31 .06 .00 .18 TOTAL 35.84 15.31 0.06 0.00 4.62 0.90 ------------___ ___ MEAN 1.19 .49 .002 .000 .15 .030 2.5 ------------------.00 1.8 1.3 .21 MAX MTN .77 .06 .00 .00 .00 .00

71

30

.00

.1

9.2

1.8

07099230 TURKEY CREEK ABOVE TELLER RESERVOIR, NEAR STONE CITY, CO

LOCATION.--Lat $38^\circ27^\circ54^\circ$, long $104^\circ49^\circ33^\circ$, in $SW^1/_4SW^1/_4$ 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.--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 5,520 ft above sea level, from topographic map. Prior to July 20, 1989, at site 0.6 mi downstream at different datum.

REMARKS.--Record fair except for estimated daily discharges, which are poor. Natural flow of stream affected by 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.

		DISCHAR	GE, CUBIC	C FEET PER		WATER YEA	AR OCTOBER LUES	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e3.0 e3.0 e3.0 e3.0 e3.0	2.8 2.9 3.0 3.1 3.3	3.1 3.1 3.2 3.2 3.2	2.8 2.8 2.6 2.4 2.7	2.1 2.2 2.0 1.9	1.8 2.2 2.0 1.9 1.9	2.2 2.2 2.3 2.2 2.0	2.0 e1.9 e1.9 e1.9 e1.9	e.98 e.97 e.95 e.95 e.90	.53 .48 .48 .46	.32 .33 .33 .32	.00 .00 .00 .00
6 7 8 9 10	e3.0 e3.1 3.2 3.2 3.2	3.5 3.4 3.3 3.2 3.2	3.1 3.1 3.1 3.1 3.2	2.5 2.4 2.6 2.4 2.3	1.9 1.9 1.9 1.9	1.9 2.1 2.2 2.0 2.0		e1.8 e1.8 e1.8 e2.6 2.3	e.90 e.85 e.82 e.80 e.80	.47 .48 .47 .47	.30 .28 .22 .18 .20	.00 .00 .00 .00
11 12 13 14 15	3.1 2.9 2.6 2.5 2.5	3.1 3.1 3.1 3.1 3.1	3.1 3.1 3.1 3.0 3.0	2.3 2.2 2.2 2.4 2.3	1.9 2.0 1.9 1.9	2.0 2.0 2.1 2.1 2.4	2.7 2.6 2.1 1.9 2.2	2.3 2.5 2.6 2.5 2.4	e.78 e.75 .75 .74 .70	.43 .40 .40 .39	.19 .15 .11 .06	.00 .00 .00 .00
16 17 18 19 20	2.7 2.9 3.0 3.0 2.7	3.1 3.1 3.0 3.0 3.1	3.0 2.9 2.9 2.9 2.9	2.3 2.3 2.3 2.2 2.1	2.0 2.2 2.2 2.1 2.1	2.7 2.7 2.6 2.6 2.5	2.4 2.4 2.3 2.1 2.0	2.1 2.1 2.2 2.0 2.0	.72 .71 .70 .68	.44 .95 .42 .39	.00 .00 .00 .00	.00 .00 .00 .00
21 22 23 24 25	2.5 2.3 2.2 2.2 2.2	3.1 3.3 3.2 3.2 3.3	2.8 2.9 2.8 2.8 2.8	2.2 2.1 2.1 2.1 2.0	2.1 2.0 1.6 1.6	2.5 2.6 2.8 2.8 2.2	2.0 2.0 2.3 2.3 2.1	1.9 1.7 1.5 1.2	.64 .61 .50 .32	.37 .36 .35 .34	.00 .00 .00 .00	.00 .00 .00 .00
26 27 28 29 30 31	2.3 2.3 2.4 2.7 2.8 2.8	3.1 3.1 3.1 3.1 3.1	2.8 2.8 2.8 2.7 2.7	e2.0 e1.9 e1.9 e1.9 e1.9 e2.0	1.7 1.7 1.8 1.7	2.3 2.2 2.1 2.1 2.1 2.4	1.8 1.8 1.8 2.0	1.1 1.1 1.1 1.0 1.0 e.99	.58 .57 .55 .55 .53	.32 .33 .33 .34 .35	.00 .00 .07 .11 .00	.00 .00 .00 .00
TOTAL MEAN MAX MIN AC-FT	85.3 2.75 3.2 2.2 169	94.1 3.14 3.5 2.8 187	91.9 2.96 3.2 2.7 182	70.2 2.26 2.8 1.9 139	55.7 1.92 2.2 1.6 110	69.8 2.25 2.8 1.8 138	65.4 2.18 2.7 1.8 130	56.49 1.82 2.6 .99 112	21.56 .72 .98 .32 43	13.14 .42 .95 .32 26	3.50 .11 .33 .00 6.9	0.00 .000 .00 .00
STATIST	CICS OF MO	NTHLY MEAN	N DATA FO	OR WATER Y		- 2000,	BY WATER	YEAR (WY				
MEAN MAX (WY) MIN (WY)	2.79 44.6 1985 .000 1979	1.96 26.7 1985 .000 1979	1.00 6.47 1985 .000 1979	.78 2.69 1985 .000 1979	.74 2.58 1985 .000 1979	.75 2.75 1985 .000 1979	2.75 21.8 1999 .000 1979	17.7 124 1999 .000 1979	10.7 60.1 1997 .000 1989	2.97 17.1 1985 .000 1978	7.03 79.2 1999 .000 1990	1.56 18.1 1982 .000 1978
SUMMARY	STATISTI	CS	FOR 1	1999 CALEN	DAR YEAR	F	OR 2000 WA	TER YEAR		WATER YE	ARS 1978	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN AN IN MINIMUM AK FLOW ACK STAGE CC-FT) DS			Aug 5 Feb 4 Feb 6		.00 7.1	Nov 6 Aug 16 Aug 16 Jul 17 Jul 17		4.34 21.2 .00 836 a.00 b3640 c11.51 3140 6.3 .50	00 Aug 0 May 1 0 May 1 Aug 2 L Aug 2	1999 1991 5 1999 8 1978 8 1978 20 1982 20 1982

e Estimated.

No flow many days during most years. From rating curve extended above 95 $\rm ft^3/s$ on basis of slope-area measurements at gage heights 7.64 ft and 11.27 ft, site and datum then in use. Maximum gage height, 11.88 ft, June 8, 1987, site and datum then in use.

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07099233 TELLER RESERVOIR NEAR STONE CITY, CO

LOCATION.--Lat $38^{\circ}26^{\circ}33^{\circ}$, long $104^{\circ}49^{\circ}31^{\circ}$, in $SE^{1}/_{4}NW^{1}/_{4}$ 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 poor. Reservoir is formed by an earthfill dam completed around 1908. Reservoir area-capacity table from 1980 survey. Total capacity, 2,620 acre-ft, at elevation 92 ft. Elevation of high crest of spillway, about 84 ft since 1996, with capacity of 1,130 acre-ft. Elevation of uncontrolled tower outlet invert is about 88 ft, with capacity of 1,780 acre-ft. There is a controlled outlet from reservoir, however considerable leakage occurs along dam margins.

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.

EXTREMES (at 2400) FOR CURRENT YEAR.--Maximum contents, 1,120 acre-ft, Nov. 8-28, maximum elevation, 83.93 ft, Nov. 27; minimum contents, 281 acre-ft, Sept. 30, elevation, 75.19 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY OBSERVATION AT 2400 HOURS												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1030	1110	1080	567	544	518	537	525	480	426	381	337
2	1030	1110	1060	562	542	526	540	526	479	422	379	337
3	1040	1110	1050	557	544	527	540	524	477	420	376	335
4	1040	1110	1030	551	544	527	540	523	475	417	374	332
5	1040	1110	1010	547	547	526	536	518	474	415	372	330
6	1050	1110	997	545	543	525	533	516	471	412	371	327
7	1050	1110	982	544	544	530	532	513	470	409	367	326
8	1050	1120	964	544	544	529	530	519	467	406	365	323
9	1050	1120	948	543	542	527	532	520	465	403	363	321
10	1060	1120	929	541	542	527	530	519	463	401	360	318
11	1060	1120	904	545	540	526	532	516	460	397	359	315
12	1060	1120	878	542	542	526	530	512	458	395	358	313
13	1060	1120	858	543	541	526	529	512	456	394	357	313
14	1060	1120	835	544	540	526	529	511	453	390	354	310
15	1070	1120	815	545	538	534	527	511	450	388	353	308
16	1070	1120	795	544	540	540	527	509	447	388	348	305
17	1080	1120	774	544	536	543	527	507	445	414	352	303
18	1090	1120	749	542	537	543	526	508	445	412	352	302
19	1090	1120	725	544	538	542	524	508	442	410	350	300
20	1090	1120	702	545	535	541	523	508	440	408	349	297
21	1100	1120	679	540	536	541	521	506	439	406	350	295
22	1100	1120	658	541	534	545	520	504	435	404	347	295
23	1100	1120	643	544	535	544	523	502	433	403	348	295
24	1100	1120	628	542	537	542	521	501	432	401	346	295
25	1100	1120	615	542	524	540	523	501	431	398	341	294
26 27 28 29 30 31	1100 1100 1110 1110 1110 1110	1120 1120 1120 1110 1090	604 592 585 578 574 567	541 543 550 544 537 541	523 523 521 519 	537 534 533 534 533 537	521 520 521 525 525	496 495 492 489 485 484	433 433 431 431 427	395 394 390 388 386 383	340 337 345 342 341 339	292 289 286 285 281
TOTAL	33310	33490	24808	16904	15575	16529	15844	15760	13542	12475	11016	9259
MEAN	1070	1120	800	545	537	533	528	508	451	402	355	309
MAX	1110	1120	1080	567	547	545	540	526	480	426	381	337
MIN	1030	1090	567	537	519	518	520	484	427	383	337	281

CAL YR 1999 TOTAL 371184 MEAN 1020 MAX 1640 MIN 567 WTR YR 2000 TOTAL 218512 MEAN 597 MAX 1120 MIN 281

07099235 TURKEY CREEK NEAR STONE CITY, CO

LOCATION (REVISED).--Lat $38^{\circ}25'56"$, long $104^{\circ}49'58"$, in $SE^{1}/_{4}SE^{1}/_{4}$ sec.36, T.18 S., R.67 W., Pueblo County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, on left bank, 1.1 mi downstream from Teller Reservoir Dam, on military road 14, 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 crest-stage gage. Elevation of gage is 5,350 ft above sea level, from topographic map. Prior to June 12, 1987, at site 1.0 mi upstream at different datum. June 12, 1987 to Dec. 6, 1989, at site 0.6 mi upstream at different datum. Dec. 7, 1989 to Dec. 9, 1999, at site 0.9 mi upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream mostly regulated by Teller Reservoir 1.1 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.

		DISCHA	RGE, CUBI	C FEET PER	R SECOND, DAILY	WATER YE MEAN VA	AR OCTOBER	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e.80 e.80 e.80 e.80	e.86 e.86 e.86 e.86	e13 e13 e12 e12 e12	6.6 6.5 6.2 6.0 5.9	4.4 4.2 4.3 4.4	2.1 2.3 2.7 2.8 2.8	3.4 3.2 3.3 3.1 3.0	3.0 3.1 2.9 2.9 2.9	1.0 .94 .92 .88	.02 .02 .06 .06	.22 .00 .13 .31	.06 .07 .08 .09
6 7 8 9 10	e.81 e.81 e.81 e.81	e.86 e.86 e.86 e.86		5.9 5.7 5.7 5.6 5.5	4.3 4.3 4.2 4.2	2.7 2.8 3.2 3.2 3.2	2.8 2.8 2.7 2.7 2.7	2.7 2.5 2.6 2.8 2.7	.86 .85 .85 .84	.10 .10 .01 .03 .40	.00 .00 .00 .22	.09 .10 .12 .12
11 12 13 14 15	e.82	e.86 e.87 e.87 e.87 e.87	13 12 12 12 12	5.4 5.3 5.2 5.1 5.1	4.2 4.1 4.0 3.9 3.8	3.1 3.2 3.3 3.3 3.5	2.8 2.8 2.7 2.7 2.6	2.5 2.4 2.2 2.2 2.1	.76 .74 .70 .75	.34 .21 .08 .01	.11 .11 .09 .06	.12 .13 .14 .14
16 17 18 19 20	e.83 e.83 e.84 e.85 e.86	e.87 e.88 e.89 e.87 e.87	11 12 12 12 12	5.1 5.1 5.1 5.1 4.9	3.7 3.6 3.6 3.5 3.3	4.2 4.4 4.6 4.6 4.7	2.7 2.8 2.7 2.6 2.5	2.0 1.9 1.9 1.9	.19 .47 .17 .01	.00 .09 .02 .44 .03	.07 .06 .16 .08	.15 .16 .17 .18 .19
23 24 25	e.86 e.86 e.86 e.86	e.87 e.88 e.89 e.89	11 10 9.9 9.5 9.4	4.7 4.7 4.7 4.6 4.6	3.3 3.3 3.3 3.1 3.0	4.3 4.1 4.5 4.2 4.1	2.5 2.6 2.4 2.6 2.5	1.7 1.8 1.7 1.6 1.7	.18 .09 .08 .08	.00 .00 .00 .00	.07 .07 .05 .03	.21 .22 .24 .25 .23
29	e.86 e.86 e.86 e.86 e.86	e.90 e.90 e.90 e7.2 e13	8.9 8.3 7.9 7.5 7.1 6.8	4.6 4.7 4.7 4.7 4.6 4.5	2.8 2.6 2.6 2.4 	3.8 3.8 3.7 3.4 3.5 3.6	2.5 2.6 2.7 2.6 2.9	1.7 1.6 1.4 1.3 1.2	.11 .06 .09 .13 .56	.00 .03 .02 .01 .00	.01 .06 .10 .13 .04	. 23 . 22 . 23 . 23 . 23
MAX MIN AC-FT	51	89	665	322	212	218	82.5 2.75 3.4 2.4 164	131	29	2.47 .080 .44 .00 4.9	2.50 .081 .31 .00 5.0	4.76 .16 .25 .06 9.4
							BY WATER Y				0.5	
MEAN MAX (WY) MIN (WY)	.38 1.64 1983 .010 1992	.39 1.57 1983 .010 1992	.88 10.8 2000 .010 1992	.55 5.23 2000 .010 1979	.49 3.69 2000 .010 1979	.48 3.54 2000 .015 1992	.45 2.75 2000 .015 1979	1.45 8.37 1995 .011 1979	2.46 20.3 1995 .010 1978	1.11 9.78 1995 .010 1991	.85 4.43 1995 .010 1991	.63 3.03 1995 .010 1991
SUMMARY	Y STATIST	rics	FOR	1999 CALEN	IDAR YEAR	F	OR 2000 WAT	TER YEAR		WATER YE	ARS 1978	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC	MEAN F ANNUAL ANNUAL F DAILY ME SEVEN-DA FANEOUS F FANEOUS F	MEAN MEAN AY MINIMUM PEAK FLOW PEAK STAGE (AC-FT) EEDS		725.46 1.99 45 .29 .30 1440 7.1	May 1 Feb 6 Feb 22		957.64 2.62 13 .00 .04 a15 4.07 1900 6.1 1.2	Nov 30 Jul 15 Jul 26 Dec 10 Dec 10		.85 3.93 .02 70 .00 .01 b83 c6.29 616 1.7	May 3 Sep 1 May 3 May 3 May 3	1995 1979 31 1995 31 1989 31 1978 30 1995 30 1995
	CENT EXCE			.34			.06			.02		

From rating curve extended above 14 $\rm ft^3/s$. b From rating curve extended above 62 $\rm ft^3/s$. c At site and datum then in use.

07099350 PUEBLO RESERVOIR NEAR PUEBLO, CO

LOCATION.--Lat $38^{\circ}16^{\circ}15^{\circ}$, long $104^{\circ}43^{\circ}30^{\circ}$, in $NE^{1}/_{4}$ 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.--Water-stage recorder. Datum of gage is 4,898.70 ft above sea level, (levels by U.S. Bureau of Reclamation); gage readings at 2400 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 (AT 2400) FOR CURRENT YEAR.--Maximum contents, 279,480 acre-ft, Mar. 15, elevation, 4,885.26 ft; minimum contents, 160,520 acre-ft, Sept. 22, elevation, 4,855.95 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	4.876.69	239,900	_
Oct. 31	4,876.80	240,370	+470
Nov. 30	4,877.93	245,350	+4,980
Dec. 31	4,879.48	252,320	+6,970
CAL YR 1999	=	=	+74,620
Jan. 31	4,881.07	259,630	+7,310
Feb. 29	4,884.50	275,820	+16,190
Mar. 31	4,884.34	275,050	-770
Apr. 30	4,879.26	251,320	-23,730
May 31	4,878.90	249,690	-1,630
June 30	4,877.17	241,990	-7,700
July 31	4,868.38	205,650	-36,340
Aug. 31	4,857.91	167,160	-38,490
Sept. 30	4,856.06	160,890	-6,270
WTR YR 2000	-	-	-79,010

PUEBLO RESERVOIR NEAR PUEBLO, CO--Continued WATER-QUALITY RECORDS

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 $38^{\circ}17^{\circ}54^{\circ}$, long $104^{\circ}50^{\circ}40^{\circ}$, in $SW^{1}/_{4}NW^{1}/_{4}$, 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		SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	(STAND- ARD UNITS)	ATURE WATER (DEG C)		DIS- SOLVED (MG/L)
MAY							
11	1155					.90	
11	1156	.10	393	8.3			7.0
11	1157	3.00	393	8.3	15.7		7.0
11 11	1158 1159	6.00 9.00	394 395	8.3 8.3	15.6 15.4		6.9 6.8
11	1200	12.0	399	8.3	15.4		6.4
11	1201	15.0	409	8.2	14.5		6.2
11	1202	18.0	484	8.2	13.3		5.6
11	1203	21.0	503	8.1	12.5		4.5
11	1204	23.0	557	8.0	12.0		4.3
JUN							
14	1315					.80	
14	1316	.10	219	8.2	20.3		7.2
14 14	1317 1318	3.00 6.00	219 219	8.2 8.2	20.1 19.7		7.1 7.0
14	1310	9.00	219	8.2	18.9		6.9
14	1320	12.0	219	8.1	18.8		6.9
14	1321	15.0	219	8.1	18.5		6.9
14	1322	18.0	218	8.1	17.4		7.0
14	1323	21.0	218	8.1	16.6		6.9
14	1324	23.0	217	8.1	16.2		7.1
AUG							
15	1250			_==		.30	
15	1251	.10	444	7.7			5.3
15 15	1252 1253	3.00 6.00	457 429	7.7 7.7	22.3 21.7		5.2 5.2
15	1253	7.00	431	7.7	21.7		5.2
±J	1234	7.00	-21	/ • /	21.0		J. Z

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PUEBLO RESERVOIR NEAR PUEBLO, CO--Continued WATER-QUALITY RECORDS

381725104494400 PUEBLO RESERVOIR SITE 3B

LOCATION.—-Lat $38^{\circ}17^{\circ}25^{\circ}$, long $104^{\circ}49^{\circ}44^{\circ}$, 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 11	1125					.90	
11 11 11 11 11 11 11 11 11 11	1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138	.10 3.00 6.00 9.00 12.0 15.0 18.0 21.0 24.0 27.0 30.0 33.0 36.0 37.0	413 414 417 424 432 460 489 550 559 566 563 561 560	8.4 8.4 8.4 8.3 8.3 8.3 8.2 8.2 8.2 8.1 8.1	15.9 15.9 15.8 15.7 15.6 15.3 14.3 13.3 11.1 10.9 10.8 10.7		7.4 7.4 7.4 7.3 7.3 7.2 6.9 6.4 5.7 5.8 6.1 6.1
JUN						90	
14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14	1230 1231 1232 1233 1234 1235 1236 1237 1238 1239 1240 1241 1242 1243	 .10 3.00 6.00 9.00 12.0 15.0 21.0 24.0 27.0 30.0 33.0 36.0 37.0	224 225 224 223 223 223 223 225 228 228 228 223 221 219 220	8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.1 8.1	20.3 20.3 20.2 19.9 19.6 19.6 19.6 19.6 19.6 19.6 19.7 18.5 18.0	.90	7.4 7.4 7.2 7.0 7.0 6.9 6.9 6.7 6.4 6.5 6.3
15 15 15 15 15 15 15 15	1235 1236 1237 1238 1239 1240 1241 1242 1243	.10 3.00 6.00 9.00 12.0 15.0 18.0 21.0 22.0	404 409 417 423 429 444 456 445	8.3 8.1 8.1 8.0 7.9 7.8 7.7 7.6	23.7 23.3 23.2 23.1 23.1 22.9 22.4 21.7 21.7	.60 	6.3 5.8 5.7 5.5 5.3 4.8 4.4 4.5
20 20 20 20 20 20	1400 1401 1402 1403 1404 1405 1406	 .10 3.00 6.00 9.00 12.0 13.0	511 514 528 562 654 667	8.2 8.2 8.2 8.2 7.9 7.9	20.1 20.1 19.9 19.4 16.8 15.9	.50 	7.4 7.3 7.0 6.7 6.3 6.5

PUEBLO RESERVOIR NEAR PUEBLO, CO--Continued WATER-QUALITY RECORDS

381647104475300 PUEBLO RESERVOIR SITE 4B

LOCATION.--Lat $38^{\circ}16^{\circ}47^{\circ}$, long $104^{\circ}47^{\circ}53^{\circ}$, in $NW^{1}/_{4}SE^{1}/_{4}$, 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							
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11	1100 1101 1103 1105 1107 1109 1111 1113 1115 1117 1119 1121 1123		543 543 529 528 546 546 546 546 545 545	8.5 8.5 8.5 8.5 8.4 8.3 8.3 8.3 8.3 8.3	15.9 15.8 15.2 14.3 11.0 10.5 10.4 10.2 9.9 9.9	2.70	8.3 8.2 8.2 8.0 7.7 7.8 7.8 7.7 7.6 7.6
14 14 14 14 14 14 14 14 14 14 14 14 14 14	1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130		295 295 287 298 310 305 248 236 405 430 453 458	8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	20.1 20.0 19.6 19.7 19.7 19.6 18.3 17.7 15.7 15.7 15.0 14.9	2.10	7.2 7.2 7.0 7.0 7.0 6.9 6.1 5.6 5.6 5.6
15 15 15 15 15 15 15 15 15 15	1200 1201 1202 1203 1204 1205 1206 1207 1208 1209	 .10 6.00 12.0 18.0 24.0 30.0 36.0 42.0 48.0	381 380 381 381 383 383 388 390 398	8.3 8.3 8.2 8.1 7.7 7.6 7.6 7.6	24.2 23.7 23.5 23.4 23.1 22.9 22.7 22.6 22.2	1.50 	5.9 6.1 5.7 5.2 3.2 2.4 2.3 2.2 2.6
20 20 20 20 20 20 20 20	1310 1311 1312 1313 1314 1315 1316 1317 1318	 .10 6.00 12.0 18.0 24.0 30.0 36.0 40.0	 445 445 445 445 447 450 454	7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.8	21.0 21.0 21.0 21.0 20.9 20.8 20.8 20.7	.60 	6.0 5.9 5.9 5.8 5.9 6.0 6.1 5.3

PUEBLO RESERVOIR NEAR PUEBLO, CO--Continued WATER-QUALITY RECORDS

381559104465500 PUEBLO RESERVOIR SITE 5C

LOCATION.--Lat $38^{\circ}15^{\circ}59^{\circ}$, long $104^{\circ}46^{\circ}55^{\circ}$, in $SW^{1/}_{4}NE^{1/}_{4}$, 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)
MAY 11	1040 1041 1042 1043 1044 1045 1046 1047 1050 1051 1052 1053 1055 1056 1057 1058 1059 1100 1101 1102 1103 1104 1105	 .10 3.00 6.00 9.00 12.0 15.0 21.0 24.0 27.0 30.0 33.0 36.0 39.0 45.0 45.0 45.0 54.0 57.0 60.0 63.0 66.0	515 516 527 530 539 542 541 547 552 549 550 551 551 548 549 549 549 549 549 549 549 549 549 549		14.7 14.5 14.1 13.8 13.7 13.7 13.6 13.6 13.3 13.1 13.0 12.9 12.1 11.8 11.0 11.1 10.5 10.3 10.1 10.0 9.8 9.7 9.7	2.40	8.1 8.1 8.1 8.0 8.0 8.0 8.0 7.9 7.7 7.7 7.7 7.5 7.5 7.5 7.4 7.4 7.4
14 14	1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110	10 3.00 6.00 9.00 12.0 15.0 18.0 21.0 24.0 27.0 30.0 33.0 36.0 39.0 45.0 48.0 551.0 54.0 57.0 60.0 63.0 66.0 69.0 70.0	357 357 353 326 331 333 337 357 366 372 360 330 288 304 302 316 319 349 355 386 412 416 451 487 485	8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	20.5 20.5 20.3 20.0 19.9 19.9 19.9 19.8 19.8 19.6 18.8 18.4 18.7 16.9 16.7 16.4 16.3 15.6 15.5 15.5	2.70	7.3 7.3 7.2 7.1 7.1 7.0 6.9 6.2 6.1 5.6 5.6 5.6 5.6 5.6 5.6 5.5 5.2
15 15	1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135	10 3.00 6.00 9.00 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 54.0	380 379 379 379 379 379 378 378 378 378 381 381 387 387 387 387	8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	24.1 24.0 23.8 23.7 23.7 23.6 23.6 23.6 23.5 23.5 23.4 23.3 22.7 22.6 22.5 22.4 22.3	2.10	5.9 6.0 5.9 5.8 5.7 5.7 5.7 5.7 5.7 4.5 4.5 2.1 1.5 1.9 7

PUEBLO RESERVOIR NEAR PUEBLO, CO--Continued

381559104465500 PUEBLO RESERVOIR SITE 5C--Continued

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)		TEMPER- ATURE WATER (DEG C) (00010)	DISK) (M)	OXYGEN, DIS- SOLVED (MG/L) (00300)
SEP							
20	1230					.90	
20	1231	.10	431	7.8	21.1		5.9
20	1232	3.00	431	7.8	21.1		5.9
20	1233	6.00	431	7.8	21.1		5.9
20	1234	9.00	431	7.8	21.1		5.8
20	1235	12.0	431	7.8	21.1		5.8
20	1236	15.0	431	7.8	21.1		5.8
20	1237	18.0	431	7.8	21.1		5.8
20	1238	21.0	431	7.8	21.1		5.8
20	1239	24.0	431	7.8	21.1		5.8
20	1240	27.0	431	7.8	21.1		5.8
20	1241	30.0	431	7.8	21.1		5.8
20	1242	33.0	431	7.8	21.1		5.8
20	1243	36.0	431	7.8	21.1		5.8
20	1244	39.0	431	7.8	21.0		5.8
20	1245	42.0	431	7.8	21.0		5.8
20	1246	45.0	431	7.8	21.0		5.8
20	1247	48.0	431	7.8	21.0		5.9
20	1248	51.0	431	7.8	21.0		5.9
20	1249	52.0	431	7.8	21.0		5.8

arkansas river basin 185

PUEBLO RESERVOIR NEAR PUEBLO, CO--Continued WATER-QUALITY RECORDS

381548104453300 PUEBLO RESERVOIR SITE 6C

LOCATION.--Lat $38^{\circ}15^{\circ}48^{\circ}$, long $104^{\circ}45^{\circ}33^{\circ}$, in $NE^{1}/_{4}$ $SE^{1}/_{4}$, 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.

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 11	0955 0956 0957 0958 0959 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1011	 .10 6.00 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	550 548 548 548 548 548 548 548 547 547 547 545 544 544 543	 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.4 8.4 8.4	14.5 13.7 13.5 13.4 13.0 12.8 12.7 12.6 11.8 11.5 10.4 10.9 9.8 9.7 9.5 9.4	5.80 	8.0 8.1 8.0 8.0 7.9 7.9 8.0 7.9 7.5 7.5 7.5 7.5
14 14	1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021		377 377 380 389 392 382 365 342 352 388 443 498 509 495 509 528	8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.1 8.1 8.0 8.0 8.0	20.3 20.1 20.0 19.9 19.8 19.5 19.3 17.5 17.2 16.8 15.9 15.8 14.5 14.3 14.0 13.8	4.30	7.2 7.2 7.1 7.0 6.9 6.0 6.0 6.0 6.0 6.1 6.4 5.7 5.6 5.6
AUG 15	1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045		378 377 377 377 377 377 377 382 387 389 388 389 388 389 388	8.4 8.4 8.4 8.4 8.4 7.9 7.6 7.5 7.5 7.5	23.9 23.9 23.8 23.8 23.7 23.7 23.7 23.1 22.5 22.2 21.9 21.8 21.6 21.0 20.7	2.70	6.2 6.3 6.3 6.2 6.2 6.2 4.0 2.0 1.3 .4 .3
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153		428 428 428 428 428 429 429 429 429 429 429 429 429 430	7.9 7.9 7.9 7.9 7.9 7.8 7.8 7.8 7.8 7.8 7.8	21.1 21.1 21.1 21.1 21.1 21.1 21.1 21.1	1.20	5.9 5.9 5.9 5.9 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8

PUEBLO RESERVOIR NEAR PUEBLO, CO--Continued WATER-QUALITY RECORDS

381602104435200 PUEBLO RESERVOIR SITE 7B

LOCATION.--Lat $38^{\circ}16^{\circ}02^{\circ}$, long $104^{\circ}43^{\circ}52^{\circ}$, 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 11	0915					5.80	
11 11	0916 0917	.10 3.00	553 553	8.2 8.2	15.2 14.9		8.2 8.2
11	0918	6.00	553	8.3	14.8		8.1
11	0919	9.00	553	8.3	14.7		8.1
11 11	0920 0921	12.0 15.0	553 554	8.3 8.2	14.7 14.6		8.1 8.1
11	0921	18.0	552	8.2	14.5		8.1
11	0923	21.0	552	8.3	14.5		8.1
11	0924	24.0	552	8.3	14.4		8.0
11	0925	27.0	552 552	8.3	14.3		8.0
11 11	0926 0927	30.0 33.0	552 552	8.3 8.3	14.3 14.2		8.0 8.0
11	0928	36.0	552	8.3	14.1		8.0
11	0929	39.0	551	8.3	14.0		8.0
11	0930 0931	42.0 45.0	551 551	8.3 8.3	13.8 13.5		8.0 8.0
11 11	0931	48.0	551	8.3	13.5		8.0
11	0933	51.0	550	8.3	13.2		8.0
11	0934	54.0	549	8.3	12.9		7.9
11 11	0935 0936	57.0 60.0	549 544	8.3 8.3	12.5 10.5		7.9 8.0
11	0936	63.0	544	8.3	10.5		8.0
11	0938	66.0	543	8.3	10.3		8.0
11	0939	69.0	543	8.3	10.1		7.9
11	0940	72.0	542	8.3 8.2	10.0		7.9 7.9
11 11	0941 0942	75.0 78.0	541 541	8.2	10.0 9.8		7.9 8.0
11	0943	81.0	540	8.2	9.7		7.9
11	0944	84.0	540	8.2	9.6		7.9
11	0945	87.0	541	8.2	9.5		7.8
11 11	0946 0947	90.0 93.0	540 540	8.2 8.2	9.5 9.4		7.8 7.8
11	0948	96.0	541	8.2	9.4		7.7
11	0949	99.0	540	8.2	9.4		7.7
11	0950	102	541	8.2	9.3		7.7
11 11	0951 0952	105 108	541 540	8.2 8.2	9.3 9.2		7.6 7.5
11	0953	111	540	8.2	9.2		7.4
11	0954	114	541	8.2	9.2		7.3
11	0955	117	541	8.2	9.1		7.1
11	0956	120	541	8.2	9.1		6.9
11	0957	122	541	8.2	9.1		6.8

PUEBLO RESERVOIR NEAR PUEBLO, CO--Continued

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)
JUN							
14	0915					4.00	
14	0916	.10	401	8.0	19.7		7.0
14 14	0917	3.00 6.00	401 401	8.0 8.0	19.7 19.6		7.0 7.0
14	0918 0919	9.00	401	8.0	19.5		7.0
14	0920	12.0	404	8.0	19.4		6.9
14	0921	15.0	406	8.0	19.2		6.8
14	0922	18.0	408	8.0	19.1		6.8
14	0923	21.0	407	8.0	19.1		6.8
14	0924	24.0	406	8.0	19.0		6.8
14	0925	27.0	407	8.0	19.0		6.8
14	0926	30.0	407	8.1	19.0		6.7
14	0927	33.0	410	8.1	18.8		6.7
14	0928	36.0	404	8.1	18.5		6.6
14	0929	39.0	401	8.1	18.4		6.5
14 14	0930 0931	42.0 45.0	400 403	8.1 8.1	18.4 18.6		6.5 6.5
14	0931	48.0	403	8.1	18.2		6.4
14	0933	51.0	394	8.1	17.8		6.3
14	0934	54.0	394	8.0	17.3		6.1
14	0935	57.0	392	8.0	17.1		6.1
14	0936	60.0	408	8.0	16.9		6.1
14	0937	63.0	426	8.0	16.6		6.2
14	0938	66.0	470	8.0	16.4		6.3
14	0939	69.0	488	7.9	16.1		6.3
14	0940	72.0	508	7.9	15.7		6.4
14	0941	75.0	513	7.9	15.5		6.4
14	0942	78.0	522	7.9	15.2		6.3
14 14	0943 0944	81.0 84.0	526 528	7.9 7.9	14.7 14.4		6.2 6.1
14	0944	87.0	527	7.9	13.7		5.9
14	0946	90.0	530	7.9	13.5		5.8
14	0947	93.0	539	7.9	12.7		5.7
14	0948	96.0	544	7.9	12.4		5.6
14	0949	99.0	545	7.9	12.3		5.5
14	0950	102	547	7.9	12.1		5.2
14	0951	105	548	7.9	11.9		5.2
14	0952	108	548	7.9	11.9		5.2
14	0953	111	548	7.9	11.9		5.2
14	0954	114	549	7.9	11.9		5.1
14	0955	117	551	7.9	11.7		4.9
14	0956 0957	120 122	553 553	7.8 7.8	11.4 11.3		4.3 4.1
14	095/	122	553	7.8	11.3		4.1

PUEBLO RESERVOIR NEAR PUEBLO, CO--Continued

381602104435200 PUEBLO RESERVOIR SITE 7B--Continued

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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 15	0940 0941 0942 0943 0944 0945 0946 0947 0948 0950 0951 0955 0956 0957 0958 0959 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1011 1012 1013 1014 1015 1016 1017		376 376 376 376 376 376 376 376 376 376	8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	23.6 23.6 23.6 23.6 23.6 23.6 23.6 23.6	3.40	6.4 6.4 6.3 6.3 6.3 6.3 6.3 6.3 6.2 6.2 6.2 6.3 6.2 6.2 1.9 1.0 9.7 6.5 .4 .4 .4 .3 .3 .2 .2 .1 .1
20	1030 1031 1032 1033 1034 1035 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1100 1101 1102 1103 1104		430 429 429 429 429 429 429 429 429 429 429	7.7 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	21. 2 21. 2	1.50	- 6 6 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

07099400 ARKANSAS RIVER ABOVE PUEBLO, CO

LOCATION.--Lat $38^{\circ}16^{\circ}18^{\circ}$, long $104^{\circ}43^{\circ}03^{\circ}$, in $NE^{1}/_{4}NE^{1}/_{4}$ (revised) 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.--October 1965 to current year. 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 fair. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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

		DISCHA	RGE, CUBI	C FEET PE		MATER Y. MEAN V.	EAR OCTOBER ALUES	1999 10	SEPTEMBI	£R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	302 306 335 348 320	345 385 419 418 420	362 362 363 362 363	e377 e377 377 377 e370	e171 e83 e83 e83 e83	289 314 329 328 327	749 898 899 895 896	641 774 494 309 307	2810 2910 2820 2750 2690	528 472 633 941 1330	1100 999 1000 1010	208 247 239 222 399
6 7 8 9 10	278 270 301 319 342	420 420 420 379 329	389 429 430 366 306	378 379 379 377 377	82 83 83 139 187	327 328 328 328 329	831 822 857 855 885	497 763 893 1080 1180	2560 2300 2040 1830 1610	1270 1170 1310 1430 1380	1040 1100 924 793 899	451 452 450 451 411
11 12 13 14 15	353 354 355 324 279	301 300 301 285 245	275 276 252 227 225	377 378 379 379 379	187 187 187 187 186	328 329 329 404 459	902 897 1730 2250 930	979 779 955 955 916	1500 1300 1340 1650 1590	1290 1170 1030 1220 1180	936 916 991 1130 1080	350 223 164 164 135
16 17 18 19 20	250 283 302 340 411	246 245 245 245 246	226 196 173 173 173	380 380 380 380 380	187 188 188 188 187	640 815 816 815 814	402 491 582 551 495	836 745 1020 1320 1330	1340 1310 1420 1440 1350	1180 1380 1600 1630 1240	1080 1080 1100 1070 1070	102 93 92 92 92
21 22 23 24 25	411 413 366 334 333	249 250 251 251 251	174 174 174 174 175	380 380 381 381 361	187 154 131 131 131	634 423 401 449 478	410 361 361 409 442	1090 941 961 1150 1880	1280 1250 1250 1220 1180	912 826 854 857 848	968 907 838 778 748	92 92 92 92 102
26 27 28 29 30 31	310 294 295 325 343 344	251 252 253 255 315	175 229 279 310 355 e377	300 282 265 232 232 231	131 203 281 294 	495 576 627 626 628 552	497 502 432 300 392	2520 2570 1920 1780 2340 2650	976 820 779 581 582	935 1070 1160 1230 1270 1210	747 818 782 658 451 230	111 110 116 150 159
TOTAL MEAN MAX MIN AC-FT	10140 327 413 250 20110	9192 306 420 245 18230	8524 275 430 173 16910	10985 354 381 231 21790	4591 158 294 82 9110	14865 480 816 289 29480	21923 731 2250 300 43480	36575 1180 2650 307 72550	48478 1616 2910 581 96160	34556 1115 1630 472 68540	28253 911 1130 230 56040	6153 205 452 92 12200
STATIS	TICS OF M	ONTHLY ME	AN DATA F	OR WATER	YEARS 1975	- 2000	, BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	361 1103 1985 121 1979	260 505 1985 77.0 1979	163 553 1987 58.8 1980	177 558 1985 55.6 1980	215 837 1985 55.9 1979	327 718 1985 81.1 1978	606 1389 1985 125 1978	1180 2564 1984 374 1978	2408 4219 1980 645 1977	1674 4110 1995 428 1977	1055 2716 1984 200 1977	468 1040 1982 118 1977
	Y STATIST	ICS	FOR		NDAR YEAR		FOR 2000 WA	TER YEAR		WATER Y	EARS 1975	- 2000
LOWEST HIGHES' LOWEST ANNUAL INSTAN' INSTAN' ANNUAL 10 PERC		EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS	1	280912 770 4060 100 100 557200 1930 381 104	Jun 26 Jan 1 Jan 1		234235 640 2910 82 83 5380 6.90 464600 1310 387 174	Jun 2 Feb 5 Feb 2 Apr 13 Apr 13		a743 1227 265 b5910 c47 49 d10100 f9.4 538300 1840 401 90	Jun Jan Jan Aug 0 Aug	1984 1977 23 1997 10 1980 10 1980 1 1966 1 1966

Estimated.

Average discharge for 8 years (water years 1966-73), 643 ft³/s; 465900 acre-ft/yr, prior to completion of Pueblo Dam.

Also the maximum daily discharge for period of record.

Minimum daily discharge for period of record, 28 ft³/s, May 11, 1967.

Present site and datum, from rating curve extended above 1600 ft³/s, on basis of slope-area measurement of peak flow. From floodmarks.

07099400 ARKANSAS RIVER ABOVE PUEBLO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1965 to September 1970, 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. Instantaneous discharge and selected water-quality data collected as part of a basin-wide water-quality assessment of the lower Arkansas River basin in Colorado are published elsewhere in this report.

EXTREMES FOR PERIOD OF DAILY 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.

SPECIFIC CONDUCTANCE: Maximum, 621 microsiemens, Apr. 15; minimum, 379 microsiemens, July 25. WATER TEMPERATURE: Maximum, 22.5° C, Sept. 16; minimum, 3.5° C, Jan. 30 to Feb. 1.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DE	CEMBER			JANUARY	
1	466	448	455	514	497	506	537	527	534	563	525	550
2	465	456	461	503	482	492	542	532	537	554	523	542
3	465	458	460	507	476	485	547	537	541	565	528	550
4	463	455	459	494	479	486	543	513	526	542	525	534
5	465	456	459	510	479	491	527	512	518	542	527	535
6	470	456	463	503	487	497	517	503	510	542	522	531
7	470	457	463	510	490	498	519	508	513	537	530	533
8	463	454	459	502	487	495	518	514	516	538	526	533
9	463	457	460	506	492	499	518	508	514	536	521	525
10	465	453	459	513	499	506	520	506	512	539	520	528
11	468	457	463	514	504	508	521	514	519	544	527	536
12	475	465	470	510	498	504	528	520	524	538	522	529
13	484	474	479	512	500	505	540	528	534	535	526	531
14	482	465	474	525	506	513	540	515	525	534	527	531
15	493	465	478	520	511	515	518	515	516	540	528	532
16	489	469	478	519	510	514	517	513	515	536	529	532
17	473	455	462	523	506	514	523	513	518	539	529	532
18	466	458	460	518	484	499	522	518	519	541	530	536
19	475	457	462	506	485	496	520	517	519	543	526	533
20	485	470	478	504	488	497	520	516	519	538	532	535
21	492	479	486	501	487	494	520	517	518	541	530	535
22	501	487	494	509	495	502	520	516	518	543	530	536
23	514	494	500	508	492	500	525	517	520	543	531	537
24	509	494	499	510	498	506	533	518	524	543	533	537
25	510	498	502	513	494	504	538	522	531	554	534	539
26 27 28 29 30 31	513 513 517 509 499 509	500 495 503 498 483 486	505 502 507 504 491 497	500 511 511 523 530	495 495 505 510 515	497 501 508 518 522	545 546 543 550 560 562	537 531 526 532 528 545	541 541 538 542 542 555	542 538 547 548 544 541	531 531 531 533 534 534	536 533 536 538 539 537
MONTH	517	448	477	530	476	502	562	503	526	565	520	535

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07099400 ARKANSAS RIVER ABOVE PUEBLO, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN MAX MIN

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	587 590 582 603 600	530 554 560 574 580	552 569 570 586 586	545 549 548 554 555	541 541 543 544 542	544 545 545 548 546	556 551 552 552 554	542 548 548 549 550	548 549 550 551 552	568 566 579 573 571	561 563 564 567 566	564 564 571 570 569
6 7 8 9 10	590 594 595 571 549	573 570 567 531 538	581 581 580 551 543	552 551 556 552 560	543 545 544 546 549	548 549 547 549 552	555 555 555 555 555	551 552 553 553 552	553 553 554 554 554	571 567 567 572 568	562 562 565 564 566	566 565 566 566 567
11 12 13 14 15	566 560 559 552 549	549 546 542 541 543	557 555 551 545 546	557 556 556 554 568	549 550 549 540 551	552 553 552 548 560	555 555 557 550 621	552 553 548 549 549	553 554 551 549 569	577 585 572 573 573	567 567 569 570 570	571 574 571 572 572
16 17 18 19 20	546 547 556 557 556	541 541 545 547 551	543 544 551 550 553	565 552 557 562 563	538 544 550 554 556	549 549 554 557 560	566 562 564 566 568	560 553 555 558 563	563 558 558 563 566	574 576 576 569 570	571 571 565 566 567	573 573 569 568 568
21 22 23 24 25	555 581 567 568 574	544 550 558 558 561	550 561 562 561 565	619 582 574 562 564	558 569 557 550 556	574 574 566 558 559	570 568 569 569 571	564 564 563 564 565	567 565 565 566 567	578 572 572 570 567	568 569 567 563 563	571 570 569 567 565
26 27 28 29 30 31	566 562 542 546 	560 534 538 541 	563 549 540 542 	559 558 552 551 552 563	552 546 549 548 549 544	556 551 550 550 551 555	569 570 573 576 570	562 564 567 568 562	565 567 569 570 566	565 564 566 566 565 564	562 561 562 562 561 561	564 563 564 564 562 562
MONTH	603	530	558	619	538	553	621	542	559	585	561	568
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE			JULY	MEAN		MIN AUGUST	MEAN	:	SEPTEMBE	
DAY 1 2 3 4 5 6 7 8 9 10	MAX 563 562 563 563 563 562 560 560 557	JUNE 560 559 561 560 560	562 561 562 561 562	509 503 502 475 452 447 445 445 428	JULY 483 490 467 442 435	494 496 482 459 444		385 386 384 383 385 383 382 383 388	387 388 386 386 386		413 409 413 415 410	417 414 416 420 415
1 2 3 4 5 6 7 8	563 562 563 563 563 562 560 560	JUNE 560 559 561 560 560 557 556 557 553 551	562 561 562 561 562 560 558 558 556 555	509 503 502 475 452 447 445 445 428	JULY 483 490 467 442 435 430 420 416 414 411	494 496 482 459 444 438 434 427 422 417	389 389 388 389 388 389 386 394 390	385 386 384 383 385	387 388 386 386 386 384 388 389 387	420 421 420 424 424 422 421 430 430 429	413 409 413 415 410 412 415 422 422 422 422	417 414 416 420 415 417 424 427 424 427
1 2 3 4 5 6 7 8 9 10	563 562 563 563 563 560 560 560 557 555 555 551 550	JUNE 560 559 561 560 560 557 556 557 553 551	562 561 562 561 562 560 558 558 556 555	509 503 502 475 452 447 445 445 428 425	JULY 483 490 467 442 435 430 420 416 414 411 407 406 410 395 402	494 496 482 459 444 438 434 427 422 417	389 389 388 389 388 389 386 394 390 388	385 386 384 383 385 383 382 383 384 386 387 386	387 388 386 386 386 384 389 387 389 389 389	420 421 420 424 422 421 430 430 429 433 434 448 446 458	413 409 413 415 410 412 415 422 422 422	417 414 416 420 415 417 424 427 424 427
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	563 563 563 563 560 560 560 557 552 551 552 552 543 533	JUNE 560 559 561 560 560 557 556 557 553 551 548 543 542 541 536 533 533 519 510	562 561 562 561 562 558 558 558 558 555 555 548 546 541 539 536 525 521	509 503 502 475 452 447 445 428 425 426 422 420 417 411 407 403 395 393	JULY 483 490 467 442 435 430 420 416 411 407 406 410 395 402 398 390 389 384	494 496 482 459 444 438 434 427 422 417 416 407 406 402 396 392 388	389 389 388 389 388 389 386 394 390 388 392 392 392 391 393	385 386 384 383 385 383 382 383 382 383 384 386 387 386 387 386 389 391 391	387 388 386 386 386 384 388 389 387 389 389 389 391 392 394 395	420 421 420 424 422 421 430 430 429 433 434 448 446 458 486 504 488 491 484	### SEPTEMBE #13 #409 #13 #15 #10 #12 #15 #22 #22 #22 #22 #23 #26 #36 #36 #36 #36 #36 #463 #466 #469	417 414 416 420 415 417 424 427 424 427 424 427 424 427 427 42
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	563 562 563 563 563 560 560 5507 5552 551 552 552 543 533 535 535 524 520 517	JUNE 560 559 561 560 560 557 556 557 553 551 548 543 542 541 536 533 519 510 506 505 506 492 483	562 561 562 561 562 558 558 555 553 548 548 548 541 539 536 521 516	509 503 502 475 452 447 445 428 425 426 422 420 417 411 407 403 395 406	JULY 483 490 467 442 435 430 420 416 414 411 407 406 410 395 402 398 390 389 384 386 396 392 392 392 380	494 496 482 459 444 438 434 427 422 417 416 407 406 402 396 399 398 396 399 397 394 388	389 389 388 389 388 389 386 394 390 388 392 392 391 393 395 395 396 400 406 407 407	385 386 384 383 385 383 382 383 384 386 387 386 387 386 389 391 391 391 393 394	387 388 386 386 386 384 388 389 389 389 389 389 391 394 394 395 396 400 401 403 405	420 421 420 424 422 421 430 430 429 433 434 448 446 458 486 504 488 491 485 489 489 490 482	### SEPTEMBE ### 413 ### 413 ### 415 ### 410 ### 412 ### 422 ### 422 ### 422 ### 423 ### 424 ### 424 ### 425 ### 426 ### 436	417 414 416 420 415 417 424 427 424 427 424 427 424 427 424 427 427

07099400 ARKANSAS RIVER ABOVE PUEBLO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

				WAIER (DEG.			OCTOBER 13					
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO				ECEMBER			JANUARY	
1 2	18.3 17.7	17.1 17.1	17.7 17.3	14.0 13.8	13.3 13.2	13.6 13.4	9.4 9.3	8.8	9.1 9.0	5.5 5.7		4.9 5.1
3 4	17.6 17.7	17.0 17.0	17.2 17.2	13.7 13.7	13.0 13.0	13.3 13.2	9.0 9.4 9.3	8.7 8.7	8.8 8.9	5.1 5.4	4.6 4.7	4.8 4.9
5	17.6	16.8	17.1	13.5	12.8	13.1	9.3	8.8	8.9	5.3	4.8	5.0
6 7	17.3 17.0		16.9 16.6	13.3 13.1	12.6 12.5	12.9 12.7	9.3 9.0	8.7	8.9 8.7	5.3 5.2	4.7 4.6	4.9 4.8
8	17.0	16.3 16.2	16.5	13.1	12.4	12.6	8.6	8.5 8.5 8.1	8.6	5.2	4.6	4.8
9 10	17.0 16.9		16.5 16.5	12.8 12.6	12.1 11.9	12.5 12.1	8.7 8.4	8.1 8.0	8.4 8.2	5.1 5.0	4.4 4.4	4.6 4.6
11	16.9	16.1	16.4	12.6	11.9	12.1	8.2	7.5	7.9	4.9	4.4	4.6
12 13	16.7 16.6	16.1	16.3 16.2	12.5 12.4	11.8 11.7	12.0 12.0	8.0 7.6	7.3 7.1	7.5 7.2	5.1 4.9	4.4	4.7 4.6
14	16.7	16.0	16.3	12.2	11.6	11.8	7.6	6.9	7.2	4.8	4.2	4.5
15	16.6	15.8	16.1	12.2	11.5	11.8	7.3	6.7	6.9	4.8	4.3	4.5
16 17	16.0 16.2		15.8 15.8	12.1 12.1	11.4 11.4	11.7 11.6	7.4 7.2	6.7 6.7	7.0 6.9	4.8 4.9	4.3 4.3	4.4 4.5
18 19	16.1 15.9	15.4	15.6 15.4	12.2 12.0	11.3 11.3	11.6 11.5	7.2 7.1	6.5	6.7	4.9 5.0		4.5 4.6
20	15.4		15.4	11.8	11.3	11.4	6.6	6.1	6.6 6.3	4.8	4.3	4.4
21	15.0		14.6	11.7	11.2	11.3	6.4	6.0	6.1	4.8	4.2	4.5
22 23	14.7 14.6	14.0 13.8	14.3 14.1	$\frac{11.4}{11.4}$	11.0 10.8	11.2 11.0	6.4 6.6	5.8 5.7	6.1 6.0	4.8 4.7	4.2	4.5 4.4
24 25	14.5 14.4	13.7	14.0 13.9	11.1 10.9	10.4	10.7	6.6 6.4	5.5	5.9 5.7	4.6	4.1	4.3
26 27	14.4 14.3	13.6 13.5	13.9 13.8	11.0 10.9	10.4 10.2	10.6 10.4	5.9 5.7	5.0 5.0	5.4 5.2	4.6 4.3	3.9 4.0	4.1 4.1
28 29	14.2 14.0	13.5 13.6	13.8 13.7	10.6 9.9	10.4 10.2 9.9 9.3	10.2 9.7	5.8 5.7	4.9 4.8	5.2 5.1	4.3 4.4	3.9 3.6	4.1 4.0
30	14.2	13.5	13.8	2.0	٥. ٥	9.4	5.6	4.7	5.1	4.3	3.5	3.8
31	14.2	13.5	13.7				5.3	4.6	4.8	4.3	3.5	3.8
MONTH	18.3	13.5	15.5	14.0	9.2	11.7	9.4	4.6	7.0	5.7	3.5	4.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY		1	MARCH			APRIL			MAY	
1	4.5	3.5	3.8	5.1	4.4	4.6	6.3	5.8	6.0	9.7	9.4	9.5
2	5.3 5.5	3.6 3.7	4.2 4.4	4.5 5.1	4.3	4.5 4.5	6.9 6.5	5.9 6.0	6.4 6.2	9.9 10.3	9.3 9.4	9.5 9.7
4 5	5.5 5.5	3.7 3.6	4.3	5.1 5.1	4.4	4.6 4.7	7.3 7.6	6.1 6.6	6.7 7.1	10.4 10.3	9.4 9.4	9.7 9.7
6	5.6	3.6	4.3	5.3	4.6	4.9	7.4	6.9	7.2	9.8	9.3	9.5
7	5.7	3.6	4.3	5.5	4.7	5.0	7.7	6.9	7.1	10.0	9.3	9.6
8 9	5.3 4.4	3.6 3.9	4.3 4.1	5.3 5.5	4.7 4.8	5.0 5.0	7.3 7.5	6.9 6.8	7.1 7.1	9.8 10.2	9.4 9.5	9.6 9.8
10	4.4	3.8	4.0	5.5	4.8	5.0	7.4	7.0	7.1	10.2	9.5	9.8
11 12	4.0	3.9 3.8	3.9 4.0	5.5 5.4	4.8	5.0 5.0	7.4 7.4	6.9 7.0	7.2 7.2	10.5 10.3	9.5 9.5	9.8 9.9
13	4.5	3.8	4.0	5.5 5.5	4.7	5.0	7.6	6.9	7.2	10.2	9.7	9.9
14 15	4.7 5.0	3.6 3.8	4.1 4.2	5.5	4.7	5.0 5.0	7.4 7.9	7.0 7.0	7.2 7.3	10.4 10.5	9.6 9.7	10.0 10.0
16	4.7	3.8	4.1	5.3	4.8	5.0	8.0	7.1	7.5	10.1	9.7	9.8
17 18	4.7	3.9 3.8	4.1 4.1	5.3 5.5	4.9 5.0	5.1 5.2	8.1 9.8	7.2 7.3	7.5 8.2	11.4 11.5	9.6 10.1	10.2 10.9
19	4.7	3.7	4.1	5.7	5.3	5.4	9.8	8.0	9.1	11.4	10.8	11.1
20	4.6	3.8	4.1	5.6	5.3	5.4	9.6	8.7	9.1	11.4	10.6	11.0
21 22	5.0 5.0	3.8 4.0	4.2	5.7 5.5	5.3 5.4	5.5 5.4	9.6 9.5	8.6 8.7	8.9 8.9	11.9 11.9	10.9 10.8	$\frac{11.2}{11.2}$
23 24	5.4 5.5	4.0	4.6 4.5	6.1 6.3	5.3 5.4	5.6 5.8	9.6 9.8	8.9 8.8	9.1 9.2	12.0 11.8	11.0 10.9	11.4 11.2
25	5.2	3.8	4.3	6.4	5.7	5.9	9.7	8.9	9.2	11.6	11.1	11.4
26	5.3	3.7	4.3	6.5	5.6	5.8	9.6	9.0	9.2	12.0	11.1	11.5
27 28	5.2 4.9	3.8 4.0	4.3	6.2 6.1	5.6 5.6	5.8 5.8	9.8 9.7	9.0 8.9	9.3 9.1	12.0 12.2	11.3 11.5	11.7 11.9
29 30	5.2	4.4	4.7	6.2 5.8	5.6 5.6	5.8 5.7	10.0 9.7	9.0 8.9	9.3 9.2	12.2 12.2	11.3 11.5	11.8 11.9
31				5.9	5.6	5.7				12.4	11.8	12.1
MONTH	5.7	3.5	4.2	6.5	4.3	5.2	10.0	5.8	7.9	12.4	9.3	10.5

07099400 ARKANSAS RIVER ABOVE PUEBLO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1 2 3 4 5	12.6 12.7 12.6 13.0 12.9	11.9 12.0 12.1 12.3 12.2	12.2 12.3 12.3 12.5 12.6	15.8 15.5 15.7 16.2 16.7	14.3 14.6 14.5 15.2 15.7	15.0 14.9 15.2 15.8 16.2	19.4 19.6 19.6 19.8 19.9	18.8 18.9 18.9 19.0 19.2	19.1 19.1 19.2 19.3 19.4	21.4 21.5 21.1 21.7 22.0	20.6 20.4 20.7 20.6 20.8	20.9 20.9 20.8 21.0 21.3
6 7 8 9 10	13.0 13.1 13.3 13.4 13.5	12.2 12.5 12.5 12.3 12.7	12.7 12.9 12.9 12.9 13.2	16.8 16.9 17.2 17.2	16.1 16.2 16.1 16.6 16.7	16.4 16.6 16.7 16.9 17.1	19.8 20.2 20.2 20.2 20.4	19.0 19.1 19.4 19.4 19.6	19.5 19.7 19.7 19.8 19.9	21.9 22.0 22.0 22.1 22.2	21.2 21.2 21.3 21.4 21.3	21.5 21.6 21.7 21.6
11 12 13 14 15	13.4 13.6 13.5 13.6 14.0	12.8 12.9 12.8 12.9 12.7	13.0 13.2 13.2 13.3 13.6	17.5 17.6 17.6 18.0 17.8	16.6 17.1 17.1 17.0 17.4	17.2 17.3 17.3 17.4 17.6	20.4 20.5 20.5 20.8 21.0	19.7 19.8 19.8 20.0 20.2	20.0 20.1 20.1 20.3 20.5	22.1 22.1 22.2 21.9 22.2	21.2 21.1 20.9 20.8 20.7	21.6 21.5 21.4 21.2 21.2
16 17 18 19 20	14.1 13.9 14.2 14.9 14.9	12.7 13.2 13.7 13.4 13.5	13.7 13.6 13.9 14.2 14.4	17.9 18.3 18.3 18.6 18.4	17.3 17.6 17.8 17.8 17.7	17.6 17.9 18.0 18.2 18.1	20.9 21.0 21.1 21.5 21.5	20.2 20.4 20.5 20.5 20.6	20.5 20.7 20.8 20.9 21.0	22.5 21.8 22.1 22.2 21.2	20.6 20.5 20.4 20.3 20.0	21.2 21.0 21.0 20.9 20.4
21 22 23 24 25	14.8 14.8 15.3 15.5 15.6	14.0 14.1 14.1 14.1 14.4	14.4 14.5 14.7 14.9 14.9	18.6 18.8 18.7 19.3 19.2	17.7 17.9 17.9 18.1 18.3	18.1 18.1 18.2 18.5 18.7	21.4 21.5 21.5 21.6 21.7	20.7 20.7 20.8 20.8 21.0	21.0 21.1 21.1 21.1 21.3	21.8 20.4 19.7 20.2 20.1	19.9 19.6 19.1 18.8 18.4	20.6 20.1 19.5 19.2 19.1
26 27 28 29 30 31	15.2 15.4 15.6 15.4 15.7	14.6 14.4 14.4 14.4	14.9 14.8 14.9 14.8 15.0	19.1 19.0 19.1 19.1 19.2 19.3	18.1 18.3 18.7 18.6 18.8	18.5 18.5 18.7 18.8 18.9	21.8 21.8 22.0 22.1 22.0 21.3	20.8 21.1 21.0 21.1 20.5 20.5	21.3 21.4 21.4 21.5 21.2 20.8	19.5 19.2 18.9 18.9	18.0 17.7 17.6 17.6	18.6 18.2 18.0 18.1 18.2
MONTH	15.7	11.9	13.7	19.3	14.3	17.5	22.1	18.8	20.4	22.5	17.6	20.5

07099969 ARKANSAS RIVER AT ST. CHARLES MESA DIVERSION AT PUEBLO, CO

WATER-OUALITY RECORDS

LOCATION.--Lat $38^{\circ}15^{\circ}13^{\circ}$, long $104^{\circ}36^{\circ}20^{\circ}$, in $SW^{1}/_{4}NW^{1}/_{4}$ 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 fair. 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 have been 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.

SPECIFIC CONDUCTANCE: Maximum, 936 microsiemens, Sept. 19; minimum, 298 microsiemens, July 17.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	OVEMBER		DE	CEMBER			JANUARY	
1	659	623	642	667	655	662	684	677	679	727	677	688
2	663	638	654	668	627	651	686	675	681	688	666	672
3	653	629	642	639	619	627	688	668	680	676	664	670
4	640	631	636	633	620	626	688	666	676	667	652	659
5	654	635	644	630	617	625	668	659	665	665	659	662
6	678	643	658	636	628	633	667	645	661	664	649	658
7	693	650	677	641	630	634	646	634	641	662	645	652
8	670	647	660	643	633	637	645	632	639	660	653	656
9	660	645	653	658	626	640	666	628	641	667	654	658
10	656	633	648	681	655	661	670	661	665	669	655	662
11	647	627	640	691	680	686	686	670	683	659	652	654
12	646	634	641	687	679	684	688	679	685	664	653	657
13	651	641	646	688	680	684	711	685	692	657	651	654
14	660	646	653	689	680	686	723	711	715	653	649	651
15	669	645	661	716	685	707	712	692	699	659	653	656
16	696	660	686	715	699	706	705	693	700	660	652	655
17	678	641	660	710	687	700	707	670	692	662	654	657
18	692	633	652	726	691	710	691	678	686	659	655	657
19	652	607	640	691	669	676	694	688	691	666	653	659
20	627	621	624	694	678	684	695	688	692	658	655	656
21	638	621	630	697	675	685	692	675	684	659	652	654
22	640	627	636	696	681	688	689	673	682	660	649	657
23	663	635	645	691	675	682	687	677	681	657	652	655
24	677	663	669	696	679	688	686	683	685	659	650	653
25	683	667	673	691	682	687	694	683	688	665	657	660
26 27 28 29 30 31	680 694 692 696 671 667	666 676 677 659 645 649	676 685 683 681 657 658	694 688 688 694 701	675 669 675 684 677	684 677 684 690 693	698 722 703 705 698 688	691 696 686 688 675 674	695 703 694 699 684 682	703 707 716 708 710 718	662 674 684 686 682 685	672 689 694 702 695 697
MONTH	696	607	655	726	617	673	723	628	682	727	645	665

ARKANSAS RIVER BASIN

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07099969 ARKANSAS RIVER AT ST. CHARLES MESA DIVERSION AT PUEBLO, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

							•					
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	711 823 834 825 826	688 698 805 805 819	699 753 817 820 822	644 671 679 685 694	627 550 580 633 635	635 616 636 646 666	627 593 591 594 596	582 584 585 586 588	610 587 589 590 592	657 659 706 736 737	623 627 628 681 671	646 648 658 704 692
6 7 8 9 10	836 837 821 829 665	823 811 812 665 642	828 825 816 789 645	696 698 667 647 642	638 375 422 631 633	668 606 640 641 638	611 616 602 604 604	594 600 594 595 593	600 606 599 600 600	709 646 630 624 607	637 612 512 598 595	681 634 608 612 601
11 12 13 14 15	656 662 661 658 654	611	652 652 648 652 648	641 640 636 639 622	626 624 628 609 433	635 634 633 625 580	601 602 602 552 669	593 591 544 548 548	598 596 578 550 604	634 644 627 624 629	600 625 615 617 621	611 634 623 622 625
16 17 18 19 20	656 653 650 647 647	045	646 648 645 634 643	605 589 589 589 589	518 578 564 585 575	584 583 579 587 584	670 652 636 642 649	650 634 624 629 618	659 646 630 633 637	632 644 651 607	627 630 604 588 593	630 637 629 599 599
21 22 23 24 25	652 705 703 707 705	643 643 674 680 683	647 662 692 698 694	617 620 631 632 623	581 476 611 613 615	592 602 626 625 619	677 677 676 671 661	636 660 656 644 637	650 667 666 661 649	633 637 669 709 655	598 622 614 546 551	612 628 633 630 602
26 27 28 29 30 31	697 716 670 652 	681 670 627 622 	688 700 643 638 	621 618 613 615 614 625	614 604 606 537 581 576	618 613 609 593 605 590	654 654 665 702 745	635 638 646 651 499	647 646 654 668 618	606 574 589 584 581 578	552 549 553 571 564 560	575 564 571 577 572 567
MONTH	837	617	702	698	375	616	745	499	621	737	512	620
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN		MIN AUGUST	MEAN	MAX	MIN SEPTEMBE	
DAY 1 2 3 4 5	MAX 578 579 587 581 587		MEAN 567 573 578 573 575	599 613 620 570 513		MEAN 589 605 594 547 505			MEAN 458 465 466 459 461	MAX 648 661 618 629 642		
1 2 3 4	578 579 587 581	JUNE 564 564 567 562	567 573 578 573	599 613 620 570	JULY 582 599 561 509	589 605 594 547 505 502 501 488 468 467	466 471 472 468 466 464 474 481 481	AUGUST 453 461 459 417	458 465 466 459	648 661 618 629	SEPTEMBE 617 579 583 598	628 627 606 613
1 2 3 4 5 6 7 8 9 10	578 579 587 581 587 590 595 592 597	JUNE 564 564 567 562 562 571 574 576 582 590 580 587	567 573 578 573 575 579 583 580 589	599 613 620 570 513 515 513 509 474	JULY 582 599 561 509 498 489 494 469 463	589 605 594 547 505 502 501 488 468 467	466 471 472 468 466 466 464 474 481	AUGUST 453 461 459 417 456 456 451 455 467	458 465 466 459 461 462 458 459 472	648 661 618 629 642 569 565 566 567	617 579 583 598 524 549 516 553 547	628 627 606 613 591 560 556 559 560
1 2 3 4 5 6 7 8 9 10 11 12 13 14	578 579 587 581 587 590 595 592 597 609 613 622 624 610	JUNE 564 564 567 562 562 571 574 576 582 590 580 587 592 570	567 573 578 573 575 579 583 580 589 600 598 603 610 589	599 613 620 570 513 515 513 509 474 482 491 490 494 486	JULY 582 599 561 509 498 489 494 469 463 455	589 605 594 547 505 502 501 488 468 467 474 476 487 472	466 471 472 468 466 464 474 481 481 471 474 476 476	AUGUST 453 461 459 417 456 456 451 455 467 463 457 462 462 462 450	458 465 466 459 461 462 458 459 472 472 477 469 470 466	648 661 618 629 642 569 565 566 567 590 597 634 682 689	549 516 553 598 524 549 516 553 547 552 568 597 607 626	628 627 606 613 591 560 556 559 560 564 587 617 652 667
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	578 579 587 581 590 595 592 597 609 613 622 624 610 592 599 594 593 569	JUNE 564 564 567 562 562 571 576 582 590 580 587 592 570 568 584 578 559	567 573 578 573 573 575 579 583 580 589 600 598 603 610 589 575 591 586 575 575 575	599 613 620 570 513 515 513 509 474 482 491 490 494 486 514 484 460 432 431	582 599 561 509 498 489 469 465 436 479 445 456	589 605 594 547 505 502 501 488 4667 474 476 487 472 468 462 419 428 423	466 471 472 468 466 464 474 481 471 474 476 470 473 507 476 480	AUGUST 453 461 459 417 456 456 451 455 467 463 457 462 450 457 462 445 395 469	458 466 459 461 462 458 459 472 467 469 470 466 465	648 661 618 629 642 569 565 566 567 590 597 634 682 689 728 824 863 920 936	SEPTEMBE 617 579 583 598 524 549 516 553 547 552 568 597 607 626 623 713 804 826 788	628 627 606 613 591 560 556 559 560 564 587 617 652 667 669
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	578 579 587 581 590 595 592 597 609 613 622 624 610 592 599 594 593 569 578 576 576 578	JUNE 564 564 567 562 571 576 582 590 580 587 592 570 568 584 579 553 561 554 555 545 545 543 575 543 575	567 573 578 573 575 579 583 580 589 600 589 600 589 575 571 586 575 561 575 561 575 561 575 561 575 575 571 575 575 575 575 575 575 57	599 613 620 570 513 515 513 509 474 482 491 490 494 486 514 484 460 432 431 478 475 475 473 471 472 456 462	582 599 561 509 498 489 463 455 436 479 445 456 437 298 422 414 420 469 474 473 468 467 467	589 605 594 547 505 502 501 488 468 467 474 476 487 472 468 462 419 428 423 443 473 471 470 463 456 450	466 471 472 468 466 464 474 481 471 474 476 472 470 473 507 476 480 480 515 492 489 491 488 496 484 493 564 585	453 461 459 417 456 456 451 467 463 457 462 450 457 462 445 395 469 476 471 413 438 457 467 467 467	458 465 466 459 461 462 458 459 472 477 469 470 466 465 469 475 454 474 475 485 483 481 473 475 480 503 516	648 661 618 629 642 569 565 567 597 634 682 689 728 824 863 920 936 875 886 875 847 824 845	SEPTEMBE 617 579 583 598 524 549 516 553 547 552 568 597 607 626 623 713 804 826 788 833 819 825 655 622 808 756 751 765 702 681	628 627 606 613 591 560 559 560 564 587 617 652 667 669 773 824 888 866 858 856 852 813 755 824 783 794 801 764 694
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	578 579 587 581 587 595 592 597 609 613 622 624 610 592 593 569 573 565 576 573 565 595 596 596 597 609 599 599 599 599 609 609 609 609 609 609 609 609 609 6	JUNE 564 564 567 562 571 574 576 582 590 580 587 592 570 568 584 578 559 553 561 554 555 545 536 457 523 438 590	567 573 578 573 575 579 583 580 589 600 598 603 610 589 575 591 586 575 561 570 564 568 5553 552 536 571 545 571 572	599 613 620 570 513 515 513 509 474 482 491 490 494 486 514 480 432 431 478 485 493 476 475	582 599 561 509 498 489 463 455 465 436 479 445 456 437 298 422 414 420 469 474 473 468 467	589 605 594 547 505 502 501 488 468 467 474 476 487 472 468 462 419 423 443 479 473 471 470 463 456 454	466 471 472 468 466 464 474 481 471 476 472 470 473 507 476 480 480 515 492 489 489 489 488 496 484 493 564	453 461 459 417 456 456 451 455 467 463 457 462 452 450 457 462 457 469 476 471 413 438 457 469	458 466 459 461 462 458 459 472 472 477 469 470 466 465 469 475 454 474 475 481 481 483 481 473 479 475 483 481 473	648 661 618 629 642 569 565 566 567 590 597 634 682 689 728 824 863 920 936 875 886 897 847 847 845	SEPTEMBE 617 579 583 598 524 549 516 553 547 552 568 597 607 626 623 713 804 826 788 833 819 825 652 808 756 751 765 702	628 627 606 613 591 560 559 560 564 587 617 652 667 773 824 888 866 858 856 852 813 794 801 764

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 \min^2 .

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.--No estimated daily discharges. Records good. 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 Peservoir

	DISCHAF	RGE, CUBIC	FEET PER		WATER Y	EAR OCTOBER ALUES	1999 TO	SEPTEMBI	ER 2000		
DAY OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 250	363	368	373	185	253	730	627	2720	505	1040	172
2 268	398	368	377	88	291	894	770	2870	435	928	196
3 303	425	372	375	61	341	897	551	2770	541	920	202
4 322	422	370	384	57	353	890	332	2700	809	950	178
5 288	425	368	382	59	350	898	324	2620	1220	954	319
6 241	422	386	382	54	350	838	467	2470	1180	977	394
7 231	422	433	378	56	398	807	719	2180	1070	1020	406
8 262	417	436	380	55	364	857	865	1880	1200	886	410
9 283	391	381	377	92	358	851	1030	1690	1320	729	408
10 316	341	319	374	161	355	863	1130	1460	1280	819	373
11 346	298	269	381	161	354	901	964	1370	1190	878	306
12 352	292	266	376	155	354	894	756	1180	1110	852	185
13 350	302	244	379	152	352	1580	928	1170	945	922	104
14 317	288	203	382	149	407	2130	926	1460	1110	1030	102
15 263	218	210	379	149	505	1080	879	1470	1080	1010	77
16 242	224	202	376	158	612	435	811	1200	1100	1000	42
17 282	239	186	378	162	789	494	729	1200	1370	1020	32
18 322	231	158	380	162	799	590	899	1290	1530	1060	31
19 335	232	152	380	163	792	575	1180	1320	1550	1020	31
20 411	232	152	382	161	791	515	1220	1210	1210	997	33
21 411	234	155	384	158	673	433	1020	1160	855	921	30
22 411	239	153	384	135	480	390	862	1130	771	879	29
23 374	248	153	384	111	444	400	859	1130	786	798	48
24 329	241	154	384	109	478	407	1030	1110	778	727	54
25 322	247	151	375	108	517	459	1710	1070	768	716	42
26 308 27 282 28 280 29 317 30 346 31 357	242 247 241 245 300	152 194 260 276 333 360	316 288 285 224 212 208	110 147 256 261 	526 592 646 661 661 632	489 501 447 349 434	2410 2520 1860 1620 2170 2560	968 804 790 568 550	841 968 1080 1160 1200 1150	724 777 742 673 470 211	61 45 59 89 117
TOTAL 9721	9066	8184	11019	3835	15478	22028	34728	45510	32112	26650	4575
MEAN 314	302	264	355	132	499	734	1120	1517	1036	860	152
MAX 411	425	436	384	261	799	2130	2560	2870	1550	1060	410
MIN 231	218	151	208	54	253	349	324	550	435	211	29
AC-FT 19280	17980	16230	21860	7610	30700	43690	68880	90270	63690	52860	9070
STATISTICS OF MEAN 259 MAX 431 (WY) 1996 MIN 125 (WY) 1990	224 491 1998 87.9 1989	118 330 1998 16.1 1990	109 355 2000 16.7 1989	146 312 1996 64.2 1995	332 623 1997 159 1990	598 1031 1998 217 1991	YEAR (WY) 1133 1716 1996 491 1989	2285 4111 1997 970 1989	1579 4290 1995 957 1994	969 1616 1995 545 1990	378 699 1995 113 1996
SUMMARY STATIS	STICS	FOR 1	.999 CALEN	NDAR YEAR	1	FOR 2000 WA	TER YEAR		WATER YE	ARS 1989	- 2000
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL LOWEST ANNUAL HIGHEST DAILY LOWEST DAILY ANNUAL SEVEN-I INSTANTANEOUS INSTANTANEOUS ANNUAL RUNOFF 10 PERCENT EXC 50 PERCENT EXC 90 PERCENT EXC	MEAN MEAN MEAN DAY MINIMUM PEAK FLOW PEAK STAGE (AC-FT) CEEDS		278167 762 4240 74 79 551700 1880 411 84	Jun 26 Feb 8 Feb 3		222906 609 2870 29 33 4420 11.91 442100 1200 392 152	Jun 2 Sep 22 Sep 16 Apr 13 Apr 13		680 1107 444 6030 3.6 8.2 a10400 14.18 492300 1690 358 57	Dec : Dec : Jun	1995 1990 23 1997 12 1989 11 1989 3 1994 3 1994

a $\,$ From rating curve extended above 5190 $\,$ ft $^3/s$ on basis of slope-conveyance and area-velocity studies.

07099970 ARKANSAS RIVER AT MOFFAT STREET, AT PUEBLO, CO--Continued

WATER-OUALITY 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 fair except for June 19, which is poor. Daily data not published are either during periods of estimated daily discharge, or are missing 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. Instantaneous discharge and selected water-quality data collected as part of a basin-wide water-quality assessment of the lower Arkansas River basin in Colorado are published elsewhere in this report.

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 . --

MIN

SPECIFIC CONDUCTANCE: Maximum daily mean, 884 microsiemens, Sept. 18; minimum daily mean, 352 microsiemens, July 17. WATER TEMPERATURE: Maximum, 25.3°C, Aug. 28; minimum, 0.8°C, Jan. 30.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAILY MEAN VALUES DAY OCT NOV DEC SEP JAN FEB MAR APR MAY JUN JUL AUG 544 549 491 499 376 477 24 577 529 519 27 546 470 766 29 ---MEAN

07099970 ARKANSAS RIVER AT MOFFAT STREET, AT PUEBLO, CO--Continued TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			ECEMBER			JANUARY	
1 2 3 4 5	19.6 17.8 17.1 18.6 19.1	14.4 13.5 13.5 13.4 13.9	16.9 15.8 15.3 16.0 16.5	13.7 13.8 14.4 14.4	10.9 10.4 10.7 10.5 10.9	12.3 12.0 12.3 12.3 12.4	10.0 9.4 8.2 8.4 8.8	8.5 7.7 6.8 6.5 5.8	9.1 8.5 7.6 7.3 7.3	6.6 6.6 5.3 5.9 6.6	3.5	5.2 5.3 4.0 4.1 5.2
6 7 8 9 10	18.0 17.5 18.1 18.6 18.4	15.3 14.0 13.5	16.4 16.2 16.0 16.2 16.2	14.4 14.2 14.0 14.1 13.4	10.3 10.6 11.2	12.1 12.1 12.2 12.5 11.7	9.3 8.7 7.6 8.3 7.6	6.3 7.0 6.8 6.0 5.6	7.7 7.7 7.2 7.2 6.6	6.2 5.5 5.8 5.0 5.9	4.2 2.9 3.5 3.0 2.9	5.2 4.2 4.5 4.0 4.3
12	18.9 18.6 18.2 18.0 16.9	14.1 13.9 13.9 13.6 13.6	16.5 16.2 16.1 15.9 15.4	13.3 13.2 13.3 12.8 12.6	9.5 9.4 9.1 9.2 8.8	11.6 11.4 11.4 11.2 11.0	7.8 7.4 6.4 6.2 5.6	5.9 4.6 4.5 4.3 2.9	6.8 6.1 5.5 5.1 4.4	5.6 6.7 5.8 5.7 6.2	2.8 3.4 3.2 2.9 3.6	4.1 5.0 4.4 4.2 4.7
16 17 18 19 20		11.7 11.3 11.9 12.4 12.4	13.0 13.3 13.5 14.0 14.3	12.6 12.8 11.7 11.3 11.2	8.9 8.8 9.7 8.0 8.4	11.0 11.0 10.6 9.9 9.9	7.2 6.9 6.3 6.1 5.2	4.2 5.7 4.1 4.0 3.6	5.7 6.4 5.4 5.2 4.5	5.8 6.5 6.6 6.9 6.1	3.3 3.4 3.7 3.8 3.1	4.5 4.8 5.0 5.3 4.6
21 22 23 24 25	16.5 16.2 15.8 15.9 15.5	12.3 12.0 11.8 11.3		10.9	8 5		4.7 5.3 6.1 6.5 6.3	2.8 3.4 3.3 3.8 3.6	3.9 4.5 4.9 5.4 5.3	6.1 6.4 5.7 6.0 4.6	3.2 3.4 2.8 2.5 3.2	4.5 4.8 4.2 4.1 3.7
26 27 28 29 30 31	15.8 14.6 14.7 13.7 14.7	11.0 11.7 10.7	13.5 13.0 13.0 12.5 12.6 12.9	11.2 10.7 10.6 9.6 10.2	8.4 8.2 7.6 7.7 7.6	9.8 9.7 9.3 8.6 9.0	6.3 6.2 6.9 6.8 6.6 6.3	4.1 3.3 3.6 3.7 3.7	5.4 5.0 5.3 5.3 5.2 4.8	5.7 4.8 4.6 4.6 4.5 4.8	3.0 2.8 3.2 1.8 .8	4.2 3.8 3.8 3.2 2.7 2.9
MONTH	19.6	10.7	14.7	14.4	6.6	10.8	10.0	2.8	6.0	6.9	.8	4.3
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5		1.4 2.0 4.0 3.9 2.8	3.5 4.3 5.7 5.4 4.9	8.1 6.6 8.4 9.3 8.4	3.7 4.4 3.6 3.6 3.9	5.9 5.2 5.7 6.2 6.1	9.2 9.1 8.4 11.2 11.4	5.2 5.3 5.5 5.3 6.3	6.7 6.8 6.7 7.7 8.4	13.4 14.5 16.8 17.5 17.8	9.2 8.8 9.1 9.7 9.9	10.7 11.1 12.4 13.4 13.7
6 7 8 9 10	7.7 7.6 7.0 6.0 5.3	3.1 3.0 2.9 4.5 2.9	5.4 5.3 5.2 5.2 4.3	8.3 8.5 7.2 7.9 7.9	3.8 4.5 4.5 3.9 4.0	5.8 6.5 6.0 5.7 5.9	11.6 10.3 10.8 11.8	6.9 6.7 6.0 6.3 6.8	8.7 8.1 7.9 8.5 8.3	13.8 13.8 12.0 13.8 14.0	9.8 9.4 9.8 9.5 9.4	11.7 11.1 10.3 11.1 11.2
11 12 13 14 15	4.5	2.9	3.3 4.1 4.0 4.9 6.1	9.2 8.1 9.3 9.3 7.9	3.9 4.1 3.7 3.9 3.6	6.4 6.0 6.3 6.4 5.6	9.2 11.1 9.9 9.1 10.0	7.1 6.5 6.7 7.0 6.8	7.8 8.3 7.9 7.8 8.0	14.7 14.6 13.2 14.0 14.7	9.7 8.9 9.0 9.2 9.5	11.5 11.2 10.7 11.1 11.6
16 17 18 19 20	6.7 6.2 6.3 6.3 5.8	2.9 3.0 3.0 1.7 2.1	5.3 4.8 4.6 4.3 4.2	8.7 8.1 7.1 8.9 7.4	3.3 4.1 4.6 4.3 4.8	5.5 5.6 5.7 6.1 5.7	12.9 12.6 13.1 12.9 14.5	5.9 6.6 6.9 7.5 8.1	8.9 9.2 9.5 10.0 10.8	11.9 11.9 12.7 14.4 14.0	9.6 9.3 9.7 10.6 10.8	10.6 10.6 11.1 12.0 12.0
21 22 23 24 25	8.0 7.1 9.1 8.2 7.1	2.6 3.5 4.5 4.4 3.3	5.5 5.6 6.9 6.6 5.3	6.7 6.2 10.7 10.6 11.1	4.7 4.5 5.4 5.2 5.4	5.5 5.3 7.4 7.5 7.8	14.3 12.3 13.1 15.1 13.9	7.9 8.3 8.9 8.8 8.3	10.9 10.3 10.7 11.5 10.7	16.0 16.1 16.8 14.6 16.0	10.6 10.8 11.1 11.2 11.3	12.8 13.1 13.5 12.5 12.3
26 27 28 29 30 31	7.2 8.4 7.9 9.1	1.6 3.4 3.1 4.7	4.5 6.0 5.6 6.6	9.2 11.0 9.2 10.5 7.0 6.3	5.5 5.1 5.4 5.9 5.4 4.7	7.2 7.5 7.0 7.6 6.0 5.5	15.0 15.1 12.7 14.6 12.3	8.3 8.6 8.6 8.9 8.5	11.2 11.4 10.7 11.5 9.6	13.4 14.1 15.5 14.4 14.4 14.6	11.4 11.8 11.4 11.6 12.2	12.2 12.5 13.1 12.7 12.7 13.1
MONTH	9.1	1.4	5.1	11.1	3.3	6.2	15.1	5.2	9.1	17.8	8.8	11.9

07099970 ARKANSAS RIVER AT MOFFAT STREET, AT PUEBLO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1 2 3 4 5	14.3 14.4 14.7 14.6 15.1	12.1 12.3 12.3 12.3 12.5	12.9 12.9 13.1 13.3 13.4	22.1 21.5 19.8 21.0 20.1	14.7 14.9 15.6 15.0 15.5	17.8 18.1 17.5 17.5	22.4 22.8 22.8 23.5 23.0	18.2 18.4 18.5 18.8 18.9	19.9 20.2 20.2 20.4 20.4	24.6 23.7 22.1 23.8 24.8	19.3 18.7 18.6 18.0 19.2	21.8 21.5 20.3 21.0 22.0
6 7 8 9 10	14.9 15.5 15.9 15.9 16.5	12.5 12.8 12.6 12.5 12.6	13.4 13.9 13.9 14.0 14.2	20.3 20.7 19.7 20.3 20.8	16.1 16.3 16.2 16.9	17.8 17.8 17.7 18.1 18.3	22.3 23.2 24.0 23.8 23.7	18.9 18.8 18.7 18.6 18.9	20.2 20.5 20.8 20.8 20.9	24.7 23.7 23.7 24.4 24.5	19.5 19.0 19.2 19.4 19.0	21.8 21.1 21.2 21.6 21.5
11 12 13 14 15	16.8 17.1 17.0 16.4 17.2	13.0 12.9 12.9 12.9 13.3	14.4 14.6 14.5 14.4 14.9	21.0 20.9 21.6 21.0 21.5	16.9 17.3 17.1 17.2 17.4	18.5 18.7 18.9 18.7 19.0	23.7 22.7 23.6 23.2 23.9	19.2 19.5 19.6 19.7 19.8	20.9 20.7 21.1 21.0 21.2	24.4 23.8 24.5 23.5 23.9	18.7 18.1 18.4 19.0 18.5	21.4 21.0 21.5 21.4 21.3
16 17 18 19 20	17.0 15.7 16.0 17.9 18.4	13.0 13.2 13.4 13.9 13.6	14.6 14.2 14.5 15.4 15.7	20.6 21.8 21.2 21.4 22.1	17.5 17.9 17.8 17.8 18.1	18.6 19.1 19.1 19.2 19.5	22.6 23.3 23.1 24.1 24.0	19.8 20.0 20.1 20.2 20.1	20.9 21.1 21.3 21.6 21.5	25.0 24.3 22.8 23.5 19.9	18.6 18.8 18.7 17.7 15.7	21.8 21.5 20.8 20.5 17.3
21 22 23 24 25	18.4 18.0 17.7 19.3 18.8	14.1 14.2 14.4 14.2 14.5	15.8 15.8 15.7 16.2 16.2	22.1 22.5 22.5 21.2 23.1	17.6 17.8 17.6 17.4 17.8	19.4 19.5 19.6 19.2 20.0	24.1 24.5 24.6 24.6 25.0	20.0 20.2 20.0 19.9 20.1	21.5 21.8 21.8 21.9 22.1	22.1 19.2 16.1 15.9 19.8	14.2 16.1 12.8 12.1 12.0	17.9 17.8 14.2 13.7 15.5
26 27 28 29 30 31	18.5 18.6 17.7 20.5 20.5	15.3 14.8 15.3 14.9 14.7	16.3 16.4 16.4 17.2 17.2	21.9 21.8 21.7 21.3 21.8 22.6	17.8 18.0 18.0 18.2 18.3 18.4	19.4 19.4 19.5 19.8 20.0	24.4 24.8 25.3 25.0 24.6 23.4	20.2 20.1 20.3 19.9 20.1 19.1	21.9 21.9 22.3 22.1 22.0 21.5	20.4 21.3 20.8 18.4 21.6	14.1 14.7 14.9 15.8 15.9	17.2 17.8 17.8 17.1 18.6
MONTH	20.5	12.1	14.8	23.1	14.7	18.8	25.3	18.2	21.2	25.0	12.0	19.7

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO

LOCATION.--Lat $38^\circ51^\circ17^\circ$, long $104^\circ52^\circ39^\circ$, in $\mathrm{SE}^1/_4\mathrm{SW}^1/_4$ 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.

REVISED RECORDS. -- WDR CO-99-1: 1997(M)

GAGE.--Water-stage recorder with satellite telemetry, crest-stage gage, 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 except for estimated daily discharges, which are poor. 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. DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		DISCHAR	GE, CUBIC	. FEEL PEI		MEAN VA	LUES	1999 10	SEP1EMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	31 30 28 28 28	20 17 e17 16 16	15 15 16 16 14	16 17 15 15	12 15 16 13	11 12 11 11	18 18 17 18 23	34 37 38 35 32	22 24 23 22 23	14 14 16 13 12	8.2 9.7 9.8 19 23	19 15 14 13 12
6 7 8 9 10	27 37 33 30 28	15 15 14 14 14	16 16 15 14 15	14 15 16 15 15	13 13 13 13 13	12 13 11 10	27 28 27 29 29	32 31 64 53 47	22 20 19 18 16	12 12 12 12 12	14 15 14 13	10 10 11 9.7 9.3
11 12 13 14 15	27 25 24 26 26	14 13 14 14	15 14 16 16 15	17 17 17 16 16	12 11 e11 e11 e10	10 11 9.9 10	29 27 30 31 33	41 39 37 37 35	16 16 15 15	11 12 13 12 11	12 13 12 15	11 8.8 8.6 8.7 9.0
16 17 18 19 20	26 24 25 27 25	14 14 14 13 15	19 19 18 18	16 16 16 17 16	e10 e10 11 11	13 14 13 12 e13	30 31 35 33 31	33 34 33 34 32	14 17 17 16 14	13 17 14 12 11	16 20 24 16 16	8.4 8.9 8.7 8.6 9.4
21 22 23 24 25	24 23 23 23 22	15 19 16 15 16	17 16 17 16 16	16 16 15 17	11 11 11 11	13 14 14 15 16	31 30 32 34 33	30 28 28 29 32	13 13 13 13 14	13 11 11 10 10	17 15 14 14 14	11 13 14 15 13
26 27 28 29 30 31	22 21 21 21 21 21	17 16 16 15 15	16 16 16 16 16	16 15 14 11 11	9.8 10 11 12 	17 18 20 20 19	30 32 33 35 36	30 27 24 24 26 25	33 27 20 18 15	10 9.8 10 9.9 9.0 8.5	15 13 14 31 20 21	13 13 15 13 10
TOTAL MEAN MAX MIN AC-FT	797 25.7 37 21 1580	457 15.2 20 13 906	497 16.0 19 14 986	477 15.4 17 11 946	339.8 11.7 16 9.8 674	412.9 13.3 20 9.9 819	870 29.0 36 17 1730	1061 34.2 64 24 2100	542 18.1 33 13 1080	367.2 11.8 17 8.5 728	484.7 15.6 31 8.2 961	343.1 11.4 19 8.4 681
STATIST	CICS OF MC	NTHLY MEA	N DATA FC	R WATER	YEARS 1958		BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	13.1 44.0 1985 5.29 1979	11.0 34.6 1985 4.98 1965	9.05 18.8 1985 4.14 1990	8.26 18.5 1985 4.46 1994	7.81 13.6 1986 4.44 1972	9.17 16.9 1998 4.91 1965	15.1 65.1 1999 5.90 1963	34.4 172 1980 6.37 1989	32.7 198 1997 6.69 1989	22.3 108 1995 6.48 1964	21.3 90.5 1999 5.48 1974	15.0 43.2 1999 5.00 1978
SUMMARY	STATISTI	CS	FOR 1	.999 CALEI	NDAR YEAR	F	OR 2000 WAS	TER YEAR		WATER Y	EARS 1958	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN A		17079.0 46.8 813 6.7 7.1 33880 122 22 8.8			6648.7 18.2 64 8.2 8.7 117 3.92 13190 31 16	May 8 Aug 1 Sep 13 May 8 May 8		16.6 46.3 7.29 813 2.0 3.0 a2630 b5.2 12050 31 10 5.5	Apr Jan Mar Aug	1999 1963 30 1999 24 1969 20 1965 4 1964 4 1964

e Estimated.

Estimated.
 a From rating curve extended above 488 ft³/s, on basis of slope-area measurements of peak flow at gage heights, 3.87 ft, 4.52 ft, and 5.27 ft.
 b Maximum gage height, 7.81 ft, Apr 29, 1999, 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: August 1995 to September 1998 (seasonal peaks only), April 1998 to current year (seasonal records only). INSTRUMENTATION. -- Pumping sediment sampler since August 1995.

REMARKS.--Records for daily suspended sediment are fair except for Aug. 31, which is poor.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

EXTREMES FOR PERIOD OF DAILY RECORD.-SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 8,090 mg/L, June 6, 1997; minimum daily mean, 2 mg/L,
Apr. 15, 1999.

SEDIMENT LOAD (seasonal only): Maximum daily, 41,800 tons, June 6, 1997; minimum daily, 0.07 ton, Apr. 15-16, 1999.

EXTREMES FOR CURRENT YEAR. --

SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 3,240 mg/L, Aug. 31; minimum daily mean, 3 mg/L, Oct. 30, June 13 SEDIMENT LOAD (seasonal only): Maximum daily, 248 tons, Aug. 31; minimum daily, 0.09 ton, Sept. 16.

				WATER-	-QUALITY I	DATA, WAT	ER YEAR OO	CTOBER 199	99 TO SEPT	EMBER 200	00		
D₽	ATE	TIME	DIS CHARG INST CUBI FEE PER SECO	E, SPE CIFIC C CON- T DUCT- ANCE ND (US/CN	FIELI - (STANI ARD 1) UNITS	TEMPE D TEMPE D- ATUR WATE G) (DEG (E DIS- R SOLVE C) (MG/I	- ICAL, ED 5 DAY L) (MG/I	FORM, FECAL O.7, UM-MF Y (COLS. L) 100 MI	DIS- SOLVI (MG/I AS CZ	DIS- ED SOLVE L (MG/I	M, SULFAT - DIS- ED SOLVE L (MG/I G) AS SO	DIS- ED SOLVED L (MG/L 4) AS F)
OCT	Г 1	0845	24	259	7.9	4.5	10.5	<1.0	56	30.6	6.30	16.0	2.7
	4	1330	18	276	8.2	1.0	11.2	<1.0	35	32.9	6.72	16.0	2.7
	7	0800	11	366	8.2	1.5	11.2	<1.0	K220	42.5	8.82	21.0	2.7
	9	1130	31	211	8.1	6.2	9.9	<1.0	K40	23.4	4.43	<15.0	2.7
JUN 21 AUC	l	1215	14	312	8.2	13.0	8.5	<1.0	900	34.8	6.75	15.0	2.7
	5	1200	16	270	8.3	16.5	7.5	<1.0	580	28.1	5.56	<15.0	2.7
	DAT		NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	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)
	OCT 21 DEC		.700	<.020	.040	.020	<1	<1.0	36	35	<.1	<.1	<1
	14 FEB		.900		.020	<.010	<1	<1.0	31	31	<.1	<.1	<1
	17 APR		1.30	<.020	<.010	.010	<1	<1.0	43	40	<.1	<.1	<1
	19		.650	<.020	.070	.020	<1	<1.0	25	21	<.1	<.1	<1
	21 AUG		.758	<.020	<.050	<.010	<1	<1.0	36	35	<.1	<.1	<1
	15		.524	<.020	<.050	<.010	<1	<1.0	35	32	<.1	<.1	<1
	DAT	Έ	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)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)
	OCT 21		<1.0	<1	<1	230	20	<1	<1	44	35		<.1
	DEC 14		<1.0	1	<1	680	20	1	<1	111	80		
	FEB 17		<1.0	1	1	180	<10	<1	<1	46	40		<.1
	APR 19		<1.0	1	<1			2	<1	72	24		<.1
	JUN 21		1.1	4	2	220	20	<1	<1	38	19	<.3	<.2
	AUG 15		<1.0	1	1	490	<10	2	<1	43	9	<.3	<.2

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		WHIEN	-QUALIII	DAIA, WAI	ER IEAR C	CIOBER 13	99 IO SEP	IEMDER ZU	00		
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
OCT 21	<2	<2	<1	<.5	<1	<1	7	4	<.01		
DEC 14	<2	<2	1	.8	<1	<1	7	2	<.01	18	.87
FEB 17	2	<2	1	.5	<1	<1	3	<3	<.01	4	.12
APR 19	<2	<2	1	.9	<1	<1	9	<3	<.01		
JUN 21	<2	<2	2	<.5	<1	<1	5	<3	<.01	4	.15
AUG	1	<2	1	.8	<1	<1	12	<3		13	.56
15	1	<2	1	.0	ζ1	ζ1	12	<3	<.01	13	.50
WAT	ER-QUALITY	DATA DUR	ING STORM	WATER-RUN	OFF SAMPL	ING, WATE	R YEAR OC	TOBER 199	9 TO SEPT	EMBER 200	0
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
MAY 08	1115	80	165	7.9	8.9	9.4	9.3	800	17.0	3.04	10.0
JUN 26	1030	26	237	8.2	13.5	8.6	1.8	K2800	26.3	4.77	<15.0
JUL 17	1700	25	261		17.4		3.4	4600	28.3	5.41	<15.0
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	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)
MAY 08	2.1	.518	.077	.703	.023	2	<1.0	22	22	.7	<.1
JUN 26	2.6	.564	<.020	.131	.011	1	<1.0	26	27	.1	<.1
JUL 17	2.5	.707	<.020	.273	.013	1	<1.0	19	13	.3	<.1
17	2.5	.707	1.020	.273	.013	_	VI.0	10	15	. 3	\.I
DATE	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)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)
MAY 08	6	<1.0	10	1	13300	130	36	<1	1000	68	<.3
JUN 26	1	<1.0	5	1	2650	30	6	<1	215	11	<.3
JUL 17	3	1.2	6	1	4910	50	13	<1	400	8	<.3
DATE	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
MAY 08	<.2	5	<2	4	.6	<1	<1	138	6	<.01	657
JUN 26	<.2	2	<2	3	1.9	<1	<1	27	<3	<.01	162
JUL 17	<.2	3	<2	3	1.0	<1	<1	65	<3	<.01	310
±/	\. ∠	3	~∠	3	1.0	<u> </u>	<u> </u>	05	\3	<.U1	210

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO--Continued

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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DATE	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	ACE- NAPHTH- YLENE TOTAL (UG/L) (34200)	ACE- NAPHTH- ENE TOTAL (UG/L) (34205)	ANTHRA- CENE TOTAL (UG/L) (34220)	BENZ(A) ANTHRA- CENE WATER UNFLTRD REC (UG/L) (34526)	BENZO B FLUOR- AN- THENE TOTAL (UG/L) (34230)	BENZO- A- PYRENE TOTAL (UG/L) (34247)	PERY- LENE TOTAL (UG/L)		CHRY- SENE TOTAL (UG/L) (34320)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (UG/L) (34556)
MAY 08	151	<2	<2	<2	<3	<3	<3	<3	<3	<3	<3
JUN 26	11	<2	<2	<2	<3	<3	<3	<3	<3	<3	<3
JUL											
17	21	<2	<2	<2	<3	<3	<3	<3	<3	<3	<3
DATE	FLUOR- ANTHENE TOTAL (UG/L) (34376)	FLUOR- ENE TOTAL (UG/L) (34381)	INDENO (1,2,3 CD) PYRENE TOTAL (UG/L) (34403	NAPHT ALEN TOTA (UG/L	E THR L TOT 1) (UG/	ENE PYF 'AL TO L) (UC	A W RENE DTAL G	2,6-DI- ETHYL NILLINE JAT FLT 0.7 U SF, REC UG/L) 82660)	ACETO- CHLOR, WATER FLIRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)
MAY 08 JUN	<2	<2	<3	<2	<2	<	<2	<.003	<.002	<.002	<.001
26	<2	<2	<3	<2	<2	<	<2	<.003	<.002	<.002	<.006
JUL 17	<2	<2	<3	<2	<2		<2	<.003	<.002	<.002	<.005
DATE	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	WATER FLTRD 0.7 U GF, REC (UG/L)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)
MAY 08	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	.102	<.001
JUN 26	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	.007	<.001
JUL 17	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	.024	<.001
DATE	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLITRD 0.7 U GF, REC (UG/L) (82666)	(UG/L)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
MAY 08 JUN	<.017	<.002	<.004	<.003	<.003	<.004	<.002	.007	<.002	<.004	<.004
26	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.004	<.004	<.004
JUL 17	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.010	<.004	<.004
DATE	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PARA- THION, DIS- SOLVED (UG/L) (39542)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	WATER, DISS, REC (UG/L)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
MAY 08	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013	<.020
JUN 26	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013	<.003
JUL 17	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013	<.003

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO--Continued

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		TEBU-	TER-	TER-	THIO-	TRIAL-	TRI-		PER-	
	SI-	THIURON	BACIL	BUFOS	BENCARB	LATE	FLUR-		METHRIN	
	MAZINE,	WATER	WATER	WATER	WATER	WATER	ALIN	ALPHA	CIS	
	WATER,	FLTRD	FLTRD	FLTRD	FLTRD	FLTRD	WAT FLT	BHC	WAT FLT	P,P'
	DISS,	0.7 U	DIS-	0.7 U	DDE					
DATE	REC	GF, REC	GF, REC	GF, REC	GF, REC	GF, REC	GF, REC	SOLVED	GF, REC	DISSOLV
	(UG/L)									
	(04035)	(82670)	(82665)	(82675)	(82681)	(82678)	(82661)	(34253)	(82687)	(34653)
MAY										
08	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
JUN										
26	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
JUL										
17	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT					MAY				
02	1530	31	222	8.5	26	1230	31	215	11.0
21	1415	23	266	7.5	JUN				
NOV					01	1300	23	245	13.5
01	1545	18	282	6.0	JUL				
02	1455	16	323	5.5	06	1445	12	318	17.5
DEC					17	1015	14	262	15.0
03	0930	15	332	2.5	AUG				
JAN					01	1200	8.1	357	15.5
11	1345	16	295	3.0	17	1900	28	199	16.1
MAR					18	1340	22	228	14.0
16	0850	12	388	.0	30	1100	18	252	14.6
APR					SEP				
03	1415	15	383	4.5	12	0930	8.8	387	11.5
05	0745	22	312	3.5	28	1100	12	265	9.0
18	1415	34	215	10.0					

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)		SEDI- MENT, SUS- PENDED (MG/L) (80154)	SUS- PENDED (T/DAY)
C	CT					
	02	1530	31	8.5	6	.50
1/	21 IOV	1415	23	7.5	7	.43
1	01	1545	18	6.0	4	.19
Ι	DEC					
-	14 TAN	1330	18	1.0	18	.87
U	11	1345	16	3.0	9	.39
F	EB					
70	17	0800	11	1.5	4	.12
F	MPR 03	1415	15	4.5	6	.24
	05	0745	22	3.5	33	2.0
	18	1415	34	10.0	29	2.7
M	IAY					
	08 26	1115 1230	80 31	8.9 11.0	657 15	151 1.3
J	20 ΠΙΝ	1230	31	11.0	15	1.3
	21	1215	14	13.0	4	.15
	26	1030	26	13.5	162	11
Ų	UL 17	1015	14	15.0	10	.38
	17	1700	25	17.4	310	21
P	AUG					
	01	1200	8.1	15.5	4	.09
	15 17	1200 1900	16 28	16.5 16.1	13 164	.56 11
	30	1100	18	14.6	35	1.7
5	SEP	0			33	
	12	0930	8.8	11.5	11	.26
	28	1100	12	9.0	8	.26

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER		1	OVEMBER		D	ECEMBER	
1 2 3 4 5	31 30 28 28 28	 6 7 8 6	e.51 .50 .53 .53	20 17 e17 16 16	 	 	15 15 16 16 14	 	
6 7 8 9 10	27 37 33 30 28	5 100 20 13	.36 e36 9.2 1.5	15 15 14 14	 	 	16 16 15 14 15	 	
11 12 13 14 15	27 25 24 26 26	13 11 9 9	.86 e.79 .66 .59	14 13 14 14	 	 	15 14 16 16 15	 	
16 17 18 19 20	26 24 25 27 25	12 8 6 6	.79 e.68 .53 .42 .38	14 14 14 13 15	 	 	19 19 18 18 17	 	
21 22 23 24 25	24 23 23 23 22	7 5 5 5	.40 e.33 .29 .29	15 19 16 15 16	 	 	17 16 17 16 16	 	
26 27 28 29 30 31	22 21 21 21 21 21	4 3 5	.23 e.20 e.19 e.17 .17 .26	17 16 16 15 15	 	 	16 16 16 16 16	 	
TOTAL	797		59.57	457	===	0	497		0
DAY	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)
	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION	DISCHARGE
DAY 1 2 3 4 5	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE
1 2 3 4	DISCHARGE (CFS) 16 17 15 15	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 12 15 16 13	CONCEN- TRATION (MG/L) PEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 11 12 11 11	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9	DISCHARGE (CFS) 16 17 15 15 16 14 15 16 16 15	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 12 15 16 13 13 13 13 13	CONCEN- TRATION (MG/L) PEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 11 12 11 11 11 11 11 11 11 10	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 2 13	DISCHARGE (CFS) 16 17 15 16 14 15 16 15 17 17 17	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 12 15 16 13 13 13 13 13 11 11 11 11 11 11 11 11	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 11 12 11 11 11 11 11 10 10 10 11 9.9 10	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	DISCHARGE (CFS) 16 17 15 16 17 15 16 16 17 17 17 17 16 16 16 16 16 16 16 17	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 12 15 16 13 13 13 13 13 14 11 11 ell ell ell ell ell ell ell ell e	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 11 12 11 11 11 11 11 10 10 10 10 11 9.9 10 10 13 14 13 14 13	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	DISCHARGE (CFS) 16 17 15 16 17 15 16 16 17 17 17 17 16 16 16 16 16 16 16 16 16 17 16	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 12 15 16 13 13 13 13 13 13 11 e11 e11 e10 e10 e10 e10 e10 11 11 11 11 11	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 11 12 11 11 11 11 11 10 10 10 10 11 9.9 10 10 13 14 13 12 e13 13 14 14 15	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Left	DAY	MEAN DISCHARGE (CFS)		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)
2 188			APRIL			MAY			JUNE	
The color of the	2 3 4	18 17 18	 9 21	e1.5 .41 1.2	37 38 35	24 23 	2.5 2.4 e1.8	24 23 22	4 6 9	.29 .38 .55
12	7 8 9	28 27 29	48 28 46	3.6 2.0 3.6	31 64 53	18 422 	1.5 92 e19	20 19 18	7 8 	.37 .40 e.36
17	12 13 14	27 30 31	19 28 31	1.4 2.3 2.6	39 37 37	37 31 	3.8 3.1 e2.6	16 15 15	5 3 4	.20 .14 .17
22 30	17 18 19	31 35 33	24 33 21	2.0 3.1 1.9	34 33 34	37 20 	3.5 1.8 e1.6	17 17 16	7 14 9	.32 .65 .38
27 32 20 1.7 27 11 .80 27 494 44 42 28 33 17 1.6 24 10 .65 20 39 2.2 29 35 e2.1 24 18 1.2 18 23 1.1 30 36 18 1.8 26 8 .55 15 e.7 e.7 6.3 e.7 e.7 6.3 e.7 e.7 e.7 6.3 e.7	22 23 24	30 32 34	61 33 27	4.9 2.8 2.5	28 28 29	15 16 26	1.2 1.2 2.1	13 13 13	7 8 6	.23 .28 .19
MEAN DISCHARGE TRATION DISCHARGE MEAN DISCHARGE M	27 28 29 30	32 33 35	20 17 18	1.7 1.6 e2.1 1.8	27 24 24 26	11 10 18 8	.80 .65 1.2 .55	27 20 18 15	494 39 23	44 2.2 1.1
MEAN DISCHARGE CONCEN- SEDIMENT DISCHARGE CONCEN- DISCHARGE	TOTAL	870		66.30	1061		173.53	542		121.72
1 14 14 .50 8.2 6 .14 19 1050 59 2 14 9 .34 9.7 13 .34 15 79 3.3 3 16 32 1.4 9.8 16 .43 14 49 1.8 4 13 16 .56 19 287 40 13 el.6 5 12 el.6 1.2 8 .27 14 13 .52 10 19 .54 1.2 6 1.2 8 .27 15 24 1.0 10 19 .51 8 12 6 1.9 14 18 .71 11 19 .54 1.0 10 19 .51 18 12 6 1.9 14 18 .71 11 19 .54 1.0 10 19 .51 18 12 10 .33 15 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>										
2 14 9 .34 9.7 13 .34 15 79 3.3 3 16 32 1.4 9.8 16 .43 14 49 1.8 4 13 16 .56 19 287 40 13 e1.6 5 12 e.30 23 179 15 12 36 1.2 6 12 8 .27 15 24 1.0 10 19 .54 7 12 8 .27 15 24 1.0 10 19 .54 8 12 6 .19 14 18 .71 11 19 .54 9 12 8 .26 13 10 .35 9.7 e.55 10 12 e.32 12 e.23 9.3 15 .39 11 11 22 .72 12 7 .23 11 18 .52	DAY	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE
7 12 8 .27 15 24 1.0 10 19 .51 8 12 6 .19 14 18 .71 11 19 .54 9 12 8 .26 13 10 .35 9.7 e.51 10 12 e.32 12 e.23 9.3 15 .39 11 11 22 .72 12 7 .23 11 18 .52 12 12 e.57 13 7 .26 8.8 12 .29 13 13 .45 12 9 .29 8.6 .20 .47 14 12 10 .32 15 36 2.2 8.7 e.53 15 11 7 .21 15 19 .80 9.0 12 .30 16 13 e.42 16 26 1.3 8.4 4 .09 17 </td <td>DAY</td> <td>DISCHARGE</td> <td>CONCEN- TRATION (MG/L)</td> <td>DISCHARGE</td> <td>DISCHARGE</td> <td>CONCEN- TRATION (MG/L)</td> <td>DISCHARGE</td> <td>DISCHARGE (CFS)</td> <td>CONCEN- TRATION (MG/L)</td> <td>DISCHARGE (TONS/DAY)</td>	DAY	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
12 12 e.57 13 7 .26 8.8 12 .29 13 13 .45 12 9 .29 8.6 20 .47 14 12 10 .32 15 36 2.2 8.7 e.53 15 11 7 .21 15 19 .80 9.0 12 .30 16 13 e.42 16 26 1.3 8.4 4 .09 17 17 66 4.0 20 84 7.5 8.9 6 .15 18 14 25 .95 24 199 14 8.7 9 .21 19 12 16 .55 16 37 1.7 8.6 e.20 20 11 18 .57 16 el.3 9.4 9 .22 21 13 e.50 17 138 9.9 11 14 .41 <t< td=""><td>1 2 3 4</td><td>DISCHARGE (CFS) 14 14 16 13</td><td>CONCEN- TRATION (MG/L) JULY 14 9 32 16</td><td>DISCHARGE (TONS/DAY) .50 .34 1.4 .56</td><td>DISCHARGE (CFS) 8.2 9.7 9.8 19</td><td>CONCENTRATION (MG/L) AUGUST 6 13 16 287</td><td>DISCHARGE (TONS/DAY)</td><td>DISCHARGE (CFS) S 19 15 14 13</td><td>CONCENTRATION (MG/L) EPTEMBER 1050 79 49</td><td>DISCHARGE (TONS/DAY) 59 3.3 1.8 e1.6</td></t<>	1 2 3 4	DISCHARGE (CFS) 14 14 16 13	CONCEN- TRATION (MG/L) JULY 14 9 32 16	DISCHARGE (TONS/DAY) .50 .34 1.4 .56	DISCHARGE (CFS) 8.2 9.7 9.8 19	CONCENTRATION (MG/L) AUGUST 6 13 16 287	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S 19 15 14 13	CONCENTRATION (MG/L) EPTEMBER 1050 79 49	DISCHARGE (TONS/DAY) 59 3.3 1.8 e1.6
17 17 66 4.0 20 84 7.5 8.9 6 1.5 18 14 25 .95 24 199 14 8.7 9 .21 19 12 16 .55 16 37 1.7 8.6 e.20 20 11 18 .57 16 el.3 9.4 9 .22 21 13 e.50 17 138 9.9 11 14 .41 22 11 10 .30 15 19 .77 13 23 .84 23 11 10 .30 14 12 .44 14 47 2.3 24 10 18 .50 14 11 .44 15 el.4 25 10 13 .37 14 el.1 13 11 .41 26 10 e.26 15 88 3.7 13 7 .25 27 9.8 8 .21 13 11 .39 13 10 .36 28 10 9 .25	1 2 3 4 5 6 7 8 9	DISCHARGE (CFS) 14 14 14 16 13 12 12 12 12 12 12	CONCENTRATION (MG/L) JULY 14 9 32 16 8 8 6 6	DISCHARGE (TONS/DAY) .50 .34 1.4 .56 e.30 .27 .27 .19 .26	B.2 9.7 9.8 19 23 14 15 14	CONCEN- TRATION (MG/L) AUGUST 6 13 16 287 179 13 24 18 10	DISCHARGE (TONS/DAY) .14 .34 .43 40 .15 .52 1.0 .71 .35	DISCHARGE (CFS) S 19 15 14 13 12 10 10 10 11 9.7	CONCENTRATION (MG/L) EPTEMBER 1050 79 49 36 19 19	DISCHARGE (TONS/DAY) 59 3.3 1.8 e1.6 1.2 .54 .51 .54
22 11 10 .30 15 19 .77 13 23 .84 23 11 10 .30 14 12 .44 14 47 2.3 24 10 18 .50 14 11 .44 15 el.4 25 10 13 .37 14 el.1 13 11 .41 26 10 e.26 15 88 3.7 13 7 .25 27 9.8 8 .21 13 11 .39 13 10 .36 28 10 9 .25 14 37 1.9 15 8 .34 29 9.9 8 .23 31 1130 108 13 e.26 30 9.0 8 .19 20 42 2.3 10 7 .21 31 8.5 e.19 21 3240 248	1 2 3 4 5 6 7 8 9 10 11 12 13 14	DISCHARGE (CFS) 14 14 14 16 13 12 12 12 12 12 12 12 12 12 12 12	CONCEN- TRATION (MG/L) JULY 14 9 32 16 8 8 6 8 22 13 10	DISCHARGE (TONS/DAY) .50 .34 1.4 .56 e.30 .27 .27 .19 .26 e.32 .72 e.57 .45 .32	DISCHARGE (CFS) 8.2 9.7 9.8 19 23 14 15 14 13 12 12 12 13 12	CONCEN- TRATION (MG/L) AUGUST 6 13 16 287 179 13 24 18 10 7 7 9 36	DISCHARGE (TONS/DAY) .14 .34 .43 40 .15 .52 1.0 .71 .35 e.23 .26 .29 2.2	DISCHARGE (CFS) S 19 15 14 13 12 10 10 11 9.7 9.3 11 8.8 8.6 8.7	CONCENTRATION (MG/L) EPTEMBER 1050 79 49 36 19 19 19 15 18 12 20	DISCHARGE (TONS/DAY) 59 3.3 1.8 e1.6 1.2 .54 .51 .54 e.51 .39 .52 .29 .47 e.53
27 9.8 8 .21 13 11 .39 13 10 .36 28 10 9 .25 14 37 1.9 15 8 .34 29 9.9 8 .23 31 1130 108 13 e.26 30 9.0 8 .19 20 42 2.3 10 7 .21 31 8.5 e.19 21 3240 248	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	DISCHARGE (CFS) 14 14 14 16 13 12 12 12 12 12 12 11 11 13 17 14 12	CONCEN- TRATION (MG/L) JULY 14 9 32 16 8 8 8 6 6 8 13 10 7	DISCHARGE (TONS/DAY) .50 .34 1.4 .56 e.30 .27 .27 .19 .26 e.32 .72 e.57 .45 .32 .21 e.42 4.0 .95 .55	DISCHARGE (CFS) 8.2 9.7 9.8 19 23 14 15 14 13 12 12 13 12 24 16	CONCENTRATION (MG/L) AUGUST 6 13 16 287 179 13 24 18 10 7 7 9 36 19 26 84 199 37	DISCHARGE (TONS/DAY) .14 .34 .43 40 15 .52 1.0 .71 .35 e.23 .26 .29 2.2 .80 1.3 7.5 14 1.7	DISCHARGE (CFS) S 19 15 14 13 12 10 10 11 9.7 9.3 11 8.8 8.6 8.7 9.0 8.4 8.9 8.7 8.6	CONCENTRATION (MG/L) EPTEMBER 1050 79 49 36 19 19 15 18 12 20 12 4 6 9	DISCHARGE (TONS/DAY) 59 3.3 1.8 e1.6 1.2 .54 .51 .54 e.51 .54 e.51 .39 .52 .29 .47 e.53 .30 .09 .15 .21 e.20
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	DISCHARGE (CFS) 14 14 14 16 13 12 12 12 12 12 12 11 11 13 17 14 12 11 13 17 14 11 11 11 10	CONCEN- TRATION (MG/L) JULY 14 9 32 16 8 8 8 6 6 8 13 10 7 66 25 16 18	DISCHARGE (TONS/DAY) .50 .34 1.4 .56 e.30 .27 .27 .19 .26 e.32 .72 e.57 .45 .32 .21 e.42 4.0 .95 .55 .57 e.50 .30 .30 .50	DISCHARGE (CFS) 8.2 9.7 9.8 19 23 14 15 14 13 12 12 13 12 15 15 16 20 24 16 16 16 17 15 14	CONCENTRATION (MG/L) AUGUST 6 13 16 287 179 13 24 18 10 7 7 9 36 19 26 84 199 37 138 19 12 11	DISCHARGE (TONS/DAY) .14 .34 .43 .40 .15 .52 .0, 71 .35 e.23 .23 .26 .29 2.2 .80 .1.3 7.5 14 .1.7 el.3 9.9 .77 .44	DISCHARGE (CFS) S 19 15 14 13 12 10 10 11 9.7 9.3 11 8.8 8.6 8.7 9.0 8.4 8.9 8.7 8.6 9.4 11 13 14 15	CONCENTRATION (MG/L) EPTEMBER 1050 79 49 36 19 19 19 15 18 12 20 12 4 6 9 9 14 23 47	DISCHARGE (TONS/DAY) 59 3.3 1.8 el.6 1.2 .54 .51 .59 .52 .29 .47 e.53 .30 .09 .15 .21 e.20 .22 .41 .84 2.3 el.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 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	DISCHARGE (CFS) 14 14 14 16 13 12 12 12 12 12 12 11 13 17 14 12 11 13 17 14 10 10 10 9.8 10 9.9 9.0	CONCEN- TRATION (MG/L) JULY 14 9 32 16 8 8 6 8 22 13 10 7 66 25 16 18 10 10 18 13 8 9 8 8 8	DISCHARGE (TONS/DAY) .50 .34 1.4 .56 e.30 .27 .27 .19 .26 e.32 .72 e.57 .45 .32 .21 e.42 4.0 .95 .55 .57 e.50 .30 .30 .50 .37 e.26 .21 .25 .23 .19	DISCHARGE (CFS) 8.2 9.7 9.8 19 23 14 15 14 13 12 12 13 12 15 16 20 24 16 16 17 15 14 14 14 14 15 15 16 20 20 24 16 20 20 24 20 21 21 20 21 21 20 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 20 21 20 20 20 21 20 20 20 20 20 20 20 20 20 20 20 20 20	CONCENTRATION (MG/L) AUGUST 6 13 16 287 179 13 24 18 10 7 7 9 36 19 26 84 199 37 138 19 12 11 88 11 37 1130 42	DISCHARGE (TONS/DAY) .14 .34 .43 40 15 .52 1.0 .71 .35 e.23 .26 .29 2.2 .80 1.3 7.5 14 1.7 e1.3 9.9 .77 .44 .44 e1.1 3.7 .39 1.9 108 2.3	DISCHARGE (CFS) S 19 15 14 13 12 10 10 10 11 9.7 9.3 11 8.8 8.6 8.7 9.0 8.4 8.9 8.7 8.6 9.4 11 13 14 15 13 14 15 13	CONCENTRATION (MG/L) EPTEMBER 1050 79 49 36 19 19 19 15 18 12 20 12 4 6 9 9 14 23 47 9 14 23 47 11 7 10 8 8 7	DISCHARGE (TONS/DAY) 59 3.3 1.8 el.6 1.2 .54 .51 .59 .67 .67 .67 .67 .67 .67 .67 .67 .67 .67

e Estimated.

07103703 CAMP CREEK AT GARDEN OF THE GODS, CO

LOCATION.--Lat $38^{\circ}52^{\circ}37^{\circ}$, long $104^{\circ}52^{\circ}20^{\circ}$, in $\mathrm{SE}^{1}/_{4}\mathrm{NE}^{1}/_{4}$ sec.34, T.13 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank, 80 ft downstream from county road bridge at east entrance to Garden of the Gods Park, and 1.9 mi upstream from

DRAINAGE AREA. -- 9.45 mi².

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

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,310 ft above sea level, from topographic map.

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

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 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 .01 .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 .02 .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 .12 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.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 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	
16 17 18 19 20	.02 .00 .01 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .01 .00	.05 .03 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.01 .04 .00 .00	.00 .00 .00 .00	
21 22 23 24 25			.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 .00 .00 .00	.00 .00 .00 .00	.01 .00 .01 .00	.00 .00 .03 .02	
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 .01	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .05 .03 .00	.00 .00 .00 .00	
TOTAL MEAN MAX MIN AC-FT	0.05 .002 .02 .00			0.00 .000 .00 .00	0.01 .000 .01 .00	0.16 .005 .05 .00	0.01 .000 .01 .00	0.12 .004 .12 .00	0.00 .000 .00 .00	0.00 .000 .00 .00	0.18 .006 .05 .00	0.05 .002 .03 .00	
STATIST	ICS OF MO	NTHLY MEAN		R WATER Y			BY WATER						
MEAN MAX (WY) MIN (WY)	.016 .12 1995 .000 1993	.001 .003 1999 .000 1993	.000 .001 1993 .000 1994	.002 .015 1995 .000 1993	.000 .000 1998 .000 1993	.091 .38 1996 .000 1994	2.80 15.7 1999 .000 1994	12.1 45.5 1999 .004 2000	6.80 27.7 1997 .000 2000	.88 6.78 1995 .000 1993	.76 5.66 1999 .000 1993	.13 .76 1994 .000 1993	
SUMMARY	STATISTI	CS	FOR 1	999 CALEN	DAR YEAR	F	OR 2000 WAT	TER YEAR		WATER YE	ARS 1992	- 2000	
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN HOWEST 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					Apr 29 Jan 1 Jan 1		.00 .00 1.5	May 8 Oct 1 Oct 8 Aug 31 Aug 31		2.16 6.48 .00 240 a.00 .00 b430 c5.40 1570 2.4 .00	Apr 2 Aug 1 Aug 1 Apr 2 Apr 2	1999 2000 9 1999 5 1992 5 1992 9 1999 9 1999	

a No flow most of the time most years.

b From rating curve extended above 327 ft³/s. c From floodmarks.

07103707 FOUNTAIN CREEK AT 8th STREET AT COLORADO SPRINGS, CO

WATER-OUALITY RECORDS

LOCATION.--Lat $38^\circ49^\cdot46^\circ$, long $104^\circ50^\cdot21^\circ$, in $NW^1/_4SE^1/_4$ sec.13, T.14 S., R.67 W., El Paso County, Hydrologic Unit 11020003, 270 ft downstream from 8th Street and 0.4 mi upstream from Monument Creek.

DRAINAGE AREA. -- 119 mi².

AUG 15...

<1.0

2

2

250

<10

<1

155

142

<.3

E.1

PERIOD OF RECORD. -- February 1981 to September 1982. March 1997 to current year.

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DIS-OXYGEN COLI-PH CHARGE. SPE-WATER MAGNE-FLUO-DEMAND. FORM. INST. CIFIC WHOLE BIO-FECAL, CALCIUM SIUM, SULFATE RIDE, CON-FIELD TEMPER-OXYGEN, CHEM-0.7 DTS-DTS-DTS-DTS-DIS-UM-MF SOLVED SOLVED SOLVED SOLVED ICAL, SOLVED DATE TIME PER ANCE ARD WATER 5 DAY (COLS./ (MG/L (MG/L (MG/L (MG/L SECOND (US/CM) UNITS) (DEG C (MG/L) (MG/L) 100 ML) AS CA) AS MG) AS SO4) AS F) (00061)(00095) (00400)(00010) (00300) (00310) (31625)(00915)(00925)(00945)(00950) OCT 21... 1030 21 399 8.1 6.0 10.0 <1.0 75 41.1 11.7 59.0 2.8 DEC 15... 1300 532 8.3 .0 12.1 1.0 78 54.7 16.5 100 2.8 FEB 17... 1000 10 8.3 3.0 10.9 <1.0 32 62.9 22.0 140 2.7 654 APR 30 9.5 9.0 <1.0 K22 9.04 56.0 2.7 19... 1300 348 8.3 33.6 NUL 7.0 118 49.4 472 1330 1.9 1380 8.1 20.0 <1.0 K890 2.9 21... AUG 15... 1315 2.6 728 8.1 21.5 6.6 <1.0 1400 60.2 22.3 190 2.7 NITRO-NITRO-PHOS-CHRO-PHORUS BORON, CADMIUM GEN, GEN, MIUM, NO2+NO3 AMMONIA PHOS-ORTHO, ARSENIC TOTAL BORON, WATER CADMIUM ARSENIC PHORUS UNFLTRD DIS-DIS-DIS-DIS-RECOV-DIS-DIS-RECOV SOLVED SOLVED TOTAL SOLVED TOTAL SOLVED ERABLE SOLVED TOTAL SOLVED ERABLE DATE (MG/L (MG/L (MG/L (MG/L (UG/L (UG/L (UG/L (UG/L (UG/L (UG/L (UG/L AS CD) (01022)(01027)(00631)(00608)(00665) (00671)(01002)(01000)(01020)(01025)(01034) OCT 21... 1.00 <.020 .050 .020 <1 <1.0 53 48 <.1 <.1 <1 DEC 15... 1.40 2 66 67 .040 .010 <1.0 <.1 .1 <1 FEB 17... 1.60 <.020 .030 <.010 <1.0 75 74 .1 <.1 <1 APR 19... .750 .020 .060 .020 2 <1.0 39 38 <.1 <.1 <1 JUN 21... 2.86 <.020 <.050 <.010 5 4.0 174 174 .1 .1 <1 AUG 15... 1.21 <.020 <.050 .012 4 2.9 94 93 <.1 <.1 <1 MANGA-CHRO-COPPER, IRON, LEAD, MANGA-MERCURY NESE, IRON, DIS-NESE, MIUM, TOTAL COPPER, TOTAL TOTAL LEAD, TOTAL TOTAL MERCURY DIS-RECOV-DIS-RECOV RECOV-DIS-RECOV-DIS-RECOV-DIS-SOLVED ERABLE SOLVED ERABLE SOLVED ERABLE SOLVED ERABLE SOLVED ERABLE SOLVED DATE (UG/L AS CR) AS CU) AS MN) (01030) (01042)(01040)(01045) (01049)(01056)(71900) (71890) (01046)(01051)(01055)OCT 21... <1.0 1 <1 350 20 <1 <1 123 104 <.1 DEC 15... <1.0 2 1 500 20 2 <1 138 102 <.1 FEB <10 185 154 <1.0 1 410 2 <1 <.1 APR 19... <1.0 2 <1 40 2 <1 83 47 <.1 .TITIN 21... <10 <1 482 475 40 <1 <.3 <.2

07103707 FOUNTAIN CREEK AT 8th STREET AT COLORADO SPRINGS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
OCT		_	_								
21 DEC	<2	2	2	1.0	<1	<1	41	34	<.01		
15	2	3	5	5.0	<1	<1	26	16	<.01	14	.64
FEB			_								
17 APR	3	2	6	5.1	<1	<1	40	26	<.01	8	.22
19	2	<2	3	2.6	<1	<1	18	8	<.01	14	1.1
JUN											
21	6	5	18	15.4	<1	<1	87	80	<.01	1	.01
AUG 15	3	2	7	6.5	<1	<1	27	<3	<.01	3	.02
13	3	2	1	0.5	_T	_T	۷ /	~3	~.UI	3	.02

07103780 MONUMENT CREEK ABOVE NORTH GATE BOULEVARD AT U.S. AIR FORCE ACADEMY, CO

LOCATION.--Lat $39^{\circ}01^{\circ}52^{\circ}$, long $104^{\circ}50^{\circ}52^{\circ}$, 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 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. Elevation of gage is 6,640 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 and diversions upstream from station for municipal supply of Monument and Palmer Lake.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY MEAN VALUES													
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
9.9 8.3 9.7 12 14	e11 e11 e11 e11	e11 e11 e12 e11 e10	9.1 9.3 e9.3 e8.8 e9.5	ell 11 ell	11 14 e13 18 e18	26 25 26 e28 e31	37 38 37 33 31	15 14 9.1 7.4 6.9	8.0 7.7 8.1 7.3 6.6	3.1 3.1 3.3 4.0 4.2	6.7 4.7 4.5 4.4 4.7		
11 9.9 e10 e10 e11	e11 e11 e11 e11	e11 e10 e10 e10 e10	e10 e10 e11 e11	e12 e12 12 12 12	e16 13 e12 11 e12	e33 40 e43 45 45	28 25 37 36 29	7.7 7.7 7.7 8.5 6.6	6.3 6.5 6.2 5.9 5.7	3.9 3.7 3.5 3.6 3.7	4.5 4.2 4.1 3.7 4.0		
											4.0 3.8 2.6 2.3 2.3		
											2.2 2.2 2.4 2.4 3.1		
e12 e11 e14 e12 e12	e10 e11 e11 e10 e10	e9.4 e9.0 e8.8 e8.6 e9.6	11 11 11 e10 8.5	e10 e10 e10 e9.8 e9.8	e22 23 e24 e24 e23	e42 43 40 42 e41	21 17 17 20 24	6.7 6.9 7.2 8.1 8.7	4.8 4.8 4.6 4.7 4.7	5.3 5.8 4.9 4.5 5.1	3.4 6.1 5.0 6.2 4.9		
e12 e11 e11 e11 e11	e10 e11 e11 e11 e11	e9.8 e10 e10 e9.8 e9.6 e9.4	e9.0 e9.4 e9.6 e9.8 e10 e10	e9.8 e9.0 e9.0 e10	e23 23 23 25 e28 31	e41 40 39 38 42	20 15 14 12 13 15	12 12 9.9 9.1 8.6	4.6 4.3 4.1 4.1 3.6 3.3	9.5 5.4 5.1 14 8.6 5.5	4.3 4.0 3.8 3.6 3.5		
704	632	609	623	621	1140	2370	1520	8.68 15 6.6 517	171.5 5.53 8.1 3.3 340	152.4 4.92 14 3.1 302	117.6 3.92 6.7 2.2 233		
5.52 11.4 2000 .95 1990		5.45 9.91 2000 1.54 1990	4.98 10.1 2000 1.08 1990	5.43 10.8 2000 1.81 1990	9.09 21.1 1998 2.38 1991	28.7 75.5 1999 7.04 1989	7EAR (WY) 52.9 210 1999 6.57 1989	25.6 77.8 1999 4.49 1989	9.78 30.6 1995 1.04 1989	9.13 36.7 1999 .90 1989	5.53 15.7 1997 1.16 1989		
STATISTI	CS	FOR	1999 CALEN	IDAR YEAR	FC	R 2000 WAT	TER YEAR		WATER YE	ARS 1985	- 2000		
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			14887.6 40.8 1250 2.8 4.0 29530 110 11 5.1	Apr 30 Mar 23 Jan 13		4844.9 13.2 48 2.2 2.3 a67 7.52 9610 29 10 4.1	Apr 19 Sep 16 Sep 13 Apr 19 Apr 19		13.6 39.6 3.82 1250 .58 .69 b1790 c9.01 9880 31 6.2 2.0	Apr 3	1999 1989 30 1999 15 1989 26 1989 30 1999 30 1999		
	9.9 8.3 9.7 12 14 11 9.9 9.10 ell ell ell ell ell ell ell ell ell el	OCT NOV 9.9 ell 8.3 ell 9.7 ell 12 ell 14 el0 11 ell 9.9 ell el0 ell el1 ell el0 ell el1 el1 el1 el1 el1 el1 el1 el1 el2 el0 el3 el0 el3 el0 el3 el0 el3 el0 el2 el0 el2 el0 el1 el1 el1 el1 el1 el1 el2 el0 el2 el0 el2 el0 el2 el0 el1 el1 el1 el1 el1 el1 el1 el2 el0 el2 el0 el2 el0 el2 el0 el2 el0 el2 el0 el1 el1 el1 el1 el1 el2 el0 el2 el0 el2 el0 el2 el0 el2 el0 el1 el1 el1 el1 el1 el1 el2 el0 el2 el0 el2 el0 el2 el0 el2 el0 el1 el2 el0	OCT NOV DEC 9.9 ell ell 8.3 ell ell 9.7 ell el2 12 ell ell ell 14 el0 el0 11 ell ell ell 9.9 ell el0 el0 ell el0 el1 el0 el1 el0 el1 el1 el0 el2 el0 e8.4 el3 e9.6 e9.0 el3 el0 e9.2 el3 el0 e9.6 el2 el0 e9.6 el1 el1 el1 el0 el1 el1 el1 el0 el1 el1 el0 el1 el1 el0 el1 el1 el0 el2 el0 e9.6 el2 el0 el0 e9.6 el2 el0 e9.6 el2 el0 el0 e9.6 el0	OCT NOV DEC JAN 9.9 ell ell 9.1 8.3 ell ell 9.3 9.7 ell el2 e9.3 12 ell ell ell e8.8 14 el0 el0 e9.5 11 ell ell el0 el0 9.9 ell el0 el0 el0 e9.5 11 ell el1 el0 el1 el0 el1 el0 el1 el1 el1 el0 el1 el2 el0 e8.4 el1 el2 el0 e9.6 el0 el3 el0 e9.2 el0 el3 el0 e9.2 el0 el3 el0 e9.2 el0 el3 el0 e9.6 el1 el2 el0 e9.6 ll el2 el0 e9.6 el1 el2 el0 e9.6 el1 el2 el0 e9.6 el1 el1 el1 el1 e8.8 ll el2 el0 e9.6 el0 el1 el1 el1 e9.0 ll el1 el1 el1 e9.0 ll el1 el1 el1 e9.0 ll el2 el0 e9.6 el0 el2 el0 e9.6 el0 el1 el1 el1 el0 e9.6 el2 el0 e9.6 el0 el1 el1 el1 el0 e9.6 el2 el0 e9.6 el0 el1 el1 el1 el0 e9.6 el2 el0 e9.6 el0 el1 el1 el1 el0 e9.6 el2 el0 e9.6 el0 el1 el1 el1 el0 e9.6 el2 el0 e9.6 el0 el1 el1 el1 el0 e9.6 el2 el0 e9.6 el0 el1 el1 el1 el0 e9.6 el1 el0 e9.8 e9.0 el1 el0 e9.8 e9.0 el1 el0 e9.8 e9.0 el1 el0 e9.8 e9.0 el0 el0 el0 e9.8 e9.0 el0 el0 e9.6 el0 el0 el0 e9.6 el0 el0 e9.6 el0 el0 el0 e9.6 el0 el0 el0 e9.6 el0	DAILY OCT NOV DEC JAN FEB	OCT NOV DEC JAN FEB MAR 9.9 ell ell ell 9.1 el0 11 8.3 ell ell 9.3 ell 14 9.7 ell el2 e9.3 11 el3 12 ell ell el1 e8.8 ell 18 14 el0 el0 e9.5 el2 el8 11 ell el0 el0 e9.5 el2 el8 11 el1 el0 el0 el2 13 el0 el1 el0 el0 el2 13 el0 el1 el0 el1 l2 el2 el0 el1 el0 el1 l2 el2 el1 el1 el0 el1 l2 l1 el1 el1 el0 el1 l2 el2 el1 el1 el0 el1 l2 l3 el1 el1 el1 el0 el1 l2 el2 el1 el1 el1 el0 el1 l2 el2 el2 el1 el0 e8.4 el1 l1 l5 el2 el1 el0 e8.4 el1 l1 l5 el2 el1 e9.0 el1 el1 el2 el3 el2 el0 e9.4 el0 el1 l2 l9 el3 el0 e9.4 el0 el1 el0 el1 20 el2 el0 e9.6 el1 el0 e22 el1 el1 el0 e9.6 el1 el0 e22 el1 el1 el1 e9.0 l1 el0 e22 el1 el1 el1 e9.0 l1 el0 e22 el1 el1 el1 e9.0 l1 el0 e24 el1 el1 el1 e9.0 l1 el0 e24 el1 el1 el1 e9.0 l1 el0 e24 el1 el1 el1 e9.6 el0 e9.8 e23 el1 el1 el0 e9.6 el0 e9.8 e23 el1 el1 el1 el0 e9.6 el0 e9.8 e23 el1 el1 el1 el0 e9.6 el0 e9.8 e23 el1 el1 el1 el0 e9.6 el0 e e28 el1 el1 el1 e9.8 e9.8 el0 25 el1 el1 el1 e9.8 e9.8 el0 25 el1 el1 el1 el0 e9.4 el0 el1 el1 el0 e24 el1 el1 el0 e9.6 el0 e9.8 e23 el1 el1 el1 el0 e9.6 el0 e9.8 e23 el1 el1 el1 el0 e9.8 e9.8 el0 e25 el1 el1 el1 el0 e9.8 e9.8 el0 e25 el1 el1 el1 el0 e9.8 e9.8 el0 el0 el1 el1 el0 e25 el1 el1 el1 el0 e9.8 e9.8 el0 el0 el1 el1 el0 el1 el1 el1 el0 el1 el1 el0 el1 el1 el0 el1 el1 el1 el0 el1 el1 el0 el1 el1 el1 el1 el1 el0 el1 el1 el0 el1	OCT NOV DEC JAN FEB MAR APR 9.9 el11 el1 9.1 el0 11 26 8.3 el1 el1 9.3 el1 14 25 9.7 el11 el2 e9.3 11 el3 26 12 el1 el1 el0 e9.5 el2 el8 el1 14 el0 el0 e9.5 el2 el8 el3 11 el1 el1 el0 el0 el2 el6 e33 9.9 el1 el0 el0 el2 el6 e33 el0 el1 el0 el0 el1 12 el2 e43 el0 el1 el0 el0 el1 12 el2 e43 el0 el1 el0 el1 el1 12 el2 el2 e43 el0 el1 el0 el1 el1 12 el2 el2 e45 el1 el1 el1 el0 el1 el2 el2 e45 el1 el1 el1 el0 el1 12 el2 e13 44 el1 el1 el1 el0 el1 12 el2 e13 e45 el1 el1 el1 el0 el1 12 el2 el3 44 el1 el1 el1 el2 el1 el2 el3 44 el1 el1 el1 el2 el1 el2 el3 45 el2 el1 el1 el2 el1 el2 el3 45 el2 el1 el1 el2 el1 el2 el3 45 el2 el1 el0 e8.4 el1 ll 1 15 45 el3 el9 el0 e9.6 el1 el1 12 el3 45 el3 el0 e9.6 el0 9.7 el7 43 el3 el0 e9.6 el0 12 19 43 el3 el0 e9.6 el1 el0 el1 21 19 43 el3 el0 e9.6 el1 el0 el1 20 44 el2 el0 e9.6 el1 el0 el1 20 44 el2 el0 e9.6 el1 el0 e22 e42 el1 el1 el1 e8.8 ll el0 e22 e42 el2 el0 e9.6 el1 el0 e22 e42 el1 el1 el1 e8.8 ll el0 e24 40 el2 el0 e9.6 el0 e9.8 e23 e41 el1 el1 el1 el0 e9.6 el0 e9.8 e24 42 el2 el0 e9.6 el0 e9.8 e23 e41 el1 el1 el1 el0 e9.6 el0 e9.8 e24 e42 el2 el0 e9.6 el0 e9.8 e23 e41 el1 el1 el1 el0 e9.6 el0 e9.8 e24 42 el2 el0 e9.6 el0 e9.8 e20 e9.8 e23 e41 el1 el1 el0 e9.6 el0 e e28 42 el2 el0 e9.6 el0 e e28 42 el1 el1 el1 el0 e9.6 el0 e e28 42 el1 el1 el1 el0 e9.6 el0 e e28 42 el1 el1 el1 el0 el0 el0 el0 el0 el0 el0 el0 el0 el1 el0 el0 el0 el1 el0 el0 el0 el1 el0 el0 el0 el1 el0	OCT NOV DEC JAN FEB MAR APR MAY 9.9 ell ell ell 9.1 el0 ll 26 37 8.3 ell ell ell 9.3 ell 14 25 38 9.7 ell el2 e9.3 ll el3 26 37 12 ell el1 el2 e9.3 ll el3 26 37 12 ell el1 el1 e8.8 ell 18 e28 33 14 el0 el0 e9.5 el2 el8 e31 31 11 el1 el1 el0 el0 el2 el6 e33 28 19.9 el1 el0 el0 el2 el6 e33 32 10 el1 el1 el0 el0 el2 el6 e33 32 11 el1 el1 el0 el1 l2 el2 el3 40 25 11 el1 el1 el0 el1 l2 el2 el3 40 25 11 el1 el1 el0 el1 l2 el2 el3 44 29 11 el1 el1 el0 el1 l2 el2 el3 44 29 11 el1 el1 el0 el1 l2 el2 el3 44 29 11 el1 el1 el0 el1 l2 el2 el3 44 29 11 el1 el1 el0 el1 l2 el2 el3 44 29 12 el1 el1 el1 el0 el1 el2 el3 44 29 12 el1 el1 el1 el0 el1 el2 el3 44 29 12 el1 el1 el1 el0 el1 el2 el3 44 29 12 el1 el1 el1 el0 el1 el2 el3 44 29 13 el2 el1 el1 el0 el1 el2 el3 44 29 14 el2 el1 el1 el0 el1 el2 el3 44 29 15 el2 el1 el0 e8.4 el1 el1 el2 el3 44 29 16 el2 el1 el0 e8.4 el1 el1 el2 el3 44 29 18 el2 el0 e9.6 el1 el1 el2 el3 45 26 18 el3 el0 e9.6 el0 9.7 el7 43 16 18 el3 el0 e9.6 el1 el1 el2 el3 44 28 18 el3 el0 e9.6 el1 el1 el1 el2 el3 44 28 18 el3 el0 e9.6 el1 el1 el0 el1 20 44 28 18 el3 el0 e9.6 el1 el0 el1 20 44 28 18 el3 el0 e9.6 el1 el0 el1 20 44 28 18 el3 el0 e9.6 el1 el0 el1 20 44 28 18 el3 el0 e9.6 el1 el0 el1 20 44 28 18 el3 el0 e9.6 el1 el0 el1 20 44 28 18 el1 el1 el1 el0 e9.6 el0	OCT NOV DEC JAN FEB MAR APR MAY JUN 9.9 el1 el1 9.1 el0 11 26 37 15 8.3 el1 el1 el1 9.3 el1 14 25 38 14 9.7 el1 el2 e9.3 11 el3 26 37 9.1 12 el1 el1 el1 e8.8 el1 18 e28 33 7.4 14 el0 el0 e9.5 el2 el8 e31 31 6.9 11 el1 el1 el0 el0 e9.5 el2 el8 e31 31 6.9 11 el1 el1 el0 el0 e12 el6 e33 28 7.7 19.9 el1 el10 el0 el2 el6 e33 28 7.7 10 el1 el1 el10 el1 el2 el2 e43 37 7.7 10 el1 el10 el1 l2 el2 e44 37 7.7 11 el1 el1 el0 el1 l2 el2 e45 37 7.7 11 el1 el1 el0 el1 l2 el2 e45 29 6.6 11 el1 el0 el1 l2 el2 e45 29 6.6 11 el1 el0 el1 l2 el2 el3 44 29 7.1 12 el2 el1 el1 el0 el1 l2 el2 el3 e45 29 6.6 11 el1 el1 el0 el1 l2 el2 el3 e45 29 7.8 12 el1 el1 el1 el0 el1 l2 el2 el3 e45 29 7.8 12 el2 el1 e9.0 el1 el1 el2 el3 e45 29 7.8 12 el2 el0 e8.4 el1 l1 l2 el3 45 26 7.8 12 el2 el0 e9.4 el0 el1 l3 45 25 7.8 13 el0 e9.6 e9.0 el0 9.7 el7 43 16 8.9 13 el0 e9.6 el1 el0 el1 l2 l9 43 22 8.6 13 el0 e9.6 el1 el0 el1 l2 l9 43 22 8.6 13 el0 e9.6 el1 el0 el1 el0 e22 e42 21 6.7 14 el1 el1 e8.8 l1 el0 el2 e42 8.3 15 el2 el0 e8.6 el1 el0 e24 40 17 7.2 16 el1 el1 e8.8 l1 el0 e24 40 17 7.2 17 el1 el1 el1 el0 e8.8 el0 e9.8 e23 e41 20 12 14 el1 el1 e8.8 l1 el0 e24 40 15 l2 15 el2 el0 e9.6 el1 el0 e9.8 e23 e41 24 8.7 16 el1 el1 el1 el0 e8.6 el0 e9.8 e23 e41 20 8.1 16 el1 el1 el0 e9.6 el1 el0 e9.8 e23 e41 24 8.7 17 el1 el1 el1 el0 e9.6 el0 e9.8 e23 e41 20 8.1 18 el2 el0 e9.8 e9.0 e9.8 e23 e41 20 8.1 18 el2 el0 e9.8 e9.8 e9.0 e9.8 e23 e41 20 8.1 18 el1 el1 el1 el0 el0 e9.8 e9.0 e9.8 e23 e41 20 8.7 19 el1 el1 el1 el0 e9.6 el0 e9.8 e9.0 e9.8 e23 e41 20 8.1 19 el1 el1 el1 el0 el0 e9.6 el0 e9.8 e9.0 e9.8 e23 e41 20 8.7 10 el1 el1 el1 el0 el0 e9.6 el0 e9.8 e9.0 e9.8 e23 e41 20 8.7 10 el1 el1 el1 el0 el0 e9.6 el0 e9.8 e9.0 e9.8 e23 e41 20 8.7 10 el1 el1 el1 el0 e9.6 el0 e9.6 e9.8 e23 e41 20 8.7 10 el1 el1 el1 el0 e9.6 el0 e9.8 e9.0 e9.8 e23 e41 20 8.7 10 el1 el1 el0 e9.6 el0 e9.8 e9.0 e9.8 e23 e41 20 8.7 10 el1 el1 el0 e9.6 el0 e9.8 e9.0 e9.8 e23 e41 20 e9.8 11 el1 el1 el0 e9.6 el0 e9.8 e9.0 e9.9 e9.9 e9.9 e9.9 e9.9	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL 9.9 ell ell ell 9.1 ell 19.1 ell 14.2 ell 25.3 ell 14.7.7 9.7 ell ell ell ell ell ell ell ell ell el	OCT NOV DEC JAN FEB MAR AP MAY JUN JUL AUG 9.9 elil elil elil 9.1 elol 11 12 65 37 15 8,0 3.1 8.3 elil elil 9.1 elol 11 12 65 37 15 8,0 3.1 9.7 elil elil elil e8.8 elil 18 e28 33 7.4 7.3 4.0 14 elol elo elo e9.5 elol ela e18 e31 31 6.9 6.6 4.2 11 elil elil e8.8 elil 18 e28 33 7.4 7.3 4.0 14 elol elo elo e9.5 elol e12 ela e31 31 6.9 6.6 4.2 11 elil elil elo elo e12 e16 e33 28 7.7 6.3 3.9 9.9 elil elil elo elo e12 e16 e33 28 7.7 6.3 3.9 19.9 elil elil elo e10 e12 e16 e33 28 7.7 6.3 3.9 19.9 elil elil elo e10 e12 e16 e33 28 7.7 6.3 3.9 10.0 elil elil elo e10 e12 e13 40 25 7.7 6.5 3.7 10.0 elil elil elo e10 e12 e13 40 25 7.7 6.5 3.7 10.0 elil elil elo e11 12 e12 e13 44 29 7.7 6.1 3.7 10.1 elil elil elo e11 12 e12 e12 45 29 6.6 5.7 3.7 10.1 elil elil elil eli e10 e11 12 e12 e12 45 29 6.6 5.7 3.7 10.1 elil elil elil e10 e11 13 45 25 36 8.5 5.7 3.7 10.1 elil elil e11 e10 e11 12 e12 e13 44 29 7.1 6.1 3.7 10.1 elil e11 e10 e11 13 45 25 35 7.5 5.0 3.9 10.2 elil e10 e8.4 e11 11 15 45 33 6.8 8.5 5.0 3.9 10.3 e9.6 e9.0 e10 9.7 e17 43 16 8.9 5.4 4.1 10.3 e13 e10 e9.2 e10 12 19 43 22 8.6 5.6 4.5 10.3 e10 e9.4 e10 e11 20 44 28 8.3 5.6 5.6 4.5 10.3 e10 e9.6 e10 e9.6 e11 e10 e22 e42 21 6.7 4.8 5.5 6.1 10.3 e10 e9.6 e11 e10 e22 e42 22 48 8.1 5.2 4.5 10.3 e10 e9.6 e11 e10 e22 e42 22 48 8.1 5.2 4.5 10.3 e10 e9.6 e11 e10 e22 e42 40 17 7.2 4.6 4.9 11.3 e10 e9.6 e11 e10 e22 e42 42 20 8.1 4.7 5.1 11.4 e11 e11 e10 e9.8 e9.8 e10 e10 22 e42 21 6.7 4.8 5.3 6.8 5.6 6.1 11 e11 e10 e9.8 e9.8 e10 e10 22 e42 21 6.7 9 4.8 5.3 6.1 11 e11 e11 e10 e9.8 e9.8 e10 e10 e22 e42 21 6.7 9 4.8 5.3 6.1 11 e11 e10 e9.6 e10 e9.8 e23 e41 24 8.7 4.7 5.1 11 e11 e10 e9.8 e9.8 e10 e10 e20 e42 e42 e10 e10 e9.6 e10 e9.6 e10 e9.8 e23 e41 24 8.7 4.7 5.1 11 e11 e10 e9.8 e9.8 e10 e10 e22 e42 e10 e10 e9.6 e10 e9.6 e10 e9.6 e10 e9.8 e23 e41 24 8.7 4.7 5.1 11 e11 e10 e9.8 e9.8 e10 e10 e22 e42 e42 e44 8.7 4.7 5.1 11 e11 e10 e9.8 e9.8 e10 e10 e22 e42 e44 e44 e44 e44 e44 e44 e44 e44		

a From rating curve extended above 52 ${\rm ft^3/s}$ on basis of slope-area measurement of peak flow. ${\rm From\ floodmarks.}$

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.

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGH INST CUBIC FEET PER SECON (0006)	E, SPE- CIFIC CON- DUCT- ANCE ND (US/CN	C WHOL FIEL - (STAN ARD M) UNIT	E D TEMPEI D- ATURI WATEI (S) (DEG (E DIS- R SOLVE C) (MG/I	- ICAL ED 5 DAY L) (MG/I	O, FORM, FECAL - 0.7 , UM-ME (COLS. L) 100 MI	CALCI DIS- SOLV (MG/	DIS- ED SOLVI L (MG/I A) AS MO	M, SULFA' - DIS- ED SOLVI L (MG/I G) AS SO	DIS- ED SOLVED L (MG/L 4) AS F)
15	0830	8.2	299	8.0	.0	11.0		48	30.8	5.26	24.6	1.6
FEB 16	0815	15	304	7.9	.0	11.4		16	5 29.4	5.08	26.3	1.2
APR 19	0745	53	148	8.1	5.2	9.4		K1900	16.0	2.55	11.3	1.6
JUN 21	0900	6.5	256	8.3	15.0	8.9	<1.0	120	25.6	4.25	20.4	1.4
AUG 15	0915	3.9	363	8.5	19.0	9.0	1.3	100	31.6	5.40	24.0	1.4
	1	NITRO- GEN, NO2+NO3 DIS- SOLVED	DIS- SOLVED	PHOS- PHORUS TOTAL	PHOS- PHORUS ORTHO, DIS- SOLVED	ARSENIC TOTAL	ARSENIC DIS- SOLVED	BORON, TOTAL RECOV- ERABLE	BORON, DIS- SOLVED	CADMIUM WATER UNFLTRD TOTAL	CADMIUM DIS- SOLVED	CHRO- MIUM, TOTAL RECOV- ERABLE
DAT		(MG/L AS N) (00631)	(MG/L AS N) (00608)	(MG/L AS P) (00665)	(MG/L AS P) (00671)	(UG/L AS AS) (01002)	(UG/L AS AS) (01000)	(UG/L AS B) (01022)	(UG/L AS B) (01020)	(UG/L AS CD) (01027)	(UG/L AS CD) (01025)	(UG/L AS CR) (01034)
DEC 15		.596	.050	.546	.384	<3	<2.0	76	69	<.1	<1.0	<1
FEB 16		1.72	.145	.634	.571	<3	<2.0	78	82	<.1	<1.0	<1
APR 19		.093	.033	.319	.107	<3	<2.0	24	23	E.1	<1.0	E1
JUN 21		.191	<.020	.376	.290	<3	<2.0	77	76	E.1	<1.0	<1
AUG 15		.160	<.020	1.04	.874	<3	E1.1	174	173	<.1	<1.0	<1
DAT	E	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)
DEC 15		<.8	2	2	320	30	<1	<1	78	75	<.3	<.2
FEB 16		<1.0	2	2	410	60	E1	<1	99	84	<.3	<.2
APR 19		<.8	2	<1	3240	100	4	<1	210	29	<.3	<.2
JUN 21		<.8	2	2	400	110	E1	<1	50	37	<.3	<.2
AUG 15		<.8	E1	2	560	70	<1	<1	80	42	<.3	<.2
13		 0	FI	2	500	70	\1	\1	80	42	\. .3	·.2
DAT	E	VICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI - MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
DEC 15		<2	1	<3	<2.4	<1	<1	E18	8	<.01	7	.15
FEB 16		E1	2	<3	<2.4		<1		16		14	.57
APR						<1	<1	E29		<.01		46
19 JUN		E1	<1	<3	<2.4	<1		<31	6	<.01	322	
21 AUG		E1	1	<3	<2.4	<1	<1	<31	9	<.01	2	.04
15		E1	2	<3	<2.4	<1	<1	E19	16		8	.08

07103780 MONUMENT CREEK ABOVE NORTH GATE BOULEVARD, AT U.S. AIR FORCE ACADEMY, CO--Continued MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER	SPE- CIFIC CON- DUCT- ANCE	TEMPER- ATURE WATER	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER	SPE- CIFIC CON- DUCT- ANCE	TEMPER- ATURE WATER
DATE	TIME	SECOND (00061)	(US/CM) (00095)	(DEG C) (00010)	DATE	TIME	SECOND (00061)	(US/CM) (00095)	(DEG C) (00010)
OCT					MAY				
01	1335	11	306	17.0	24	0855	18	211	13.0
20	1450	13	287	13.0	JUN				
NOV					21	0900	6.5	256	15.0
12	1010	11	300	6.5	JUL				
DEC					10	1650	5.8	280	25.9
15	0830	8.2	299	.0	AUG				
29	1040	10	316	3.5	03	1025	2.9	324	22.0
FEB					15	0915	3.9	363	19.0
16	0815	15	304	.0	24	1120	4.2	394	21.9
APR					29	1105	14	280	18.6
04	1120	26	249	9.5					
19	0745	53	148	5.2					

07103780 MONUMENT CREEK ABOVE NORTH GATE BOULEVARD, AT U.S. AIR FORCE ACADEMY, CO--Continued PRECIPITATION RECORDS

PERIOD OF RECORD. -- April to September 2000 (seasonal records only).

 ${\tt GAGE.--Tipping-bucket}$ rain gage with satellite telemetry.

REMARKS.--Records good. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 1.56 inches, May 8, 2000.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 1.56 inches, May 8.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY SUM VALUES DAY OCT NOV лл AUG SEP DEC JAN FEB MAR APR MAY NUTL .00 .00 .00 .00 .01 ---------------3 ------.00 .00 .00 .11 .00 ------------.00 5 ___ ___ ___ e.00 .00 .00 .00 .01 .00 e.00 .00 .00 .00 .00 6 7 ___ ------.00 ------------------.00 .00 .00 1.56 .00 .00 .11 8 .00 .01 .00 .04 .00 10 ---___ ___ ___ ___ ___ .00 .00 .00 .00 .00 .00 .01 11 12 .00 .00 .03 .06 .00 ---------------.00 .00 .16 .00 .00 ------------------------------13 .00 .00 .00 .00 .04 .00 14 15 .00 .00 .00 .00 .20 .00 ---___ .13 .00 .00 .26 .00 .00 16 17 .07 .00 .05 ___ .00 .00 .00 ------------___ ---.00 .46 .17 .19 .54 .00 ------------18 .00 .13 .00 .04 .21 19 ------.00 .00 .04 .01 .01 .00 20 ---.00 .00 .01 .18 .06 21 22 ------------------.00 .00 .00 .00 .77 .43 .35 .04 .00 .00 .00 .00 ------------------23 .05 .24 24 .00 . 22 .00 .03 .00 .18 25 .00 .00 .55 .00 e.00 .42 26 27 ---------------.00 .03 e.00 ___ .35 .00 .06 .00 28 .00 .00 .10 .44 .00 .93 .17 .00 29 ___ ___ ___ ___ ___ ___ .14 0.0 01 .01 30 .22 .00 .00 .01 .00 31 ---------------.00 .00 .14 TOTAL MAX 2.41 1.56 1.98 .78 1.24 4.89 .93 0.92

e Estimated.

07103785 DEADMANS CREEK ABOVE DEADMANS LAKE AT U.S. AIR FORCE ACADEMY, CO

LOCATION.--Lat $39^{\circ}01^{\circ}27^{\circ}$, long $104^{\circ}54^{\circ}03^{\circ}$, in $NE^{1}/_{4}NW^{1}/_{4}$ sec.9, T.12 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank, 100 ft upstream from Deadmans Lake, 1.2 mi northwest of the Air Force Academy Chapel, 3.7 mi west of Interstate-25, and 5.0 mi southwest of Monument.

DRAINAGE AREA. -- 1.55 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- March to September 2000.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,220 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1.5 ${\rm ft^3/s}$, Apr. 9, 18, gage height, 4.05 feet, from rating curve extended above 0.90 ${\rm ft^3/s}$; no flow many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period March to September, 1.5 ${\rm ft^3/s}$, Apr. 9, 18, gage height, 4.05 ft, from rating curve extended above 0.90 ${\rm ft^3/s}$; no flow many days.

		DISCHAR	GE, CUBIC	FEET PER		WATER YE MEAN VA	AR OCTOBE	R 1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							.40	.94	.26	.08	.01	.15
2							.38	.85	.28	.08	.00	.08
3							.40	.76	.27	.10	.00	.07
4							.57	.67	.26	.08	.01	.06
5							.80	.65	.25	.07	.02	.06
3							.00	.03	.25	.07	.02	.00
6							1.0	.64	.23	.06	.01	.06
7							1.1	.57	.21	.05	.01	.06
8							1.0	1.0	.19	.05	.00	.06
9							1.2	.89	.16	.05	.00	.05
10							1.2	.75	.15	.05	.00	.05
11							1.1	.68	.15	.05	.00	.04
12							1.1	.64	.13	.04	.00	.05
13							1.2	.60	.10	.05	.00	.05
14							1.3	.61	.10	.04	.00	.04
15							1.2	.56	.09	.04	.00	.04
13							1.2	.50	.05	.01	.00	.01
16							1.2	.53	.10	.08	.00	.04
17							1.2	.57	.13	.08	.00	.04
18							1.3	.57	.11	.08	.06	.04
19							1.2	.63	.09	.05	.04	.04
20							1.2	.58	.08	.05	.02	.06
21							1.2	.49	.06	.04	.03	.09
22							1.1	.46	.06	.05	.06	.11
23							1.2	.42	.05	.03	.04	.11
24							1.1	.45	.05	.02	.03	.11
25							1.1	.47	.05	.03	.07	.14
26							1.0	.41	.20	.04	.10	.11
27							1.0	.37	.30	.04	.04	.09
28							.97	.33	.26	.03	.04	.09
29							.92	.30	.20	.02	.28	.08
30							1.0	.28	.11	.02	.25	.08
31						.37		.27		.01	.11	
TOTAL							30.64	17.94	4.68	1.56	1.23	2.15
MEAN							1.02	.58	.16	.050	.040	.072
MAX							1.3	1.0	.30	.10	.28	.15
MIN							.38	.27	.05	.01	.00	.04
AC-FT							61	36	9.3	3.1	2.4	4.3

07103785 DEADMANS CREEK ABOVE DEADMANS LAKE, AT U. S. AIR FORCE ACADEMY, CO--Continued PRECIPITATION RECORDS

PERIOD OF RECORD.--April to September 2000 (seasonal records only).

GAGE.--Tipping-bucket rain gage with satellite telemetry.

REMARKS.--Records are good. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 1.66 inches, May 8, 2000.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 1.66 inches, May 8.

	PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY SUM VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1							.29	.01	.00	.00	.00	.03		
2							.09	.00	.00	.34	.00	.00		
3							.17	.00	.00	.03	.01	.00		
4							.01	.00	.00	.00	.13	.01		
5							.00	.00	.00	.00	.00	.01		
6							.00	.00	.00	.00	.00	.00		
7							.00	.00	.00	.03	.00	.00		
8							.00	1.66	.00	.00	.00	.00		
9							.00	.06	.00	.00	.00	.00		
10							.00	.00	.00	.00	.00	.00		
11							.01	.00	.02	.01	.00	.00		
12							.01	.00	.00	.01	.00	.00		
13							.00	.00	.00	.01	.04	.00		
14							.00	.00	.00	.00	.10	.00		
15							.02	.00	.00	.68	.01	.00		
16							.20	.00	.03	.01	.05	.00		
17							.00	.87	.31	.16	.33	.00		
18							.00	.11	.01	.02	.31	.00		
19							.00	.00	.08	.00	.04	.00		
20							.00	.03	.00	.00	.06	.16		
21							.00	.00	.00	.00	.41	.67		
22							.11	.00	.00	.00	.38	.02		
23							.07	.00	.00	.01	.00	.22		
24							.01	.34	.00	.21	.00	.04		
25							.00	.01	.66	.00	.97	.43		
26							.00	.06	1.06	.23	.01	e.00		
27							.00	.00	.34	.00	.04	.00		
28							.00	.00	.06	.00	.43	.00		
29							.22	.00	.02	.00	1.54	.00		
30							.33	.00	.03	.00	.10	.00		
31								.00		.00	.39			
TOTAL							1.54	3.15	2.62	1.75	5.35	1.59		
MAX							.33	1.66	1.06	.68	1.54	.67		

e Estimated.

07103790 MONUMENT CREEK BELOW SEWAGE TREATMENT PLANT AT U.S. AIR FORCE ACADEMY, CO

LOCATION.--Lat 38°58'53", long 104°49'50", in NW¹/₄NW¹/₄ sec.30, T.12 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on right bank, at U.S. Air Force Academy, 100 ft upstream from Sante Fe Recreation Trail footbridge, 1.0 mi west of Interstate 25, 1.2 mi southeast of Falcon Stadium, and 1.5 mi northwest of the south entrance to the U.S. Air Force Academy.

DRAINAGE AREA.--122 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- April to September 2000 (seasonal records only).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,420 ft above sea level, from topographic map.

REMARKS.—Records fair except for estimated daily discharges, and those above 50 ft³/s, which are poor. Natural flow of stream affected by storage reservoirs, diversions for municipal use and sewage discharge. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data for Gaging Stations" section of this report.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge 78 ft³/s, May 8, 2000, gage height 4.21 ft, from rating curve extended above 44 ft³/s; minimum daily, 3.4 ft³/s, Aug. 13-14, 2000.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge 78 ${\rm ft}^3/{\rm s}$ at 1745 May 8, gage height 4.21 ft, from rating curve extended above 44 ${\rm ft}^3/{\rm s}$; minimum daily, 3.4 ${\rm ft}^3/{\rm s}$, Aug. 13-14.

					DAILY	MEAN VAI	LUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							35	42	19	8.1	4.9	8.2
2							33	43	19	8.0	4.8	5.3
3							33	41	12	9.0	4.8	5.0
4							32	41	9.2	8.2	5.9	5.1
5							34	39	8.7	7.4	6.1	5.3
-							91	3,	0.,	,	0.1	3.3
6							41	33	9.9	6.8	5.2	5.0
7							48	27	10	7.3	4.4	5.0
8							48	55	9.5	7.4	3.9	5.0
9							48	54	11	7.1	4.0	4.8
10							48	41	9.2	6.9	4.3	4.8
11							50	40	9.3	7.8	4.1	5.2
12							50	37	9.5	8.9	4.0	5.4
13							51	34	8.9	8.5	3.4	4.5
							53				3.4	
14 15							53 54	31 29	9.4 e9.7	7.3 6.9	3.4	4.0 3.9
13							54	29	e9.7	0.9	3.6	3.9
16							52	17	10	7.6	4.0	3.6
17							48	26	10	8.6	5.1	3.8
18							46	38	9.6	9.3	7.8	4.2
19							51	35	9.3	7.2	7.6	3.9
20							45	31	8.4	7.4	5.1	4.7
0.1							4.5	0.5	<i>c</i> =		- 0	- 4
21							47	25	6.5	6.8	6.9	5.4
22							45	18	6.4	7.2	9.6	8.6
23							40	19	6.4	6.6	7.9	7.3
24							43	25	7.5	6.3	5.6	9.7
25							42	31	e9.2	6.5	5.4	8.1
26							42	27	e16	6.1	11	7.0
27							41	18	e15	6.2	7.0	6.4
28							41	17	13	5.7	6.2	6.3
29							40	14	11	6.0	18	6.1
30							51	15	9.1	5.5	11	5.9
31								20		4.9	6.7	
								20			•••	
TOTAL							1332	963	311.7	223.5	191.7	167.5
MEAN							44.4	31.1	10.4	7.21	6.18	5.58
MAX							54	55	19	9.3	18	9.7
MIN							32	14	6.4	4.9	3.4	3.6
AC-FT							2640	1910	618	443	380	332

e Estimated.

07103790 MONUMENT CREEK BELOW SEWAGE TREATMENT PLANT, AT U.S. AIR FORCE ACADEMY, CO--Continued PRECIPITATION RECORDS

PERIOD OF RECORD.--April to September 2000 (seasonal records only).

GAGE.--Tipping-bucket rain gage with satellite telemetry.

REMARKS.--Records good. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 1.62 inches, May 8, 2000.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 1.62 inches, May 8.

		PRECI	PITATION,	TOTAL,		WATER YEAR		1999 TO	SEPTEMBER	2000		
					DAI	LY SUM VAL	UES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								.01	.00	.00	.00	.00
2								.00	.00	.36	.02	.00
3								.00	.00	.00	.00	.00
4								.00	.00	.00	.09	.01
5							.00	.00	.00	.00	.05	.00
6							.00	.00	.00	.00	.00	.00
7							.00	.00	.00	.00	.00	.00
8							.00	1.62	.00	.00	.00	.00
9							.00	.01	.00	.00	.00	.00
10							.00	.00	.00	.00	.00	.00
11							.02	.00	.00	.00	.00	.00
12							.01	.00	.00	.00	.00	.00
13							.00	.00	.00	.00	.06	.00
14							.00	.00	.00	.00	.01	.00
15							.14	.00	.00	.16	.00	.00
16							.00	.00	.00	.00	.02	.00
17							.00	.45	.20	.50	.42	.00
18							.00	.08	.00	.08	.00	.00
19							.00	.00	.03	.38	.10	.00
20							.00	.00	.00	.01	.00	.05
21							.00	.00	.00	.00	.71	.27
22							.03	.00	.00	.08	.26	.01
23							.07	.00	.00	.01	.00	.28
24							.01	.21	.00	.03	.00	.21
25							.00	.00	.48	.00	.29	.00
26							.00	.04	1.10	.05	.05	e.00
27							.00	.00	.32	.00	.02	.00
28							.00	.00	.00	.06	.62	.00
29							.14	.00	.03	.01	.32	.00
30							.20	.00	.00	.00	.01	.00
31								.00		.00	.13	
TOTAL								2.42	2.16	1.73	3.18	0.83
MAX								1.62	1.10	.50	.71	.28

e Estimated.

07103797 WEST MONUMENT CREEK BELOW RAMPART RESERVOIR, CO

LOCATION.--Lat $38^\circ58^\circ30^\circ$, long $104^\circ57^\circ18^\circ$, in $\mathrm{NE}^1/_4\mathrm{SE}^1/_4$ 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.--No estimated daily discharges. Records good. 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.

		DISCHA	RGE, CUBI	C FEET PER		WATER YE MEAN VA	AR OCTOBER LUES	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	6.3 6.3 6.3 6.3	3.3 3.3 3.2 3.2 3.1	6.2 6.3 6.2 6.2	6.7 6.7 6.7 6.7	6.8 7.0 7.1 7.1 7.1	5.1 4.6 4.1 4.0 4.1	3.9 3.9 3.9 4.3 4.3	3.8 3.7 3.6 3.6 3.9	3.4 3.4 3.3 3.5	3.5 3.5 3.5 3.4 3.3	4.2 4.3 4.3 4.5 4.4	3.5 3.4 3.4 3.3 3.3
6 7 8 9 10	5.7 4.6 4.2 4.0 4.0	7.4 10 9.8 9.6 8.4	6.2 6.3 6.2 6.2 6.2	6.6 6.4 6.1 6.1	7.1 7.1 7.1 7.1 7.2	4.1 4.2 4.2 4.1 4.1	4.3 3.7 3.6 3.7 3.7	4.4 4.3 5.4 5.1 4.9	3.6 3.6 3.7 5.2 5.4	3.3 3.3 3.4 3.3 3.3	4.3 4.2 4.1 4.1 4.1	3.2 3.1 3.1 3.1 3.1
11 12 13 14 15	3.7 3.6 3.5 3.8 4.0	7.4 6.3 5.8 5.5	6.2 6.2 6.1 5.9 5.9	6.2 6.2 6.2 6.2 6.2	7.2 7.1 7.1 7.2 7.2	4.1 4.1 4.1 4.2 4.1	3.6 3.6 3.7 3.7	4.8 4.8 4.3 3.8 3.7	5.4 5.4 5.4 5.4 5.3	3.3 3.5 3.6 3.6 3.7	4.1 3.9 3.9 3.9 3.9	3.1 3.0 3.0 3.0 3.0
16 17 18 19 20	4.0 4.0 4.0 4.1 3.7	4.9 4.9 4.9 4.8 4.9	5.9 6.1 6.1 6.1	6.2 6.2 6.2 6.3 6.3	7.2 7.2 7.2 7.2 7.2	4.2 4.2 4.1 4.0 4.0	3.5 3.6 3.8 3.8 3.6	3.6 3.6 3.7 3.6 3.5	5.3 5.2 5.1 5.1 5.0	3.8 3.7 3.6 3.6 3.8	3.8 3.7 3.8 3.8 3.8	3.0 3.3 3.6 3.6 3.6
21 22 23 24 25	3.3 3.3 3.3 3.3 3.3	4.9 4.9 4.9 4.9 5.1	6.1 6.1 6.2 6.4	6.3 6.4 6.5 6.7 6.8	7.2 7.2 7.1 7.1 6.8	4.0 4.0 4.1 4.2 4.3	3.6 3.6 3.7 3.6 3.5	3.4 3.6 3.8 4.0 4.1	4.9 4.7 4.7 4.7 4.8	4.0 4.1 4.1 4.3 4.3	3.7 3.5 3.4 3.4	3.7 3.8 3.4 3.2 3.2
26 27 28 29 30 31	3.2 3.3 3.3 3.3 3.3 3.3	5.4 5.7 5.9 6.0 6.0	6.4 6.4 6.4 6.4 6.4	6.8 6.8 6.8 6.8 6.8	6.6 6.7 6.7 6.2	4.4 4.5 4.4 4.2 3.9 3.9	3.5 3.5 3.6 3.8 4.0	3.9 3.8 3.7 3.6 3.5 3.4	5.2 4.9 3.9 3.6 3.5	4.3 4.3 4.3 4.3 4.3	3.4 3.3 3.2 3.7 3.7 3.5	3.6 3.8 3.9 3.9
TOTAL MEAN MAX MIN AC-FT	128.6 4.15 6.3 3.2 255	5.65 10 3.1 336	6.4 5.9 381	200.5 6.47 6.8 6.1 398	7.2 6.2 405	4.18 5.1 3.9 257	4.3 3.5 223	122.9 3.96 5.4 3.4 244	4.53 5.4 3.3 270	116.6 3.76 4.3 3.3 231	119.3 3.85 4.5 3.2 237	101.0 3.37 3.9 3.0 200
							BY WATER					- 15
MEAN MAX (WY) MIN (WY)	4.96 10.1 1995 3.55 1999	5.77 10.6 1995 3.48 1998	6.46 9.68 1994 3.82 1998	6.20 9.36 1996 3.69 1999	6.40 8.75 1996 3.91 1999	6.09 10.7 1994 4.18 2000	6.28 10.5 1996 3.74 2000	7.82 17.5 1996 3.44 1998	7.66 15.1 1996 3.79 1998	8.96 20.6 1994 3.76 2000	8.12 15.7 1994 3.85 2000	6.45 12.2 1994 3.37 2000
SUMMARY	Y STATIST	ICS	FOR	1999 CALEN	IDAR YEAR	F	OR 2000 WA	TER YEAR		WATER Y	EARS 1994	- 2000
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			1871.5 5.13 10 3.1 3.2 3710 7.2 4.6 3.6	Nov 7 Nov 5 Oct 30		1732.4 4.73 10 3.0 3.0 12 4.77 3440 6.8 4.1 3.3	Nov 7		6.1 10.0 4.1 29 1.4 3.0 a46 5.5 4450 12 5.4	Jul Jan Dec Jun	1996 1998 10 1994 14 1997 8 1996 6 1997 6 1997	

a From rating curve extended above 30 ft³/s.

07103800 WEST MONUMENT CREEK AT U.S. AIR FORCE ACADEMY, CO

LOCATION.--Lat $38^{\circ}58^{\circ}14^{\circ}$, long $104^{\circ}54^{\circ}08^{\circ}$, in $SW^{1/}_{4}SW^{1/}_{4}$ 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.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS. -- WDR CO-99-1: 1997 (M).

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, 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		DISCHA	RGE, CUBI	C FEEI PE		MEAN VA	LUES	1999 10	SEPIEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	1.4	1.1	.95 .94	.82	e.84 e.86 .88 .89	.95 .95	1.5 1.5	2.7	1.1	.77 .72	.42	.70 .60
3 4 5	1.3 1.3 1.3	1.1 1.0 1.0	.96 1.0 e.96	.76	.88	.91	2.3 7.4 6.4	2.4 2.4 2.2	1.1 1.0 .99	.77 .68 .64	.42 .44 .46	.57 .53 .52
6	1.3			.73	.95					.59	.43	2.1
7 8	1.6 3.3	1.0	.92 .91 .89 e.89	.71 .80	.95 .97	.99 .91	2.9 2.8 2.8 3.7 8.5	2.0 2.0 3.3 3.1 2.7	.94 .91 .87 .85	.86 2.4	.42	.64 .53
9 10	5.0 2.6	1.0 .97	e.89 .89	.77 .73	.96 .96	.88 .88	3.7 8.5	3.1 2.7	.85 .81	1.6 .62	.40 .41	.50 .48
11 12	1.4	.95 .95	.88 e.88	.79 .78	.95 .95	e.84 .88	3.8 5.6	2.5	.82 .77	.58 .55	.41	.47
13	1.3	.95	.87	.73	.95	.88	9.4	2.3	.76	.56	.40	.46
14 15	1.2	.93 .93	e1.0 e.90	.74 .73	.98 .97	.88 .89	5.6 9.4 8.4 3.5	2.3	.76 .71	.53 .59	.49 .77	.43 1.6
16 17	1.3	.93 .95	.87 .86	.74 .82	.95 .97	1.0	3.3	2.3 2.2 2.1 2.0	.72 .82	.64 .61	.51 .51	1.7
18	1.3	.92	.83	.83	.97	1.9	3.4	2.1	.77	.58	.62	.44
19 20	1.3	.88 .95	.80 e.80	e.83 e.86	.95 e.92	7.7 5.6	3.3 3.2	1.8	.72 .74	.53 .52	.52 .50	.43 .45
21 22	1.2	.94 .98	e.80	.85	.91 .95 .93 .94	1.3	5.3 3.3 3.3 3.3 3.1	1.7	.67 .64 .63	.52 .51	.63 .68	.53 .57
23	15	.97	.82 .80 .80	.83 e.83 e.85	.93	1.2	3.3	1.5	.63	.50	.53	.55
24	11	e.98	.80	e.85	.94	1.3	3.3	1.5	.64	.49	.50	.58
25 26	5.8	e.98 1.0	.80						.68	.47	.50 .50	.71 1.5
27	4.0 1.7	.97 .95	.80	.90	e.86 .90	1.5 1.5 1.6 1.6	3.0	1.4	1.1 1.2 .92 .85 .77	.47	.48	1.3
28	1.2	.95	.80	e.87	.94	1.6	3.0	1.3	.92	47	4.0	1.2
29 30	1.7 1.2 1.1	.94 .95	.80	e.87	.96	1.6	2.8	1.3	.85	.46 .44	1.2	1.0 .69
31	1.1		.80	e.89 .90 e.87 e.87 e.87 e.84		1.5	3.1 3.0 3.0 2.8 2.9	1.2		.43	1.2 .90 .68	
TOTAL	83.7	29.27	26.82				120.1		25.36		16.47	22.67
MEAN MAX	2.70 15	.98 1.1	.87 1.0	.81 .90	.93 .98	1.51 7.7	4.00 9.4	2.03	.85 1.2	.66 2.4	.53 1.2	.76 2.1
MIN	1.1	.88	.80	.71	.84	.84	1.5	1.2	.63	.43	.40	.43
AC-FT	166	58	53	50	54	93	238	125	50	41	33	45
STATIST	rics of M	ONTHLY ME		FOR WATER	YEARS 1970		BY WATER Y	YEAR (WY)			
MEAN	1.90	1.26	.96	.71	.49	.55	2.19	7.33	4.70	2.38	2.78	1.78
MAX (WY)	11.7 1972	7.74 1971	8.62 1971 .000 1994	8.78 1971	4.21 1999	2.46 1971	12.4 1971	41.2 1999	30.6 1997	23.3 1970	23.8 1970	20.3 1970
MIN	.000	.000	.000	.000	.000	.001	.11	.20	.031	.017	.000	.000
(WY)	1993			1993	1976	1991	1989	1976	1976	1993	1993	1993
	7 STATIST	ICS	FOR			F	OR 2000 WAS			WATER Y	EARS 1970	- 2000
			Ī				506.90 1.38			2.0 13.4 .1	.0	1971 1993
HIGHEST	DAILY M	IEAN		e116	Apr 30		15	Oct 23		e116	Apr	30 1999
LOWEST	DAILY ME	AN Y MINIMUM	ī	.6	2 Mar 17 3 Mar 12		.40	Aug 9 Aug 7		a.0 .0	0 Jan	29 1976 29 1976
INSTANT	TANEOUS P	EAK FLOW		.0	J Mai 12		16	Oct 23		b132	Apr	30 1999
INSTANT	PANEOUS P	EAK STAGE		5110				Oct 23		c3.4 1460		30 1999
ANNUAL 10 PERC	RUNOFF (CENT EXCE	AC-FT) EDS		28			1010 2.8			1460		
50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				2.1			.93			.5	5	
90 PERO	CENT EXCE	EDS		.8	U		.50			.0	6	
o Pati	mated											

e Estimated.
a No flow many days during 1976, 1991-92.
b From rating curve extended above 105 ft³/s.
c From floodmarks, maximum gage height, 3.88 ft, Dec. 22, 1983, backwater from ice.

07103800 WEST MONUMENT CREEK AT U.S. AIR FORCE ACADEMY, CO--Continued PRECIPITATION RECORDS

PERIOD OF RECORD. -- May to September 2000 (seasonal records only).

GAGE. -- Tipping-bucket rain gage with satellite telemetry.

REMARKS.--Records good. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 0.97 inch, June 26, 2000.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 0.97 inch, June 26.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY SUM VALUES DAY OCT NOV πп AUG SEP DEC JAN FEB MAR APR MAY NUTL .00 .00 .00 .00 ------------3 ------------.00 .01 .00 .00 ---------------.00 5 ___ ___ ___ ___ ___ .00 .00 .01 .00 .00 .00 . 01 6 7 ___ ---.00 ------------------------.00 .00 .00 .00 8 .00 .00 .00 .00 10 ---___ ___ ___ ---___ ------.01 .00 .00 .00 .00 .02 11 12 ---.00 .00 ------------.00 .02 .00 .00 ---------------------------------13 .00 .00 .02 .07 .00 14 15 .00 .00 .00 .88 .00 ___ ---___ .00 .00 .47 .00 .00 16 17 .00 .07 .00 .00 .00 ---------------------.00 .60 .21 .13 .39 ------------------18 .03 .00 .01 .00 19 ---.00 .04 .08 .05 .00 20 ---.00 .02 .02 .08 21 22 ---------------------.00 .00 .03 .73 .60 .04 .00 .00 .06 .02 23 24 ---------------------.00 .33 .00 .05 .00 . 01 25 .01 .30 .00 .13 .39 26 27 ------------------.06 .05 .02 .00 ---.33 28 .00 .02 .00 .46 .00 ___ 29 ___ ___ ___ ___ ___ ___ 0.0 0.4 .00 .92 0.0 30 .02 .00 .00 .00 .00 31 ------------.00 .00 .12 1.94 1.16 .47 4.10 1.35 TOTAL MAX

07103930 WEST MONUMENT CREEK AT MOUTH, AT U.S. AIR FORCE ACADEMY, CO

LOCATION.--Lat $38^{\circ}57^{\circ}32^{\circ}$, long $104^{\circ}50^{\circ}08^{\circ}$, in $NW^{1}/_{4}SE^{1}/_{4}$ sec.36, T.12 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank 75 ft downstream from Union Pacific railroad bridge at U. S. Air Force Academy, 0.2 mi north of Ice Lake, and 2.0 mi west of Interstate 25.

DRAINAGE AREA.--23.5 mi².

PERIOD OF RECORD. -- March to September 2000.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,380 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 and diversions above the station by the Pine Creek/McCullough Water Treatment Plant and others. Several measurements 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, 19 $\mathrm{ft^3/s}$, Apr. 14, 2000, gage height, 4.66 ft, from rating curve extended above 10 $\mathrm{ft^3/s}$; minimum daily, 0.02 $\mathrm{ft^3/s}$, Aug. 12, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period March to September, 19 $\rm ft^3/s$ at 1630 Apr. 14, gage height, 4.66 ft, from rating curve extended above 10 $\rm ft^3/s$; minimum daily, 0.02 $\rm ft^3/s$, Aug. 12.

		DISCHAR	GE, CUBIC	FEET PER		WATER YE MEAN VA		R 1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							2.1	2.7	1.7	1.3	.32	.74
2							3.0	e2.5	2.1	1.1	.33	.66
3							3.0	e3.0	2.0	1.1	.35	.63
4							7.1	e3.5	1.6	.98	.18	.58
5							9.6	e2.5	1.8	.86	.14	.55
6							6.4	.97	1.7	.75	.12	.82
7							4.9	1.3	1.5	.68	.10	.85
8							6.4	3.8	1.4	1.4	.10	.55
9							7.1	4.2	1.4	1.4	.08	.48
10							15	3.7	1.3	.74	.05	.41
11							8.6	3.3	1.2	.67	.03	.38
12							8.9	4.0	1.2	.59	.02	.38
13							14	4.6	1.1	.61	.03	.36
14							16	4.5	1.2	.56	.08	.34
15							8.3	3.3	.97	.55	.32	.46
16							7.5	2.0	1.1	.68	.37	1.0
17							7.3	4.2	1.3	.74	.43	.44
18							7.8	4.3	1.4	.72	.62	.41
19							7.6	4.2	1.2	.64	.50	.40
20							7.1	4.2	1.2	.63	.49	.42
21							7.6	3.4	1.1	.55	.54	.46
22							7.9	2.8	1.0	.55	.71	.61
23							e7.6	2.6	.95	.52	.58	.65
24						e2.6	e7.4	2.9	.93	.46	.36	.72
25						2.7	e7.2	3.4	.95	.42	.29	.78
26						1.6	e7.0	2.9	1.9	.44	.40	1.3
27						1.5	6.1	2.6	2.5	.35	.38	1.4
28						1.5	4.2	1.8	2.2	.30	.37	1.2
29						1.7	4.6	1.2	1.8	.32	.63	1.4
30						2.6	4.1	1.2	1.4	.34	.71	.98
31						2.3		1.1		.37	.65	
TOTAL							221.4	92.67	43.10	21.32	10.28	20.36
MEAN							7.38	2.99	1.44	.69	.33	.68
MAX							16	4.6	2.5	1.4	.71	1.4
MIN							2.1	.97	.93	.30	.02	.34
AC-FT							439	184	85	42	20	40

e Estimated.

07103940 MONUMENT CREEK AT SOUTH BOUNDARY, AT U.S. AIR FORCE ACADEMY, CO

LOCATION.--Lat $38^\circ57^\circ15^\circ$, long $104^\circ50^\circ00^\circ$, in $NE^1/_4NE^1/_4$ sec.1, T.13 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank at the south boundary of the U. S. Air Force Academy, 400 feet downstream from the Sante Fe Recreation Trail footbridge, 0.2 mi south of Ice Lake, and 1.5 mi west of Interstate 25.

DRAINAGE AREA.--150 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- March to September 2000.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,350 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 and diversions above the station for the municipal supply of Monument and discharge from the sewage treatment facility upstream of the 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 100 ft 3 /s, Apr. 19, 2000, from rating curve extended above 58 ft 3 /s, gage height, 4.47 ft; minimum daily, 4.7 ft 3 /s, Sept. 15.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period March to September, 100 ft 3 /s, at 1215 Apr. 19, gage height, 4.47 ft, from rating curve extended above 58 ft 3 /s; minimum daily, 4.7 ft 3 /s, Sept. 15.

		DISCHAR	GE, CUBIC	FEET PER	SECOND, DAILY	WATER YEA		R 1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							39	43	21	12	7.2	14
2							39	43	21	12	7.0	12
3							e38	43	e14	12	6.5	11
4							e42	41	13	11	7.9	11
5							48	41	e13	11	9.1	11
6							48	36	15	9.1	8.6	11
7							48	33	13	9.8	7.6	11
8							52	60	12	11	6.9	10
9							57	62	12	9.9	6.2	8.4
10							62	48	9.8	9.5	6.7	7.4
11							56	46	10	10	6.8	6.3
12							59	45	11	10	6.9	6.0
13							63	42	10	9.3	7.0	5.1
14							66	40	11	8.5	6.8	4.8
15							60	37	12	8.0	7.7	4.7
16							56	25	13	9.1	8.4	5.6
17							54	33	13	9.6	9.4	4.9
18							55	44	13	9.2	13	5.1
19							60	42	12	8.7	12	5.2
20							50	39	12	8.8	9.0	5.9
21							55	33	9.7	7.5	12	6.9
22							55	26	9.7	7.6	14	10
23							48	e21	9.5	7.4	10	9.7
24						e33	54	29	12	e7.5	8.3	11
25						e33	52	35	13	e7.4	8.3	9.8
26						e32	50	32	18	e7.4	13	9.6
27						32	48	22	20	e7.5	9.7	9.1
28						32	43	21	16	7.6	10	8.5
29						35	42	18	14	7.2	22	8.5
30						41	51	19	13	5.9	15	7.7
31						45		21		6.2	13	
TOTAL							1550	1120	395.7	277.7	296.0	251.2
MEAN							51.7	36.1	13.2	8.96	9.55	8.37
MAX							66	62	21	12	22	14
MIN							38	18	9.5	5.9	6.2	4.7
AC-FT							3070	2220	785	551	587	498

e Estimated.

07103940 MONUMENT CREEK AT SOUTH BOUNDARY, AT U.S. AIR FORCE ACADEMY, CO--Continued PRECIPITATION RECORDS

PERIOD OF RECORD.--April to September 2000 (seasonal records only).

GAGE.--Tipping-bucket rain gage with satellite telemetry.

REMARKS.--Records good. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 1.83 inches, May 8, 2000.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 1.83 inches, May 8.

		PREC1	IPITATION,	TOTAL, I		ATER YEAR SUM VALU		1999 TO SI	EPTEMBER :	2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								.01	.00	.00	.00	.01
2								.00	.02	.28	.19	.00
3								.00	.00	.01	.01	.00
4								.00	.00	.00	.33	.00
5							.00	.00	.00	.00	.00	.00
6							.00	.00	.00	.00	.00	.00
7							.00	.00	.00	.00	.00	.00
8							.00	1.83	.00	.00	.00	.00
9							.00	.00	.00	.00	.00	.00
10							.00	.00	.00	.00	.00	.00
11							.04	.00	.00	.00	.00	.00
12							.00	.00	.00	.00	.00	.00
13							.00	.00	.00	.00	.07	.00
14							.00	.00	.00	.00	.03	.00
15							.10	.00	.00	.29	.00	.00
16							.00	.00	.00	.02	.01	.00
17							.00	.45	.15	.26	.41	.00
18							.00	.02	.00	.01	.00	.00
19							.00	.00	.13	.02	.08	.00
20							.00	.00	.00	.01	.00	.02
21							.00	.00	.00	.03	.44	.21
22							.02	.00	.00	.03	.09	.00
23							.12	.00	.00	.01	.01	.32
24							.00	.29	.00	.01	.00	.18
25							.00	.01	.18	.00	.35	e.00
26							.00	.00	1.20	.00	.09	.00
27							.00	.00	.28	.00	.09	.00
28							.00	.00	.00	.09	.73	.00
29							.08	.00	.11	.01	.30	.00
30							.11	.00	.00	.00	.01	.00
31								.00		.00	.11	
TOTAL								2.61	2.07	1.08	3.35	0.74
MAX								1.83	1.20	.29	.73	.32

e Estimated.

07103960 KETTLE CREEK ABOVE U. S. AIR FORCE ACADEMY, CO

LOCATION.--Lat $38^\circ58'34"$, long $104^\circ47'55"$, in $\mathrm{NW}^1/_4\mathrm{SE}^1/_4$ sec.29, T.12 S, R.66 W., El Paso County, Hydrologic Unit 11020003, on right bank 70 ft downstream from Highway 83, 0.5 mi upstream from Kettle Creek dam, 0.6 mi east of Interstate 25, and 2.7 mi upstream from mouth.

DRAINAGE AREA.--16.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- April to September 2000 (seasonal records only).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,620 ft above sea level, from topographic map.

REMARKS.—Records fair except for estimated daily discharges and those above 3.2 ft³/s, which are poor. Natural flow of stream affected by runoff from industrial and residential areas of northeast 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 (seasonal only).--Maximum discharge, 37.0 ft³/s, July 17, 2000, gage height, 4.40 ft, from rating curve extended above 3.2 ft³/s; minimum daily, 0.09 ft³/s (estimated), Aug. 15, 2000.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 37.0 ft³/s at 1545 July 17, gage height 4.40 ft, from rating curve extended above 3.2 ft³/s; minimum daily, 0.09 ft³/s (estimated), Aug. 15.

DISCHARGE, CUBIC FEET PER SECOND, WAITER YEAR OCTOBER 1999 TO SEPTEMBER 2000

	DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1							1.8	2.8	.44	.78	e.30	.40	
2							1.5	3.3	.37	.52	e.30	.41	
3							1.7	2.9	.85	.60	e.30	.44	
4							1.7	2.6	.95	.57	e.28	.30	
5							2.3	3.5	.97	.48	e.26	.20	
3							2.5	3.3	,	. 10	C.20	.20	
6							1.8	3.5	.91	.38	e.24	.26	
7							1.3	3.0	.98	.42	e.22	.28	
8							1.3	3.4	.96	.43	e.20	.24	
9							1.7	2.6	.89	.33	e.17	e.22	
10							3.1	3.2	.88	.33	e.15	e.20	
11							4.1	3.0	1.1	.38	e.14	e.26	
12							3.1	3.8	.99	e.36	e.12	e.24	
13							2.4	4.4	.78	.35	e.11	e.24	
							2.4					e.24 e.24	
14 15							3.7	4.4 3.5	.65 .87	.34	e.10 e.09	e.24 e.22	
15							3.7	3.5	.87	.53	e.09	e.22	
16							3.7	3.0	1.1	.71	e.10	e.22	
17							3.6	3.2	.93	1.4	e.14	e.20	
18							3.4	2.7	.55	e.80	.16	e.20	
19							2.0	3.0	.75	e.50	.21	e.20	
20							1.4	2.3	.61	.41	.28	e.22	
0.1							1 4	1 5	65	2.0	1.0	20	
21							1.4	1.7	.65	.39	1.8	e.30	
22							1.2	1.3	.57	.39	2.0	e.26	
23							1.4	1.4	.61	.34	e1.0	e.24	
24							1.6	2.0	.54	.27	e.60	e.26	
25							1.7	1.6	.42	.22	.50	.28	
26							2.0	1.5	.59	.32	.32	.36	
27							2.2	.97	.40	.32	.40	.34	
28							2.2	.86	.66	.45	.70	.45	
29							2.4	.65	.82	e.40	.54	.48	
30							2.6	.57	.83	e.35	.40	.38	
31								.67		e.30	.37		
-													
TOTAL							66.4	77.32	22.62	14.37	12.50	8.54	
MEAN							2.21	2.49	.75	.46	.40	.28	
MAX							4.1	4.4	1.1	1.4	2.0	.48	
MIN							1.2	.57	.37	.22	.09	.20	
AC-FT							132	153	45	29	25	17	

e Estimated.

arkansas river basin 225

07103960 KETTLE CREEK ABOVE U.S. AIR FORCE ACADEMY, CO--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--April to September 2000 (seasonal records only).

 ${\tt GAGE.--Tipping-bucket}$ rain gage with satellite telemetry.

REMARKS.--Records good. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 1.88 inches, May 8, 2000.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 1.88 inches, May 8, but may have been higher during period of missing record, Aug. 3-23.

		PRECI	PITATION,	TOTAL,		WATER YEAR		1999 TO	SEPTEMBER	2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							.05	.00	.00	.00	.00	.01
2							.01	.00	.08	.24	.01	.01
3							.00	.00	.00	.01		.00
4							.00	.00	.00	.00		.00
5							.00	.00	.00	.00		.00
6							.00	.00	.00	.00		.00
7							.00	.00	.00	.00		.00
8							.00	1.88	.00	.00		.00
9							.00	.00	.00	.00		.00
10							.00	.00	.00	.00		.00
11							.03	.00	.00	.00		.00
12							.00	.00	.00	.02		.00
13							.00	.00	.00	.00		.00
14							.00	.00	.00	.00		.00
15							.08	.00	.00	.38		.00
16							.00	.00	.00	.02		.00
17							.00	.28	.20	.04		.00
18							.00	.08	.00	.13		.00
19							.00	.00	.04	.01		.00
20							.00	.00	.00	.00		.05
21							.00	.00	.00	e.00		.33
22							.01	.00	.00	.03		.01
23							.20	.00	.00	.01		.22
24							.00	.19	.00	.01	.00	e.25
25							.00	.00	.33	.00	.49	e.00
26							.00	.05	1.06	.02	.13	.00
27							.00	.01	.20	.00	.08	.00
28							.00	.00	.01	.23	.68	.00
29							.17	.00	.01	.00	.28	.00
30							.19	.00	.00	.00	.00	.00
31								.00		.00	.06	
TOTAL							0.74	2.49	1.93	1.15		0.88
MAX							.20	1.88	1.06	.38		.33

e Estimated.

07103970 MONUMENT CREEK ABOVE WOODMEN ROAD, AT COLORADO SPRINGS, CO

LOCATION.--Lat $38^\circ56^\circ02^\circ$, long $104^\circ49^\circ00^\circ$, in $SW^1/_4NE^1/_4$ 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 current year.

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 6,270 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by runoff from industrial and residential areas of northeast Colorado Springs.

		DISCHAR	GE, CUBIC	C FEET PER			AR OCTOBER	1999 TO	SEPTEMBE	R 2000		
						MEAN VAI						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	26 24	25 25	23 23	22 24	21 e21	e20 22	44 44	51 50	27 26	16 18	10 13	17 12
3 4	25 27	26 26	26 24	21 21	22 23	22 24	43 44	49 48	20 17	20 16	11 13	14 13
5	28	23	24	e23	23	24	49	47	16	15	12	13
6 7	28 34	23 23	26 23	e24 e24	24 24	26 30	49 53	41 37	17 17	14 14	12 11	13 12
8	32 33	24 22	23 23	e25 e25	24 24	31 23	57 57	130 72	17 18	15 16	11 11	12 11
10	30	22	24	e26	23	24	63	54	14	14	11	11
11 12	32 31	22 22	22 21	e24 e24	23 23	23 25	59 60	52 50	14 15	13 16	11 11	11 11
13	30	21	20	e25	23	24	64	46	18	14 13	11 11	9.9
14 15	31 33	21 21	21 e18	e25 e24	24 23	24 25	66 63	44 41	18 18	35	11	9.3 9.1
16 17	35 35	20 21	e19 e20	25 25	23 23	35 32	59 57	31 40	19 23	19 47	11 16	9.7 9.5
18 19	35 33	21 21	e21 e20	25 24	e23 23	30 29	58 63	49 45	20 19	18 15	15 11	9.6 9.6
20	32	21	e19	24	21	32	57	42	18	16	9.9	10
21 22	31 31	22 e23	e18 e19	24 23	21 22	28 32	59 58	36 29	15 15	15 14	25 18	13 13
23	36	e23	e20	22	e22	34	56	28	15	13	14	17
24 25	34 29	e24 e23	e20 e19	e21 e20	22 e21	34 33	58 54	40 42	16 18	13 12	11 20	14 9.4
26 27	30 27	e24 e23	e19 e20	e20 e22	20 18	32 34	53 53	38 29	60 36	13 13	17 11	11 11
28	27	e23	e21	23	19	35	51	26	21	18	20	12 11
29 30	27 26	e23 24	22 22	22 20	e19 	37 44	52 59	22 22	21 19	12 11	38 18	11
31	26		22	21		53		27		10	15	
TOTAL MEAN	938 30.3	682 22.7	662 21.4	718 23.2	642 22.1	921 29.7	1662 55.4	1358 43.8	607 20.2	508 16.4	439.9 14.2	349.1 11.6
MAX MIN	36 24	26 20	26 18	26 20	24 18	53 20	66 43	130 22	60 14	47 10	38 9.9	17 9.1
AC-FT	1860	1350	1310	1420	1270	1830	3300	2690	1200	1010	873	692
STATIST	ICS OF MO	NTHLY MEA	N DATA FO	OR WATER Y	EARS 1997	- 2000,	BY WATER Y	YEAR (WY)				
MEAN MAX	23.0 30.3	21.4 30.1	16.6 21.4	17.0 23.2	17.9 22.1	22.9 35.5	74.8 124	150 383	84.4 152	33.0 66.0	47.6 100	20.2 29.3
(WY) MIN	2000 12.8	1998 13.9	2000 12.1	2000 13.2	2000 11.4	1998 12.3	1999 27.7	1999 43.8	1999 20.2	1999 16.4	1999 14.2	1999 10.9
(WY)	1999	1997	1997	1998	1997	1997	1997	2000	2000	2000	2000	1998
SUMMARY	STATISTI	CS	FOR 1	1999 CALEN	DAR YEAR	FO	OR 2000 WAT	ER YEAR		WATER YE	ARS 1997	- 2000
ANNUAL I	MEAN			30000 82.2			9487.0 25.9			44.2		1000
LOWEST A	ANNUAL M ANNUAL ME	AN						_		80.2 25.9		1999 2000
LOWEST	DAILY ME DAILY MEA	N		2000 11	Apr 30 Mar 24		130 9.1	May 8 Sep 15		2000 8.7		30 1999 27 1998
	SEVEN-DAY ANEOUS PE			12	Mar 23		9.5 573	Sep 13 Jul 17		8.7 9.0 a3580	Apr	24 1998 30 1999
	ANEOUS PE RUNOFF (A			59500			6.04 18820	Jul 17		b10.98 32010	Apr	30 1999
10 PERC	ENT EXCEE	DS		227 27			49 23			84 21		
	ENT EXCEE			16			12			12		

e Estimated.

a From rating curve extended above 636 ${\rm ft^3/s.}$ b From floodmark.

07103970 MONUMENT CREEK ABOVE WOODMEN ROAD AT COLORADO SPRINGS, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--SUSPENDED SEDIMENT: May to September 1997 (peak flows only), April 1998 to current year (seasonal records only).

INSTRUMENTATION. -- Pumping sediment sampler since May 1997.

REMARKS. -- Daily suspended-sediment records are fair.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

EXTREMES FOR PERIOD OF RECORD.-SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 3,580 mg/L, Aug. 19, 1998; minimum daily mean, 2 mg/L,

SEDIMENT LOAD (seasonal only): Maximum daily, 49,100 tons (estimated), Apr. 30, 1999; minimum daily, 0.08 ton, June 9, 2000.

EXTREMES FOR CURRENT YEAR . --

SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 1,230 mg/L, May 8; minimum daily mean, 2 mg/L, June 9. SEDIMENT LOAD (seasonal only): Maximum daily, 520 tons, May 8; minimum daily, 0.08 ton, June 9.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGI INST CUBIC FEET PER SECOI (0006)	E, SPE- CIFIC CON- DUCT- ANCE DU (US/CM	FIELD (STAND ARD () UNITS	TEMPEI ATURI WATEI () (DEG ()	E DIS- R SOLVI C) (MG/1	- ICAL, ED 5 DAY L) (MG/I), FORM, FECAI - 0.7 , UM-ME ((COLS.	DIS- SOLVI (MG/I AS CALCIU	DIS SOLV (MG/	M, SULFAT - DIS- ED SOLVE L (MG/I G) AS SO4	DIS- ED SOLVED L (MG/L 4) AS F)
OCT 20	1230	31	354	8.2	9.5	9.4	<1.0	32	43.0	6.82	48.0	1.2
DEC 15	1045	16	425	8.2	.0	11.4	<1.0	K1	54.8	8.15	60.0	1.1
FEB 16	1000	21	366	8.2	2.5	11.2	<1.0	K2	41.1	7.59	50.0	1.2
APR 19	0930	68	207	8.1	5.6	9.9	1.4	100	23.2	3.93	22.0	1.5
JUN 21	1015	16	366	8.3	17.0	7.8	<1.0	72	44.1	6.42	42.0	1.2
AUG 15	1030	11	408	8.5	21.0	7.6	<1.0	290	46.9	6.96	48.0	1.1
DAT	N E	NITRO- GEN, 02+NO3 DIS- SOLVED (MG/L AS N) 00631)	SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	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)
OCT 20 DEC		1.20	<.020	.200	.100	<1	<1.0	45	47	<.1	<.1	<1
15 FEB		1.80		.200	.090	1	<1.0	46	45	.1	<.1	<1
16		1.90		.400	.300	1	<1.0	61	62	.2	.1	<1
APR 19		.560	.022	.400	.200	2	<1.0	30	30	.3	<.1	<1
JUN 21		1.11	<.020	.118	.082	1	1.1	53	51	<.1	<.1	<1
AUG 15		1.07	<.020	.174	.120	2	1.4	77	76	<.1	<.1	<1
DAT	E.	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) 01030)	RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)
OCT 20		-1 0	1	1	1090	10	<1	<1	102	62		
DEC		<1.0										
15 FEB		<1.0	2	1	1350	<10	2	<1	140	88	==	
16 APR		<1.0	3	1	1130	<10	2	<1	109	72	==	<.1
19 JUN		<1.0	4	<1			6	<1	175	29		<.1
21 AUG		<1.0	7	4	290	20	<1	<1	31	19	<.3	<.2
15		<1.0	2	2	330	<10	<1	<1	30	10	<.3	<.2

07103970 MONUMENT CREEK ABOVE WOODMEN ROAD AT COLORADO SPRINGS, CO--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE OCT 20 DEC 15 FEB 16 APR 19 JUN 21 AUG 15	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067) 3 3 3 2	NICKEL, DIS- SOLVED (UG/L AS NI) (01065) <2 3 <2 2 2	SELE- NIUM, TOTAL (UG/L AS SE) (01147) 1 3 3 2 3	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145) .8 2.7 1.7 1.4	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077) <1 <1 <1 <1 <1 <1 <1 <1	SILVER, DIS- SOLVED (UG/L AS AG) (01075) <1 <1 <1 <1 <1 <1	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092) 12 12 16 22 14	ZINC, DIS- SOLVED (UG/L AS ZN) (01090) 6 5 7 5 5	CYANIDE TOTAL (MG/L AS CN) (00720) <.01 <.01 <.01 <.01 <.01	SEDI- MENT, SUS- PENDED (MG/L) (80154) 124 150 404 8 31	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155) 5.4 8.5 74 .33 .92
WAT DATE	ER-QUALITY TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
MAY 08 JUN 26 JUL 17 AUG 21	1015 1210 1830 2030	164 27 134 67	174 310 148 178	8.1 8.3 8.0	10.3 14.0 21.5 18.1	9.0 7.9 7.1	6.1 2.3 6.9 6.1	K1800 K900 10000 7800	19.0 36.1 17.9 21.2	2.70 5.28 2.15 2.71	18.0 38.0 <15.0 19.0
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	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)
MAY 08 JUN 26 JUL 17 AUG 21	.7 1.0 <.5 <.5	.396 .821 .480	.066 <.020 .105	.701 .245 .915	.057 .104 .064	4 2 4 2	<1.0 <1.0 <1.0 <1.0	22 49 <10 26	18 46 <10 24	.6 .1 .7	.1 <.1 <.1
DATE	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)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)
MAY 08 JUN 26 JUL 17 AUG 21	5 <1 5 3	<1.0 1.7 <1.0 <1.0	15 5 21 12	1 3 1 2	9980 1400 14500 5310	80 40 30 80	30 2 36 14	<1 <1 <1 <1	510 104 553 254	44 15 12 7	<.3 <.3 <.3 <.3

07103970 MONUMENT CREEK ABOVE WOODMEN ROAD AT COLORADO SPRINGS, CO--Continued

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WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

	201										-
DATE	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
MAY 08	<.2	9	2	4	.9	<1	<1	95	8	<.01	2020
JUN 26	E.1	3	2	3	2.1	<1	<1	17	4	<.01	
JUL		11	<2	6	1.2	<1	<1	107	<3		
17 AUG	<.2									<.01	
21	<.2	6	<2	2	.7	<1	<1	58	5	<.01	746
DATE	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	ACE- NAPHTH- YLENE TOTAL (UG/L) (34200)	ACE- NAPHTH- ENE TOTAL (UG/L) (34205)	ANTHRA- CENE TOTAL (UG/L) (34220)	BENZ(A) ANTHRA- CENE WATER UNFLTRD REC (UG/L) (34526)	BENZO B FLUOR- AN- THENE TOTAL (UG/L) (34230)	BENZO- A- PYRENE TOTAL (UG/L) (34247)	BENZO- [GHI]- PERY- LENE TOTAL (UG/L) (34521)	BENZO K FLUOR- AN- THENE TOTAL (UG/L) (34242)	CHRY- SENE TOTAL (UG/L) (34320)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (UG/L) (34556)
MAY 08	894	<2	<2	<2	<3	<3	<3	<3	<3	<3	<3
JUN 26		<2	<2	<2	<3	<3	<3	<3	<3	<3	<3
JUL 17		<2	<2	<2	<3	<3	<3	<3	<3	<3	<3
AUG 21	135	<2	<2	<2	<3	<3	<3	<3	<3	<3	<3
DATE	FLUOR- ANTHENE TOTAL (UG/L) (34376)	FLUOR- ENE TOTAL (UG/L) (34381)	INDENO (1,2,3- CD) PYRENE TOTAL (UG/L) (34403	NAPHTI ALENI TOTAI (UG/L)	E THRI L TOTA) (UG/	ENE PYR AL TO L) (UG	I Al WA ENE (TAL GI J/L) (U	,6-DI- ETHYL NILINE AT FLT 0.7 U F, REC UG/L) 82660)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)
MAY 08 JUN	<2	<2	<3	<2	<2	<	:2	<.003	<.002	<.002	.011
26 JUL	<2	<2	<3	<2	<2	<	:2	<.003	<.002	<.002	.012
17 AUG	<2	<2	<3	<2	<2	<	:2	<.003	<.002	<.002	<.006
21	<2	<2	<3	<2	<2	<	:2	<.003	<.002	<.002	.010
DATE	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)
08 JUN	<.001	<.002	<.002	<.003	<.010	<.004	<.004	<.002	<.002	.130	<.001
26 JUL	<.001	<.002	<.002	<.003	<.007	<.004	<.004	<.002	<.006	.050	<.001
17 AUG	<.001	<.002	<.002	<.003	<.009	<.004	<.004	<.002	<.002	.286	<.001
21	<.001	<.002	<.002	<.003	<.003	<.030	<.004	E.003	<.005	.216	<.001
DATE	DISUL- FOTON WATER FLITRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLITRD 0.7 U GF, REC (UG/L) (82671)
MAY											
08 JUN	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.007	<.004	<.004
26 JUL	<.017	<.002	<.004	<.003	<.003	<.004	<.002	.019	.005	<.004	<.004
17 AUG	<.017	<.002	<.004	<.003	<.003	<.004	<.002	.047	<.002	<.004	<.004
21	<.017	<.002	<.004	<.003	<.003	<.004	<.002	.069	<.002	<.004	<.004

07103970 MONUMENT CREEK ABOVE WOODMEN ROAD AT COLORADO SPRINGS, CO--Continued

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

	NAPROP-		METHYL	PEB-	PENDI-	D	220	DD 0D 3	PRO-	PRO-	PRON-
	AMIDE		PARA-	ULATE	METH-	PHORATE	PRO-	PROPA-	PANIL	PARGITE	AMIDE
	WATER	PARA-	THION	WATER	ALIN	WATER	METON,	CHLOR,	WATER	WATER	WATER
	FLTRD	THION,	WAT FLT	FILTRD	WAT FLT	FLTRD	WATER,	WATER,	FLTRD	FLTRD	FLTRD
	0.7 U	DIS-	0.7 U	0.7 U	0.7 U	0.7 U	DISS,	DISS,	0.7 U	0.7 U	0.7 U
DATE	GF, REC	SOLVED	GF, REC	GF, REC	GF, REC	GF, REC	REC	REC	GF, REC	GF, REC	GF, REC
	(UG/L)										
	(82684)	(39542)	(82667)	(82669)	(82683)	(82664)	(04037)	(04024)	(82679)	(82685)	(82676)
MAY											
08	<.003	<.004	<.006	<.004	.035	<.002	<.018	<.007	<.004	<.013	<.003
JUN											
26	<.003	<.004	<.006	<.004	<.009	<.002	<.018	<.007	<.004	<.013	<.003
JUL											
17	<.003	<.004	<.006	<.004	.013	<.002	<.018	<.007	<.004	<.013	<.003
AUG											
21	<.003	<.004	<.006	<.004	<.010	<.002	.022	<.007	<.004	<.013	<.003

		TEBU-	TER-	TER-	THIO-	TRIAL-	TRI-		PER-	
	SI-	THIURON	BACIL	BUFOS	BENCARB	LATE	FLUR-		METHRIN	
	MAZINE,	WATER	WATER	WATER	WATER	WATER	ALIN	ALPHA	CIS	
	WATER,	FLTRD	FLTRD	FLTRD	FLTRD	FLTRD	WAT FLT	BHC	WAT FLT	P,P'
	DISS,	0.7 U	DIS-	0.7 U	DDE					
DATE	REC	GF, REC	GF, REC	GF, REC	GF, REC	GF, REC	GF, REC	SOLVED	GF, REC	DISSOLV
	(UG/L)									
	(04035)	(82670)	(82665)	(82675)	(82681)	(82678)	(82661)	(34253)	(82687)	(34653)
MAY										
08	<.005	<.010	<.007	<.013	<.002	<.001	E.003	<.002	<.005	<.006
JUN										
26	<.005	E.012	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
JUL										
17	<.005	<.010	<.007	<.013	<.002	<.001	.006	<.002	<.005	<.006
AUG										
21	<.005	<.010	<.030	<.013	<.002	<.001	.006	<.002	<.005	<.006

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT					JUN				
01	1400	26	367	16.5	07	1000	17	340	17.0
20	1400	34	352	11.5	18	1630	19	345	17.5
NOV					26	1130	26	308	13.9
02	0900	23	379	1.5	30	1000	19	381	17.9
DEC					JUL				
03	1130	30	404	1.5	11	0915	14	380	18.5
JAN					17	1800	146	143	19.5
12	1310	24	392	4.0	18	1400	16	379	27.0
APR					25	1030	13	407	20.2
03	1600	43	319	9.0	AUG				
05	0900	50	287	6.0	17	0900	12	352	16.7
19	1445	81	198	11.0	28	1915	26	283	21.2
MAY					31	1200	13	388	20.6
09	1415	65	299	17.9	SEP				
26	1330	42	244	16.5	15	1230	9.6	370	19.8

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07103970 MONUMENT CREEK ABOVE WOODMEN ROAD AT COLORADO SPRINGS, CO--Continued SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT						
01	1400	26	16.5	90	6.4	
20	1400	34	11.5	48	4.4	
NOV 02	0900	23	1.5	47	2.9	
DEC	0,000	23	1.5	-17	2.5	
15	1045	16	.0	124	5.4	
JAN	1210	0.4	4.0	100	10	
12 FEB	1310	24	4.0	176	12	
16	1000	21	2.5	150	8.5	
APR						
03	1600	43	9.0	258	30	
05	0900	50	6.0	512	69	
19	0930	68	5.6	404	74	
19	1445	81	11.0	1430	313	
MAY						
08	1015	164	10.3	2020	894	
09	1415	65	17.9	376	66	
26	1330	42	16.5	116	13	
JUN						
07	1000	17	17.0	34	1.6	
18	1630	19	17.5	23	1.2	
21	1015	16	17.0	8	.33	
26	1130	26	13.9	98	6.9	
30	1000	19	17.9	33	1.7	
JUL						
11	0915	14	18.5	49	1.9	
17	1800	146	19.5	2220	875	
18	1400	16	27.0	62	2.7	
25	1030	13	20.2	30	1.1	
AUG						
15	1030	11	21.0	31	.92	
17	0900	12	16.7	25	.81	
21	2030	67	18.1	746	135	
28	1915	26	21.2	2140	150	76
31	1200	13	20.6	78	2.7	
SEP						
15	1230	9.6	19.8	9	. 23	

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		MEAN			MEAN			MEAN	
	MEAN	CONCEN-	SEDIMENT	MEAN	CONCEN-	SEDIMENT	MEAN	CONCEN-	SEDIMENT
	DISCHARGE	TRATION	DISCHARGE	DISCHARGE	TRATION	DISCHARGE	DISCHARGE	TRATION	DISCHARGE
DAY	(CFS)	(MG/L)	(TONS/DAY)	(CFS)	(MG/L)	(TONS/DAY)	(CFS)	(MG/L)	(TONS/DAY)
		0.00000000					-		
		OCTOBER			NOVEMBER			ECEMBER	
1	26	78	5.4	25			23		
2	24		e2.7	25			23		
3	25	43	3.0	26			26		
4	27	60	4.3	26			24		
5	28		e4.5	23			24		
6	28		e4.0	23			26		
7	34		e29	23			23		
8	32		e7.8	24			23		
9	33		e6.5	22			23		
10	30		e5.6	22			24		
11	32		e5.6	22			22		
12	31		e5.6	22			21		
13	30	57	4.7	21			20		
14	31	40	3.4	21			21		
15	33	53	4.7	21			e18		
16	35	73	7.3	20			e19		
17	35		e5.5	21			e20		
18	35		e5.5	21			e21		
19	33	58	5.2	21			e20		
20	32	50	4.3	21			e19		
21	31	42	3.5	22			e18		
22	31		e3.9	e23			e19		
23	36		e5.5	e23			e20		
24	34	64	6.0	e24			e20		
25	29		e4.4	e23			e19		
26	30	48	3.8	e24			e19		
27	27		e2.9	e23			e20		
28	27	34	2.5	e23			e21		
29	27	36	2.6	e23			22		
30	26	43	3.0	24			22		
31	26		e3.2				22		
TOTAL	938		165.9	682		0	662		0

07103970 MONUMENT CREEK ABOVE WOODMEN ROAD AT COLORADO SPRINGS, CO--Continued SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MEAN DISCHARGE (CFS)		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		1	FEBRUARY			MARCH	
1 2	22 24			21 e21			e20 22		
3	21			22			22		
4 5	21 e23			23 23			24 24		
6	e24			24			26		
7 8	e24 e25			24 24			30 31		
9 10	e25 e26			24 23			23 24		
11 12	e24 e24			23 23			23 25		
13 14	e25 e25			23 24			24 24		
15	e24			23			25		
16 17	25 25			23 23			35 32		
18	25			e23			30		
19 20	24 24			23 21			29 32		
21	24			21			28		
22 23	23 22			22 e22			32 34		
24	e21			22			34		
25	e20			e21			33		
26 27	e20 e22			20 18			32 34		
28 29	23 22			19 e19			35 37		
30 31	20 21						44 53		
TOTAL	718		0	642		0	921		0
	MEAN DISCHARGE		SEDIMENT DISCHARGE	MEAN DISCHARGE		SEDIMENT DISCHARGE	MEAN DISCHARGE		SEDIMENT DISCHARGE
DAY		CONCEN- TRATION (MG/L)			CONCEN- TRATION (MG/L)			CONCEN- TRATION (MG/L)	
DAY	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION	DISCHARGE (TONS/DAY)
DAY	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE
1 2 3	DISCHARGE (CFS) 44 44 44 43	CONCENTRATION (MG/L) APRIL 247	DISCHARGE (TONS/DAY) e30 e30 29	DISCHARGE (CFS) 51 50 49	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY) 15 15 14	DISCHARGE (CFS) 27 26 20	CONCENTRATION (MG/L) JUNE	DISCHARGE (TONS/DAY) e5.8 e5.0 e3.2
1 2	DISCHARGE (CFS) 44 44	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY) e30 e30	DISCHARGE (CFS) 51 50	CONCENTRATION (MG/L) MAY 110 110 106	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 27 26	CONCENTRATION (MG/L) JUNE	DISCHARGE (TONS/DAY) e5.8 e5.0
1 2 3 4 5	DISCHARGE (CFS) 44 44 43 44 49	CONCENTRATION (MG/L) APRIL 247 269 497	DISCHARGE (TONS/DAY) e30 e30 29 32 66 58	DISCHARGE (CFS) 51 50 49 48 47	CONCEN- TRATION (MG/L) MAY 110 110 106 112	DISCHARGE (TONS/DAY) 15 15 14 e14 14	DISCHARGE (CFS) 27 26 20 17 16	CONCENTRATION (MG/L) JUNE 50 42	DISCHARGE (TONS/DAY) e5.8 e5.0 e3.2 2.3 1.8
1 2 3 4 5	DISCHARGE (CFS) 44 44 44 49 49 53 57	CONCEN- TRATION (MG/L) APRIL 247 269 497 438 470 498	DISCHARGE (TONS/DAY) e30 e30 29 32 66 58 67 76	DISCHARGE (CFS) 51 50 49 48 47 41 37	CONCEN- TRATION (MG/L) MAY 110 110 106 112 122 127 1230	DISCHARGE (TONS/DAY) 15 15 14 e14 14 14 13 520	DISCHARGE (CFS) 27 26 20 17 16 17	CONCENTRATION (MG/L) JUNE 50 42 36 26	DISCHARGE (TONS/DAY) e5.8 e5.0 e3.2 2.3 1.8 1.6 1.2 e.18
1 2 3 4 5	DISCHARGE (CFS) 44 44 43 44 49 49 53	CONCEN- TRATION (MG/L) APRIL 247 269 497 438 470	DISCHARGE (TONS/DAY) e30 e30 29 32 66 58 67	DISCHARGE (CFS) 51 50 49 48 47 41 37	CONCEN- TRATION (MG/L) MAY 110 110 106 112 122 127	DISCHARGE (TONS/DAY) 15 15 14 e14 14 13	DISCHARGE (CFS) 27 26 20 17 16 17	CONCENTRATION (MG/L) JUNE 50 42 36 26	DISCHARGE (TONS/DAY) e5.8 e5.0 e3.2 2.3 1.8
1 2 3 4 5 6 7 8 9	DISCHARGE (CFS) 44 44 44 43 44 49 53 57 57	CONCEN- TRATION (MG/L) APRIL 247 269 497 438 470 498	DISCHARGE (TONS/DAY) e30 e30 29 32 66 58 67 76 e75	DISCHARGE (CFS) 51 50 49 48 47 41 37 130 72	CONCEN- TRATION (MG/L) MAY 110 110 106 112 122 127 1230 418	DISCHARGE (TONS/DAY) 15 15 14 e14 14 13 520 86	DISCHARGE (CFS) 27 26 20 17 16 17 17 17 18	CONCENTRATION (MG/L) JUNE 50 42 36 26 2	DISCHARGE (TONS/DAY) e5.8 e5.0 e3.2 2.3 1.8 1.6 1.2 e.18 .08
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS) 44 44 43 44 49 49 53 57 63 59 60	CONCEN- TRATION (MG/L) APRIL 247 269 497 438 470 498 424 351 365	e30 e30 e30 29 32 66 58 67 76 e75 72	DISCHARGE (CFS) 51 50 49 48 47 41 37 130 72 54 52	CONCENTRATION (MG/L) MAY 110 110 106 112 122 127 1230 418 168 139	DISCHARGE (TONS/DAY) 15 15 14 e14 14 20 e15	DISCHARGE (CFS) 27 26 20 17 16 17 17 18 14 14	CONCENTRATION (MG/L) JUNE 50 42 36 26 2 4	DISCHARGE (TONS/DAY) e5.8 e5.0 e3.2 2.3 1.8 1.6 1.2 e.18 .08 .15 e.20 e.27
1 2 3 4 5 6 7 8 9 10 11 12 13 14	DISCHARGE (CFS) 44 44 43 44 49 53 57 63 59 60 64 66	CONCEN- TRATION (MG/L) APRIL 247 269 497 438 470 498 424 351 365 394	DISCHARGE (TONS/DAY) e30 e30 e30 29 32 66 58 67 76 e75 72 56 59 68 e69	DISCHARGE (CFS) 51 50 49 48 47 41 37 72 54 52 50 46 44	CONCEN- TRATION (MG/L) MAY 110 110 106 112 122 127 1230 418 168 139	DISCHARGE (TONS/DAY) 15 15 15 14 e14 14 20 e15 e12 e9.9	DISCHARGE (CFS) 27 26 20 17 16 17 17 18 14 15 18 18	CONCEN- TRATION (MG/L) JUNE 50 42 36 26 2 4	DISCHARGE (TONS/DAY) e5.8 e5.0 e3.2 2.3 1.8 1.6 1.2 e.18 .08 .15 e.20 e.27 e.39 e.49
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS) 44 44 43 44 49 53 57 63 59 60 64 66 63	CONCEN- TRATION (MG/L) APRIL 247 269 497 438 470 498 424 351 365 394 339	e30 e30 e30 29 32 66 58 67 76 e75 72 56 59 68 e69 58	DISCHARGE (CFS) 51 50 49 48 47 41 37 130 72 54 52 50 46 44 41	CONCEN- TRATION (MG/L) MAY 110 110 106 112 122 127 1230 418 168 139 63	DISCHARGE (TONS/DAY) 15 15 14 e14 14 13 520 86 24 20 e15 e12 e9.9 7.1	DISCHARGE (CFS) 27 26 20 17 16 17 17 18 14 15 18 18	CONCEN- TRATION (MG/L) JUNE 50 42 36 26 2 4	e5.8 e5.0 e3.2 2.3 1.8 1.6 1.2 e.18 .08 .15 e.20 e.27 e.39 e.49 e.60
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	DISCHARGE (CFS) 44 44 44 49 53 57 57 63 59 60 64 66 63 59 57	CONCEN- TRATION (MG/L) APRIL 247 269 497 438 470 498 424 351 365 394 339 292 325	e30 e30 e30 29 32 66 58 67 76 e75 72 56 59 68 e69 58	DISCHARGE (CFS) 51 50 49 48 47 41 37 130 72 54 52 50 46 44 41 31 40	CONCEN- TRATION (MG/L) MAY 110 110 106 112 122 127 1230 418 168 139 63 42 89	DISCHARGE (TONS/DAY) 15 15 14 e14 14 13 520 86 24 20 e15 e12 e9.9 7.1 3.6 13	DISCHARGE (CFS) 27 26 20 17 16 17 17 18 14 14 15 18 18 18 19 23	CONCEN- TRATION (MG/L) JUNE 50 42 36 26 2 4	DISCHARGE (TONS/DAY) e5.8 e5.0 e3.2 2.3 1.8 1.6 1.2 e.18 .08 .15 e.20 e.27 e.39 e.49 e.60 e.80 e3.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS) 44 44 43 44 49 53 57 63 59 60 64 66 63 59	CONCEN- TRATION (MG/L) APRIL 247 269 497 438 470 498 424 351 365 394 391 292	DISCHARGE (TONS/DAY) e30 e30 29 32 66 58 67 76 e75 72 56 59 68 e69 58	DISCHARGE (CFS) 51 50 49 48 47 41 37 130 72 54 52 50 46 44 41 31	CONCENTRATION (MG/L) MAY 110 110 106 112 122 127 1230 418 168 139 63	DISCHARGE (TONS/DAY) 15 15 15 14 e14 14 20 e15 e12 e9.9 7.1 3.6	DISCHARGE (CFS) 27 26 20 17 16 17 17 18 14 15 18 18 18	CONCENTRATION (MG/L) JUNE 50 42 36 26 2 4	DISCHARGE (TONS/DAY) e5.8 e5.0 e3.2 2.3 1.8 1.6 1.2 e.18 .08 .15 e.20 e.27 e.39 e.49 e.60 e.80
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS) 44 44 43 44 49 49 53 57 63 59 60 64 66 63 59 57 57 58	CONCEN- TRATION (MG/L) APRIL 247 269 497 438 470 498 424 351 365 394 339 292 225 335	DISCHARGE (TONS/DAY) e30 e30 29 32 66 58 67 76 e75 72 56 59 68 e69 58 47 50 52	DISCHARGE (CFS) 51 50 49 48 47 41 37 130 72 54 52 50 46 44 41 31 40 49	CONCEN- TRATION (MG/L) MAY 110 110 106 112 122 127 1230 418 168 139 63 42 89	DISCHARGE (TONS/DAY) 15 15 14 e14 14 13 520 86 24 20 e15 e12 e9.9 7.1 3.6 13 e16	DISCHARGE (CFS) 27 26 20 17 16 17 17 18 14 15 18 18 18 18 19 23 20	CONCEN- TRATION (MG/L) JUNE 50 42 36 26 26 4 2 4 26	DISCHARGE (TONS/DAY) e5.8 e5.0 e3.2 2.3 1.8 1.6 1.2 e.18 .08 .15 e.20 e.27 e.39 e.49 e.60 e.80 e3.0 1.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	DISCHARGE (CFS) 44 44 43 44 49 53 57 63 59 60 64 66 63 59 57 58 63 57	CONCEN- TRATION (MG/L) APRIL 247 269 497 438 470 498 424 351 365 394 424 351 365 394 292 325 335 777 534	DISCHARGE (TONS/DAY) e30 e30 e30 29 32 66 58 67 76 e75 72 56 59 68 e69 58 47 50 52 137 82	DISCHARGE (CFS) 51 50 49 48 47 41 37 130 72 54 52 50 46 44 41 31 40 49 45 42	CONCENTRATION (MG/L) MAY 110 110 106 112 122 127 1230 418 168 139 63 42 89 51	DISCHARGE (TONS/DAY) 15 15 15 14 e14 14 13 520 86 24 20 e15 e12 e9.9 7.1 3.6 13 e16 e9.4 5.8	DISCHARGE (CFS) 27 26 20 17 16 17 17 18 14 15 18 18 18 19 23 20 19 18	CONCENTRATION (MG/L) JUNE 50 42 36 26 2 4 26 21 15	DISCHARGE (TONS/DAY) e5.8 e5.0 e3.2 2.3 1.8 1.6 1.2 e.18 .08 .15 e.20 e.27 e.39 e.49 e.60 e.80 e3.0 1.4 1.1 .75 .36
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	DISCHARGE (CFS) 44 44 44 43 44 49 53 57 63 59 60 64 66 63 59 57 58 63 57 58 63 57	CONCEN- TRATION (MG/L) APRIL 247 269 497 438 470 498 424 351 365 394 339 292 325 335 777 534 287 711 179	DISCHARGE (TONS/DAY) e30 e30 29 32 66 58 67 76 e75 72 56 59 68 e69 58 47 50 52 137 82 45 33 27	DISCHARGE (CFS) 51 50 49 48 47 41 37 130 72 54 52 50 46 44 41 31 40 49 45 42 36 29 28	CONCEN- TRATION (MG/L) MAY 110 106 112 122 127 1230 418 168 139 63 42 89 51 32 17	DISCHARGE (TONS/DAY) 15 15 14 e14 14 13 520 86 24 20 e15 e12 e9.9 7.1 3.6 13 e16 e9.4 5.8	DISCHARGE (CFS) 27 26 20 17 16 17 17 18 14 15 18 18 18 18 19 23 20 19 18 15 15	CONCEN- TRATION (MG/L) JUNE 50 42 36 26 2 4 26 21 15 8 7	DISCHARGE (TONS/DAY) e5.8 e5.0 e3.2 2.3 1.8 1.6 1.2 e.18 .08 .15 e.20 e.27 e.39 e.49 e.60 e.80 e3.0 1.4 1.1 .75 .36 .30 e.36
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DISCHARGE (CFS) 44 44 44 49 53 57 57 63 59 60 64 66 63 59 57 58 63 57	CONCENTRATION (MG/L) APRIL 247 269 497 438 470 498 424 351 365 394 339 292 325 335 777 534	DISCHARGE (TONS/DAY) e30 e30 e30 29 32 66 58 67 76 e75 72 56 59 68 e69 58 47 50 52 137 82 45 33	DISCHARGE (CFS) 51 50 49 48 47 41 37 130 72 54 52 50 46 44 41 31 40 49 45 42 36	CONCEN- TRATION (MG/L) MAY 110 110 106 112 122 127 1230 418 168 139 63 42 89 51 32 17	DISCHARGE (TONS/DAY) 15 15 14 e14 14 14 13 520 86 24 20 e15 e12 e9.9 7.1 3.6 13 e16 e9.4 5.8 3.1 1.3	DISCHARGE (CFS) 27 26 20 17 16 17 17 18 14 14 15 18 18 18 19 23 20 19 18 15 15	CONCEN- TRATION (MG/L) JUNE 50 42 36 26 2 4 2 4 26 21 15 8 7	DISCHARGE (TONS/DAY) e5.8 e5.0 e3.2 2.3 1.8 1.6 1.2 e.18 .08 .15 e.20 e.27 e.39 e.49 e.60 e3.0 1.4 1.1 .75 .36 .30
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	DISCHARGE (CFS) 44 44 44 49 53 57 57 63 59 60 64 66 63 59 57 58 63 57 58 63 57 59 58 56 58 54	CONCEN- TRATION (MG/L) APRIL 247 269 497 438 470 498 424 351 365 394 339 292 325 335 777 534 287 211 179 184	DISCHARGE (TONS/DAY) e30 e30 e30 29 32 66 58 67 76 e75 72 56 59 68 e69 58 47 50 52 137 82 45 33 27 e29 27	DISCHARGE (CFS) 51 50 49 48 47 41 37 130 72 54 52 50 46 44 41 31 40 49 45 42 36 29 28 40 42 38	CONCENTRATION (MG/L) MAY 110 110 106 112 122 127 1230 418 168 139 63 42 89 51 32 17 394 186	DISCHARGE (TONS/DAY) 15 15 14 e14 14 13 520 86 24 20 e15 e12 e9.9 7.1 3.6 13 e16 e9.4 5.8 3.1 1.3 e1.9 76 71	DISCHARGE (CFS) 27 26 20 17 16 17 17 18 14 14 15 18 18 18 19 23 20 19 18 15 15 15 16 18	CONCENTRATION (MG/L) JUNE 50 42 36 26 2 4 26 21 15 8 7 11 20 663	DISCHARGE (TONS/DAY) e5.8 e5.0 e3.2 2.3 1.8 1.6 1.2 e.18 .08 .15 e.20 e.27 e.39 e.49 e.60 e3.0 1.4 1.1 .75 .36 .30 e.36 .49 1.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 3 24 25	DISCHARGE (CFS) 44 44 44 43 44 49 53 57 57 63 59 60 64 66 63 59 57 58 63 57 58 63 57	CONCEN- TRATION (MG/L) APRIL 247 269 497 438 470 498 424 351 365 394 292 325 335 777 534 287 211 179 184	DISCHARGE (TONS/DAY) e30 e30 29 32 66 58 67 76 e75 72 56 59 68 e69 58 47 50 52 137 82 45 33 27 e29 27	DISCHARGE (CFS) 51 50 49 48 47 41 37 130 72 54 52 50 46 44 41 31 40 49 45 42 36 29 28 40 42	CONCENTRATION (MG/L) MAY 110 110 106 112 122 127 1230 418 168 139 63 42 89 51 32 17 394 186	DISCHARGE (TONS/DAY) 15 15 14 e14 14 13 520 86 24 20 e15 e12 e9.9 7.1 3.6 13 e16 e9.4 5.8 3.1 1.3 e1.9 76 21	DISCHARGE (CFS) 27 26 20 17 16 17 17 18 14 15 18 18 18 19 23 20 19 18 15 15 16 18	CONCENTRATION (MG/L) JUNE 50 42 36 26 2 4 26 21 15 8 7 11 20	DISCHARGE (TONS/DAY) e5.8 e5.0 e3.2 2.3 1.8 1.6 1.2 e.18 .08 .15 e.20 e.27 e.39 e.49 e.60 e.80 e3.0 1.4 1.1 .75 .36 .30 e.36 .49 1.2
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	DISCHARGE (CFS) 44 44 44 49 53 57 57 63 59 60 64 66 63 59 57 58 63 57 58 63 57 58 63 57 58 63 57 58 63 57 58 63 57 58 63 63 59 57 58 63 63 57 58 63 63 65 68 68 68 68 68 68 68 68 68 68 68 68 68	CONCEN- TRATION (MG/L) APRIL 247 269 497 438 470 498 424 351 365 394 339 292 325 335 777 534 287 211 179 184 143 184	DISCHARGE (TONS/DAY) e30 e30 e30 29 32 66 58 67 76 e75 72 56 59 68 e69 58 47 50 52 137 82 45 33 27 e29 27 21 e20 20 e19	DISCHARGE (CFS) 51 50 49 48 47 41 37 130 72 54 52 50 46 44 41 31 40 49 45 42 36 29 28 40 42 38 29 26 22	CONCENTRATION (MG/L) MAY 110 110 106 112 122 127 1230 418 168 139 63 42 89 51 32 17 394 186 130 78 61 56	DISCHARGE (TONS/DAY) 15 15 14 e14 14 14 13 520 86 24 20 e15 e12 e9.9 7.1 3.6 13 e16 e9.4 5.8 3.1 1.3 e1.9 76 11 1.3 e1.9 76 11 1.3 e1.9 76 76 76 76 76 76 76 76 76 76 76 76 76	DISCHARGE (CFS) 27 26 20 17 16 17 17 18 14 14 15 18 18 18 18 18 18 18 18 18 18 18 18 18	CONCENTRATION (MG/L) JUNE 50 42 36 26 2 4 26 21 15 8 7 20 663 546 20 663 546	DISCHARGE (TONS/DAY) e5.8 e5.0 e3.2 2.3 1.8 1.6 1.2 e.18 .08 .15 e.20 e.27 e.39 e.49 e.60 e3.0 1.4 1.1 .75 .36 .30 e.36 .49 1.2 171 58 e7.1 6.2
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 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	DISCHARGE (CFS) 44 44 43 44 49 53 57 57 63 59 60 64 66 63 59 57 58 63 57 58 63 57 58 58 54 53 57	CONCEN- TRATION (MG/L) APRIL 247 269 497 438 470 498 424 351 365 394 424 351 365 394 287 211 179 184 143 184	DISCHARGE (TONS/DAY) e30 e30 29 32 66 58 67 76 e75 72 56 59 68 e69 58 47 50 52 137 82 45 33 27 e29 27 21 e20 20	DISCHARGE (CFS) 51 50 49 48 47 41 37 130 72 54 52 50 46 44 41 31 40 49 45 42 36 29 28 40 42 38 29 26	CONCEN- TRATION (MG/L) MAY 110 110 106 112 122 127 1230 418 168 139 63 42 89 51 32 17 7- 394 186 130 78 61	DISCHARGE (TONS/DAY) 15 15 14 e14 14 13 520 86 24 20 e15 e12 e9.9 7.1 3.6 13 e16 e9.4 5.8 3.1 1.3 e1.9 76 21 13 6.1 4.3	DISCHARGE (CFS) 27 26 20 17 16 17 17 18 14 15 18 18 18 18 19 23 20 19 18 15 15 16 18 60 36 21	CONCENTRATION (MG/L) JUNE 50 42 36 26 2 4 26 21 15 8 7 7 -11 20 663 546	DISCHARGE (TONS/DAY) e5.8 e5.0 e3.2 2.3 1.8 1.6 1.2 e.18 .08 .15 e.20 e.27 e.39 e.49 e.60 e.80 e3.0 1.4 1.1 .75 .36 .30 e.36 .49 1.2 171 58 e7.1

07103970 MONUMENT CREEK ABOVE WOODMEN ROAD AT COLORADO SPRINGS, CO--Continued SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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		SE	PTEMBER	
1 2 3 4 5	16 18 20 16 15	92 145 123 53	3.9 14 e16 5.4 2.2	10 13 11 13 12	161 290 93 492 575	4.5 19 2.9 18 19	17 12 14 13 13	272 26 22 25 34	15 .85 .81 .92 1.2
6 7 8 9 10	14 14 15 16 14	83 162 120 104	3.2 6.2 e6.1 5.2 4.1	12 11 11 11 11	307 137 112 137	9.7 e6.1 4.2 3.3 4.1	13 12 12 11 11	 28 19 24 9	e1.2 .91 .62 .74 .27
11 12 13 14 15	13 16 14 13 35	63 535 354 705	2.5 24 e19 13 252	11 11 11 11	99 109 55 35	3.1 e3.5 3.2 1.7	11 11 9.9 9.3 9.1	 5 16 20 9	e.10 .13 .41 .50 .23
16 17 18 19 20	19 47 18 15 16	288 787 144 57 89	17 262 7.9 2.4 4.1	11 16 15 11 9.9	57 143 179 90 67	1.7 13 9.3 2.7 1.8	9.7 9.5 9.6 9.6	25 26 34 36	e.37 .63 .68 .87
21 22 23 24 25	15 14 13 13 12	56 40 60 36	2.2 1.6 e1.8 2.1 1.2	25 18 14 11 20	336 553 253 159 303	67 29 9.6 4.7 45	13 13 17 14 9.4	209 153 186 119 90	16 5.6 12 4.6 2.3
26 27 28 29 30 31	13 13 18 12 11	24 21 148 112 38 86	.82 .76 15 3.9 1.1 2.3	17 11 20 38 18 15	332 111 308 539 198 138	17 3.5 51 76 9.8 12	11 11 12 11 11	26 17 15 11	e1.5 .80 .53 .46 .34
TOTAL	508		702.98	439.9		456.4	349.1		71.57

e Estimated.

07103977 COTTONWOOD CREEK AT COWPOKE ROAD AT COLORADO SPRINGS, CO

LOCATION.--Lat $38^\circ57^\circ04^\circ$, long $104^\circ42^\circ47^\circ$, in $\mathrm{SE}^1/_4\mathrm{NW}^1/_4$ sec.6, T.13 S., R.65 W., El Paso County, Hydrologic Unit 11020003, on left bank on downstream side of bridge on Cowpoke Road at Colorado Springs (revised), 1.0 mi upstream from Woodmen Road, and 5.3 mi east of Interstate 25.

DRAINAGE AREA. -- 5.93 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1998 to current year (seasonal records only).

GAGE.--Water-stage recorder with satellite telemetry and artificial control. Elevation of gage is 6,875 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 230 ft³/s, June 23, 1999, from rating curve extended above 40 ft³/s, on basis of velocity-area study; gage height, 6.25 ft from floodmarks; minimum daily, 0.03 ft³/s, on many days in 1998 and 2000 water years.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 29.0 ${\rm ft}^3/{\rm s}$, July 17; gage height, 4.60 ft from floodmarks; minimum daily, 0.03 ${\rm ft}^3/{\rm s}$ (estimated), July 5-6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY MEAN VALUES DAY OCT NOV DEC TAN FEB MAR APR MAY TITIN JUL ATTG SEP 65 e 70 e 30 e 10 e.05 e 05 e 07 e.64 e.60 e.30 e.09 e.05 e.05 e.06 3 e.63 ---------------. 56 e.35 e.08 e.04 e.05 e.06 e.05 e.62 e.50 e.40 e.08 e.04 e.05 e.61 e.40 5 -----e.45 e.07 e.03 e.05 e.05 6 7 e.60 e.30 e.50 e.07 e.03 e.05 e.05 1.0 e.30 e.50 e.06 .04 e.05 e.05 8 e.70 ___ ___ ___ ___ e.30 e2.0 e.06 .06 e.05 e.05 --------------e.60 e.20 e1.0 e.05 .08 e.05 e.05 10 e.58 e.20 e.80 e.05 e.07 e.06 e.05 11 12 --------e.20 e.20 e.04 e.07 e.07 e.06 ___ ___ e.54 e.04 .07 e.07 e.60 e.52 13 e.20 e.50 e.04 .07 e.07 e.06 ------___ -----e.20 14 .50 e.55 .04 .07 e.07 e.06 e.20 e.07 15 .46 .04 e.10 e.06 e.07 .50 16 e.19 17 . 54 --------------e.19 e.80 .04 e1.2 e.08 e.06 ------18 .64 e.18 e.40 e.30 .04 e.15 e.07 e.05 ___ ___ ___ 19 e.62 e.18 .05 e.10 e.05 e.05 20 e.62 e.18 e.25 .05 e.09 e.04 e.06 e.60 e.18 e.08 e.08 e.14 2.2 e.60 --------------e.18 e.25 . 05 e.07 e.06 e.07 23 e.50 . 25 .05 e.07 e.05 e.10 e.20 e.06 24 25 e.18 e.30 e.25 .06 ___ -----------e.50 e.07 e.06 26 e.40 .14 e.20 e.30 e.06 e.10 e.06 27 28 .13 e.15 e.17 e.14 e.14 e.09 e.06 e.06 e.40 ___ ___ ___ ___ ___ e.10 -----e.05 e.40 e.14 e.06 e.07 29 e.30 e.20 e.12 e.05 e.14 e.06 ---------------30 e.30 e.40 e.11 e.06 e.05 e.10 e.05 31 e.30 e.05 e.08 TOTAL 16.93 7.90 13.60 2.07 3.56 2.26 1 88 ------------___ .26 .70 .11 1.2 MEAN .55 .44 .069 .073 .063 1.0 ---------------2.0 MAX .30 .20 .14 MTN .30 .13 .11 .04 .03 .04 .05 34 2.7 AC-FT

e Estimated.

07103977 COTTONWOOD CREEK AT COWPOKE ROAD AT COLORADO SPRINGS, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--SUSPENDED SEDIMENT: April 1998 to current year (seasonal records only).

INSTRUMENTATION. -- Pumping sediment sampler since April 1998.

REMARKS. -- Records of daily sediment are poor.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis; K, based on non-ideal colony count.

EXTREMES FOR PERIOD OF RECORD.-SEDIMENT CONCENTRATION (seasonal only): Maximum, 6,760 mg/L, May 25, 1999; minimum daily mean, 7 mg/L, June 13, 2000.
SEDIMENT LOAD (seasonal only): Maximum daily, 2,510 tons (estimated), Apr. 30, 1999; minimum daily, 0.00 ton (most estimated), many days in 2000.

EXTREMES FOR CURRENT YEAR. --

SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 2,820 mg/L, July 17; minimum daily mean, 7 mg/L, June 13. SEDIMENT LOAD (seasonal only): Maximum daily, 9.1 tons (estimated), July 17; minimum daily, 0.00 ton (most estimated),

WATER-OUALITY 1	DATA.	WATER	YEAR	OCTOBER	1999	TO	SEPTEMBER	2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 20 APR	1045	.62	328	8.3	8.0	9.4	120	<.050	<.020	E.035	<.010
20	0830	.18	385	7.8	5.0	10.0	<1	<.050	<.020	E.037	.013
JUN 22 AUG	0945	.05	421	8.0	22.0	6.8	K1800	<.050	<.020	<.050	<.010
16	1145	.07	455	7.6	23.0	6.4	K1400	<.050	.127	.191	<.010

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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				
07	0845	.66	339	9.5	28	1120	.10	456	19.5
14	0815	.54	348	6.0	JUL				
NOV					06	1535	.03	454	
01	1315	.28	353	9.0	11	1325	.06	439	26.5
DEC					17	1230	.07	514	26.0
06	1425	.77	342	1.0	17	1545	4.9	238	17.5
JAN					18	0830	.17	475	17.0
04	0945	.23	368	.0	26	0805	.06	442	15.0
FEB					31	1115	.05	439	26.0
01	1010	.18	367	.0	AUG				
MAR					07	1230	.05	446	24.5
14	0830	.57	341	.0	11	0945	.07	434	22.0
29	1230	.17	375	16.0	21	1315	.03	443	28.5
APR					22	1230	.07	441	29.5
04	0800	.53	346	1.0	29	1330	.14	438	28.0
25	1000	.17	393	9.5	SEP				
MAY					01	1230	.07	441	26.5
04	1015	.41	358	17.0	07	1215	.05	446	23.0
09	1400	1.0	357	21.5	12	0930	.07	442	13.5
11	0815	.66	352	10.0	15	1145	.06	441	24.0
22	1145	.24	378 420	22.5	21 27	0845	.07	443 446	6.0 22.5
30	1345	.11	420	27.5	2/	1300	.06	446	22.5

07103977 COTTONWOOD CREEK AT COWPOKE ROAD AT COLORADO SPRINGS, CO--Continued SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT						
07	0845	.66	9.5	13	.02	
14	0815	.54	6.0	9	.01	
20	1045	.62	8.0	27	.05	
NOV 01	1315	.28	9.0	7	.01	
DEC	1315	.20	9.0	,	.01	
06	1425	.77	1.0	1210	2.5	
JAN						
04	0945	.23	.0	264	.16	
FEB 01	1010	.18	.0	217	.11	
MAR	1010	.10	.0	21/	.11	
14	0830	.57	.0	788	1.2	
29	1215	.17	16.0	401	.18	
APR		= 0				
04 20	0800 0830	.53 .18	1.0 5.0	386 62	.55	
25	1000	.17	9.5	16	.03	
MAY	1000	• = /	5.5	10	.01	
04	1015	.41	17.0	367	.41	
09	1400	1.0	21.5	863	2.4	
11	0815	.66	10.0	290	.52	
22 30	1145 1345	.24	22.5 27.5	38 265	.02	
JUN	1343	.11	27.5	205	.00	
13	1445	.04		6	.00	
22	0945	.05	22.0	11	.00	
28	1115	.10	19.5	130	.04	
JUL 06	1530	.03		27	.00	
11	1315	.06	26.5	13	.00	
17	1230	.07	26.0	868	.16	
17	1545	4.9	17.5	41300	550	89
18	0830	.17	17.0	1010	.46	
26 31	0800 1115	.06	16.0 26.0	451 364	.07	
AUG	1115	.05	20.0	304	.05	
07	1230	.05	24.5	128	.02	
11	0945	.07	22.0	237	.04	
16	1200	.07	23.0	545	.10	
21 22	1315 1230	.03	28.5 29.5	249 269	.02	
29	1330	.14	28.0	741	. 28	
SEP	1550		20.0	, 11	.20	
01	1230	.07	26.5	481	.09	
07	1215	.05	23.0	208	.03	
12 15	0930	.07 .06	13.5	338	.06	
21	1145 0845	.06	24.0 6.0	315 422	.05	
27	1300	.06	22.5	256	.04	

237 07103977 COTTONWOOD CREEK AT COWPOKE ROAD AT COLORADO SPRINGS, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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		D	ECEMBER	
1	.65		e.04	===					===
2	e.64		e.04						
3 4	e.63 e.62		e.03 e.03						
5	e.61		e.03						
6	e.60		e.02						
7	1.0	28	.10						
8 9	e.70		e.05						
10	e.60 e.58		e.03 e.02						
11	e.56		- 00						
12	e.56		e.02 e.02						
13	e.52		e.02						
14 15	.50 .46	9	.01 e.01						
16 17	.50 .54		e.01 e.01						
18	.64		e.02						
19 20	e.62 e.62		e.03 e.04						
21 22	e.60 e.60		e.04 e.03						
23	e.50		e.02						
24 25	e.50 e.50		e.02 e.02						
26 27	e.40 e.40		e.02 e.01						
28	e.40		e.01						
29	e.30		e.01						
30 31	e.30 e.30		e.01 e.01						
moma r	16.00		0 50	0		0			0
TOTAL	16.93		0.78	0		0	0		0
	MEAN DISCHARGE	MEAN CONCEN- TRATION	SEDIMENT DISCHARGE	MEAN DISCHARGE	MEAN CONCEN- TRATION	SEDIMENT DISCHARGE	MEAN DISCHARGE		SEDIMENT DISCHARGE
DAY		CONCEN-			CONCEN-			CONCEN-	
DAY	DISCHARGE	CONCEN- TRATION	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION	DISCHARGE	DISCHARGE	CONCEN- TRATION	DISCHARGE
	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE
1 2	DISCHARGE (CFS)	CONCENTRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2	DISCHARGE (CFS)	CONCENTRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4	DISCHARGE (CFS)	CONCENTRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE ((CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE ((CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)

07103977 COTTONWOOD CREEK AT COWPOKE ROAD AT COLORADO SPRINGS, CO--Continued SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

	CEDIN	MI DISCHE		ED (IONS/DAI)					
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	e.70 e.60 .56 e.50 e.40	 379 	e.76 e.65 e1.1 e.51 e.36	e.30 e.30 e.35 e.40 e.45	 367 	e.16 e.16 e.24 e.40 e.49	e.10 e.09 e.08 e.08 e.07	 	e.05 e.03 e.02 e.01 e.01
6 7 8 9 10	e.30 e.30 e.30 e.20	 	e.24 e.22 e.19 e.12 e.11	e.50 e.50 e2.0 e1.0 e.80	 860 	e.57 e.66 e5.6 e2.3 e1.1	e.07 e.06 e.06 e.05 e.05	 	
11 12 13 14 15	e.20 e.20 e.20 e.20 e.20	 	e.10 e.09 e.08 e.07 e.06	e.65 e.60 e.50 e.55 e.40	280 	e.49 e.41 e.31 e.31 e.20	e.04 e.04 e.04 .04	7	e.00 e.00 e.00 e.00 e.00
16 17 18 19 20	e.19 e.19 e.18 e.18 e.18	 62 	e.05 e.04 e.04 e.03	e.40 e.80 e.40 e.30 e.25	 	e.17 e.48 e.09 e.04 e.03	.04 .04 .04 .05	 	e.00 e.00 e.00 e.00
21 22 23 24 25	e.18 e.18 e.20 e.18 .16	 16	e.02 e.02 e.02 e.01 .01	e.25 e.25 .25 e.30 e.25	39 	e.03 e.03 e.52 e.39 e.30	.05 .05 .05 .06	11 	e.00 e.00
26 27 28 29 30 31	.14 .13 e.15 e.20 e.40	 	e.01 e.01 e.01 e.02 e.28	e.20 e.17 e.14 e.12 e.11	 251	e.22 e.17 e.12 e.09 e.07 e.06	e.30 e.14 e.09 e.07 e.06	 124 	e.06 e.03
TOTAL	7.90		5.26	13.60		16.21	2.07		0.42
DAY	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		DISCHARGE
DAY	DISCHARGE	CONCEN- TRATION	DISCHARGE	DISCHARGE	CONCEN- TRATION	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION	DISCHARGE
DAY 1 2 3 4 5	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY) e.09 e.07 e.06
1 2 3 4	e.05 e.05 e.04 e.04	CONCEN- TRATION (MG/L) JULY	DISCHARGE (TONS/DAY) e.01 e.01 e.01 e.00	DISCHARGE (CFS) e.05 e.05 e.05 e.05	CONCENTRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY) e.04 e.04 e.03 e.03	DISCHARGE (CFS) S e.07 e.06 e.06	CONCENTRATION (MG/L) EPTEMBER 481	e.09 e.07 e.06 e.04 e.04
1 2 3 4 5 6 7 8 9	e.05 e.05 e.05 e.04 e.04 e.03	CONCEN- TRATION (MG/L) JULY 26	DISCHARGE (TONS/DAY) e.01 e.01 e.00 e.00 e.00 e.00 e.00 e.0	e.05 e.05 e.05 e.05 e.05 e.05 e.05 e.05	CONCEN- TRATION (MG/L) AUGUST 133	DISCHARGE (TONS/DAY) e.04 e.04 e.03 e.03 e.02 e.02 e.02 e.02 e.02 e.02 e.02	DISCHARGE (CFS) S e.07 e.06 e.06 e.05 e.05 e.05 e.05 e.05 e.05	CONCENTRATION (MG/L) EPTEMBER 481 208	e.09 e.07 e.06 e.04 e.04 e.03 e.03 e.03 e.04 e.04 e.04
1 2 3 4 5 6 7 8 9 10 11 12 13 14	e.05 e.05 e.04 e.04 e.03 e.03 .04 .06 .08 e.07	CONCEN- TRATION (MG/L) JULY 26 13	DISCHARGE (TONS/DAY) e.01 e.01 e.00 e.00 e.00 e.00 e.00 e.0	e.05 e.05 e.05 e.05 e.05 e.05 e.05 e.05	CONCEN- TRATION (MG/L) AUGUST 133 238 238	DISCHARGE (TONS/DAY) e.04 e.04 e.03 e.02 e.02 e.02 e.02 e.02 e.02 e.02 e.02	DISCHARGE (CFS) S e.07 e.06 e.06 e.05 e.05 e.05 e.05 e.07 e.06 e.07 e.06 e.07 e.06	CONCENTRATION (MG/L) EPTEMBER 481 208 208 338	E.09 E.09 E.07 E.06 E.04 E.03 E.03 E.03 E.04 E.04 E.05 E.05 E.05 E.05 E.05 E.05 E.05 E.05
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	e.05 e.05 e.04 e.04 e.03 e.03 .04 .06 .08 e.07 e.10 e.50 e.12 e.15 e.10	CONCEN- TRATION (MG/L) JULY 26 13 2310 2820 944	DISCHARGE (TONS/DAY) e.01 e.01 e.00 e.00 e.00 e.00 e.00 e.0	e.05 e.05 e.05 e.05 e.05 e.05 e.05 e.07 e.07 e.07 e.07 e.07 e.07	CONCEN- TRATION (MG/L) AUGUST 133 133 545 545	DISCHARGE (TONS/DAY) e.04 e.04 e.03 e.02 e.02 e.02 e.02 e.02 e.09 e.01 e.06 e.07 e.09 e.10 e.10 e.08 e.08	DISCHARGE (CFS) 8 e.07 e.06 e.06 e.05 e.05 e.05 e.05 e.06 e.06 e.06 e.06 e.06 e.06 e.06 e.06	CONCENTRATION (MG/L) EPTEMBER 481 208 338 338 315	DISCHARGE (TONS/DAY) e.09 e.07 e.06 e.04 e.04 e.03 e.03 e.03 e.04 e.04 e.05 e.05 e.05 e.05 e.05 e.05 e.06 e.05 e.07 e.10
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	E.05 e.05 e.05 e.04 e.04 e.03 e.03 .04 .06 .08 e.07 e.10 e.50 e.12 e.15 e.10 e.09 e.08 e.07	CONCEN- TRATION (MG/L) JULY 26 13 2310 2820 944	DISCHARGE (TONS/DAY) e.01 e.01 e.00 e.00 e.00 e.00 e.00 e.0	e.05 e.05 e.05 e.05 e.05 e.05 e.05 e.05	CONCEN- TRATION (MG/L) AUGUST 133 133 545 256 266	DISCHARGE (TONS/DAY) e.04 e.04 e.03 e.02 e.02 e.02 e.02 e.02 e.09 e.10 e.10 e.08 e.05 e.03 e.05 e.04 e.05	DISCHARGE (CFS) 8 e.07 e.06 e.06 e.05 e.05 e.05 e.05 e.05 e.05 e.05 e.05	CONCENTRATION (MG/L) EPTEMBER 481 208 208 338 315 406 406	DISCHARGE (TONS/DAY) e.09 e.07 e.06 e.04 e.04 e.03 e.03 e.03 e.04 e.05 e.05 e.05 e.05 e.05 e.05 e.05 e.06 e.05 e.06 e.05 e.06 e.05 e.06 e.05 e.06 e.05 e.06
1 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 26 27 28 29 30	E.05 e.05 e.05 e.04 e.04 e.03 e.03 .04 .06 .08 e.07 e.10 e.50 el.12 e.15 e.10 e.09 e.08 e.07 e.06 e.06 e.06 e.06 e.06 e.06	CONCEN- TRATION (MG/L) JULY 26 13 2310 2820 944 446 446 446	DISCHARGE (TONS/DAY) e.01 e.01 e.00 e.00 e.00 e.00 e.00 e.0	DISCHARGE (CFS) e. 05 e. 07 e. 08 e. 04 e. 08 e. 06 e. 05 e. 04 e. 10 e. 14 e. 14 e. 14 e. 14	CONCEN- TRATION (MG/L) AUGUST 133 238 545 545 256 266 266 748	DISCHARGE (TONS/DAY) e.04 e.04 e.03 e.03 e.02 e.02 e.02 e.02 e.02 e.03 e.04 e.05 e.06 e.07 e.09 e.10 e.10 e.10 e.10 e.10 e.10 e.10 e.10	DISCHARGE (CFS) 8 e.07 e.06 e.06 e.05 e.05 e.05 e.05 e.05 e.05 e.05 e.05	CONCENTRATION (MG/L) EPTEMBER 481 208 338 315 406 406 251 251	DISCHARGE (TONS/DAY) e.09 e.07 e.06 e.04 e.04 e.03 e.03 e.04 e.05 e.05 e.05 e.05 e.07 e.06 e.15 e.07 e.10 e.07 e.10 e.07 e.10 e.07 e.10 e.07 e.10 e.07 e.10 e.07 e.104 e.04 e.04

e Estimated

07103980 COTTONWOOD CREEK AT WOODMEN ROAD NEAR COLORADO SPRINGS, CO

LOCATION.--Lat $38^{\circ}56^{\circ}22^{\circ}$, long $104^{\circ}44^{\circ}26^{\circ}$, in $NE^{1}/_{4}NE^{1}/_{4}$ sec.11, T.13 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on left bank, 250 ft downstream from Woodmen Road, 4.0 mi east of Interstate 25, 5.0 mi upstream from mouth, and 8.2 mi northeast of courthouse in Colorado Springs (revised).

DRAINAGE AREA.--10.3 mi².

WATER-DISCHARGE RECORDS

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. Elevation of gage is 6,680 ft above sea level, from topographic map. Prior to Apr. 13, 1999, at site 150 ft upstream at datum 10 ft higher with artificial control and crest-stage gage.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

REMARKS.--Records fair except for estimated daily discharges and discharges above 40 ${\rm ft}^3/{\rm s}$, which are poor. Natural flow of stream affected by runoff from industrial and residential areas of northeast Colorado Springs.

		DISCHAR	GE, CUBI	C FEET PE	R SECOND, N	MEAN VA		R 1999 TO	SEPTEMBI	ER 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.3 2.1 2.4 2.4 2.3	1.4 1.4 1.5 1.5	1.7 1.7 1.7 2.0 2.7	e1.2 e1.2 e1.2 e1.2	.81 1.1 .99 .99	1.4 1.9 1.9 2.0 2.1	2.2 1.8 1.8 1.5	1.4 1.5 1.7 2.2 2.5	.98 1.0 .99 1.1 1.1	1.3 1.9 1.5 1.0	1.1 1.0 1.2 1.6	1.3 1.2 1.2 1.2
6 7 8 9 10	2.4 4.7 3.6 3.1 2.8	1.6 1.5 1.5 1.5	2.2 1.8 1.5 1.8 e2.0	e1.1 e1.1 e1.1 e1.0 e1.0	1.0 1.1 1.1 1.2 1.3	2.3 3.5 2.5 1.3 1.3	1.2 1.2 1.2 1.2 1.3	2.5 3.0 15 3.1 2.0	.99 .96 .95 .98	1.1 .97 1.1 1.2 1.0	.92 .82 .89 1.2 1.3	
	2.5 2.4 2.1 1.9 2.0	1.4 1.3 1.3 1.3		e.98 e.98 e.98 e.96 e.94		1.2 1.1 1.2 1.7 2.5	1.3 1.2 1.2 1.2 1.5	1.8 1.6 1.5 1.7	1.2 1.1 1.1 1.2 1.0	1.4 1.3 1.1 1.0 2.7		
					1.5 1.6 1.6 1.1							
		1.1 3.4 2.1 1.7 2.4								1.5 1.5 1.4 1.2		
26 27 28 29 30 31	1.8 1.7 1.5 1.5 1.5	2.5 1.7 1.7 1.6 1.7	e1.4 e1.3 e1.3 e1.3 e1.2 e1.2	e.92 e.90 e.90 e.90 e.94 e.90	1.2 1.3 1.3 1.6	1.3 1.3 1.2 1.4 1.9 3.5	.80 .81 .91 1.3 2.2	1.1 .96 .91 .95 .93	6.5 2.4 1.3 1.3	1.5 1.5 2.2 1.5 1.5	2.6 1.0 3.9 4.0 1.1 1.2	1.3 1.3 1.1 1.0 .81
TOTAL MEAN MAX MIN AC-FT					36.49 1.26 1.7 .81						57.63 1.86	34.89 1.16
STATIST	ICS OF MC				YEARS 1992	- 2000,	BY WATER					
MEAN MAX (WY) MIN (WY)	1.35 2.59 1995 .35 1993	1.17 3.20 1998 .47 1993	.82 1.71 2000 .33 1993	.69 1.36 1998 .33 1994	.78 1.26 1998 .42 1994	1.27 3.34 1998 .49 1995	2.10 6.42 1999 .50 1996	3.75 13.6 1999 .64 1993	3.29 8.85 1995 .49 1994	2.38 5.07 1999 .24 1994	2.70 6.36 1999 .66 1993	1.40 2.82 1995 .47 1992
SUMMARY	STATISTI	CS	FOR	1999 CALE	NDAR YEAR	F	OR 2000 W	ATER YEAR		WATER Y	EARS 1992	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME ANNUAL ME DAILY MEA SEVEN-DAY ANEOUS PE ANEOUS PE RUNOFF (A EENT EXCEE	MEAN LAN LAN LAN LAN LAN LAN LAN LAN LAN L		1414.3 3.8 100 .3 .3 2810 7.9 1.9	Apr 30 0 Mar 1 3 Mar 1		593.24 1.62 15 .73 .87 b279 d6.54 1180 2.5 1.3	May 8 3 Sep 14 7 Sep 13 Jul 17 4 Jul 17		1.8' 3.6: 6! e,a100 .1! .1: .1: .1: .1: .1: .1: .1: .1: .1: .1:	7 3 5 5 5 Jan 2 7 Jan 2 7 Jul 2	1999 1993 30 1999 23 1995 21 1995 19 1993 19 1993
90 PERC	ENT EXCEE	מענ		.5	U		.96)		.34	±	

e Estimated.

Also occurred Jan 23, Feb 3, 1996.

From rating curve extended above 36 ft³/s on basis of velocity-area study.

From rating curve extended above 1.1 ft³/s on basis of slope-area measurement of peak flow at gage height 4.45 ft, site and datum then in use.

From floodmarks.

f From floodmarks, site and datum then in use. Maximum gage height 7.84 ft, May 25, 1999.

PERIOD OF RECORD.--April 1998 to current year (seasonal records only).

07103980 COTTONWOOD CREEK AT WOODMEN ROAD NEAR COLORADO SPRINGS, CO--Continued

WATER-QUALITY RECORDS

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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				
07	1530	4.1	496	11.0	10	1215	2.0	549	20.0
JAN					JUN				
04	1100	1.2	649	2.5	14	1015	1.3	577	17.5
FEB					JUL				
01	1115	.87	688	3.0	18	1030	1.6	599	22.0
MAR					AUG				
14	0925	1.4	674	14.0	08	0910	1.0	624	17.0
APR					17	2015	9.8	220	17.0
04	1330	1.6	564	16.5	SEP				
26	1030	.93	627	12.5	07	1150	1.1	669	20.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
AUG 17	2015	9.8	17.0	2060	55
28	2015	30	18.0	10200	826

07103985 COTTONWOOD CREEK TRIBUTARY ABOVE RANGEWOOD DRIVE AT COLORADO SPRINGS, CO

LOCATION.--Lat $38^\circ55^\circ45^\circ$, long $104^\circ44^\circ48^\circ$, in $\mathrm{SE}^1/_4\mathrm{SW}^1/_4$ sec.11, T.13s., R.66W., El Paso County, Hydrologic Unit 11020003, on right bank 400 ft upstream from Dublin Road, 0.2 mi upstream from Rangewood Drive, 0.5 mi upstream from mouth, and 3.2 mi east of Interstate 25.

DRAINAGE AREA. -- 2.81 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- May 1998 to current year (seasonal records only).

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,630 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and those above 50 ${\rm ft}^3/{\rm s}$ which are poor. Natural flow of stream affected by runoff from industrial and residential areas of northeast Colorado Springs.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 268 ft³/s, Aug. 25, 2000, gage height, 7.61 ft, from rating curve extended above 65 ft³/s; minimum daily 0.18 ft³/s, Apr. 18, 1999.

EXTREMES FOR CURRENT YEAR (seasonal only).—Maximum discharge, 268 ${\rm ft}^3/{\rm s}$ at 1930 Aug. 25, gage height, 7.61 ft, from rating curve extended above 65 ${\rm ft}^3/{\rm s}$; minimum daily 0.35 ${\rm ft}^3/{\rm s}$, Apr. 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY MEAN VALUES DAY OCT MOM DEC TAN FEB MAR APR MAY TITIN TITT. ATTG SEP 71 .70 78 68 53 1 0 1.2 1 2 1.1 .73 .75 2.2 .68 .51 e1.2 3 .73 .77 ------------61 . 68 .57 1.0 1.2 e1.2 1.6 .61 .63 .68 .86 e1.2 5 .78 .63 .68 .70 .88 1.1 e1.2 .99 1.1 6 7 .83 .58 .68 .71 .89 e1.2 1.3 .62 .69 .74 .92 e1.2 .85 8 ___ ___ ___ ___ .58 18 .89 .94 1.0 1.3 ---------1.0 .81 .50 .85 .88 1.0 10 .80 .49 .96 .88 1.0 1.3 .64 11 12 .77 .72 ------------.56 .70 .67 .99 2.6 1.1 ___ .98 .91 13 .72 .42 .64 .75 .94 1.1 .98 ---1.0 ------------.76 1.3 14 . 69 .46 .65 .98 15 .62 .61 .79 2.1 1.1 60 .81 1.0 16 .40 2.5 .78 .74 4.6 1.5 1.5 .70 .79 17 ---------------.39 1.3 9.8 1.1 ------18 .36 .81 1.0 1.1 ___ ___ ___ 1.1 19 .63 .35 .93 1.1 20 .64 .37 .72 .79 .93 1.1 21 .65 .39 .70 .84 7.9 2.2 . 64 ---------------.43 . 68 .82 .74 .99 1.6 1.2 23 .66 .97 .68 2.8 24 25 .68 .74 .69 1.0 ------___ ---1.0 16 26 .69 .65 1.0 13 .96 9.0 1.1 27 28 .68 .63 .97 2.2 ___ ___ ___ ___ ___ .86 2.4 2.3 1.1 ------.92 e10 .84 1.1 29 .67 67 .80 . 98 1.2 e12 ___ ___ --------e1.5 30 . 69 .88 .73 .85 1.1 1.2 31 .70 .59 TOTAL 22.87 17.14 45.70 38.02 46.91 91.57 38.98 ------.74 1.3 ---___ ___ MEAN .57 1.47 1.27 1.51 2.95 1.30 ---------------MAX .94 13 9.8 16 MTN . 63 .35 .59 . 51 .86 . 98 . 98 91 75 AC-FT

e Estimated.

07103985 COTTONWOOD CREEK TRIBUTARY ABOVE RANGEWOOD DRIVE AT COLORADO SPRINGS, CO--Continued WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--SUSPENDED SEDIMENT: April 1998 to current year (seasonal records only).

INSTRUMENTATION. -- Pumping sediment sampler since April 1998.

REMARKS. -- Records of daily sediment are fair.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

EXTREMES FOR PERIOD OF RECORD.-SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 8,990 mg/L, Apr. 30, 1999; minimum daily mean, 2 mg/L,
Apr. 12, 1999 and Apr. 20, 2000.
SEDIMENT LOAD (seasonal only): Maximum daily, 900 tons, Apr. 30, 1999; minimum daily, 0.00 ton, many days in 1999 (some estimated).

EXTREMES FOR CURRENT YEAR.-SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 5,190 mg/L, Aug. 26; minimum daily mean, 2 mg/L, Apr. 20.
SEDIMENT LOAD (seasonal only): Maximum daily, 461 tons, Aug. 25; minimum daily, 0.00 ton, Apr. 18-21 (some estimated).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		DIS-		PH			COLI-	NITRO-	NITRO-		PHOS-
		CHARGE,	SPE-	WATER			FORM,	GEN,	GEN,		PHORUS
		INST.	CIFIC	WHOLE			FECAL,	NO2+NO3	AMMONIA	PHOS-	ORTHO,
		CUBIC	CON-	FIELD	TEMPER-	OXYGEN,	0.7	DIS-	DIS-	PHORUS	DIS-
		FEET	DUCT-	(STAND-	ATURE	DIS-	UM-MF	SOLVED	SOLVED	TOTAL	SOLVED
DATE	TIME	PER	ANCE	ARD	WATER	SOLVED	(COLS./	(MG/L	(MG/L	(MG/L	(MG/L
		SECOND	(US/CM)	UNITS)	(DEG C)	(MG/L)	100 ML)	AS N)	AS N)	AS P)	AS P)
		(00061)	(00095)	(00400)	(00010)	(00300)	(31625)	(00631)	(00608)	(00665)	(00671)
OCT											
20	0915	.65	1210	8.3	8.5	9.6	K15	6.54	<.020	E.032	<.010
APR											
20	1000	.42	1160	8.4	11.0	9.5	<1	6.16	<.020	<.050	<.010
JUN											
22	1030	.88	1060	8.3	20.5	7.0	260	5.14	<.020	.150	.093
AUG											
16	1030	1.1	1090	8.4	17.5	7.5	K3400	5.32	<.020	.099	.061

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		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	TIME	PER	ANCE	WATER
		SECOND	(US/CM)	(DEG C)			SECOND	(US/CM)	(DEG C)
		(00061)	(00095)	(00010)			(00061)	(00095)	(00010)
OCT					MAY				
08	0910	.86	1200	9.5	09	1145	1.4	817	17.5
14	1430	.67	1160	18.0	11	1300	.62	1190	21.5
NOV					30	1545	.62	1160	21.5
01	1215	.72	1130	12.0	JUN				
JAN					28	1245	.86	1160	17.0
04	1145	.52	1190	5.5	JUL				
FEB					11	1435	.80	1070	25.5
01	1130	.59	1210	6.5	17	1400	1.1	1020	23.0
MAR					17	1615	84	110	16.5
14	1145	.50	1210	11.5	18	1100	1.0	1060	21.5
31	0930	.57	1160	4.5	AUG				
31	1005	1.1	1530	3.0	07	1230	1.2	1090	24.5
APR					22	1100	.88	1020	20.0
05	0715	.54	1270	5.5	29	1435	1.6	1020	23.0
25	1115	1.2	551	13.5	SEP				
MAY					07	1300	1.2	1110	20.5
09	1130	.95	1020	18.0	12	1015	1.6	1050	15.0
					21	1000	1.2	1040	12.5

07103985 COTTONWOOD CREEK TRIBUTARY ABOVE RANGEWOOD DRIVE AT COLORADO SPRINGS, CO--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT						
08	0900	.88	9.5	253	.60	
20 NOV	0915	.65	8.5	24	.04	
01	1215	.72	12.0	13	.02	
DEC 06	1530	1.4	6.5	1130	4.3	
JAN 04	1145	E 2	5.5	36	. 05	
FEB	1145	.52	5.5	36	.05	
01 MAR	1130	.59	6.5	100	.16	
MAR 14	1145	.50	11.5	54	.07	
31	0930	.57	4.5	74	.11	
31	1005	1.1	3.0	1310	3.9	
APR 05	0715	.54	5.5	16	.02	
20	0715	.42	11.0	2	.02	
25	1115	1.2	13.5	67	.22	
MAY						
09	1130	.95	18.0	43	.11	
09 11	1145 1300	1.4	17.5 21.5	2760 44	10 .07	
30	1545	.62	21.5	56	.07	
JUN	1313	.02	21.5	30	.05	
13	1345	.74		35	.07	
22	1130	.80	22.5	69	.15	
28	1230	.86	17.0	134	.31	
JUL 11	1430	.81	25.5	5	.01	
17	1400	1.1	23.0	918	2.7	
17	1615	84	16.5	11900	2700	82
18	1100	1.0	21.5	513	1.4	
AUG						
04 07	1215 1330	1.1	23.5 24.5	93 10	.28	
16	1030	1.1	17.5	42	.13	
22	1100	.88	20.0	152	.36	
29	1415	1.6	23.0	455	1.9	
SEP						
07	1300	1.2	20.5	313	1.0	
12 21	1015 1000	1.6 1.2	15.0 12.5	168 214	.73 .69	
21	1000	1.4	12.5	214	.09	

07103985 COTTONWOOD CREEK TRIBUTARY ABOVE RANGEWOOD DRIVE AT COLORADO SPRINGS, CO--Continued SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER		D	ECEMBER	
1	.71		e.03	.70	13	.03			
2	.73 .73		e.03 e.03						
4	.77		e.03						
5	.78		e.03						
6	.83		e.03						
7 8	1.3 .85	354 286	2.4 .65						
9	.81	172	.38						
10	.80		e.31						
11	.77		e.26						
12 13	.72 .72		e.20 e.17						
14	.69		e.14						
15	.71		e.12						
16	.76		e.18						
17 18	. 70 . 79		e.08 e.20						
19	.63	25	.04						
20	.64	24	.04						===
21	.65		e.04						
22 23	. 64 . 66		e.04 e.04						
24	.68		e.04						
25	.68		e.03						
26	.69		e.03						
27 28	. 68 . 69		e.03 e.03						
29	.67		e.03						
30 31	. 69 . 70		e.03 e.03						
moma r	22.87		F 70	0.70		0.03	0		0
TOTAL	22.87		5.72	0.70		0.03	U		U
DAY	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)
DAY	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE
	DISCHARGE	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION	DISCHARGE
DAY 1 2	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE
1 2 3	DISCHARGE (CFS)	CONCENTRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2	DISCHARGE (CFS)	CONCENTRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5	DISCHARGE (CFS)	CONCENTRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5	DISCHARGE (CFS)	CONCENTRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)

07103985 COTTONWOOD CREEK TRIBUTARY ABOVE RANGEWOOD DRIVE AT COLORADO SPRINGS, CO--Continued SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	.78 .75 .61 .63	775 21	1.9 e1.1 e.15 e.04	.68 .68 .68 .68	118 	e.26 e.24 .22 e.19 e.17	.53 .51 .57 .61	93 	e.15 .13 e.14 e.16 e.19
6 7 8 9 10	.58 .62 .58 .50	21 18 15 14	.03 .03 e.03 .02	.68 .69 18 1.0 .64	77 55 2600 834 	.14 .10 189 1.8 e1.1	.71 .74 .89 .85	102 47 55	.20 e.16 e.14 .11
11 12 13 14 15	.56 .46 .42 .46	56 13 118	.11 .02 e.01 e.01 .66	.70 .67 .64 .65	229 38 27 	.43 .07 e.05 .05 e.05	.99 .75 .75 .76	38 46	e.13 e.08 .08 .09 e.10
16 17 18 19 20	.40 .39 .36 .35	8 2	e.02 .01 e.00 e.00	.60 2.5 .78 .74	830 	e.07 12 e.61 e.29 e.18	.81 1.3 .81 1.1 .79	47 311 	.10 e2.0 e.15 2.3 e.19
21 22 23 24 25	.39 .43 .60 .74	 6 35 81	e.00 .01 e.14 .09 .22	.70 .68 .68 4.6 1.2	 967 	e.16 e.14 e.12 57 e3.3	.84 .82 .74 .69	 66 38 70	e.17 .15 e.09 .07 .20
26 27 28 29 30 31	.65 .63 .65 .67	70 103 	.12 e.14 e.16 .19 e.84	1.0 .86 .84 .80 .73	 64 105	e2.3 e.67 e.33 e.18 .13	13 2.4 .92 .98 .85	2170 158 242 	123 e6.6 .39 .74 e.46
TOTAL	17.14		6.11	45.70		271.52	38.02		138.61
DAY	MEAN DISCHARGE (CFS)	TRATION	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)
	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION	DISCHARGE (TONS/DAY)
DAY 1 2 3 4 5	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE
1 2 3 4	1.0 2.2 1.0 .86	CONCENTRATION (MG/L) JULY 198 322	DISCHARGE (TONS/DAY) .54 5.9 e.84 e.17	DISCHARGE (CFS) 1.2 1.1 1.2 1.6	CONCENTRATION (MG/L) AUGUST 431	DISCHARGE (TONS/DAY) e.44 e.38 e.36 2.6	DISCHARGE (CFS) SI 1.2 e1.2 e1.2 e1.2 e1.2	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY) e1.3 e1.2 e1.2 e1.2
1 2 3 4 5 6 7 8 9	1.0 2.2 1.0 .86 .88 .89 .92 .94	CONCENTRATION (MG/L) JULY 198 322 41 24 14 8	DISCHARGE (TONS/DAY) .54 5.9 e.84 e.17 .10 .06 .04 e.03 .02	1.2 1.1 1.2 1.1 1.2 1.6 1.1 .99 1.1 1.0	CONCENTRATION (MG/L) AUGUST 431 13 28 37	DISCHARGE (TONS/DAY) e.44 e.38 e.36 2.6 e.13 e.04 .04 .08 .10	DISCHARGE (CFS) SH 1.2 e1.2 e1.2 e1.2 e1.2 e1.2 1.3 1.7	CONCENTRATION (MG/L) EPTEMBER 365	DISCHARGE (TONS/DAY) e1.3 e1.2 e1.2 e1.2 e1.1 e1.0 e1.0 e1.3 1.7
1 2 3 4 5 6 7 8 9 10 11 12 2 13	1.0 2.2 1.0 86 .88 .89 .92 .94 .88 .88	CONCEN- TRATION (MG/L) JULY 198 322 41 24 14 8 20 5	DISCHARGE (TONS/DAY) .54 5.9 e.84 e.17 .10 .06 .04 e.03 .02 e.02 .07 e.02 e.01 .01	1.2 1.1 1.2 1.1 1.2 1.6 1.1 1.0 1.0 1.0 2.6 .98 1.1	CONCEN- TRATION (MG/L) AUGUST 431 13 28 37 39 1030 971 615	DISCHARGE (TONS/DAY) e.44 e.38 e.36 2.6 e.13 e.04 .04 .08 .10 .11 9.5 e5.2 2.8 2.8	DISCHARGE (CFS) SH 1.2 e1.2 e1.2 e1.2 e1.2 1.3 1.7 1.3 1.1 1.2 98 1.0	CONCENTRATION (MG/L) EPTEMBER 365 212 297 237	DISCHARGE (TONS/DAY) e1.3 e1.2 e1.2 e1.2 e1.2 e1.0 e1.0 e1.0 e1.0 e1.3 1.7 e1.0 e.66 .66 .79 .64
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	DISCHARGE (CFS) 1.0 2.2 1.0 .86 .88 .89 .92 .94 .88 .88 .96 .91 .94 .98 2.1 5.5 9.8 1.0 .93	CONCEN- TRATION (MG/L) JULY 198 322 41 24 14 8 5 368 2460 2180 638 693	DISCHARGE (TONS/DAY) .54 5.9 e.84 e.17 .10 .06 .04 e.03 .02 e.02 .07 e.02 e.01 .01 3.0 76 361 1.8	DISCHARGE (CFS) 1.2 1.1 1.2 1.6 1.1 1.0 1.0 2.6 98 1.1 1.3 1.1 1.0 4.6 1.5 1.5	CONCENTRATION (MG/L) AUGUST 431 13 28 37 39 1030 971 615 193 49 532 563	DISCHARGE (TONS/DAY) e.44 e.38 e.36 2.6 e.13 e.04 .04 .08 .10 .11 9.5 e5.2 2.8 .70 .14 14 e2.8 2.7	DISCHARGE (CFS) SH 1.2 e1.2 e1.2 e1.2 e1.2 1.3 1.7 1.3 1.1 1.2 98 1.0 1.1 1.1 1.1 1.1	CONCENTRATION (MG/L) EPTEMBER 365 212 297 237 197 198 224	e1.3 e1.2 e1.2 e1.2 e1.2 e1.0 e1.0 e1.0 e1.0 e1.6 66 .79 .64 e.64
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	DISCHARGE (CFS) 1.0 2.2 1.0 .86 .88 .89 .92 .94 .88 .88 .96 .91 .94 .98 2.1 5.5 9.8 1.0 .93 .93 .93	CONCENTRATION (MG/L) JULY 198 322 41 24 14 8 5 368 2460 2180 638 693 624 288 221 229	DISCHARGE (TONS/DAY) .54 5.9 e.84 e.17 .10 .06 .04 e.03 .02 e.02 e.01 .01 3.0 76 361 1.8 1.8 1.8 1.6 .77 .59 e.54 .71	DISCHARGE (CFS) 1.2 1.1 1.2 1.6 1.1 1.0 2.6 98 1.1 1.3 1.1 1.0 4.6 1.5 1.5 1.1 7.9 1.6 1.1 1.0	CONCENTRATION (MG/L) AUGUST 431 13 28 37 39 1030 971 615 193 49 532 563 1940 395 135	DISCHARGE (TONS/DAY) e. 44 e. 38 e. 36 e. 36 e. 13 e. 04 .04 .08 .10 .11 9. 5 e5. 2 2. 8 2. 8 .70 .14 14 e2. 8 2. 7 e. 65 226 2. 0 e. 48 .38	DISCHARGE (CFS) SH 1.2 e1.2 e1.2 e1.2 e1.2 e1.3 1.7 1.3 1.1 1.2 98 1.0 1.1 1.1 1.1 1.1 1.1 1.1 2.2 2.8 2.4	CONCENTRATION (MG/L) EPTEMBER 365 212 297 237 197 198 224 916 2320	DISCHARGE (TONS/DAY) e1.3 e1.2 e1.2 e1.2 e1.2 e1.0 e1.0 e1.0 e1.66 .66 .79 .64 e.64 .57 e.56 .59 .64 e.63

e Estimated.

07103990 COTTONWOOD CREEK AT MOUTH AT PIKEVIEW, CO

LOCATION.--Lat $38^\circ55^\circ41^*$, long $104^\circ48^\circ35^*$ (revised), in $SW^1/_4SW^1/_4$ sec.8, T.13 S, R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank 20 ft upstream from Vincent Drive bridge, 0.3 mi south of Woodmen Road, and 0.3 mi upstream from

DRAINAGE AREA. -- 18.7 mi².

WATER-DISCHARGE RECORDS

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 $900 \text{ ft}^3/\text{s}$, which are poor. Natural flow of stream affected by runoff from industrial and residential areas of northeast Colorado Springs. DISCURDED CHIDIC DEET DED CECOND WATER VERD OCTORED 1000 TO CEDTEMBER 2000

		DISCHA	RGE, CUBI	C FEET PER		WATER YE MEAN VA	AR OCTOBER	R 1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	7.0 7.0 7.3 7.0 7.6	5.5 6.4 7.1 5.4 4.5	6.1 6.3 7.7 5.9 7.9	e7.0 e7.0 e7.0 e7.0 e7.0	e7.0 e7.0 7.4 6.7 6.8	6.2 6.3 6.5 8.1 7.8	8.4 6.5 7.0 8.6 7.5	e6.5 e6.5 e6.0 e6.0 e5.0	4.8 5.3 8.1 8.4 7.8	8.6 13 7.8 4.5 4.9	11 14 10 9.4 7.3	9.7 8.6 12 11 14
6 7 8 9 10	7.9 18 8.2 7.2 6.8	5.8 4.2 6.9 5.7 5.5	6.2 6.5 7.1 7.0 8.8	6.4 e6.0 e7.0 e7.0 e8.0	6.7 6.8 7.7 7.1 8.9	7.9 23 9.1 4.9 6.3	5.9 5.5 5.7 6.7 6.5	e4.5 4.1 126 9.7 8.7	7.6 7.3 6.5 7.2 6.9	5.5 8.9 6.7 4.3 4.7	9.5 8.3 6.5 5.7 6.6	13 12 11 11
11 12 13 14 15	6.3 6.4 8.0 8.1 6.5	5.0 5.0 4.3 5.2 5.8	5.9 6.5 8.3 e7.0 e8.0	8.0 8.1 8.0 8.1 e8.0	10 8.8 8.8 9.8 9.0	6.3 7.0 5.0 4.7 5.1	6.5 5.6 e5.0 e6.0 6.8	12 11 6.9 7.0 6.6	7.4 e7.0 6.2 e6.0 5.6	4.5 5.7 8.1 8.8 22	16 6.9 8.1 7.1 8.4	8.1 8.4 8.6 7.8 7.6
16 17 18 19 20	10 7.6 12 12 10	6.3 5.7 6.8 6.4 5.4	6.5 e8.0 9.1 7.9 8.4	e8.0 e8.0 e9.0 9.3 9.9	8.9 10 9.3 7.1 6.5	24 13 9.0 6.3 5.1	e6.0 e5.0 e5.0 e5.0 4.7	6.7 16 7.8 7.5 7.3	5.7 10 7.7 10 4.8	33 63 9.4 7.6 12	7.8 25 11 6.1 9.1	7.7 8.5 7.0 6.6 7.6
21 22 23 24 25	8.4 8.5 8.1 7.4 5.8	5.7 14 9.4 8.1 8.4	e8.0 e7.0 6.7 9.5 e9.0	9.0 8.7 e8.0 e7.0 e7.0	7.6 6.1 6.6 6.1 4.6	8.0 13 8.4 6.5 5.9	e5.0 e5.0 5.2 e5.5 e5.5	7.7 8.3 7.7 26 4.8	5.7 5.9 5.3 7.3 7.6	13 13 9.5 7.2 6.8	49 8.3 5.8 6.9 86	18 7.1 15 12 6.4
26 27 28 29 30 31	7.6 9.1 12 8.3 6.0 5.3	13 9.8 6.8 6.1 6.4	e9.0 e8.0 e8.0 e8.0 e8.0	e9.0 e7.0 e6.0 e6.0 e7.0	5.9 6.6 7.5 8.0 	7.0 6.6 6.1 7.2 11	e5.5 e5.5 6.6 11 7.0	5.4 5.4 7.0 4.5 5.0 5.3	74 17 8.4 14 7.8	6.9 6.8 14 7.2 6.5 9.1	25 7.8 43 45 8.6 15	7.9 6.8 6.2 6.6 5.8
TOTAL MEAN MAX MIN AC-FT	257.4 8.30 18 5.3 511	200.6 6.69 14 4.2 398	233.3 7.53 9.5 5.9 463	235.5 7.60 9.9 6.0 467	219.3 7.56 10 4.6 435	270.3 8.72 24 4.7 536	185.7 6.19 11 4.7 368 BY WATER	358.9 11.6 126 4.1 712	293.3 9.78 74 4.8 582	343.0 11.1 63 4.3 680	494.2 15.9 86 5.7 980	282.0 9.40 18 5.8 559
MEAN MAX (WY) MIN (WY)	5.64 9.59 1995 1.93 1987	5.07 9.18 1998 2.90 1987	4.38 7.90 1998 1.92 1992	4.22 7.60 2000 2.30 1987	4.47 7.56 2000 2.28 1990	5.50 11.1 1992 2.57 1999	7.11 33.3 1999 3.31 1989	9.64 40.7 1999 2.71 1986	9.79 26.4 1995 3.05 1990	8.85 20.6 1999 2.34 1992	9.54 27.7 1999 5.41 1993	6.34 13.9 1999 2.67 1986
SUMMARY	Y STATIST	ICS	FOR	1999 CALEN	DAR YEAR	F	OR 2000 WA	ATER YEAR		WATER Y	EARS 1986	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC	MEAN F ANNUAL MANNUAL MEDAILY MEDAILY MEDEVEN-DATANEOUS PORTON NEW MEDICANEOUS PORTON NEW MEANEOUS PORTON NEW MEANEOUS PANEOUS	EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		5965.6 16.3 500 1.9 2.1 11830 29 8.0 3.0	Apr 30 Mar 5 Mar 2		3373.5 9.22 126 4.1 5.0 a1150 6.58 6690 12 7.2 5.3	May 8 May 7 Apr 17 Jul 17		6.99 15.7 4.00 500 .01 b2380 c8.26 5000 4.5 2.4	L Apr L Jul 2 Jul Jun	1999 1989 30 1999 10 1989 5 1989 17 1993 26 1996

e Estimated.

From rating curve extended above 900 ft^3/s . From rating curve extended above 127 ft^3/s , on basis of culvert measurement of peak flow, gage height not

c From flood mark, maximum gage height for flood of Jun 17, 1993 not determined.

07103990 COTTONWOOD CREEK AT MOUTH AT PIKEVIEW, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--SUSPENDED SEDIMENT: April 1998 to current year (seasonal records only).

INSTRUMENTATION. -- Pumping sediment sampler since April 1998.

REMARKS. -- Records of daily suspended sediment are fair.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

EXTREMES FOR PERIOD OF DAILY RECORD.-SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 7,870 mg/L, May 25, 1999; minimum daily mean, 180 mg/L,
March 30, 1999.
SEDIMENT LOAD (seasonal only): Maximum daily, 13,500 tons (estimated), April 30, 1999; minimum daily, 1.2 tons (estimated),
March 31, 1999.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 5,020 mg/L, July 16; minimum daily mean, 212 mg/L, Oct. 4.
SEDIMENT LOAD (seasonal only): Maximum daily, 3,280 tons (estimated), May 8; minimum daily, 2.9 tons (estimated), July 11.

WATER-OUALIT	בידבת ע	MATER	VEAR	OCTOBER	1999	TO	SEDTEMBER	2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 20 APR	0815	10	712	8.1	3.0	11.0	K180	5.67	<.020	.127	.015
20	1115	4.5	679	8.5	15.0	8.1	K13	5.59	<.020	.154	.010
JUN 22 AUG	1245	5.7	673	8.5	28.0	6.2	K210	4.86	<.020	.151	.011
16	0900	6.6	722	8.6	18.0	7.4	K1400	4.94	<.020	.209	.023

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		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	TIME	PER	ANCE	WATER
		SECOND	(US/CM)	(DEG C)			SECOND	(US/CM)	(DEG C)
		(00061)	(00095)	(00010)			(00061)	(00095)	(00010)
OCT					MAY				
06	1050	8.1	741	13.5	09	0930	9.2	587	11.0
NOV					31	1245	4.1	689	28.0
01	1045	6.6	719	8.0	JUN				
DEC					14	1215	5.6	689	24.5
07	1100	5.7	736	4.5	28	1445	6.7	686	18.0
JAN					JUL				
04	1345	15	721	.5	12	1020	6.4	701	22.5
FEB					18	1345	7.1	634	29.0
01	1300	14	701	.5	AUG				
MAR					23	0945	7.6	687	18.0
15	1215	5.1	716	6.5	SEP				
APR					15	0900	10	770	13.0
25	1315	5.7	618	20.0					

07103990 COTTONWOOD CREEK AT MOUTH AT PIKEVIEW, CO--Continued SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

	DATE	TIME	FEET PER SECOND	(DEG C)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	(T/DAY)
00	CT					
NC	06 20		6.1 10	13.5 3.0	855 415	
	01	1045	6.6	8.0	325	5.8
	07	1100	5.7	4.5	367	5.6
	04 B	1345	15	.5	658	27
	01 \R	1300	14	.5	992	39
	15 28	1215 1015	5.1 5.7	6.5 12.0	565 421	7.8 6.5
	PR 25 AY	1315	5.7	20.0	548	8.4
	09 31 JN	0930 1245		11.0 28.0	688 356	17 3.9
	14 22 28	1215 1230 1430	5.6 6.6 7.1	24.5 28.0 18.0	406 295 379	6.1 5.3 7.3
	Љ 12 18	1015 1345	5.7 7.1	 29.0	222 579	3.4 11
	JG 04 16 23 29	1000 0845 0945 1530	7.6 6.6 7.6 8.1	21.0 18.0 18.0 25.5	581 581 729 875	12 10 15 19
SE	EP 15	0900	10	13.0	463	13

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		MEAN			MEAN			MEAN	
	MEAN	CONCEN-	SEDIMENT	MEAN	CONCEN-	SEDIMENT	MEAN	CONCEN-	SEDIMENT
	DISCHARGE	TRATION	DISCHARGE	DISCHARGE	TRATION	DISCHARGE	DISCHARGE	TRATION	DISCHARGE
DAY	(CFS)	(MG/L)	(TONS/DAY)	(CFS)	(MG/L)	(TONS/DAY)	(CFS)	(MG/L)	(TONS/DAY)
		OCTOBER		1	NOVEMBER		DI	ECEMBER	
1	7.0		e4.3	5.5			6.1		
2	7.0	274	5.5	6.4			6.3		
3	7.3		e3.9	7.1			7.7		
4	7.0	212	4.2	5.4			5.9		
5	7.6		e5.9	4.5			7.9		
6	7.9		e6.1	5.8			6.2		
7	18	666	70	4.2			6.5		
8	8.2	522	12	6.9			7.1		
9	7.2	439	8.5	5.7			7.0		
10	6.8	355	6.5	5.5			8.8		
11	6.3		e4.8	5.0			5.9		
12	6.4	240	4.2	5.0			6.5		
13	8.0	281	6.6	4.3			8.3		
14	8.1	336	7.5	5.2			e7.0		
15	6.5		e5.1	5.8			e8.0		
16	10		e18	6.3			6.5		
17	7.6		e7.6	5.7			e8.0		
18	12		e24	6.8			9.1		
19	12		e21	6.4			7.9		
20	10	427	12	5.4			8.4		
21	8.4		e9.0	5.7			e8.0		
22	8.5		e9.0	14			e7.0		
23	8.1		e8.6	9.4			6.7		
24	7.4		e7.8	8.1			9.5		
25	5.8	386	6.0	8.4			e9.0		
26	7.6		e6.8	13			e9.0		
27	9.1	296	7.3	9.8			e8.0		
28	12		e9.8	6.8			e8.0		
29	8.3	327	7.4	6.1			e8.0		
30	6.0		e5.3	6.4			e8.0		
31	5.3		e4.7				e7.0		
TOTAL	257.4		319.4	200.6		0	233.3		0

07103990 COTTONWOOD CREEK AT MOUTH AT PIKEVIEW, CO--Continued

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY		1	FEBRUARY			MARCH	
1 2	e7.0			e7.0 e7.0			6.2 6.3		===
3	e7.0 e7.0			7.4			6.5		
4 5	e7.0 e7.0			6.7 6.8			8.1 7.8		
6	6.4			6.7			7.9		
7	e6.0			6.8			23		
8 9	e7.0 e7.0			7.7 7.1			9.1 4.9		
10	e8.0			8.9			6.3		
11 12	8.0 8.1			10 8.8			6.3 7.0		
13	8.0			8.8			5.0		
14 15	8.1 e8.0			9.8 9.0			4.7 5.1		
16	e8.0			8.9			24		
17 18	e8.0 e9.0			10 9.3			13 9.0		
19	9.3			7.1			6.3		
20	9.9			6.5			5.1		
21 22	9.0 8.7			7.6 6.1			8.0 13		
23	e8.0			6.6			8.4		
24 25	e7.0 e7.0			6.1 4.6			6.5 5.9		
26	e9.0			5.9			7.0		
27 28	e7.0 e6.0			6.6 7.5			6.6 6.1		
29 30	e6.0 e7.0			8.0			7.2 11		
31	e7.0						19		
TOTAL	235.5		0	219.3		0	270.3		0
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	8.4		e12	e6.5		e10	4.8	576	7.5
2	6.5 7.0	576 	10 e11	e6.5 e6.0		e10 e9.7	5.3 8.1		e7.6 e10
4 5	8.6 7.5		e14 e12	e6.0 e5.0		e9.7 e8.1	8.4 7.8	424	9.7 e9.0
6	5.9	582	9.3	e4.5		e7.3	7.6	435	8.9
7	5.5	587	8.6	4.1		e6.6	7.3		e8.0
8 9	5.7 6.7	698 	11 e12	126 9.7	886	e3280 25	6.5 7.2	357	e6.7 6.9
10	6.5		e11	8.7		e15	6.9		e7.2
11 12	6.5 5.6	 523	e10 7.9	12 11	601 600	19 18	7.4 e7.0	431	8.6 e8.1
13	e5.0		e6.7	6.9		e11	6.2		e7.1
14 15	e6.0 6.8		e7.6 e14	7.0 6.6		e11 e11	e6.0 5.6		e6.5 e5.0
16	e6.0		e7.2	6.7		e11	5.7	271	4.2
17 18	e5.0 e5.0		e5.3 e5.0	16 7.8		e197 e20	10 7.7	848	40 e6.5
19 20	e5.0 4.7		e4.8 e4.3	7.5 7.3	703	14 e8.5	10 4.8	565 	28 e3.8
21 22	e5.0 e5.0		e4.3 e4.2	7.7 8.3		e5.6 e6.5	5.7 5.9	294	e4.6 4.6
23 24	5.2 e5.5	452 	12 e13	7.7 26	2200	e7.0 452	5.3 7.3	 265	e4.2 5.3
25	e5.5		e8.3	4.8		e14	7.6	336	11
26	e5.5		e8.3	5.4		e7.0	74	4640	1860
27 28	e5.5 6.6		e8.5 e10	5.4 7.0		e6.6 e8.1	17 8.4	2340 464	160 11
29 30	11 7.0		e45 e28	4.5 5.0		e4.8 e5.1	14 7.8	1120	117 e10
31				5.3	386	5.6			

07103990 COTTONWOOD CREEK AT MOUTH AT PIKEVIEW, CO--Continued

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)
		JULY			AUGUST		SE	PTEMBER	
1 2 3 4 5	8.6 13 7.8 4.5 4.9	 	e12 e95 e29 e5.7 e5.7	11 14 10 9.4 7.3	 1250 	e18 e203 e82 48 e7.0	9.7 8.6 12 11 14	448 	e19 10 e13 e13 e16
6 7 8 9 10	5.5 8.9 6.7 4.3 4.7	 274 	e5.7 e8.1 e5.5 3.2 e3.2	9.5 8.3 6.5 5.7 6.6	277 217 239 242	7.1 e5.1 3.8 3.7 4.3	13 12 11 11 10	 	e15 e14 e13 e13 e13
11 12 13 14 15	4.5 5.7 8.1 8.8 22	255 331 1210	e2.9 3.9 e7.0 7.9 287	16 6.9 8.1 7.1 8.4	1250 453 385 	180 e9.9 10 7.4 e11	8.1 8.4 8.6 7.8 7.6	 434	e9.8 e10 e11 e9.7 8.9
16 17 18 19 20	33 63 9.4 7.6 12	5020 3970 686 579	1320 2390 18 12 e19	7.8 25 11 6.1 9.1	576 	12 e342 e104 e13 e20	7.7 8.5 7.0 6.6 7.6	348 413 328 349	7.2 9.4 6.3 e5.4 7.2
21 22 23 24 25	13 13 9.5 7.2 6.8	584 665 662	20 23 e18 e13 12	49 8.3 5.8 6.9 86	2130 700 422 2600	950 e36 11 8.1 2700	18 7.1 15 12 6.4	822 	e162 16 e104 e60 e10
26 27 28 29 30 31	6.9 6.8 14 7.2 6.5 9.1	750 631 706 	14 12 e158 14 e12 e16	25 7.8 43 45 8.6 15	3640 2350 2720 	613 e40 966 1010 e18 e100	7.9 6.8 6.2 6.6 5.8	 	e12 e11 e9.5 e9.8 e8.3
TOTAL	343.0		4552.8	494.2		7543.4	282.0		626.5

e Estimated.

07104000 MONUMENT CREEK AT PIKEVIEW, CO

LOCATION.--Lat $38^{\circ}55^{\circ}04^{\circ}$, long $104^{\circ}49^{\circ}05^{\circ}$, in $NW^{1}/_{4}SE^{1}/_{4}$ 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 Road

DRAINAGE AREA. -- 204 mi².

PERIOD OF RECORD.--October 1938 to September 1949, January 1976 to current year. Water-quality data available, April 1975 to September 1999. Suspended sediment discharge data available, August 1995 to September 1997 (for peak flows only).

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.

Oct. 1938 to Sept. 1949, nonrecording gage at present site at datum 2.10 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 and municipal use, 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 1999 TO SEPTEMBER 2000

		DISCHAR	GE, CUBIC	: FEET PER		MEAN VA	LUES	1999 10	SEPTEMBE	K 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	42	34	e30	e28	37	53	79	38	e25	e18	e30
2	32	37	e34	e35	e30	36	55	73	38	e35	e25	e25
3	34	36	e36	e32	e30	35	57	73	33	30	e20	e25
4	35	35	e35	e30	e32	38	62	71	29	21	e19	e25
5	37	32	e32	e30	e32	38	61	68	30	20	e19	e20
6 7	39 60	29 29	e35 e35	e30 e28	e34 35	46 70	67 68	55 43	29 27	21 19	e19 e19	e20 e20
8	54	32	e33	e30	35	68	75	266	28	19	e19	e19
9	49	30	e32	e30	34	49	77	101	29	23	e19	e19
10	46	28	e34	e34	34	45	89	65	26	21	e19	18
11	45	30	e32	e32	32	36	89	64	26	19	e19	16
12	43	30	e30	e32	35	36	85	63	25	23	e18	17
13	42	33	e30	e30	32	38	83	49	24	27	e18	18
14 15	43 45	30 31	e30 e28	e32 e30	35 38	33 41	83 82	51 e48	22 22	25 58	e18 e18	17 18
16 17	54 53	31 31	e35 e32	e32 e32	38 39	83 58	78 75	e40 48	22 30	52 132	e18 e30	19 18
18	61	33	e32 e32	e32 e32	52	45	75 77	48 70	26	e35	e30 e35	18
19	58	33	e32	34	40	40	80	65	25	e24	e25	21
20	48	38	e32	e34	35	51	76	58	23	e26	e22	22
21	42	34	e30	e32	32	48	78	46	18	e24	e60	29
22	42	e50	e30	e32	39	51	81	34	19	e22	e30	31
23	51	e40	e32	e30	40	52	78	29	15	e21	e25	42
24	51	e35	e32	e30	35	51	90	60	16	e20	e20	60
25	45	e35	e32	32	33	49	76	71	21	e20	e110	29
26	44	55	e32	e40	36	e47	70	e50	148	e21	69	28
27	40	e35	e32	e44	32	e46	72	e38	80	e21	27	22
28 29	38 39	e33 e32	32 e32	e34 e30	34 39	e44 45	72 76	e35 e30	37 35	e30 e25	58 98	20 17
30	38	e32	e32	e28		52	85	30	26	e19	29	17
31	36		e30	e28		74		38		e18	37	
TOTAL	1380	1031	997	989	1020	1482	2250	1911	967	896	980	700
MEAN	44.5	34.4	32.2	31.9	35.2	47.8	75.0	61.6	32.2	28.9	31.6	23.3
MAX	61	55	36	44	52	83	90	266	148	132	110	60
MIN	32	28	28	28	28	33	53	29	15	18	18	16
AC-FT	2740	2040	1980	1960	2020	2940	4460	3790	1920	1780	1940	1390
STATIST	ICS OF MC	NTHLY MEA	N DATA FO	OR WATER Y	ZEARS 1939	- 2000,	BY WATER Y	EAR (WY)				
MEAN	19.6	18.5	15.3	14.1	15.3	22.2	51.9	97.5	49.8	27.8	31.9	17.0
MAX	82.8	55.3	32.2	31.9	35.2	52.4	259	399	190	97.6	149	46.7
(WY)	1985	1985	2000	2000	2000	1998	1942	1999	1999	1999	1999	1985
MIN	1.90	4.27	3.95	4.40	4.06	6.67	10.2	12.7	5.20	2.01	1.11	1.74
(WY)	1940	1979	1979	1979	1940	1944	1978	1946	1976	1939	1940	1939
SUMMARY	STATISTI	CS.	FOR 1	1999 CALEN	IDAR YEAR	F	OR 2000 WAT	ER YEAR		WATER YEA	ARS 1939	- 2000
ANNUAL '	TOTAL			37976			14603					
ANNUAL I	MEAN			104			39.9			32.4		
	ANNUAL M									100		1999
	ANNUAL ME							_		8.21	_	1978
	DAILY ME			2950	Apr 30		266	May 8		2950		0 1999
	DAILY MEA	MINIMUM		13 14	Mar 24 Mar 24		15 18	Jun 23		.00		4 1939 0 1939
	SEVEN-DAY ANEOUS PE			14	Mar 24		1390	Sep 9 Jul 17		.21 4890	Dul 2	0 1939
		AK FLOW					9.05			11.10	Apr 3	0 1999
	RUNOFF (A			75330			28970	J 41 11		23460	- 1P-1	
	ENT EXCEE			257			70			65		
	ENT EXCEE			39			34			18		
90 PERC	ENT EXCEE	DS		20			20			5.0		

e Estimated.

07104050 NORTH ROCKRIMMON CREEK ABOVE DELMONICO DRIVE AT COLORADO SPRINGS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $38^\circ54^\circ56^\circ$, long $104^\circ49^\circ35^\circ$, in $SW^1/_4NE^1/_4$ sec.18, T.13 S., R.66 W., El Paso County, Hydrologic Unit 11020003, 0.1 mi upstream from Delmonico Drive, 0.2 mi west of Interstate 25, 0.3 mi upstream from mouth, and 2.0 mi downstream from Woodmen Road. Elevation of site is 6,220 feet above sea level, from topographic map.

DRAINAGE AREA.--1.82 mi².

PERIOD OF RECORD.--April 1998 to current year (seasonal records only).

 ${\tt REMARKS.--Annual\ maximum\ discharge\ data\ are\ published\ in\ the\ "Maximum\ Discharge\ at\ Crest-Stage\ Partial-Record\ Stations"\ section\ of\ this\ report.}$

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
AUG		(00061)	(00095)	(00010)	AUG		(00061)	(00095)	(00010)
17	1930	5.9	590	18.5	28	1945	75	349	21.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		DIS-			SEDI-
		CHARGE,			MENT,
		INST.		SEDI-	DIS-
		CUBIC	TEMPER-	MENT,	CHARGE,
		FEET	ATURE	SUS-	SUS-
DATE	TIME	PER	WATER	PENDED	PENDED
		SECOND	(DEG C)	(MG/L)	(T/DAY)
		(00061)	(00010)	(80154)	(80155)
AUG					
17	1930	5.9	18.5	3990	63
28	1945	75	21.5	7650	1560

arkansas river basin 253

07104905 MONUMENT CREEK AT BIJOU STREET, AT COLORADO SPRINGS, CO

WATER-OUALITY RECORDS

LOCATION.--Lat 38°50'14", long 104°49'44", in $\mathrm{NW}^1/_4\mathrm{NW}^1/_4$ sec.18, T.14 S., R.66 W., El Paso County, Hydrologic Unit 11020003, at bridge on Bijou Street in Colorado Springs.

DRAINAGE AREA. -- 235 mi².

15...

1.2

3

10900

<10

19

<1

324

6

<.3

<.2

PERIOD OF RECORD. -- December 1979 to current year.

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DIS-PΗ OXYGEN COLI-CHARGE. SPE-WATER MAGNE-FLUO-DEMAND. FORM. INST. CIFIC WHOLE BIO-FECAL, CALCIUM SIUM, SULFATE RIDE, CON-FIELD TEMPER-OXYGEN, CHEM-0.7 DTS-DTS-DTS-DTS-DIS-UM-MF SOLVED SOLVED SOLVED SOLVED ICAL, DATE TIME PER ANCE ARD WATER SOLVED 5 DAY (COLS./ (MG/L (MG/L (MG/L (MG/L SECOND (US/CM) UNITS) (DEG C (MG/L) (MG/L) 100 ML) AS CA) AS MG) AS SO4) AS F) (00061)(00095) (00400) (00010) (00300) (00310) (31625)(00915)(00925)(00945)(00950) OCT 21... 1230 47 636 8.5 10.0 9.6 <1.0 84 82.0 15.0 120 1.3 DEC 16... 0900 32 702 8.5 .0 11.8 <1.0 80 89.8 16.7 150 1.4 FEB 16... 33 618 8.4 6.5 10.4 <1.0 K24 73.4 14.2 140 1145 1.3 APR 1315 94 374 16.0 7.9 <1.0 K28 42.9 7.63 69.0 18... 8.4 1.5 NUL 880 80.2 1345 28 646 8.4 26.0 6.5 1.4 13.4 130 1.2 20... AUG 15... 1445 23 696 8.5 27.0 6.2 2.7 1900 84.3 14.6 150 1.2 NITRO-NITRO-PHOS-CHRO-PHORUS BORON, CADMIUM GEN, GEN, MIUM, NO2+NO3 AMMONIA PHOS-ORTHO, ARSENIC TOTAL BORON, WATER CADMIUM ARSENIC PHORUS UNFLTRD DIS-DIS-DIS-DIS-RECOV-DIS-DIS-RECOV SOLVED SOLVED TOTAL SOLVED TOTAL SOLVED ERABLE SOLVED TOTAL SOLVED ERABLE DATE (MG/L (MG/L (MG/L (MG/L (UG/L (UG/L (UG/L (UG/L (UG/L (UG/L (UG/L AS CD) (00665) (01022)(01020)(01027)(00631)(00608)(00671)(01002)(01000)(01025)(01034) OCT 21... 2.80 <.020 .200 .070 1 <1.0 63 62 .1 <.1 <1 DEC 16... .100 .090 64 68 3.60 1 <1.0 .1 <.1 <1 FEB 16... 3.00 .400 .200 <1.0 66 70 . 4 <.1 APR 18... 1.50 <.002 .400 .100 2 <1.0 42 42 . 2 <.1 2 JUN 20... 2.75 .022 .168 .049 2 1.4 64 57 . 2 <.1 2 AUG 15... 2.85 <.020 .526 .053 6 1.8 70 69 .6 <.1 7 MANGA-CHRO-COPPER, IRON, LEAD, MANGA-MERCURY NESE, IRON, DIS-NESE, MIUM, TOTAL COPPER, TOTAL TOTAL LEAD, TOTAL TOTAL MERCURY DIS-RECOV-DIS-RECOV RECOV-DIS-RECOV-DIS-RECOV-DIS-SOLVED ERABLE SOLVED ERABLE SOLVED ERABLE SOLVED ERABLE SOLVED ERABLE SOLVED DATE (UG/L AS CU) AS MN) (01030) (01042)(01040)(01045)(01046) (01049)(01056)(71900) (71890) (01051)(01055)OCT 21... <1.0 2 <1 1690 <10 2 <1 63 10 <.1 DEC 16... <1.0 2 1 1080 <10 1 <1 52 20 FEB 16... 2970 <10 95 19 <1.0 1 <1 APR 18... <1.0 4 <1 40 5 <1 139 4 .TITIN 20... 5 <10 3 <1 67 5 2.0 1960 <.3 <.2 AUG

07104905 MONUMENT CREEK AT BIJOU STREET, AT COLORADO SPRINGS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
OCT		0		6.0		. 1	1.5		. 01		
21	4	2	8	6.9	<1	<1	15	6	<.01		
DEC 16	5	5	11	9.7	<1	<1	10	5	<.01	83	7.2
FEB											
16	6	3	9	6.9	<1	<1	24	7	<.01	251	23
APR											
18	4	3	5	4.1	<1	<1	33	4	<.01	473	120
JUN											
20	6	4	10	7.9	<1	<1	22	4	<.01	144	11
AUG											
15	12	4	12	9.3	<1	<1	72	4	<.01	736	46

07105000 BEAR CREEK NEAR COLORADO SPRINGS, CO

LOCATION.--Lat $38^{\circ}49^{\circ}21^{\circ}$, $\log 104^{\circ}53^{\circ}17^{\circ}$, 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 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.--No estimated daily discharges. Records good. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

	-	DISCHAR	GE, CUBIC	FEET PER			AR OCTOBER	1999 TO	SEPTEMBE	R 2000	_	
DAY	OCT	NOV	DEC	JAN	FEB	MEAN VA	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3.0 3.1 3.0 3.0	2.7 2.6 2.5 2.5 2.5	2.3 2.3 2.0 2.1 2.1	2.0 2.0 1.9 1.9	1.9 1.9 1.8 1.8	1.9 1.9 1.9 1.9	2.6 2.5 2.4 2.8 3.6	3.7 3.6 3.4 3.3	2.4 2.4 2.3 2.1 2.1	1.8 1.9 1.9 1.7	1.2 1.1 1.2 1.2	1.3 1.3 1.3 1.3
6 7 8 9 10	3.0 3.7 3.9 3.7 3.5	2.5 2.5 2.5 2.6 2.5	2.4 2.3 2.2 2.1 2.2	2.0 2.0 2.0 1.9	1.8 1.8 1.8 1.8	1.9 2.0 2.0 1.9 1.8	4.4 4.4 4.1 4.2 4.3	3.4 3.3 4.2 4.0 3.7	2.1 2.0 2.0 2.0 2.0	1.8 1.8 1.6 1.6	1.6 1.6 1.4 1.3	1.3 1.3 1.3 1.3
11 12 13 14 15	3.4 3.3 3.2 3.2 3.1	2.4 2.4 2.4 2.4 2.4	2.2 2.2 2.2 2.1 2.1	1.9 1.9 1.9 1.9	1.8 1.8 1.8 1.8	1.8 1.9 1.8 1.9	4.1 4.0 4.1 4.3 4.4	3.6 3.6 3.5 3.4 3.2	2.0 1.8 2.0 2.0	1.6 1.6 1.8 1.9	1.3 1.2 1.2 1.4 1.4	1.2 1.2 1.2 1.2
16 17 18 19 20	3.2 3.2 3.2 3.3 3.3	2.3 2.3 2.3 2.3 2.3	2.1 2.1 2.1 2.0 2.0	1.9 1.9 1.9 1.9	1.8 1.8 1.7 1.7	1.7 2.2 2.2 2.0 2.2	4.1 4.0 4.2 4.3 4.1	3.2 3.2 3.2 3.2 3.2	2.0 2.1 2.1 1.8 1.8	1.9 2.0 1.8 1.7	1.5 1.5 1.7 1.5	1.2 1.2 1.2 1.2
21 22 23 24 25	3.2 3.2 3.1 3.0 3.0	2.4 2.3 2.3 2.2 2.5	2.0 2.0 2.1 2.0 2.1	1.9 1.8 1.6 1.8	1.8 1.8 1.8 1.8	2.1 2.1 2.2 2.5 2.6	4.1 4.1 4.0 3.8 3.6	3.1 2.9 2.9 3.1 3.0	1.7 1.7 1.7 1.7	1.7 1.6 1.5 1.4	1.5 1.6 1.5 1.5	1.3 1.3 1.5 1.6
26 27 28 29 30 31	3.0 2.9 2.8 2.8 2.8 2.8	2.5 2.4 2.3 2.3 2.3	2.0 2.1 2.1 2.1 2.0 2.0	1.9 1.8 1.7 1.4 1.8	1.7 1.8 1.9 1.9	2.8 2.8 2.9 2.8 2.8 2.5	3.5 3.5 3.5 3.6 3.7	2.7 2.6 2.6 2.5 2.4 2.4	2.3 2.2 2.1 2.1 2.0	1.3 1.4 1.4 1.4 1.3	1.4 1.3 1.3 1.9 1.4	1.5 1.4 1.4 1.3
TOTAL MEAN MAX MIN AC-FT					52.2 1.80 1.9 1.7 104		114.3 3.81 4.4 2.4 227	99.4 3.21 4.2 2.4 197	60.1 2.00 2.4 1.7 119	50.9 1.64 2.0 1.2 101	43.6 1.41 1.9 1.1 86	39.3 1.31 1.6 1.2 78
							BY WATER			2.06	2 20	0.21
MEAN MAX (WY) MIN (WY)	2.11 3.16 2000 .37 1993	1.77 2.41 2000 .14 1993	1.53 2.12 2000 .17 1993	1.37 1.87 2000 .30 1993	1.32 1.80 2000 .36 1993	1.49 2.15 2000 .52 1993	2.92 6.13 1999 .31 1993	9.12 22.0 1999 .87 1993	6.16 17.0 1997 .47 1993	3.26 7.55 1995 .30 1993	3.38 6.77 1999 .55 1993	2.31 4.39 1997 .30 1992
SUMMARY	STATISTI	CS	FOR 1	999 CALEN	DAR YEAR	F	OR 2000 WA	TER YEAR		WATER YE	ARS 1992	- 2000
LOWEST A HIGHEST LOWEST I ANNUAL S INSTANTA INSTANTA ANNUAL F 10 PERCE	MEAN ANNUAL ME ANNUAL ME DAILY ME DAILY MEA SEVEN-DAY ANEOUS PE	AN A					6.0	Apr 6 Aug 2 Sep 10 Oct 7 Oct 7		3.19 5.30 .41 89 .02 .05 a185 b2.80 2310 6.2 1.9	Apr (Sep (Nov Apr (Apr (1999 1993 30 1999 18 1992 7 1992 30 1999 30 1999

a From rating curve extended above 122 ft³/s.

b From floodmarks.

07105490 CHEYENNE CREEK AT EVANS AVENUE AT COLORADO SPRINGS, CO

LOCATION.--Lat $38^{\circ}47^{\circ}26^{\circ}$, Long $104^{\circ}51^{\circ}49^{\circ}$, $SW^{1}/_{4}NW^{1}/_{4}$ 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. Prior to June 13, 2000, at datum 1.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

	DISCHA	RGE, CUBI	C FEET PE				R 1999 10	SEPIEMBE	.R 2000		
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
3.5 3.7 3.2 3.1 3.1	1.2 .89 1.2 2.3 3.9	3.3 3.0 2.7 2.6 2.6	3.6 3.6 3.3 3.1 3.7	.68 .64 .71 .58	.52 .50 .53 .54	3.2 2.6 2.3 1.7 7.6	6.3 2.7 2.4 3.8 5.9	1.0 1.0 1.2 .97	.72 .78 .78 .82 .85	.69 .60 .45 .48	2.9 2.5 1.9 1.5
2.5 6.1 5.9 3.1 2.8	4.5 2.0 3.5 6.0 6.4	3.1 3.1 2.7 2.5 3.0	3.6 3.2 2.9 2.6 2.7	.58 .54 .50 .46	.54 .70 .78 .63	13 14 14 15 14	4.8 6.8 13 17 20	1.0 .96 .86 .86	.97 1.0 1.1 .95 .96	2.6 .82 .72 .59	.94 .80 1.6 1.4 .79
3.1 2.1 2.0 2.0 2.0	5.6 2.1 2.7 3.1 2.2	3.0 2.8 3.2 3.0 3.0	2.8 2.9 2.2 1.5	.43 .41 .37 .39	.66 .63 .72 .61	13 11 10 9.8 10	14 8.8 9.4 7.7 5.2	.89 .88 .85 .78	1.0 .99 .95 .95	.52 .51 .54 .61	.73 .69 .64 .64
2.8 3.6 6.2 7.4 4.2	2.0 2.1 2.3 2.3 2.4	3.1 2.9 2.9 3.2 4.1	1.5 1.5 1.5 1.4 1.3	.41 .40 .44 .43	.81 .99 1.1 1.3	9.1 8.3 8.8 9.8 9.0	6.1 5.7 3.6 5.6 5.0	.80 .88 .98 .61	.88 .99 .90 .82 .93	.70 .95 1.6 1.2	.64 .59 .63 .64
2.8	2.2 4.1 6.1 5.4 5.7	6.8 5.3 3.4 3.2 3.1	1.6 1.0 1.5 1.8	.43 .41 .46 .46	.93 1.8 2.5 1.6 1.8	7.4 6.3 6.5 6.8 6.9	3.7 3.1 2.8 3.1 3.3	.64 .69 .69 .80	.89 .82 .79 .75 .66	1.1 1.1 .94 1.1	.64 .59 .62 .70
2.3 1.5 1.6 1.5 1.4	5.5 5.2 5.0 4.6 3.9	3.1 3.1 3.9 3.6 3.6	.91 .78 .79 1.3 1.3	.75 .97 .59 .45 	2.3 2.2 1.9 1.8 1.7 2.4	6.2 6.6 6.9 6.9 7.6	2.9 3.4 2.6 2.6 1.7 1.4	1.4 3.7 4.1 3.1 1.8	.71 .87 .72 .79 .75	1.8 2.2 2.7 3.5 3.5 3.2	.64 .65 .91 .66 .72
	106.39 3.55 6.4 .89 211	102.0 3.29 6.8 2.5 202	63.05 2.03 3.7 .71 125					4.1 .61 71	26.72 .86 1.1 .66 53	39.18 1.26 3.5 .45 78	28.51 .95 2.9 .59 57
4.61 7.31 1997 .73 1993	5.56	5.15					40.4 86.4 1994 2.63 1996	30.9 93.1 1995 1.18 2000	9.70 30.5 1995 .86 2000	14.4 39.7 1999 1.26 2000	5.62 11.2 1997 .95 2000
STATIST	rics	FOR	1999 CALE	NDAR YEAR	F	OR 2000 W	ATER YEAR		WATER Y	EARS 1992	- 2000
ANNUAL M DAILY ME SEVEN-DA ANEOUS F ANEOUS F RUNOFF (ENT EXCE	MEAN MEAN EAN AY MINIMUM PEAK FLOW PEAK STAGE (AC-FT) EEDS		17.9 453 .8. 1.0			2.70 20 .3' .4' 36 2.0: 1960 6.3 1.6	May 10 7 Feb 13 1 Feb 11 Aug 6 3 Aug 6		21.8 1.40 453 .10 .23 a595 b3.53 8500 28 4.1	Apr (Apr (1995 1993 30 1999 8 1993 6 1993 10 1997 10 1997
	3.5 3.7 3.2 3.1 2.5 6.1 3.1 2.8 3.1 2.0 2.0 2.8 3.6 2.7 4.4 4.2 4.0 3.5 2.8 2.1 2.6 6.2 7.4 4.2 4.0 3.5 1.6 6.1 5.7 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	OCT NOV 3.5 1.2 3.7 .89 3.2 1.2 3.1 2.3 3.1 3.9 2.5 4.5 6.1 2.0 5.9 3.5 3.1 6.0 2.8 6.4 3.1 5.6 2.1 2.1 2.0 2.7 2.0 3.1 2.0 2.7 2.0 3.1 2.0 2.7 2.0 3.1 2.0 2.7 2.0 3.1 2.0 2.7 2.0 3.1 2.0 2.7 2.0 3.1 2.0 2.7 2.0 3.1 2.0 2.7 2.0 3.1 2.0 2.2 2.8 2.0 3.6 2.1 2.1 5.4 2.6 5.7 2.3 5.5 4.1 2.1 5.4 2.6 5.7 2.3 5.5 1.5 5.2 1.6 5.0 1.5 4.6 1.4 3.9 1.2 96.9 106.39 3.13 3.55 7.4 6.4 1.2 .89 192 211 ICS OF MONTHLY ME 4.61 4.00 7.31 5.56 1.99 1998 .73 .84 1993 1993 STATISTICS TOTAL MEAN ANNUAL MEA	OCT NOV DEC 3.5 1.2 3.3 3.7 .89 3.0 3.2 1.2 2.7 3.1 2.3 2.6 3.1 3.9 2.6 2.5 4.5 3.1 6.1 2.0 3.1 5.9 3.5 2.7 3.1 6.0 2.5 2.8 6.4 3.0 3.1 5.6 3.0 2.1 2.1 2.8 2.0 3.1 3.0 2.0 2.2 3.0 2.8 2.0 3.1 3.0 2.0 2.2 3.0 2.8 2.0 3.1 3.0 2.0 2.2 3.0 2.8 2.0 3.1 3.0 2.0 2.2 3.0 2.8 2.0 3.1 3.0 2.0 2.2 3.0 2.8 2.0 3.1 3.0 2.0 2.2 3.0 2.8 2.0 3.1 3.0 2.0 2.2 3.0 2.8 3.5 4.1 5.3 2.8 6.1 3.4 2.1 5.4 3.2 2.6 5.7 3.1 2.3 5.5 3.1 1.5 5.2 3.1 1.5 5.2 3.1 1.5 5.2 3.1 1.6 5.0 3.1 1.5 5.2 3.1 1.5 5.2 3.1 1.5 5.2 3.1 1.5 5.2 3.1 1.5 5.2 3.1 1.5 5.2 3.1 1.5 5.2 3.1 2.3 5.5 5.1 2.3 5.5 5.1 2.3	OCT NOV DEC JAN 3.5 1.2 3.3 3.6 3.7 .89 3.0 3.6 3.2 1.2 2.7 3.3 3.1 2.3 2.6 3.1 3.1 3.9 2.6 3.7 2.5 4.5 3.1 3.6 6.1 2.0 3.1 3.2 5.9 3.5 2.7 2.9 3.1 6.0 2.5 2.6 2.8 6.4 3.0 2.7 3.1 5.6 3.0 2.8 2.1 2.1 2.8 2.9 2.0 2.7 3.2 2.2 2.0 3.1 3.0 1.5 2.0 2.2 3.0 1.6 2.8 2.0 3.1 3.0 1.5 2.0 2.2 3.0 1.6 2.8 2.0 3.1 3.0 1.5 2.0 2.2 3.0 1.6 2.8 2.0 3.1 3.0 1.5 2.0 2.2 3.0 1.6 2.8 2.0 3.1 3.0 1.5 2.0 2.2 3.0 1.6 2.8 2.0 3.1 3.0 1.5 2.0 2.2 3.0 1.6 2.8 2.0 3.1 3.0 1.5 2.0 2.1 2.9 1.5 4.2 2.4 4.1 1.3 4.0 2.2 6.8 1.6 3.5 4.1 5.3 1.0 2.8 6.1 3.4 1.5 2.1 5.4 3.2 1.8 2.6 5.7 3.1 86 2.3 5.5 3.1 .78 1.6 5.0 3.1 .79 1.5 5.2 3.1 .78 1.6 5.0 3.1 .79 1.5 4.6 3.9 1.3 1.4 3.9 3.6 1.3 1.7 9 1.5 5.2 3.1 1.78 1.5 5.2 3.1 1.78 1.6 5.0 3.1 1.79 1.5 5.2 3.1 1.79 1.5 5.2 3.1 1.79 1.5 5.2 3.1 1.79 1.5 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.99 8.3 3.1 3.9 2.6 3.1 5.8 .54 7.6 5.9 .99 .85 3.1 3.9 2.6 3.7 .58 .54 7.6 5.9 .99 .85 2.5 4.5 3.1 3.6 .58 .54 .70 14 6.8 .96 1.0 5.9 3.5 2.7 2.9 .50 .78 14 13 4.8 1.0 .97 6.1 2.0 3.1 3.2 .54 .70 14 6.8 .96 1.0 3.1 6.0 2.5 2.6 4.6 6.3 15 17 .86 .95 3.1 5.6 3.0 2.7 48 .62 14 20 .90 .96 3.1 5.6 3.0 2.7 48 .62 14 20 .90 .96 3.1 5.6 3.0 2.8 4.3 .66 13 11 8.8 .88 .99 2.0 2.7 3.2 2.2 3.0 1.6 .43 .58 11 8.8 8.8 .99 2.0 2.7 3.2 2.2 2.3 7 .72 10 9.4 88 .99 2.0 2.7 3.2 2.2 2.3 7 .72 10 9.4 88 .99 2.0 2.7 3.1 3.0 1.5 .39 .61 9.8 7.7 .78 .95 2.0 2.2 3.0 1.6 .43 .58 10 5.2 .88 .88 2.8 2.0 3.1 3.5 1.5 .41 .81 9.1 6.1 8.8 .88 2.8 2.0 3.1 3.2 1.4 8.8 .99 6.2 2.3 2.9 1.5 .40 .99 8.3 5.7 .88 .99 6.2 2.3 2.9 1.5 .40 .99 8.3 5.7 .88 .99 6.2 2.3 3.2 1.4 4.1 3 8.8 3.6 .98 .90 6.2 2.3 3.2 1.4 4.1 3.8 6.9 .90 6.2 2.3 3.2 1.4 4.1 3 9.8 6.9 .90 6.2 2.3 3.2 1.4 4.1 1.8 8.8 3.6 .98 .90 6.2 2.3 3.2 1.5 4.4 1.1 8.8 3.8 3.6 .98 .90 6.2 2.3 3.2 1.5 4.4 1.1 8.8 3.8 3.6 .98 .90 6.2 2.3 3.2 1.4 4.1 3.4 3.1 9.1 6.1 8.0 88 3.5 4.1 5.3 1.5 4.4 1.1 8.8 6.3 3.1 6.9 8.9 .90 6.2 2.3 3.2 1.4 4.1 1.3 4.3 1.1 9.0 5.0 6.3 .93 6.2 1.5 4.1 5.3 1.0 4.1 1.8 6.3 3.1 8.8 3.6 .98 .90 2.1 5.4 1.5 5.4 1.8 6.9 2.6 6.3 3.1 8.8 9.9 2.1 5.4 1.5 5.4 1.8 6.9 2.6 6.3 3.1 8.8 9.9 2.2 2.5 2.5 5.5 3.1 .91 7.7 2.2 2.2 6.6 9.3 3.1 8.8 3.6 9.9 2.1 5.4 3.2 1.8 4.4 1.1 8.8 6.3 3.1 8.0 7.5 2.8 6.1 3.4 1.5 5.4 1.8 1.8 6.9 2.6 6.3 3.1 8.8 9.9 2.1 5.4 3.2 1.8 4.4 1.1 8.8 6.3 3.1 8.9 9.9 2.1 5.4 4.2 2.4 4.1 1.3 4.3 1.1 9.0 5.0 6.3 9.3 3.5 5.4 1.5 5.4 1.8 6.9 2.6 6.3 3.1 9.9 3.5 5.4 1.5 5.4 1.8 6.9 2.6 6.3 3.1 9.9 3.5 5.5 3.1 9.9 1.5 4.4 1.8 1.8 6.9 3.1 1.8 8.9 9.9 3.5 5.4 1.5 5.4 1.8 4.9 9.9 9.9 1.9 9.	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG 3.5 1.2 3.3 3.6 6.68 5.2 3.2 6.3 1.0 72 72 6.9 3.7 1.99 3.0 3.6 6.64 5.0 2.6 2.7 1.0 7.8 60 3.2 1.2 2.7 3.3 7.1 5.5 2.3 2.4 1.2 78 60 3.1 2.3 2.6 3.1 5.8 5.4 7.6 5.9 9.9 8.5 5.4 3.1 2.3 2.6 3.1 5.8 5.4 7.6 5.9 9.9 8.5 5.4 3.1 3.9 2.6 3.1 3.6 5.8 5.4 7.6 5.9 9.9 8.5 5.4 2.5 4.5 3.1 3.6 5.8 5.4 7.6 5.9 9.9 8.5 5.4 2.5 4.5 3.1 3.6 5.8 5.4 7.6 5.9 9.9 8.5 5.4 2.5 4.5 3.1 3.6 5.8 5.4 7.6 5.9 9.9 8.5 5.4 2.5 4.5 3.1 3.6 5.8 5.4 7.6 5.9 9.9 8.5 5.4 2.5 4.5 3.1 3.6 5.5 8 5.4 7.6 5.9 9.9 8.5 5.4 2.5 4.5 3.1 3.6 5.5 8 5.4 7.6 5.9 9.9 8.5 5.4 2.5 4.5 3.1 3.6 5.5 8 5.4 7.6 5.9 9.9 8.5 5.4 2.5 4.5 4.5 3.1 3.6 5.5 8 5.4 7.6 6.9 9.9 8.5 5.4 2.5 4.5 3.1 3.6 5.5 8 5.4 7.6 1.3 4.8 1.0 9.9 9.6 5.4 2.5 4.5 3.1 3.6 5.5 8 5.4 7.6 1.3 4.8 1.0 9.9 9.6 5.5 2.8 6.4 3.0 2.7 4.8 6.2 14 20 9.9 9.9 6.55 2.8 6.4 3.0 2.7 4.8 6.6 1.3 14 6.8 1.9 9.9 9.6 5.4 3.1 5.6 3.0 2.8 4.3 6.6 13 14 8.8 8.8 9.9 9.5 5.4 2.1 2.1 2.1 2.1 2.8 2.9 4.1 6.3 11 8.8 8.8 8.9 9.9 1.4 2.0 2.7 3.0 1.6 4.3 5.9 6.1 8.9 7.7 1.1 8.8 9.7 7.7 1.5 9.5 1.4 2.0 2.1 3.0 1.6 4.3 5.8 10 5.2 8.2 8.8 6.8 2.8 2.0 3.1 1.5 5.4 1 8.1 9.1 6.1 8.8 9.9 9.5 6.2 2.3 2.9 1.5 4.4 1.1 8.1 9.1 6.1 8.8 9.9 9.5 6.2 2.3 3.2 9.1 5.4 4.4 1.1 8.8 3.6 9.9 9.5 6.2 2.3 3.2 9.1 5.4 4.4 1.1 8.8 8.3 6.9 9.9 1.4 4.0 2.2 6.8 1.6 4.3 1.9 9.9 8.3 5.7 8.8 9.9 9.5 6.2 2.3 3.2 1.4 4.1 1.3 4.3 1.1 9.0 5.0 6.3 9.9 1.1 3.5 4.1 5.3 1.0 4.1 1.8 8.6 3.3 1.0 6.9 8.2 1.1 2.8 6.1 3.4 1.5 5.3 1.0 4.1 1.8 8.8 8.9 9.9 9.5 6.2 2.3 3.2 1.4 4.4 1.1 8.8 6.3 3.1 6.9 8.9 1.0 2.8 6.1 3.4 1.5 5.3 1.0 4.1 1.8 8.8 3.6 9.9 9.0 1.6 4.0 2.2 6.8 1.6 8.1 6.4 3.9 9.9 1.7 9.5 1.1 3.5 4.1 5.3 1.0 4.1 1.8 8.8 9.9 9.0 1.6 6.2 2.3 3.2 1.8 4.46 1.6 6.8 3.1 1.8 8.9 9.9 9.5 6.2 2.3 3.2 1.8 4.4 1.1 1.8 8.8 3.6 9.9 9.0 1.6 6.2 2.3 3.1 1.0 4.1 1.8 8.8 9.9 9.0 1.0 9.0 9.0 1.0 9.0 9.0 1.0 9.0 9.0 1.0 9.0 9.0 1.0 9.0 9.0 1.0 9.0 9.0 1.0 9.0 9.0 1.0 9.0 9.0 1.0 9.0 9.0 1.0 9.0 9.0 1.0 9.0 9.0 1.0 9.0 9.0 1.0 9.0 9.0 9.0 9.0 1.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9

a $\,$ From rating curve extended above 437 $\rm ft^3/s.$ b $\,$ At different datum.

07105500 FOUNTAIN CREEK AT COLORADO SPRINGS, CO

LOCATION.--Lat 38°48'59", long $104^\circ49^\circ20$ ", in $\mathrm{NE}^1/_4\mathrm{SW}^1/_4$ 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

REMARKS.--No estimated daily discharges. Records fair except for 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		DIDCHIL	OL, CODIC		DAILY	MEAN VA		1000 10 1	JEI IENE	2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	85 87 87 88 91	78 73 75 77 75	63 61 73 70 63	66 74 63 62 74	73 79 70 61 59	47 49 48 50 51	85 87 88 88 103	127 116 119 113 104	60 68 62 56 55	42 44 65 38 33	25 26 29 39 42	78 54 50 46 35
6 7 8 9	91 140 117 103 92	75 72 74 75 74	69 68 66 64 68	61 56 66 62 75	59 58 59 59 57	53 82 90 47 45	115 125 127 129 134	97 95 421 201 166	53 45 41 42 39	31 30 31 32 34	55 34 26 23 23	38 35 29 31 27
11 12 13 14 15	89 86 83 87 86	73 70 71 70 70	65 62 63 63 57	73 65 63 70 66	54 55 53 52 53	47 51 49 48 58	132 132 134 140 147	151 136 127 119 106	41 41 40 41 35	36 41 37 36 52	29 28 25 30 29	24 23 33 25 25
16 17 18 19 20	109 94 98 108 87	72 68 61 58 61	70 67 66 64 64	69 69 69 67 65	55 57 73 60 56	136 95 82 57 64	134 129 132 137 128	89 123 129 122 114	34 60 62 52 38	56 200 53 41 44	25 52 72 40 34	27 22 24 23 22
21 22 23 24 25	84 84 91 91 85	67 109 77 68 72	62 60 64 64 64	66 64 62 66 68	55 56 57 52 53	64 80 69 63 60	129 127 136 134 125	97 80 73 107 113	33 31 30 38 37	40 36 34 32 31	107 64 65 46 108	33 47 68 78 47
26 27 28 29 30 31	83 82 78 79 78 77	98 75 67 66 64	63 62 63 62 62	83 89 80 63 68 66	48 49 47 56 	58 61 59 62 72 109	121 120 122 125 148	97 77 66 62 59 63	245 108 66 62 49	30 28 39 39 31 28	118 58 136 197 71 58	39 36 33 32 32
TOTAL MEAN MAX MIN AC-FT	2820 91.0 140 77 5590	2185 72.8 109 58 4330	1995 64.4 73 57 3960	2110 68.1 89 56 4190	1675 57.8 79 47 3320	2006 64.7 136 45 3980	3713 124 148 85 7360	3669 118 421 59 7280	1664 55.5 245 30 3300	1344 43.4 200 28 2670	1714 55.3 197 23 3400	1116 37.2 78 22 2210
MEAN MAX (WY) MIN (WY)	48.1 212 1985 10.6 1978	41.7 143 1985 11.4 1979	33.6 81.3 1985 11.8 1979	30.6 68.1 2000 5.12 1979	28.7 57.8 2000 6.27 1979	- 2000, 40.3 92.6 1998 11.4 1976	94.9 486 1999 14.8 1978	YEAR (WY) 208 944 1999 23.5 1976	136 555 1997 16.3 1976	79.2 268 1995 12.9 1976	91.3 341 1999 20.9 1993	48.6 116 1999 7.98 1978
SUMMARY	STATISTI	CS	FOR 1	.999 CALE	NDAR YEAR	F	OR 2000 WA	TER YEAR		WATER YEA	ARS 1976	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT ANNUAL 10 PERC 50 PERC		AN AN AN AN AN MINIMUM AK FLOW AK STAGE C-FT) DS		84631 232 7510 27 29 167900 585 87 37	Apr 30 Mar 24 Mar 21		26011 71.1 421 22 24 1500 5.03 51590 122 64 32	May 8 Sep 17 Sep 14 Jul 17 Jul 17		75.6 228 23.2 7510 2.0 3.3 a10100 b12.12 54740 155 36 15	Aug 1 Jan Sep	1999 1978 80 1999 19 1978 3 1979 2 1994 2 1994

a $\mbox{From slope-area measurement of peak flow.}$ b $\mbox{From floodmark.}$

07105500 FOUNTAIN CREEK AT COLORADO SPRINGS, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1975 to current year.

PERIOD OF DAILY RECORD.--SUSPENDED SEDIMENT: August 1995 to September 1997 (seasonal peaks only), April 1998 to current year (seasonal records only).

INSTRUMENTATION. -- Pumping sediment sampler since August 1995.

REMARKS.--Records for daily sediment are fair.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

EXTREMES FOR PERIOD OF RECORD.-SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 8,640 mg/L, Apr. 29, 1999; minimum daily mean, 12 mg/L,

Sept. 8, 1998.
SEDIMENT LOAD (seasonal only): Maximum daily, 275,000 tons (estimated), Apr. 30, 1999; minimum daily, 1.9 tons, Sept. 8, 1998.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 6,440 mg/L, June 26; minimum daily mean, 41 mg/L, June 8. SEDIMENT LOAD (seasonal only): Maximum daily, 7,820 tons, May 8; minimum daily, 3.4 tons (estimated), Sept. 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

				WATER-	-QUALITY D	ATA, WATI	ER YEAR OO	CTOBER 199	99 TO SEPT	TEMBER 200	00		
D₽	ATE	TIME	DIS- CHARGE INST. CUBIC FEET PER SECON (00061	C, SPE- CIFIC CON- DUCT- ANCE DU (US/CN	FIELD - (STAND ARD 1) UNITS	TEMPER - ATURI WATER	E DIS- R SOLVE C) (MG/I	- ICAL, ED 5 DAY L) (MG/I), FORM, FECAI - 0.7 UM-ME (COLS.	CALCIU DIS- SOLVE (MG/I AS CA	DIS- ED SOLVI L (MG/I A) AS MO	M, SULFA' - DIS- ED SOLVI L (MG/I G) AS SO	DIS- ED SOLVED L (MG/L 4) AS F)
OCT													
DEC		1245		492	7.9	9.0	10.0	<1.0	240	54.7	12.9	94.	
14 FEE	ł 3	1115	57	593	8.3	.5	11.3	<1.0	25	69.0	15.5	120	2.1
15 APF	5	1300	53	688	8.3	9.5	9.6	<1.0	34	76.9	17.9	160	1.7
	3	1200	133	346	8.2	12.5	8.8	<1.0	120	36.0	7.70	0 64.	0 2.4
20)	1230	42	755	8.3	22.5	7.4	1.3	900	85.0	18.2	170	1.6
AUG 15		0745	31	721	8.2	18.0	7.3	1.6	E40	79.6	16.7	160	1.3
	DAT	E	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	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)
	OCT 19		1.70	<.020	.200	.030	1	<1.0	57	58	.1	<.1	3
	14		2.20	<.020	.100	.030	1	<1.0	69	71	.1	<.1	<1
	FEB 15		3.00	.040	.300	.100	3	<1.0	83	79	. 4	<.1	2
	APR 18		1.00	.004	.300	.070	2	<1.0	43	42	.2	<.1	2
	JUN 20		2.86	<.020	.170	.044	2	2.0	84	79	.3	<.1	
	AUG 15		2.55	<.020	.144	.043	3	2.0	87	83	.3	<.1	2
	DAT		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)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)
	OCT 19		1.3	4	1	2780	<10	3	<1	107	38		<.1
	DEC 14		<1.0	2	1	1060	<10	2	<1	88	47	<.3	<.2
	FEB 15		<1.0	6	2	3250	<10	4	<1	128	49	<.1	<.1
	APR 18		<1.0	4	<1		20	6	<1	124	13		<.1
	JUN 20			8	3	2340	<10	4	<1	96	20	<.3	E.1
	AUG 15		1.0	6	3	2250	<10	5	<1	99	11	<.3	<.2

07105500 FOUNTAIN CREEK AT COLORADO SPRINGS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
OCT 19	5	<2	4	3.6	<1	<1	26	8	<.01		
DEC	4	4	7				14	7		140	
14 FEB				6.5	<1	<1			<.01	140	22
15 APR	6	3	9	7.0	<1	<1	30	6	<.01	228	33
18 JUN	3	2	4	3.1	<1	<1	24	3	<.01	309	111
20 AUG	6	4	10	10.1	<1	<1	30	7	<.01	180	20
15	6	4	10	8.5	<1	<1	<3	7	<.01	207	17
	WATER-QU	ALITY DAT	A DURING	24-HOUR S	SAMPLING,	WATER YEA	R OCTOBER	1999 TO	SEPTEMBER	2000	
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
FEB 28 28 28 29 JUL	0510 1100 1700 2400 0500	49 47 45 47 68	659 666 701 693 850	 8.4 8.0 8.1	1.5 6.0 9.8 5.0 3.5	12.2 11.3 9.2 10.3 10.9	1.0 <1.0 <1.0 <1.0 >9.2	4.10 3.00 3.00 3.10 2.90	.004 .011 .020 .016	.300 .190 .310 .560	.100 .100 .100 .100
19 19 19 20	0500 1100 1700 2400 0530	44 44 42 35 42	597 620 622 688 681	8.3 8.4 8.3 8.4	16.7 20.2 24.5 19.0 17.0	7.5 7.3 6.5 7.1 7.4	<1.0 <1.0 1.7 <1.0 <1.0	1.87 2.03 2.07 2.30 2.40	<.020 <.020 <.020 <.020 <.020	.192 .199 .163 .058	.048 .046 .046 .083 .067
WATE	ER-QUALITY	DATA DUR	ING STORM	WATER-RUN	IOFF SAMPL	ING, WATE	R YEAR OC	TOBER 199	9 TO SEPT	EMBER 200	0
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
MAY 08	1100	583	242	8.1	11.0	8.9	11	2000	25.4	4.36	36.0
JUN 26	1030	133	333	8.1	15.0	7.7	6.1	3200	36.2	6.86	63.0
JUL 17	1730	885	272	8.3	20.5	7.0	8.2	>3000	31.0	5.16	51.0
AUG 21	1930	482	239	8.3	19.0		<8.9	27000	26.4	4.56	44.0
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	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)
MAY 08	.6	.802	.200	3.59	.045	14	<1.0	46	29	1.9	<.1
JUN 26	.9	1.12	.047	.735	.044	6	1.1	45	40	.6	<.1
JUL 17	.6	1.19	.157	5.69	.030	25	1.6	33	58	4.9	<.1
AUG 21	.5	1.10	.217	3.65	.038	22	1.7	56	36	3.3	<.1

07105500 FOUNTAIN CREEK AT COLORADO SPRINGS, CO--Continued

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)		MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)
MAY 08	22	1.2	56	1	36700	60	99	<1	1610	22	E.2
JUN 26	7	1.6	19	4	11200	40	20	<1	419	7	<.3
JUL 17	39	<1.0	110	1	70000	10	216	<1	2870	11	. 4
AUG 21	32	<1.0	81	3	46000	60	180	<1	1870	8	<.3
DATE	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	(UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
MAY 08	<.2	39	2	9	1.9	<1	<1	324	4	<.01	
JUN 26	<.2	12	2	6	3.9	<1	<1	87	3	<.01	1460
JUL 17	<.2	78	2	16	4.0	<1	<1	679	<3	<.01	
AUG 21	<.2	48	2	8	2.1		<1	635	7	<.01	5400
DATE	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	ACE- NAPHTH- YLENE TOTAL (UG/L) (34200)	ACE- NAPHTH- ENE TOTAL (UG/L) (34205)	ANTHRA- CENE TOTAL (UG/L) (34220)	BENZ(A) ANTHRA- CENE WATER UNFLITED REC (UG/L) (34526)	BENZO B FLUOR- AN- THENE TOTAL (UG/L) (34230)	BENZO- A- PYRENE TOTAL (UG/L) (34247)	PERY-	BENZO K FLUOR- AN- THENE TOTAL (UG/L) (34242)	CHRY- SENE TOTAL (UG/L) (34320)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (UG/L) (34556)
MAY 08		<2	<2	<2	<2	<3	<3	<3	<3	<3	<3
JUN 26	524	<2	<2	<2	<2	<3	<3	<3	<3	<3	<3
JUL 17	==	<2	<2	<2	<2	<3	<3	<3	<3	3	<3
AUG 21	7030	<2	<2	<2	3	4	4	<3	4	5	<3
DATE	FLUOR- ANTHENE TOTAL (UG/L) (34376)	FLUOR- ENE TOTAL (UG/L) (34381)	INDENO (1,2,3- CD) PYRENE TOTAL (UG/L) (34403	NAPHTI ALENI TOTA (UG/L	E THR L TOT) (UG/	ENE PYR AL TO L) (UG	A W ENE TAL G	,6-DI- ETHYL NILINE AT FLT 0.7 U F, REC UG/L) 82660)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)
08 JUN	<2	<2	<3	<2	<2	<	2	<.003	<.002	<.002	.019
26 JUL	<2	<2	<3	<2	<2	<	2	<.003	<.002	<.002	.023
17 AUG	4	<2	<3	<2	3		3	<.003	<.002	<.002	.006
21	8	<2	<3	<2	3		7	<.003	<.002	<.002	.096
DATE	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)
MAY	. 001	. 000	- 000	- 000	. 010	- 004	- 004	- 000	- 000	150	- 001
08 JUN 26	<.001	<.002	<.002	<.003	<.010	<.004	<.004	<.002	<.002	.150	<.001
26 JUL	<.001	<.002	<.002	<.003	<.010	<.004	<.004	<.002	<.008	.142	<.001
17 AUG	<.001	<.002	<.002	<.003	<.003	<.004	.012	<.002	<.002	.140	<.001
21	<.001	<.006	<.002	<.003	<.003	<.040	<.020	<.002	<.007	.174	<.001

arkansas river basin 261

07105500 FOUNTAIN CREEK AT COLORADO SPRINGS, CO--Continued

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DISUL- FOTON WATER FLITRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLITRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L)	(UG/L)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)
MAY 08	<.017	<.002	<.004	<.003	<.003	<.004	<.002	.043	.009	<.004	<.004
JUN 26	<.017	<.002	<.004	<.003	<.003	<.004	<.002	.072	.007	<.004	<.004
JUL 17	<.017	<.002	<.004	<.003	<.003	<.004	<.002	.036	<.002	<.004	<.004
AUG 21	<.017	<.002	<.004	<.003	<.003	<.004	<.002	.079	<.002	<.004	<.004
DATE	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PARA- THION, DIS- SOLVED (UG/L) (39542)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	METON, WATER, DISS, REC (UG/L)	WATER, DISS, REC (UG/L)	PRO- PANIL WATER FLITRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRON- AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82676)
MAY 08	<.003	<.004	<.006	<.004	.023	<.002	.044	<.007	<.004	<.013	<.003
JUN 26	<.003	<.004	<.006	<.004	<.010	<.002	.023	<.007	<.004	<.013	<.003
JUL 17	<.003	<.004	<.006	<.004	<.004	<.002	.057	<.007	<.004	<.013	<.003
AUG 21	<.003	<.004	<.006	<.004	<.020	<.002	.049	<.007	<.004	<.070	<.003
DA MAY 08 JUN	WA DI TE RE (UG (04	:- THI ZINE, WA ATER, FI ESS, 0. CG GF, G/L) (UG	TURON BA TER WA TRD FI 7 U 0. REC GF, G/L) (UG 2670) (82	CIL BU TER WA TRD FL 7 U 0. REC GF, (/L) (UG	FOS BEN TER WA TRD FI 7 U 0. REC GF, (/L) (UC) 675) (82	ICARB LATER WATER WATER WATER F. T U O C C C C C C C C C	ATE F VATER A LITED WA 0.7 U 0 7, REC GF GG/L) (U 32678) (8	T FLT B .7 U D , REC SOL G/L) (UG 2661) (34	METH APHA CI SHC WAT SIS- 0.' VED GF, S/L) (UG, (253) (826)	IS FLT P,F 7 U DI REC DISS /L) (UG/	DE SOLV (L) 553)
26 JUL										005 <.0	
17 AUG										005 <.0	
21	. <.	020 <.	020 <.	020 <.	013 <.	.002 <	.001	.014 <.	002 <.0	005 <.0	106
DATE	MIS TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C)	TS, WATEF	R YEAR OC	TOBER 199 DATE	9 TO SEPTE	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 01 NOV	1100	89	588	9.5		M	MAY 01 10	1355 1520	123 162	410 415	13.0 17.0
02 DEC	1200	71	640	6.5		J	UN 07	1235	45	630	23.5
15 JAN	1430	55	698	1.5		J	UL 06	1340	32	749	27.5
06 FEB	1445	57	725	1.5		A	26 UG	1520	32	805	22.5
03 MAR	1310	68	670	5.0			10 23	1230 1015	30 52	895 593	24.5 17.5
01 APR	1515	46	679	9.5		S	29 SEP	1345	114	418	22.5
06	1350	119	495	14.5			15	1445	26	830	24.0

07105500 FOUNTAIN CREEK AT COLORADO SPRINGS, CO--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDED (MG/L) (80154)		
OCT						
01 NOV	1100	89	9.5	125	30	
02 DEC	1200	71	6.5	569	109	
14	1115	57	.5	140	22	
06 FEB	1445	57	1.5	305	47	
15 APR	1300	53	9.5	228	33	
06	1415	116	14.5	361	113	
18	1200	133	12.5	309	111	
25 MAY	1315	125	13.5	350	118	
10	1545	162	17.0	405	177	
24 JUN	0915	76	15.0	276	57	
07	1235	45	23.5	39	4.7	
20	1230	42	22.5	180	20	
26 JUL	1030	133	15.0	1460	524	
06	1315	33	27.5	57	5.1	
17	1740	956	20.5	12100	31200	76
AUG						
15	0745	31	18.0	207	17	
21	1930	482	19.0	5400	7030	
23	1015	52	17.5	290	41	
29 SEP	1400	114	22.5	719	221	
15	1445	26	24.0	78	5.5	

		MEAN			MEAN			MEAN	
	MEAN	CONCEN-	SEDIMENT	MEAN	CONCEN-	SEDIMENT	MEAN	CONCEN-	SEDIMENT
	DISCHARGE	TRATION	DISCHARGE	DISCHARGE	TRATION	DISCHARGE	DISCHARGE	TRATION	DISCHARGE
DAY	(CFS)	(MG/L)	(TONS/DAY)	(CFS)	(MG/L)	(TONS/DAY)	(CFS)	(MG/L)	(TONS/DAY)
		OCTOBER			NOVEMBER		Dì	ECEMBER	
1	85	145	33	78			63		
2	87	99	23	73			61		
3	87	90	21	75			73		
4	88	89	21	77			70		
5	91		e23	75			63		
_									
6	91		e26	75			69		
7	140	754	481	72			68		
8	117	262	86	74			66		
9	103	165	46	75			64		
10	92		e32	74			68		
10	72		652	, 1			00		
11	89	109	26	73			65		
12	86	139	32	70			62		
13	83	242	54	71			63		
14	87	188	44	70			63		
15	86		e36	70			57		
13	00		630	70			31		
16	109	350	122	72			70		
17	94	297	75	68			67		
18	98		e48	61			66		
19	108	310	92	58			64		
20	87		e54	61			64		
20	07		634	01			04		
21	84	176	40	67			62		
22	84	134	30	109			60		
23	91	154	38	77			64		
24	91	156	38	68			64		
25	85		e35	72			64		
25	03		635	12			04		
26	83	160	36	98			63		
27	82	190	42	75			63		
28	78		e48	67			62		
29	79 79		e59	66			63		
30	78		e69	64			62		
31	76 77		e82				62		
31	//		602				02		
TOTAL	2820		1892	2185		0	1995		0
IOIAL	2020		1072	2103		0	1773		U

07105500 FOUNTAIN CREEK AT COLORADO SPRINGS, CO--Continued

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)
		JANUARY		I	FEBRUARY			MARCH	
1	66			73			47		
2	74			79			49		
3	63			70			48		
4 5	62 74			61 59			50 51		
6	61			59			53		
7 8	56 66			58 59			82 90		
9	62			59			47		
10	75			57			45		
11	73			54			47		
12	65			55			51		
13	63			53			49		
14 15	70 66			52 53			48 58		
16	69			55			136		
17 18	69 69			57 73			95 82		
19	67			60			57		
20	65			56			64		
21	66			55			64		
22	64			56			80		
23	62			57			69		
24 25	66 68			52 53			63 60		
23									
26 27	83 89			48 49			58 61		
28	89			49			59		
29	63			56			62		
30	68 66						72		
31	66						109		
TOTAL	2110		0	1675		0	2006		0
DAY	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)
DAY	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE
	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4	DISCHARGE (CFS) 85 87 88 88	CONCENTRATION (MG/L) APRIL 428	DISCHARGE (TONS/DAY) e83 e90 e96 102	DISCHARGE (CFS) 127 116 119 113	CONCEN- TRATION (MG/L) MAY 1230 1220 1810	DISCHARGE (TONS/DAY) 422 384 e469 550	DISCHARGE (CFS) 60 68 62 56	CONCENTRATION (MG/L) JUNE 126 73 50	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5
1 2 3	DISCHARGE (CFS) 85 87 88	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY) e83 e90 e96	DISCHARGE (CFS) 127 116 119	CONCENTRATION (MG/L) MAY 1230 1220	DISCHARGE (TONS/DAY) 422 384 e469	DISCHARGE (CFS) 60 68 62	CONCENTRATION (MG/L) JUNE 126 73 50	DISCHARGE (TONS/DAY) 20 13 8.3
1 2 3 4 5	DISCHARGE (CFS) 85 87 88 88	CONCENTRATION (MG/L) APRIL 428	DISCHARGE (TONS/DAY) e83 e90 e96 102	DISCHARGE (CFS) 127 116 119 113 104	CONCEN- TRATION (MG/L) MAY 1230 1220 1810	DISCHARGE (TONS/DAY) 422 384 e469 550	DISCHARGE (CFS) 60 68 62 56 55	CONCENTRATION (MG/L) JUNE 126 73 50	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5
1 2 3 4 5	DISCHARGE (CFS) 85 87 88 88 103 115 125	CONCENTRATION (MG/L) APRIL 428 342 405	DISCHARGE (TONS/DAY) e83 e90 e96 102 e101 107 137	DISCHARGE (CFS) 127 116 119 113 104 97 95	CONCEN- TRATION (MG/L) MAY 1230 1220 1810 2940	DISCHARGE (TONS/DAY) 422 384 e469 550 e719 772 e550	DISCHARGE (CFS) 60 68 62 56 55 53 45	CONCEN- TRATION (MG/L) JUNE 126 73 50 55 51 50	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5 8.2 7.4 6.0
1 2 3 4 5	DISCHARGE (CFS) 85 87 88 88 103 115 125 127	CONCEN- TRATION (MG/L) APRIL 428 428 342 405 536	DISCHARGE (TONS/DAY) e83 e90 e96 102 e101 107 137 183	DISCHARGE (CFS) 127 116 119 113 104 97 95 421	CONCEN- TRATION (MG/L) MAY 1230 1220 1810 2940 5170	DISCHARGE (TONS/DAY) 422 384 e469 550 e719 772 e550 7820	DISCHARGE (CFS) 60 68 62 56 55 53 45	CONCENTRATION (MG/L) JUNE 126 73 50 55 51	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5 8.2 7.4 6.0 4.5
1 2 3 4 5	DISCHARGE (CFS) 85 87 88 88 103 115 125	CONCENTRATION (MG/L) APRIL 428 342 405	DISCHARGE (TONS/DAY) e83 e90 e96 102 e101 107 137	DISCHARGE (CFS) 127 116 119 113 104 97 95	CONCEN- TRATION (MG/L) MAY 1230 1220 1810 2940	DISCHARGE (TONS/DAY) 422 384 e469 550 e719 772 e550	DISCHARGE (CFS) 60 68 62 56 55 53 45	CONCEN- TRATION (MG/L) JUNE 126 73 50 55 51 50 41	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5 8.2 7.4 6.0
1 2 3 4 5 6 7 8 9	DISCHARGE (CFS) 85 87 88 88 103 115 125 127 129 134	CONCEN- TRATION (MG/L) APRIL 428 428 342 405 536 380	DISCHARGE (TONS/DAY) e83 e90 e96 102 e101 107 137 183 133 e95	DISCHARGE (CFS) 127 116 119 113 104 97 95 421 201 166	CONCEN- TRATION (MG/L) MAY 1230 1220 1810 2940 5170 864 385	DISCHARGE (TONS/DAY) 422 384 e469 550 e719 772 e550 7820 517 172	DISCHARGE (CFS) 60 68 62 56 55 53 45 41 42 39	CONCEN- TRATION (MG/L) JUNE 126 73 50 55 51 50 41 99	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5 8.2 7.4 6.0 4.5 e11 11
1 2 3 4 5 6 7 8	DISCHARGE (CFS) 85 87 88 88 103 115 125 127 129	CONCEN- TRATION (MG/L) APRIL 428 428 342 405 536 380 226	DISCHARGE (TONS/DAY) e83 e90 e96 102 e101 107 137 183 133 e95	DISCHARGE (CFS) 127 116 119 113 104 97 95 421 201	CONCEN- TRATION (MG/L) MAY 1230 1220 1810 2940 5170 864	DISCHARGE (TONS/DAY) 422 384 e469 550 e719 772 e550 7820 517	DISCHARGE (CFS) 60 68 62 56 55 53 45 41 42	CONCENTRATION (MG/L) JUNE 126 73 50 55 51 50 41 99	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5 8.2 7.4 6.0 4.5 e11 11
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS) 85 87 88 88 103 115 125 127 129 134	CONCEN- TRATION (MG/L) APRIL 428 428 342 405 536 380 226 259 398	DISCHARGE (TONS/DAY) e83 e90 e96 102 e101 107 137 183 133 e95 81 93 144	DISCHARGE (CFS) 127 116 119 113 104 97 95 421 201 166 151 136 127	CONCEN- TRATION (MG/L) MAY 1230 1220 1810 1810 5170 864 385 287 216	DISCHARGE (TONS/DAY) 422 384 e469 550 e719 772 e550 7820 517 172 117 79 e70	DISCHARGE (CFS) 60 68 62 56 55 53 45 41 42 39 41 41 40	CONCEN- TRATION (MG/L) JUNE 126 73 50 55 51 41 99 81 94 90	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5 8.2 7.4 6.0 4.5 e11 11 9.0 10 9.7
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS) 85 87 88 88 103 115 125 127 129 134 132 134 140	CONCEN- TRATION (MG/L) APRIL 428 428 242 405 536 380 226 259 398 377	DISCHARGE (TONS/DAY) e83 e90 e96 102 e101 107 137 183 133 e95 81 93 144 142	DISCHARGE (CFS) 127 116 119 113 104 97 95 421 201 166 151 136 127 119	CONCEN- TRATION (MG/L) MAY 1230 1220 1810 5170 864 385 287 216 195	DISCHARGE (TONS/DAY) 422 384 e469 550 e719 772 e550 7820 517 172 117 79 e70 63	DISCHARGE (CFS) 60 68 62 56 55 41 42 39 41 41 40 41	CONCEN- TRATION (MG/L) JUNE 126 73 50 55 51 50 41 99 81 94 90	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5 8.2 7.4 6.0 4.5 e11 11 9.0 10 9.7 e7.6
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS) 85 87 88 88 103 115 125 127 129 134	CONCEN- TRATION (MG/L) APRIL 428 428 342 405 536 380 226 259 398	DISCHARGE (TONS/DAY) e83 e90 e96 102 e101 107 137 183 133 e95 81 93 144	DISCHARGE (CFS) 127 116 119 113 104 97 95 421 201 166 151 136 127	CONCEN- TRATION (MG/L) MAY 1230 1220 1810 1810 5170 864 385 287 216	DISCHARGE (TONS/DAY) 422 384 e469 550 e719 772 e550 7820 517 172 117 79 e70	DISCHARGE (CFS) 60 68 62 56 55 53 45 41 42 39 41 41 40	CONCEN- TRATION (MG/L) JUNE 126 73 50 55 51 41 99 81 94 90	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5 8.2 7.4 6.0 4.5 e11 11 9.0 10 9.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	DISCHARGE (CFS) 85 87 88 88 103 115 125 127 129 134 132 134 140 147	CONCENTRATION (MG/L) APRIL 428 342 405 536 380 226 259 398 377 424	DISCHARGE (TONS/DAY) e83 e90 e96 102 e101 107 137 183 133 e95 81 93 144 142 e162	DISCHARGE (CFS) 127 116 119 113 104 97 95 421 201 166 151 136 127 119 106	CONCEN- TRATION (MG/L) MAY 1230 1220 1810 5170 864 385 287 216 195 127	DISCHARGE (TONS/DAY) 422 384 e469 550 e719 772 e550 7820 517 172 117 79 e70 63 e45	DISCHARGE (CFS) 60 68 62 56 55 41 42 39 41 41 40 41 35	CONCEN- TRATION (MG/L) JUNE 126 73 50 55 51 50 41 99 81 94 90 69 119	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5 8.2 7.4 6.0 4.5 e11 11 9.0 10 9.7 e7.6 6.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	DISCHARGE (CFS) 85 87 88 88 103 115 125 127 129 134 132 132 134 140 147 134 129	CONCEN- TRATION (MG/L) APRIL 428 428 342 405 536 380 226 259 398 377 424	DISCHARGE (TONS/DAY) e83 e90 e96 102 e101 107 137 183 133 e95 81 93 144 142 e162 153 e138	DISCHARGE (CFS) 127 116 119 113 104 97 95 421 201 166 151 136 127 119 106 89 123	CONCEN- TRATION (MG/L) MAY 1230 1220 1810 5170 864 385 287 216 195 195 127 1280	DISCHARGE (TONS/DAY) 422 384 e469 550 e719 772 e550 7820 517 172 117 79 e70 63 e45 30 625	DISCHARGE (CFS) 60 68 62 56 55 53 41 42 39 41 41 40 41 35	CONCEN- TRATION (MG/L) JUNE 126 73 50 55 51 50 41 99 81 94 90 69 119 256	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5 8.2 7.4 6.0 4.5 e11 11 9.0 10 9.7 e7.6 6.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS) 85 87 88 88 103 115 125 127 129 134 132 134 140 147 134 129 132 137	CONCENTRATION (MG/L) APRIL 428 342 405 536 380 226 259 398 377 424	DISCHARGE (TONS/DAY) e83 e90 e96 102 e101 107 137 183 133 e95 81 93 144 142 e162	DISCHARGE (CFS) 127 116 119 113 104 97 95 421 201 166 151 136 127 119 106 89 123 129 122	CONCEN- TRATION (MG/L) MAY 1230 1220 1810 5170 864 385 287 216 195 127 1280 898 316	DISCHARGE (TONS/DAY) 422 384 e469 550 e719 772 e550 7820 517 172 117 79 e70 63 e45 30 625 324 104	DISCHARGE (CFS) 60 68 62 56 55 53 45 41 42 39 41 41 35 34 60 62 52	CONCENTRATION (MG/L) JUNE 126 73 50 55 51 50 41 99 81 94 90 69 119 256 622	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5 8.2 7.4 6.0 4.5 e11 11 9.0 10 9.7 e7.6 6.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS) 85 87 88 88 103 115 125 127 129 134 140 147 134 129 132	CONCEN- TRATION (MG/L) APRIL 428 428 246 259 398 377 424	DISCHARGE (TONS/DAY) e83 e90 e96 102 e101 107 137 183 133 e95 81 93 144 142 e162 153 e138 e138	DISCHARGE (CFS) 127 116 119 113 104 97 95 421 201 166 151 136 127 119 106 89 123 129	CONCEN- TRATION (MG/L) MAY 1230 1220 1810 1810 5170 864 385 287 216 195 127 1280 898	DISCHARGE (TONS/DAY) 422 384 e469 550 e719 772 e550 7820 517 172 117 79 e70 63 e45 30 625 324	DISCHARGE (CFS) 60 68 62 56 55 53 45 41 42 39 41 41 35 34 60 62	CONCEN- TRATION (MG/L) JUNE 126 73 50 55 51 50 41 99 81 94 90 69 119 256 622	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5 8.2 7.4 6.0 4.5 e11 11 9.0 10 9.7 e7.6 6.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	DISCHARGE (CFS) 85 87 88 88 103 115 125 127 129 134 140 147 134 129 132 137 128	CONCEN- TRATION (MG/L) APRIL 428 428 226 259 398 377 424	DISCHARGE (TONS/DAY) e83 e90 e96 102 e101 107 137 183 133 e95 81 93 144 142 e162 153 e138 e138 e132 e129 e114	DISCHARGE (CFS) 127 116 119 113 104 97 95 421 201 166 151 136 127 119 106 89 123 129 122 114	CONCEN- TRATION (MG/L) MAY 1230 1220 1810 1810 5170 864 385 287 216 195 127 1280 898 316	DISCHARGE (TONS/DAY) 422 384 e469 550 e719 772 e550 7820 517 172 117 79 e70 63 e45 30 625 324 104 e99	DISCHARGE (CFS) 60 68 62 56 55 53 45 41 42 39 41 41 35 34 60 62 52 38	CONCEN- TRATION (MG/L) JUNE 126 73 50 55 51 50 41 99 81 94 90 69 119 256 622 189	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5 8.2 7.4 6.0 4.5 e11 11 9.0 10 9.7 e7.6 6.5 11 47 153 e36 20
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DISCHARGE (CFS) 85 87 88 88 103 115 125 127 129 134 140 147 134 129 132 137 128	CONCEN- TRATION (MG/L) APRIL 428 428 342 405 536 380 226 259 398 377 424 287 228	DISCHARGE (TONS/DAY) e83 e90 e96 102 e101 107 137 183 133 e95 81 93 144 142 e162 153 e138 e132 e129 e114 100 78	DISCHARGE (CFS) 127 116 119 113 104 97 95 421 201 166 151 136 127 119 106 89 123 129 122 114	CONCEN- TRATION (MG/L) MAY 1230 1220 1810 5170 864 385 287 216 195 127 1280 898 316 384 384	DISCHARGE (TONS/DAY) 422 384 e469 550 e719 772 e550 7820 517 172 117 79 e70 63 e45 30 625 324 104 e99	DISCHARGE (CFS) 60 68 62 56 55 53 45 41 42 39 41 41 40 41 35 34 60 62 52 38	CONCEN- TRATION (MG/L) JUNE 126 73 50 55 51 50 41 99 81 94 90 69 119 256 622 189 140 145	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5 8.2 7.4 6.0 4.5 e11 11 9.0 10 9.7 e7.6 6.5 11 47 153 e36 20 12 12
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	DISCHARGE (CFS) 85 87 88 88 88 103 115 125 127 129 134 140 147 134 129 132 137 128	CONCEN- TRATION (MG/L) APRIL 428 428 428 424 405 536 380 226 259 398 377 424 287 228 362	DISCHARGE (TONS/DAY) e83 e90 e96 102 e101 107 137 183 133 e95 81 93 144 142 e162 153 e138 e138 e132 e129 e114 100 78 153	DISCHARGE (CFS) 127 116 119 113 104 97 95 421 201 166 151 136 127 119 106 89 123 129 122 114 97 80 73	CONCEN- TRATION (MG/L) MAY 1230 1220 1810 5170 864 385 287 216 195 127 1280 898 316 384	DISCHARGE (TONS/DAY) 422 384 e469 550 e719 772 e550 7820 517 172 117 79 e70 63 e45 30 625 324 104 e99 101 e74 e61	DISCHARGE (CFS) 60 68 62 56 55 53 45 41 42 39 41 41 35 34 60 62 52 38 33 31	CONCENTRATION (MG/L) JUNE 126 73 50 55 51 50 41 69 81 94 90 69 119 256 622 189 140 145 125	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5 8.2 7.4 6.0 4.5 e11 11 9.0 10 9.7 e7.6 6.5 11 47 153 e36 20 12 12 10
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	DISCHARGE (CFS) 85 87 88 88 103 115 125 127 129 134 132 134 140 147 134 129 132 137 128	CONCENTRATION (MG/L) APRIL 428 342 405 536 380 226 259 398 377 424 287 228 362 659	DISCHARGE (TONS/DAY) e83 e90 e96 102 e101 107 137 183 133 e95 81 93 144 142 e162 153 e138 e132 e129 e114 100 78 153 250	DISCHARGE (CFS) 127 116 119 113 104 97 95 421 201 166 151 136 127 119 106 89 123 129 122 114 97 80 73 107	CONCEN- TRATION (MG/L) MAY 1230 1220 1810 5170 864 385 287 216 195 127 1280 898 316 384 384 1030	DISCHARGE (TONS/DAY) 422 384 e469 550 e719 772 e550 7820 517 172 117 79 e70 63 e45 30 625 324 104 e99 101 e74 e61 435	DISCHARGE (CFS) 60 68 62 56 55 53 45 41 42 39 41 41 40 41 35 34 60 62 52 38 31 30 33 31	CONCENTRATION (MG/L) JUNE 126 73 50 55 51 50 41 99 81 94 90 69 119 256 622 189 140 145 125	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5 8.2 7.4 6.0 4.5 e11 11 9.0 10 9.7 e7.6 6.5 11 47 153 e36 20 12 12 12 10 e8.5
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	DISCHARGE (CFS) 85 87 88 88 88 103 115 125 127 129 134 132 132 134 140 147 134 129 132 137 128 129 137 128	CONCENTRATION (MG/L) APRIL 428 342 405 536 380 226 259 398 377 424 287 228 362 659 342	DISCHARGE (TONS/DAY) e83 e90 e96 102 e101 107 137 183 133 e95 81 93 144 142 e162 153 e138 e132 e129 e114 100 78 153 250 116	DISCHARGE (CFS) 127 116 119 113 104 97 95 421 201 166 151 136 127 119 106 89 123 129 122 114 97 80 73 107 113	CONCEN- TRATION (MG/L) MAY 1230 1220 1810 5170 864 385 287 216 195 127 1280 898 898 316 384 1030 784	DISCHARGE (TONS/DAY) 422 384 e469 550 e719 772 e550 7820 517 172 117 79 e70 63 e45 30 625 324 104 e99 101 e74 e61 435 252	DISCHARGE (CFS) 60 68 62 55 53 45 41 42 39 41 41 35 34 60 62 52 38 33 31 30 38 37	CONCENTRATION (MG/L) JUNE 126 73 50 55 51 50 41 99 81 94 90 69 119 256 622 189 140 145 125 84	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5 8.2 7.4 6.0 4.5 e11 11 9.0 10 9.7 e7.6 6.5 11 47 153 e36 20 12 12 10 e8.5 9.0
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	DISCHARGE (CFS) 85 87 88 88 88 103 115 125 127 129 134 140 147 134 129 132 137 128 129 137 128 129 127 136 134 125	CONCENTRATION (MG/L) APRIL 428 428 342 405 536 380 226 259 398 377 424 287 228 362 2659 342	DISCHARGE (TONS/DAY) e83 e90 e96 102 e101 107 137 183 133 e95 81 93 144 142 e162 153 e138 e132 e129 e114 100 78 153 250 116	DISCHARGE (CFS) 127 116 119 113 104 97 95 421 201 166 151 136 127 119 106 89 123 129 122 114 97 80 73 107 113	CONCEN- TRATION (MG/L) MAY 1230 1220 1810 5170 864 385 287 216 195 127 1280 898 316 384 1030 784	DISCHARGE (TONS/DAY) 422 384 e469 550 e719 772 e550 7820 517 172 117 79 e70 63 e45 30 625 324 104 e99 101 e74 e61 435 252	DISCHARGE (CFS) 60 68 62 56 55 53 45 41 42 39 41 41 40 41 35 34 60 62 52 38 31 30 38 37	CONCENTRATION (MG/L) JUNE 126 73 50 55 51 50 41 99 81 94 90 69 119 256 622 189 140 145 125 84 6440	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5 8.2 7.4 6.0 4.5 e11 11 9.0 10 9.7 e7.6 6.5 11 47 153 e36 20 12 12 10 e8.5 9.0 6560
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	DISCHARGE (CFS) 85 87 88 88 103 115 125 127 129 134 140 147 134 129 132 137 128 129 132 137 128 129 127 136 134 125 127 128	CONCEN- TRATION (MG/L) APRIL 428 428 405 536 380 226 259 398 377 424 287 228 362 659 342 222 247	DISCHARGE (TONS/DAY) e83 e90 e96 102 e101 107 137 183 133 e95 81 93 144 142 e162 153 e138 e132 e129 e114 100 78 153 250 116 73 80	DISCHARGE (CFS) 127 116 119 113 104 97 95 421 201 166 151 136 127 119 106 89 123 129 122 114 97 80 73 107 113	CONCEN- TRATION (MG/L) MAY 1230 1220 1810 5170 864 385 2877 216 195 127 1280 898 316 127 1280 898 316 1030 784	DISCHARGE (TONS/DAY) 422 384 e469 550 e719 772 e550 7820 517 172 117 79 e70 63 e45 30 625 324 104 e99 101 e74 e61 435 252 e57 24	DISCHARGE (CFS) 60 68 62 56 55 53 45 41 42 39 41 41 35 34 60 62 52 38 33 31 30 38 37 245 108	CONCEN- TRATION (MG/L) JUNE 126 73 50 55 51 50 41 99 81 94 90 69 119 256 622 189 140 145 125 84 6440 1770	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5 8.2 7.4 6.0 4.5 e11 11 9.0 10 9.7 e7.6 6.5 11 47 153 e36 20 12 12 10 e8.5 9.0 6560 582
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	DISCHARGE (CFS) 85 87 88 88 88 103 115 125 127 129 134 140 147 134 129 132 137 128 129 137 128 129 127 136 134 125 127 128 129 127 136 134 125	CONCENTRATION (MG/L) APRIL 428 428 342 405 536 380 226 259 398 377 424 287 228 362 2659 342	DISCHARGE (TONS/DAY) e83 e90 e96 102 e101 107 137 183 133 e95 81 93 144 142 e162 153 e138 e132 e129 e114 100 78 153 250 116 73 80 76 100	DISCHARGE (CFS) 127 116 119 113 104 97 95 421 201 166 151 136 127 119 106 89 123 129 122 114 97 80 73 107 113	CONCEN- TRATION (MG/L) MAY 1230 1220 1810 5170 864 385 287 216 195 127 1280 898 316 127 1280 898 316 1030 784 512 52	DISCHARGE (TONS/DAY) 422 384 e469 550 e719 772 e550 7820 517 172 117 79 e70 63 e45 30 625 324 104 e99 101 e74 e61 435 252 e57 24 e13 8.7	DISCHARGE (CFS) 60 68 62 56 55 53 41 42 39 41 41 40 41 35 34 60 62 52 38 33 31 30 38 37 245 108 66 66 66	CONCENTRATION (MG/L) JUNE 126 73 50 55 51 50 41 99 81 94 90 69 119 256 622 189 140 145 125 84 6440 1770 815 217	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5 8.2 7.4 6.0 4.5 e11 11 9.0 10 9.7 e7.6 6.5 11 47 153 e36 20 12 12 10 e8.5 9.0 6560 582 146 36
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 20 20 20 20 20 20 20 20 20 20 20 20 20	DISCHARGE (CFS) 85 87 88 88 103 115 125 127 129 134 132 132 134 140 147 134 129 132 137 128 129 132 137 128 129 127 136 134 125 121 120 122 125 148	CONCEN- TRATION (MG/L) APRIL 428 428 425 536 380 226 259 398 377 424 287 228 362 659 342 222 247 233 293	DISCHARGE (TONS/DAY) e83 e90 e96 102 e101 107 137 183 133 e95 81 93 144 142 e162 153 e138 e132 e129 e114 100 78 153 250 116 73 80 76 100 e664	DISCHARGE (CFS) 127 116 119 113 104 97 95 421 201 166 151 136 127 119 106 89 123 129 122 114 97 80 73 107 113 97 77 66 62 59	CONCEN- TRATION (MG/L) MAY 1230 1220 1810 5170 864 385 287 216 195 127 1280 898 316 1280 898 316 127 1280 784 1030 784	DISCHARGE (TONS/DAY) 422 384 e469 550 e719 772 e550 7820 517 172 117 79 e70 63 e45 30 625 324 104 e99 101 e74 e61 435 252 e57 24 e13 8.7 e7.8	DISCHARGE (CFS) 60 68 62 56 55 53 45 41 42 39 41 41 35 34 60 62 52 38 33 31 30 38 37 245 108 66 62 49	CONCENTRATION (MG/L) JUNE 126 73 50 55 51 50 41 99 81 94 90 69 119 256 622 189 140 145 125 84 6440 1770 815 217 82	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5 8.2 7.4 6.0 4.5 e11 11 9.0 10 9.7 e7.6 6.5 11 47 153 e36 20 12 12 10 e8.5 9.0 6560 582 146
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	DISCHARGE (CFS) 85 87 88 88 88 103 115 125 127 129 134 140 147 134 129 132 137 128 129 137 128 129 127 136 134 125 127 128 129 127 136 134 125	CONCEN- TRATION (MG/L) APRIL 428 428 342 405 536 380 226 259 398 377 424 287 228 362 259 342 222 247 233 293	DISCHARGE (TONS/DAY) e83 e90 e96 102 e101 107 137 183 133 e95 81 93 144 142 e162 153 e138 e132 e129 e114 100 78 153 250 116 73 80 76 100	DISCHARGE (CFS) 127 116 119 113 104 97 95 421 201 166 151 136 127 119 106 89 123 129 122 114 97 80 73 107 113	CONCEN- TRATION (MG/L) MAY 1230 1220 1810 5170 864 385 287 216 195 127 1280 898 316 127 1280 898 316 1030 784 512 52	DISCHARGE (TONS/DAY) 422 384 e469 550 e719 772 e550 7820 517 172 117 79 e70 63 e45 30 625 324 104 e99 101 e74 e61 435 252 e57 24 e13 8.7	DISCHARGE (CFS) 60 68 62 56 55 53 41 42 39 41 41 40 41 35 34 60 62 52 38 33 31 30 38 37 245 108 66 66 66	CONCENTRATION (MG/L) JUNE 126 73 50 55 51 50 41 99 81 94 90 69 119 256 622 189 140 145 125 84 6440 1770 815 217	DISCHARGE (TONS/DAY) 20 13 8.3 e7.5 8.2 7.4 6.0 4.5 e11 11 9.0 10 9.7 e7.6 6.5 11 47 153 e36 20 12 12 10 e8.5 9.0 6560 582 146 36

07105500 FOUNTAIN CREEK AT COLORADO SPRINGS, CO--Continued

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		SE	PTEMBER	
1 2 3 4 5	42 44 65 38 33	82 87 755 51	9.2 14 195 e5.1 4.5	25 26 29 39 42	305 225 564 369	21 30 e18 78 48	78 54 50 46 35	655 116 119 100	173 e22 16 15 9.4
6 7 8 9 10	31 30 31 32 34	52 118	4.4 e5.6 e7.1 e9.2	55 34 26 23 23	437 146 59 65	171 13 e6.4 3.6 4.1	38 35 29 31 27	100 124 150 195 166	10 12 12 16 12
11 12 13 14 15	36 41 37 36 52	97 61 726	e11 11 6.1 e4.8 320	29 28 25 30 29	109 121 250	12 9.2 e5.8 e11 23	24 23 33 25 25	 114 80	e9.6 e8.6 e19 7.8 5.3
16 17 18 19 20	56 200 53 41 44	1580 3860 296	475 4810 e204 e71 34	25 52 72 40 34	166 390 725 219 318	11 92 208 23 29	27 22 24 23 22	63 68 114 286	4.6 e3.4 4.4 7.0
21 22 23 24 25	40 36 34 32 31	171 189 	18 19 e19 e18 e18	107 64 65 46 108	1440 824 620 132 1050	1430 166 222 17 1620	33 47 68 78 47	630 903 662 153	82 e181 220 166 20
26 27 28 29 30 31	30 28 39 39 31 28	242 391 500 498	e19 18 55 e63 42 37	118 58 136 197 71 58	1830 1170 1800 2090 324 337	877 190 1980 1850 62 55	39 36 33 32 32	87 100 140 122	9.3 e7.7 8.9 12 10
TOTAL	1344		6538.0	1714		9286.1	1116		1101.0

e Estimated.

07105530 FOUNTAIN CREEK BELOW JANITELL ROAD BELOW COLORADO SPRINGS, CO

LOCATION.--Lat $38^\circ48^\circ11^\circ$, long $104^\circ47^\circ43^\circ$, in $\mathrm{NE}^1/_4\mathrm{SE}^1/_4$ sec.29, T.14 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on left bank at downstream 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. 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. July 10, 1990 to May 27, 1999 on right bank at upstream side of bridge on Janitell Road at same datum. May 28, 1999 to present at current site and 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, ground-water withdrawals, diversions for irrigation and municipal use, return flow from irrigated areas, and flows from sewage treatment plants.

		DISCHAR	GE, CUBIC	C FEET PER		WATER YE MEAN VA	AR OCTOBER LUES	1999 TO :	SEPTEMBI	ER 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	223 222 223 201 173	144 148 148 148 149	155 149 168 167 161	100 98 88 84 88	118 129 141 146 147	123 125 128 130 131	169 173 162 160 168	146 140 141 140 140	120 122 118 113 112	96 101 119 92 88	84 84 94 100 108	119 99 96 98 88
6 7 8 9 10	169 303 197 192 188	150 149 152 151 149	168 162 162 e160 e155	84 84 91 90 91	147 146 144 143	132 152 155 129 127	169 174 177 176 176	137 136 449 227 192	110 105 103 103 102	86 86 88 89 91	122 101 89 85 86	86 85 79 85 80
11 12 13 14 15	187 183 176 172 170	148 141 139 139 138	e153 e150 149 145 140	93 94 94 97 101	140 141 142 140 140	130 135 131 132 141	171 163 162 165 172	179 171 166 160 156	104 104 103 105 102	94 96 89 89 98	89 90 86 95 94	77 76 88 82 82
16 17 18 19 20	184 172 172 178 165	135 132 126 117 122	138 136 132 130 117	101 102 104 113 130	142 145 154 144 141	202 158 156 141 144	163 159 164 163 156	146 164 166 158 154	101 125 135 119 106	108 304 102 93 94	96 119 135 99 93	83 80 79 80 79
21 22 23 24 25	163 161 164 161 159	131 188 179 162 166	110 109 113 111 107	132 134 133 135 135	141 136 139 134 132	146 162 153 147 150	159 161 168 169 157	145 133 125 146 157	103 101 101 104 104	87 85 83 82 83	163 132 163 112 189	88 109 136 150 106
26 27 28 29 30 31	152 149 153 151 148 145	187 175 165 163 156	109 108 109 111 106 102	152 138 128 125 124 123	128 129 126 130 	149 150 151 157 165 194	154 147 144 145 158	145 132 124 123 120 121	303 169 136 131 113	82 84 102 98 88	169 115 225 219 110 101	96 91 89 88 90
TOTAL MEAN MAX MIN AC-FT	5556 179 303 145 11020	4497 150 188 117 8920	4192 135 168 102 8310	3386 109 152 84 6720	4028 139 154 118 7990	4526 146 202 123 8980	4904 163 177 144 9730 BY WATER	4939 159 449 120 9800	3577 119 303 101 7090	3065 98.9 304 82 6080	3647 118 225 84 7230	2764 92.1 150 76 5480
MEAN MAX (WY) MIN (WY)	110 179 2000 47.3 1993	103 150 2000 48.6 1990	82.2 140 1998 39.5 1990	83.8 122 1998 46.2 1990	94.6 139 2000 56.4 1990	107 161 1998 76.4 1991	184 658 1999 86.1 1993	314 1022 1999 78.6 1993	256 693 1997 69.4 1990	151 319 1995 70.1 1993	177 467 1999 74.2 1993	118 200 1999 59.7 1992
SUMMARY	STATISTI	CS	FOR 1	1999 CALEN	IDAR YEAR	F	OR 2000 WA	TER YEAR		WATER YE	ARS 1990	- 2000
LOWEST A HIGHEST LOWEST I ANNUAL S INSTANTA ANNUAL F 10 PERCE 50 PERCE	MEAN ANNUAL MEANNUAL ME DAILY MEA SEVEN-DAY ANEOUS PE	CAN CAN LIN CAN CAK FLOW CAK STAGE LC-FT) CDS		117255 321 10300 70 71 232600 661 169 104	Apr 30 Mar 10 Mar 8		49081 134 449 76 81 3630 7.35 97350 172 135 88	May 8 Sep 12 Sep 14 Jul 17 Jul 17		155 312 76.0 10300 31 35 a13800 b10.55 112200 241 101 56	Dec 1 Nov 2 Apr 3	1999 1993 30 1999 4 1992 11 1989 00 1999 10 1999

e Estimated.

b Maximum gage height, 11.11 ft, Sept 2, 1994.

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.--DISSOLVED OXYGEN: October 1990 to January 1998. pH: October 1990 to January 1998 SPECIFIC CONDUCTANCE: October 1990 to January 1998 WATER TEMPERATURE: October 1990 to January 1998

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

EXTREMES FOR PERIOD OF RECORD.-DISSOLVED OXYGEN: Maximum, 11.3 mg/L, May 5, 1991; minimum, 4.4 mg/L, Mar. 28, 1991.
pH: Maximum, 8.8 units, July 19, 1995; minimum, 6.7 units, July 26, 1995.
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.

WATER-OHALITY	DATA.	WATER	YEAR	OCTOBER	1999	TO	SEPTEMBER	2000

DATE	TIM	DISCHARGE CHARGE INST CUBIC FEE E PER SECOL (0006)	E, SPE CIFIC C CON- T DUCT- ANCE ND (US/CN	FIELD - (STAND ARD 1) UNITS	TEMPEI ATURI WATEI () (DEG (E DIS- R SOLVI C) (MG/I	- ICAL ED 5 DA' L) (MG/	D, FORM, FECAL O.7 UM-MF Y (COLS. L) 100 ML	DIS- SOLVE / (MG/I	DIS D SOLV (MG/	M, SULFA: - DIS- ED SOLVI L (MG/I G) AS SO	DIS- ED SOLVED L (MG/L 4) AS F)
OCT 19 DEC	114	5 174	628	7.4	10.0	9.5	2.5	380	53.9	15.7	120	1.8
14	091	5 141	734	7.7	8.0	9.3	3.1	110	60.4	18.6	150	2.0
FEB 15	110	0 150	739	7.7	10.5	9.3	6.2	92	58.3	18.9	170	1.9
APR 18	101	5 181	531	7.9	11.0	9.4	3.1	K630	43.2	12.9	120	2.1
JUN 20	104	5 116	740	7.9	20.0	7.8	4.5	1100	56.0	18.4	170	2.0
AUG 14	133	0 109	767	7.8	24.0	7.4	3.6	K370	56.8	19.0	190	1.7
	DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)		PHOS- PHORUS TOTAL (MG/L	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	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)
OCT 1 DEC	9	2.30	<.020	.400	.080	2	<1.0	160	159	.2	<.1	3
1 FEB	4	2.90	.070	.500	.400	1	<1.0	199	203	.1	.1	1
	5	3.40	1.00	.300	.100	2	<1.0	217	220	.2	<.1	1
	8	1.70	.110	.400	.200	3	1.4	152	148	.3	.1	3
	20	2.60	.088	.477	.205	2	2.3	256	258	.2	.1	2
	4	3.03	.060	.457	.167	2	1.8	276	275	.1	<.1	1
	DATE	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)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)
OCT	9	1.4	7	2	3450	40	5	<1	166	69	<.3	<.2
DEC		<1.0	5	2	720	50	2	<1	91	67	<.3	<.2
FEB		<1.0	6	3	1130	20	3	<1	109	81		<.1
APR		2.0	8	1	1130	20	3 11	<1	161	45		<.1
JUN		3.4	9	5	760	30	2	<1	96	45 69		<.2
AUG		1.4	9 7	5	640	<10	2	<1	96 78	56	<.3	<.2
1	7	1.4	/	5	040	< 10	∠	< ⊥	78	50	<.3	<.∠

07105530 FOUNTAIN CREEK BELOW JANITELL ROAD, BELOW COLORADO SPRINGS, CO--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
OCT 19	8	2	4	3.7	<1	<1	56	30	<.01		
DEC 14	5	6	7	6.7	<1	<1	57	53	<.01	49	19
FEB 15	6	4	7	5.3	<1	<1	65	56	<.01	64	26
APR 18	5	4	5	4.5	<1	<1	64	31	<.01	192	94
JUN 20	6	5	7	7.7	<1	<1	69	63	<.01	88	28
AUG 14	6	4	7	6.2	<1	<1	61	<3	<.01	37	11
	WATER-OH	ייבר עייד.זבו	A DITRING	24-HOTTR 9	AMDI.TNG	WATER VEA	R OCTOBER	1999 ™∩	SEPTEMBER	2000	
DATE	WATER-QU	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
FEB 28 28 28 29 29	0630 1205 1830 0115 0600	109 139 131 121 125	723 728 769 773 850	7.5 7.6 7.8 7.7	6.0 11.3 11.7 9.5 6.5	12.2 9.4 8.3 9.3 10.0	6.4 8.4 >9.2 >9.2 >9.3	2.80 2.60 3.10 2.10 2.80	1.79 1.58 4.40 3.80 2.10	.700 .600 .540 2.00 1.20	.600 .300 .400 1.20 .700
JUL 19 19 20 20	0615 1230 1830 0130 0630	77 104 91 81 73	693 701 732 756 772	8.1 7.9 8.0 8.0 8.2	17.4 22.5 23.3 19.5 17.5	7.2 7.1 6.7 7.0 7.3	1.1 1.8 3.8 1.7	2.35 2.38 3.92 3.42 2.89	.069 .048 .238 .056	.189 .210 .239 .107 .086	.074 .052 .076 .090
DATE	MIS TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	TS, WATER	YEAR OCT	OBER 1999 DATE	TO SEPTE	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 06	1125	174	735	14.5			02	1420	140	525	16.5
NOV 02	1405	155	813	13.5		JU		1410	193	480	17.5
DEC 07	1210	166	785	10.5		JU		1200	118	682	21.5
JAN 06	1405	89	822	8.0			06 26	1220 1340	96 95	739 758	23.5 23.0
FEB 03 MAR	1200	156	766	8.5			07	1435	113	722	24.5
01 APR	1400	122	776	11.5		SE	24 P 07	1340 1215	118 100	722 730	21.5
06	1240	180	572	12.5			07	1213	100	730	21.5

07105800 FOUNTAIN CREEK AT SECURITY, CO

LOCATION.--Lat $38^{\circ}43^{\circ}46^{\circ}$, long $104^{\circ}44^{\circ}00^{\circ}$, in $\mathrm{NE}^{1}/_{4}\mathrm{SW}^{1}/_{4}$ 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, 1996 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 1.00 ft higher.

REMARKS.--No estimated daily discharges. Records fair except for those above 1,500 ft³/s, which are poor. Natural flow of stream affected by storage reservoirs, power developments, ground-water withdrawals, diversions for municipal use and for irrigation of about 5,100 acres, return flows from irrigated acreage, flows from sewage treatment plants, and transbasin and

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		DISCHA	KGE, CODI	C PEET FE		MEAN VA		. 1999 10 L	JEF LEMDI	51C 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	222	206	180	142	130	140	202	186	119	122	83	136
2	211	202	177	145	150	151	226	176	132	125	88	112
3	202	207	198	126	162	159	203	176	130	172	101	110
4 5	190 187	208 202	190 189	110 118	172 172	164 174	208 215	167 163	124 126	116 100	117 129	117 111
5	107	202	109	110	1/2	1/4	213	103	120	100	129	111
6	186	204	198	104	170	171	222	154	125	89	181	97
7 8	394 310	201 199	197 194	102 117	170 164	193 199	234 241	148 538	118 113	91 94	114 97	104 102
9	328	199	194	117	163	163	241	341	107	94 95	97 87	111
10	297	194	181	110	163	163	238	233	100	97	89	104
11	245	197	184	115	162	175	244	187	103	102	93	100
12	215	190	178	117	160	194	239	168	98	110	105	97
13	204	187	180	121	157	194	230	173	94	98	95	104
14	207	189	172	134	150	197	229	173	98	98	116	103
15	216	186	165	142	149	224	232	168	89	101	108	96
16	257	190	180	147	153	324	211	155	89	126	123	97
17	226	186	176	150	161	229	189	188	131	446	158	96
18	228	183	176	148	182	217	189	197	142	206	162	99
19	252	176	171	158	159	176	194	208	106	120	91	102
20	220	176	157	168	151	172	186	202	109	114	89	106
21	220	185	143	149	151	179	188	176	107	110	194	117
22	212	245	141	152	148	210	186	148	103	92	164	144
23	214	192	146	143	154	191	196	128	102	85	201	169
24 25	214	195	147	150 153	149	191 191	210	151	106 104	83	136 258	183 93
25	210	194	137	153	146		210 207	206	104	93	258	93
26	205	227	139	171	140 144 139	191 199 204	196 185 180 181	161 153 135 125	410 265 213	97	251	78
27	208	215 205	140 145	154 150	144	199	185	153	265	119 135	157	73 75
28 29	212 210	205	154	146	148	213	180	135	174	111	436 614	75 83
30	202	189	150	140	140	227	202	121	145	92	152	89
31	205		139	135		277		125		91	118	
TOTAL	7109	5926	5205	4232	4519	6052	6304	5730	3982	3730	4907	3208
MEAN	229	198	168	137	156	195	210	185	133	120	158	107
MAX	394	245	198	171	182	324	244	538	410	446	614	183
MIN	186	176	137	102	130	140	180	121	89	83	83	73
AC-FT	14100	11750	10320	8390	8960	12000	12500	11370	7900	7400	9730	6360
STATIST	rics of M	ONTHLY ME	AN DATA F	OR WATER :	YEARS 1965	- 2000,	BY WATER	YEAR (WY)				
MEAN	82.2	73.6	63.7	67.3	74.1	85.6	124	217	193	122	136	86.9
MAX	317	198	160	146		195	738	1131	886	381	561	231
(WY)	1985	2000	2000	146 1998	2000	2000	1999	1999	1997	1995	1999	1999
MIN	12.6	15.1	17.8	11.9	14.1	21.3	23.7	24.7	17.8	30.1	23.5	13.1
(WY)	1965	1965	168 2000 17.8 1976	1976	1972	1965	1978	1966	1968	1972	1974	1968
SUMMAR	Y STATIST	ICS	FOR	1999 CALEI	NDAR YEAR	F	OR 2000 W	ATER YEAR		WATER YEA	ARS 1965	- 2000
ANNUAL	TOTAT			135536			60904					
ANNUAL				371			166			111		
	r annual									355		1999
	ANNUAL M									31.5		1968
	r daily m			e11000	Apr 30		614	Aug 29		e11000	Apr (30 1999
	DAILY ME			84 87	Mar 11 Mar 8		73 95	Sep 27		1.9	Mar	1 1965
	SEVEN-DA FANEOUS P	Y MINIMUM		87	Mar 8		4320	JUL 5		355 31.5 e11000 1.9 4.2 a25000 b11.30 80180	reo .	23 1965 24 1965
		EAK FLOW EAK STAGE						Jul 17 1 Jul 17		a25000 h11 30	Jul	24 1965
		AC-FT)		268800			120800	_ UUI I/		80180	Jul	-1 1703
	CENT EXCE			792			223			202		
50 PER	CENT EXCE	EDS		206			163			75		
90 PER	CENT EXCE	EDS		116			98			24		

e Estimated.

a From rating curve extended above $2900 \text{ ft}^3/\text{s}$, on basis of slope-area measurement of peak flow. Flood of May 30, 1935 may have been larger. b 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 January 1998.

WATER TEMPERATURE: October 1990 to January 1998.

pH: October 1990 to January 1998.

pH: October 1990 to January 1998.

DISSOLVED OXYGEN: October 1990 to January 1998.

SUSPENDED SEDIMENT: April 1998 to current year (seasonal records only).

INSTRUMENTATION. -- Pumping sediment sampler since April 1998.

REMARKS.--Daily suspended sediment records are fair. Daily data that are not published are either missing or of unacceptable quality.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

EXTREMES FOR PERIOD OF RECORD . --

TREMES FOR PERIOD OF RECORD.-DISSOLVED OXYGEN: Maximum, 14.2 mg/L, Oct. 25, 1997; minimum, 3.5 mg/L, Aug. 9, 1992.
pH: Maximum, 8.9 units, Apr. 18-20, 1997; minimum, 6.5 units, May 24-25, 1996.
SPECIFIC CONDUCTANCE: Maximum, 1,460 microsiemens, Mar. 6, 1996; minimum, 101 microsiemens, June 12, 1995.
WATER TEMPERATURE: Maximum, 29.8°C, July 17, 1991; minimum, 0.0°C, many days.
SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 4,570 mg/L, June 30, 1998; minimum daily mean, 28 mg/L, June 7, 2000.
SEDIMENT LOAD (seasonal only): Maximum daily, 400,000 tons (estimated), Apr. 30, 1999; minimum daily, 7.6 tons (estimated), June 6, 2000.

June 6, 2000.

EXTREMES FOR CURRENT YEAR.-SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 3,300 mg/L, Oct 8; minimum daily mean, 28 mg/L, June 7.
SEDIMENT LOAD (seasonal only): Maximum daily, 9,120 tons, July 17; minimum daily, 7.6 tons (estimated), June 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

			WILLIAM	QUILLII I	J. 11111, W.111.	DIC IDINC O	CIODER IJ.	,, 10 DBI.	LINDIN 200	, ,		
DATE	TIME	DIS- CHARGE INST. CUBIC FEET PER SECON (00061	, SPE- CIFIC CON- DUCT- ANCE D (US/CM	FIELI (STANI ARD () UNITS	E TEMPE D- ATUR WATE S) (DEG (E DIS R SOLV C) (MG/	- ICAL, ED 5 DAY L) (MG/I	D, FORM FECAI - 0.7 , UM-MI (COLS L) 100 MI	L, CALCIU DIS- F SOLVI ./ (MG/I L) AS CA	DIS- ED SOLVE L (MG/I A) AS MG	M, SULFAT DIS- SOLVE (MG/L AS SO4	DIS- ED SOLVED (MG/L) AS F)
OCT 19 DEC	0945	227	677		7.5	9.7	2.8	820	61.8	17.8	140	1.6
13	1430	187	795	8.3	8.5	9.6	2.9		65.8	20.2	170	1.8
FEB 15	0900	120	844	8.2	6.5	9.9	7.6	62	73.3	22.5	210	1.7
APR 18	0845	170	555	8.2	9.5	9.5	2.1	93	48.0	13.7	120	2.0
JUN 20	0945	88	839	8.2	17.0	7.6	3.0	400	67.8	21.0	190	1.8
AUG 14	1215	120	888	8.3	25.5	7.1	4.0	960	69.8	22.7	220	1.6
DAT	No E	DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	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)
OCT 19 DEC	:	2.80	.030	.400	.200	2	<1.0	135	133	.2	<.1	2
13 FEB		3.80	.170	.400	.300	2	1.2	220	220	.1	<.1	2
15	:	3.80	1.20	.300	.200	2	<1.0	189	180	.3	.1	2
APR 18	:	2.00	.130	.400	.300	2	1.4	115	114	.2	<.1	2
JUN 20		3.34	.080	.773	.624	3	2.9	210	216	.2	.1	2
AUG 14		3.38	.057	.533	.319	3	2.3	220	205	.2	.2	2

07105800 FOUNTAIN CREEK AT SECURITY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)
OCT 19	1.8	7	2	3420	20	4	<1	142	32	<.3	<.2
DEC 13	<1.0	6	3	1550	20	3	<1	98	44	<.3	<.2
FEB 15	<1.0	8	5	1690	<10	2	<1	106	59	<.3	<.2
APR 18	<1.0	5	2		<10	3	<1	93	23		<.1
JUN 20	3.5	8	5	720	<10	1	<1	58	22	<.3	<.2
AUG 14	1.3	9	4	2060	<10	3	<1	86	7	<.3	<.2
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
OCT 19	8	3	5	5.4	<1	<1	43	20	<.01		
DEC 13	6	6	7	6.4	<1	<1	54	44	<.01	87	44
FEB 15	8	4	9	7.4	<1	<1	46	31	<.01	74	24
APR 18	4	4	5	5.1	<1	<1	28	17	<.01	94	43
JUN 20	7	6	8	9.2	<1	<1	40	34	<.01	39	9.3
AUG 14	8	7	10	8.4	<1	<1	41	<3	<.01	179	58
	MARKED ON	INT TIME TANK	N DIDING	24 HOUR C	AMDI TMG	MARRIED VIEW	D OGEODED	1000 50	CEDWEMBED	2000	
	WATER-QU	JALITY DAT	A DURING		AMPLING,	WATER YEA				2000	
DATE	WATER-QU	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	1999 TO NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	SEPTEMBER NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
FEB 28 28 29 29		DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
FEB 28 28 28 29	0900 1500 2130 0400	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010) 6.1 12.9 9.6 7.5	OXYGEN, DIS- SOLVED (MG/L) (00300) 9.2 8.4 8.7 9.7	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310) 10 8.2 16 17	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 3.30 3.40 3.60 2.70	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 1.70 1.35 2.40 3.00	PHOS- PHORUS TOTAL (MG/L AS P) (00665) .700 .700 .700 1.70	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .500 .400 .400 .900
FEB 28 28 29 29 JUL 19 19 20 20	0900 1500 2130 0400 0900 0845 1500 2130 0400	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 109 151 139 131 134 95 128 102 95 80	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 808 787 826 817 889 801 783 765 809 837	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400) 7.8 8.1 8.0 8.1 8.2 8.2 8.3 8.3 8.3	TEMPER- ATURE WATER (DEG C) (00010) 6.1 12.9 9.6 7.5 6.5 18.4 27.6 22.0 18.5 20.5	OXYGEN, DIS- SOLVED (MG/L) (00300) 9.2 8.4 8.7 9.7 10.2 7.1 6.5 6.4 7.0 7.3	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310) 10 8.2 16 17 12 1.2 1.4 3.2 1.1 <1.0	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 3.30 3.40 3.60 2.70 3.30 2.87 2.73 3.43 3.66 3.17	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 1.70 1.35 2.40 3.00 2.40 .071 .102 .080 .028 .051	PHOS- PHORUS TOTAL (MG/L AS P) (00665) .700 .700 .700 1.70 .900 .385 .404 .462 .176 .249	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .500 .400 .400 .700 .225 .187 .207 .163 .256
FEB 28 28 29 29 JUL 19 19 20 20	0900 1500 2130 0400 0900 0845 1500 2130 0400 0930	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 109 151 139 131 134 95 128 102 95 80	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 808 787 826 817 889 801 783 765 809 837	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400) 7.8 8.1 8.0 8.1 8.2 8.2 8.3 8.3 8.3	TEMPER- ATURE WATER (DEG C) (00010) 6.1 12.9 9.6 7.5 6.5 18.4 27.6 22.0 18.5 20.5	OXYGEN, DIS- SOLVED (MG/L) (00300) 9.2 8.4 8.7 9.7 10.2 7.1 6.5 6.4 7.0 7.3	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310) 10 8.2 16 17 12 1.2 1.4 3.2 1.1 <1.0	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 3.30 3.40 3.60 2.70 3.30 2.87 2.73 3.43 3.66 3.17	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 1.70 1.35 2.40 3.00 2.40 .071 .102 .080 .028 .051	PHOS- PHORUS TOTAL (MG/L AS P) (00665) .700 .700 .700 1.70 .900 .385 .404 .462 .176 .249	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .500 .400 .400 .700 .225 .187 .207 .163 .256
FEB 28 28 29 29 JUL 19 19 20 WATI	0900 1500 2130 0400 0900 0845 1500 2130 0400 0930	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) 109 151 139 131 134 95 128 102 95 80 DATA DUR DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 808 787 826 817 889 801 783 765 809 837 SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) 7.8 8.1 8.0 8.1 8.2 8.2 8.3 8.3 8.3 WATER-RUN PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C) (00010) 6.1 12.9 9.6 7.5 6.5 18.4 27.6 22.0 18.5 20.5 OFF SAMPL TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L) (00300) 9.2 8.4 8.7 9.7 10.2 7.1 6.5 6.4 7.0 7.3 .ING, WATE	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310) 10 8.2 16 17 12 1.2 1.4 3.2 1.1 <1.0 R YEAR OC OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 3.30 3.40 3.60 2.70 3.30 2.87 2.73 3.43 3.66 3.17 TOBER 199 COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 1.70 1.35 2.40 3.00 2.40 .071 .102 .080 .028 .051 9 TO SEPT CALCIUM DIS- SOLVED (MG/L AS CA)	PHOS-PHORUS TOTAL (MG/L AS P) (00665) .700 .700 .700 1.70 900 .385 .404 .462 .176 .249 EMBER 200 MAGNE-SULW, DIS-SOLVED (MG/L AS MG)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .500 .400 .400 .900 .700 .225 .187 .207 .163 .256 SULFATE DIS- SOLVED (MG/L AS SO4)
FEB 28 28 29 29 JUL 19 19 20 WATT	0900 1500 2130 0400 0900 0845 1500 2130 0400 0930 ER-QUALITY	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 109 151 139 131 134 95 128 102 95 80 T DATA DUR DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 808 787 826 817 889 801 783 765 809 837 SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400) 7.8 8.1 8.0 8.1 8.2 8.2 8.3 8.3 8.3 8.3 WATER-RUN PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010) 6.1 12.9 9.6 7.5 6.5 18.4 27.6 22.0 18.5 20.5 OFF SAMPL TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300) 9.2 8.4 8.7 9.7 10.2 7.1 6.5 6.4 7.0 7.3 ING, WATE	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310) 10 8.2 16 17 12 1.2 1.4 3.2 1.1 <1.0 R YEAR OC OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 3.30 3.40 3.60 2.70 3.30 2.87 2.73 3.43 3.66 3.17 TOBER 199 COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 1.70 1.35 2.40 3.00 2.40 .071 .102 .080 .028 .051 9 TO SEPT CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	PHOS- PHORUS TOTAL (MG/L AS P) (00665) .700 .700 .700 1.70 .900 .385 .404 .462 .176 .249 EMBER 200 MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .500 .400 .400 .900 .700 .225 .187 .207 .163 .256 0 SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
FEB 28 28 29 29 JUL 19 19 20 WAT!	0900 1500 2130 0400 0900 0845 1500 2130 0400 0930 ER-QUALITY	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 109 151 139 131 134 95 128 102 95 80 C DATA DUR DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 808 787 826 817 889 801 783 765 809 837 ING STORM SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400) 7.8 8.1 8.0 8.1 8.2 8.2 8.3 8.3 8.3 WATER-RUN PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400) 8.1	TEMPER- ATURE WATER (DEG C) (00010) 6.1 12.9 9.6 7.5 6.5 18.4 27.6 22.0 18.5 20.5 MOFF SAMPL TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300) 9.2 8.4 8.7 9.7 10.2 7.1 6.5 6.4 7.0 7.3 ING, WATE	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310) 10 8.2 16 17 12 1.2 1.4 3.2 1.1 <1.0 R YEAR OC OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 3.30 3.40 3.60 2.70 3.30 2.87 2.73 3.43 3.66 3.17 TOBER 199 COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 1.70 1.35 2.40 3.00 2.40 .071 .102 .080 .028 .051 9 TO SEPT CALCIUM DIS- SOLVED (MG/L AS CA) (00915) 30.1	PHOS-PHORUS TOTAL (MG/L AS P) (00665) .700 .700 .700 1.70 .900 .385 .404 .462 .176 .249 EMBER 200 MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .500 .400 .400 .900 .700 .700 .225 .187 .207 .163 .256 0 SULFATE DIS- SOLVED (MG/L AS SO4) (00945)

07105800 FOUNTAIN CREEK AT SECURITY, CO--Continued

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	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)
MAY 08	.7	1.14	.300	4.17	.095	21	1.5	94	63	2.5	.1
JUN 26	. 9	1.70	.110	1.18	.303	6	1.4	115	114	.6	.1
JUL 17	.5	1.03	.134	8.14	.043	38	2.2	62	24	4.7	<.1
AUG 21	.7	1.57	.190	4.30	.095	32	2.5	89	67	4.3	<.1
DATE	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)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	(UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)
MAY 08	31	1.1	76	2	53800	40	124	<1	2330	41	E.2
JUN 26	8	<1.0	24	3	11800	20	21	<1	481	6	<.3
JUL 17	46	<1.0	129	1	81600	10	286	<1	4280	22	. 4
AUG 21	31	<1.0	94	2	63100	70	215	<1	2460	18	.3
DATE	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN) (00720)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
MAY 08	<.2	54	3	10	3.0	<1	<1	431	9	<.01	
JUN											
26	<.2	14	3	7	4.3	<1	<1	99	15	<.01	884
JUL 17	<.2	14	3 2	7 16	4.3	<1 1	<1 <1	99 901	15 5	<.01	884 7380
JUL		14 53									
JUL 17 AUG	<.2		2	16	3.0	1	<1	901	5 15 BENZO-[GHI]- PERY- LENE TOTAL (UG/L)	<.01	7380
JUL 17 AUG 21 DATE MAY 08	<.2 <.2 SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	2 3 ACE- NAPHTH- YLENE TOTAL (UG/L)	16 10 ACE- NAPHTH- ENE TOTAL (UG/L)	3.0 3.2 ANTHRA- CENE TOTAL (UG/L)	1 <1 BENZ(A) ANTHRA- CENE WATER UNFLTRD REC (UG/L)	<1 <1 SENZO B FLUOR- AN- THENE TOTAL (UG/L)	901 808 BENZO- A- PYRENE TOTAL (UG/L)	5 15 BENZO-[GHI]- PERY- LENE TOTAL (UG/L)	<.01 <.01 BENZO K FLUOR- AN- THENE TOTAL (UG/L)	7380 5080 CHRY- SENE TOTAL (UG/L)
JUL 17 AUG 21 DATE MAY 08 JUN 26	<.2 <.2 SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	2 3 ACE-NAPHTH-YLENE TOTAL (UG/L) (34200)	16 10 ACE- NAPHTH- ENE TOTAL (UG/L) (34205)	3.0 3.2 ANTHRA- CENE TOTAL (UG/L) (34220)	1 <1 BENZ(A) ANTHRA- CENE WATER UNFLIRD REC (UG/L) (34526)	<1 <1 SENZO B FLUOR- AN- THENE TOTAL (UG/L) (34230)	901 808 BENZO- A- PYRENE TOTAL (UG/L) (34247)	5 15 BENZO [GHI]- PERY- LENE TOTAL (UG/L) (34521)	<.01 <.01 SENZO K FLUOR- AN- THENE TOTAL (UG/L) (34242)	7380 5080 CHRY- SENE TOTAL (UG/L) (34320)
JUL 17 AUG 21 DATE MAY 08 JUN 26 JUN JUN 177	<.2 <.2 SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. FINER THAN. .062 MM(70331)	2 3 ACE- NAPHTH- YLENE TOTAL (UG/L) (34200)	16 10 ACE- NAPHTH- ENE TOTAL (UG/L) (34205)	3.0 3.2 ANTHRA- CENE TOTAL (UG/L) (34220)	1 <1 BENZ(A) ANTHRA- CENE WATER UNFLTRD REC (UG/L) (34526) <3	<1 SENZO B FLUOR- AN- THENE TOTAL (UG/L) (34230)	901 808 BENZO-A- PYRENE TOTAL (UG/L) (34247)	5 15 BENZO- [GHI]- PERY- LENE TOTAL (UG/L) (34521)	<.01 <.01 SENZO K FLUCR- AN- THENE TOTAL (UG/L) (34242)	7380 5080 CHRY- SENE TOTAL (UG/L) (34320)
JUL 17 AUG 21 DATE MAY 08 JUN 26 JUL 17	<.2 <.2 SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155) 523	SED. SUSP. SIEVE DIAM. FINER THAN .062 MM (70331)	2 3 ACE- NAPHTH- YLENE TOTAL (UG/L) (34200) <2 <2	16 10 ACE- NAPHTH- ENE TOTAL (UG/L) (34205)	3.0 3.2 ANTHRA- CENE TOTAL (UG/L) (34220) <2 <2	1 <1 BENZ(A) ANTHRA- CENE WATER UNFLIRD REC (UG/L) (34526) <3 <3	<1 <1 SENZO B FLUOR- AN- THENE TOTAL (UG/L) (34230) <3 <3	901 808 BENZO-A- PYRENE TOTAL (UG/L) (34247)	5 15 BENZO-[GHI]- PERY- LENE TOTAL (UG/L) (34521) <3 <3	<.01 <.01 <.01 BENZO K FLUOR- AN- THENE TOTAL (UG/L) (34242) <3 <3	7380 5080 CHRY- SENE TOTAL (UG/L) (34320) <3 <3
JUL 17 AUG 21 DATE MAY 08 JUN 26 JUL 17 AUG	<.2 <.2 <.2 SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155) 523 29500	53 SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	2 3 ACE- NAPHTH- YLENE TOTAL (UG/L) (34200) <2 <2 <2 <2 <1 FLUOR- ENE TOTAL (UG/L) (UG/L)	16 10 ACE- NAPHTH- ENE TOTAL (UG/L) (34205) <2 <2 <2 <2 <1 TNDEN (1,2, CD PYREN TOTAL (UG/L)	3.0 3.2 ANTHRA- CENE TOTAL (UG/L) (34220) <2 <2 <2 <2 <2 <1 <1 COMPANY COMPA	1 <1 BENZ(A) ANTHRA- CENE WATER UNFLTRD REC (UG/L) (34526) <3 <3 <3 <7 TH- PHE NE THR NE THR AL TO L) (UG/L)	<1 <1 <1	901 808 BENZO-A- PYRENE TOTAL (UG/L) (34247) <3 <3 <3 <3	5 15 BENZO [GHI]- PERY- LENE TOTAL (UG/L) (34521) <3 <3 <3 <3	<.01 <.01 SENZO K FLUOR- AN- THENE TOTAL (UG/L) (34242) <3 <3 <3	7380 5080 CHRY- SENE TOTAL (UG/L) (34320) <3 <3 <3
JUL 17 AUG 21 DATE MAY 08 JUN 26 JUL 17 AUG 21 DATE	<.2 <.2 <.2 <.2 SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155) 523 29500 7720 1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (UG/L) (34556)	53 SED. SUSP. SIEVE DIAM. FINER THAN .062 MM (70331) 67 67 FLUOR- ANTHENE TOTAL (UG/L) (34376)	2 3 ACE- NAPHTH- YLENE TOTAL (UG/L) (34200) <2 <2 <2 <2 <2 FLUOR- ENE TOTAL (UG/L) (34381	16 10 ACE- NAPHTH- ENE TOTAL (UG/L) (34205) <2 <2 <2 <2 <1 NDEN (1,2, CD PYREN TOTAL (UG/L)) (3440)	3.0 3.2 ANTHRA- CENE TOTAL (UG/L) (34220) <2 <2 <2 <2 <2 <1 <2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	1	<1 <1 <1	901 808 BENZO-A- PYRENE TYOTAL (UG/L) (34247) <3 <3 <3 <3 <3	5 15 BENZO-[GHI]- PERY- LENE TOTAL (UG/L) (34521) <3 <3 <3 <3 <7 <7 <7 2,6-DI- ETHYL ANILINE WAT FIT 0.7 U GF, REC (UG/L) (82660)	<.01 <.01 <.01 BENZO K FLUOR- AN- THENE TOTAL (UG/L) (34242) <3 <3 <3 <3 ACETO- CHLOR, WATER FLITRD REC (UG/L) (49260)	7380 5080 CHRY- SENE TOTAL (UG/L) (34320) <3 <3 <3 <ali>ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)</ali>
JUL 17 AUG 21 DATE MAY 08 JUN 26 JUL 17 AUG 21	<.2 <.2 <.2 <.2 SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155) 523 29500 7720 1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (UG/L)	SED. SUSP. SIEVE DIAM. FINER THAN .062 MM (70331) 67 FLUOR- ANTHENE TOTAL (UG/L)	2 3 ACE- NAPHTH- YLENE TOTAL (UG/L) (34200) <2 <2 <2 <2 <1 FLUOR- ENE TOTAL (UG/L) (UG/L)	16 10 ACE- NAPHTH- ENE TOTAL (UG/L) (34205) <2 <2 <2 <2 <1 TNDEN (1,2, CD PYREN TOTAL (UG/L)	3.0 3.2 ANTHRA- CENE TOTAL (UG/L) (34220) <2 <2 <2 <2 <2 <1 <1 CHOCOLOM CONTROL (UG/A) (3420) <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	1	<1 <1 <1	901 808 BENZO-A- PYRENE TOTAL (UG/L) (34247) <3 <3 <3 <3	5 15 BENZO- [GHI]- PERY- LENE TOTAL (UG/L) (34521) <3 <3 <3 <3 2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L)	<.01 <.01 <.01 SENZO K FLUOR- AN- THENE TOTAL (UG/L) (34242) <3 <3 <3 ACETO- CHLOR, WATER FLITD REC (UG/L)	7380 5080 CHRY- SENE TOTAL (UG/L) (34320) <3 <3 <3 <ali> ALA- CHLOR, WATER, DISS, REC, (UG/L)</ali>
JUL 17 AUG 21 DATE MAY 08 JUN 26 JUL 17 AUG 21 DATE	<.2 <.2 <.2 <.2 SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155) 523 29500 7720 1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (UG/L) (34556) <3	53 SED. SUSP. SIEVE DIAM. % FIMER THAN .062 MM (70331) 67 FLUOR- ANTHENE TOTAL (UG/L) (34376)	2 3 ACE- NAPHTH- YLENE TOTAL (UG/L) (34200) <2 <2 <2 <2 <2 <1 (UG/L) (34381) <2	16 10 ACE- NAPHTH- ENE TOTAL (UG/L) (34205) <2 <2 <2 <2 INDEN (1,2, CD PYREN TOTA (UG/L)) (3440 <3	3.0 3.2 ANTHRA-CENE TOTAL (UG/L) (34220) <2 <2 <2 <2 <2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	1 <1 SENZ(A) ANTHRA-CENE WATER UNFLIRD REC (UG/L) (34526) <3 <3 <3 <3 <1 TH-PHE NE THR AL TO L) (UG 96) (344	<1 <1 <1 SENZO B FLUOR-AN-THENE TOTAL (UG/L) (34230) <3 <3 <3 <3 <3 <3 <3 <3 <3 <3 <3 <3 <3	901 808 BENZO-A-PYRENE TOTAL (UG/L) (34247) <3 <3 <3 <3 <3 <3 <3 <3 <3 <43 <43 <43	5 15 BENZO-[GHI]- PERY- LENE TOTAL (UG/L) (34521) <3 <3 <3 <3 <3 <7 <7 ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660) <.003	<.01 <.01 <.01 <.01 BENZO K FLUOR- AN- THENE TOTAL (UG/L) (34242) <3 <3 <3 <3 ACETO- CHLOR, WATER FLIRD REC (UG/L) (49260) <.002	7380 5080 CHRY- SENE TOTAL (UG/L) (34320) <3 <3 <3 <3 CHRY- SENE TOTAL (UG/L) (34320) <3 <3 <3 <3 <3 <4 CHLOR, WATER, DISS, REC, (UG/L) (46342) <.002
JUL 17 AUG 21 DATE MAY 08 JUN 26 JUL 17 AUG 21 DATE	<.2 <.2 <.2 <.2 SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155) 523 29500 7720 1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (UG/L) (34556) <3 <3	53 SED. SUSP. SIEVE DIAM. FINER THAN .062 MM (70331) 67 FLUOR- ANTHENE TOTAL (UG/L) (34376) <2 <2	2 3 ACE- NAPHTH- YLENE TOTAL (UG/L) (34200) <2 <2 <2 <2 <2 <1 FLUOR- ENE TOTAL (UG/L) (34381 <2 <2	16 10 ACE- NAPHTH- ENE TOTAL (UG/L) (34205) <2 <2 <2 <2 <1 INDEN (1,2, CD PYREN TOTA (UG/L)) (3440) <3 <3	3.0 3.2 ANTHRA- CENE TOTAL (UG/L) (34220) <2 <2 <2 <2 <2 <1 <2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	1	<1 <1 <1 <1	901 808 BENZO-A- PYRENE TOTAL (UG/L) (34247) <3 <3 <3 <3 <3 <3 <3 <43 <43 <4469) <42 <42	5 15 BENZO-[GHI]- PERY- LENE TOTAL (UG/L) (34521) <3 <3 <3 <3 <3 <7 <7 CHAPTER OF TOTAL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660) <.003 <.003	<.01 <.01 <.01 BENZO K FLUOR- AN- THENE TOTAL (UG/L) (34242) <3 <3 <3 <3 <a (49260)="" (ug="" <.002="" <.002<="" aceto-="" chlor,="" fltrd="" l)="" rec="" td="" water=""><td>7380 5080 CHRY- SENE TOTAL (UG/L) (34320) <3 <3 <3 <3 <ali>CHRY- SENE TOTAL (UG/L) (34320) <3 <ali>CHLOR (WATER, DISS, REC, (UG/L) (46342) <.002 <.002</ali></ali></td>	7380 5080 CHRY- SENE TOTAL (UG/L) (34320) <3 <3 <3 <3 <ali>CHRY- SENE TOTAL (UG/L) (34320) <3 <ali>CHLOR (WATER, DISS, REC, (UG/L) (46342) <.002 <.002</ali></ali>

07105800 FOUNTAIN CREEK AT SECURITY, CO--Continued

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)
MAY 08 JUN	.021	<.001	<.002	<.002	<.003	<.020	<.004	<.004	<.002	<.002	.160
26	.023	<.001	<.002	<.002	<.003	<.010	<.004	<.004	<.002	<.007	.141
JUL 17	.005	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	.142
AUG 21	.022	<.001	<.006	<.002	<.003	<.040	<.030	<.004	<.002	<.006	.138
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)
MAY 08	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	.025	<.008	<.004
JUN 26	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	.050	.007	<.004
JUL 17	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	.052	<.002	<.004
AUG 21	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	.085	<.002	<.004
DATE	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PARA- THION, DIS- SOLVED (UG/L) (39542)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)
MAY	INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	THION, DIS- SOLVED (UG/L) (39542)	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	METON, WATER, DISS, REC (UG/L) (04037)	CHLOR, WATER, DISS, REC (UG/L) (04024)	PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)
	INATE WATER FLTRD 0.7 U GF, REC (UG/L)	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	THION, DIS- SOLVED (UG/L)	PARA- THION WAT FLT 0.7 U GF, REC (UG/L)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L)	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L)	WATER FLTRD 0.7 U GF, REC (UG/L)	METON, WATER, DISS, REC (UG/L)	CHLOR, WATER, DISS, REC (UG/L)	PANIL WATER FLTRD 0.7 U GF, REC (UG/L)	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L)
MAY 08 JUN	INATE WATER FLITRD 0.7 U GF, REC (UG/L) (82671)	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	THION, DIS- SOLVED (UG/L) (39542)	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669) <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	METON, WATER, DISS, REC (UG/L) (04037)	CHLOR, WATER, DISS, REC (UG/L) (04024)	PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)
MAY 08 JUN 26 JUL	INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671) <.004	AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)	THION, DIS- SOLVED (UG/L) (39542) <.004	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667) <.006	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669) <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLTRD 0.7 U GF, REC (UG/L) (82664) <.002	METON, WATER, DISS, REC (UG/L) (04037)	CHLOR, WATER, DISS, REC (UG/L) (04024) <.007	PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679) <.004	PARGITE WATER FLIRD 0.7 U GF, REC (UG/L) (82685) <.013
MAY 08 JUN 26 JUL 17 AUG 21	INATE WATER FLITRD 0.7 U GF, REC (UG/L) (82671) <.004 <.004	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684) <.003 <.003	THION, DIS- SOLVED (UG/L) (39542) <.004 <.004	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667) <.006 <.006	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669) <.004 <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683) .016 <.008	WATER FLIRD 0.7 U GF, REC (UG/L) (82664) <.002 <.002	METON, WATER, DISS, REC (UG/L) (04037)	CHLOR, WATER, DISS, REC (UG/L) (04024) <.007 <.007	PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679) <.004 <.004	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685) <.013 <.013
MAY 08 JUN 26 JUL 17 AUG 21	INATE WATER FLITRD 0.7 U GF, REC (UG/L) (82671) <.004 <.004 <.004 <.004 PRON-AMIDE WATER FLITRD 0.7 U GF, REC (UG/L)	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684) <.003 <.003 <.003 <.003 SI- MAZINE, WATER, DISS, REC (UG/L)	THION, DIS- SOLVED (UG/L) (39542) <.004 <.004 <.004 TEBU- THIURON WATER FLITRD 0.7 U GF, REC (UG/L)	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667) <.006 <.006 <.006 TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669) <.004 <.004 <.004 <.004 TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L)	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683) .016 <.008 <.004 <.010 THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L)	WATER FLTRD 0.7 U GF, REC (UG/L) (82664) <.002 <.002 <.002 <.002 TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L)	METON, WATER, DISS, REC (UG/L) (04037) .022 .022 .040 .094 TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L)	CHLOR, WATER, DISS, REC (UG/L) (04024) <.007 <.007 <.007 <.007 ALPHA BHC DISSOLVED (UG/L)	PANIL WATER FLIRD 0.7 U GF, REC (UG/L) (82679) <.004 <.004 <.004 <.004 PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L)	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685) <.013 <.013 <.013 <.013
MAY 08 JUN 26 17 AUG 21 DATE MAY 08 JUN 26	INATE WATER FLITRD 0.7 U GF, REC (UG/L) (82671) <.004 <.004 <.004 <.004 PRON- AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82676)	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684) <.003 <.003 <.003 <.003 SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	THION, DIS- SOLVED (UG/L) (39542) <.004 <.004 <.004 TEBU- THIURON WATER FLITED 0.7 U GF, REC (UG/L) (82670)	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667) <.006 <.006 <.006 TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669) <.004 <.004 <.004 <.004 TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683) .016 <.008 <.004 <.010 THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	WATER FLITRD 0.7 U GF, REC (UG/L) (82664) <.002 <.002 <.002 <.002 TRIAL- LATE WATER FLITRD 0.7 U GF, REC (UG/L) (82678)	METON, WATER, DISS, REC (UG/L) (04037) .022 .022 .040 .094 TRI-FLUR-ALIN WAT FLIT 0.7 U GF, REC (UG/L) (82661)	CHLOR, WATER, DISS, REC (UG/L) (04024) <.007 <.007 <.007 <.007 ALPHA BHC DISSOLVED (UG/L) (34253)	PANIL WATER FILTRD 0.7 U GF, REC (UG/L) (82679) <.004 <.004 <.004 <.004 PER- METHRIN CIS WAT FIT 0.7 U GF, REC (UG/L) (82687)	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685) <.013 <.013 <.013 <.013 P,P' DDE DISSOLV (UG/L) (34653)
MAY	INATE WATER FLITRD 0.7 U GF, REC (UG/L) (82671) <.004 <.004 <.004 <.004 PRON- AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82676) <.040	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684) <.003 <.003 <.003 <.003 SI- MAZINE, WATER, DISS, REC (UG/L) (04035) <.005	THION, DIS- SOLVED (UG/L) (39542) <.004 <.004 <.004 TEBU- THIURON WATER FLIRD 0.7 U GF, REC (UG/L) (82670) <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667) <.006 <.006 <.006 TER- BACIL WATER FLIRD 0.7 U GF, REC (UG/L) (82665)	ULATE WATER FILIRD 0.7 U GF, REC (UG/L) (82669) <.004 <.004 <.004 TER- BUFOS WATER FLIRD 0.7 U GF, REC (UG/L) (82675) <.013	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683) .016 <.008 <.004 <.010 THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681) <.002	WATER FLITRD 0.7 U GF, REC (UG/L) (82664) <.002 <.002 <.002 TRIAL- LATE WATER FLITRD 0.7 U GF, REC (UG/L) (82678) <.001	METON, WATER, DISS, REC (UG/L) (04037) .022 .022 .040 .094 TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	CHLOR, WATER, DISS, REC (UG/L) (04024) <.007 <.007 <.007 <.007 ALPHA BHC DISSOUVED (UG/L) (34253) <.002	PANIL WATER FLIRD 0.7 U GF, REC (UG/L) (82679) <.004 <.004 <.004 <.004 PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687) <.005	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685) <.013 <.013 <.013 <.013 <.013 <.013 <.013 <.016

07105800 FOUNTAIN CREEK AT SECURITY, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT					JUN				
01	1345	251	763	19.0	02	1450	165	690	21.5
NOV					27	1030	236	568	15.0
02	1445	216	808	12.5	JUL				
DEC					06	1045	70	912	22.5
07	1350	230	822	10.0	18	1315	208	710	26.0
JAN					AUG				
06	1215	109	864	6.0	03	1330	109	820	25.0
FEB					10	1130	70	929	24.0
03	1050	116	877	5.0	23	1145	134	730	22.5
MAR					24	1200	146	729	23.0
01	1225	169	791	10.0	29	1240	394	483	22.5
APR					SEP				
07	1055	215	627	8.5	07	1325	139	838	22.5
MAY					15	1335	128	858	24.0
02	1255	196	602	16.0					
10	1235	258	553	17.5					
24	1030	102	743	17.5					

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

ATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
	1345	251	19.0	124	84	
	1445	216	12.5	255	149	
	1430	187	8.5	87	44	
	1215	109	6.0	78	23	
	0900	120	6.5	74	24	
	1030 0845	216 170	8.5 9.5	243 94	142 43	
• •	1145	239	13.0	101	11/	
· ·	1300 1030	243 102	17.5 17.5	347 37	228 10	
	1000 0945 1330	86 88 219	19.0 17.0 17.0	16 39 884	3.7 9.3 523	
	1045 1830 1315	70 1480 208	22.5 18.5 26.0	32 7380 511	6.0 29500 287	 67
	1330 1215	109 120	25.0 25.5	154 179	45 58	
· · · ·	2200 1130 1200	563 142 427	19.0 22.5 22.5	5080 320 832	7720 123 959	
	1400	125	24.0	156	53	
		1345 1445 1430 1215 0900 1030 145 1300 1030 1030 1030 1330 1330 1330 1330 1215 1330 1330 1215	CHARGE, INST. CUBIC CUBIC FEET PER SECOND (00061) 1345 251 1445 216 1430 187 1215 109 0900 120 1030 216 0845 170 1145 239 1300 243 1030 102 1000 86 0945 88 1330 219 1300 1480 1315 208 1330 109 1315 208 1330 109 1215 120 1215 120 1215 120 1310 142 1200 427	CHARGE, INST. CUBIC CUBIC TEMPER-ATTE ATE TIME TIME PER WATER SECOND (DEG C) (00061) 1345 251 19.0 1445 216 12.5 1430 187 8.5 1215 109 6.0 0900 120 6.5 1030 216 8.5 0845 170 9.5 1145 239 13.0 1445 239 13.0 1300 243 17.5 1030 102 17.5 1030 102 17.5 1030 102 17.5 1030 102 17.5 1030 102 17.5 1030 102 17.5 1030 102 17.5 1030 102 17.5 1030 102 17.5 1030 102 17.5 1030 102 17.5 1030 102 17.5 1045 1045 1045 1048 104	CHARGE, INST. CUBIC TEMPER- PER WATER PENDED 1345 251 19.0 124 1445 216 12.5 255 1430 187 8.5 87 1215 109 6.0 78 0900 120 6.5 74 1030 216 8.5 243 0845 170 9.5 94 1145 239 13.0 181 1300 243 17.5 347 1030 102 17.5 37 1000 86 19.0 16 0945 88 17.0 39 1000 86 19.0 16 0945 88 17.0 39 1330 190 25.5 32 1830 1480 18.5 7380 1045 70 22.5 32 1830 1480 18.5 7380 1315 208 26.0 511 1330 109 25.0 154 1330 109 25.0 154 1330 109 25.0 154 1330 109 25.0 154 1215 120 25.5 179 2200 563 19.0 5080 1130 142 22.5 320 1200 427 22.5 832	CHARGE, INST. CUBIC TEMPER- MENT, DIS-CHARGE, FEET ATURE SUS- SUS-SUS-SUS-SUS-SUS-SUS-SUS-SUS-SU

07105800 FOUNTAIN CREEK AT SECURITY, CO--Continued

	DEDIN			DED (TONS/DAY)					
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		D	ECEMBER	
1	119	119	71						
2	91	91	52						
3 4	92 92	92 92	50 47						
5	113	113	57						
6			e61						
7	2260	2260	5500						
8	3300	3300	2760						
9 10	1460 606	1460 606	1280 487						
11 12	 193	 193	e194 111						
13	146	146	80						
14	129	129	72						
15	184	184	108						
16	220	220	158						
17	143	143	87						
18 19	112	112	69 e92						
20	175	175	104						
21 22	211	211	e121 121						
23	202	202	116						
24	149	149	86						
25			e84						
26			e90						
27			e99						
28 29			e110 e117						
30			e118						
31			e127						
TOTAL	9997		12629	0		0	0		0
IOIAL	9991		12029	U		U	U		U
DAY	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)			MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)
DAY		CONCEN- TRATION (MG/L)		DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE		CONCEN- TRATION (MG/L)	
DAY	DISCHARGE	CONCEN- TRATION	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION	DISCHARGE	DISCHARGE	CONCEN- TRATION	DISCHARGE
1	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2	DISCHARGE (CFS)	CONCENTRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3	DISCHARGE (CFS)	CONCENTRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2	DISCHARGE (CFS)	CONCENTRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5	DISCHARGE (CFS)	CONCENTRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5	DISCHARGE (CFS)	CONCENTRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
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 21 21 21 21 21 21 21 21 21 21 21 21 21	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)

07105800 FOUNTAIN CREEK AT SECURITY, CO--Continued

	SEDIM		,	DED (IONS/DAI)					
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	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	 223 	 223 	e125 e301 e188 125 e116	107 89 122 102	107 89 122 102	54 43 58 46 e32	166 110 	166 110 	53 39 e25 e16 e11
6 7 8 9 10	214 256 327 338	214 256 327 338	129 162 213 220 e195	60 63 2290 1290 359	60 63 2290 1290 359	25 25 4870 1310 228	28 175	28 175	e7.6 9.3 e21 e37 47
11 12 13 14 15	243 291 356	243 291 356	e171 157 181 221 e356	220 233 77 91	220 233 77 91	111 106 36 43 e58	142 174 143 119	142 174 143 119	39 46 36 e29 29
16 17 18 19 20	498 157 155 157	498 157 155 157	283 81 79 82 e91	143 248 288 239	143 248 288 239	60 139 153 135 e99	246 843 1170 98	246 843 1170 98	61 310 502 e131 28
21 22 23 24 25	224 257 278 467 200	224 257 278 467 200	114 129 158 267 111	145 199 146 176 473	145 199 146 176 473	69 80 50 91 367	148 97 99 337	148 97 99 337	43 27 28 e52 96
26 27 28 29 30 31	142 102 93 169	142 102 93 169	75 51 e38 45 93	76 39 38 90 157	76 39 38 90 157	33 16 14 31 e49 53	3100 1790 427	3100 1790 427	4950 1280 e577 e309 169
TOTAL	5147		4557	7560		8484	9412		9007.9
DAY	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)
DAY	DISCHARGE	CONCEN- TRATION	DISCHARGE	DISCHARGE	CONCEN- TRATION	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION	DISCHARGE
DAY 1 2 3 4 5	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE
1 2 3 4	DISCHARGE (CFS) 157 792 134	CONCENTRATION (MG/L) JULY 157 792 134	DISCHARGE (TONS/DAY) 51 e78 526 42	DISCHARGE (CFS) 137 108 138 234	CONCENTRATION (MG/L) AUGUST 137 108 138 234	DISCHARGE (TONS/DAY) 31 25 38 78	DISCHARGE (CFS) S	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY) el08 e84 e76 e75
1 2 3 4 5 6 7 8 9	157 792 134 -77 37 42	CONCEN- TRATION (MG/L) JULY 157 792 134 77 37 42	DISCHARGE (TONS/DAY) 51 e78 526 42 21 8.8 e9.1 11 e16	DISCHARGE (CFS) 137 108 138 234 453 1530 347 123 111	CONCEN- TRATION (MG/L) AUGUST 137 108 138 234 453 1530 347 123 111	DISCHARGE (TONS/DAY) 31 25 38 78 155 2240 104 32 26 24 51 126 e141 155	DISCHARGE (CFS) S 217 129 92 122	CONCENTRATION (MG/L) EPTEMBER 217 129 92 122	DISCHARGE (TONS/DAY) e108 e84 e76 e75 65 33 e25 26 37 44 e44 e42 e45 e43
1 2 3 4 5 6 7 8 9 10 11 12 13 14	157 792 134 77 37 42 99	CONCEN- TRATION (MG/L) JULY 157 792 134 77 37 42 99 167 79	DISCHARGE (TONS/DAY) 51 e78 526 42 21 8.8 e9.1 11 e16 26 e37 50 20 e45	DISCHARGE (CFS) 137 108 138 234 453 1530 347 123 111 99 198 445 424	CONCEN- TRATION (MG/L) AUGUST 137 108 234 453 1530 347 123 111 99 198 445 	DISCHARGE (TONS/DAY) 31 25 38 78 155 2240 104 32 26 24 51 126 e141 155 43	DISCHARGE (CFS) S 217 129 92 122 154	CONCENTRATION (MG/L) EPTEMBER 217 129 92 122 154	DISCHARGE (TONS/DAY) e108 e84 e76 e75 65 33 e25 26 37 44 e44 e442 e45 e43 31
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS) 157 792 134 -77 37 42 99 167 79 553 1670 2930 671 146	CONCEN- TRATION (MG/L) JULY 157 792 134 77 37 42 99 167 79 553 1670 2930 671 146	DISCHARGE (TONS/DAY) 51 e78 526 42 21 8.8 e9.1 11 e16 26 e37 50 20 e45 166 734 9120 438	DISCHARGE (CFS) 137 108 138 234 453 1530 347 123 111 99 198 445 424 146 642 601 701 142	CONCENTRATION (MG/L) AUGUST 137 108 138 234 453 1530 347 123 111 99 198 445 424 146 642 601 701 142	DISCHARGE (TONS/DAY) 31 25 38 78 155 2240 104 32 26 24 51 126 e141 155 43 308 419 374 35	DISCHARGE (CFS) S 217 129 92 122 154 124 171	CONCEN- TRATION (MG/L) EPTEMBER11- 217 129 92 122 154 124 171 124	DISCHARGE (TONS/DAY) e108 e84 e76 e75 e55 33 e25 26 37 44 e44 e42 e45 e43 31 46 e67 e69 e70 e73 e80 e98
1 2 3 4 4 5 6 7 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	DISCHARGE (CFS) 157 792 134 77 37 99 167 2930 671 146 118 103 137 108 229 332 895 557 116	CONCEN- TRATION (MG/L) JULY 157 792 134 77 37 42 99 167 79 553 1670 2930 671 146 118 103 137 108 229 332 895 557 116	DISCHARGE (TONS/DAY) 51 e78 526 42 21 8.8 e9.1 11 e16 26 e37 50 20 e45 166 734 9120 438 47 36 31 34 25 e30 58 87 530 286 e102 29	DISCHARGE (CFS) 137 108 138 138 234 453 1530 347 123 111 99 198 445 424 146 642 601 701 142 134 1230 1670 1050 861 1480 2230 1070 1240 366	CONCENTRATION (MG/L) AUGUST 137 108 138 234 453 1530 347 123 111 99 198 445 424 146 642 601 701 142 134 1230 1670 1050 861 1480 2230 1070 1240 366	DISCHARGE (TONS/DAY) 31 25 38 78 155 2240 104 32 26 24 51 126 e141 155 43 308 419 374 35 32 2130 808 1990 353 2710 2250 485 e6860 3130 151	DISCHARGE (CFS) S 217 129 92 122 154 124 171 557 637 176 80 147 213 220	CONCENTRATION (MG/L) EPTEMBER 217 129 217 129 124 171 124 172 172 172 172 172 172 172 172 172 172	DISCHARGE (TONS/DAY) e108 e84 e76 e75 e65 33 e25 26 37 44 e44 e42 e45 e43 31 46 e67 e69 e70 e73 e80 e98 460 390 44 17 e21 30 48 53
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	DISCHARGE (CFS) 157 792 134 77 37 99 167 79 553 1670 2930 671 146 118 103 137 108 229 332 895 557 116 89	CONCEN- TRATION (MG/L) JULY 157 792 134 -77 37 42 99 167 79 553 1670 2930 671 146 118 103 137 108 137 108 2930 671 2930 671 2930 671 229	DISCHARGE (TONS/DAY) 51 e78 526 42 21 8.8 e9.1 11 e16 26 e37 50 20 e45 166 734 9120 438 47 36 31 34 25 e30 58 87 530 286 e102 29 22	DISCHARGE (CFS) 137 108 138 138 234 453 1530 347 123 111 99 198 445 424 146 642 601 701 142 134 1230 1670 1050 861 1480 2230 1070 1240	CONCENTRATION (MG/L) AUGUST 137 108 138 234 453 1530 347 123 111 99 198 445 4244 146 642 601 701 142 134 1230 1670 1050 861 1480 2230 1070 1240	DISCHARGE (TONS/DAY) 31 25 38 78 155 2240 104 32 26 24 51 126 e141 155 43 308 419 374 35 32 2130 808 1990 353 2710 2250 485 e6860 3130	DISCHARGE (CFS) S 217 129 92 122 154 124 171 124 171 557 637 176 80 147 213	CONCENTRATION (MG/L) EPTEMBER 17 129 -92 122 154 124 171 171 124 171 174 171 176 80 147 213	DISCHARGE (TONS/DAY) e108 e84 e76 e75 e5 33 e25 26 37 44 e44 e42 e45 e43 31 46 e67 e69 e70 e73 e80 e98 460 390 44 17 e21 30 48

e Estimated.

07105900 JIMMY CAMP CREEK AT FOUNTAIN, CO

LOCATION.--Lat $38^\circ41^\circ04^\circ$, long $104^\circ41^\circ17^\circ$, in $NW^1/_4SE^1/_4$ 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 recorder with 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 40 ft³/s, 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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 17, 1965, reached an estimated discharge of 124,000 ft³/s, gage height, unknown.

		DISCHAR	GE, CUBIO	C FEET PER		NATER YE MEAN VA	AR OCTOBER LUES	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.5 2.4 2.6 2.5 2.4	2.3 2.1 2.2 2.1 2.1	2.6 2.5 2.6 2.7 e2.6	1.7	e1.7 e1.9 1.6 1.6	1.7 1.7 1.6 1.6	1.5 1.9 2.1 2.0 1.9	2.7 2.6 2.6 2.7 2.9	1.7 1.6 1.6 1.6	2.0 2.0 1.8 1.7 1.6	1.4 1.3 1.3 1.3	1.6 1.6 1.6 1.6
6 7 8 9 10	2.6 3.3 4.1 2.4 2.4	2.1 2.1 2.1 2.1 2.2	2.8 2.7 2.7 e2.7 2.9	1.7 e1.7 1.8 1.8	1.7 1.7 1.8 1.8	1.7 1.8 1.8 1.9 2.0	1.8 1.9 1.9 1.9	3.3 3.3 4.5 4.2 3.6	1.6 1.7 1.6 1.7	1.5 1.5 1.4 1.4	1.7 1.4 1.5 1.4	1.7 1.9 1.9 1.7
11 12 13 14 15	2.2 2.0 2.1 2.1 2.0	2.2 2.2 2.2 2.2 2.2	2.8 2.1 2.4 2.3 e2.4	e1.6 1.7 1.6 e1.6 1.6	1.9 1.8 1.8 1.7	2.2 2.3 2.3 2.3 e2.1	2.0 2.0 1.8 1.9 2.0	3.3 3.2 3.7 2.6 4.2	1.7 1.8 1.9 2.0 1.9	1.3 1.3 1.7 1.4	2.2 1.9 1.9 2.8 3.3	1.7 1.7 1.7 1.6 1.7
16 17 18 19 20	2.0 2.1 2.3 2.3 2.4									1.4 2.2 1.5 1.4	2.9 4.2 4.8 3.0 2.6	1.7 1.7 1.7 1.6 1.7
23 24 25	2.4 2.5 2.9 2.2 2.4						2.0 2.3 2.5 2.4 2.4			2.0 2.3 2.2 2.2 2.1	3.7 3.3 2.9 3.2 4.7	1.8 1.8 2.2 2.0 1.8
26 27 28 29 30 31	2.3 2.1 2.1 2.2 2.3 2.5	2.6 2.7 2.7 2.7 2.6	1.8 1.7 1.6 1.6 1.6 e1.6	1.9 1.9 1.8 e1.7 e1.6 e1.6	1.7 1.7 1.7 1.7	1.8 1.8 1.7 1.7 1.7	2.6 2.6 2.9 2.8 2.9	1.9 1.7 1.6 1.6 1.6	2.7 2.3 2.2 2.2 2.1	1.8 1.8 2.0 1.9 1.9	4.0 4.1 4.9 17 2.0 1.4	2.2 2.4 2.0 2.1 2.1
TOTAL MEAN MAX MIN AC-FT	4.1 2.0 148	134	142	105	97	116	68.8 2.29 5.4 1.5 136	160	110	53.2 1.72 2.3 1.3 106	95.1 3.07 17 1.3 189	54.2 1.81 2.4 1.6 108
							BY WATER					
MEAN MAX (WY) MIN (WY)	2.09 3.55 1985 1.20 1979	2.26 6.49 1982 1.58 1984	1.79 3.17 1995 .87 1988	1.68 2.74 1986 1.01 1988	1.61 2.39 1977 .79 1990	1.74 3.54 1980 1.05 1990	2.06 9.33 1999 .56 1990	2.65 10.1 1995 .91 1986	3.69 27.8 1995 .98 1989	3.80 27.9 1985 .96 1989	4.74 13.4 1984 .84 1993	1.84 5.12 1994 .68 1990
SUMMARY	STATISTI	CS	FOR 1	1999 CALEN	DAR YEAR	F	OR 2000 WA	TER YEAR		WATER YEA	ARS 1976	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME DAILY MEA SEVEN-DAY ANEOUS PE	AN AN N MINIMUM AK FLOW AK STAGE C-FT)					781.7 2.14 17 1.3 1.4 147 b5.83 1550 2.7 1.9 1.6	Aug 29 Jul 10 Jul 6 Aug 29 Aug 29		2.50 5.12 1.20 700 .00 .07 a4810 b9.51 1810 1.7 .98		1995 1990 28 1985 12 1990 10 1990 3 1994 3 1994

a From contracted-opening measurement of peak flow. b From floodmarks.

07105945 ROCK CREEK ABOVE FORT CARSON RESERVATION, CO

LOCATION.--Lat $38^{\circ}42^{\circ}27^{\circ}$, long $104^{\circ}50^{\circ}46^{\circ}$, in $NW^{1}/_{4}NW^{1}/_{4}$ sec.36, T.15 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on right bank 20 ft 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 Fort Carson Military Reservation (revised).

DRAINAGE AREA.--6.79 mi².

PERIOD OF RECORD.--May 1978 to current year. Water-quality data available, May 1978 to September 1979.

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. Prior to Oct. 10, 1997, at site 50 feet downstream at datum 0.78 ft lower.

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 "Supplamental Water-Quality Data for Gaging Stations" section of this report.

	DISCHA	RGE, CUBI		R SECOND, DAILY		AR OCTOBER	R 1999 TO	SEPTEMBE	R 2000		
DAY OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 1.0 2 1.0 3 1.0 4 1.0 5 .93	.74 .79 .78 .74	.90 .88 .87 .81	.58 .61 .60 .63	e.60 e.60 e.62 e.60	.70 .73 .72 .74 .74	2.1 1.9 1.7 2.2 5.5	2.3 2.0 1.9 1.7	.55 .58 .57 .54 .55	.73 .64 .63 .51 .44	.09 .09 .08 .08	.49 .39 .35 .31
6 .85 7 1.3 8 2.1 9 1.5 10 1.2	.69 .68 .67 .61	.87 .82 .83 .80	.62 .73 .54 .49	.64 .65 .68 .71	.74 .84 .98 .87	8.8 8.4 6.7 5.8 5.7	1.4 1.3 2.6 2.5 2.0	.55 .57 .49 .44 .40	.39 .30 .24 .26	.13 .23 .15 .13	.25 .23 .22 .20
11 1.1 12 1.0 13 .87 14 .85 15 .78	.57 .57 .56 .54	.79 .75 .74 .65	.58 .53 .51 .55	.70 .69 .70 .68 .74	.75 .77 .72 .72 .79	5.4 4.6 4.3 4.4 4.6	1.7 1.5 1.4 1.4	.39 .40 .35 .35	.23 .23 .23 .20	.11 .11 .09 .12 .13	.16 .16 .16 .14
16 .96 17 1.0 18 1.1 19 1.1 20 1.1		.64 .62 .61 .61	.54 .61 .61 .67	.73 .74 .71 .65 .71	.73 .97 1.2 1.0 1.2	4.1 3.7 3.7 3.8 3.6	1.2 1.2 1.2 1.2	.30 .39 .40 .34	.17 .21 .21 .18 .17	.13 1.8 4.2 1.5	.13 .12 .12 .11 .12
21 .99 22 .93 23 .89 24 .87 25 .87	.62 .80 .81 .78					3.5 3.4 3.4 3.6 3.4					.10 .10 .22 .30
26 .85 27 .83 28 .81 29 .81 30 .74 31 .75	.86 .91 .88 .87 .88	.51 .52 .53 .56 .57	.62 .67 .55 e.60 e.56 e.61	.67 .71 .68 .72	2.2 2.3 2.4 2.3 2.2 1.9	3.2 2.9 2.8 2.6 2.7	.90 .80 .72 .68 .61	1.0 1.7 1.6 1.3 .94	.12 .12 .12 .12 .11	.44 .42 .42 1.3 .68 .53	.26 .21 .18 .16 .15
TOTAL 31.08 MEAN 1.00 MAX 2.1 MIN .74 AC-FT 62	20.72 .69 .91 .51 41					122.5 4.08 8.8 1.7 243			7.89 .25	17.01 .55 4.2 .08 34	6.18 .21 .49 .10 12
STATISTICS OF 1	MONTHLY ME				- 2000,	BY WATER	YEAR (WY				
MEAN 1.56 MAX 20.7 (WY) 1985 MIN .000 (WY) 1979	1.03 10.7 1985 .028 1979	.52 2.25 1985 .051 1979		.50 1.33 1985 .12 1979	1.02 2.56 1998 .29 1981	5.05 20.7 1999 .34 1981	11.4 39.1 1995 .41 1996	5.54 32.7 1997 .31 1996	1.95 7.23 1985 .010 1978	3.42 18.1 1999 .000 1978	1.31 7.75 1982 .000 1978
SUMMARY STATIS	TICS	FOR	1999 CALE	NDAR YEAR	F	OR 2000 WA	ATER YEAR	WATER Y	EARS 1978	- 2000	
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL LOWEST ANNUAL LOWEST DAILLY I LOWEST DAILLY I ANNUAL SEVEN-D INSTANTANEOUS INSTANTANEOUS ANNUAL RUNOFF 10 PERCENT EXC. 50 PERCENT EXC.	MEAN MEAN EAN AY MINIMUM PEAK FLOW PEAK STAGE (AC-FT) EEDS EEDS			Apr 30 1 Jan 1 1 Feb 26		.09 9.8	Apr 6 3 Aug 3 9 Jul 30 Apr 6 5 Apr 6		2.8' 7.7' .30 397 a.00 b770 c9.7' 2080 6.0 .60	0 6 Apr 3 0 Jul 0 Jul Jun 1 1 Jun 1	1985 1989 30 1999 6 1978 6 1978 10 1997

e Estimated.

Estimated.
 No flow many days.
 From rating curve extended above 133 ft³/s on basis of width-contraction measurement of peak flow at gage height 5.28 ft.
 From floodmark, site and datum then in use.

07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO

LOCATION.--Lat $38^{\circ}36^{\circ}06^{\circ}$, long $104^{\circ}40^{\circ}11^{\circ}$, in $SW^{1}/_{4}NE^{1}/_{4}$ 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

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.--No estimated daily discharges. Records fair except for 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.

	-	DISCHA	RGE, CUBI	C FEET PE		WATER YE MEAN V		R 1999 TO	SEPTEMBI	ER 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	241	249	243	201	171	193	210	218	115	109	62	222
2	239	252	234	197	182	197	241	157	120	97	69	174
3	259	250	256	194	234	204	219	167	107	229	84	164
4	259	251	211	166	238	207	197	169	95	140	87	159
5	256	241	223	192	228	202	219	171	95	92	128	154
6	209	241	252	196	213	213	227	161	103	73	211	123
7	462	235	249	188	207	218	222	155	91	74	161	114
8	401	260	249	213	199	346	230	706	84	79	79	115
9	311	260	239	204	196	228	232	396	89	77	65	112
10	275	229	243	206	199	193	243	241	87	75	82	111
11 12 13 14 15	267 261 261 247 230	242 234 245 236 251	248 238 251 249 225	221 218 203 217 210	204 200 198 199	188 202 201 173 213	238 231 226 218 236	192 186 185 146 147	94 95 84 89 81	71 85 69 64 78	85 97 74 98 88	109 103 105 122 118
16	261	253	245	201	193	409	271	108	93	136	100	116
17	258	247	252	201	199	245	225	119	152	300	229	113
18	257	237	245	199	217	285	180	216	173	180	404	116
19	295	234	260	202	214	185	186	174	157	153	192	109
20	248	247	224	258	210	199	189	159	129	148	114	107
21	247	254	216	261	211	182	191	143	112	117	104	110
22	237	388	214	260	204	234	193	120	108	74	353	142
23	260	295	213	233	197	254	203	88	104	63	155	141
24	263	251	219	234	191	209	271	120	105	65	365	279
25	278	235	207	235	173	203	220	226	100	76	250	131
26 27 28 29 30 31	243 239 256 251 231 239	278 279 246 243 233	202 198 206 222 223 197	245 283 227 195 187 182	180 189 192 197 	201 203 200 203 224 322	198 193 181 185 241	202 146 112 113 130 116	557 501 256 229 162	74 110 109 141 59 58	696 269 430 1170 314 259	112 77 71 72 61
TOTAL	8241	7596	7153	6629	5826	6936	6516	5689	4367	3275	6874	3762
MEAN	266	253	231	214	201	224	217	184	146	106	222	125
MAX	462	388	260	283	238	409	271	706	557	300	1170	279
MIN	209	229	197	166	171	173	180	88	81	58	62	61
AC-FT	16350	15070	14190	13150	11560	13760	12920	11280	8660	6500	13630	7460
MEAN	70.3	84.7	71.4	71.8	75.6	85.5	132	238	180	113	146	70.4
MAX	266	253	231	214	201	224	787	1602	1080	432	713	242
(WY)	2000	2000	2000	2000	2000	2000	1999	1999	1997	1995	1999	1999
MIN	3.70	10.0	5.14	6.99	6.07	6.39	4.30	9.78	4.50	3.47	3.15	1.31
(WY)	1954	1940	1953	1952	1941	1941	1954	1950	1953	1952	1954	1939
ANNUAL ANNUAL HIGHEST	MEAN CANNUAL I	MEAN	FOR	1999 CALE 166913 457	NDAR YEAR	E	72864 199	ATER YEAR		112 430	ARS 1939	1999
HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC	TANEOUS PI	EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		13200 86 91 331100 1040 243 117	Apr 30 Mar 27 Mar 26		1170 58 74 5220 7.6 144500 261 202 89	Aug 29 Jul 31 Jul 9 Jul 17 2 Jul 17		10.3 13200 a.000 .27 b22100 c9.19 80800 231 61 7.4) Sep 2 7 Jul 1 May 2	1953 30 1999 24 1939 18 1939 28 1940 28 1940

a Also occurred Sep 30, 1939.

From contracted-opening and slope-area measurement of peak flow. At different datum, maximum gage height, 12.06 ft, Apr 30, 1999.

07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- November 1987 to current year.

PERIOD OF DAILY RECORD.--DISSOLVED OXYGEN: November 1987 to current year. pH: November 1987 to current year. SPECIFIC CONDUCTANCE: November 1987 to current year. WATER TEMPERATURE: November 1987 to current year.

INSTRUMENTATION. -- Water-quality monitor with satellite telemetry.

REMARKS.-- Records for daily dissolved oxygen are poor. Records for daily pH are fair except for Dec. 8, 25, 28, Mar. 17-19, and June 30 to July 13, which are poor. Records for daily specific conductance are fair. Records for daily water temperature are good except for Dec. 10 to Jan. 26, which are fair and Nov. 26, Feb. 19, 21, and May 16 to Aug. 24, which are poor. Daily data that are not published are either missing or of unacceptable quality.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

EXTREMES FOR PERIOD OF RECORD.-

DISSOLVED OXYGEN: Maximum, 12.9 mg/L, Mar. 15, 2000; minimum, 3.7 mg/L, July 9, 1993.
pH: Maximum, 8.7 units, Dec. 9-10, 1999; minimum, 6.5 units, Oct. 26, 28-29, 31, 1995.
SPECIFIC CONDUCTANCE: Maximum, 1,660 microsiemens, Aug. 27-28, 1996; minimum, 141 microsiemens, Aug. 8, 1991.
WATER TEMPERATURE: Maximum, 31.8°C, July 9, 1990; minimum, 0.0°C, many days.

EXTREMES FOR CURRENT YEAR. --

TREMES FOR CURRENT YEAR.-DISSOLVED OXYGEN: Maximum, 12.9 mg/L, Mar. 15; minimum, 4.3 mg/L, Aug. 20.
pH: Maximum, 8.7 units, Dec. 9-10; minimum, 7.7 units, May 8, June 26-27.
SPECIFIC CONDUCTANCE: Maximum, 1330 microsiemens, Feb. 19; minimum, 304 microsiemens, Aug. 29.
WATER TEMPERATURE: Maximum, 31.6° C, July 15; minimum, 0.0° C, many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

			***************************************	201111111	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DIC 12111 0	OTODDIC TO	,, 10 001	LLIDLI LO			
DATE	TIME	DIS- CHARGE INST. CUBIC FEET PER SECON (00061	C, SPE- CIFIC C CON- DUCT- ANCE ID (US/CM	FIELD (STAND ARD 1) UNITS	TEMPE ATUR WATE () (DEG	E DIS R SOLV C) (MG/	ED 5 DA L) (MG/	D, FORM FECAI - 0.7 , UM-MI Y (COLS L) 100 MI	, CALCIU DIS- F SOLVI ./ (MG/I L) AS CA	DIS- ED SOLVE L (MG/I A) AS MO	M, SULFAT DIS- SOLVE (MG/L AS SO4	DIS- ED SOLVED (MG/L AS F)
OCT 18 DEC	1400	238	905	8.3	11.5	8.6	1.5	210	79.3	25.6	250	1.8
13	1300	186	998	8.2	5.0	10.3	1.5		86.0	28.0	250	1.8
FEB 14	1230	152	971	8.2	10.5	8.7	3.1	K22	80.1	26.7	260	1.8
APR 17	1300	180	741	8.4	16.0	8.0	1.7	K28	61.9	20.0	200	2.0
JUN 19	1215	102	949	8.2	24.0	6.5	2.1	480	78.6	25.4	240	1.8
AUG 14	1045	91	1050	8.1	22.5	6.9	2.9	E960	80.7	27.8	290	1.6
DAT	'E	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	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)
OCT 18 DEC		3.30	.030	.500	.300	3	1.5	180	180	.2	<.1	2
13 FEB		3.70	.170	.600	.500	3	1.6	192	196	.2	.1	2
14		4.50	.400	.400	.200	3	1.1	213	206	.3	.1	1
APR 17		3.00	.030	.600	.400	3	1.8	158	158	.3	.1	3
JUN 19		3.47	.110	.953	.750	4	3.3	213	213	.3	.1	1
AUG 14		3.00	<.020	.618	.270	4	2.6	221	218	. 4	.1	3

07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CHRO MIUM DIS- SOLV (UG/ AS C	RECOVER ED ERABLI L (UG/L) R) AS CU	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)
OCT 18	1.6	6	2	3650	<10	5	<1	136	11	<.3	<.2
DEC 13	<1.0		3	1710	<10	6	<1	82	16		
FEB 14	<1.0		3	1780	<10	2	<1	88	24		<.1
APR 17	<1.0		3			5	<1	102	6	==	<.1
JUN 19	<1.0		4	1810	<10	4	<1	86	3	<.3	<.2
AUG 14	1.6		5	4260	<10	7	<1	160	3	<.3	<.2
11	1.0	12	3	1200	110	,		100	3	1.5	1.2
DATE	NICKE TOTA RECO ERAB (UG/ AS N	L NICKEL V- DIS- LE SOLVE L (UG/L I) AS NI	NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
OCT 18	8	4	6	6.4	<1	<1	39	16	<.01		
DEC 13	7	6	9	8.4	<1	<1	36	25	<.01	179	90
FEB 14	8	5	10	7.7	<1	<1	40	29	<.01	115	47
APR 17	6	5	7	6.2	<1	<1	36	19	<.01	181	88
JUN 19	8	7	8	9.0	1	<1	34	22	<.01	174	48
AUG 14	11	6	12	8.5	<1	<1	44	<3	<.01	198	49
			DISSOLVED								
DAY	MAX		EAN I	IM XAN		MAX		MEAN	MAX		MEAN
		OCTOBER		NOVEMB			DECEMBER			JANUAR	
1 2	10.2 10.6	8.4	9.5 1	1.2 8. 2.5 9.	1 10.7				11.0 11.5		10.1 10.3
3 4 5	10.6 11.1 10.5	8.1		l.6 9. l.6 8.							
6 7	9.9	0.0	9.3 1	1.1 8.					11.8 11.8		11.2 10.9
8		7.8	9.0 1	1.6 8.	7 10.0 4 10.1				11.8 11.8 11.7	9.9 9.4 9.7	10.9
	10.6 10.4	7.8 7.9 7.7	9.0 1: 9.1 1: 9.2 1:	1.6 8. 1.4 8. 0.7 8.	7 10.0 4 10.1 7 10.0 3 9.6	 	 		11.8 11.8 11.7 12.1 11.7	9.9 9.4 9.7 9.4 9.2	10.9 11.0 11.1 10.6
9 10	10.6	7.8 7.9 7.7 7.4	9.0 1: 9.1 1: 9.2 1: 3.9 1:	1.6 8. 1.4 8.	7 10.0 4 10.1 7 10.0 3 9.6 5 9.5	11.3	 7 9.2		11.8 11.8 11.7 12.1	9.9 9.4 9.7 9.4 9.2 9.5	10.9 11.0 11.1
9	10.6 10.4 10.1	7.8 7.9 7.7 7.4 6.8 7.3 6.9 7.7 7.2	9.0 1: 9.1 1: 9.2 1: 3.9 1: 3.6 1: 3.6 1: 3.6 1: 3.6 1: 3.7 1:	1.6 8. 1.4 8. 0.7 8. 0.4 8.	7 10.0 4 10.1 7 10.0 3 9.6 5 9.5 7 10.1 5 9.9 6 10.0 4 9.9 6 10.1	 11.7 11.3 11.4 11.4 11.5		10.6 10.4 10.8 10.8 10.6 11.1	11.8 11.8 11.7 12.1 11.7 11.8	9.9 9.4 9.7 9.4 9.2 9.5 9.1 8.9 8.8 9.5	10.9 11.0 11.1 10.6 11.0
9 10 11 12 13 14	10.6 10.4 10.1 9.8 9.7 9.6 9.5 9.5	7.8 7.9 7.7 7.4 6.8 7.3 6.9 7.7 7.2 7.6 8.6 8.1 8.7	0.0 1: 0.1 1: 0.2 1: 0.2 1: 0.3 1: 0.6 1: 0.5 1: 0.5 1: 0.5 1: 0.5 1: 0.5 1: 0.5 1: 0.5 1:	1.6 8. 1.4 8. 1.7 8. 0.4 8. 1.3 8. 1.9 8. 1.2 8. 1.3 8. 1.3 8. 1.4 9.	7 10.0 4 10.1 7 10.0 3 9.6 5 9.5 7 10.1 5 9.9 6 10.0 9 10.1 10.2 6 10.1 10.2 10.5 10.2	11.4 11.5 11.6 11.6 11.8 12.0 12.2	7 9.2 3 9.5 4 9.7 4 9.2 3 9.6 5 10.6 6 10.6 9.8 6 10.6	 10.6 10.4 10.8 10.8 10.6 11.1 11.1	11.8 11.8 11.7 12.1 11.7 11.8 11.7 11.8 10.7 12.0 11.9 11.3 11.1 10.6 10.3 10.3	9.9 9.4 9.7 9.4 9.5 9.1 8.9 8.8 9.5 9.1 8.7 8.5 8.6 8.4	10.9 11.0 11.1 10.6 11.0 10.7 10.5 10.0 10.9 10.7
9 10 11 12 13 14 15 16 17 18 19	10.6 10.4 10.1 9.8 9.7 9.6 9.5 9.6 9.5	7.8 7.9 7.7 7.4 6.8 7.3 6.9 7.7 7.2 7.6 8.6 8.1 8.2 7.8	0.0 1: 0.1 1: 0.2 1: 0.2 1: 0.3 6 1: 0.5 1: 0.7 1: 0.8	1.6 8. 1.4 8. 2.7 8. 1.3 8. 1.9 8. 1.2 8. 1.3 8. 1.3 8. 1.3 8. 1.4 9. 1.4 9.	7 10.0 4 10.1 7 10.0 3 9.6 5 9.5 7 10.1 5 9.9 6 10.0 4 9.9 6 10.1 10.2 6 10.1 10.2	11.5 11.6 11.6 11.8 11.8 12.0 12.1 12.5 12.5 12.5 12.5	7 9.2 8 9.5 4 9.7 4 9.2 8 9.6 8 10.6 8 10.6 9 .8 10.6 10.4 11.1 11.3 10.6 10.6 10.6 10.6 10.6 10.6 10.6	10.6 10.4 10.8 10.8 10.6 11.1 11.1 11.1 11.1 11.1 11.6 12.1 12.2 11.9 11.1	11.8 11.8 11.7 12.1 11.7 11.8 11.7 11.8 10.7 12.0 11.9 11.3 11.1 10.6 10.3 10.3 10.3 10.7 11.7	9.9 9.4 9.7 9.4 9.2 9.5 9.1 8.9 8.8 9.5 9.1 8.7 8.6 8.4 8.7	10.9 11.0 11.1 10.6 11.0 10.7 10.5 10.0 10.9 10.7 10.2 10.1 9.7 9.5 9.5
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	10.6 10.4 10.1 9.8 9.7 9.6 9.5 9.6 9.5 10.1 10.5 10.2 10.1 10.4	7.8 7.9 7.7 7.4 6.8 7.3 6.9 7.7 7.6 8.6 8.1 8.7 8.2 7.7 7.9 7.8 8.2 8.1 8.2 8.4 9.5 1 8.7	0.0 1: 0.1 1: 0.2 1: 0.2 1: 0.3 6 1: 0.5 1: 0.5 1: 0.5 1: 0.5 1: 0.5 1: 0.1 0.1 0.1 0.1 0.1 0.1	1.6 8. 1.4 8. 2.7 8. 1.4 8. 1.3 8. 1.9 8. 1.2 8. 1.3 8. 1.3 8. 1.4 9. 1.4 9.	7 10.0 4 10.1 7 10.0 3 9.6 5 9.5 7 10.1 5 9.9 6 10.0 4 9.9 6 10.1 10.2 5 10.5	11. 2 11. 3 11. 4 11. 5 11. 6 11. 8 12. 6 12. 12. 9 12. 9	7 9.2 8 9.5 4 9.7 4 9.2 8 9.6 10.6 8 10.6	10.6 10.4 10.8 10.8 10.6 11.1 11.1 11.1 11.6 12.1 12.2 11.9 11.6 11.1	11.8 11.8 11.7 12.1 11.7 11.8 11.7 11.8 10.7 12.0 11.9 11.3 11.1 10.6 10.3 10.3 10.9	9.9 9.4 9.7 9.2 9.5 9.1 8.9 8.8 9.2 9.1 8.7 8.6 8.4 8.7 8.5 9.2 9.5 8.8 9.2 9.5 8.8 9.2 9.5 9.2 9.5 9.5 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6	10.9 11.0 11.1 10.6 11.0 10.7 10.5 10.0 10.9 10.7 10.2 10.1 9.7 9.5 9.9 9.7 9.7 10.1 9.9

07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	9.9 9.7 9.3 9.3 9.8	8.0 7.5 7.6 8.5 8.1	8.7	10.4 10.5 10.8 10.8	8.3 9.4 8.1 7.9 8.4	9.3 10.1 9.6 9.4 9.5	10.7 11.1 11.6 11.2 9.2	7.3 8.5 8.6 6.9	10.1 10.1	9.3 9.4 8.9 8.5 8.3	6.4	8.4 8.0 7.6 7.3 7.2
6 7 8 9 10	9.6 9.7 9.8 9.4 9.7	8.0 7.9 8.1 8.3 8.4	8.8 8.9 9.0 9.0 9.1	10.9 10.2 10.4 11.1 11.2	8.9 8.4 8.0 8.9 9.0	10.0 9.3 9.0 10.3 10.4	9.5 10.2 11.5 10.2 9.6	7.4 8.6 8.1 7.5 7.9	8.4 9.3 9.6 8.8 8.8	8.1 8.3 8.5 9.0 8.6	7.0 6.6 7.2 6.6 6.1	7.5 7.5 7.9 7.9 7.4
	9.9 10.0 9.7 9.8 9.3	9.2 8.4 8.3 7.7 7.8	9.7 9.3 9.1 8.8 8.7	11.2 10.7 11.2 10.9 12.9	8.5 8.8 7.7 8.2 8.5	9.9 9.9 9.5 9.6 10.2	10.0 10.7 10.1 9.5 10.2	9.0 8.0 7.7 7.7 9.0	9.5 9.3 8.8 8.6 9.8	8.4 9.1 10.0 9.2 8.8	6.4 6.8 7.1 6.9 6.6	7.5 8.1 8.5 8.0 7.7
16 17 18 19 20	9.8 9.7 9.9 10.3 9.9	8.2 8.7 8.7 8.0 8.0		12.7 11.6 10.5 11.8	8.5 8.5 8.2 9.8	10.4 9.9 9.3 10.4	10.9 9.9 9.6 10.3 10.3	7.8 7.6 7.5 8.1 7.4	9.4 8.7 8.6 9.2 8.8	8.5 9.2 9.5 9.6 9.1	8.0	7.8 8.5 8.8 8.2 8.2
21 22 23 24 25	9.5 9.7 10.2 10.3 10.6	7.4 7.5 7.8 8.5 8.4	8.5 8.7 9.1 9.5 9.6	12.3 11.2 10.2 9.8 9.2		11.1 10.4 9.0 8.4 8.1	9.8 8.6 8.9 8.5 9.2	7.3 7.1 7.6 6.9 7.0	8.4 8.0 8.3 7.8 8.2	8.9 8.6 8.3 8.1	6.1 6.8	7.7 7.5 7.1 7.4 7.2
26 27 28 29 30 31	11.8 11.2 10.4 9.7	8.1 7.8	10.0 9.6 9.1 8.8	9.5 10.0 9.4 9.4 10.5 11.6	7.7 7.1 7.8 6.6 8.5 9.5	8.7 8.6 8.7 8.1 9.4 10.5	9.2 8.9 8.9 8.6 9.7	6.7 6.6 6.9 6.8 8.3	7.9 7.8 7.9 7.7 9.1	8.0 7.9 8.6 8.6 8.2 8.3 8.1	6.6 6.5 6.4 6.6 6.4	7.3 7.5 7.5 7.4 7.4 7.3
MONTH	11.8	7.4	9.1				11.6	6.6	8.8	10.0	6.1	7.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	JULY			AUGUST			MIN SEPTEMBE	
DAY 1 2 3 4 5	8.6 8.5 8.3 8.5 8.3	JUNE 6.7 6.9 5.0 6.6 6.6	7.5 7.7 7.2 7.6 7.6	7.2 7.0 6.3 6.8 6.9	JULY 5.2 5.3 5.3 5.0 5.1	6.0 6.1 5.8 5.9 6.1	7.2	AUGUST 5.7 5.7 5.8	MEAN 6.4 6.4 6.5 6.4		SEPTEMBE 6.0 6.1 6.7	
1 2 3 4	8.6 8.5 8.3 8.5 8.3	JUNE 6.7 6.9 5.0 6.6	7.5 7.7 7.2 7.6 7.6	7.2 7.0 6.3 6.8	JULY 5.2 5.3 5.3 5.0 5.1	6.0 6.1 5.8 5.9 6.1	7.2 7.1 7.0 7.0	5.7 5.7 5.8 5.5 5.6	6.4 6.4 6.5 6.4	7.1 7.3 7.6 7.8	6.0 6.1 6.7 6.2 6.2 6.6 6.4	6.6 6.8 7.1 7.0 6.9
1 2 3 4 5 6 7 8 9	8.6 8.5 8.3 8.4 7.9 7.8 8.0	JUNE 6.7 6.9 5.0 6.6 6.6 6.5 6.0 6.2 6.4	7.5 7.7 7.2 7.6 7.6 7.5 7.2 7.0 7.1 7.1	7.2 7.0 6.3 6.8 6.9 6.9 7.2 7.1 7.4	JULY 5.2 5.3 5.3 5.0 5.1 5.0 5.2 5.3 5.3 5.3 5.3	6.0 6.1 5.8 6.1 5.9 6.1 5.9 6.0 6.2 6.0 6.1	7.2 7.1 7.0 7.0 7.2 7.2 7.5	5.7 5.7 5.8 5.5 5.6 5.5 5.5	6.4 6.5 6.4 6.5 6.6	7.1 7.3 7.6 7.8 7.6 7.7 7.7 7.8 7.6 7.8	SEPTEMBE 6.0 6.1 6.7 6.2 6.2 6.6 6.4 6.5 6.4 5.0 6.3 6.4	6.6 6.8 7.1 7.0 6.9 7.1 7.2 7.1 7.0 6.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.6 8.5 8.3 8.5 8.3 8.4 7.9 7.8 8.0	JUNE 6.7 6.9 5.0 6.6 6.6 6.5 6.0 6.2 6.4 6.2 6.0 6.1 6.3 6.3	7.5 7.7 7.2 7.6 7.6 7.5 7.2 7.0 7.1 7.1	7.2 7.0 6.3 6.8 6.9 6.9 7.2 7.1 7.4	JULY 5.2 5.3 5.3 5.0 5.1 5.0 5.2 5.3 5.3 5.3 5.3	6.0 6.1 5.8 6.1 5.9 6.1 5.9 6.0 6.2 6.0 6.1	7.2 7.1 7.0 7.0 7.2 7.2 7.5 	3.7 5.7 5.8 5.5 5.6 5.5 5.5 5.8 6.0	6.4 6.5 6.4 6.5 6.6 	7.1 7.3 7.6 7.8 7.6 7.7 7.7 7.8 7.6 7.8 7.6	SEPTEMBE 6.0 6.1 6.7 6.2 6.2 6.6 6.4 6.5 6.4 5.0 6.3 6.4	6.6 6.8 7.1 7.0 6.9 7.1 7.2 7.1 7.0 6.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	8.6 8.5 8.3 8.5 8.3 8.4 7.9 7.8 8.0 7.7 7.8 7.7 8.5 8.2	JUNE 6.7 6.9 5.0 6.6 6.6 6.5 6.2 6.4 6.2 6.1 6.3 6.3 6.7 7.1 7.4 6.8 5.5	7.5 7.7 7.2 7.6 7.5 7.2 7.0 7.1 7.1 7.0 6.9 7.1 7.3 7.1	7.2 7.0 6.3 6.8 6.9 6.9 7.2 7.1 7.4 7.0 7.2 7.1 7.1 6.9 7.2 7.1	JULY 5.2 5.3 5.0 5.1 5.0 5.2 5.3 5.3 5.3 5.4 5.9 5.8 5.7 6.0 5.5 5.6	6.0 6.1 5.8 5.9 6.1 5.9 6.0 6.2 6.0 6.1 6.3 6.3 6.5 6.4 6.6 6.4	7.2 7.1 7.0 7.0 7.2 7.2 7.2 7.5 7.0 7.3 7.3 7.2 7.0 6.7	AUGUST 5.7 5.8 5.5 5.6 5.5 5.8 6.0 6.2 6.2 6.2 5.9 4.8	6.4 6.5 6.4 6.5 6.5 6.6 6.7 6.9 6.8 6.5,9	7.1 7.3 7.6 7.8 7.6 7.7 7.7 7.8 7.6 7.8 7.9 8.0 8.0 7.9	SEPTEMBE 6.0 6.1 6.7 6.2 6.2 6.4 6.5 6.4 6.5 6.4 5.0 6.3 6.4 6.2 6.2 6.2 6.2	6.6 6.8 7.1 7.0 6.9 7.1 7.2 7.1 7.0 6.7 7.1 7.0 7.0 6.7 6.9 6.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	8.6 8.5 8.3 8.5 8.3 8.4 7.9 7.8 8.0 7.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7	JUNE 6.7 6.9 5.0 6.6 6.6 6.5 6.2 6.4 6.2 6.0 6.3 6.3 5.7 7.1 7.4 6.8 5.5 5.9 6.1 6.5 6.7	7.5 7.7 7.2 7.6 7.6 7.5 7.2 7.0 7.1 7.0 6.9 7.1 7.3 7.6 6.9 7.1	7.2 7.0 6.3 6.8 6.9 6.9 7.2 7.1 7.0 7.0 7.2 7.1 7.1 6.9 7.2 7.1 7.0 6.8 7.2 7.1	JULY 5.2 5.3 5.0 5.1 5.0 5.2 5.3 5.3 5.3 5.1 5.9 5.8 5.6 5.6 5.6 5.7 6.01	6.0 6.1 5.8 5.9 6.1 5.9 6.0 6.2 6.0 6.1 6.3 6.3 6.5 6.4 6.6 6.4 6.4 6.4 6.5 6.7	7.2 7.1 7.0 7.0 7.0 7.2 7.2 7.2 7.5 7.0 7.3 7.3 7.3 7.2 7.0 6.6 6.8 6.8 6.8 6.9	AUGUST 5.7 5.8 5.5 5.6 5.5 5.8 6.0 6.2 6.2 6.2 5.9 4.8 4.3 4.4 5.6 5.5 5.5	6.4 6.5 6.4 6.5 6.5 6.6 6.6 6.7 6.8 6.9 6.8 6.5 5.8 6.3 6.1 6.2	7.1 7.3 7.6 7.8 7.6 7.7 7.7 7.8 7.6 7.8 7.9 8.0 7.8 7.9 8.0 8.0 7.8 7.9	SEPTEMBE 6.0 6.1 6.7 6.2 6.2 6.6 6.4 6.5 6.4 5.0 6.3 6.2 6.2 6.2 7.2 7.2 7.2 7.8	7.1 7.0 6.9 7.1 7.0 6.9 7.1 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0

07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY				TELL, SIAN			IEAR OCIO			LEMBER ZUUU		MEDAN
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			OVEMBER			CEMBER			JANUARY	
1 2	8.2 8.3	8.2 8.2	8.2 8.2	8.1 8.2	8.1	8.1 8.1				8.4 8.3	8.2 8.2	8.3
3 4	8.2	8.2 8.2	8.2 8.2	8.3 8.3	8.1 8.2 8.2	8.2 8.3				8.3 8.3	8.2	8.2
5	8.3	8.2	8.2	8.3	8.2	8.3				8.4	8.3	8.3
6	8.3	8.2	8.2	8.3	8.2	8.3				8.4	8.2	8.3
7 8	8.3 8.1	8.0 7.9	8.2 8.0	8.3 8.3 8.4	8.2	8.3 8.3	8.6	8.3	8.4	8.4 8.4	8.2 8.3	8.3 8.3
9 10	8.1 8.1	8.1 8.1	8.1 8.1	8.4 8.4	8.2 8.2 8.2 8.3 8.3	8.3 8.3	8.7 8.7	8.5 8.6	8.6 8.6	8.4 8.4	8.3 8.3	8.3 8.3
11	8.2	8.1	8.1			8.3	8.6	8.5	8.6	8 4		8.3
12	8.2	8.1	8.1	8.4 8.4	8.3	8.3	8.6	8.4	8.5	8.4 8.4 8.4	8.3	8.3
13 14	8.2	8.1	8.2	8.4 8.4 8.4	8.3	8.3 8.3	8.5 8.5	8.4	8.4	8.4	8.3	8.3
15	8.3	8.2	8.2	8.4	8.3	8.3	8.4	8.2	8.3	8.4	8.3	8.3
16 17	8.3	8.2 8.0	8.2 8.1	8.4 8.4	8.3 8.3	8.3 8.3	8.3 8.3	8.2 8.1	8.2 8.2	8.4 8.4	8.3	8.3 8.3
18 19	8.2	8.1 8.1	8.1 8.1	8.4 8.4 8.5	8.3	8.4 8.4	8.3 8.3	8.1	8.2 8.2	8.4	8.3	8.3
20	8.2	8.1	8.2	8.5	8.3	8.4	8.3	8.2	8.2	8.4	8.3	8.3
21	8.2	8.2	8.2	8.4	8.3	8.4	8.3	8.1	8.2	8.4	8.3	8.3
22 23	8.2 8.3	8.2 8.2	8.2 8.2	8.3 8.3 8.4	8.2 8.2	8.3 8.3	8.3 8.3	8.2 8.2	8.2 8.2	8.3 8.3 8.3	8.2	8.3
24 25	8.2	8.1 8.1	8.1 8.1	8.4 8.4	8.2 8.3 8.3	8.3 8.4	8.3 8.3 8.3 8.3	8.2 8.2	8.2 8.3	8.3 8.3	8.2	8.3
26	8.2	8.1	8.2	8.4	8.3	8.4				8.4	8.1	8.3
27	8.2	8.1	8.2							8.2	8.1	8.2
28 29	8.2 8.2	8.2 8.1	8.2 8.2				8.3 8.4	8.2 8.2	8.3 8.3	8.2 8.3	8.2 8.2	8.2 8.2
30 31	8.2 8.2	8.1 8.0	8.2 8.1				8.3 8.3	8.2 8.2	8.3 8.3	8.3 8.3	8.2 8.2	8.2 8.2
MONTH	8.3	7.9	8.2							8.4	8.1	8.3
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1				0.2		8.3			0.1	0.0	7.9	8.0
1 2	8.3	8.2 8.2 8.2	8.2	8.3 8.4	8.2 8.3 8.3 8.3	8.3	8.2 8.2	8.0 8.1 8.1	8.1 8.2	8.0 8.1	8.0	8.0
3 4	8.2 8.3	8.2	8.2 8.2	8.4 8.4	8.3	8.3 8.3	8.2 8.2	8.1	8.1 8.1	8.1 8.1	7.9 7.9	8.0 8.0
5	8.3	8.2	8.2	8.4	8.2	8.3	8.2	8.0	8.1	8.1	8.0	8.0
6 7	8.2	8.2 8.1	8.2	8.4 8.3	8.3 8.1	8.3 8.2	8.2 8.2	8.1 8.1	8.2 8.2	8.2 8.1	8.0	8.1
8	8.2	8.2	8.2	8.2	7.9	8.1	8.3	8.1	8.2	8.0	7.7	7.9
9 10	8.3 8.2	8.0 8.2	8.2 8.2	8.3 8.3	8.2 8.3	8.3 8.3	8.3 8.3	8.1 8.1	8.2 8.2	8.0 8.1	7.8 8.0	7.9 8.0
11	8.3	8.2	8.3	8.3	8.3	8.3	8.3	8.2	8.3	8.1	8.0	8.1
12 13	8.3 8.3	8.2 8.2	8.3 8.2	8.3 8.3	8.3 8.2	8.3 8.2	8.3 8.3	8.2 8.2	8.2 8.2	8.1 8.1	8.0 8.0	8.1 8.1
14 15	8.3	8.2 8.2	8.2	8.3 8.3	8.2 8.2	8.3 8.3	8.3 8.2	8.2 8.1	8.2 8.1	8.1 8.1	8.0	8.1
16	8.3	8.2	8.3	8.3	8.1	8.2	8.2	8.0	8.1	8.1	8.0	8.1
17	8.3	8.2	8.3	8.3	8.2	8.3	8.2	8.1	8.1	8.1	8.0	8.1
18 19	8.3 8.2	8.2 8.2	8.3 8.2	8.3 8.3	8.2 8.2	8.3 8.2	8.3 8.3	8.1 8.2	8.2 8.2	8.1 8.1	8.0 8.1	8.1 8.1
20	8.3	8.2	8.2	8.4	8.3	8.3	8.2	8.0	8.1	8.1	8.1	8.1
21 22	8.3	8.2 8.2	8.2 8.2	8.4 8.4	8.1 8.2	8.4 8.3	8.2 8.1	8.0 7.9	8.1 8.0	8.1 8.2	8.0 8.0	8.1 8.1
23 24	8.3	8.2	8.2	8.3 8.3	8.2	8.2 8.2	8.2 8.0	8.0 7.9	8.1 8.0	8.2 8.2	8.1	8.1 8.1
25	8.3	8.3	8.3	8.2	8.0	8.1	8.0	7.9	7.9	8.1	7.9	8.0
26	8.3	8.2	8.3	8.2	8.1	8.2	8.1	7.9	8.0	8.1	7.9	8.0
27 28	8.3 8.3	8.2 8.2	8.3 8.2	8.2 8.2	8.1 8.0	8.2 8.1	8.1 8.0	7.9 7.9	8.0 8.0	8.2 8.2	8.1 8.1	8.1 8.1
29 30	8.3	8.2	8.2	8.2 8.2	7.9 8.0	8.0 8.1	8.1 8.0	7.9 7.9	8.0 8.0	8.2 8.2	8.1	8.1 8.1
31				8.1	8.0	8.1				8.3	8.1	8.1
MONTH	8.3	8.0	8.2	8.4	7.9	8.2	8.3	7.9	8.1	8.3	7.7	8.1

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07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	8.3 8.3 8.2 8.2 8.2	8.1 8.1 8.1 8.1 8.1	8.2 8.2 8.2 8.2 8.2	8.3 8.2 8.1 8.2 8.2	8.1 8.1 7.9 8.1 8.1	8.2 8.1 8.0 8.1 8.1	8.2 8.3 8.2 8.2 8.2	8.1 8.1 8.1 8.1 8.0	8.1 8.1 8.1 8.1 8.1	8.2 8.3 8.3 8.3	8.1 8.2 8.1 8.1 8.1	8.2 8.2 8.2 8.2 8.2
6 7 8 9 10	8.3 8.3 8.3 8.3	8.1 8.1 8.1 8.1	8.2 8.2 8.2 8.2 8.2	8.1 8.2 8.2 8.2	8.0 8.0 8.0 8.0	8.1 8.1 8.1 8.1	8.2 8.2 8.2 8.2 8.2	7.9 7.9 8.1 8.1 8.1	8.1 8.0 8.1 8.1 8.2	8.3 8.4 8.3 8.3	8.1 8.2 8.2 8.1 8.1	8.2 8.3 8.3 8.2
11 12 13 14 15	8.3 8.3 8.3 8.4 8.4	8.1 8.1 8.2 8.2	8.2 8.2 8.2 8.3 8.3	8.1 8.2 8.2 8.2	8.0 7.9 7.9 8.0 8.0	8.0 8.0 8.0 8.1 8.1	8.3 8.2 8.2 8.2 8.2	8.1 8.1 8.1 7.9 8.1	8.2 8.2 8.2 8.1 8.2	8.5 8.4 8.4 8.3 8.2	8.1 8.1 8.0 8.0	8.2 8.2 8.2 8.1 8.1
16 17 18 19 20	8.3 8.4 8.3 8.2 8.2	8.2 8.1 8.1 8.0 8.1	8.2 8.2 8.2 8.1 8.2	8.0 8.1 8.0 8.1 8.1	8.0 7.9 7.8 8.0 8.0	8.0 8.0 7.9 8.0 8.1	8.2 8.3 8.2 8.2 8.1	8.1 8.0 8.0 8.1 8.1	8.2 8.1 8.1 8.1 8.1	8.2 8.2 8.3 8.2 8.2	8.0 8.0 8.0 8.0	8.1 8.1 8.1 8.1 8.0
21 22 23 24 25	8.3 8.3 8.3 8.3	8.2 8.2 8.2 8.2 8.2	8.2 8.2 8.2 8.2 8.2	8.1 8.2 8.2 8.2	8.0 8.1 8.0 8.0	8.0 8.1 8.1 8.1 8.1	8.2 8.1 8.1 8.1 8.1	7.9 7.7 8.0 7.8 7.9	8.1 8.0 8.1 8.0 8.0	8.3 8.2 8.2 8.1 8.1	8.0 8.1 8.0 8.0	8.1 8.1 8.0 8.1
26 27 28 29 30 31	8.2 8.1 8.2 8.2 8.2	7.7 7.7 8.1 8.1 8.2	8.0 8.1 8.2 8.2	8.3 8.2 8.1 8.1 8.2 8.2	8.1 8.0 8.0 7.9 8.1 8.1	8.2 8.1 8.1 8.0 8.1 8.1	 8.0 8.2 8.2	7.8 7.9 8.1	7.9 8.0 8.2	8.1 8.2 8.2 8.2 8.2	8.1 8.1 8.1 8.1	8.1 8.1 8.2 8.2
MONTH	8.4	7.7	8.2	8.3	7.8	8.1				8.5	8.0	8.1

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		D	ECEMBER			JANUARY	
1 2 3 4 5	820 820 823 814 827	761 778 788 787 745	794 800 802 803 799	 985 997 979	946 948 933	974 966 952	1060 1040 988 985 1030	1010 915 854 906 908	1030 979 931 941 994	1060 1100 1120 1190 1150	1000 1010 1020 1030 987	1020 1050 1070 1080 1060
6 7 8 9 10	845 855 769 825 855	785 380 466 764 818	810 759 654 802 834	980 988 991 989 985	917 935 949 942 944	951 952 964 964 959	1030 1060 1040 1140 1120	951 979 955 1020 1060	983 1010 1010 1060 1070	1130 1180 1120 1140 1150	1030 1010 1040 1020 1010	1070 1070 1070 1060 1060
11 12 13 14 15	886 936 973 952 950	841 881 902 917 878	864 904 936 930 925	990 993 997 1020 990	943 945 947 945 929	960 961 969 972 957	1120 1100 1080 1070 1070	984 907 924 928 945	1070 1010 992 1000 1030	1130 1100 1120 1120 1090	987 1030 1010 995 1010	1040 1060 1050 1040 1040
16 17 18 19 20	924 910 923 902 934	887 841 881 863 886	910 881 901 880 906	994 989 1000 997 1010	946 945 957 942 962	963 962 974 966 986	1010 981 1010 999 932	904 876 916 878 854	956 939 962 940 891	1080 1080 1060 1050 970	1000 1000 1000 970 932	1030 1030 1030 1010 946
21 22 23 24 25	973 972 967 935 943	899 919 911 897 905	919 933 938 917 921	1000 953 933 	885 807 807 	968 906 886 	978 985 1070 1000 947	871 880 905 899 908	907 928 947 934 931	967 951 959 966 960	921 919 910 900 915	937 934 935 930 935
26 27 28 29 30 31	962 947 959 962 	908 892 890 828 	935 926 912 910 	 1110 1100	 985 1020	 1060 1050	1060 1070 1020 1080	 1000 972 965 978	1020 1010 992 1020	1010 1250 1290 1150 1160 1110	869 895 1020 1020 1050 964	949 956 1120 1100 1110 1040
MONTH										1290	869	1030

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07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

	FECIFIC	001120011	(1110	ACOTEPHEND/	CIT III 23	DEG. C),	WAILK IL	AR OCTOL	LIC IDDD	TO SEFTEM	DBIC 2000	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY	-		MARCH			APRIL			MAY	
1 2 3 4 5	1120 1140 1070 1040 1030	1000 1010 968 977 968	1050 1050 1020 1000 992	998 983 973 986 967	942 933 913 929 889	965 955 941 956 939	933 941 942 970 936	856 835 886 906 856	907 908 921 933 896	861 929 910 911 920	791 831 852 831 847	814 875 874 868 867
6 7 8 9 10	1020 1020 1020 1020 1020	971 969 966 957 964	996 989 992 990 984	962 969 884 928 957	896 882 754 844 896	919 927 804 887 920	869 846 816 804 813	800 791 768 768 756	845 822 787 784 781	891 923 828 804 888	818 822 357 380 787	852 869 618 650 826
11 12 13 14 15	1030 1040 1020 1020 1020	990 993 965 965 970	1000 1020 993 985 991	981 970 967 980 976	911 905 901 910 766	932 939 930 935 910	809 791 770 758 744	752 761 742 722 703	774 775 755 738 726	940 994 945 957 978	818 860 868 897 906	890 926 901 917 933
16 17 18 19 20	1020 1000 1270 1330 1030	956 944 976 1020 976	982 973 1020 1170 1010	930 988 969 987	701 724 806 923	840 900 894 958	765 788 829 796 803	729 755 754 759 749	748 769 779 776 775	965 982 861 912 889	892 861 778 810 810	939 930 822 854 848
21 22 23 24 25	1030 1020 1020 1020 1020	967 966 968 965 958	994 984 985 980 984	1020 1080 1010 993 955	915 933 910 929 904	943 1020 946 959 930	798 820 801 847 834	757 770 749 721 781	775 793 786 761 802	940 987 1030 1030 880	824 850 904 821 670	868 899 967 960 805
26 27 28 29 30 31	1020 998 1010 1020 	946 939 934 957 	974 964 965 974 	934 947 924 946 906 922	887 883 885 887 842 786	912 901 898 908 882 843	841 861 895 897 866	797 816 843 831 762	822 838 862 864 824	866 942 981 996 998 1010	727 842 895 897 907 919	824 891 929 949 953 961
MONTH	1330	934	1000				970	703	811	1030	357	874
			MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBE	MEAN CR
		MIN	960 940 941 967 942	1020 1050 981 1010 1090		977 1010 835 962 1010			MEAN 1090 1110 1090 1090	963 993 		
DAY 1 2 3 4	MAX 1010 1000 988 1010	MIN JUNE 934 882 901 928	960 940 941 967	1020 1050 981 1010	JULY 939 978 690 900	977 1010 835 962	1140 1160 1130 1140	1050 1080 1050 1050	1090 1110 1090 1090	963 993 	880 922 	919 958
DAY 1 2 3 4 5 6 7 8 9	MAX 1010 1000 988 1010 999 1020 1040 1040 1090	MIN JUNE 934 882 901 928 897 896 914 935 946	960 940 941 967 942 957 972 989 1000	1020 1050 981 1010 1090 1120 1100 1100	JULY 939 978 690 900 968 984 1010 1010	977 1010 835 962 1010 1040 1060 1060	1140 1160 1130 1140 1090 1040 1130 1180	1050 1080 1050 1050 546 592 1020 1080	1090 1110 1090 1090 972 923 1070 1120	963 993 1080 1080 1110	880 922 987 989 1020 1030	919 958 1040 1030 1060 1070
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	MAX 1010 1000 988 1010 999 1020 1040 1090 1080 1100 1070 1080	MIN JUNE 934 882 901 928 897 896 914 935 946 962 959 963 963 963 963	960 940 941 967 942 957 972 989 1000 1010	1020 1050 981 1010 1090 1120 1100 1100 1090 1080 1100 1110	939 978 690 900 968 984 1010 1010 1010 983 989 977 995 982	977 1010 835 962 1010 1040 1060 1060 1040 1040 1030 1040 1050	1140 1160 1130 1140 1090 1040 1130 1180 1200 1200 1160 	1050 1080 1050 1050 1050 1050 546 592 1020 1080 1090 1110 1020 1020	1090 1110 1090 1090 972 923 1070 1120 1140 1140 1110 	963 993 1080 1080 1110 1110 1110 1130 1130 1080	880 922 987 987 989 1020 1030 1030 1040 1060 1050 981	919 958 1040 1030 1060 1070 1070 1070 1080 1090
DAY 1 2 3 4 5 5 6 7 7 8 8 9 10 11 12 13 13 14 15 16 17 18 19	MAX 1010 1000 988 1010 999 1020 1040 1040 1090 1100 1100 1100 1120 1050 1000 973	MIN JUNE 934 882 901 928 897 896 914 935 946 962 959 975 975 915 869 788	960 940 941 967 942 957 972 989 1000 1010 1020 1030 1040 1060 1060 1060 1090 950	1020 1050 981 1010 1090 1090 1120 1100 1100 1090 1080 1110 1110 1110	939 978 690 900 968 984 1010 1010 1010 983 989 977 995 982 927 830 374 425 901	977 1010 835 962 1010 1040 1060 1060 1040 1030 1040 1050 1060 945 824 709 957	1140 1160 1130 1140 1090 1040 1130 1180 1200 1200 1160 1140 1140 1130 956	1050 1080 1080 1050 1050 1050 1050 1050	1090 1110 1090 1090 972 923 1070 1120 1140 1110 1080 1090	963 993 1080 1080 1110 1110 1120 1130 1130 1080 1070	880 922 987 989 1020 1030 1040 1060 1050 981 1000 1010 1020 1030 1040	919 958 1040 1030 1060 1070 1070 1070 1080 1090 1030 1030 1060 1060 1060 1060 1060 1060 1060
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	MAX 1010 1000 988 1010 999 1020 1040 1040 1090 1100 1120 1050 1000 973 1020 1070 1090 1110	MIN JUNE 934 882 901 928 897 896 914 935 946 962 959 975 975 975 869 979 979 979	960 940 941 967 942 957 972 989 1000 1010 1020 1030 1040 1060 1000 950 903 970	1020 1050 981 1010 1090 1120 1100 1100 1100 1100 1110 111	939 978 690 900 968 984 1010 1010 1010 983 987 977 995 982 927 830 374 425 901 919	977 1010 835 962 1010 1040 1060 1060 1060 1040 1030 1040 1050 1060 945 824 709 957 992 985 1040 1050 1060	1140 1160 1130 1140 1090 1040 1130 1180 1200 1200 1160 1140 1140 1130 956 1070 1100 908 982 945	1050 1080 1050 1050 1050 1050 1050 1050	1090 1110 1090 1090 972 923 1070 1120 1140 1110 1080 1020 808 1010 1070 1070 731 927 741	963 993 993 1080 1080 1110 1110 1120 1130 1080 1070 1090 1120 1120 1120 1120 1120 1060 1060 964	880 922 987 989 1020 1030 1040 1060 1050 981 1000 1010 1020 1030 1040 1050	919 958 1040 1030 1060 1070 1070 1070 1080 1090 1030 1060 1060 1060 1060 1070 1070

07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			OVEMBER			ECEMBER			JANUARY	-
1 2 3 4 5	19.4 16.4 15.0 18.0 18.3	8.8 7.9 8.1 7.3 8.5	12.9 11.8 10.7 12.0 12.9	12.6 12.1 13.0 14.0 13.9	6.3 3.9 5.3 5.3 6.4	8.7 7.5 8.5 9.1 9.4	10.5 9.8 5.7 5.8 7.5	5.9 5.2 2.5 1.4 .4	7.5 6.8 4.6 3.1 3.5	9.0 8.2 4.6 6.2 7.7	3.1 2.4 .0 .0	5.6 5.1 2.3 2.2 3.8
6 7 8 9 10	10 2	10.0 8.2 8.5 9.1 9.9	13.6 13.0 12.2 13.5 13.9	14.5 14.2 15.0 14.5 13.9	5.4 5.9 6.8 8.2 6.2	9.4 9.5 10.4 10.6 9.5	8.2 8.4 4.1 5.7 8.0	2.1 2.2 3.1 .4 2.0	4.5 4.6 3.7 3.1 4.5	7.3 7.8 8.1 7.3 8.2	1.4 .0 2.1 1.0	3.8 3.1 4.5 3.3 3.9
11 12 13 14 15	19.3 19.1 18.1 19.2 17.8	10.0 9.8 10.2 9.4 9.2	14.2 14.1 13.5 13.6 12.8	14.6 14.4 14.5 13.6 14.2	6.5 6.1 6.0 6.0 5.9	10.0 9.6 9.6 9.2 9.4	7.9 8.2 7.1 5.5 7.0	2.8 2.2 2.2 1.1	4.7 4.4 4.2 3.0 2.8	9.3 9.7 8.0 8.7 8.9	.0 3.8 1.7 1.5 2.7	4.4 5.9 4.3 4.5 5.5
16 17 18 19 20	11.9 14.1 11.7 13.7 15.5	7.3 5.7 6.8 7.0 6.3	9.1 9.1 8.8 9.7 10.3	14.0 13.8 11.9 10.9	6.2 6.1 5.7 3.7 4.8	9.4 9.4 8.5 6.8 7.1	8.4 7.4 8.5 6.6 4.9	2.2 3.7 2.6 2.2 1.0	4.8 5.2 5.1 4.0 2.8	9.4 10.4 10.2 10.8 10.0	3.0 3.8 4.6 4.7 3.3	5.6 6.4 6.8 6.9 6.1
21 22 23 24 25	16.2 16.2 16.3 16.4 15.6	6.8 7.3 7.4 7.2 7.7	10.9 11.2 11.2 11.3 11.1	10.9 7.9 8.2 8.1 7.4	3.7 3.4 3.0 1.9 1.3	7.2 5.2 4.9 4.4 4.1	4.3 6.1 7.8 9.1	.0 .9 1.3 2.0	2.0 3.1 4.0 4.9	9.7 9.1 9.0 9.5 5.8	3.4 3.3 2.1 2.0 2.6	6.0 5.9 4.8 5.2 3.9
26 27 28 29 30 31	14.1	7.2 7.4 6.5 6.5 4.7 6.0		10.4 9.9	3.9 4.7	6.8 7.2	 9.6 8.8 8.6	 2.9 2.6 1.7	 5.7 5.2 4.8	7.8 5.8 6.5 6.7 6.3 7.4	2.5 1.3 1.7 .0 .0	4.0 3.1 3.0 2.2 1.9 2.4
MONTH	19.4	4.7	11.5							10.8	.0	4.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY		FEBRUARY			MARCH			APRIL				MEAN
DAY 1 2 3 4 5	7.9 10.0 9.8 7.0 9.2	.0 .3 2.0 2.9 1.6	2.9 4.5 5.4 4.4 5.0	12.4 7.3 14.4 15.5 13.2	MARCH 4.1 5.2 4.3 4.1 5.2	7.8 6.0 8.4 9.0 8.3	15.4 12.4 10.8 17.9 19.5	4.6 3.8 2.7 3.7 7.4	8.4 7.0 6.8 10.1 12.7	17.9 21.8 23.4 24.2 24.0		MEAN 12.0 14.0 15.7 17.0 17.4
1 2 3 4 5	7.9 10.0 9.8 7.0 9.2	FEBRUARY	2.9 4.5 5.4 4.4 5.0		MARCH 4.1 5.2 4.3 4.1 5.2		15.4 12.4 10.8 17.9 19.5	4.6 3.8 2.7 3.7 7.4		17.9 21.8 23.4 24.2 24.0	MAY 7.8 7.8 9.2 11.0 11.8	12.0 14.0 15.7 17.0 17.4
1 2 3 4 5 6 7 8 9	7.9 10.0 9.8 7.0 9.2 9.9 11.2 10.3 7.7 8.9	.0 .3 2.0 2.9 1.6	2.9 4.5 5.4 4.4 5.0 6.4 6.3 5.9	12.4 7.3 14.4 15.5 13.2	MARCH 4.1 5.2 4.3 4.1 5.2 3.9 5.5 5.3 4.1 4.1	7.8 6.0 8.4 9.0 8.3 6.8 8.6 7.4 6.5 6.4	15.4 12.4 10.8 17.9 19.5 18.0 13.3 16.2 18.5 16.6	4.6 3.8 2.7 3.7 7.4 8.3 6.6 4.4 6.5 8.4	8.4 7.0 6.8 10.1 12.7	17.9 21.8 23.4 24.2 24.0 19.9 22.7 13.9 19.7 22.8	7.8 7.8 9.2 11.0 11.8 12.1 11.8 10.4 9.3	12.0 14.0 15.7 17.0 17.4 15.8 15.9 11.9 13.8 15.9
1 2 3 4 5 6 7 7 8 9 10	7.9 10.0 9.8 7.0 9.2 9.9 11.2 10.3 7.7 8.9	FEBRUARY .0 .3 2.0 2.9 1.6 2.6 2.8 4.7 3.0 2.9 2.7 2.9 2.3 4.1	2.9 4.5 5.4 4.4 5.0 6.4 6.3 5.9	12.4 7.3 14.4 15.5 13.2 10.8 12.9 9.7 11.0 10.3 13.5 11.6 14.5 13.5 11.1	MARCH 4.1 5.2 4.3 4.1 5.2 3.9 5.5 5.3 4.1 4.1	7.8 6.0 8.4 9.0 8.3 6.8 8.6 7.4 6.5 6.4	15.4 12.4 10.8 17.9 19.5 18.0 13.3 16.2 18.5 16.6	APRIL 4.6 3.8 2.7 3.7 7.4 8.3 6.6 4.4 6.5 8.4 8.1 5.8 9.1 7.1 4.6 7.5 8.1	8.4 7.0 6.8 10.1 12.7 12.6 9.6 9.9 12.1 11.8	17.9 21.8 23.4 24.2 24.0 19.9 22.7 13.9 19.7 22.8 22.5 20.2 19.1 19.9 22.6 18.7 15.2 14.8 21.9	7.8 7.8 9.2 11.0 11.8 12.1 11.8 10.4 9.3 10.4 10.9 8.9 8.6 9.9	12.0 14.0 15.7 17.0 17.4 15.8 15.9 11.9 13.8 15.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.9 10.0 9.8 7.0 9.2 9.9 91.2 10.3 7.7 8.9 5.7 8.6 8.8 12.5 12.1	FEBRUARY .0 .3 2.0 2.9 1.6 2.6 2.8 4.7 3.0 2.9 2.7 2.9 2.3 4.1 3.2 3.0 2.2	2.9 4.5 5.4 4.4 5.0 6.0 6.3 5.9 5.8 3.6 7.4 6.8 4.4 4.7	12.4 7.3 14.4 15.5 13.2 10.8 12.9 9.7 11.0 10.3 13.5 11.6 14.5 13.5 11.1 11.9 12.3 10.6 12.7 7.5	MARCH 4.1 5.2 4.3 4.1 5.2 3.9 5.5 4.1 4.1 4.2 4.8 3.2 4.1 .0 1.2 2.5 5.4 3.2 2.7	7.8 6.0 8.4 9.0 8.3 6.8 6.4 6.5 6.4 8.1 7.2 8.1 8.5 5.8	15.4 12.4 10.8 17.9 19.5 18.0 13.3 16.2 18.5 16.6 12.4 17.2 18.9 18.2 10.2	APRIL 4.6 3.8 2.7 3.7 7.4 8.3 6.6 4.4 6.5 8.4 8.1 5.8 7.1 4.6 7.5 8.1 6.3	8.4 7.0 6.8 10.1 12.7 12.6 9.6 9.9 12.1 11.8 9.7 11.1 12.8 12.7 8.6	17.9 21.8 23.4 24.2 24.0 19.9 22.7 13.9 19.7 22.8 22.5 20.2 19.1 19.9 22.6 18.7 15.2 14.8 21.9	MAY 7.8 7.8 9.2 11.0 11.8 10.4 9.3 10.4 9.3 11.0 8.9 6.9 9.9 11.0 8.9 7.8 8.9	12.0 14.0 15.7 17.0 17.4 15.8 11.9 13.8 15.9 11.9 13.4 12.3 14.0 15.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	7.9 10.0 9.8 7.0 9.9 11.2 10.3 7.7 8.6 8.8 12.5 12.1 10.8 7.1 7.6 9.6 	.0 .3 2.0 2.9 1.6 2.8 2.8 4.7 3.0 2.9 2.7 2.9 2.3 4.1 3.2 3.0 2.2 .7	2.9 4.5 5.4 4.4 5.0 6.0 6.3 5.9 5.8 3.6 7.4 6.8 4.4 4.7	12.4 7.3 14.4 15.5 13.2 10.8 12.9 9.7 11.0 10.3 13.5 11.6 14.5 13.5 11.1	MARCH 4.1 5.2 4.3 4.1 5.5 5.3 4.1 4.1 4.2 4.8 3.2 4.1 .0 1.2 2.5 5.4 3.2 2.7 1.9 4.0 7.5	7.8 6.0 8.4 9.0 8.3 6.8 7.4 6.5 6.4 8.1 7.2 8.1 8.5 5.8 5.9 7.6 7.5 5.5 4.4 5.5 10.0 11.1	15.4 12.4 10.8 17.9 19.5 18.0 13.3 16.2 18.5 16.6 12.4 17.2 18.9 18.2 10.2 17.2 18.3 18.2 10.2	APRIL 4.6 3.8 2.7 3.7 7.4 8.3 6.6 4.4 6.5 8.1 5.8 9.1 7.1 4.6 7.5 8.1 6.3 6.2 7.7 9.0 9.2 7.7 8.3 9.4 10.3	8.4 7.0 6.8 10.1 12.7 12.6 9.9 12.1.1 11.8 9.7 11.1 12.8 8.6 10.3 12.3 12.3 12.3 12.3 12.3 13.3 13.5	17.9 21.8 23.4 24.2 24.0 19.9 22.7 13.9 19.7 22.8 22.5 20.2 19.1 19.9 22.6 18.7 15.2 14.8 21.9 17.4 23.5 24.0 27.1 23.0	7.8 7.8 9.2 11.0 11.8 10.4 9.3 10.4 10.9 8.9 6.9 8.9 7.8 8.9 7.8 8.9 7.8 9.9	12.0 14.0 15.7 17.0 17.4 15.8 15.9 11.9 13.8 15.9 11.3 14.0 11.3 10.9 14.3 13.9 16.3 17.6 19.6 19.6 19.6 19.6 19.6

07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	IR.
1	26.8	14.1	20.0	30.0	16.3	22.2	29.0	17.5	22.6	25.5	16.7	20.6
2	25.0	15.6	19.1	28.6	17.6	22.3	29.6	18.7	23.4	24.2	16.1	19.8
3	28.1	14.7	19.3	26.9	19.4	22.2	27.6	19.1	22.5	21.7	15.2	18.2
4	26.8	14.1	19.3	28.8	17.1	22.5	29.7	18.8	22.6	25.8	14.5	19.7
5	26.2	14.9	18.9	29.2	16.2	22.4	29.0	18.2	22.5	26.3	16.4	20.8
6	27.5	14.2	19.5	29.6	17.7	23.3	27.5	17.8	21.5	25.1	16.1	20.0
7	28.4	14.3	20.9	30.6	18.9	23.1	28.6	16.5	21.5	24.0	15.1	18.8
8	28.0	15.2	20.6	30.8	17.8	23.2	28.9	17.0	22.2	23.1	14.2	18.3
9	26.3	15.6	20.0	29.7	18.5	23.4	28.0	17.1	21.9	24.0	14.1	18.5
10	26.6	14.8	20.1	30.6	19.3	23.7	29.6	17.8	23.0	24.9	14.0	18.7
11	27.9	15.9	20.6	30.5	18.9	23.3	30.1	18.4	22.3	25.0	13.7	18.6
12	27.3	14.8	20.7	28.7	19.1	23.2	27.2	18.7	22.3	24.3	13.6	18.4
13	26.2	15.4	19.8	30.8	18.4	23.8	29.7	18.3	23.5	26.0	13.9	19.4
14	26.9	13.6	19.7	31.4	19.0	24.7	30.5	18.8	23.8	24.4	14.6	19.0
15	29.4	14.7	20.4	31.6	19.5	24.0	30.6	19.5	23.2	25.2	14.2	19.2
16	23.9	14.2	17.5	28.2	19.0	22.3	28.9	18.9	21.6	26.1	14.7	19.8
17	20.7	13.8	16.1	27.2	17.0	21.4	27.1	17.9	20.7	25.0	14.6	19.1
18	25.3	12.5	18.0	29.1	17.8	22.4	24.6	17.6	20.3	24.0	15.4	19.0
19	26.9	15.0	19.8	30.1	18.3	23.5	29.5	17.2	22.4	23.5	14.0	18.3
20	28.3	15.3	20.8	28.7	19.1	23.3	28.5	17.4	21.9	16.6	11.9	13.9
21	27.6	15.7	21.1	29.3	18.8	22.6	27.2	16.4	20.6	20.9	9.9	15.1
22	28.1	16.1	21.3	29.0	19.5	22.4	27.3	17.2	20.9	17.2	12.7	14.8
23	26.1	16.7	20.1	30.2	17.7	23.1	28.4	16.4	21.5	13.7	10.1	11.9
24	27.1	15.3	20.2	25.3	17.5	20.7	27.0	16.8	21.4	12.6	8.3	10.1
25	27.9	16.6	20.8	27.2	16.5	21.7	28.9	16.8	21.6	18.6	7.6	12.4
26 27 28 29 30 31	18.6 21.1 19.3 25.9 27.8	17.1 15.9 16.1 15.6 16.6	17.6 18.2 17.9 20.3 21.1	28.4 28.2 28.1 28.0 27.1 29.7	17.5 17.5 17.4 17.5 17.8 17.5	22.2 21.5 21.6 22.4 22.3 22.9	24.6 24.7 24.0	17.6 17.0 17.1	20.5 20.5 20.1	20.3 21.4 21.4 19.8 22.7	8.9 9.8 10.5 12.2 12.2	13.9 14.9 15.4 15.5 16.8
MONTH	29.4	12.5	19.7	31.6	16.2	22.7				26.3	7.6	17.3

arkansas river basin 287

07106300 FOUNTAIN CREEK NEAR PINON, CO

LOCATION.--Lat $38^{\circ}26^{\circ}23^{\circ}$, long $104^{\circ}35^{\circ}35^{\circ}$, in $NW^{1}/_{4}SE^{1}/_{4}$ sec.31, T.18 S., R.64 W., Pueblo County, Hydrologic Unit 11020003, on right bank, 0.5 mi below Pinon Road bridge, 0.9 mi northeast of Pinon, and 2.7 mi upstream from Steele Hollow Creek.

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 datum. Oct. 1, 1995 to present at various locations within 70 ft. downstream from underflow mouth (see district office for location history).

REMARKS.--No estimated daily discharges. Records fair except for discharges above 1,000 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

		DISCHA	RGE, CUBI	C FEET PE		WATER YI MEAN VA	EAR OCTOBER	1999 TO :	SEPTEMBI	ER 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	216	218	207	179	166	177	356	183	67	94	46	178
2	200	217	205	173	166	175	267	126	59	83	43	150
3	209	215	206	171	175	179	309	104	64	121	44	130
4	230	221	233	160	180	173	218	94	57	91	46	126
5	192	219	214	159	178	179	217	81	54	72	52	129
6	173	214	213	166	183	181	227	67	53	45	46	110
7	155	215	212	159	182	178	239	75	49	42	149	96
8	717	219	211	162	181	310	252	432	45	44	76	87
9	304	214	211	166	179	222	251	690	45	45	59	83
10	271	210	208	162	180	177	263	243	44	44	50	79
11	248	214	207	164	179	178	278	196	43	58	46	78
12	242	220	209	167	178	180	261	158	46	61	45	76
13	211	212	215	163	183	201	251	148	42	56	42	75
14	205	213	213	165	182	180	233	115	41	54	41	79
15	209	210	198	167	179	185	238	111	41	52	43	77
16	214	211	202	167	178	311	284	100	44	54	42	75
17	303	208	222	169	181	463	256	82	48	137	54	77
18	268	209	217	168	183	361	201	129	71	587	314	78
19	311	207	218	167	184	260	177	130	81	134	140	77
20	279	207	212	174	186	226	189	120	62	116	76	74
21	238	207	186	178	184	216	178	114	50	105	54	73
22	218	289	176	178	185	223	177	103	36	82	214	84
23	219	384	174	178	183	289	176	84	33	70	119	104
24	248	244	181	178	184	226	264	72	33	60	230	242
25	242	223	183	180	180	205	209	114	33	51	99	165
26 27 28 29 30 31	235 223 207 216 211 214	231 300 239 221 214	175 174 177 178 198 182	179 191 185 176 173 172	175 182 183 181	203 200 195 198 197 277	146 138 122 114 141	171 115 86 73 81 78	182 515 213 151 127	47 47 64 97 71 52	546 262 141 1270 311 196	117 85 71 65 60
TOTAL MEAN MAX MIN AC-FT	7628	6825	6217	5296	5220	6925	6632	4475	2429	2736	4896	3000
	246	228	201	171	180	223	221	144	81.0	88.3	158	100
	717	384	233	191	186	463	356	690	515	587	1270	242
	155	207	174	159	166	173	114	67	33	42	41	60
	15130	13540	12330	10500	10350	13740	13150	8880	4820	5430	9710	5950
MEAN	84.5	103	93.7	101	107	115	141	296	200	110	159	77.2
MAX	457	289	201	174	180	229	664	1599	1083	365	794	241
(WY)	1985	1985	2000	1996	2000	1998	1999	1999	1997	1985	1999	1999
MIN	.81	5.77	30.0	19.0	35.2	20.0	3.36	.96	8.39	4.34	3.87	.000
(WY)	1976	1979	1977	1979	1978	1978	1975	1975	1978	1976	1974	1975
	STATIST:	ICS	FOR		NDAR YEAR	I	FOR 2000 WA	TER YEAR		WATER YEA	RS 1973	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL MANNUAL MANNUAL MAILY MEA DAILY MEA SEVEN-DA CANEOUS PA	EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS		11000 79 92 330200 1010 214 132	Apr 30 Apr 21 Apr 15		62279 170 1270 33 43 2330 4.45 123500 251 178 52	Aug 29 Jun 23 Jun 10 Aug 29 Aug 29		132 438 29.4 11000 .00 a19100 b9.80 95610 246 86 4.5	Jul Aug : Apr :	1999 1978 30 1999 6 1973 18 1973 30 1999 30 1999

a From rating curve extended above 15,000 ft^3/s .

b From floodmark.

07106300 FOUNTAIN CREEK NEAR PINON, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1976 to December 1983, December 1990 to current year.

REMARKS.--Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE INST. CUBIC FEET PER SECON (00061	E, SPE- CIFIC CON- DUCT- ANCE US/CN	C WHOLD FIELD - (STAND ARD UNITS	E D TEMPER D- ATURE WATER S) (DEG (E DIS- R SOLVE C) (MG/I	ICAL, D 5 DAY (MG/L), FORM, FECAL 0.7 UM-MF (COLS. 1) 100 ML	, CALCIU DIS- SOLVE / (MG/I) AS CA	DIS D SOLV (MG/	M, SULFA - DIS- ED SOLV L (MG/I G) AS SO	DIS- ED SOLVED L (MG/L 4) AS F)
OCT 18 DEC	1215	226	945	8.3	11.0	9.3	1.0	540	83.8	26.6	250	1.9
13	1045	204	1010	8.3	1.0	11.1	2.2		87.4	28.0	250	1.9
FEB 14 APR	1000	186	999	8.4	4.5	10.4	2.6	K120	84.2	27.2	270	1.9
17 JUN	1130	264	813	8.5	12.5	8.9	1.9	K73	68.2	21.3	220	2.0
19	1030	130	1010	8.3	20.5	7.2	8.6	K3000	85.1	26.4	260	2.0
AUG 14	0915	30	1150	8.3	20.5	7.2	<1.0	560	95.0	30.0	310	2.2
DAT	P E	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) 00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ARSENIC TOTAL (UG/L AS AS)	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)
OCT 18 DEC		2.80	.040	.600	.200	4	1.8	185	184	.3	<.1	3
13		3.30	.052	.600	.200	4	1.5	187	188	. 4	.1	3
FEB 14		4.20	<.020	.500	.200	4	1.2	206	199	. 4	.1	3
APR 17		2.90	<.002	.600	.200	4	2.0	171	163	. 4	.1	3
JUN 19		2.71	<.020	1.28	.286	8	3.5	206	201	.7	.1	8
AUG 14		1.47	<.020	.454	.181	5	3.3	224	222	.3	.1	3
DAT	E	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)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)
OCT 18		2.1	9	2	6120	<10	8	<1	228	9		<.1
DEC 13		<1.0	9	3	6010	<10	9	<1	244	8	<.3	<.2
FEB 14		1.0	12	3	4750	<10	6	<1	188	6		<.1
APR 17		<1.0	9	3		<10	8	<1	198	2		<.1
JUN 19		1.9		4	11600	<10	21	<1		4	<.3	<.2
AUG 14		1.8	9	4	3360	<10	5	<1	142	2	<.3	<.2

07106300 FOUNTAIN CREEK NEAR PINON, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
OCT											
18	11	5	7	6.0	<1	<1	46	12	<.01		
DEC 13	10	6	6	6.0	<1	<1	60	21	<.01	876	483
FEB 14	10	5	10	7.3	<1	<1	51	24	<.01	437	219
APR											
17	8	6	7	6.6	<1	<1	46	14	<.01	448	319
JUN	1.0	-	1.0	10.0		. 1	100	1.0	. 01	E46	060
19	17	7	10	10.2	<1	<1	102	12	<.01	746	262
AUG 14	10	6	12	9.6	<1	<1	26	<3	<.01	148	12

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
NOV					JUN				
01	1435	206	1020	13.0	02	1205	60	1040	22.0
DEC					15	1205	44	1090	25.5
02	1400	221	1020	8.5	27	1320	436	635	22.0
JAN					JUL				
05	1215	161	1070	5.0	05	1310	80	1030	30.0
FEB					18	1030	496	630	21.5
02	1310	179	1080	7.5	21	1305	109	1010	29.5
MAR					AUG				
01	0935	191	988	5.5	08	1220	82	1060	28.0
APR					14	1000	41	1080	22.5
05	1100	220	976	13.0	22	1530	217	792	
28	1105	130	916	16.0	SEP				
MAY					01	1215	180	975	24.0
04	1205	106	947	22.5					
09	1135	537	600	15.5					
15	1245	120	952	20.5					

07106500 FOUNTAIN CREEK AT PUEBLO, CO

LOCATION.--Lat $38^{\circ}17^{\circ}16^{\circ}$, long $104^{\circ}36^{\circ}02^{\circ}$, in $SB^{1}/_{4}SW^{1}/_{4}$ 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 and crest-stage gage. 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 Oct.2, 1940 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.--No estimated daily discharges. Records fair except 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, and return flow from irrigated areas.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 4, 1921, reached a discharge of 34,000 $\mathrm{ft^3/s}$, by slope-area measurement. Flood of May 30, 1935, reached a discharge of 35,000 $\mathrm{ft^3/s}$, by slope-area measurement.

		DISCHAR	GE, CUBIC	C FEET PE		WATER Y	EAR OCTOBER	1999 TO	SEPTEMBI	ER 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	206 189 209 205 176	220 212 231 249 244	257 232 227 249 226	205 198 189 183 179	184 187 203 203 197	197 207 195 190 193	380 269 316 258 253	178 143 127 123 112	58 65 74 40 42	107 77 98 120 85	46 42 34 42 50	166 164 141 139 132
6 7 8 9 10	176 152 639 350 324	248 255 255 266 255	225 227 226 224 220	187 184 179 187 193	202 198 192 193 192	194 215 300 260 237	252 266 278 266 252	102 108 172 744 181	54 57 54 47 41	52 38 46 51 52	59 131 81 55 46	112 76 61 59 55
11 12 13 14 15	334 350 332 310 264	260 262 253 265 267	230 227 220 223 211	188 193 182 184 181	190 187 192 189 185	233 232 236 232 245	260 257 238 232 235	140 132 155 130 117	41 35 41 40 41	148 64 73 79 71	42 43 46 39 55	52 60 59 65 71
16 17 18 19 20	259 308 263 272 248	267 271 269 260 260	233 247 242 241 230	187 186 182 185 195	183 187 189 199 189	273 499 349 269 265	255 233 201 192 202	103 68 90 116 98	41 50 71 87 70	94 220 629 130 94	59 70 362 173 97	68 52 53 51 43
21 22 23 24 25	220 196 201 232 213	273 332 433 284 261	208 227 213 210 215	212 202 202 196 202	186 190 187 187	279 301 340 276 260	189 195 193 227 191	94 87 73 80 104	58 40 25 25 24	92 84 72 72 62	69 199 134 197 123	43 51 74 186 172
26 27 28 29 30 31	215 231 221 237 239 234	266 340 288 270 277	204 213 210 215 226 213	201 244 220 183 198 181	186 188 186 186 	258 248 245 253 253 330	155 146 129 135 160	156 116 83 81 66 63	113 550 199 146 139	52 48 68 92 71 55	478 258 167 850 239 175	134 100 77 73 70
TOTAL MEAN MAX MIN AC-FT	8005 258 639 152 15880	8093 270 433 212 16050	6971 225 257 204 13830	5988 193 244 179 11880	5524 190 203 183 10960	8064 260 499 190 15990	6815 227 380 129 13520	4142 134 744 63 8220	2368 78.9 550 24 4700	3096 99.9 629 38 6140	4461 144 850 34 8850	2659 88.6 186 43 5270
							, BY WATER Y					
MEAN MAX (WY) MIN (WY)	57.4 513 1985 .61 1963	70.9 303 1985 .90 1955	67.0 225 2000 1.10 1955	68.8 193 2000 1.90 1954	74.1 190 2000 1.40 1954	72.5 260 2000 1.00 1954	94.8 677 1999 1.10 1955	201 1504 1999 .28 1950	148 1104 1997 .71 1963	85.0 429 1995 .96 1964	132 852 1999 .71 1960	50.9 242 1999 .37 1978
	STATIST	ICS	FOR 1		NDAR YEAR		FOR 2000 WAT	ER YEAR		WATER YEA	RS 1922	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC		EAN EAN AN C MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		11400 79 89 335200 1070 239 131	Apr 30 Apr 21 Apr 15		850 24 40 2080 4.57 131300 269 189 52	Aug 29 Jun 25 Jun 10 Aug 29 Aug 29		95.5 440 4.42 11400 a.00 .00 b47000 c19.00 69200 197 39 1.0	May 1 Sep Jun 1	1999 1953 30 1999 12 1923 9 1945 17 1965 17 1965

a No flow at times many years.

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. Instantaneous discharge and selected water-quality data collected as part of a basin-wide water-quality assessment of the lower Arkansas River basin in Colorado are published elsewhere in this report.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis; K, based on non-ideal colony count.

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.

EXTREMES FOR CURRENT YEAR.--SPECIFIC CONDUCTANCE: Maximum, 1,990 microsiemens, Apr. 30; minimum, 482 microsiemens, May 9. WATER TEMPERATURE: Maximum, 32.9°C, July 15; minimum, 0.0°C, many days.

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

DATE	TIME	DIS CHARC INST CUBI FEE PEF SECC (0006	SE, SPE C. CIF C CON T DUC R ANC OND (US/	CIC WHO F- FIE T- (STA E AF CM) UNI	CER DLE DLD TEME AND- ATU	RE ER C)	(MG	EN, S- VED	(MG	ND, - M- L, AY (0.7 UM-1 COLS	M, AL, MF S./ ML)	KF AG (COL) PEI	CCI AL, GAR S. R ML)		IUM - ÆD /L CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
APR 01 22	0745 0845	336 290					10. 9.		3. 2.		e25 65			20 65	74.0 74.2		26.9 27.6
25 AUG	1345	94	1 115	0 8.	3 26.	5	-	-	<1.	2	K40)	K2	60	91.0)	33.6
20	1400	232	2 94	7 8.	1 26.	0	6.	6	1.	7		-	K30	00	79.5	5	27.9
DATE	DI SC (M AS	FATE :S- DLVED 1G/L SO4)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	IN D SO (U AS	IS- LVED G/L AL)		NIC AL //L AS)	ARSEN DIS SOLV (UG) AS A	S- ÆD 'L AS)	REC ERA (UG AS	AL OV- BLE /L B)	(UG AS	ON, S- VED /L B)	(UG/ AS C	ER FRD AL /L CD)
APR 01 22		 270	1.9 1.9	3.60 2.60	.040		6 6	7		2.4		14 14		15 15		.5	
JUN 25	2	290	2.3	3.10		1	2	4		2.8	3	19	4	19	6	1.2	2
AUG 20	2	260	2.0	2.60			7	16		3.9)	17	8	16	4	1.3	3
DATE	E SC (U AS	OMIUM DIS- DLVED UG/L S CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	DI SO (U AS	S- LVED G/L CU)	SOL (UG AS	S- VED /L FE)	ERAE (UG/ AS I	AL OV- BLE 'L OB)	DI SOL (UG AS	S- VED /L PB)	ERA (UG AS	E, AL OV- BLE /L MN)	MANG NESE DIS SOLV (UG/ AS M	E, S- VED VL MN)
APR 01 22 JUN		.1	8 5	<1.0 <1.0	15 		 	<1 <1		19 15		<1 <1		38 28		1 1	
25 AUG		.1	6	1.6	14		2	<1	.0	13		<1		20	9	2	
20	<	.1	17	<1.0	28		3	<1	0	66		<1		51	9	3	
DATE	TC RE ER (U AS	CCURY OTAL CCOV- CABLE JG/L 3 HG)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	NI TO (U AS	LE- UM, TAL G/L SE) 147)	(UG AS	M, S- VED /L SE)	ERAL (UG/ AS A	AL OV- BLE 'L AG)	SILV DI SOL (UG AS	S- VED /L AG)	ERA (UG AS	AL OV- BLE /L	ZINC DIS SOLV (UG/ AS Z	S- /ED /L ZN)
APR 01 22 JUN		.1	<.1 <.1	20 14	8 10	1		14. 13.		<1 <1		<1 <1		6 4		10 8	
25 AUG	<	.1	<.1	14	14	2	1	20.	7	<1		<1		4	5	6	
20			<.1	38	13	2	0	17.	8	<1		<1		12	4	9	

07106500 FOUNTAIN CREEK AT PUEBLO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

			WAIL	EK-QUALIII	DAIA, WAII	ER IEAR OC	TOPER 199	O IO SEPI	LEMDER 193	, ,		
DATE	TIM	DI CHAR INS CUB FE E PE SEC (000	GE, SPE T. CIF IC CON ET DUC R ANC OND (US/	FIC WHO N- FIE CT- (STA CE AR (CM) UNI	ER LE LD TEMPEI ND- ATURI D WATEI TS) (DEG (E DIS- R SOLVE C) (MG/L	ICAL, D 5 DAY) (MG/L	FORM, FECAI 0.7 UM-ME (COLS.	, TOCOCO L, FECAL KF AGA F (COLS/ PER L) 100 MI	CI , CALCIU AR DIS- SOLVE (MG/I AS CA	DIS- ED SOLVE (MG/L A) AS MG	DIS- D SOLVED (MG/L) AS SO4)
OCT 21	143	0 12	7 116	50 8.	5 13.0	8.8	<1.0	140	110	94.2	35.6	
DEC 07	084					10.7	1.5	110	100	93.9	35.4	300
FEB												
22 APR	090					11.3	1.9	K20	130	90.7	33.6	310
19 JUN	091	5 9	7 117	70 8.	2 9.5	10.0	<1.0	49	92	99.3	37.5	330
21 AUG	094	5 67	1 87	75 7.	9 18.0	7.8	1.2	K360	760	76.4	25.3	240
16	074	5 48	1 84	11 7.	9 16.5	8.1	<1.0	E600	3000	71.6	24.4	230
DATE	FLUO RIDE DIS SOLV (MG/ AS F	, NO2+ - DI ED SOL L (MG) AS	N, GE NO3 AMMC S- DI VED SOI /L (MC N) AS	IS- PHOR LVED TOT G/L (MG N) AS	US DIS- PAL SOLVEN DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS-	S INUM, D, TOTAL RECOV D ERABL (UG/L AS AL	ALUM- INUM, DIS- E SOLVE (UG/L) AS AL	ARSENI D TOTAI (UG/I	SOLVE L (UG/I S) AS AS	RECOVER RECOVER PROPERTY RECOVER PROPERT	BORON DIS- SOLVE UG/L AS B)	UNFLTRD D TOTAL (UG/L AS CD)
OCT 21	2.1	3.1	0 <.0)20 .60	0 .200	3720	6	6	3.4	222	207	.5
DEC 07	2.1			020 .50		3970	7	4	2.7	198	202	.6
FEB 22	1.9					2150	6	3	2.3	207	207	.3
APR 19	2.0					1340	9	3	2.5	209	208	.2
JUN 21	2.1)20 .70		7610	12	4	2.7	136	141	.5
AUG 16	2.1					8740	7	9	2.2	136	129	.8
10	2.1	2.1	0 \	.00	0 .000	0740	,		2.2	130	127	.0
	DATE	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	RECOV- ERABLE (UG/L AS CR)	SOLVED (UG/L AS CR)	(UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT 21		<.1	13	<1.0	12	3	5340	<10	11	<1	220	2
DEC		<.1	4	1.0	9	3	5510	<10	10	<1	260	2
FEB		.1	3	2.6	8	3	3650	<10	7	<1	168	2
APR					5	2						2
JUN		<.1	1	<1.0			2170	<10	4	<1	112	
AUG		.1	3	<1.0	8	2	12200	<10	19	<1	361	3
16		.1	8	3.4	25	2	15400	<10	16	<1	469	3
	DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVEI (UG/L AS HG)	RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN) (00720)
OCT 21				20	13	25	24.2	<1	<1	37	8	<.02
DEC 07				12	14			<1	<1	44	12	<.02
FEB				9	10			<1	<1	40	16	<.02
APR				8	7	19	21.1	<1	<1	24	11	<.02
JUN												
AUG				6	6	18	15.1	<1	<1	66	6	<.01
16		<.1	<.1	15	5	8	9.3	<1	<1	77	6	<.01

07106500 FOUNTAIN CREEK AT PUEBLO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

			WATER-	-QUALITY	DATA, WAT	ER YEAR O	CTOBER 199	99 TO SEPT	TEMBER 20	00		
DATE	TIME	DISCHARGED INSTITUTE OF THE PERSECOLUMN (0006)	E, SPE CIFIC C CON- T DUCT- ANCE ND (US/CM	FIEL (STAN ARD (1) UNIT	E D TEMPE D- ATUR WATE S) (DEG (E DIS- R SOLVI C) (MG/I	- ICAL, ED 5 DAY L) (MG/I), FORM, FECAI - 0.7 , UM-ME ((COLS.	CALCI DIS- SOLV (MG/ AS C	DIS ED SOLV L (MG/ A) AS M	M, SULFA - DIS- ED SOLV L (MG/ G) AS SO	DIS- ED SOLVEI L (MG/L 4) AS F)
OCT 18	1030	256	1050	7.7	8.0	10.0	1.1	270	89.	4 33.3	300	2.0
DEC 13	0830	206	1130	8.5			<1.0		99.			2.0
FEB 14	0815	193	1100	8.4		11.9	1.4	44	93.			2.0
APR 17	1000	241		8.4	9.5	9.6	1.7	K5	75.			
JUN												
19 AUG	0900	79		8.4			3.3	490	104	43.2		
14	0730	40	1570	8.3	18.5	7.6	<1.0	K57	112	62.4	420	2.4
DAT:	E	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	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)
OCT 18		2.80	<.020	.800	.100	6	2.2	190	185	.5	<.1	5
DEC 13		4.20		.600	.200	4	2.0	190	198	. 4	.1	4
FEB 14		4.70	<.020	.500	.200	5	2.0	200	195	.5	.1	4
APR 17		3.20	<.002	.700	.200	5	2.3	170	164	.6	.1	4
JUN 19		2.66	<.020	.623	.137	6	3.5	224	224	.5	.1	4
AUG 14		3.04	<.020	.198	.116	5	3.8	251	249	.2	<.1	1
11		3.01	1.020	.170	.110	J	3.0	231		. 2	***	1
DAT		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)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)
OCT 18		2.2	12	3	9810	<10	12	<1	346	6		
DEC 13					4650	<10	6	<1	189	8		
FEB		<1.0	13	3								
14 APR		<1.0	11	3	5820	<10	7	<1	218	4	<.1	<.1
17 JUN		<1.0	11	2		<10	10	<1	257	2		<.1
19 AUG		2.6	15	5	5450	<10	9	<1	283	3	<.3	<.2
14		2.0	6	5	1280	<10	2	<1	49	7	<.3	<.2
DAT:	E	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (00720)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
OCT		15	6	17	17 6	<1	~1	63	11	~ O1		
18 DEC		15	6	17	17.6		<1	63	11	<.01		
13 FEB		10	7	20	18.4	<1	<1	41	15	<.01	691	385
14 APR		13	6	20	16.1	<1	<1	53	13	<.01	553	288
17 JUN		10	6	15	13.8	<1	<1	50	10	<.01	598	389
19 AUG		13	8	34	32.4	<1	<1	40	5	<.01		
14		10	8			<1	<1	10	<3	<.01	44	4.7

07106500 FOUNTAIN CREEK AT PUEBLO, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

51	FECTFIC	CONDUCTIO	NCE (FIE	ZKODIENEKO/	CI1 III 23	DEG. C),	WAILK IL	00101		TO SEFTERE	DIC 2000	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		1	OVEMBER		D	ECEMBER			JANUARY	
1 2 3 4 5	1190 1180 1190 1200 1200	1140 1150 1140 1150 1160	1160 1160 1160 1160 1180	1190 1190 1200 1200 1200	1160 1160 1160 1170 1170	1180 1180 1180 1180 1180	1160 1160 1160 1140 1160	1130 1130 1130 1090 1050	1140 1150 1140 1120 1110	1170 1170 1180 1280	1140 1140 1130 1150	1160 1160 1170 1220
6 7 8 9 10	1230 1260 1220 1060 1080	1160 1200 727 940 1050	1190 1220 917 1020 1070	1200 1200 1200 1200 1200	1160 1160 1160 1170 1160	1180 1180 1180 1190 1180	1160 1150 1140 1170 1160	1140 1120 1110 1100 1130	1150 1130 1120 1130 1150	1260 1260 1270 1260 1270	1230 1200 1200 1200 1200	1240 1220 1240 1230 1230
11 12 13 14 15	1100 1110 1130 1210 1160	1060 1060 1090 1100 1120	1080 1090 1110 1140 1140	1190 1280 1180 1180 1180	1160 1150 1150 1150 1150	1180 1170 1170 1170 1160	1160 1140 1150 1140 1140	1140 991 1090 1080 1030	1150 1110 1130 1130 1100	1250 1250 1250 1240 1240	1140 1160 1220 1130 1210	1210 1230 1230 1210 1220
16 17 18 19 20	1140 1110 1100 1160 1150	1030 1070 960 1060 1070	1110 1090 1080 1100 1100	1180 1170 1180 1180 1180	1140 1140 1080 1090 1140	1160 1160 1120 1160 1160	1160 1150 1140 1140 1130	1120 1110 1090 1090 1100	1140 1120 1120 1120 1110	1250 1230 1230 1220 1210	1200 1200 1200 1200 1200	1220 1210 1210 1210 1210
21 22 23 24 25	1150 1130 1140 1140 1130	1100 1100 1110 1100 1100	1120 1110 1120 1120 1120	1180 1190 1120 1080 1090	1150 1090 968 1010 1040	1170 1130 1030 1040 1070	1190 1180 1160 1170 1160	1090 1120 1060 1120 1110	1120 1150 1140 1150 1150	1170 1160 1150 1140 1150	1130 1120 1080 1110 1100	1150 1140 1120 1130 1120
26 27 28 29 30 31	1140 1160 1170 1170 1180 1190	1110 1130 1140 1150 1150 1160	1130 1140 1160 1160 1170 1180	1110 1110 1160 1140 1150	1080 1040 1070 1090 1110	1090 1070 1090 1110 1130	1170 1180 1170 1180 1170 1160	1140 1140 1140 1140 1120 1070	1160 1160 1160 1160 1140 1140	1120 1130 1220 1220 1240	1090 1060 1090 1150 1180	1110 1100 1150 1190 1210
MONTH	1260	727	1120	1280	968	1140	1190	991	1140			
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	1230 1330 1260 1240 1210	1140 1140 1180 1180 1170	1200 1220 1220 1200 1190	1220 1290 1230 1200 1180	1070 1120 1190 1170 1080	1160 1210 1200 1190 1150	1140 1150 1160 1140 1140	1010 1090 1060 1110 1110	1080 1130 1110 1130 1130	1070 1090 1110 1160 1180	983 1030 1080 1060 997	1030 1060 1090 1130 1150
6 7 8 9 10	1200 1190 1180 1180 1180	1160 1160 1150 1160 1150	1180 1170 1170 1170 1160	1160 1350 1310 1130 1120	1120 785 1060 1060 1060	1130 1080 1130 1100 1100	1130 1100 1060 1030 1000	1090 1050 992 976 959	1110 1070 1020 996 980	1170 1170 1620 863 961	1110 1070 863 482 806	1150 1120 1180 659 904
11 12 13 14 15	1180 1180 1180 1180 1180	1150 1140 1150 1110 1150	1160 1160 1160 1150 1160	1140 1130 1090 1100 1130	1030 1050 1040 1040 784	1080 1090 1060 1060 1060	979 946 949 947 946	934 925 933 926 911	957 935 943 939 923	1010 1050 1050 1080 1140	954 1000 1030 1040 1070	982 1020 1040 1060 1100
16 17 18 19 20	1130 1150 1150 1230 1230	1110 1110 1100 1100 1160	1120 1130 1120 1160 1190	1070 1080 1130 1160 1170	987 893 1080 1090 1150	1020 1010 1100 1120 1160	923 946 978 981 978	896 903 941 959 939	909 922 958 971 956	1140 1150 1180 1120 1120	1080 1050 1060 1080 1090	1110 1080 1130 1100 1110
21 22 23 24 25	1180 1170 1160 1160	1150 1130 1140 1130	1160 1150 1150 1140	1180 1230 1210 1190 1210	1140 1090 1120 1150 1170	1160 1170 1170 1170 1190	977 979 982 974 975	951 946 959 917 917	968 964 970 944 941	1140 1180 1250 1240 1530	1100 1120 1150 1080 1060	1120 1160 1200 1140 1170
26 27 28 29 30 31	1140 1160 1150 1130	1100 1090 1090 1020	1120 1130 1110 1090	1210 1210 1210 1200 1200 1180	1160 1170 1180 1010 1180 989	1190 1190 1200 1190 1190 1090	1020 1020 1070 1080 1990	968 993 1020 1060 979	991 1010 1040 1060 1160	1310 1090 1140 1180 1190 1220	963 1010 1080 1090 1100 1090	1070 1040 1110 1150 1160 1170
MONTH				1350	784	1130	1990	896	1010	1620	482	1090
				1550	.01			0,00	-010	1020	102	1000

295

2.7

8.9 .0

9.0 .0 2.4

07106500 FOUNTAIN CREEK AT PUEBLO, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	
1 2 3 4 5	1240 1280 1360 1320 1260	1090 1110 1210 1220 1230	1160 1240 1270 1240 1250	1190 1240 1250 1200 1270	1180 1040	1150 1210 1200 1140 1220	1410 1440 1460 1410 1420	1300 1380 1400 1360 1320	1360 1410 1420 1380 1380	1080 1100 1120 1140 1150	999 1050 1090 1110 1120	1040 1070 1100 1120 1130
6 7 8 9 10	1260 1280 1290 1380 1400	1220 1240 1200 1370 1360	1240 1260 1270 1370 1380	1430 1470 1480 1470 1500	1360 1380 1370	1350 1420 1430 1410 1400	1330 1300 1300 1370 1470	1210 902 1150 1290 1360	1240 1190 1230 1330 1400	1190 1330 1300 1250 1280	1140 1180 1190 1230 1250	1160 1210 1250 1240 1260
11 12 13 14 15	1390 1430 1400 1400 1440	1320 1320 1330 1370 1380	1360 1370 1370 1390 1400	1630 1640 1440 1470 1510	1420 1380 1380 1420	1410 1480 1410 1430 1460	1500 1490 1530 1540 1450	1410 1420 1400 1430 1320	1450 1440 1470 1490 1420	1300 1300 1320 1320 1320	1260 1260 1290 1270 1280	1280 1280 1300 1300 1290
16 17 18 19 20	1550 1450 1340 1260 1240	1420 1340 1220 1160 1140	1450 1390 1280 1210 1200	1510 1490 994 1160 1210	1350 864 627 979 1130	1450 1190 792 1090 1170	1350 1370 1460 1190 1240	1310 1240 906 982 1190	1330 1340 1120 1110 1220	1350 1340 1340 1330 1340	1280 1280 1300 1290 1300	1300 1310 1320 1300 1320
21 22 23 24 25	1300 1350 1390 1360 1380	1200 1290 1320 1330 1300	1250 1320 1340 1340 1350	1230 1260 1340 1340 1390	1210 1260 1070	1210 1240 1290 1270 1350	1600 1600 1210 1240 1470	1240 870 1030 771 955	1290 1200 1140 1040 1110	1330 1340 1340 1340 1140	1300 1270 1190 973 965	1320 1300 1230 1160 1020
26 27 28 29 30 31	1980 910 1030 1100 1120	889 679 862 1030 1070	1370 789 970 1060 1100	1430 1440 1470 1300 1240 1300	1370 1400 1230 1130 1140 1240	1400 1420 1330 1220 1200 1280	1380 1000 1100 1140 947 1010	840 1000	919 915 1050 729 842 975	1180 1260 1280 1300 1320	1140 1180 1250 1270 1290	1160 1210 1270 1290 1310
MONTH	1980	679	1270	1640	627	1290	1600	505	1220	1350	965	1230
		TEMPE	RATURE,	WATER (DEG	G. C), WA	TER YEAR	OCTOBER 1	999 TO S	EPTEMBER	2000		
DAY	MAX	TEMPE MIN	RATURE, MEAN	WATER (DEC	G. C), WA	TER YEAR	OCTOBER 1	999 TO S	EPTEMBER MEAN	2000 MAX	MIN	MEAN
		MIN OCTOBER	MEAN	MAX N	MIN IOVEMBER	MEAN	MAX D	MIN ECEMBER	MEAN	MAX	JANUARY	
DAY 1 2 3 4 5		MIN OCTOBER	MEAN	MAX 11.9 11.0 12.2 12.8 12.6	MIN IOVEMBER 6.1 3.6 3.9 4.2 5.5	MEAN 8.4 7.2 7.6 8.3 8.6	MAX D: 9.0 7.6 5.1 4.6 4.6	MIN ECEMBER 5.1 4.2 2.6 1.1	MEAN 6.5 5.5 4.0 2.6 1.8	MAX		
1 2 3 4	19.3 17.1 15.0 18.1	MIN OCTOBER 8.6 7.6 7.7 6.6 8.2	MEAN	MAX 11.9 11.0 12.2 12.8 12.6 13.0 13.0 13.4 13.7	MIN IOVEMBER	MEAN 8.4 7.2 7.6 8.3 8.6	MAX D: 9.0 7.6 5.1 4.6 4.6	MIN ECEMBER 5.1 4.2 2.6 1.1	MEAN 6.5 5.5 4.0 2.6 1.8	6.3 5.9 3.0 2.5 6.0	JANUARY .7 1.1 .0 .0	3.3 3.5 1.1 .7
1 2 3 4 5 6 7 8 9	19.3 17.1 15.0 18.1 19.5 18.5 18.0 17.3 19.6 19.4	MIN OCTOBER 8.6 7.6 7.7 6.6 8.2 10.1 12.4 9.6 8.9 9.6	MEAN 12.9 11.9 11.0 11.9 13.3	MAX 11.9 11.0 12.2 12.8 12.6 13.0 13.4 13.7 12.7	MIN IOVEMBER 6.1 3.6 3.9 4.2 5.5 4.3 4.7 5.7 7.2	8.4 7.2 7.6 8.3 8.6 8.4 8.7 9.3 9.9	MAX D: 9.0 7.6 5.1 4.6	MIN ECEMBER 5.1 4.2 2.6 1.1	MEAN 6.5 5.5 4.0 2.6 1.8	MAX 6.3 5.9 3.0 2.5 6.0 5.4 3.8 5.8 4.2 6.0 5.4 8.2 6.3 5.6	JANUARY .7 1.1 .0 .0 .5 1.4 .0 .0 .0 .0	3.3 3.5 1.1 .7 2.6 2.8 1.2 2.3 1.5
1 2 3 4 5 6 7 7 8 9 10 11 12 13 14	19.3 17.1 15.0 18.1 19.5 18.5 18.5 19.6 19.4 20.1 19.7 19.1	MIN OCTOBER 8.6 7.6 7.6 6.6 8.2 10.1 12.4 9.6 8.9 9.6 9.9 9.2 9.8 9.0	MEAN 12.9 11.9 11.0 11.9 13.3 14.0 14.0 13.1 13.8 14.2 14.5 14.1 13.9 13.2	MAX 11.9 11.0 12.2 12.8 12.6 13.0 13.4 13.7 12.7	MIN IOVEMBER 6.1 3.6 3.9 4.2 5.5 4.3 4.7 7.2 5.4 5.3 4.9 4.6 4.8	MEAN 8.4 7.2 7.6 8.3 8.6 8.4 8.7 9.3 9.9 8.8 8.8 8.5 8.4 8.2	9.0 7.6 5.1 4.6 4.6 6.3 5.6 2.5 3.8 3.0 5.4 4.6 2.7	MIN ECEMBER 5.1 4.2 2.6 1.1 .0 .2 1.1 1.3 .0 .0 .0 .5 .0 .0	6.5 5.5 4.0 2.6 1.8 2.8 3.0 2.0 1.7 1.4	MAX 6.3 5.9 3.0 2.5 6.0 5.4 3.8 5.8 4.2 6.0 5.4 8.2 6.3 5.6	.7 1.1 .0 .0 .5 1.4 .0 .0 .0 .0 .0	3.3 3.5 1.1 .7 2.6 2.8 1.2 2.3 1.5 2.2 2.2 4.1 3.0 2.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	19.3 17.1 15.0 18.1 19.5 18.5 11.3 19.6 19.4 20.1 19.7 19.1 17.1 15.9 12.9 10.8 10.2 12.5	MIN OCTOBER 8.6 7.6 7.6 6.6 8.2 10.1 12.4 9.6 8.9 9.6 9.9 9.2 9.8 9.0 10.2 7.3 5.6 6.7 7.5	MEAN 12.9 11.9 11.0 11.9 13.3 14.0 14.0 13.1 13.8 14.2 14.5 14.1 13.9 13.2 12.8	11.9 11.0 12.2 12.8 12.6 13.0 13.0 13.4 13.7 12.7 13.0 12.5 12.9 11.9 12.1	MIN IOVEMBER 6.1 3.6 3.9 4.2 5.5 4.3 4.7 5.7 2 5.4 5.3 4.9 4.6 4.8 4.4 4.6 4.8 5.3 2.6	MEAN 8.4 7.2 7.6 8.3 8.6 8.4 8.7 9.3 9.9 8.8 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.6	9.0 7.6 5.1 4.6 4.6 2.5 3.0 5.4 4.6 2.7 3.2 2.1 5.4 4.8	MIN ECEMBER 5.1 4.2 2.6 1.1 .0 .2 1.1 1.3 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	MEAN 6.5 5.5 4.0 2.6 1.8 2.8 3.0 2.0 1.7 1.4 2.4 1.7 1.0 .6 2.2 3.0 2.0 2.0	6.3 5.9 3.0 2.5 6.0 5.4 3.8 5.8 5.8 6.0 5.4 8.2 6.3 6.6 6.8 8.0 8.2 8.9	JANUARY .7 1.1 .0 .0 .5 1.4 .0 .0 .0 .0 .0 .0 .1 .7 .7 1.3 2.4 3.6	3.3 3.5 1.1 .7 2.6 2.8 1.2 2.3 1.5 2.2 2.2 4.1 3.0 2.3 3.3 3.3

MONTH 20.1 4.4 11.5 13.7 .0 7.2

07106500 FOUNTAIN CREEK AT PUEBLO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		12.1.2	MAIONE,	WAIER (DEC	3. C/, W		OCTOBER 1		JEI IENEDEK	2000		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	5.3 7.7 8.6 7.2 7.2	.0 .0 2.1 2.4 .5	1.7 3.2 4.9 4.4 3.9	1.2	3.8 4.7 2.9 3.9 4.9	7.1 5.9 6.6 7.9 7.9		4.7 5.6 3.8 4.1 8.3	7.5 7.3 6.6 8.1 10.5	18.5 21.9 24.0 24.7 25.5	7.8 8.1 9.6 11.1 11.6	12.4 14.6 16.3 17.3 18.1
6 7 8 9 10	8.5 9.2 8.3 6.7 6.5	1.5 1.6 1.4 4.0 2.0	4.8 5.1 4.9 5.0 4.3	10.3 11.3 9.1 9.6 9.0	4.0 5.3 4.8 4.0 3.7	7.0 7.8 6.9 6.1 5.9	14.7 13.3 14.2 15.8 15.1	10.2 8.4 6.5 8.6 10.8	11.8 10.9 10.2 11.3 12.3	18.6 22.6 14.6 20.1 23.9	11.7 10.9 11.2 10.2 11.1	15.3 15.6 12.5 14.6 16.8
11 12 13 14 15	3.9 6.8 6.4 9.4 10.5	1.8 1.1 1.3 .7 3.5	2.7 3.4 3.3 4.8 6.4	10.0 9.7 11.3 11.1 9.9	3.6 4.9 3.2 4.0 3.4	6.4 7.0 7.0 7.2 6.6	12.3 13.1 19.4 17.8 13.1	10.7 8.6 9.8 9.2 6.1	11.6 10.8 14.0 13.1 9.1	24.3 20.2 19.7 22.2 24.0	11.7 8.7 7.6 8.5 10.1	16.7 14.1 13.3 14.8 16.8
16 17 18 19 20	9.4 7.9 7.9 7.6 6.6	2.1 2.4 1.7 .0	5.7 4.7 4.2 3.6 3.4	10.5 10.8 9.7 9.7 8.0	2.7 3.0 5.8 2.7 4.3	6.1 6.6 7.2 6.2 6.0	17.0 18.3 18.9 16.4 19.3	4.4 7.2 7.8 6.2 5.6	10.3 12.1 12.5 10.5 12.1	17.6 15.3 15.0 22.9 21.9	8 4	14.2 11.3 11.3 15.0 15.5
21 22 23 24 25	11.3 9.2 12.3 10.3 8.1	1.4 3.1 4.3 3.8 2.1	6.0 6.2 7.9 6.9 4.8	6.0 5.6 13.8 15.4 15.1	3.0 3.2 4.8 6.7 7.6	4.2 4.4 8.5 9.3 10.0	19.7 16.9	7.6 9.0 9.5 9.0 7.6	13.5 12.4 12.4 14.1 13.1	23.8 26.0 27.5 21.8 25.0	9.9 11.5 12.8 14.2 13.7	16.8 18.4 19.7 17.7 18.1
26 27 28 29 30 31	9.5 10.6 10.3 12.2	.5 1.5 2.6 5.0	4.3 5.6 6.2 7.7	13.2 13.9 11.8 12.2 11.1 8.2	8.3 8.2 9.8 9.0 8.0 3.4	10.5 10.4 10.6 10.5 10.0 5.9	21.8 21.9 18.3 21.1 11.8	8.1 9.3 9.2 9.6 7.1	14.4 15.2 13.7 14.3 8.9	23.0 25.4 26.6 26.0 28.0 27.0	14.4 12.2 12.4 13.6 13.0 14.8	17.9 18.2 18.9 19.1 19.2
	10.0	0	4 0	15.4	2.7	7.4	21.9	3.8	11.5	28.0	7.6	16.1
MONTH	12.3	.0	4.8	13.4	2.,			5.0	11.5			
											MIN	
MONTH	MAX	MIN JUNE	MEAN	MAX	MIN	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBE	MEAN
		MIN			MIN		MAX	MIN		MAX		MEAN
DAY 1 2 3 4	MAX 26.3 24.7 28.6 27.4	MIN JUNE 12.5 14.5 13.7 13.3 14.6	MEAN 18.9 18.0 19.2 19.3	MAX 31.7 31.0 29.0 31.8	MIN JULY 17.7 18.6 20.3 18.7 17.3	MEAN 23.6 24.3 23.7 24.4	MAX 29.4 29.1 30.6 31.5	MIN AUGUST 16.5 17.5 18.5 18.9	MEAN 22.2 22.5 23.5 23.4	MAX 26.4 25.8 21.5 24.3	17.5 16.6 16.4 15.2	MEAN R 21.3 20.5 19.1 19.8
DAY 1 2 3 4 5 6 7 8 9 10	MAX 26.3 24.7 28.6 27.4 28.4 26.9 28.8 29.2 27.2	MIN JUNE 12.5 14.5 13.7 13.3 14.6 13.9 13.9 13.0 15.0 14.5 16.3	MEAN 18.9 18.0 19.2 19.3 19.8 19.3 20.3 20.3 20.2	MAX 31.7 31.0 29.0 31.8 29.8 31.6 28.2 31.3	MIN JULY 17.7 18.6 20.3 18.7 17.3 17.1 17.9 17.9 17.8	MEAN 23.6 24.3 23.7 24.4 22.7 23.0 22.7 21.9 23.4	MAX 29.4 29.1 30.6 31.5 29.8 27.7 25.7 30.5 30.4	MIN AUGUST 16.5 17.5 18.5 18.9 18.2 20.2 18.8 16.8 17.0 18.9 18.8 19.5	MEAN 22.2 22.5 23.5 23.4 23.0 23.3 21.6 23.8 22.9	MAX 26.4 25.8 21.5 24.3 26.7 26.3 25.8 24.1 25.6	SEPTEMBE 17.5 16.6 16.4 15.2 17.0 17.7 16.9 15.7 15.1	MEAN 21.3 20.5 19.1 19.8 21.3 21.2 20.3 19.7 19.9
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	MAX 26.3 24.7 28.6 27.4 28.4 26.9 28.8 297.2 27.0 28.2 24.4 27.3 27.5	MIN JUNE 12.5 14.5 13.7 13.3 14.6 13.9 13.1 14.0 15.0 13.6 14.5 16.3 15.6 14.7	18.9 18.0 19.2 19.3 19.8 19.3 20.3 20.2 19.4 20.2 20.6 20.0	MAX 31.7 31.0 29.0 31.8 29.8 31.6 28.2 31.3 31.4 31.2 28.6 31.5 32.7	MIN JULY 17.7 18.6 20.3 18.7 17.3 17.1 17.9 17.8 18.9 16.6 17.9 18.0 18.7	MEAN 23.6 24.3 23.7 24.4 22.7 23.0 22.7 21.9 23.4 23.6 22.3 22.3 23.8 24.7	MAX 29.4 29.1 30.6 31.5 29.8 27.7 25.7 30.4 31.8 32.2 29.0 32.3 31.0	MIN AUGUST 16.5 17.5 18.5 18.9 18.2 20.2 18.8 16.8 17.0 18.9 18.8 19.5 19.0 19.1	MEAN 22.2 22.5 23.5 23.4 23.0 23.3 21.6 23.8 22.9 24.3 24.0 22.5 24.6 23.5	MAX 26.4 25.8 21.5 24.3 26.7 26.3 25.8 24.1 25.6 25.9 27.1 25.8 26.7 24.8	17.5 16.6 16.4 15.2 17.0 17.7 16.9 15.7 15.1 14.1 14.1 13.9 14.0 15.5	MEAN R 21.3 20.5 19.1 19.8 21.3 21.2 20.3 19.7 19.9 19.4 19.7 19.1 19.8 19.8
DAY 1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19	MAX 26.3 24.7 28.6 27.4 28.4 26.9 28.8 29.2 27.2 27.0 28.2 24.4 27.3 27.5 28.0 26.9 21.2 22.4 25.5	MIN JUNE 12.5 14.5 13.7 13.3 14.6 13.9 13.1 14.0 15.0 13.6 14.5 16.3 15.6 14.7 13.9 14.4 12.7 15.0 15.3	MEAN 18.9 18.0 19.2 19.3 19.8 19.3 20.3 20.3 20.2 19.4 20.2 20.6 18.6 16.5 17.3 19.5	MAX 31.7 31.0 29.0 31.8 29.8 31.6 28.2 31.3 31.4 31.2 28.6 31.5 32.7 32.9 29.0 27.9 28.2 30.3	MIN JULY 17.7 18.6 20.3 18.7 17.7 17.9 17.9 17.9 17.9 17.9 17.9 18.9 18.9 18.7 18.7 19.0 18.5 17.2 18.1	MEAN 23.6 24.3 23.7 24.4 22.7 23.0 22.7 21.9 23.4 23.6 22.3 23.8 24.7 24.3 22.4 22.1 22.0 23.5	29.4 29.1 30.6 31.5 29.8 27.7 30.5 30.4 31.8 32.2 29.0 32.3 31.0 30.1 28.5 26.0 25.6	MIN AUGUST 16.5 17.5 18.5 18.9 18.2 20.2 18.8 16.8 17.0 18.9 18.9 19.5 19.0 19.1 19.4 18.1 18.5 19.7	MEAN 22.2 22.5 23.5 23.4 23.0 23.3 21.6 23.8 22.9 24.3 24.0 22.5 24.6 23.5 23.1	26.4 25.8 21.5 24.3 26.7 26.3 25.8 24.1 25.6 25.9 27.1 25.8 24.9 24.8 24.9	SEPTEMBE 17.5 16.6 16.4 15.2 17.0 17.7 16.9 15.7 15.1 14.1 13.9 14.0 15.5 15.4 15.5 14.3 15.6 13.7	MEAN 21.3 20.5 19.1 19.8 21.3 21.2 20.3 19.7 19.9 19.4 19.7 19.1 19.8 19.8 19.5 19.8 19.5
DAY 1 2 3 4 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18 19 20 21 22 23 24	MAX 26.3 24.7 28.6 27.4 28.9 29.2 27.0 28.2 24.4 27.3 27.5 28.0 26.9 21.2 22.4 27.1 27.4 29.4 27.3 27.5	MIN JUNE 12.5 14.5 13.7 13.3 14.6 13.9 13.1 14.0 15.0 13.6 14.5 16.3 15.6 14.7 13.9 14.4 12.7 15.0 15.3	MEAN 18.9 18.0 19.2 19.3 19.8 20.3 20.3 20.2 20.6 20.0 19.6 18.6 16.5 17.3 19.5 20.9 21.5 20.9 21.5	MAX 31.7 31.0 29.0 31.8 29.8 31.6 28.2 31.3 31.4 31.2 28.6 31.5 32.7 32.9 29.0 27.9 28.2 30.3 30.0 29.7 30.3 28.8 27.0	MIN JULY 17.7 18.6 20.3 18.7 17.3 17.1 17.9 17.9 17.9 17.9 18.8 18.0 18.7 19.0 18.7 19.0 18.5 17.2 18.1 19.5	MEAN 23.6 24.3 23.7 24.4 22.7 23.0 22.7 21.9 23.4 23.6 22.3 23.8 24.7 24.3 22.4 22.1 22.0 23.5 23.9 22.9 23.0 22.7 21.6	MAX 29.4 29.1 30.6 31.5 29.8 27.7 25.7 30.5 30.4 31.8 32.2 29.0 32.3 31.0 30.1 28.5 26.0 25.6 29.4 28.8 29.1 27.1 28.2 26.6	MIN AUGUST 16.5 17.5 18.9 18.2 20.2 18.8 16.8 17.0 18.9 18.8 19.5 19.0 19.1 18.5 19.9 18.8 19.5 19.0 19.1 18.5 19.7 18.5 17.3 18.3 17.0 17.6	MEAN 22.2 22.5 23.5 23.4 23.0 23.8 22.9 24.3 24.0 22.5 24.6 23.5 23.1 21.9 21.5 22.6 21.8 21.6 22.0	26.4 25.8 21.5 24.3 26.7 26.3 25.8 24.1 25.6 25.9 27.1 25.8 24.9 24.8 24.9 24.8 24.9 24.8 24.9 19.1	SEPTEMBE 17.5 16.6 16.4 15.2 17.0 17.7 16.9 15.7 15.1 14.1 13.9 14.0 15.5 15.4 15.5 14.3 15.6 13.7 12.8 9.6 13.5 10.8 9.2	MEAN R 21.3 20.5 19.1 19.8 21.3 21.2 20.3 19.7 19.9 19.4 19.7 19.1 19.8 19.8 19.8 19.5 19.3 18.5 19.3 18.5 14.7

07107900 GREENHORN CREEK NEAR RYE, CO

LOCATION.--Lat $37^{\circ}55^{\circ}14^{\circ}$, long $104^{\circ}57^{\circ}21^{\circ}$, in $SW^{1}/_{4}NW^{1}/_{4}$ sec.36, T.24 S., R.68 W., Pueblo County, Hydrologic Unit 11020002, on right bank 20 ft upstream from road bridge in Rye Mountain Park and 1.4 mi west of Post Office in Rye.

PERIOD OF RECORD. -- October 1973 to October 1980, October 1998 to current year.

GAGE.--Water-stage recorder with satellite telemetery. October 1973 to September 1979, at site 5 ft downstream at different datum. Elevation of gage is 7,220 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and those above 35 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.

		DISCHAR	GE, CUBIC	FEET PER	R SECOND, W	VATER YE MEAN VA		R 1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.9 2.8 2.6 2.5 2.5	3.3 3.2 3.1 3.0 3.0	3.5 3.5 2.7 2.6 3.0	e3.0 e2.7 e2.5 e2.5 e2.5	e2.6 e2.7 e2.8 e2.8 e2.8	2.0 2.0 2.1 2.1 2.2	3.7 3.9 e4.2 4.6 6.5	15 14 15 18 25	8.8 8.7 8.5 8.0 8.1	3.8 3.6 3.3 3.5 4.1	2.4 2.4 2.5 2.7 3.0	2.5 2.4 2.5 2.4 2.3
6 7 8 9 10	2.5 3.2 2.9 2.6 2.5	3.0 3.0 3.2 3.3 3.2	2.5 2.6 2.6 2.5 2.6	e2.5 e2.5 e2.6 e2.7 e2.7 e2.7	e2.8 e2.8 e2.7 e2.6 e2.5	2.1 2.2 2.1 2.1 2.3	8.0 7.4 6.0 6.0 6.5	23 20 22 19 25	7.4 6.4 6.1 6.0 5.8	4.1 4.3 4.0 3.7 3.5	2.9 2.7 2.5 2.4 2.4	2.3 2.4 2.6 2.6 2.3
11 12 13 14 15	2.7 2.8 2.9 3.0 3.2	3.2 3.3 3.2 3.1 3.1		e2.8 e2.9 e3.0 e3.0	e2.5	e2.5 2.4 2.3 2.1 2.2	6.4 5.9 6.4 7.1 6.8	26 17 13 12 12	5.4 4.8 4.6 4.3 4.0	3.9 4.3 4.2 3.7 3.4	2.6 2.9 2.7 2.5 2.5	2.2 2.3 2.3 2.2 2.1
16 17 18 19 20	3.4 3.5 3.8 4.0 3.9	3.0 3.0 3.2 3.2 3.4	2.5 e2.5 e2.5 e2.5 e2.5	e3.0 e3.0 e3.0 e3.0 e3.0	e2.1 e2.1 e2.1 e2.1 e2.0	2.2 2.6 2.5 2.8 2.8	6.0 6.1 7.0 7.3 6.8	11 9.1 7.7 7.7 8.3	3.9 4.1 4.1 3.9 3.7	3.5 4.2 3.7 3.0 2.8	2.9 2.8 2.9 2.7 2.6	2.1 2.0 1.9 1.9 2.1
21 22 23 24 25	3.9 3.9 3.6 3.2				e2.0 e2.0 e2.0 e2.0 e2.0			7.5 8.7 11 12 12	3.6 3.6 3.5 3.4 3.5	2.8 2.9 2.8 2.8 2.7	2.5 3.1 2.6 2.6 2.7	2.1 2.6 2.4 2.3 2.3
26 27 28 29 30 31	3.2 3.2 3.3 3.3 3.2 3.2	3.6 3.5 3.5 3.6	e2.7 e2.8 e2.9 e3.0 e3.0	e2.8 e2.6 e2.5 e2.5 e2.5 e2.5	e2.0 e2.0 e2.0 e2.0	3.4 3.5 3.6 3.5 3.4 3.5	6.5 9.4 16 17 16	11 10 10 11 11 9.7	4.1 4.9 4.4 4.1 3.9	2.7 2.7 2.9 2.8 2.6 2.6	2.7 2.6 2.7 2.8 2.6 2.6	2.1 2.1 2.0 2.0 2.0
TOTAL MEAN MAX MIN AC-FT	194	195	165	172	67.8 2.34 2.8 2.0 134	162	441	7.5 860	3.4 309	104.9 3.38 4.3 2.6 208	82.5 2.66 3.1 2.4 164	67.3 2.24 2.6 1.9 133
					ZEARS 1974							
MEAN MAX (WY) MIN (WY)	3.28 7.09 1977 1.37 1979	2.51 4.06 1977 .88 1979	1.84 2.68 2000 1.04 1974	1.80 2.79 2000 1.24 1979	1.90 3.08 1977 1.34 1975	2.42 3.59 1974 1.64 1978	4.86 7.41 2000 3.92 1975	11.9 23.5 1999 4.75 1978	10.1 22.3 1975 2.54 1978	5.84 18.6 1975 1.10 1978	4.07 6.96 1999 1.17 1978	2.57 4.19 1976 .90 1978
SUMMARY	STATISTI	CS	FOR 1	.999 CALEN	IDAR YEAR	F	OR 2000 W	ATER YEAR		WATER YE	ARS 1974	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN AN AN AN AN AN AK FLOW ACK STAGE ACC-FT) DS		2308.8 6.33 31 2.0 2.0 4580 17 3.2 2.2	May 22 Jan 1		1581.7 4.32 26 1.9 2.0 b47 5.44 3140 8.0 3.0			4.44 6.44 2.05 69 a.60 .63 c340 d3.90 3210 9.4 2.7 1.3		1975 1978 10 1975 1978 13 1978 13 1978 10 1975 10 1975

e Estimated.

a Also occurred Nov 14-16, 1978.

b From rating curve extended above 31 ft³/s.

c From slope-area measurement of peak flow.

d Site and datum then in use; maximum gage height, 5.63 ft, Apr 29, 1999.

07108100 GRANEROS CREEK NEAR RYE, CO

LOCATION.--Lat $37^{\circ}54^{\circ}47^{\circ}$, long $104^{\circ}55^{\circ}31^{\circ}$, in $SE^{1}/_{4}SE^{1}/_{4}$ sec.31, T.24 S., R.67 W., Pueblo County, Hydrologic Unit 11020003, on right bank at downstream side of culvert on Greenhorn Road, and 0.7 mi southeast of Rye.

DRAINAGE AREA.--4.32 mi².

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

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,770 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream may be affected by upstream 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.

		DISCHAF	RGE, CUBI	C FEET PE	R SECOND, DAILY	WATER YEA		1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5		1.6 1.5 1.5 1.4 1.3	.50 .47 .36 .18 .37	e.50 e.50 e.50 e.50 e.45	e.45 e.45 e.45 e.45 e.45		1.3 1.3 1.3 1.6 4.3	4.6 5.5 6.6 7.0 6.9	5.2 5.4 5.1 4.7 5.0	.30 .39 .19 .10	.00 .00 .00 .00	.01 .00 .00 .00
6 7 8 9 10	.14 .27 .19 .15	1.2 1.1 1.0 1.2 1.1	.52 .62 .57 .55	e.45 e.45 e.45 e.45 e.45	e.45 e.45 e.45 e.40 e.40	.75 .83 .78 .68	5.9 5.0 3.3 2.9 3.6	6.5 5.8 6.6 6.1 5.8	4.7 3.9 3.7 3.4 3.0	.03 .03 .04 .02	.00 .01 .00 .00	.00 .00 .00 .00
11 12 13 14 15	.10 .12 .16 .18 .21	1.0 .90 .84 .70	.52 .49 .47 .44 .42	e.45 e.45 e.45 e.45 e.45	e.40 e.40 e.40 e.40 e.40	.67 .66 .61 .58	3.8 2.9 3.4 4.0 3.8	6.3 5.8 5.7 5.2 4.5	2.7 2.3 1.8 1.6 1.4	.01 .00 .00 .10	.00 .00 .00 .00	.00 .00 .00 .00
16 17 18 19 20	.33 .54 .91 1.6 1.3	.53 .52 .47 .45	.45 .46 e.48 e.50 e.50	e.45 e.45 e.45 e.45 e.45	e.40 e.40 e.40 e.40 e.40	.66 .86 1.1 .90	2.8 2.6 3.2 3.4 2.8	4.7 4.7 4.4 4.1 3.7	1.4 1.6 1.5 1.4	.01 .23 .30 .53	.00 .01 .03 .02	.00 .00 .00 .00
					e.40 e.40 e.40 e.40 e.40							
	1.4 1.6 1.9 1.7	.67 .57 .50 .48 .49	e.50 e.50 e.50 e.50 e.50	e.45 e.45 e.45 e.45 e.45 e.45	e.40 e.40 e.40 e.40	1.7 1.8 1.7 1.5 1.5	3.1 3.9 4.3 4.2 5.1	5.6 5.2 5.1 5.3 5.2 5.3	.67 1.8 .74 .58 .43	.08 .07 .12 .07 .00	.01 .01 .00 .02 .02	
					12.00 .41 .45 .40 .24 YEARS 1998					4.04 .13 .53 .00 8.0	0.21 .007 .03 .00 .4	0.03 .001 .01 .00
MEAN MAX (WY) MIN (WY)					.42 .43 1999 .41 2000		3.44	9.86 14.5 1999 5.24 2000	5.59 8.92 1999 2.26	.74 1.35 1999 .13 2000	1.16 2.32 1999 .007 2000	
SUMMARY	Y STATIST	ICS	FOR	1999 CALE	NDAR YEAR	F	OR 2000 WA	TER YEAR		WATER YE	ARS 1998	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT ANNUAL 10 PERC	MEAN F ANNUAL ME F DAILY ME SEVEN-DA FANEOUS PE FANEOUS PE	EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS			Apr 30 5 Sep 7 0 Sep 6		453.83 1.24 7.0 .00 .00 8.2 1.92 900 4.3 .49	May 4 Jul 12 Jul 30 May 4 Apr 5		2.02 2.80 1.24 37 a.00 .00 b49 2.46 1460 5.7 .50	Apr 3 Jul 1 Jul 3 Apr 3 Apr 3	1999 2000 80 1999 80 2000 80 2000 80 1999 80 1999

e Estimated. a No flow many days during 2000. b From rating curve extended above 19 ${\rm ft}^3/{\rm s}$.

arkansas river basin 299

07108900 ST. CHARLES RIVER AT VINELAND, CO

LOCATION.--Lat $38^{\circ}14^{\circ}44^{\circ}$, long $104^{\circ}29^{\circ}09^{\circ}$, in $NE^{1}/_{4}SW^{1}/_{4}$ 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 50 Business (revised), 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. Records for March 1968 to September 1974 at site 2.6 mi upstream at different datum published as "St. Charles River near Vineland," (station 07108800) are 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 and those above 1,000 ft³/s, 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 by 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, $56,000~{\rm ft}^3/{\rm s}$, at site $5.0~{\rm mi}$ upstream, date and gage height unknown.

		DISCHARO	GE, CUBIC	C FEET PER		NATER YE. MEAN VA	AR OCTOBER LUES	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	17 17 17 18 18	34 40 44 43 38	16 16 15 17 16	15 15 14 e14 14	17 18 23 20 18	16 17 18 18 17	50 47 50 55 78	138 121 105 128 168	22 32 247 41 29	15 11 11 10 9.6	6.3 6.8 8.1 7.7 8.4	78 20 16 15 16
6 7 8 9 10	19 20 20 20 20	31 32 31 31 31	16 17 18 17 16	17 14 14 15 14	16 17 17 17 17	16 16 20 17 17	188 198 172 155 130	176 165 136 155 138	24 22 20 20 17	9.6 10 12 11	9.7 8.7 8.7 11	13 9.9 10 9.4 9.3
11 12 13 14 15	21 21 21 22 23	31 30 28 27 25	17 16 15 16 14	14 13 12 12 13	18 19 18 17 17	15 14 14 14 15	124 116 95 75 72	129 124 110 93 59	15 12 11 8.3 8.4	12 13 15 14 13	11 8.9 11 9.1 8.5	8.9 9.1 8.3 6.4 6.7
16 17 18 19 20	23 26 27 34 39	22 22 21 20 19	16 17 16 15	15 15 14 15 15	17 17 17 17 17	18 18 18 17 24	75 69 68 65 66	53 50 52 53 50	7.8 8.1 8.5 7.1 6.7	16 35 59 22 16	8.8 26 315 30 26	5.8 5.9 5.9 5.5 5.4
21 22 23 24 25	37 38 38 39 39	19 19 19 19	14 15 14 14	17 16 16 15 17	17 17 17 16 15	20 20 20 20 20	68 70 73 69 58	52 48 44 42 74	8.5 11 9.6 8.3 7.7	13 16 17 13 8.7	25 26 25 24 21	5.6 7.6 9.7 13 12
26 27 28 29 30 31	39 39 34 33 32 32	17 17 17 17 16	15 14 14 14 14 14	17 e16 e16 e15 e16 17	14 15 15 15 	20 19 17 19 21 38	53 53 58 96 118	42 37 32 30 25 23	12 16 18 25 30	6.3 6.9 8.1 8.2 8.5 6.3	21 20 19 19 19	10 8.9 8.2 9.2 8.0
TOTAL MEAN MAX MIN AC-FT	843 27.2 39 17 1670	778 25.9 44 16 1540	477 15.4 18 14 946	462 14.9 17 12 916	495 17.1 23 14 982	573 18.5 38 14 1140	2664 88.8 198 47 5280	2652 85.5 176 23 5260	713.0 23.8 247 6.7 1410	437.2 14.1 59 6.3 867	850.7 27.4 315 6.3 1690	356.7 11.9 78 5.4 708
							BY WATER			0.5.0	45.6	
MEAN MAX (WY) MIN (WY)	15.0 39.5 1983 3.50 1979	16.7 32.3 1999 5.59 1979	13.4 24.3 1998 6.81 1981	13.2 22.6 1998 6.75 1981	13.8 25.1 1998 7.68 1995	22.3 127 1998 6.71 1995	73.8 306 1987 5.02 1981	170 484 1980 6.06 1991	84.4 358 1983 8.79 1990	36.3 108 1995 7.60 1981	47.6 207 1982 10.2 1989	20.0 120 1982 6.36 1980
SUMMARY	STATISTI	CS	FOR 1	999 CALEN	DAR YEAR	F	OR 2000 WAS	TER YEAR		WATER Y	EARS 1979	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN AN N MINIMUM AK FLOW AK STAGE C-FT) DS DS		25219.2 69.1 3150 7.9 9.8 50020 156 19 12	Apr 30 Apr 1 Mar 26		11301.6 30.9 315 5.4 5.8 3140 b10.99 22420 69 17 8.7	Aug 18 Sep 20 Sep 15 Aug 18 Aug 18		44.0 88.4 9.5 3150 .2: 2.7 a7560 c12.7 31880 101 15 6.8	2 Apr: 5 Apr: Apr: Aug:	1987 1979 30 1999 25 1979 25 1981 11 1982 11 1982

e Estimated.

a From rating curve extended above 1750 ft³/s.

b From floodmarks.

c Maximum gage height, 13.68 ft, Apr 30, 1999.

07109500 ARKANSAS RIVER NEAR AVONDALE, CO

LOCATION.--Lat $38^{\circ}14^{\circ}53^{\circ}$, long $104^{\circ}23^{\circ}55^{\circ}$, in $NE^{1}/_{4}SW^{1}/_{4}$ 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 \min^2 .

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1939 to September 1951, February 1965 to current year. Statistical summary computed for 1975 to current year subsequent to partial regulation by Pueblo Reservoir.

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. Feb. 1, 1965 to Sept. 30, 1991, at datum 1.00 ft lower.

REMARKS.--No estimated daily discharges, records good. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

				DAILY	MEAN V	ALUES					
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
626	651	670	662	490	575	1050	988	2700	765	1260	590
614	676	673	666	406	591	1240	1170	2880	656	1120	457
639	738	683	656	368	662	1250	1030	3110	660	1040	440
670	734	697	652	375	631	1220	668	2800	960	1080	418
664	736	689	630	378	608	1210	668	2720	1420	1100	456
627	719	691	631	371	606	1260	708	2580	1460	1140	604
569	718	741	619	369	613	1210	1010	2380	1300	1230	599
738	713	755	610	365	753	1250	1180	2010	1350	1180	610
700	704	731	610	363	656	1250	1750	1860	1510	908	605
660	665	653	600	455	589	1240	1630	1650	1540	918	587
685	621	609	605	472	568	1270	1420	1570	1470	1050	513
692	612	600	607	477	556	1280	1090	1420	1520	1010	426
680	610	598	610	475	557	1490	1150	1300	1170	1060	323
665	598	567	600	465	568	2250	1180	1530	1240	1170	288
618	563	565	604	463	693	1750	1130	1710	1290	1200	275
584	548	557	607	457	836	826	1040	1380	1280	1190	227
640	547	564	608	462	1130	788	972	1380	1640	1200	222
671	545	528	606	471	1120	880	989	1440	2260	1720	213
712	533	514	602	479	1090	856	1450	1550	2060	1370	203
776	535	514	607	478	1060	811	1520	1460	1740	1220	203
739	541	506	636	468	1030	765	1390	1370	1170	1120	212
722	556	507	642	454	787	697	1150	1320	1030	1080	213
694	643	498	637	414	733	717	1100	1310	1000	1050	246
652	617	500	638	411	715	728	1130	1290	1020	962	318
646	595	505	645	411	771	798	1790	1260	973	918	382
640 609 601 612 643 637	582 605 608 596 597	499 510 591 599 636 671	607 587 591 540 501 493	410 407 532 556 	773 818 915 969 971 1050	768 794 752 713 752	2530 2730 2300 1780 2070 2640	1220 1400 1260 913 842	1020 1100 1270 1360 1450 1380	1050 1150 1020 1390 1060 565	337 306 278 280 323
20425	18706	18621	18909	12702	23994	31865	43353	51615	40064	34531	11154
659	624	601	610	438	774	1062	1398	1720	1292	1114	372
776	738	755	666	556	1130	2250	2730	3110	2260	1720	610
569	533	498	493	363	556	697	668	842	656	565	203
40510	37100	36930	37510	25190	47590	63200	85990	102400	79470	68490	22120
537 1631 1985 187 1979	481 985 1985 170 1979	364 718 1987 197 1979	385 770 1985 190 1979	424 1103 1985 223 1979	551 994 1985 219 1978	, BY WATER 884 1884 1987 220 1978	1664 4170 1980 517 1977	2737 4971 1997 638 1977	1906 4432 1995 562 1977	1361 3210 1984 423 1977	645 1511 1982 200 1977
TOTAL MEAN F ANNUAL M F ANNUAL M F DAILY ME SEVEN-DA FANEOUS P FANEOUS P RUNOFF (C. CENT EXCE	MEAN EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		468112 1282 12300 328 341	May 1 Feb 27 Feb 22	1	325939 891 3110 203 213 3980	Jun 3		a997 1626 411 12300 b90 118 c20900	May Nov Nov Apr	- 2000 1985 1977 1 1999 19 1978 16 1978 30 1999 30 1999
	626 614 639 670 664 627 569 738 700 660 685 692 680 665 618 584 640 671 712 776 739 722 644 652 646 640 609 601 612 637 20425 659 776 569 40510 FICS OF M 537 1631 1985 187 1979 Y STATIST TOTAL MEAN FI ANNUAL ANNUAL ANNUAL MEAN FI ANNUAL ANNUAL MEAN FI ANNUAL MEAN FI ANNUAL ANNUAL MEAN FI ANNUAL MEAN FI ANNUAL MEAN MEAN MEAN MEAN MEAN MEAN MEAN MEAN	626 651 614 676 639 738 670 734 664 736 627 719 569 718 738 713 700 704 660 665 685 621 692 612 680 610 665 598 618 563 584 548 640 547 671 545 712 533 776 535 739 541 722 556 694 643 652 617 646 595 640 582 609 605 601 608 612 596 640 582 609 605 601 608 612 596 643 597 637 20425 18706 659 624 776 738 559 533 40510 37100 PICS OF MONTHLY MEA 537 481 1631 985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1987 170 1979 1979 2 STATISTICS TOTAL MEAN F ANNUAL MEAN ANNUAL MEAN ANNUAL MEAN ANNUAL MEAN ANNUAL MEAN F ANSUAL MEAN ANNUAL MEAN F ANSUAL MEAN F ANSUAL MEAN ANNUAL MEAN F ANSUAL MEAN F A	626 651 670 614 676 673 639 738 683 670 734 697 664 736 689 627 719 691 569 718 741 738 713 755 700 704 731 660 665 653 685 621 609 692 612 600 680 610 598 665 598 567 618 563 565 584 548 557 640 547 564 671 545 528 712 533 514 776 535 514 739 541 506 722 556 507 694 643 498 652 617 500 646 595 505 640 582 499 609 605 510 601 608 591 612 596 599 643 597 636 597 636 637 671 20425 18706 18621 659 624 601 776 738 755 640 582 499 673 597 674 675 674 677 675 597 675 677 677 677 677 677 677 677 677 677 677	626 651 670 662 614 676 673 666 639 738 683 656 670 734 697 652 664 736 689 630 627 719 691 631 569 718 741 619 738 713 755 610 700 704 731 610 660 665 653 600 685 621 609 605 692 612 600 607 680 610 598 610 665 598 567 600 618 563 565 604 584 548 557 607 640 547 564 608 671 545 528 606 671 600 600 600 600 600 600 600 600 600 600 600	OCT NOV DEC JAN FEB 626 651 670 662 490 614 676 673 666 406 639 738 683 656 368 670 734 697 652 375 664 736 689 630 378 627 719 691 631 371 569 718 741 619 369 738 713 755 610 365 700 704 731 610 365 700 704 731 610 365 660 665 653 600 455 685 621 609 605 472 692 612 600 607 477 680 610 598 610 475 665 598 567 600 465 618 563 565 604 463 584 548 557 607 457 640 547 564 608 462 671 545 528 606 471 712 533 514 602 479 776 535 514 607 478 739 541 506 636 468 722 556 507 642 454 694 643 498 637 414 652 617 500 638 411 646 595 505 645 411 640 582 499 607 410 660 608 591 591 532 612 596 599 540 556 643 597 636 501 637 671 493 20425 18706 18621 18909 12702 659 624 601 608 591 591 637 671 493 20425 18706 18621 18909 12702 659 624 601 608 596 643 597 636 501 637 671 493 20425 18706 18621 18909 12702 659 624 601 608 591 591 637 671 493 20425 18706 18621 18909 12702 659 624 601 608 591 591 637 671 493 20425 18706 18621 18909 12702 659 634 599 540 556 643 597 636 501 637 671 493 20425 18706 18621 18909 12702 659 624 601 608 591 591 637 671 493 20425 18706 18621 18909 12702 659 624 601 608 591 591 637 671 493 20425 18706 18621 18909 12702 659 634 498 493 363 40510 37100 36930 37510 25190 FICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 537 481 364 385 424 1631 985 718 770 197 199 23 1979 1979 1979 1979 1979 1979 1979 1979	OCT NOV DEC JAN FEB MAR 626 651 670 662 490 575 614 676 673 666 406 591 639 738 683 656 368 662 670 734 689 630 378 608 627 719 691 631 371 606 569 718 741 619 369 613 738 738 713 755 610 365 753 700 704 731 610 363 656 685 621 609 607 477 556 680 610 598 610 475 557 665 598 567 600 465 568 618 563 565 604 463 693 584 548 557 607 457 836 671 545 528 606 471 1120 772 533 514 602 479 1090 776 535 514 602 479 1090 776 535 514 607 478 1060 739 541 506 636 637 411 771 640 582 499 607 410 773 640 582 499 607 410 773 669 612 596 595 505 645 411 771 640 582 499 607 410 773 640 582 499 607 410 773 640 582 499 607 410 773 659 510 587 407 818 651 596 599 540 556 969 643 596 599 540 556 969 643 985 718 790 120 23994 659 624 601 610 438 774 776 738 756 758 493 363 556 645 18706 18621 18909 12702 23994 659 624 601 610 438 774 776 776 778 779 679 540 565 566 569 643 597 564 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528 606 471 1120 885 1450 770 770 535 514 607 478 1090 856 1450 770 704 731 750 745 745 745 745 745 745 745 745 745 745	OCT NOV DEC JAN FEB MAR APR MAY JUN 626 651 670 662 490 575 1050 988 2700 614 676 673 666 406 591 1240 1170 2880 639 738 683 656 368 662 1250 1030 3110 670 734 697 652 375 631 1220 668 2800 664 736 689 630 378 608 1210 668 2800 665 737 719 691 631 371 606 1260 708 2580 569 718 741 619 369 613 1210 1010 2380 738 713 775 610 365 753 1250 1180 2010 700 704 731 610 363 656 1250 1750 1860 660 655 653 600 455 589 1240 1630 1630 1650 661 652 653 600 455 589 1240 1630 1650 662 621 600 607 477 556 1280 1090 1420 680 610 598 610 475 557 1490 1150 1300 663 665 598 567 600 465 568 2250 1180 1300 664 547 564 608 462 1130 788 972 1380 671 545 528 606 471 1120 880 989 1440 671 545 528 606 471 1120 880 989 1440 772 533 514 602 479 1090 856 1450 1450 773 541 506 636 468 1030 765 1390 1370 774 555 507 642 454 787 697 1150 1310 775 535 514 607 478 1060 811 1520 1460 673 954 548 597 607 478 1060 811 1520 1460 674 675 535 514 506 636 468 1030 765 1390 1370 772 556 507 642 454 787 697 1150 1310 773 9541 506 638 411 771 798 1790 1260 674 675 589 550 645 411 771 798 1790 1260 675 676 582 499 607 410 773 768 2530 1290 1300 676 677 678 525 505 645 411 771 798 1790 1260 677 678 525 505 645 411 771 798 1790 1260 679 679 679 679 679 1790 1750 1750 679 679 679 679 1790 1750 1750 679 679 679 1790 1790 1750 679 679 679 1790 1790 1790 1790 679 679 679 1790 1790 1790 1790 670 670 670 1790 1790 1790 1790 670 670 670 1790 1790 1790 1790 670 670 1790 1790 1790 1790 1790 670 670 1790 1790 1790 1790 1790 670 670 1790 1790 1790 1790 1790 670 670 1790 1790 1790 1790 1790 670 670 1790 1790 1790 1790 1790 1790 670 670 1790 1790 1790 1790 1790 1790 670 670 1790 1790 1790 1790 1790 1790 670 670 1790 1790 1790 1790 1790 1790 670 670 1790 1790 1790 1790 1790 1790 670 670 1790 1790 1790 1790 1790 1790 670 670 1790 1790 1790 1790 1790 1790 670 670 1790 1790 1790 1790 1790 1790 670 670 1790 1790 1790 1790 1790 1790 1790 670 670 1790 1790 1790 1790 1790 1790 1790 670 670 670 1790 1790 1790 1790 1790 1790 670 670 1790 1790 1790 1790 1790 1790 670 670 1790 1790 1	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL 626 651 670 662 490 575 1050 988 2700 765 614 676 673 666 406 591 1240 1170 2880 656 639 738 683 556 368 652 1250 1030 3110 660 670 734 697 652 375 631 1220 668 2800 960 664 736 689 630 378 608 1210 668 2720 1420 627 719 691 631 371 606 1220 708 2580 1420 559 718 741 619 369 613 1210 100 2380 1300 738 713 755 610 365 753 1220 1180 2100 1350 700 704 731 610 365 753 1250 1180 2010 1350 660 665 653 600 455 599 1240 1630 1650 1540 685 621 609 605 472 568 1270 1420 1570 1860 689 610 598 610 475 557 1490 1150 1300 1170 680 610 598 610 475 557 1490 1150 1300 1170 680 610 598 610 475 557 1490 1150 1300 1170 680 610 598 610 465 588 2250 1180 150 1240 661 563 564 608 462 1130 788 972 1380 1240 671 545 548 557 607 457 836 835 1040 1380 1200 772 533 514 607 457 836 839 1040 1380 1200 773 541 506 636 468 1030 765 1390 1370 1170 739 541 506 636 468 1030 765 1390 1370 1170 739 541 506 636 468 1030 765 1390 1370 1170 739 541 506 636 468 1030 765 1390 1370 1170 739 541 506 636 468 1030 765 1390 1370 1170 739 541 506 636 468 1030 765 1390 1370 1170 739 541 506 636 468 1030 765 1390 1370 1170 739 541 506 636 468 1030 765 1390 1370 1170 739 541 506 636 468 1030 765 1390 1370 1170 739 541 506 636 468 1030 765 1390 1370 1170 739 541 506 636 468 1030 765 1390 1370 1170 739 541 506 636 468 1030 765 1390 1370 1170 739 541 506 636 468 1030 765 1390 1370 1170 739 541 506 636 468 1030 765 1390 1370 1170 739 541 506 636 636 468 1030 765 1390 1370 1170 739 541 506 636 636 468 1030 765 1390 1370 1170 739 541 506 636 636 468 1030 765 1390 1370 170 739 541 506 636 636 468 1030 765 1390 1370 170 739 541 506 636 566 566 570 642 454 787 697 1150 1330 1300 1300 694 645 595 595 595 545 491 791 1970 1980 1990 1900 1900 1900 1900 1900 190	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG 626 651 670 662 490 575 1050 988 2700 765 1266 634 676 673 666 406 575 1020 180 180 2800 656 1100 637 078 8 683 683 665 486 662 1020 1030 2800 656 1100 6670 734 697 652 375 631 1220 668 2800 960 1100 6674 736 689 630 378 608 1210 668 2720 1420 1100 627 719 691 631 371 606 1260 708 2580 1460 1100 627 718 741 619 369 613 1210 1010 2380 300 1230 738 713 755 610 365 753 1250 1180 2010 1350 1180 660 665 665 663 600 455 599 1240 1630 1650 1660 1060 665 665 673 600 465 559 1240 1630 1650 1540 988 668 621 609 605 472 568 1270 1420 1570 1470 1050 669 610 599 610 477 556 1280 1090 1420 1520 1060 6680 610 599 610 475 557 1490 1150 1300 1170 1200 6680 610 599 610 475 557 1490 1150 1300 1170 1200 6680 610 599 610 475 557 1490 1150 1300 1170 1200 6680 610 598 667 472 868 2250 1180 1530 1240 1170 1200 6680 610 598 610 475 557 1490 1150 1300 1170 1200 6680 610 598 660 445 568 2250 1180 1530 1240 1170 1200 671 545 528 606 471 1120 880 989 1440 2260 1270 671 545 526 606 471 1120 880 989 1440 2260 1270 772 533 514 607 478 1060 811 1520 1100 1200 671 545 526 606 471 1120 880 989 1440 2260 1270 772 535 514 607 478 1060 811 1520 1300 170 1200 671 545 526 606 471 1120 880 989 1440 2260 1270 772 535 514 607 478 1060 811 1520 1300 170 1200 671 545 526 606 471 1120 880 989 1440 2260 1270 773 541 506 636 468 1030 765 1390 1370 1170 1200 671 545 526 606 471 1120 880 989 1440 2260 1720 672 546 595 505 645 441 771 778 788 1790 1300 1770 1200 673 547 564 608 574 574 574 574 574 574 574 574 574 574

a Average discharge for 20 years (water years 1940-51, 1966-73), 867 ft^3/s ; 628100 acre-ft/yr, prior to

A Average to 2 years (water years 1940-31, 1960-75), 807 ft /s. 626100 acre-ft/yr, prior to completion of Pueblo Reservoir.

b Minimum daily discharge for period of record, 50 ft³/s, Apr 2, 1940.

c From rating curve extended above 11,500 ft³/s on basis of velocity-area study. Maximum discharge and stage for period of record, about 50000 ft³/s, gage height, 9.77 ft, June 18, 1965, 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 Avondale, and Arkansas River near Avondale.

d From floodmark.

07109500 ARKANSAS RIVER NEAR AVONDALE, CO--Continued

WATER-OUALITY 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 for Nov. 24 and Sept. 3-5, which 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. Water-quality data prior to December 1985 are published in other reports. Instantaneous discharge and selected water-quality data collected as part of a basin-wide water-quality assessment of the lower Arkansas River basin in Colorado are published elsewhere in this report.

EXTREMES FOR PERIOD OF RECORD..

DISSOLVED OXYGEN: Maximum, 14.0 mg/L, Feb. 16, 1996; minimum, 2.6 mg/L, July 14, 1992.
pH: Maximum, 9.1 units, Dec. 3, 1989; minimum, 7.2 units, several days in 1992, 1995-96.
SPECIFIC CONDUCTANCE: Maximum, 1,380 microsiemens, Jan. 24-25, 1980 and Sept. 1, 2000; minimum, 246 microsiemens, WATER TEMPERATURE: Maximum, 31.5°C, Aug. 6, 1980; minimum, 0.0°C, many days.

EXTREMES FOR CURRENT YEAR . --

TREMES FOR CURRENT YEAR.-DISSOLVED OXYGEN: Maximum, 13.1 mg/L, Jan. 4; minimum, 5.2 mg/L, Sept. 1.
pH: Maximum, 8.7 units, Dec. 2; minimum, 7.7 units, Sept. 18, 22-23, 30.
SPECIFIC CONDUCTANCE: Maximum, 1,380 microsiemens, Sept. 1; minimum, 463 microsiemens, July 17.
WATER TEMPERATURE: Maximum, 26.6°C, Aug. 10; minimum, 0.0°C, Jan. 4, 30-31.

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		D	ECEMBER			JANUARY	
1 2 3 4 5	8.3 8.8 8.8 8.7 8.2	7.4 7.2 7.5 7.0 6.8	7.8 7.9 8.2 8.0 7.5	9.3 9.4 10.1 9.7 10.5	7.6 8.0 8.2 7.8 8.1	8.4 8.6 9.2 8.8 9.2	10.5 10.4 10.8 11.4 11.4	9.3 9.3 9.8 10.2 10.4	9.7 9.7 10.3 10.7 10.9	11.5 11.7 12.2 13.1 11.2	10.2 10.1 10.2 10.1 10.1	10.8 10.8 11.4 11.5 10.6
6 7 8 9 10	8.2 8.3 8.7 8.6 8.8	6.9 7.2 7.1 7.5 7.9	7.5 7.9 7.9 8.0 8.3	10.5 10.6 10.3 10.0 9.9	8.4 8.4 8.1 7.5 8.0	9.2 9.4 9.1 8.7 8.7	10.9 11.5 11.6 11.8 10.8	9.8 10.3 10.6 9.8 9.7	10.4 10.8 11.1 11.0 10.3	11.4 12.4 11.4 11.7	10.4 10.6 9.7 10.4 9.8	10.8 11.5 10.8 11.0 10.8
11 12 13 14 15	8.8 8.4 8.8 9.1 8.3	7.0 7.0 7.2 7.3 7.4	7.9 7.6 7.9 8.1 7.8	9.8 10.1 9.7 9.9 10.7	7.9 8.0 7.6 7.8 8.0	8.6 8.8 8.5 8.7 9.0	10.4 11.1 11.4 11.1 12.1	9.5 9.9 10.3 10.3	10.0 10.5 10.8 10.7 11.3	11.5 10.9 11.7 12.1 11.4	9.6 9.1 9.6 10.3 9.6	10.6 10.1 10.6 11.1 10.5
16 17 18 19 20	9.2 9.4 9.1 8.9 8.8	7.5 8.4 8.3 7.6 7.9	8.5 8.9 8.6 8.3 8.4	10.6 10.6 9.1 9.9 9.8	7.6 7.4 7.1 7.9 7.6	8.7 8.7 7.8 8.6 8.5	11.5 10.6 10.9 10.5 11.1	9.8 9.7 9.6 9.6 10.3	10.9 10.1 10.3 10.1 10.8	11.6 11.4 11.0 10.9 11.6	9.8 9.5 9.3 9.4 9.5	10.6 10.4 10.1 10.0 10.3
21 22 23 24 25	9.8 9.8 9.8 9.3 9.2	8.1 8.2 7.7 7.5 7.3	8.8 8.8 8.8 8.3	10.6 10.9	 9.8 9.8	10.3 10.3	11.7 11.4 11.3 11.0 10.9	10.7 10.3 9.7 9.5 9.6	11.2 10.9 10.6 10.3 10.3	11.2 10.9 11.4 11.8 11.4	9.4 9.2 9.7 9.7 9.8	10.2 10.0 10.6 10.8 10.7
26 27 28 29 30 31	9.2 9.8 10.4 8.7 9.8 9.5	7.4 7.4 8.2 8.1 8.1 7.6	8.2 8.6 9.2 8.4 8.9 8.5	10.6 10.5 10.6 10.6 9.9	8.8 8.8 9.2 9.2 8.8	9.8 9.6 9.7 9.7 9.4	10.7 11.0 11.1 11.7 11.3 11.8	9.4 9.6 9.7 9.8 9.9	10.1 10.4 10.5 10.7 10.6 10.9	11.6 11.3 11.2 11.9 12.3	9.6 10.1 10.1 10.4 10.8 10.5	10.7 10.6 10.6 11.1 11.4 11.2
MONTH	10.4	6.8	8.2				12.1	9.3	10.5	13.1	9.1	10.7

07109500 ARKANSAS RIVER NEAR AVONDALE, CO--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY MAX MIN MEAN MAX MIN MAX MIN
1 11.7 10.0 11.0 10.4 8.3 9.2 10.5 8.8 9.7 9.5 7.9 8.8 2 11.4 8.8 10.4 9.7 8.3 8.9 10.5 9.1 9.7 9.5 7.5 8.5 3 10.3 8.5 9.4 10.2 8.2 9.3 10.6 9.2 9.8 9.2 6.7 8.1 4 10.3 9.0 9.6 9.4 7.3 8.5 10.5 7.9 9.3 8.3 6.7 7.4 5 10.8 8.4 9.7 9.4 7.6 8.5 9.8 8.1 9.2 8.0 6.5 7.2 6 10.5 8.5 9.6 9.7 8.0 8.8 10.1 8.3 9.1 8.1 6.6 7.5 7 10.9 8.7 9.8 9.0 7.4 8.2 9.8 8.3 9.1 8.9 7.5 8.2 8 10.7 8.5 9.7 9.2 7.8 8.7 10.4 <t< td=""></t<>
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12 8.3 6.9 7.7 7.5 6.2 6.9 8.0 6.3 7.0 7.3 5.7 6.4
13 8.1 7.1 7.7 7.7 6.5 7.1 7.8 6.0 6.8 7.5 5.4 6.4 14 8.6 7.5 8.1 7.8 6.6 7.1 7.7 6.0 6.7 7.5 5.5 6.4
15 8.5 7.2 7.9 7.6 6.5 7.1 7.3 5.8 6.5 8.3 5.6 6.7
16 8.4 7.3 7.7 7.7 6.6 7.1 7.4 6.1 6.6 8.2 5.4 6.8 17 8.5 7.4 7.9 7.2 6.4 6.8 7.5 6.2 6.7 8.7 5.6 7.0
18 8.3 7.3 7.8 7.5 6.2 6.7 6.6 5.4 6.2 9.4 5.4 7.2 19 8.9 7.4 8.0 7.5 6.6 7.1 6.6 5.8 6.2 9.7 5.8 7.5
20 8.8 7.1 8.0 7.6 6.6 7.2 6.9 5.9 6.3 10.7 6.5 8.3
21 8.8 7.4 8.1 7.5 6.3 6.9 7.0 5.9 6.4 10.5 6.5 8.3
22 8.6 7.2 7.9 7.5 6.5 7.0 7.1 6.0 6.4 10.8 6.5 8.1 23 8.5 7.2 7.8 7.7 6.4 7.0 7.3 6.2 6.7 9.9 7.0 8.4
24 8.6 6.8 7.7 7.8 6.4 7.1 7.4 5.9 6.6 10.0 7.8 8.8 25 8.4 6.9 7.6 7.7 6.3 7.0 7.2 6.0 6.5 9.3 8.0 8.6
26 8.0 6.7 7.3 8.1 6.3 7.1 7.4 5.9 6.4 9.0 6.5 8.1
27 7.6 6.5 6.8 8.0 6.7 7.3 6.8 5.9 6.3 9.1 6.1 7.5 28 7.5 6.7 7.1 8.3 6.9 7.5 6.9 5.8 6.3 8.8 6.1 7.5
29 7.6 6.4 7.0 8.0 6.8 7.4 7.0 5.8 6.3 9.4 6.4 7.8
30 7.6 6.3 6.9 7.8 6.7 7.3 6.7 5.8 6.2 9.6 6.9 8.2 31 8.0 6.5 7.3 6.9 5.9 6.4

07109500 ARKANSAS RIVER NEAR AVONDALE, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

	-			TEDD, SIAM				JDER IJJ		IEPIDER 200		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	0.0	OCTOBER			OVEMBER	0.4		ECEMBER	0.2	0.1	JANUARY	
1 2 3	8.2 8.4 8.4	7.8 8.0 7.9	8.2	8.6 8.4	8.3	8.4	8.7	8.3	8.4	8.1 8.1	7.9	8.0 8.0 8.0
4 5	8.4	7.9 7.9	8.2	8.5 8.6 8.4 8.4 8.5	8.1	8.3	8.4 8.7 8.6 8.5 8.5	8.2	8.3	8.1 8.1 8.1 8.1	7.9 7.8	8.0 8.0
6												8.0
7	8.3 8.5	8.1 8.0	8.2	8.5 8.5	8.3	8.4 8.4	8.4 8.3	8.0 8.1	8.2 8.2	8.1 8.1	7.8 7.8	8.0
9 10	8.4 8.5	8.0 8.1 8.0 8.0	8.1	8.5 8.5 8.4 8.4	8.1 8.1	8.3 8.3	8.4 8.4 8.3 8.3	8.0	8.2 8.2	8.1 8.1 8.2 8.2	7.8 7.9	8.0
11												8.0
12 13	8.4 8.4 8.4 8.4	8.1 8.2	8.3 8.3	8.5 8.4	8.0 8.1	8.3 8.3	8.1 8.2	8.0 7.9	8.1 8.1	8.2 8.2	8.0 7.9	8.1 8.0
14 15	8.4 8.5	8.0 8.1 8.2 8.1 8.0	8.2 8.3	8.5 8.5 8.4 8.4 8.5	8.1 8.0	8.3 8.3	8.2 8.1 8.2 8.1 8.2	7.9 8.0	8.0 8.1	8.1 8.2	7.9 7.9	8.0 8.0
16												8.0
18	8.6	8.3 8.1 8.1 8.0 8.1	8.4	8.3 8.3 8.3 8.3	8.1	8.2	8.3 8.4 8.3 8.3	8.3	8.3	8.2 8.2 8.2 8.2 8.2	7.9	8.0
19 20	8.4 8.4	8.0	8.2	8.3	8.0	8.2	8.3	8.2	8.2	8.2	8.0	8.0 8.1
21 22	8.3 8.3	8.0 8.0 8.0 8.0	8.2				8.3	8.1	8.2	8.2	8.0	8.1 8.1
23 24	8.3 8.3	8.0	8.2	8.3	8.1	8.2	8.3 8.2 8.2 8.1 8.1	8.1	8.2	8.2 8.2 8.2 8.2 8.2	8.0	8.1 8.1
25				8.3	8.0	8.2						8.1
26 27	8.4 8.4	8.1	8.3	8.5 8.4 8.3 8.3	8.3	8.4 8.3 8.3 8.2 8.2	8.2 8.0 8.1 8.1	8.0	8.1 8.0	8.2 8.2 8.2 8.2	8.0	8.1 8.1
28 29	8.5	8.2	8.4	8.3	8.1	8.3	8.1	7.9	8.1 8.0 8.0 8.0	8.2	8.0	8.0
30 31	8.5 8.4	8.1 8.2 8.2 8.3 8.1 8.2	8.3	8.3	8.1	8.2	8.1 8.1	7.9 7.9	8.0	8.2 8.2	8.0	8.1 8.1 8.1
								7.9	8.2	8.2		8.0
MONTH	8.6	7.8	8.2				0.7	7.5	0.2	0.2		0.0
MONTH	8.6 MAX	7.8 MIN	8.2 MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	MAX		MEAN	MAX	MIN MARCH	MEAN	MAX	MIN	MEAN	MAX	MIN	
DAY 1	MAX	MIN FEBRUARY	MEAN	MAX	MARCH	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY 1 2 3	MAX	MIN FEBRUARY	MEAN	MAX	MARCH	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN 8.0 8.0 8.0
DAY 1 2	MAX	MIN FEBRUARY 8.0 8.0 8.0 8.0 7.9	MEAN 8.1 8.0 8.0 8.1 8.0	MAX	MARCH	MEAN 8.1 8.1 8.1 8.1 8.2	MAX 8.4 8.5 8.5 8.6 8.6	MIN APRIL 8.2 8.3 8.2 8.3 8.2	MEAN 8.3 8.4 8.4 8.4	MAX	MIN	MEAN 8.0 8.0
DAY 1 2 3 4 5	MAX 8.2 8.2 8.2 8.2 8.1 8.2	MIN FEBRUARY 8.0 8.0 8.0 8.0 7.9	MEAN 8.1 8.0 8.0 8.1 8.0	MAX 8.4 8.2 8.3 8.3 8.4	MARCH 8.0 8.0 7.9 8.0 8.1	MEAN 8.1 8.1 8.1 8.1 8.2	MAX 8.4 8.5 8.5 8.6 8.6	MIN APRIL 8.2 8.3 8.2 8.3 8.2	MEAN 8.3 8.4 8.4 8.4	MAX 8.2 8.2 8.2 8.1 8.1	MIN MAY 7.8 7.9 7.9 7.9	MEAN 8.0 8.0 8.0 8.0 8.0
DAY 1 2 3 4 5	MAX 8.2 8.2 8.2 8.2 8.1 8.2 8.2	MIN FEBRUARY 8.0 8.0 8.0 8.0 7.9	MEAN 8.1 8.0 8.0 8.1 8.0	MAX 8.4 8.2 8.3 8.3 8.4	MARCH 8.0 8.0 7.9 8.0 8.1	MEAN 8.1 8.1 8.1 8.1 8.2	MAX 8.4 8.5 8.5 8.6 8.6	MIN APRIL 8.2 8.3 8.2 8.3 8.2	MEAN 8.3 8.4 8.4 8.4	MAX 8.2 8.2 8.2 8.1 8.1	MIN MAY 7.8 7.9 7.9 7.9	MEAN 8.0 8.0 8.0 8.0 8.0 8.1
DAY 1 2 3 4 5 6 7 8 9 10	MAX 8.2 8.2 8.2 8.1 8.2 8.2 8.2 8.2 8.2	MIN FEBRUARY 8.0 8.0 8.0 8.0 7.9 7.9 7.9 8.0 7.9 8.0 7.9 8.0	MEAN 8.1 8.0 8.0 8.1 8.0 8.1 8.0 8.1	MAX 8.4 8.2 8.3 8.3 8.4 8.4 8.3 8.4 8.4 8.3 8.2 8.3 8.4	8.0 8.0 7.9 8.0 8.1 8.1 8.1 8.0 7.9 8.0 8.0	MEAN 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.3 8.2 8.1 8.1	MAX 8.4 8.5 8.6 8.6 8.4 8.3 8.3 8.4	MIN APRIL 8.2 8.3 8.2 8.3 8.1 8.0 8.1 8.0 8.1 8.1	MEAN 8.3 8.4 8.4 8.4 8.2 8.2	MAX 8.2 8.2 8.2 8.1 8.1 8.1 8.2 8.2 8.3	MIN MAY 7.8 7.9 7.9 7.9 7.9 7.9 8.0 8.0 7.9 8.0	MEAN 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.0
DAY 1 2 3 4 5 6 7 8 9 10	MAX 8.2 8.2 8.2 8.1 8.2 8.2 8.2 8.2 8.2	MIN FEBRUARY 8.0 8.0 8.0 8.0 7.9 7.9 7.9 8.0 7.9 8.0 7.9 8.0	MEAN 8.1 8.0 8.0 8.1 8.0 8.1 8.0 8.1	MAX 8.4 8.2 8.3 8.3 8.4 8.4 8.3 8.4 8.4 8.3 8.2 8.3 8.4	8.0 8.0 7.9 8.0 8.1 8.1 8.1 8.0 7.9 8.0 8.0	MEAN 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.3 8.2 8.1 8.1	MAX 8.4 8.5 8.6 8.6 8.4 8.3 8.3 8.4	MIN APRIL 8.2 8.3 8.2 8.3 8.1 8.0 8.1 8.0 8.1 8.1	MEAN 8.3 8.4 8.4 8.4 8.2 8.2	MAX 8.2 8.2 8.2 8.1 8.1 8.1 8.2 8.2 8.3	MIN MAY 7.8 7.9 7.9 7.9 7.9 7.9 8.0 8.0 7.9 8.0	MEAN 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.0
DAY 1 2 3 4 5 6 7 8 9 10	MAX 8.2 8.2 8.2 8.1 8.2 8.2 8.2 8.2 8.2	MIN FEBRUARY 8.0 8.0 8.0 8.0 7.9 7.9 7.9 8.0 7.9 8.0 7.9 8.0	MEAN 8.1 8.0 8.0 8.1 8.0 8.1 8.0 8.1	MAX 8.4 8.2 8.3 8.3 8.4 8.4 8.3 8.4 8.4 8.3 8.2 8.3 8.4	8.0 8.0 7.9 8.0 8.1 8.1 8.1 8.0 7.9 8.0 8.0	MEAN 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.3 8.2 8.1 8.1	MAX 8.4 8.5 8.6 8.6 8.4 8.3 8.3 8.4	MIN APRIL 8.2 8.3 8.2 8.3 8.1 8.0 8.1 8.0 8.1 8.1	MEAN 8.3 8.4 8.4 8.4 8.2 8.2	MAX 8.2 8.2 8.2 8.1 8.1 8.1 8.2 8.2 8.3	MIN MAY 7.8 7.9 7.9 7.9 7.9 7.9 8.0 8.0 7.9 8.0	MEAN 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.0
DAY 1 2 3 4 5 6 7 8 9 10	MAX 8.2 8.2 8.2 8.1 8.2 8.2 8.2 8.2 8.2	MIN FEBRUARY 8.0 8.0 8.0 8.0 7.9 7.9 7.9 8.0 7.9 8.0 7.9 8.0	MEAN 8.1 8.0 8.0 8.1 8.0 8.1 8.0 8.1	MAX 8.4 8.2 8.3 8.3 8.4	8.0 8.0 7.9 8.0 8.1 8.1 8.1 8.0 7.9 8.0 8.0	MEAN 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.3 8.2 8.1 8.1	MAX 8.4 8.5 8.5 8.6 8.6	MIN APRIL 8.2 8.3 8.2 8.3 8.1 8.0 8.1 8.0 8.1 8.1	MEAN 8.3 8.4 8.4 8.4 8.2 8.2	MAX 8.2 8.2 8.2 8.1 8.1 8.1 8.2 8.2 8.3	MIN MAY 7.8 7.9 7.9 7.9 7.9 7.9 8.0 8.0 7.9 8.0	MEAN 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.0
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	8.2 8.2 8.2 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3	MIN FEBRUARY 8.0 8.0 8.0 7.9 7.9 8.0 7.9 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 8.1 8.1 8.1 8.1 8.1	MAX 8.4 8.2 8.3 8.3 8.4 8.4 8.3 8.4 8.3 8.4 8.3 8.4 8.3 8.4 8.3 8.4	MARCH 8.0 8.0 7.9 8.0 8.1 8.1 8.1 8.0 7.9 8.0 8.0 8.2 8.1 8.2 8.1	MEAN 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.1 8.1 8.2 8.3 8.2 8.3 8.2	MAX 8.4 8.5 8.6 8.6 8.4 8.3 8.3 8.4 8.1 8.1 8.0	MIN APRIL 8.2 8.3 8.2 8.3 8.1 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.0 7.8	MEAN 8.3 8.4 8.4 8.4 8.2 8.2 8.2 8.2 8.1 8.1 7.9	MAX 8.2 8.2 8.1 8.1 8.1 8.2 8.2 8.3 8.3 8.3 8.4 8.4 8.4	MIN 7.8 7.9 7.9 7.9 7.9 7.9 8.0 8.0 8.0 8.1 8.1 8.1 8.1	MEAN 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.1 8.2 8.2 8.2 8.2
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MAX 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.	MIN FEBRUARY 8.0 8.0 8.0 7.9 7.9 8.0 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	MEAN 8.1 8.0 8.0 8.1 8.0 8.1 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2	MAX 8.4 8.2 8.3 8.3 8.4 8.4 8.3 8.4 8.3 8.4 8.3 8.4 8.3 8.4 8.3 8.4 8.3	MARCH 8.0 8.0 7.9 8.0 8.1 8.1 8.0 7.9 8.0 8.0 8.2 8.1 8.2 8.1 8.2 8.1 8.2	MEAN 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.1 8.1 8.2 8.3 8.2 8.3 8.2 8.3	MAX 8.4 8.5 8.6 8.6 8.4 8.3 8.4 8.3 8.4 8.1 8.0 8.0 8.0	MIN APRIL 8.2 8.3 8.3 8.3 8.1 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.7 8.7	MEAN 8.3 8.4 8.4 8.4 8.2 8.2 8.2 8.2 8.1 8.1 7.9 7.9	MAX 8.2 8.2 8.1 8.1 8.1 8.2 8.2 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4	MIN MAY 7.8 7.9 7.9 7.9 7.9 8.0 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1	MEAN 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MAX 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3	MIN FEBRUARY 8.0 8.0 8.0 7.9 7.9 8.0 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	MEAN 8.1 8.0 8.0 8.1 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	MAX 8.4 8.2 8.3 8.3 8.4 8.4 8.3 8.4 8.3 8.4 8.3 8.4 8.3 8.4 8.3 8.4	8.0 7.9 8.0 8.1 8.1 8.1 8.0 7.9 8.0 8.0 8.0 8.2 8.2 8.2 8.1 8.2	MEAN 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.1 8.1 8.2 8.3 8.2 8.3 8.2 8.3	MAX 8.4 8.5 8.6 8.6 8.4 8.3 8.4 8.3 8.4 8.1 8.0 8.0	MIN APRIL 8.2 8.3 8.3 8.3 8.1 8.0 8.0 8.1 8.1 8.1 8.0 8.0 7.8 7.8	MEAN 8.3 8.4 8.4 8.4 8.2 8.2 8.2 8.2 8.1 8.1 7.9 7.9	MAX 8.2 8.2 8.1 8.1 8.1 8.2 8.2 8.3 8.4 8.4 8.4 8.4	MIN MAY 7.8 7.9 7.9 7.9 7.9 8.0 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.1	MEAN 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MAX 8.2 8.2 8.2 8.1 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3	MIN FEBRUARY 8.0 8.0 8.0 7.9 7.9 8.0 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	MEAN 8.1 8.0 8.0 8.1 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	MAX 8.4 8.2 8.3 8.3 8.4 8.4 8.4 8.3 8.4 8.4 8.3 8.4 8.4 8.4 8.3 8.4 8.4 8.4 8.4 8.4 8.4	MARCH 8.0 8.0 7.9 8.0 8.1 8.1 8.0 7.9 8.0 8.0 8.2 8.2 8.1 8.2 8.1 8.2	MEAN 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.1 8.1 8.2 8.3 8.2 8.3 8.3 8.2 8.3 8.3	MAX 8.4 8.5 8.6 8.6 8.4 8.3 8.3 8.4 8.1 8.0 8.0 8.0 8.0	MIN APRIL 8.2 8.3 8.2 8.3 8.1 8.0 8.0 8.1 8.1 8.1 8.0 7.8 7.8 7.8	MEAN 8.3 8.4 8.4 8.4 8.2 8.2 8.2 8.2 8.1 8.1 7.9 7.9 7.9	MAX 8.2 8.2 8.1 8.1 8.1 8.2 8.2 8.3 8.4 8.4 8.4 8.4 8.5 8.5	MIN MAY 7.8 7.9 7.9 7.9 7.9 7.9 8.0 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.2	MEAN 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.3
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	MAX 8.2 8.2 8.2 8.1 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	MIN FEBRUARY 8.0 8.0 8.0 7.9 7.9 8.0 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	MEAN 8.1 8.0 8.0 8.1 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	MAX 8.4 8.2 8.3 8.3 8.4 8.4 8.4 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	MARCH 8.0 7.9 8.0 7.9 8.0 8.1 8.1 8.0 7.9 8.0 8.0 8.0 8.2 8.1 8.2 8.1 8.2 8.1 8.1 8.2 8.1 8.1 8.2	MEAN 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.1 8.1 8.2 8.3 8.3 8.2 8.3 8.3 8.2 8.3 8.3 8.2 8.3	MAX 8.4 8.5 8.6 8.6 8.4 8.3 8.3 8.4 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	MIN APRIL 8.2 8.3 8.3 8.1 8.0 8.0 8.1 8.1 8.1 8.7 8.1 8.7 8.7 8.7 8.7	MEAN 8.3 8.4 8.4 8.4 8.2 8.2 8.2 8.2 8.2 8.1 8.1 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	MAX 8.2 8.2 8.1 8.1 8.1 8.2 8.2 8.2 8.3 8.3 8.4 8.4 8.4 8.5 8.5 8.5 8.4 8.4 8.4 8.5	MIN MAY 7.8 7.9 7.9 7.9 7.9 8.0 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2	MEAN 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3
DAY 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	8.2 8.2 8.2 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.4	MIN FEBRUARY 8.0 8.0 8.0 7.9 7.9 8.0 7.9 8.0 8.0 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 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.1 8.1 8.1	MAX 8.4 8.2 8.3 8.3 8.4 8.4 8.3 8.4 8.3 8.4 8.3 8.4 8.3 8.4 8.3 8.4 8.3 8.4 8.3 8.4 8.3 8.4 8.3 8.4	MARCH 8.0 8.0 7.9 8.0 8.1 8.1 8.0 7.9 8.0 8.0 8.0 8.2 8.1 8.1 8.2 8.1 8.1 8.1 8.1 8.2 8.1 8.1 8.2	MEAN 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.1 8.1 8.2 8.3 8.2 8.3 8.3 8.2 8.2 8.3 8.3 8.2 8.3 8.3 8.2	MAX 8.4 8.5 8.6 8.6 8.4 8.3 8.3 8.4 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	MIN APRIL 8.2 8.3 8.3 8.1 8.0 8.0 8.0 8.1 8.1 8.1 8.0 7.8 7.8 7.8 7.8 7.8 7.9 7.9	MEAN 8.3 8.4 8.4 8.4 8.2 8.2 8.2 8.2 8.1 8.1 7.9 7.9 7.9 7.9 7.9 7.9 8.0 8.0	MAX 8.2 8.2 8.1 8.1 8.1 8.2 8.2 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.5 8.5 8.5 8.4 8.4 8.4 8.5	MIN 7.8 7.9 7.9 7.9 7.9 7.9 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	MEAN 8.0 8.0 8.0 8.0 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3
DAY 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	MAX 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	MIN FEBRUARY 8.0 8.0 8.0 7.9 7.9 8.0 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	MEAN 8.1 8.0 8.0 8.1 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	MAX 8.4 8.2 8.3 8.3 8.4 8.4 8.3 8.4 8.3 8.4 8.3 8.4 8.3 8.4 8.3 8.4 8.4 8.4 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	MARCH 8.0 8.0 7.9 8.0 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.2 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.1 8.1 8.1 8.1 8.2 8.1	MEAN 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.4 8.4	MAX 8.4 8.5 8.6 8.6 8.4 8.3 8.4 8.3 8.4 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.1	MIN APRIL 8.2 8.3 8.3 8.3 8.1 8.0 8.1 8.1 8.1 8.1 8.7 8.7 8.7 7.8 7.8 7.9 7.9 7.9	MEAN 8.3 8.4 8.4 8.4 8.2 8.2 8.2 8.2 8.2 8.7 8.1 8.1 7.9 7.9 7.9 7.9 7.9 7.9 8.0 8.0 8.0 8.1	MAX 8.2 8.2 8.1 8.1 8.1 8.2 8.2 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	MIN MAY 7.8 7.9 7.9 7.9 7.9 8.0 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2	MEAN 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3
DAY 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	MAX 8.2 8.2 8.2 8.1 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	MIN FEBRUARY 8.0 8.0 8.0 7.9 7.9 8.0 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.0 7.9 8.1	MEAN 8.1 8.0 8.0 8.1 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	MAX 8.4 8.2 8.3 8.3 8.4 8.4 8.3 8.4 8.4 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.0 7.9 8.0 7.9 8.0 8.1 8.1 8.0 7.9 8.0 8.2 8.2 8.1 8.2 8.1 8.1 8.2 8.1 8.1 8.2	MEAN 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.1 8.1 8.2 8.3 8.3 8.2 8.3 8.3 8.2 8.3 8.3 8.4 8.4 8.4 8.3 8.4	MAX 8.4 8.5 8.6 8.6 8.4 8.3 8.3 8.4 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.1	MIN APRIL 8.2 8.3 8.3 8.1 8.0 8.0 8.1 8.1 8.1 8.0 8.0 7.8 7.8 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9	8.3 8.4 8.4 8.4 8.2 8.2 8.2 8.2 8.2 8.2 8.7 97.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	MAX 8.2 8.2 8.1 8.1 8.1 8.2 8.2 8.2 8.3 8.3 8.4 8.4 8.4 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.5 8.5 8.5	MIN MAY 7.8 7.9 7.9 7.9 7.9 8.0 8.0 7.9 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.1 8.2 8.2 8.1 8.2 8.2 8.1 8.2 8.2 8.1	MEAN 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3
DAY 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	MAX 8.2 8.2 8.2 8.1 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	MIN FEBRUARY 8.0 8.0 8.0 7.9 7.9 8.0 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.0 7.9 8.1	MEAN 8.1 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	MAX 8.4 8.2 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	MARCH 8.0 8.0 7.9 8.0 8.1 8.1 8.0 7.9 8.0 8.0 8.1 8.2 8.2 8.1 8.1 8.2 8.1 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2	MEAN 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.1 8.1 8.2 8.3 8.3 8.2 8.3 8.3 8.2 8.3 8.3 8.4 8.4 8.4	MAX 8.4 8.5 8.6 8.6 8.4 8.3 8.3 8.4 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.1	MIN APRIL 8.2 8.3 8.3 8.1 8.0 8.0 8.1 8.1 8.1 8.0 8.0 7.8 7.8 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9	MEAN 8.3 8.4 8.4 8.4 8.2 8.2 8.2 8.2 8.2 8.1 8.1 7.9 7.9 7.9 7.9 7.9 7.9 7.9 8.0 8.0 8.1 8.1 8.1	MAX 8.2 8.2 8.1 8.1 8.1 8.2 8.2 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	MIN 7.8 7.9 7.9 7.9 7.9 7.9 8.0 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	MEAN 8.0 8.0 8.0 8.0 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3

07109500 ARKANSAS RIVER NEAR AVONDALE, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

	-	-	•	-		-						
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	IR.
1 2 3 4 5	8.4 8.4 8.3 8.3	8.3 8.3 8.0 8.2 8.2	8.3 8.4 8.2 8.3 8.2	8.1 8.2 8.1 8.2 8.3	7.9 8.0 8.0 8.0 8.1	8.0 8.1 8.0 8.1 8.2	8.2 8.3 8.4 8.3 8.4	7.9 8.0 8.0 8.0	8.1 8.2 8.2 8.2 8.2	8.2 8.2 8.1 8.2 8.2	7.8 8.0 7.9 7.9 8.0	8.0 8.1 8.0 8.1 8.1
6 7 8 9 10	8.3 8.3 8.2 8.2	8.1 8.0 7.9 8.0	8.2 8.2 8.1 8.1	8.3 8.3 8.4 8.4	8.1 8.1 8.1 8.1	8.2 8.2 8.2 8.3 8.3	8.4 8.3 8.3 8.4	8.0 8.0 8.0 8.0	8.2 8.1 8.1 8.2 8.3	8.1 8.2 8.2 8.3 8.3	7.9 7.9 7.9 8.0 7.9	8.0 8.1 8.1 8.1 8.2
11 12 13 14 15	8.2 8.0 8.0 8.0	7.8 7.8 7.9 7.8 7.8	8.0 8.0 7.9 7.9	8.4 8.3 8.3 8.2 8.1	8.1 8.0 8.0 7.9	8.3 8.2 8.2 8.1 8.0	8.5 8.5 8.4 8.4	8.1 8.0 8.0 8.0	8.3 8.2 8.2 8.2 8.2	8.3 8.3 8.4 8.4	8.0 8.0 8.0 8.0	8.2 8.1 8.1 8.1 8.2
16 17 18 19 20	8.0 8.0 8.1 8.1	7.9 7.9 7.9 7.9 7.9	8.0 8.0 8.0 8.0	8.2 8.0 7.9 8.0 8.0	7.9 7.8 7.8 7.8 7.8	8.0 7.9 7.9 7.9 7.9	8.4 8.3 8.2 8.3	8.0 8.0 7.8 7.9 8.0	8.2 8.2 8.0 8.0	8.4 8.4 8.4 8.5 8.6	7.9 7.9 7.7 7.9 7.8	8.1 8.0 8.1 8.1
21 22 23 24 25	8.1 8.2 8.1 8.2 8.2	7.9 7.9 8.0 7.9	8.0 8.1 8.1 8.1	8.0 8.0 8.0 8.1 8.1	7.8 7.8 7.9 7.9 7.9	7.9 7.9 8.0 8.0	8.3 8.3 8.3 8.3	8.0 7.8 8.0 8.0 7.9	8.1 8.0 8.1 8.1	8.5 8.4 8.3 8.1	7.9 7.7 7.7 7.8 7.8	8.1 8.0 7.9 7.9 8.0
26 27 28 29 30 31	8.1 8.0 8.1 8.1 8.1	7.8 7.8 7.9 7.9 8.0	8.0 7.9 8.0 8.0	8.2 8.2 8.2 8.1 8.1 8.2	7.9 7.9 7.9 7.9 7.9	8.1 8.0 8.0 8.0 8.1	8.3 8.2 8.3 8.3 8.2	7.9 7.9 7.9 7.9 8.0 8.0	8.0 8.0 8.1 8.0 8.1	8.2 8.3 8.4 8.1	7.9 7.9 7.9 7.8 7.7	8.0 8.0 8.1 7.9 7.9
MONTH	8.4	7.8	8.1	8.4	7.8	8.1	8.5	7.8	8.1	8.6	7.7	8.1

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	VEMBER		Di	ECEMBER			JANUARY	
1 2 3 4 5	904 907 885 869 880	880 884 863 845 855	889 893 873 856 867	896 929 848 863 860	871 848 814 812 833	881 883 826 838 849	908 922 917 919 914	883 885 891 898 869	895 904 905 908 885	893 893 895 890 884	864 862 863 828 845	882 881 878 863 864
6 7 8 9 10	922 966 1020 902 897	872 921 811 832 877	898 952 894 870 886	876 872 871 897 913	833 853 848 860 889	862 865 863 873 901	897 894 852 892 944	871 844 832 829 892	885 856 843 845 915	890 900 913 889 889	848 869 851 848 850	873 884 877 866 868
11 12 13 14 15	888 883 891 918 928	864 853 860 871 903	875 871 878 886 917	933 941 931 930 998	913 916 910 910 925	925 928 921 919 952	977 975 982 1020 1020	940 938 937 982 971	955 955 957 999 988	889 884 876 866 869	847 851 851 839 841	868 871 865 854 857
16 17 18 19 20	951 935 902 932 892	921 902 873 842 827	931 922 886 894 851	974 990 998 988 965	954 950 971 949 945	964 970 983 967 955	995 1000 1030 1030 1030	974 966 1000 1010 1000	985 980 1010 1020 1010	868 867 861 876 874	844 839 836 842 850	856 854 850 858 864
21 22 23 24 25	863 862 897 906 909	844 845 845 884 881	855 855 860 894 895	 968 978	 923 948	 948 963	1030 1020 1020 1030 1030	982 993 992 999	1000 1000 1010 1010 1010	873 865 861 859 859	849 850 840 835 839	861 859 852 847 849
26 27 28 29 30 31	916 933 927 931 896 891	877 908 908 889 879 869	891 920 918 920 886 880	972 971 956 955 962	952 954 940 930 908	963 960 948 946 949	1030 1030 1000 956 928 891	1000 1000 929 928 885 862	1020 1020 951 943 909 873	901 918 931 965 966 980	850 884 899 927 928 924	871 900 915 951 952 957
MONTH	1020	811	889				1030	829	950	980	828	876

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07109500 ARKANSAS RIVER NEAR AVONDALE, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

	PECIFIC	CONDUCTI	1102 (1120	KOSTEPIENS/	CIT III Z	DEG. C/,	WAIER IE	in octor		IO SEFIEM	DDIC 2000	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	973 1100 1160 1140 1120	942 964 1100 1120 1110	960 1040 1130 1130 1120	920 923 924 865 874	870 863 855 843 847	894 903 875 854 860	870 791 757 746 746	781 723 731 731 726	842 767 741 739 738	780 727 827 849 821	723 708 711 812 783	750 718 737 830 798
6 7 8 9 10	1120 1130 1130 1130 1110	1100 1110 1110 1110 999	1110 1120 1120 1120 1030	876 876 884 888 898	853 834 750 834 878	866 857 859 865 887	757 719 710 714 720	713 697 686 695 706	730 707 697 703 714	790 719 691 791 679	709 683 677 626 636	770 701 685 666 660
11 12 13 14 15	1010 1010 1000 1010 1010	985 986 984 979 984	997 996 995 995 1000	900 896 904 892 823	873 871 870 822 784	887 884 883 876 803	720 722 725 630 807	705 706 614 612 608	714 714 685 620 672	715 736 732 704 723	664 696 675 687 692	680 713 696 694 707
16 17 18 19 20	1010 986 981 991 1000	976 960 956 953 981	989 974 969 971 992	834 855 872 853 892	759 745 829 820 816	807 783 843 831 832	812 805 786 784 801	794 784 751 748 768	802 795 764 767 781	722 748 769 703 694	707 710 692 664 664	715 726 740 690 678
21 22 23 24 25	992 999 1070 1060 1060	960 973 999 1040 1040	979 983 1040 1050	875 922 974 943 897	817 875 922 894 882	832 903 940 925 890	831 845 840 867 822	786 816 806 808 764	801 832 825 825 802	720 715 711 741 726	666 686 686 688 638	686 704 698 706 684
26 27 28 29 30 31	1060 1050 1040 911 	1030 1020 882 885 	1040 1030 923 900 	893 887 850 850 835 864	878 847 828 810 796 810	886 875 840 826 815 829	788 766 797 815 846	755 742 749 748 733	772 756 767 778 792	665 644 677 666 648 625	629 623 617 645 578 600	644 632 640 655 627 616
MONTH	1160	882	1030	974	745	862	870	608	755	849	578	698
DAV	MAN	MIN	MEAN	MAV	MIN	MEAN	MAN	MIN	MEAN	M7.57	MIN	MEAN
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		i	AUGUST			SEPTEMBE	IR.
DAY 1 2 3 4 5	MAX 614 605 855 628 624		MEAN 606 593 646 616 613	768 776 773 701 655		743 751 752 680 562			508 528 535 524 516	1380 908 879 916 915		
1 2 3 4	614 605 855 628	JUNE 592 572 582 603	606 593 646 616	768 776 773 701	JULY 726 734 690 655	743 751 752 680	524 540 549 531	AUGUST 498 519 520 514	508 528 535 524	1380 908 879 916	809 879 804 854	974 894 835 872
1 2 3 4 5 6 7 8 9	614 605 855 628 624 617 681 627 633	JUNE 592 572 582 603 605 605 591 611 610	606 593 646 616 613 610 610 618 622	768 776 773 701 655 553 549 539 510	JULY 726 734 690 655 544 520 526 503 489	743 751 752 680 562 537 537 526 504	524 540 549 531 521 534 606 585 581	498 519 520 514 510 513 518 526 563	508 528 535 524 516 526 540 545 571	1380 908 879 916 915 763 741 741 733	809 879 804 854 717 721 719 711 707	974 894 835 872 875 746 732 728 720
1 2 3 4 5 6 7 8 9 10 11 12 13 14	614 605 855 628 624 617 681 627 633 637 666 659 668 631	JUNE 592 572 582 603 605 605 591 611 610 618 611 620 624 602	606 593 646 616 613 610 610 618 622 630 626 637 652 621	768 776 773 701 655 553 549 539 510 514 724 855 565	726 734 690 655 544 520 526 503 489 491 494 547 544 489	743 751 752 680 562 537 537 526 504 501 527 615 558 538	524 549 549 531 521 534 606 585 581 565 534 529 533 521	AUGUST 498 519 520 514 510 513 518 526 563 523 522 519 513 474	508 528 535 524 516 526 540 545 571 553 527 524 524 507	1380 908 879 916 915 763 741 741 733 750 754 858 967 966	809 879 804 854 717 721 719 711 707 696 725 746 858 930	974 894 835 872 875 746 732 728 720 717 743 796 906 945
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	614 605 855 628 624 617 681 627 633 659 666 631 625 633 629 635 627	JUNE 592 572 582 603 605 591 611 610 618 611 620 624 696 614 603 608 601	606 593 646 616 610 610 618 622 630 626 637 652 621 606	768 776 773 701 655 553 549 539 510 514 724 855 565 562 525	726 734 690 655 544 520 526 503 489 491 494 547 547 548 489 495	743 751 752 680 562 537 526 504 501 527 615 558 538 518	524 540 549 531 521 534 606 585 581 565 534 529 533 521 515	498 519 520 514 510 513 518 526 563 523 522 519 513 474 485	508 528 535 524 516 526 540 545 571 553 527 524 524 507 508	1380 908 879 916 915 763 741 741 733 750 754 858 967 966 993	809 879 804 854 717 721 719 711 707 696 725 746 858 930 934 993 1020 1030	974 894 835 872 875 746 732 728 720 717 743 796 906 945 952
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	614 605 855 628 624 617 681 627 633 637 666 659 668 631 625 633 629 635 627 628 615 654 644 634	JUNE 592 572 582 603 605 591 611 610 618 611 620 624 602 596 614 603 608 603 595 578	606 593 646 616 613 610 618 622 630 626 637 652 621 606 625 618 621 615 620	768 776 773 701 655 553 549 539 510 514 724 855 565 565 565 525 704 672 521 578 608 613 608 581 575 565 539 537 543 530	726 734 690 655 544 520 526 503 489 491 494 547 544 489 495 505 463 499 503 489 572 587 578 560 511 514 502 502 503	743 751 752 680 562 537 526 504 501 527 615 558 538 518 516 561 559 512 519 585 603 594 570 566 551 530 514 520	524 540 549 531 521 534 606 585 581 565 534 529 533 521 515 518 535 1090 616 581 591 666 621 694 614 747 636 643 770 693	498 519 520 514 510 513 518 526 563 523 523 524 519 513 474 485 512 512 512 512 512 512 512 512 512 51	508 528 535 524 516 526 545 571 553 527 524 524 507 508 515 518 715 595 573 569 582 591 616 604 611 616 640	1380 908 879 916 915 763 741 741 733 750 754 858 967 966 993 1060 1080 1090 1090	809 879 804 854 717 721 719 711 707 696 725 746 858 930 934 993 1020 1030 1050 1050 1050	974 894 895 872 875 746 732 728 720 717 743 796 906 945 952 1020 1040 1060 1070 1080 1080 1080
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	614 605 855 628 624 617 681 627 633 637 666 659 668 631 625 627 628 615 629 635 627 628 615 640 640 638 711 703 761 800	JUNE 592 572 582 603 605 605 605 601 618 611 620 624 602 596 614 603 608 601 608 603 595 578 595 576 630 635 653 737	606 593 646 616 613 610 610 618 622 630 626 637 652 621 601 602 625 618 621 615 620 609 622 617 614	768 776 773 701 655 553 549 510 514 724 855 565 562 525 525 704 672 521 578 608 613 608 613 608 613 608 613 608 613 608 613 675 543	726 734 690 655 544 520 526 503 489 491 494 547 544 489 505 463 499 503 489 572 587 578 560 551 535 514 502	743 751 752 680 562 537 526 504 501 527 615 558 538 518 516 561 559 512 519 585 603 594 570 566 551 530 514 524	524 540 549 531 521 534 606 585 581 565 533 521 515 518 535 1090 616 581 591 666 621 694 614 747 636 643 770	AUGUST 498 519 520 514 510 513 518 526 563 523 522 519 513 474 485 512 535 579 564 553 560 578 594 593	508 528 535 524 516 526 540 545 571 553 527 524 524 508 515 518 715 595 573 569 582 591 616 604	1380 908 879 916 915 763 741 741 733 750 754 858 967 966 993 1060 1080 1090 1090 1090	809 879 804 854 717 721 719 711 707 696 725 746 858 930 934 1020 1030 1050 1020 1040 1010 1040 1010 1020 1020 102	974 894 835 872 875 746 732 728 720 717 743 796 906 945 952 1020 1040 1060 1070 1080 1080 1080 1080 1080 1040 988

07109500 ARKANSAS RIVER NEAR AVONDALE, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		D	ECEMBER			JANUARY	
1 2 3 4 5	18.3 16.1 14.9 16.7 17.7	13.0 12.0 11.7 11.0 12.4	15.5 14.2 13.4 13.8 15.1	11.9 11.3 12.3 12.5 12.4	9.4 7.8 7.9 8.3 9.1	10.7 9.7 10.2 10.6 10.8	8.7 8.2 6.7 5.6 5.5	6.9 6.4 4.9 4.2 2.5	5./	5.8 5.6 4.8 3.0 5.9	1.4	4.6 4.6 3.2 1.5 4.0
6 7 8 9 10	17.6 16.6 16.2 17.6 17.7	12.9 12.5	15.6 15.7 14.5 15.1 15.6	12.3 12.3 12.8 13.2 12.1	8.2 8.5 9.0 9.7 8.6	10.4 10.7 11.1 11.5 10.6	6.3 6.3 5.1 5.3	3.4 3.9 4.2 2.8 2.8	4.9 5.2 4.5 4.2 3.9	5.4 3.9 5.2 4.4 5.4	3.2 .9 2.3 2.2 1.9	4.3 2.6 3.7 3.3 3.6
12	18.5 18.0 17.6 17.5 16.1	13.4 13.2 13.5 12.8 12.5	16.0 15.8 15.6 15.2 14.4	12.3 11.9 11.8 11.3 11.4	8.5 8.3 8.0 8.1 7.6	10.5 10.2 10.1 9.9 9.6	5.8 4.9 3.4 3.9 2.8	3.5 2.1 1.9 1.8 .1	4.5 3.6 2.7 2.9 1.6	5.0 6.8 5.5 4.6 5.9	1.8 2.8 2.9 2.1 2.8	3.5 4.7 4.4 3.4 4.3
18	14.1 12.7 11.9 13.7 14.4	8.9 7.9 9.3 9.9 9.8	11.1 10.2 10.8 11.7 12.2	11.3 11.5 10.9 9.1 9.0	7.7 7.7 8.1 5.7 6.3	9.6 9.8 9.8 7.7 7.7	5.2 5.5 4.7 4.7 3.1	1.3 3.8 2.1 2.4 1.5	3.2 4.5 3.6 3.6 2.4	5.7 6.5 7.0 7.6 6.0	3.1 3.2 4.2 4.4 3.3	4.5 4.9 5.6 5.9 4.9
21 22 23 24 25	15.1 14.9 14.6 14.7 14.6	10.5 10.7 10.6 10.4	12.9 12.9 12.8 12.6 12.8	8.9 7.7 6.0	6.3 5.5 3.7	7.2 6.5 5.0	2.0 3.5 4.7 5.3 5.5	.2 .7 1.0 1.8 2.2	1.1 2.2 2.8 3.7 4.0	6.1 6.3 5.5 5.6 4.8	3.2 3.4 2.5 1.9 2.7	4.8 5.0 4.1 3.8 3.5
2.7	14.6 13.2 13.4 12.2 12.4 12.9	10.5	12.5 11.9 11.6 10.8 10.2	9.4 8.6 8.6 7.4 8.5	5.0 6.5 5.7 6.3 6.1	7.1 7.7 7.3 6.8 7.4	6.0 5.6 6.0 5.8 5.4 4.9	3.1 2.2 2.7 3.0 2.8 2.2	4.5 4.0 4.4 4.5 4.2 3.7	5.2 4.2 4.0 3.7 2.7 3.4	2.2 2.4 2.5 1.0 .0	3.6 3.4 3.3 2.4 1.5
MONTH	18.5	7.9	13.3				8.7	.1	4.0	7.6	.0	3.8
MINIM												
DAY	MAX	MIN		MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	MAX	MIN FEBRUARY	MEAN		MARCH			APRIL			MIN MAY	MEAN
	MAX	MIN FEBRUARY .8 1.4 3.9	MEAN		MARCH	7.5 6.6 6.6 8.2 8.3		APRIL	7.7 7.5 7.4 8.9 10.9			
DAY 1 2 3 4 5	MAX 4.8 7.0 8.0 7.3 7.1	MIN FEBRUARY .8 1.4 3.9 4.3 2.5	MEAN 2.9 4.2 6.0 5.8 5.1		MARCH 5.6 5.2 4.0 5.4 6.5		10.3 9.1 9.4 12.8 13.8	APRIL 5.4 5.2 5.4 5.2 7.4 8.4	7.7 7.5 7.4 8.9 10.9	15.1 17.0 18.4 21.1 22.0	MAY 9.2 10.0	11.8 13.6 14.9 17.4 18.3
DAY 1 2 3 4 5 6 7 8 9 10	MAX 4.8 7.0 8.0 7.3 7.1 8.0 8.2 7.8 6.8 6.2	MIN FEBRUARY .8 1.4 3.9 4.3 2.5 3.3 2.5 3.3 3.4 3.2 5.3 3.5 2.9 2.6 2.9	MEAN 2.9 4.2 6.0 5.8 5.1 5.9 6.0 4.9	9.0 8.2 9.6 11.0	MARCH 5.6 5.2 4.0 5.4 6.5 5.5 6.4 6.2 4.9 5.0	7.5 6.6 6.6 8.2 8.3 7.6 8.2 7.4 6.6	10.3 9.1 9.4 12.8 13.8 13.9 12.5 12.4 14.4	APRIL 5.4 5.2 5.4 5.2 7.4 8.4 8.1 6.5 7.8	7.7 7.5 7.4 8.9 10.9 11.3 10.5 9.7 11.2 11.3	15.1 17.0 18.4 21.1 22.0 18.9 17.3 15.1 16.6 17.7	9.2 10.0 11.1 13.9 14.8	11.8 13.6 14.9 17.4 18.3
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	MAX 4.8 7.0 8.0 7.3 7.1 8.0 8.2 7.8 6.8 6.2	MIN FEBRUARY .8 1.4 3.9 4.3 2.5 3.3 2.5 3.3 3.4 3.2 5.3 3.5	MEAN 2.9 4.2 6.0 5.8 5.1 5.9 6.0 4.9	9.0 8.2 9.6 11.0 10.3 9.8 9.7 8.7 8.4 8.3	MARCH 5.6 5.2 4.0 5.4 6.5 5.5 6.4 6.2 4.9 5.0	7.5 6.6 6.6 8.2 8.3 7.6 8.2 7.4 6.6	10.3 9.1 9.4 12.8 13.8 13.9 12.5 12.4 14.4	5.4 5.2 5.4 5.2 7.4 8.4 8.1 6.5 7.8 8.9	7.7 7.5 7.4 8.9 10.9 11.3 10.5 9.7 11.2 11.3	15.1 17.0 18.4 21.1 22.0 18.9 17.3 15.1 16.6 17.7	9.2 10.0 11.1 13.9 14.8 14.9 11.6 11.4 10.5	11.8 13.6 14.9 17.4 18.3 16.4 14.3 12.3 13.3 14.6 14.7 13.7 12.8 13.6
DAY 1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19	MAX 4.8 7.0 8.0 7.3 7.1 8.0 8.2 7.8 6.8 6.2 4.8 6.0 6.0 8.1 9.7 7.7 7.2 7.2	MIN FEBRUARY .8 1.4 3.9 4.3 2.5 3.3 3.4 3.2 5.3 3.5 2.9 2.6 2.9 2.6 5.1 4.3 4.4 3.8 2.3	MEAN 2.9 4.2 6.0 5.8 5.1 5.9 6.0 5.8 6.0 4.9 3.6 4.9 3.6 7.3	9.0 8.2 9.6 11.0 10.3 9.8 9.7 8.4 8.3 10.3 9.4 10.6 11.1 9.0 9.6 9.0 8.0 9.9 8.7	MARCH 5.6 5.2 4.0 5.4 6.5 5.5 6.4 4.9 5.0 6.0 5.5 3.7 4.59 4.0 5.6	7.5 6.6 6.6 8.2 8.3 7.4 6.6 7.6 7.6 7.6 7.6 7.0 6.7	10.3 9.1 9.4 12.8 13.8 13.9 12.5 12.4 14.4 13.1 11.7 13.6 14.4 12.2 11.5	APRIL 5.4 5.2 7.4 8.4 8.1 6.5 7.8 8.9 8.7 7.2 8.4 8.0 6.9 7.1 9.5 8.8 8.7	7.7 7.5 7.4 8.9 10.9 11.3 10.5 9.7 11.2 10.4 11.1 10.0 9.0 12.5 12.4 13.2	15.1 17.0 18.4 21.1 22.0 18.9 17.3 15.1 16.6 17.7 17.4 16.5 16.5 16.6 18.0	MAY 9.2 10.0 11.1 13.9 14.8 14.9 11.6 10.5 11.4 10.5 11.4 11.8 10.6 9.7 10.3 10.9 11.6 10.2 9.6 10.5 11.2	11.8 13.6 14.9 17.4 18.3 16.4 14.3 12.3 13.3 14.6 14.7 12.8 13.6 14.6 13.3 11.9 11.8 13.7 14.0
DAY 1 2 3 4 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18 19 20 21 22 23 24	4.8 7.0 8.0 7.3 7.1 8.0 2.7 8.2 7.8 6.8 6.2 4.8 6.0 6.0 6.0 8.1 9.7 7.2 7.2 6.0	MIN FEBRUARY .8 1.4 3.9 4.3 2.5 3.3 3.4 3.2 5.3 3.5 2.9 2.6 2.9 2.6 5.1 4.3 4.4 3.8 2.8 3.2 5.2 6.0 5.8	MEAN 2.9 4.2 6.0 5.8 5.1 5.9 6.0 4.9 3.6 4.0 4.5 5.3 7.3 6.7 6.2 5.4 4.5 6.4 7.2 8.6 8.2	9.0 8.2 9.6 11.0 10.3 9.8 9.7 8.7 8.4 10.6 11.1 9.0 9.6 9.0 8.0 9.9 8.7	MARCH 5.6 4.0 5.4 6.5 5.5 6.4 6.2 4.9 5.0 4.9 6.0 5.5 3.7 4.5 5.9 4.6 4.2 4.6 5.7 7.5 7.5 8.1	7.5 6.6 6.6 8.2 8.3 7.4 6.6 7.6 7.6 7.6 7.6 7.6 6.7 7.6 6.9 7.6 6.9 7.6 6.9 7.6 8.2 8.3	10.3 9.1 9.4 12.8 13.8 13.9 12.5 12.4 14.4 13.1 11.7 13.6 14.4 12.2 11.5 14.0 14.8 15.4 13.7 16.0 15.5 14.3 14.4 17.6	APRIL 5.4 5.2 7.4 8.4 8.1 6.5 7.8 8.7 7.2 8.4 8.0 6.9 7.1 9.4 9.5 8.8 8.7 10.3 11.4 10.4 11.2	7.7 7.5 7.4 8.9 10.9 11.3 10.5 9.7 11.2 11.3 10.2 11.1 10.0 9.0 12.5 12.4 13.2 13.2 13.2 14.3	15.1 17.0 18.4 21.1 22.0 18.9 17.3 15.1 16.6 17.7 17.4 16.5 18.0 16.1 13.2 14.2 17.4 16.6	MAY 9.2 10.0 11.1 13.9 14.8 14.9 11.6 11.4 10.5 11.3 10.9 11.6 10.2 9.7 10.3 10.9 11.6 10.2 11.2 11.2 12.4 13.2 13.8	11.8 13.6 14.9 17.4 18.3 16.4 14.3 12.3 13.3 14.6 14.7 12.8 13.6 14.6 13.3 11.9 11.8 13.7 14.0

07109500 ARKANSAS RIVER NEAR AVONDALE, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		į	AUGUST			SEPTEMBE	R
1 2 3 4 5	17.3 16.4 17.8 18.0 18.1	12.6 12.9 12.1 12.8 13.0	14.7 14.4 14.7 15.1 15.2	25.1 25.8 24.4 24.2 23.3	17.1 18.6 19.1 17.5 16.2	21.0 22.0 21.6 21.0 19.9	24.5 25.6 25.1 25.3 25.7	18.4 18.7 19.5 19.6 19.4	21.6 22.1 22.2 22.3 22.4	25.1 24.7 22.3 25.3 26.1	18.5 19.5 19.6 19.1 21.0	21.7 22.1 20.7 21.9 23.5
6 7 8 9 10	17.7 19.2 19.2 19.6 19.5	13.0 13.1 13.2 13.5 13.3	15.2 15.8 16.2 16.4 16.4	23.2 23.8 23.3 23.8 24.1	17.0 17.6 16.8 17.6 17.8	20.2 20.4 19.9 20.6 20.8	24.1 25.1 25.7 26.0 26.6	19.3 18.8 18.9 19.4 19.7	21.8 21.9 22.3 22.7 23.0	25.9 24.1 24.6 25.0 25.2	19.6 18.9 18.5 18.5	22.7 21.5 21.3 21.7 21.7
11 12 13 14 15	20.0 20.3 20.5 20.2 20.8	13.8 13.7 14.2 13.5 13.5	16.8 17.0 17.3 16.7 16.8	23.6 23.6 25.1 24.9 24.5	18.0 18.1 18.3 18.5 18.5	20.6 20.7 21.5 21.6 21.5	25.9 25.3 26.3 26.1 25.9	19.9 20.1 19.8 19.9 20.0	22.8 22.7 22.9 22.8 22.7	25.2 24.4 26.0 24.9 25.1	18.3 17.7 17.4 18.0 17.6	21.6 21.0 21.7 21.5 21.3
16 17 18 19 20	19.7 17.7 18.4 20.2 21.4	14.1 13.6 13.5 14.7 14.8	16.6 15.5 16.0 17.4 18.0	23.3 23.4 24.3 24.4 24.0	18.6 18.6 18.0 18.4 18.8	20.7 20.7 20.9 21.3 21.1	24.5 24.6 23.8 25.5 25.7	19.8 19.9 18.4 20.4 20.2	22.1 22.1 21.4 23.0 23.0	26.3 24.4 24.8 24.2 19.5	17.3 17.5 18.0 16.6 14.9	21.8 21.3 21.3 20.4 17.1
21 22 23 24 25	21.5 21.5 20.0 22.1 21.1	15.1 15.3 15.4 15.1 15.6	18.2 18.4 17.8 18.4 18.6	23.9 24.6 25.8 23.6 25.8	18.7 19.0 18.8 18.4 18.5	21.5 21.8 22.2 21.2 22.0	24.7 26.0 25.7 26.2 26.4	19.8 20.0 19.7 20.2 20.4	22.3 22.8 22.9 23.3 23.4	22.4 20.3 16.0 15.4 17.4	12.8 16.0 12.3 11.1 10.1	17.6 17.8 13.6 12.9 13.7
26 27 28 29 30 31	19.5 20.6 20.1 22.8 23.4	16.0 16.3 17.1 16.7 17.0	17.7 18.2 18.6 19.7 20.2	24.3 23.9 23.6 24.2 24.0 24.8	19.0 18.4 18.4 18.2 18.8 18.6	21.8 21.2 21.0 21.1 21.3 21.7	24.8 25.4 26.1 23.9 24.9 24.1	20.2 19.9 20.4 20.1 20.5 20.1	22.5 22.8 23.4 22.2 22.7 22.2	19.4 20.5 21.1 19.1 22.1	11.7 13.0 13.2 14.9 14.9	15.6 16.7 17.3 16.9 18.4
MONTH	23.4	12.1	16.9	25.8	16.2	21.1	26.6	18.4	22.5	26.3	10.1	19.6

07116500 HUERFANO RIVER NEAR BOONE, CO

LOCATION.--Lat $38^{\circ}13^{\circ}30^{\circ}$, long $104^{\circ}15^{\circ}37^{\circ}$, in $NE^{1}/_{4}NE^{1}/_{4}$ 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 different datum.

REMARKS.--Records fair except for estimated daily discharges and discharges above 350 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. Instantaneous discharge and selected water-quality data collected as part of a basin-wide water-quality assessment of the lower Arkansas River basin in Colorado are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		DISCHAR	GE, CUBIC	FEET PER		WATER YE MEAN V	EAR OCTOBE ALUES	R 1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	32 33 35 31 26	36 33 26 29 31	30 29 33 31 32	36 23 20 20 27	23 22 17 15	8.9 10 12 11 9.7	57 56 56 52 56	199 153 101 39 23	8.5 8.4 35 9.0 7.9	3.6 4.8 6.8 4.5 1.9	.97 1.4 1.8 1.8	.00 .30 .29 .18
6 7 8 9 10	27 25 26 27 26	30 29 33 34 32	30 34 37 36 32	28 27 29 30 30	13 13 13 13 14	9.7 11 18 12 11	45 44 46 39 37	143 94 103 158 195	7.2 8.6 7.3 6.4 5.8	2.6 6.6 3.4 4.9 5.4	.32 .48 .20 .00	.00 .00 .00 .00
11 12 13 14 15	25 19 14 15 19	32 27 26 28 29	38 33 29 32 30	27 39 32 31 33	13 13 13 12 13	9.8 9.0 9.5 9.0 8.9	39 54 35 41 30	239 222 213 213 211	5.2 4.3 4.2 4.2 3.8	5.8 5.8 5.4 5.3 4.7	.00 .00 .00 .00	.00 .00 .00 .00
16 17 18 19 20	24 38 39 42 39	17 18 15 13	33 34 43 41 36	29 27 21 17 16	12 11 12 12	10 9.7 11 11 12	30 26 31 31 63	157 176 164 66 69	3.7 3.5 3.3 2.9 2.9	5.0 5.5 4.2 5.4 5.3	.00 .00 .00 .00	.00 .00 .00 .00
21 22 23 24 25	42 38 31 29 30	14 14 14 24 27	25 22 25 28 33	16 16 15 16 17	11 11 11 10 9.7	17 42 41 30 31	65 102 224 339 389	45 57 32 20 21	2.9 2.8 3.1 2.8 3.8	8.9 5.4 5.2 2.9 4.8	.00 .04 .11 .00	.00 .00 .00 .00
26 27 28 29 30 31	28 26 31 34 33 34	30 28 30 32 29	39 43 37 37 37 34	15 e15 e16 e17 e17 e18	9.4 9.4 9.5 8.8 	27 28 28 23 18 44	311 237 56 78 186	22 21 19 15 11 8.6	3.0 3.4 3.6 3.3 3.8	4.7 4.8 5.1 3.1 4.4 2.1	.00 .00 .00 .00	.27 .30 .30 .37 .43
TOTAL MEAN MAX MIN AC-FT	918 29.6 42 14 1820	774 25.8 36 13 1540	1033 33.3 43 22 2050	720 23.2 39 15 1430	370.8 12.8 23 8.8 735	542.2 17.5 44 8.9 1080	389 26 5660	239 8.6 6370	5.82 35 2.8 346	148.3 4.78 8.9 1.9 294	8.62 .28 1.8 .00 17	2.52 .084 .43 .00 5.0
							, BY WATER					
MEAN MAX (WY) MIN (WY)	11.0 46.7 1985 .000 1990	17.4 46.0 1986 .000 1990	16.7 40.2 1998 .000 1990	22.2 65.1 1984 .000 1990	25.6 65.2 1998 .13 1990	22.8 129 1984 2.12 1990	35.4 224 1998 .47 1990	163 1113 1987 .53 1992	105 667 1983 .16 1981	26.4 226 1995 .000 1989	30.3 254 1981 .28 2000	6.67 26.5 1995 .000 1980
SUMMARY	STATISTI	cs	FOR 1	.999 CALEN	DAR YEAR	I	FOR 2000 W	ATER YEAR		WATER YEA	ARS 1980	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		CAN CAN CAN CAN CAN CAK FLOW CAK STAGE CAC-FT) CDS CDS		20626.8 56.5 801 3.3 4.3 40910 184 26 7.3	May 2 Jul 15 Sep 2		.0 534	Apr 25 0 Aug 9 0 Aug 9 Apr 25 7 Apr 25		40.3 153 5.09 2900 a.00 .00 b8030 c10.90 29220 66 8.6	Aug 1 Oct Oct Aug 1	1987 1991 12 1981 1 1979 1 1979 12 1981 12 1981

e Estimated.

No flow many days most years.

a No flow many days most years.

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 slope—area measurement of peak flow.

From flood marks. Maximum gage height for statistical period, 11.75 ft, Jul 19, 1995.

07119500 APISHAPA RIVER NEAR FOWLER, CO

LOCATION.--Lat $38^{\circ}05^{\circ}28^{\circ}$, long $103^{\circ}58^{\circ}52^{\circ}$, in $SE^{1}/_{4}Nw^{1}/_{4}$ sec.35, T.22 S., R.59 W, Otero Country, Hydrologic Unit 11020007, on right bank on downstream side of county road bridge HH.5, 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, May 27, 1939 to July 30, 1940, on left bank at different datums. July 30, 1940 to Sept. 30, 1985, at datum 2.0 ft higher.

REMARKS.--No estimated daily discharges. Records good except Feb. 2 to Mar. 7, which are fair. Natural flow of stream affected by waste water from Oxford Farmers Co. and Rocky Ford Highline canals, and diversions upstream of 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SEP
7.9 10
9.6 5.8 8.2
5.7 5.5 4.9 4.9 5.3
7.5 11 9.1 9.2 8.5
6.7 6.7 8.6 8.4 7.5
8.60 18 4.9
154 1940 1.07
22 - 2000
1942 1964 y 19 1955 b 5 1951 n 30 1951 g 22 1923 l 31 1951
1

a From slope-area measurement of peak flow, at site 2 mi upstream from present site, caused by failure of

Apishapa Dam 31 mi upstream.

b At datum then in use. Peak stage for flood of Aug 22, 1923, unknown.

07119700 ARKANSAS RIVER AT CATLIN DAM NEAR FOWLER, CO

LOCATION (REVISED).--Lat $38^{\circ}07^{\circ}15^{\circ}$, long $103^{\circ}54^{\circ}49^{\circ}$, in $NE^{1}/_{4}NE^{1}/_{4}$ sec.20, T.22 S., R.58 W., Otero County, Hydrologic Unit 11020005, on right bank at Catlin Canal flume gage, 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 and Parshall flume on 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, ground-water withdrawals, diversions for irrigation, and return flow from irrigated areas. Flow partly regulated by Pueblo Reservoir (station 07099350) since Jan. 9, 1974.

DISCURDE CUDIC FEET DED CECOND MATER VERD OCTORED 1000 TO CERTEMBER 2000

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

		DISCHARO	GE, CUBIO	C FEET PE		WATER Y	EAR OCTOBER ALUES	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	429	786	869	846	578	477	1060	841	1720	641	861	469
2	346	796	901	850	582	506	1100	973	1690	625	693	440
3	362	841	911	846	520	517	1230	1030	1930	516	613	342
4	386	820	901	807	488	587	1240	853	1730	430	621	400
5	417	801	877	e796	496	606	1200	582	1600	658	665	e285
6	399	800	840	e826	506	590	1200	538	1650	1030	683	e206
7	371	789	825	799	e450	513	1190	695	1560	888	745	288
8	319	798	896	763	268	553	1110	873	1250	714	862	274
9	337	774	898	750	271	666	1100	989	1010	777	924	284
10	322	841	860	750	267	586	1140	1460	1130	922	743	254
11	309	785	795	740	328	519	1120	1300	1020	919	762	412
12	330	730	763	744	370	453	1150	1020	926	971	865	365
13	529	718	751	773	368	413	1120	877	755	884	838	289
14	557	715	758	e770	362	404	1260	1070	674	624	870	e216
15	611	726	e733	e772	357	455	1780	1090	912	699	955	182
16	600	465	740	e789	349	688	1030	999	950	781	818	218
17	599	369	760	e807	343	858	504	913	716	909	806	183
18	657	336	796	e820	355	1170	562	893	703	1270	1100	182
19	723	329	788	787	372	1120	608	902	768	1630	1150	176
20	695	318	e790	776	388	1080	584	1240	817	1520	918	162
21	744	308	e780	773	389	1050	560	1410	728	1250	809	140
22	736	314	768	794	394	1000	524	1240	676	925	836	159
23	684	454	747	794	406	842	536	e1060	673	783	837	161
24	655	536	741	781	393	779	723	e1000	715	733	889	190
25	619	552	741	775	377	730	702	1110	932	733	829	211
26 27 28 29 30 31	545 527 576 721 765 794	538 537 562 772 869	740 744 e752 809 801 836	757 704 701 703 636 598	365 376 348 440 	696 692 718 779 827 969	731 716 614 639 741	1360 1710 1690 1110 818 1670	940 958 1070 915 706	744 561 578 744 856 932	744 903 927 818 1180 737	286 254 236 215 212
TOTAL	16664	18979	24911	23827	11506	21843	27774	33316	31824	26247	26001	7691
MEAN	538	633	804	769	397	705	926	1075	1061	847	839	256
MAX	794	869	911	850	582	1170	1780	1710	1930	1630	1180	469
MIN	309	308	733	598	267	404	504	538	673	430	613	140
AC-FT	33050	37640	49410	47260	22820	43330	55090	66080	63120	52060	51570	15260
MEAN	422	450	396	435	409	428	628	1329	2154	1411	1041	458
MAX	1234	925	804	854	1249	912	1526	3901	4420	4108	2384	1209
(WY)	1985	1985	2000	1985	1985	1998	1987	1999	1995	1995	1984	1982
MIN	91.0	152	133	175	180	175	86.6	212	432	286	526	84.5
(WY)	1979	1979	1991	1990	1995	1978	1978	1981	1977	1977	1978	1977
ANNUAL ANNUAL HIGHEST		MEAN	FOR 1	1999 CALE 444081 1217	INDAR YEAR]	FOR 2000 WA 270583 739	TER YEAR		water a798 1327 351	YEARS 1975	- 2000 1995 1977
HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	T DAILY M DAILY ME SEVEN-DA TANEOUS P	EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		e16300 116 156 880800 3070 740 331	May 1 Mar 2 Feb 25		1930 140 166 d2460 g4.75 536700 1120 744 334	Jun 3 Sep 21 Sep 17 Jun 3 Jun 3		331 30,e16300 46 4,f26000 911. 578300 1700 472 207	Aug : Oct May	1 1999 14 1977 2 1978 1 1999 1 1999

Average discharge for 9 years (water years 1965-73), $636~{\rm ft}^3/{\rm s}$, $460800~{\rm acre-ft/yr}$, prior to completion of Pueblo Dam.

Maximum daily discharge for period of record, 43200 ${\rm ft}^3/{\rm s}$, Jun 18, 1965. Also occurred Sep 12, 1974.

Maximum combined instantaneous discharge.

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.

Gage height at Arkansas River gage.

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 fair. Records for water temperature are good. Daily data that are not published are either missing or of unacceptable quailty. Instantaneous discharge and selected water-quality data collected as part of a basin-wide water-quality assessment of the lower Arkansas River basin in Colorado are published elsewhere in this report.

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.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,610 microsiemens, Sept. 16; minimum, 636 microsiemens, July 20. WATER TEMPERATURE: Maximum, 30.3°C, July 14; minimum, 0.0°C, many days.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	<u>.</u>	N	OVEMBER		DI	ECEMBER			JANUARY	
1 2 3 4 5	1260 1270	1130 1170	1180 1220	1140 1130 1160 1150 1140	1110 1110 1110 1110 1130	1120 1120 1130 1120 1130	1250 1210 1160 1300 1330	1210 1140 1120 1130 1280	1240 1160 1140 1220 1300	1230 1210 1210 1220 1200	1190 1160 1180 1180 1170	1200 1180 1190 1200 1190
6 7 8 9 10	1210 	1170 1210 	1200 	1140 1150 1160 1160 1150	1130 1140 1140 1140 1130	1140 1140 1150 1150 1140	1320 1220 1180 1150 1160	1180 1180 1130 1120 1140	1220 1190 1150 1140 1150	1200 1190 1180 1190 1200	1170 1160 1160 1160 1160	1180 1180 1170 1170 1180
11 12 13 14 15	1180 1160 1170	1130 1140 1150	1140 1150 1150	1170 1200 1220 1240 1280	1150 1160 1190 1190 1230	1160 1190 1200 1210 1260	1220 1260 1260 1280 1350	1160 1220 1250 1250 1280	1210 1250 1260 1270 1320	1200 1190 1190 1180 1180	1160 1150 1160 1160 1140	1180 1170 1170 1170 1160
16 17 18 19 20	1200 1200 1220 1200 1190	1160 1160 1180 1130 1150	1180 1190 1200 1150 1170	1490 1530 1500 1520 1550	1250 1480 1480 1500 1510	1410 1500 1500 1510 1540	1330 1320 1310 1340 1360	1300 1290 1290 1310 1330	1310 1300 1300 1330 1340	1170 1160 1160 1140 1150	1130 1130 1130 1120 1130	1150 1150 1140 1140 1140
21 22 23 24 25	1190 1150 1170 1180 1220	1110 1120 1150 1160 1180	1140 1140 1160 1170 1210	1550 1530 1590 1380 1380	1530 1490 1380 1330 1340	1540 1520 1430 1360 1370	1380 1380 1370 1370 1360	1340 1340 1340 1350 1340	1360 1350 1360 1360 1350	1150 1150 1140 1140 1140	1130 1120 1110 1110 1120	1140 1130 1130 1120 1120
26 27 28 29 30 31	1260 1270 1260 1240 1190 1150	1220 1250 1220 1170 1150 1120	1250 1260 1240 1190 1170 1130	1400 1410 1410 1370 1260	1380 1380 1360 1250 1230	1390 1400 1390 1310 1250	1370 1370 1380 1330 1280 1270	1340 1340 1330 1250 1240 1210	1350 1360 1350 1290 1260 1240	1140 1150 1180 1200 1270 1290	1100 1120 1150 1170 1190 1150	1120 1130 1170 1190 1240 1250
MONTH				1590	1110	1290	1380	1120	1270	1290	1100	1170

07119700 ARKANSAS RIVER AT CATLIN DAM NEAR FOWLER, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	1280 1280 1360 1410 1420	1250 1250 1270 1360 1400	1270 1270 1320 1400 1410	1300 1300 1230 1240 1180	1200 1200 1200 1160 1150	1230 1220 1220 1200 1170	1040 1060 975 961 966	988 975 929 939 945	1020 1040 949 951 955	942 914 976 1050 1150	912 872 885 963 1050	931 888 946 989 1120
6 7 8 9 10	1420 1430 1560 1580 1560	1390 1380 1430 1530 1540	1400 1400 1510 1550 1550	1210 1310 1210 1240 1230	1170 1170 1170 1170 1200	1190 1230 1190 1200 1210	967 956 950 926 918	915 932 920 909 893	947 946 936 917 904	1140 1120 1020 939 918	1110 1020 935 918 822	1130 1090 958 934 858
11 12 13 14 15	1550 1440 1420 1420 1430	1440 1400 1400 1390 1400	1500 1420 1410 1410 1410	1230 1260 	1210 1230 1170	1220 1250 	908 885 849 797 721	885 849 797 721 681	898 867 820 767 698	901 949 988 990 947	840 890 949 930 931	870 905 964 951 941
16 17 18 19 20	1440 1430 1420 1420 1400	1400 1410 1390 1380 1370	1420 1420 1410 1400 1390	1170 1070 1020 958 964	1070 1020 937 940 938	1100 1060 957 951 948	801 936 956 961 929	681 801 936 928 918	716 866 949 939 923	986 1000 1020 1050 928	942 970 996 928 865	953 983 1000 1010 900
21 22 23 24 25	1400 1400 1380 1410 1450	1370 1370 1340 1360 1410	1380 1380 1370 1390 1430	959 985 1070 1110 1110	938 946 985 1070 1090	949 954 1040 1090 1100	936 975 998 1010 1010	922 936 944 970 1000	928 950 978 993 1010	867 911 919 929 912	848 862 907 903 845	859 874 913 917 894
26 27 28 29 30 31	1460 1450 1470 1470 	1420 1410 1360 1200	1440 1430 1410 1300	1090 1060 1050 1020 984 988	1050 1040 1020 978 951 926	1070 1050 1040 992 970 950	1010 998 991 987 937	985 986 972 934 898	992 993 983 958 915	845 785 754 879 877 822	778 734 729 752 822 718	813 763 740 791 858 759
MONTH	1580	1200	1410				1060	681	924	1150	718	919
DAV	млч	MTN	MEAN	млу	MTN	MEAN	MAY	MTN	MEAN	млу	MTN	MEAN
DAY	MAX	MIN	MEAN	MAX	MIN.	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	ER
DAY 1 2 3 4 5	729 728 865 855 722		724 720 729 744 715	872 863 914		855 853 885			714 761 791 809 802	MAX		
1 2 3 4	729 728 865 855	JUNE 719 710 700 713	724 720 729 744	872 863 	JULY 844 845 850	855 853 	751 773 806 823	700 751 771 791	714 761 791 809	 	907 1030 	ER
1 2 3 4 5 6 7 8 9	729 728 865 855 722 718 731 774 783	JUNE 719 710 700 713 708 686 696 723 770	724 720 729 744 715 704 715 740 776	872 863 914 844 777 823 816	JULY 844 845 850 844 720 724 776 744	855 853 885 751 751 807 790	751 773 806 823 817 815 801 792 770	700 751 771 791 785 793 761 730 716	714 761 791 809 802 804 790 773 732	 1420 1250 1230 1210	907 1030 1250 1130 1170 1080	======================================
1 2 3 4 5 6 7 8 9 10 11 12 13 14	729 728 865 855 722 718 731 774 783 775 789 827 866 899	JUNE 719 710 700 713 708 686 696 723 770 750 771 783 816 832	724 720 729 744 715 704 715 740 776 760 780 796 837 872	872 863 914 844 777 823 816 744 735 802 875 819	JULY 844 845 850 844 720 724 776 744 712 707 718 767 776	855 853 885 751 751 807 790 730 719 738 804 803	751 773 806 823 817 815 801 792 770 832 811 760 749 750	700 751 771 791 785 793 761 730 716 770 760 730 721	714 761 791 809 802 804 790 773 732 811 789 744 740	1420 1250 1210 1160 1050 1080 1200	907 1030 1250 1130 1170 1080 1050 964 1020 1060	1360 1180 1200 1100 1100 1060 1120
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	729 728 865 855 722 718 731 774 783 775 789 827 866 899 835 792 814 804 778	JUNE 719 710 700 713 708 686 696 723 770 750 771 783 816 832 756 749 792 778 713	724 729 744 715 704 715 740 776 780 780 796 837 872 805 762 808 792 754	872 863 914 844 777 823 816 744 735 802 875 819 833 788 899 824 729	JULY 844 845 850 844 720 724 776 741 707 718 767 776 711 709 704 669 639	855 853 885 751 807 790 730 719 738 804 803 794 751 750 729 680	751 773 806 823 817 815 801 792 770 832 811 760 749 750 724	AUGUST 700 751 771 791 785 793 761 730 710 760 730 721 721 721 721 721 721 721 721 721 721	714 761 791 809 802 804 790 773 732 811 789 744 740 740 740 740 746 738 903	1420 1250 1230 1210 1160 1080 1200 1200 1200 1570 1530	907 1030 1250 1130 1170 1080 1050 964 1020 1060 1300 1280 1490 1480	1360 1180 1200 1160 1120 1120 1120 1120 1120 112
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	729 728 865 855 722 718 731 774 783 775 789 827 866 899 835 792 814 804 804 767 774 766 769 771 747	JUNE 719 710 700 713 708 686 696 723 770 750 771 783 816 832 756 749 792 778 711 743 762 747 736	724 729 744 715 740 776 760 780 796 837 872 805 762 808 7924 754 754 765 765 763	872 863 	JULY 844 845 850 844 720 724 776 744 712 707 718 767 776 711 709 639 636 650 739 798 788 787 780 769 729	855 853 885 751 751 807 790 730 719 738 804 803 794 751 750 729 680 650 673 777 808 808 809 784	751 773 806 823 817 815 801 792 770 832 811 760 724 750 762 881 1060 797 798 831 829 813 853 842 808 834	700 751 791 785 793 761 730 716 770 760 730 721 721 673 670 710 682 794 783 786 752 799 778 766 779 778 769 799	714 761 791 809 802 804 790 773 732 811 789 744 740 740 738 903 792 776 811 793 796 811 793 796 815 789 816	1420 1250 1230 1210 1160 1080 1200 1610 1530 1570 1530 1530 1560 1580 1520 1510	907 1030 1250 1130 1170 1080 1050 964 1020 1060 1300 1280 1490 1480 1490 1480 1500	1360 1180 1200 1160 1100 1120 1120 1120 1520 1520 1530 1520 1530 1549 1549
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	729 728 865 855 722 718 731 774 783 775 789 827 866 899 835 792 814 804 778 743 766 7711 747 738 707 750 764 844	JUNE 719 710 700 713 708 686 696 723 770 750 771 783 816 832 756 749 792 778 711 743 762 747 736 705 690 690 719 741 764	724 729 744 715 740 776 760 780 837 872 805 762 808 792 754 752 765 763 741 752 765 763 741 8698 737 751 887	872 863 914 844 777 823 816 744 735 802 875 819 833 788 899 824 729 665 739 803 817 829 729 787 823 823 824 829 829 829 829 829 829 829 829 829 829	JULY 844 845 850 844 720 724 776 744 712 707 718 767 771 709 639 636 650 739 798 783 778 777 780 769 724	855 853 885 751 751 807 790 730 719 738 804 803 794 751 750 729 680 650 673 777 808 809 784	751 773 806 823 817 815 801 792 770 832 811 760 749 750 762 881 1060 797 798 796 831 829 813	AUGUST 700 751 771 791 785 793 761 730 716 770 760 730 721 721 721 721 721 722 794 783 786 752 790 778 778 776 770 770 770 770 770 770 770 770 770	714 761 791 809 802 804 790 773 732 811 789 744 740 703 720 746 738 903 792 792 776 811 793 796	1420 1250 1230 1210 1160 1080 1200 1610 1530 1570 1530 1530 1530 1540 1540 1540 1540 1540 1540 1540 154	907 1030 1130 1170 1080 1050 964 1020 1060 1300 1480 1480 1480 1500 1500 1490 1460 1320 1290 1310 1370 1430 1370	1300 1520 1520 1550 1490 1480 1480 1480 1480 1480 1480 1480 148

ARKANSAS RIVER BASIN 07119700 ARKANSAS RIVER AT CATLIN DAM NEAR FOWLER, CO--Continued

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAY MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN OCTOBER NOVEMBER DECEMBER JANUARY 10.8 10.1 7.9 6.2 9.2 8.2 7.1 8.0 6.5 6.4 5.4 5.2 2.3 3.7 4.1 18.7 11.1 14.2 1 2 5.0 ---3 ------10.4 5.9 8.2 6.1 3.8 4.8 4.3 2.5 4 5 ---10.7 6.6 7.6 8.8 4.5 2.3 3.5 1.4 . 0 2.3 ___ ___ ___ 11.3 9.3 3.4 2.0 4.1 1.0 1.4 6 7 17.8 11.9 14.6 11.1 6.7 8.9 4.1 2.6 4.7 2.3 3.2 17.2 12.4 15.0 11.2 6.9 9.1 4.8 3.2 2.8 . 0 1.5 11.9 9.8 3.5 2.7 .8 2.0 ---------2.9 3.9 12.0 8.6 10.2 . 0 1.5 2.3 10 11.3 3.5 1.1 4.5 11 11.4 7.4 9.4 4.3 2.1 3.0 3.8 .8 2.4 ---------12 11.1 7.1 9.1 3.7 2.1 . 5 2.2 5.5 1.8 3.7 3.9 13 11.0 8.8 5.3 2.6 17.8 11.8 11.7 14 14 7 10 7 6 8 8 7 1.8 Ω .8 3 3 2.4 2.7 15 10.5 8.5 .0 4.2 1.5 15.6 13.7 6.4 1.1 3.1 3.9 3.7 .0 1.6 1.4 5.0 5.5 6.7 16 17 13.2 11.2 10.1 6.1 1.4 5.9 6.4 8 6 11 8 8 9 2 6 4 1 18 8.8 9.6 2.6 3.8 10.8 19 12 7 8 2 10.3 10 1 4 3 7.1 3.5 1.7 2.5 7.1 4 4 5 5 10.7 1.1 20 13.5 8.1 2.1 5.7 4.3 6.7 2.9 4.4 9.4 21 14.1 9.0 11.5 9.7 4.1 6.9 .1 .0 .0 5.6 2.8 4.2 22 23 14.2 9.5 11.8 6.8 4.6 6.0 1.4 .0 6.2 2.9 4.5 2.8 4.2 4.7 9.6 7.2 .0 1.1 3.9 14.4 11.9 2.8 4.9 5.6 4.7 2.3 24 14 5 9 4 11 9 4 2 5 5 1 5 25 2.7 14.5 9.3 11.8 5.4 1.9 3.8 1.0 2.7 3.8 1.6 5.7 26 14.7 8.7 11.7 8.5 5.3 1.2 2.7 3.1 1.9 3.4 4.4 4.1 2.6 27 12.4 10.8 9.7 1.3 1.3 28 12.9 7.9 9.0 4.9 5.4 4.9 4.6 10.3 6.8 1.6 3.4 1.8 2.7 29 30 8.0 9.8 6.3 3.4 3.6 .3 4.9 6.5 1.4 10.8 31 6.9 9.2 3.8 1.0 2.5 2.4 .0 .8 MONTH ___ ---12.2 1.9 7.9 8.0 .0 2.5 7.1 .0 3.0 MAX MEAN MAX MIN MAX MIN MIN DAY MIN MEAN MEAN MAX MEAN FEBRUARY MARCH APRIL MAY 9 9 4.0 Ω 1.7 10 5 6.0 8.5 9 6 4 0 6 6 14 4 11 8 7.2 5.8 .5 3.1 8.9 11.0 8.6 18.1 11.6 14.8 5.6 6.6 7.1 5.4 5.5 4.7 14.4 16.5 17.7 3 8.0 7.6 3.3 10.6 4.2 10.5 8.8 20.4 17.4 4.0 9.1 12.9 9.9 23.2 6.0 12.0 5 7.5 1.9 12.3 7.6 9.6 15.5 10.6 13.1 25.4 21.4 23.6 20.7 6 7 8.6 3.2 5.8 11 7 5.4 8.6 16.2 14.7 11.5 13 9 17.6 9.0 3.4 20.6 6.1 12.0 8.4 10.1 11.4 13.0 16.5 18.6 9.5 8.5 2.4 5.2 5.9 6.7 10.4 11.2 6.9 9.0 11.6 13.3 8 8.7 13.8 18.1 13.7 15.7 18.9 8.3 16.1 15.4 10 7.3 2.8 5.0 9.3 6.2 7.7 14.9 12.1 13.6 20.0 14.5 17.3 11 12 1.9 2.6 4.7 13.5 15.2 11.2 9.7 12.3 12.4 4.3 5.9 11.3 11.7 7.9 19.9 8.8 19.0 13.6 16.1 13 6.7 2.1 4.1 16.6 11.6 14.2 18.1 12.9 15.4 9.3 5.6 14.9 14 16.5 13.2 18.5 13.0 15.9 15 11.6 6.8 10.4 10.0 11.5 20.5 17.7 16 10.1 3.9 7.0 11.0 5.3 7.8 14.9 11.0 19.2 16.2 17.7 17 18 7.1 9.5 4.4 3.0 5.8 5.9 11.3 6.2 7.1 8.7 8.3 15.5 18.9 9.4 11.4 12.3 14.6 16.5 14.2 14.7 12.2 12.8 10.1 5.0 10.4 19 8.6 1.7 5.1 7.9 15.2 10.6 12.9 18.6 11.6 15.1 20 1.9 8.7 17.9 13.3 18.4 16.8 10.7 7.5 21 11.7 14.7 20.4 5.3 6.2 4.4 5.1 4.8 7.7 16.3 17.9 22 11.2 8.0 5.3 19.4 12.5 15.6 22.3 19.4 23 9.4 23.5 21.1 13.5 11.1 14.5 11.8 13.1 11.6 6.8 19.6 17.6 21.4 24 25 8.9 15.0 2.3 26 10.6 6.0 15.6 11.2 13.3 19.0 12.1 15.4 19.9 16.6 18.3 16.0 15.9 17.5 11.5 10.7 2.8 7.0 7.1 16.6 13.5 10.0 11.1 13.2 12.4 20.5 19.9 14.3 13.5 17.2 16.8 20.2 21.3 18.1 18.7 27 28

29

30

31

MONTH

11.4

13.5

6.1

.0

8.6

5.8

15.2

11.8

6.9

9.7

6.9

4 3

12.1

5 5

20.1

16.2

20.5

14.7

10.8

4.0

17 0

12.6

13.1

23.4

23.2

20.8

25.4

18.6 17.9

9.9

20.5

19.4

17.6

07119700 ARKANSAS RIVER AT CATLIN DAM NEAR FOWLER, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
	JUNE			JULY				AUGUST			SEPTEMBER		
1 2 3 4 5	19.7 19.7 20.7 20.6 21.4	16.4 16.1 16.0 15.9 16.2	18.0 17.9 18.1 18.2 18.8	28.6 29.4 28.5	20.3 21.9 21.9 20.5	24.2 25.0 24.6	27.3 28.5 27.8 29.0 29.6	21.7 21.3 22.1 21.8 22.0	24.5 24.7 24.6 25.2 25.2	25.1 28.0	19.5 18.9 	22.4 	
6 7 8 9 10	21.6 22.5 23.6 23.5 23.1	17.0 17.0 18.3 17.9	19.3 19.8 20.8 20.7 20.6	27.5 28.6 28.9 29.0 28.4	21.9 21.6 21.0 21.8 22.7	24.7 24.7 24.6 25.4 25.4	28.6 28.1 27.9 28.2 28.9	21.8 20.3 21.0 22.2 21.3	24.5 24.0 24.5 25.0 24.8	28.2 25.1 23.2 26.7 26.8	17.1 18.2 16.9 17.1 17.0	21.8 21.5 20.2 21.4 21.7	
11 12 13 14 15	22.8 24.0 24.2 23.8 24.4	18.8 18.4 18.5 17.2 17.9	20.6 21.1 21.1 20.4 20.9	28.5 26.2 28.3 30.3 29.2	22.3 22.0 21.9 22.6 23.2	24.9 24.0 24.9 26.2 26.4	29.2 27.5 29.2 28.8 28.1	22.2 22.3 21.9 23.0 23.2	25.2 24.6 25.2 25.7 25.5	25.0 24.2 26.0 24.4 25.9	16.8 16.6 16.1 16.5 16.3	20.5 20.1 20.6 20.4 20.7	
16 17 18 19 20	22.5 19.1 22.7 24.4 24.6	17.6 15.2 15.8 18.2 18.9	19.7 17.3 19.1 21.2 21.7	26.4 26.2 26.9 26.1 26.2	22.9 21.0 21.6 21.0 21.8	24.4 23.7 24.2 23.8 24.0	27.4 26.0 23.6 25.9 27.8	21.7 21.4 20.8 19.8 22.3	24.4 23.4 22.0 22.8 24.9	26.2 25.4 23.8 24.9 21.0	16.3 16.5 16.5 14.5 13.1	20.9 20.6 19.8 19.1 16.2	
21 22 23 24 25	24.7 26.3 24.6 26.3 25.8	18.3 19.9 19.7 18.9 20.7	21.5 22.8 22.1 22.4 22.8	25.6 26.4 28.5 27.4 28.2	20.9 21.1 21.2 22.2 21.5	23.4 23.7 24.7 24.6 24.7	25.8 25.6 27.0 27.5 28.1	21.6 20.9 20.8 22.0 21.9	23.8 23.3 23.9 24.7 24.9	23.0 20.3 14.6 13.6 18.0	10.9 14.6 9.9 8.8 7.9	16.4 16.8 12.0 10.9 12.4	
26 27 28 29 30 31	22.7 22.4 22.0 24.3 25.4	19.1 18.1 19.0 18.7 19.1	20.8 20.1 20.5 21.3 22.4	28.3 27.8 27.6 27.3 27.6	22.6 21.6 21.4 20.8 21.7 21.7	25.2 24.2 24.1 24.6 24.7	25.8 26.1 27.2 26.6 24.7 24.6	21.4 20.4 21.9 21.5 22.3 19.9	23.6 23.2 24.5 24.0 23.5 22.1	19.2 20.7 20.9 19.3 21.5	10.3 11.9 12.5 14.1 13.9	14.2 15.9 16.5 16.8 17.7	
MONTH	26.3	15.2	20.4				29.6	19.8	24.3				

07121500 TIMPAS CREEK AT MOUTH, NEAR SWINK, CO

LOCATION.--Lat $38^{\circ}00^{\circ}11^{\circ}$, long $103^{\circ}39^{\circ}20^{\circ}$, in $NW^{1}/_{4}SW^{1}/_{4}$ sec.35, T.23 S., R.56 W., Otero County, Hydrologic Unit 11020005, on right bank at downstream side of 23rd Rd. Bridge, 1.7 mi southwest of Swink, and 2.9 mi upstream from mouth.

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 and those above 200 ft³/s, which are fair. 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 emperature 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.

		DISCHAR	GE, CUBIC	C FEET PER	R SECOND, DAILY	WATER YE MEAN V	EAR OCTOBER	1999 TO	SEPTEMBI	ER 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	96 111 141 156 136	119 109 108 114 103	52 53 54 49 27	22 21 21 21 20	17 17 17 17 17	101 106 119 97 94	264 181 143 57 53	152 129 116 94 76	76 48 59 71 63	47 50 48 43 49	53 52 58 61 57	69 66 68 86 83
6 7 8 9 10	114 123 125 114 126	102 105 105 98 97	27 27 28 40 40	20 20 20 19 19	17 17 17 17 17	80 64 57 37 68	56 56 71 76 70	57 66 66 98 107	49 46 44 47 48	50 51 49 48 46	58 56 51 49 51	49 58 61 59 56
11 12 13 14 15	143 121 116 98 87	103 104 103 101 88	40 37 27 24 24	19 19 19 18 20	18 17 17 17 17	33 31 27 26 31	76 89 104 98 114	102 84 82 77 81	57 56 50 48 44	50 57 55 53 50	53 54 53 49 49	61 66 63 58 52
16 17 18 19 20	119 119 114 107 117	72 65 65 62 66	25 24 23 23 23	19 19 19 19	17 17 17 17 17	42 38 30 38 42	116 98 84 89 108	84 91 97 97 71	48 52 52 48 44	55 75 159 129 113	49 57 71 61 68	62 51 45 44 42
21 22 23 24 25	120 119 116 108 101	62 73 90 77 43	22 22 22 22 22	19 19 18 18	17 17 17 17 16	39 45 50 26 37	93 80 78 84 81	51 47 47 44 55	44 48 48 49 44	116 106 106 97 e80	64 60 51 54 63	41 38 37 41 41
26 27 28 29 30 31	94 92 89 100 114 122	35 32 31 30 30	21 21 21 21 21 21	18 18 17 17 17	15 15 15 56 	42 37 38 46 58 214	64 50 44 43 96	60 53 59 51 47 55	52 60 53 51 51	60 57 51 52 52 54	71 86 100 94 99	37 39 42 41 38
TOTAL MEAN MAX MIN AC-FT	3558 115 156 87 7060	2392 79.7 119 30 4740	903 29.1 54 21 1790	589 19.0 22 17 1170	526 18.1 56 15 1040	1793 57.8 214 26 3560	2716 90.5 264 43 5390	2396 77.3 152 44 4750	1550 51.7 76 44 3070	2108 68.0 159 43 4180	1944 62.7 100 49 3860	1594 53.1 86 37 3160
							, BY WATER Y					
MEAN MAX (WY) MIN (WY)	91.4 265 1924 27.4 1979	77.8 210 1924 30.4 1992	35.3 109 1971 9.80 1979	23.5 60.4 1923 7.87 1975	31.3 84.6 1924 11.4 1976	61.1 201 1924 24.8 1981	66.2 170 1924 11.0 1978	77.7 187 1995 14.0 1981	82.5 318 1923 24.5 1981	74.9 200 1923 18.1 1974	87.0 401 1923 15.8 1974	73.5 159 1986 15.7 1974
SUMMARY	STATISTI	CS	FOR 1	1999 CALEN	IDAR YEAR	E	FOR 2000 WAT	TER YEAR		WATER YEA	ARS 1922	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		EAN EAN IN EAN EAK FLOW EAK STAGE AC-FT) EDS		29249 80.1 1190 13 13 58020 129 62 17	May 2 Jan 27 Feb 2		22069 60.3 264 15 16 a315 5.40 43770 112 52 18	Apr 1 Feb 26 Feb 22 Mar 31 Mar 31		65.5 130 25.2 2670 3.3 5.7 b12300 c21.11 47420 126 50 16	Aug Dec 1 Jul 1	1923 1975 17 1923 7 1977 7 1978 10 1978 10 1978

From rating curve extended above 247 ft³/s, on basis of slope-area and contracted-opening measurement of а

From rating curve extended above 232 ft^3/s , on basis of contracted-opening measurement of peak flow. From floodmark.

07123000 ARKANSAS RIVER AT LA JUNTA, CO

LOCATION.--Lat $37^{\circ}59^{\circ}26^{\circ}$, long $103^{\circ}31^{\circ}55^{\circ}$, in $\mathrm{SE}^1/_4\mathrm{NE}^1/_4$ 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. 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. 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 irrigat areas. Flow partly regulated by Pueblo Reservoir (station 07099350) since Jan. 9, 1974. Instantaneous discharge and selected water-quality data collected as part of a basin-wide water-quality assessment of the lower Arkansas River basin in Colorado are published elsewhere in this report. flow from irrigated

COOPERATION. -- Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey. DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	88 93 81 113 92	79 73 94 158 82	46 37 34 34 33	27 42 31 30 27	34 28 26 289 478	57 77 67 57 60	49 47 58 50 62	58 50 44 42 35	191 132 703 937 616	50 51 55 44 36	193 87 51 46 49	52 58 58 48 59
6 7 8 9 10	92 77 65 66 65	76 73 73 71 65	34 31 29 26 23	28 28 41 30 29	488 494 385 194 173	71 65 67 64 57	62 45 63 68 68	42 44 50 68 e82	693 480 246 120 87	38 35 36 44 44	56 82 124 236 214	66 34 65 84 82
11 12 13 14 15	67 62 65 64 72	71 63 64 67 62	20 28 22 22 27	27 37 32 27 26	147 169 183 180 183	55 55 54 46 45	67 73 62 50 63	104 65 55 60 57	120 84 76 61 55	33 46 121 46 39	138 92 99 71 56	63 111 104 72 42
16 17 18 19 20	74 62 64 71 59	37 32 31 30 32	35 34 42 32 31	69 35 28 29 47	194 193 179 175 185	58 57 55 72 50	200 78 72 70 55	46 37 49 48 46	130 60 51 47 42	44 127 111 204 278	59 54 145 120 83	36 71 69 60 48
21 22 23 24 25	53 55 54 55 61	31 31 32 28 26	32 29 27 41 45	44 36 34 33 62	197 124 77 70 61	67 57 34 37 29	47 45 49 57 42	79 49 37 32 32	40 39 42 39 40	104 61 51 48 44	68 60 65 65 69	38 34 38 58 64
26 27 28 29 30 31	66 64 65 71 92 114	22 17 18 19 107	34 31 30 28 28 28	34 61 39 60 60 63	59 53 54 54 	40 42 42 42 52 65	40 45 50 47 57	73 48 202 82 41 54	43 52 48 97 49	57 51 50 49 52 172	64 66 53 45 48 62	58 65 55 78 71
TOTAL MEAN MAX MIN AC-FT	2242 72.3 114 53 4450	1664 55.5 158 17 3300	973 31.4 46 20 1930	1196 38.6 69 26 2370	5126 177 494 26 10170	1696 54.7 77 29 3360	1841 61.4 200 40 3650	1811 58.4 202 32 3590	5420 181 937 39 10750	2221 71.6 278 33 4410	2720 87.7 236 45 5400	1841 61.4 111 34 3650
	ICS OF MC	NTHLY MEAI 128	N DATA F 122	OR WATER 1	YEARS 1975 159	- 2000, 114	BY WATER Y	YEAR (WY) 603	931	542	337	125
MEAN MAX (WY) MIN (WY)	1189 1985 8.82 1978	545 1987 4.21 1979	335 1987 13.5 1976	569 1998 9.50 1976	620 1985 6.37 1976	517 1998 19.6 1978	821 1998 6.67 1978	3375 1999 21.9 1981	4307 1995 103 1988	3634 1995 71.6 2000	1345 1984 66.2 1987	125 464 1982 9.59 1977
	STATISTI	CS	FOR		NDAR YEAR	F	OR 2000 WAS	TER YEAR		WATER YEA	RS 1975	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL	MEAN ANNUAL ME DAILY ME SEVEN-DAY ANEOUS PE RUNOFF (A	AN AN MINIMUM AK FLOW AK STAGE AC-FT)		227489 623 e19000 12 13	May 2 Mar 2 Feb 26		28751 78.6 937 17 23 1600 8.26 57030	Jun 4 Nov 27 Nov 23 Jun 4 Jun 4		a296 832 78.6 ,b19000 c2.5 3.0 ,f30000 d,g15.55 214500	May Dec Dec May May	1995 2000 2 1999 8 1978 4 1978 2 1999 2 1999
ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				2080 81 28			134 56 31			623 103 23		

e Estimated

Average discharge for 61 years (water years 1913-73), 244 ft³/s; 176800 acre-ft/yr, prior to completion of Pueblo Dam.

Pueblo Dam.

Maximum daily discharge for period of record, 61100 ft³/s, Jun 4, 1921.

Minimum daily discharge for period of record, no flow, Jan 20-22 and Mar 20-22, 1915.

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.

Peak discharge (estimated) includes an estimated 7600 ft³/s overflow that bypassed the main channel.

Gage height reflects the discharge flowing in the main channel.

07124000 ARKANSAS RIVER AT LAS ANIMAS, CO

LOCATION.--Lat $38^{\circ}04^{\circ}51^{\circ}$, long $103^{\circ}13^{\circ}09^{\circ}$, in $SE^{1}/_{4}NE^{1}/_{4}$ 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 mi^2 , of which 441 mi^2 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.--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 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 1999 TO SEPTEMBER 2000

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4	132 135 138 140	140 127 123 142	132 113 109 108	105 103 111 103	124 110 105 101	147 153 173 163	95 86 90 100	79 75 73 70	60 112 189 757	47 45 47 46	168 169 107 82	62 52 51 54
5	148	166	105	104	346	155	97	64	481	44	80	51
6 7 8 9 10	145 145 138 126 124	131 126 124 123 119	104 105 103 101 100	101 97 98 105 102	457 500 513 385 308	150 156 153 149 141	101 95 82 81 83	61 59 58 61 66	532 565 256 168 95	42 40 41 43 41	72 65 74 109 198	53 63 51 57 69
11	124	116	99	98	277	130	86	77	71	40	162	67
12 13 14 15	121 112 110 112	115 109 100 98	98 100 99 94	98 100 100 97	254 289 306 305	127 123 112 84	84 89 80 74	86 68 66 61	61 53 53 55	39 40 52 46	116 85 85 78	54 82 87 64
16	123	96	99	98	297	82	110	62	54	47	67	50
17 18	132 128	82 74	107 106	122 112	292 293	83 78	164 92	63 59	61 53	64 143	62 59	46 59
19 20	132 133	68 66	110 105	104 101	292 299	77 85	77 70	58 57	53 51	97 265	103 103	65 58
21 22 23	124 121 123	65 65 82	102 103 101	111 112 105	317 312 229	77 83 79	66 65 64	61 72 67	53 49 52	268 153 97	92 87 75	54 47 46
24 25	122 120	103 101	100 107	102 102	189 182	69 67	62 61	62 60	54 51	79 77	65 62	52 66
26 27 28 29 30	122 123 121 115 113	100 99 96 95 96	110 104 103 103 102	117 105 120 110 119	174 165 154 152	64 62 62 61 62	62 61 59 57 64	59 63 64 123 70	48 49 49 52 59	89 94 85 81 79	63 67 71 62 57	74 71 72 70 82
31 TOTAL	122 3922	3147	102 3234	121 3283	 7727	74 3281	2457	55 2079	4296	84 2455	55 2800	1829
MEAN MAX MIN AC-FT	127 148 110 7780	105 166 65 6240	104 132 94 6410	106 122 97 6510	266 513 101 15330	106 173 61 6510	81.9 164 57 4870	67.1 123 55 4120	143 757 48 8520	2455 79.2 268 39 4870	90.3 198 55 5550	61.0 87 46 3630
STATIST MEAN	ICS OF MO	NTHLY MEAI 151	N DATA F 143	OR WATER	YEARS 1975 200	- 2000, 125	BY WATER 134	YEAR (WY) 612	917	503	317	114
MAX (WY) MIN (WY)	1092 1985 5.13 1978	810 1998 6.05 1975	398 1998 8.40 1978	641 1998 8.45 1978	761 1985 18.5 1978	422 1998 9.44 1975	877 1987 10.8 1978	4043 1999 14.1 1981	4263 1995 36.4 1988	3339 1995 30.5 1981	1343 1999 55.2 1987	373 1984 9.12 1977
	STATISTI				NDAR YEAR	F	OR 2000 WA			WATER YEA		
LOWEST	MEAN 'ANNUAL M ANNUAL ME	AN		272380 746			40510 111			a298 841 84.1		1995 1976
LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	DAILY MEA SEVEN-DAY ANEOUS PE ANEOUS PE RUNOFF (A ENT EXCEE ENT EXCEE	N MINIMUM LAK FLOW LAK STAGE LC-FT) LDS LDS		22600 38 39 540300 2200 131 66	May 3 Apr 11 Apr 16		757 39 41 1130 7.63 80350 165 96 53	Jun 4 Jul 12 Jul 7 Jun 4 Jun 4		b22600 c3.0 4.1 d32900 f14.02 215800 585 118 16	Nov 3 Sep 2 May	3 1999 30 1974 26 1977 2 1999 2 1999
JU PERC	ENI BACEE	כעו		. 00				====		10		_

a Average discharge for 34 years (water years 1940-73), $203 \text{ ft}^3/\text{s}$; 147100 acre-ft/yr, prior to completion of

A Average discharge for 34 years (water years 1940-/3), 203 ft/8; 14/100 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.

From rating curve extended above 21,600 ft³/s, 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 current-meter measurement and slope-area measurement of over-flow channel.

f From floodmark.

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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 poor. Records for daily water temperature are poor. Daily data that are not published are either missing or of unacceptable quality. Instantaneous discharge and selected water-quality data collected as part of a basin-wide water-quality assessment of the lower Arkansas River basin in Colorado are published elsewhere in this report.

EXTREMES FOR PERIOD OF RECORD. --

NAMES FOR PERIOD OF RECORD.

7,950 microsiemens, Jan. 22, 1986; minimum, 310 microsiemens, July 21, 1990.

WATER TEMPERATURE: Maximum, 34.7°C, July 21, 1998; minimum, 0.0°C, many days.

EXTREMES FOR CURRENT YEAR . --

SPECIFIC CONDUCTANCE: Maximum, 4,640 microsiemens, Mar. 15; minimum, 1,130 microsiemens, June 4. WATER TEMPERATURE: Maximum, 34.1°C, July 15; minimum, 0.2°C, several days.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		DI	ECEMBER			JANUARY	
1	3130	2620	2850	3000	2690	2820	3400	2510	2880	3350	3240	3300
2	2880	2610	2780	3000	2910	2970	3250	2850	3090	3290	3260	3270
3	2820	2640	2740	3050	2960	3010	3270	3130	3210	3280	2930	3120
4	3020	2660	2800	3050	2530	2800	3240	3180	3210	3160	2920	3050
5	2910	2680	2800	2780	2340	2490	3290	3170	3210	3190	3020	3120
6	2980	2860	2940	3000	2780	2900	3260	3180	3220	3250	3140	3200
7	3010	2860	2930	3050	2930	3000	3300	3190	3240	3210	3060	3140
8	3150	3000	3060	3070	2990	3040	3300	3220	3260	3140	3070	3100
9	3270	3150	3220	3070	3010	3040	3320	3240	3280	3180	2840	3040
10	3310	3230	3260	3120	3050	3080	3350	3270	3310	3160	2840	3010
11	3340	3230	3280	3170	3080	3120	3390	3300	3360	3220	3160	3190
12	3310	3130	3210	3220	3020	3120	3390	3310	3340	3240	3160	3210
13	3440	3300	3360	3250	3180	3210	3490	3210	3340	3240	2960	3160
14	3440	3400	3420	3320	3220	3260	3440	3300	3370	3070	2950	3010
15	3490	3410	3450	3440	3300	3350	3640	3120	3390	3160	3070	3120
16	3410	2970	3260	3540	3230	3350	3370	3190	3310	3180	3120	3160
17	3200	2820	3040	3790	3530	3650	3400	3110	3300	3170	2350	2860
18	3240	3160	3190	3920	3770	3860	3200	3110	3160	3070	2440	2820
19	3190	3060	3140	4030	3890	3970	3300	3050	3190	3190	3070	3140
20	3120	3060	3090	4060	3970	4010	3160	3060	3110	3220	3160	3190
21	3280	3110	3220	4100	3990	4020	3210	3060	3130	3180	2840	3030
22	3240	3180	3210	4100	3980	4070	3170	3040	3090	3040	2860	2940
23	3180	3100	3150	4270	3200	3720	3180	3000	3090	3080	2860	3000
24	3140	3060	3090	3320	3210	3280	3110	2990	3050	3060	2940	3020
25	3160	3070	3120	3330	3280	3310	3060	2790	2940	3060	2940	3020
26 27 28 29 30 31	3110 3090 3120 3230 3230 3250	2990 2990 3040 3120 3200 2870	3050 3050 3080 3190 3220 3110	3370 3440 3450 3380 3380	3300 3340 3380 3350 3340	3340 3380 3420 3370 3370	2840 3010 3140 3220 3230 3280	2770 2810 3010 3110 3180 3200	2800 2950 3090 3160 3210 3250	3020 2960 2980 3020 3140 2980	2580 2750 2430 2500 2420 2610	2740 2890 2750 2840 2770 2750
MONTH	3490	2610	3110	4270	2340	3310	3640	2510	3180	3350	2350	3030

07124000 ARKANSAS RIVER AT LAS ANIMAS, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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5.	FECIFIC	CONDUCTA	IVCE (PIEC	MOSTEPHENS/	CM AI 23	DEG. C),	WAIDK ID	AR OCTOL	JEIK IJJJ	TO DEFIEM	JER 2000	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3040	2580	2770	3220	3100	3160	3920	3400	3600	4220	3860	4100
2	3060	2650	2940	3420	2920	3210	4290	3920	4030	3860	3560	3730
3 4	3220 3210	3060 3140	3160 3180	3120 3210	2920 2980	2990 3070	4050 3640	3640 3140	3920 3290	3890 3830	3480 3480	3670 3610
5	3180	1470	1860	3220	3080	3160	3270	3170	3240	3900	3420	3620
6				3240	3070	3140	3170	3040	3110	4120	3880	4000
7				3140	2960	3040	3250	3030	3100	3960	3580	3780
8	1840	1790	1810	3260	3020	3150	3560	3250	3430	3960 4340	3350	3800
9 10	2190 2310	1830 2190	2020 2260	3270 3270	3110 3130	3170 3170	3600 3440	3230 3250	3440 3330	3900	3770 3310	4050 3640
11 12	2350 2490	2300 2350	2320 2430	3460 3470	3270 3360	3390 3410	3450 3480	3240 3220	3320 3360	3640 3080	2770 2640	3300 2840
13	2410	2150	2260	3460	3420	3440	3310	3040	3130	3380	3040	3200
14	2210	2060	2120	4360	3400	3600	3540	3180	3330	3640	3320	3420
15	2220	2150	2190	4640	4360	4520	3640	3330	3480	3560	3350	3450
16	2220	2140	2180	4590	4370	4490	3420	1650	2840	3480	3190	3300
17	2230	2200	2220	4420	4200	4310	2600	1520	1920	3560	3290	3410
18 19	2220 2220	2160 2190	2190 2210	4520 4520	4240 3700	4350 4310	3460 3770	2600 3460	3060 3630	3930 3840	3500 3600	3650 3730
20	2270	2190	2230	4060	3300	3660	3820	3730	3780	3680	3380	3540
				44.50								
21 22	2220 2260	2160 2200	2190 2230	4150 4160	3790 3380	3960 3880	3810 3750	3520 3050	3690 3510	3770 3440	3240 2780	3420 2990
23	2650	2230	2470	4380	3430	3980				3420	3080	3200
24	2760	2610	2690	4600	4380	4500				3460	3210	3300
25	2790	2720	2760	4480	4240	4360				3720	3460	3610
26	2840	2770	2790	4240	4080	4160	3970	3660	3860	3750	3560	3640
27	2820	2750	2790	4220	4120	4180	4060	3720	3910	3710	2950	3310
28 29	3430 3140	2750 3050	2900 3090	4480 4610	4200 4350	4320 4450	4100 4130	3750 3840	3940 3990	3580 3090	3000 1570	3250 2200
30	2140			4520	4360	4430	4210	3550	3820	3600	2750	3260
31				4280	3750	4070				3780	3370	3620
MONTH				4640	2920	3780				4340	1570	3470
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN	MEAN		MIN AUGUST	MEAN	MAX	MIN SEPTEMBE	
		JUNE			JULY			AUGUST			SEPTEMBE	IR.
DAY 1 2	MAX 3740 2600		MEAN 3390 2180	MAX 3320 3300	JULY 3100	MEAN 3200 3250	2600	AUGUST	MEAN 2090 1930	MAX 2990 3100		
1 2 3	3740 2600 2720	JUNE 2410 1830 1300	3390 2180 2250	3320 3300 3390	JULY 3100 3200 3120	3200 3250 3240	2600 2120 2560	AUGUST 1750 1760 2120	2090 1930 2320	2990 3100 3040	SEPTEMBE 2540 2990 2930	2760 3040 3000
1 2 3 4	3740 2600 2720 1320	JUNE 2410 1830 1300 1130	3390 2180 2250 1250	3320 3300 3390 3240	JULY 3100 3200 3120 3110	3200 3250 3240 3190	2600 2120 2560 2720	1750 1760 2120 2560	2090 1930 2320 2680	2990 3100 3040 2990	2540 2990 2930 2780	2760 3040 3000 2900
1 2 3	3740 2600 2720	JUNE 2410 1830 1300	3390 2180 2250	3320 3300 3390	JULY 3100 3200 3120	3200 3250 3240	2600 2120 2560	AUGUST 1750 1760 2120	2090 1930 2320	2990 3100 3040	SEPTEMBE 2540 2990 2930	2760 3040 3000
1 2 3 4 5	3740 2600 2720 1320 1380	JUNE 2410 1830 1300 1130 1140	3390 2180 2250 1250 1250	3320 3300 3390 3240 3200	JULY 3100 3200 3120 3110 3040 2990	3200 3250 3240 3190 3120	2600 2120 2560 2720 2760	AUGUST 1750 1760 2120 2560 2610 2680	2090 1930 2320 2680 2710	2990 3100 3040 2990 3100	2540 2990 2930 2780 2780 2780	2760 3040 3000 2900 2950
1 2 3 4 5	3740 2600 2720 1320 1380 1400 1380	JUNE 2410 1830 1300 1130 1140 1180 1210	3390 2180 2250 1250 1250 1310 1300	3320 3300 3390 3240 3200 3150 3270	JULY 3100 3200 3120 3110 3040 2990 2990	3200 3250 3240 3190 3120 3080 3120	2600 2120 2560 2720 2760 2870 2930	1750 1760 2120 2560 2610 2680 2820	2090 1930 2320 2680 2710 2790 2870	2990 3100 3040 2990 3100 3180 2910	2540 2990 2930 2780 2780 2550 2490	2760 3040 3000 2900 2950 2940 2640
1 2 3 4 5	3740 2600 2720 1320 1380	JUNE 2410 1830 1300 1130 1140	3390 2180 2250 1250 1250	3320 3300 3390 3240 3200 3150 3270 3040	JULY 3100 3200 3120 3110 3040 2990	3200 3250 3240 3190 3120	2600 2120 2560 2720 2760	AUGUST 1750 1760 2120 2560 2610 2680	2090 1930 2320 2680 2710	2990 3100 3040 2990 3100 3180 2910 3100	2540 2990 2930 2780 2780 2780	2760 3040 3000 2900 2950 2940 2640 2970
1 2 3 4 5 6 7 8	3740 2600 2720 1320 1380 1400 1380	JUNE 2410 1830 1300 1130 1140 1180 1210	3390 2180 2250 1250 1250 1310 1300	3320 3300 3390 3240 3200 3150 3270	JULY 3100 3200 3120 3110 3040 2990 2850	3200 3250 3240 3190 3120 3080 3120 2950	2600 2120 2560 2720 2760 2870 2930 2840	1750 1760 2120 2560 2610 2680 2820 2350	2090 1930 2320 2680 2710 2790 2870 2670	2990 3100 3040 2990 3100 3180 2910	2540 2990 2930 2780 2780 2550 2490 2820	2760 3040 3000 2900 2950 2940 2640
1 2 3 4 5 6 7 8 9	3740 2600 2720 1320 1380 1400 1380 	JUNE 2410 1830 1300 1130 1140 1180 1210	3390 2180 2250 1250 1250 1310 1300	3320 3300 3390 3240 3200 3150 3270 3040 3020 3100	JULY 3100 3200 3120 3110 3040 2990 2990 2850 2720 2740	3200 3250 3240 3190 3120 3080 3120 2950 2900 2910	2600 2120 2560 2720 2760 2870 2930 2840	1750 1760 2120 2560 2610 2680 2820 2350	2090 1930 2320 2680 2710 2790 2870 2670	2990 3100 3040 2990 3100 3180 2910 3100 3080 2610	2540 2990 2930 2780 2780 2550 2490 2820 2610 2480	2760 3040 3000 2900 2950 2940 2640 2970 2930 2550
1 2 3 4 5 6 7 8 9 10	3740 2600 2720 1320 1380 1400 1380	JUNE 2410 1830 1300 1130 1140 1180 1210	3390 2180 2250 1250 1250 1310 1300	3320 3300 3390 3240 3200 3150 3270 3040 3020 3100	JULY 3100 3200 3120 3110 3040 2990 2990 2850 2720 2740 2860	3200 3250 3240 3190 3120 3080 3120 2950 2900 2910	2600 2120 2560 2720 2760 2870 2930 2840 2180	AUGUST 1750 1760 2120 2560 2610 2680 2820 2350 1650	2090 1930 2320 2680 2710 2790 2870 2670 1850	2990 3100 3040 2990 3100 3180 2910 3100 3080 2610 2650 2940	2540 2990 2930 2780 2780 2550 2490 2820 2610 2480 2430 2650	2760 3040 3000 2900 2950 2940 2640 2970 2930 2550 2540 2800
1 2 3 4 5 6 7 8 9 10	3740 2600 2720 1320 1380 1400 1380 3690	JUNE 2410 1830 1300 1130 1140 1180 1210 3510	3390 2180 2250 1250 1250 1310 1300 3570	3320 3300 3390 3240 3200 3150 3270 3040 3020 3100	JULY 3100 3200 3120 3110 3040 2990 2850 2720 2740 2860	3200 3250 3240 3190 3120 3080 3120 2950 2900 2910	2600 2120 2560 2720 2760 2870 2930 2840 2180	1750 1760 2120 2560 2610 2680 2820 2350 1650	2090 1930 2320 2680 2710 2790 2670 1850	2990 3100 3040 2990 3100 3180 2910 3100 3080 2610 2650 2940 2910	2540 2990 2930 2780 2780 2780 2550 2490 2820 2610 2480 2430 2650 2050	2760 3040 3000 2990 2950 2940 2640 2970 2930 2550 2580 2800 2320
1 2 3 4 5 6 7 7 8 9 10	3740 2600 2720 1320 1380 1400 1380	JUNE 2410 1830 1300 1130 1140 1180 1210	3390 2180 2250 1250 1250 1310 1300	3320 3300 3390 3240 3200 3150 3270 3040 3020 3100	JULY 3100 3200 3120 3110 3040 2990 2990 2850 2720 2740 2860	3200 3250 3240 3190 3120 3080 3120 2950 2900 2910	2600 2120 2560 2720 2760 2870 2930 2840 2180	AUGUST 1750 1760 2120 2560 2610 2680 2820 2350 1650	2090 1930 2320 2680 2710 2790 2870 2670 1850	2990 3100 3040 2990 3100 3180 2910 3100 3080 2610 2650 2940 2910 2190	2540 2990 2930 2780 2780 2780 2550 2490 2610 2480 2430 2650 2050 2060	2760 3040 2900 2950 2950 2940 2640 2970 2930 2550 2540 2800 2320 2110
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	3740 2600 2720 1320 1380 1400 1	JUNE 2410 1830 1300 1130 1140 1180 1210 3510 3600	3390 2180 2250 1250 1250 1310 1310 3570 3690	3320 3300 3390 3240 3200 3150 3270 3040 3020 3100 3220 	3100 3200 3120 3110 3040 2990 2990 2850 2720 2740 2860	3200 3250 3240 3190 3120 3080 3120 2950 2900 2910	2600 2120 2560 2720 2760 2870 2840 2180	1750 1760 2120 2560 2610 2680 2820 2350 1650	2090 1930 2320 2680 2710 2790 2870 2670 1850	2990 3100 3040 2990 3100 3180 2910 3100 3080 2610 2650 2940 2910 2190 2610	2540 2990 2930 2780 2780 2780 2490 2490 2490 2410 2480 2430 2650 2050 2060 2190	2760 3040 3000 2900 2950 2940 2640 2970 2930 2550 2540 2800 2320 2110 2400
1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15	3740 2600 2720 1320 1380 1400 1380 3690 3770 	JUNE 2410 1830 1300 1130 1140 1180 1210 3510 3600	3390 2180 2250 1250 1250 1310 1300 3570 3690 	3320 3300 3390 3240 3200 3150 3270 3040 3020 3100 3220 	3100 3200 3120 3110 3040 2990 2990 2850 2720 2740 2860	3200 3250 3240 3190 3120 3080 3120 2950 2900 2910	2600 2120 2560 2720 2760 2870 2930 2840 2180	1750 1760 2120 2120 2560 2610 2820 2350 1650	2090 1930 2320 2680 2710 2790 2870 2670 1850	2990 3100 3040 2990 3100 3180 2910 3100 3080 2610 2650 2940 2190 2610	2540 2990 2930 2780 2780 2780 2550 2490 2610 2480 2430 2650 2050 2060 2190	2760 3040 3000 2900 2950 2940 2640 2970 2930 2550 2540 2800 2320 2400 2760
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	3740 2600 2720 1320 1380 1400 1	JUNE 2410 1830 1300 1130 1140 1180 1210 3510 3600	3390 2180 2250 1250 1250 1310 1310 3570 3690	3320 3300 3390 3240 3200 3150 3270 3040 3020 3100 3220 	3100 3200 3120 3110 3040 2990 2990 2850 2720 2740 2860	3200 3250 3240 3190 3120 3080 3120 2950 2900 2910	2600 2120 2560 2720 2760 2870 2930 2840 2180 2180	AUGUST 1750 1760 2120 2560 2610 2680 2820 2350 1650 2700 2720	2090 1930 2320 2680 2710 2790 2670 1850 2780 2800	2990 3100 3040 2990 3100 3180 2910 3100 3080 2610 2940 2910 2190 2610	2540 2990 2930 2780 2780 2780 2490 2490 2490 2610 2480 2650 2050 2050 2060 2190	2760 3040 3000 2900 2950 2940 2640 2970 2930 2550 2540 2800 2320 2110 2400 2760 2890
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	3740 2600 2720 1320 1380 1400 1380 3690 3770 3570 3450	JUNE 2410 1830 1300 1130 1140 1210 3510 3600 3040 3040	3390 2180 2250 1250 1250 1310 1300 3570 3690 3410 3310	3320 3390 3240 3200 3150 3270 3040 3020 3100 3220 2540	JULY 3100 3200 3120 3110 3040 2990 2850 2720 2740 2860 1640	3200 3250 3240 3190 3120 3080 3120 2950 2910 3050 2160	2600 2120 2560 2720 2760 2870 2930 2840 2180 2850 2870 2870 3020 2380	AUGUST 1750 1760 2120 2560 2610 2680 2820 2350 1650 2700 2720 2370 1940	2090 1930 2320 2680 2710 2670 1850 2780 2800 2890 2890 2120	2990 3100 3040 2990 3100 3180 2910 3100 2610 2650 2940 2910 2190 2610 2880 2950 2890 2770	2500 2500 2500 2500 2500 2500 2500 2500	2760 3040 3000 2900 2950 2940 2640 2970 2930 2550 2550 2540 2800 2320 2110 2400 2690 2690 2610
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	3740 2600 2720 1320 1380 1400 1380 3690 3770 3570	JUNE 2410 1830 1300 1130 1140 1180 1210 3510 3600 3040	3390 2180 2250 1250 1250 1310 1310 3570 3690 3410	3320 3390 3240 3200 3150 3270 3040 3020 3100 3220 	JULY 3100 3200 3120 3110 3040 2990 2850 2720 2740 2860	3200 3250 3240 3190 3120 3080 3120 2950 2910 3050	2600 2120 2560 2720 2760 2870 2880 2180 2180 2850 2870 3020	1750 1760 2120 2560 2610 2680 2350 1650 2700 2720 2370	2090 1930 2320 2680 2710 2790 2870 2670 1850 2780 2800 2800 2890	2990 3100 3040 2990 3100 3180 2910 3100 3080 2610 2650 2940 2910 2190 2610	2540 2990 2930 2780 2780 2780 2550 2490 2610 2480 2430 2650 2050 2060 2190 2810 2820 2050 2050 2050 2060 2190	2760 3040 3000 2900 2950 2940 2640 2970 2930 2550 2540 2800 2110 2400 2760 2890 2690
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	3740 2600 2720 1320 1380 1400 1380 3690 3770 3570 3450	JUNE 2410 1830 1300 1130 1140 1210 3510 3600 3040 3040	3390 2180 2250 1250 1250 1310 1300 3570 3690 3410 3310	3320 3390 3240 3200 3150 3270 3040 3020 3100 3220 2540	JULY 3100 3200 3120 3110 3040 2990 2850 2720 2740 2860 1640	3200 3250 3240 3190 3120 3080 3120 2950 2910 3050 2160	2600 2120 2560 2720 2760 2870 2930 2840 2180 2850 2870 2870 3020 2380	AUGUST 1750 1760 2120 2560 2610 2680 2820 2350 1650 2700 2720 2370 1940	2090 1930 2320 2680 2710 2670 1850 2780 2800 2890 2890 2120	2990 3100 3040 2990 3100 3180 2910 3100 2610 2650 2940 2910 2190 2610 2880 2950 2890 2770	2500 2500 2500 2500 2500 2500 2500 2500	2760 3040 3000 2900 2950 2940 2640 2970 2930 2550 2550 2540 2800 2320 2110 2400 2690 2690 2610
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	3740 2600 2720 1320 1380 1400 1380 3690 3770 3570 3450 3450 3550 3600	JUNE 2410 1830 1130 1130 1140 1180 1210 3510 3600 3040 3040 3040 3240 3480	3390 2180 2250 1250 1250 1310 3570 3690 3410 33190 3380 3540	3320 3300 3390 3240 3150 3270 3040 3020 3100 3220 2540 2700	JULY 31100 3200 3120 31110 3040 2990 2850 2720 2740 2860 1640 1510 1880	3200 3250 3240 3190 3120 3080 3120 2950 2900 2910 3050 2160 1620 2220	2600 2120 2560 2720 2760 2870 2930 2840 2180 2850 2870 3020 2870 3020 2380 2670	1750 1760 2120 2560 2610 2680 2820 2350 1650 2700 2720 2370 1940 2000 2250 2550	2090 1930 2320 2680 2710 2790 2870 2670 1850 2780 2890 2120 2460 2590	2990 3100 3040 2990 3100 3180 2910 3100 3080 2610 2950 2940 2910 2190 2610 2880 2950 2890 2700 2840	2540 2990 2780 2780 2780 2780 2490 2610 2480 2650 2050 2050 2050 2060 2190 2810 2820 2610 2480 2550 2050 2050 2050 2050 2050 2050 20	2760 3040 3000 2900 2950 2940 2640 2970 2930 2550 2400 2320 2110 2400 2320 2110 2400 2690 2690 2690 2690 2780 2990
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	3740 2600 2720 1320 1380 1400 1380 3690 3770 3570 3450 3450 3550 3600 3570	JUNE 2410 1830 1300 1130 1140 1180 1210 3510 3600 3040 3040 3040 3240 3480 3330	3390 2180 2250 1250 1250 1310 1310 3570 3690 3410 3310 3190 3380 3540 3460	3320 3300 3390 3240 3200 3150 3270 3040 3020 3100 3220 2540 1880 2700 3190	JULY 3100 3200 3120 3110 3040 2990 2850 2720 2740 2860 1640 1510 1880 2700	3200 3250 3240 3190 3120 3080 3120 2950 2910 3050 2160 1620 2220 2940	2600 2120 2560 2720 2760 2870 2930 2840 2180 2180 3020 2380 2670 2570 2670 2740	1750 1760 2120 2560 2610 2680 2350 1650 2700 2720 2370 1940 2000 22550	2090 1930 2320 2680 2710 2790 2670 1850 2780 2800 2800 2890 2120 2260 2460 2590 2620	2990 3100 3040 2990 3100 3180 2910 3100 2610 2650 2940 2910 2190 2610 2880 2950 2890 2700 2840	2540 2990 2780 2780 2780 2780 2610 2420 2610 2480 2650 2050 2060 2190 2610 2840 2500 2600 2190 2600 2500 2600 2500 2600 2500 2600 2500 2600 2500 2600 2790	2760 3040 3000 2900 2950 2940 2640 2970 2930 2550 2540 2800 2110 2400 2780 2690 2610 2780
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	3740 2600 2720 1320 1380 1400 1380 3690 3770 3570 3450 3450 3550 3600	JUNE 2410 1830 1130 1130 1140 1180 1210 3510 3600 3040 3040 3040 3240 3480	3390 2180 2250 1250 1250 1310 3570 3690 3410 33190 3380 3540	3320 3300 3390 3240 3150 3270 3040 3020 3100 3220 2540 2700	JULY 31100 3200 3120 31110 3040 2990 2850 2720 2740 2860 1640 1510 1880	3200 3250 3240 3190 3120 3080 3120 2950 2900 2910 3050 2160 1620 2220	2600 2120 2560 2720 2760 2870 2930 2840 2180 2850 2870 3020 2870 3020 2380 2670	1750 1760 2120 2560 2610 2680 2820 2350 1650 2700 2720 2370 1940 2000 2250 2550	2090 1930 2320 2680 2710 2790 2870 2670 1850 2780 2890 2120 2460 2590	2990 3100 3040 2990 3100 3180 2910 3100 3080 2610 2950 2940 2910 2190 2610 2880 2950 2890 2700 2840	2540 2990 2780 2780 2780 2780 2490 2610 2480 2650 2050 2050 2050 2060 2190 2810 2820 2610 2480 2550 2050 2050 2050 2050 2050 2050 20	2760 3040 3000 2900 2950 2940 2640 2970 2930 2550 2400 2320 2110 2400 2320 2110 2400 2690 2690 2690 2690 2780 2990
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	3740 2600 2720 1320 1380 1400 1380 3690 3770 3570 3450 3450 3550 3550 3520 3250	JUNE 2410 1830 1300 1130 1140 1180 1210 3510 3600 3040 3040 3040 3240 3330 3200 3070	3390 2180 2250 1250 1310 1300 3570 3690 3410 3310 3190 3380 3460 3430 3170	3320 3390 3240 3200 3150 3270 3040 3020 3100 3220 2540 1880 2700 3190 	JULY 3100 3200 3120 3110 3040 2990 2850 2720 2740 2860 1640 1510 1880 2700	3200 3250 3240 3190 3120 3080 3120 2950 2910 3050 2160 1620 2220 2940	2600 2120 2560 2720 2760 2870 2930 2840 2180 2850 2870 3020 2380 2670 2570 2670 2740 2880 2920	AUGUST 1750 1760 2120 2560 2610 2680 2820 2350 1650 2700 2720 2370 1940 2000 2250 2550 2740 2830	2090 1930 2320 2680 2710 2670 1850 2780 2800 2890 2120 2260 2460 2590 2620 2630 2890	2990 3100 3040 2990 3100 3180 2910 3100 2610 2650 2940 2910 2190 2610 2880 2950 2890 2700 2840 3030 3170 3170 3150 2900	25500 2690 2800 2800 2600 2600 2600 2600 2600 260	2760 3040 3000 2900 2950 2940 2640 2970 2930 2550 2550 2540 2800 2320 2110 2400 2760 2890 2690 2610 2780 2910 3090 2910 3090 2810
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	3740 2600 2720 1320 1380 1400 1380 3690 3770 3570 3450 3570 3450 3570 3520 3580 3290	JUNE 2410 1830 1300 1130 1140 1180 1210 3510 3600 3040 3040 3040 3240 3480 3330 3200 3070 3160 3140	3390 2180 2250 1250 1250 1310 1300 3570 3690 3410 3310 3190 3380 3460 3430 3470 3360 3190	3320 3390 3240 3200 3150 3270 3020 3100 3220 2540 2700 3190 2950 2830	JULY 3100 3200 3120 3110 3040 2990 2850 2720 2740 2860 1510 1880 2700 1510 2680 2610	3200 3250 3240 3190 3120 3080 3120 2950 2900 2910 3050 2160 1620 2220 2940 2810 2740	2600 2120 2560 2720 2760 2870 2930 2840 2180 2850 2870 3020 2380 2670 2570 2740 2880 2920 2880 2920	1750 1760 2120 2560 2610 2820 2350 1650 2700 2720 2370 1940 200 2550 2550 2740 2830 2830 2660 2830	2090 1930 2320 2680 2710 2790 2870 2670 1850 2780 2890 2120 2260 2460 2590 2620 2390 2760 2680	2990 3100 3040 2990 3100 3180 2910 3100 3080 2610 2650 2940 2910 2190 2610 2880 2950 2890 2700 3170 3170 3170 3150 2990 2730	2540 2990 2780 2780 2780 2610 2490 2610 2480 2650 2050 2060 2190 2610 2840 2500 2690 2690 2730	2760 3040 3040 29900 2950 29400 2640 2970 2930 2550 2550 2400 2800 2320 2110 2400 2690 2690 2690 2690 2780 2910 3090 3150 3070 2810 2920 2920 2920 2920 2920 2920 2920 29
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	3740 2600 2720 1320 1380 1400 1380 3690 3770 3570 3450 3450 3550 3520 3250 3280 3290 3360	JUNE 2410 1830 1300 1130 1140 1180 1210 3510 3600 3040 3040 3040 3240 3480 3330 3320 3370 3160 3170	3390 2180 2250 1250 1250 1310 1300 3570 3690 3410 3310 3190 3380 3460 3430 3170	3320 3390 3240 3200 3150 3270 3040 3020 3100 3220 2540 1880 2700 3190 2950 2830 2920	JULY 3100 3200 3110 3110 3040 2990 2850 2720 2740 2860 1640 1510 1880 2700 2660 2610 2790	3200 3250 3240 3190 3120 3080 3120 2950 2910 3050 2160 1620 2220 2940 2810 2740 2860	2600 2120 2560 2720 2760 2870 2930 2840 2180 2850 2870 3020 2380 2670 2570 2670 2740 2880 2920 2850 2730 2570	AUGUST 1750 1760 2120 2560 2610 2680 2820 2350 1650 2700 2720 2370 1940 2000 2550 2540 2830 2660 2830 2660 22440	2090 1930 2320 2680 2710 2670 1850 2780 2800 2890 2120 2260 2460 2590 2620 2830 2890 2760 2620 2620 2620 2620 2620 2630 2630 26	2990 3100 3040 2990 3100 3180 2910 3100 2610 2650 2940 2910 2190 2610 2880 2950 2890 2700 2840 3030 3170 3150 2900 2730 2890 2730	2500 2900 2930 2780 2780 2550 2490 2620 2610 2480 2650 2050 2050 2050 2050 2050 2050 205	2760 3040 3000 2900 2950 2940 2640 2970 2250 2550 2550 2640 2800 2320 2110 2400 2690 2690 2610 2780 2910 3070 2810 2690 2710
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	3740 2600 2720 1320 1380 1400 1380 3690 3770 3570 3450 3450 3550 3600 3570 3520 3520 3520 3290 3360 3300	JUNE 2410 1830 1130 1130 1140 1180 1210 3510 3600 3040 3040 3040 3240 3240 3240 3270 3160 3140 3170 2970	3390 2180 2250 1250 1250 1310 1310 1300 3570 3690 3410 3310 3310 3310 3430 3430 3430 3430	3320 3300 3390 3240 3200 3150 3270 3040 3020 3100 3220 2540 1880 2700 3190 2700 3190 2950 2830 2920 2940	JULY 3100 3200 3120 3110 3040 2990 2850 2720 2740 2860 1640 2700 2680 2610 2750	3200 3250 3240 3190 3120 3080 3120 2950 2900 2910 3050 2160 1620 2220 2940 2810 2740 2860 2860	2600 2120 2560 2720 2760 2870 2930 2840 2180 2850 2870 3020 2380 2670 2570 2740 2880 2920 2850 2730 2570 2930	AUGUST 1750 1760 2120 2560 2610 2680 2820 2350 1650 2700 2720 2370 1940 2000 2250 22510 2250 22740 2830 2660 2530 2640 2570	2090 1930 2320 2680 2710 2790 2670 1850 2780 2800 2890 2120 2260 2460 2590 2620 2830 2890 2760 2680 2590 2780	2990 3100 3040 2990 3100 3180 2910 3100 3080 2610 2950 2990 2700 2890 2890 2700 2840 3170 3170 3150 2900 2730 2890 2750	2500 2000 2000 2000 2000 2000 2000 2000	2760 3040 3000 2900 2950 2940 2940 2970 2930 2550 2800 2320 2110 2400 2760 2890 2610 3090 3150 3070 2810 2690 2750 2750 2750 2710
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	3740 2600 2720 1320 1380 1400 1380 3690 3770 3570 3450 3450 3550 3520 3250 3280 3290 3360	JUNE 2410 1830 1300 1130 1140 1180 1210 3510 3600 3040 3040 3040 3240 3480 3330 3320 3370 3160 3170	3390 2180 2250 1250 1250 1310 1300 3570 3690 3410 3310 3190 3380 3460 3430 3170	3320 3390 3240 3200 3150 3270 3040 3020 3100 3220 2540 1880 2700 3190 2950 2830 2920	JULY 3100 3200 3110 3110 3040 2990 2850 2720 2740 2860 1640 1510 1880 2700 2660 2610 2790	3200 3250 3240 3190 3120 3080 3120 2950 2910 3050 2160 1620 2220 2940 2810 2740 2860	2600 2120 2560 2720 2760 2870 2930 2840 2180 2850 2870 3020 2380 2670 2570 2670 2740 2880 2920 2850 2730 2570	AUGUST 1750 1760 2120 2560 2610 2680 2820 2350 1650 2700 2720 2370 1940 2000 2550 2540 2830 2660 2830 2660 22440	2090 1930 2320 2680 2710 2670 1850 2780 2800 2890 2120 2260 2460 2590 2620 2830 2890 2760 2620 2620 2620 2620 2620 2630 2630 26	2990 3100 3040 2990 3100 3180 2910 3100 2610 2650 2940 2910 2190 2610 2880 2950 2890 2700 2840 3030 3170 3150 2900 2730 2890 2730	2500 2900 2930 2780 2780 2550 2490 2620 2610 2480 2650 2050 2050 2050 2050 2050 2050 205	2760 3040 3000 2900 2950 2940 2640 2970 2250 2550 2550 2640 2800 2320 2110 2400 2690 2690 2610 2780 2910 3070 2810 2690 2710
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	3740 2600 2720 1320 1380 1400 1380 3690 3770 3570 3450 3570 3450 3570 3520 3580 3290 3360 3360 3360 3360 3320	JUNE 2410 1830 1300 1130 1140 1180 1210 3510 3600 3040 3040 3040 3240 3480 3330 3200 3070 3160 3170 2970	3390 2180 2250 1250 1250 1310 1300 3570 3690 3410 3310 3190 3380 3460 3430 3470 3190 3260 3160 3160 32880	3320 3390 3240 3200 3150 3270 3020 3100 3220 2540 1880 2700 3190 2950 2830 2920 2940 2780	JULY 3100 3200 3120 3110 3040 2990 2850 2720 2740 2860 1510 1880 2700 1510 2680 2790 2610 2790 2750	3200 3250 3240 3190 3120 3080 3120 2950 2900 2910 3050 2160 1620 2220 2940 2810 2740 2860 2860 28710	2600 2120 2560 2720 2760 2870 2930 2840 2180 2180 2850 2870 3020 2380 2670 2570 2740 2880 2920 2880 2920 2850 2930 3070	1750 1760 2120 2560 2610 2680 2820 2350 1650 2700 2720 2370 1940 2000 2550 2740 2830 2440 2830 2440 2930	2090 1930 2320 2680 2710 2790 2870 2670 1850 2780 2890 2120 2260 2460 2590 2620 2830 2890 2760 2680 2500 2780 2780 2680 2500 2780 3000	2990 3100 3040 2990 3100 3180 2910 3100 2650 2940 2910 2190 2610 2880 2950 2890 2700 2190 2730 2890 2730 2890 2750 2750 2750	2540 2990 2780 2780 2780 2610 2490 2610 2480 2650 2050 2060 2190 2610 2840 2500 2690 2690 2690 2690 2690 2690 2730	2760 3040 3000 2900 2950 2940 2940 2970 2930 2550 2800 2320 2110 2400 2760 2890 2610 3090 3150 3070 2810 2690 2750 2750 2750 2710

07124000 ARKANSAS RIVER AT LAS ANIMAS, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

				WATER (DEG								
DAY	MAX	MIN OCTOBER	MEAN	MAX	MIN OVEMBER	MEAN	MAX	MIN ECEMBER	MEAN	MAX	MIN JANUARY	MEAN
1	18.3	9.8	13.6	11.2	6.0	8.1	8.0	5.9	6.9	8.5	3.1	5.2
2 3	16.2 13.9	11.1 10.3	13.3 11.7	11.5 12.7	4.3	7.6 8.1	9.0 6.8	4.5	6.4 5.0	7.6 4.4	2.8	5.0
4 5	17.5 18.4	9.5 10.9	12.9 14.2	12.0 12.0	4.8 5.9	8.3	5.0 4.5	2.2	3.9 1.9	4.2	 .5	2.7
6	18.2	10.5	13.9	12.6	5.0	8.4	4.5	.5	2.2	7.1	2.6	4.2
7 8	16.3 18.2	9.5 11.7	12.4 14.5	12.9 13.7	5.1 6.4	8.7 9.7	5.0 4.2	.2 1.2	2.5	5.4 6.2	.7	2.5
9 10	19.9 19.8	10.4	14.7 15.1	13.4 13.2	7.3 5.9	10.0	5.3 5.9	.3	2.8	6.1 7.1	1.2	3.2
11	21.1	11.6	15.8	13.2	5.9	9.2	6.2	2.3	3.9	6.6	.7	3.5
12 13	21.3		15.9 15.2	12.8 13.0	5.7 5.4	9.0	5.7	.2	2.6 1.9	8.7 7.2	2.1 1.8	5.0 4.4
14 15	20.4 17.2	11.0 10.7	15.2 13.9	13.0 12.7	5.4	8.9 8.8	2.8	.3	1.5	4.9 6.7	1.2	3.1
16	13.0	8.4	10.1	12.6	5.0	8.5	5.7	.3	2.5	6.2	1.9	3.8
17 18	13.7 12.7	6.7	9.6	13.0 13.5	4.9 7.1	8.7 9.5	6.4 6.1	2.1	3.8	6.3 9.0	1.7	4.1 5.9
19 20	14.8 15.6	8.1 6.8	10.9 10.7	11.2 11.5	4.1	7.4 7.2	5.8 4.0	2.3	3.8	9.7 8.1	3.7	6.3 5.2
21	16.6	7.5	11.5	10.9	4.2	7.2	3.5	.4	1.6	6.6	2.2	4.4
22 23	16.5	7.7 8.1	11.6	7.8 8.0	3.9	6.3 5.1	3.8 5.6	.5	1.8	6.9 7.6	2.0	4.4
24 25	16.2 16.2	7.5 7.7	11.3	8.7 6.8	3.9 1.7	5.6 4.3	6.9 6.8	.7 1.1	3.5	7.3 4.6	.9 1.8	3.8
26	15.9	7.3	11.2	9.7	3.1	6.1	7.0	1.6	4.1	5.9	.9	3.0
27 28	13.2 14.1		10.3	10.8	5.1	7.6 7.1	7.3 8.3	1.1	4.1	4.3 4.0	.3	2.3
29 30	11.3	7.5 5.2	9.4	7.6 10.8	5.6 5.7	6.3 7.8	6.9 7.1	1.9	4.2	5.1 4.0	.3	2.1
31	13.0	5.2	8.9				6.3	.9 .7	3.6	4.6	.2	1.8
MONTH	21.3	5.2	12.2	13.7	1.7	7.9	9.0			9.7		
DAY	MAX	MIN	MEAN									
		FEBRUARY			MARCH			APRIL			MAY	
1 2	5.2 8.3	.3	2.2	13.5 9.6	6.4 5.3	9.5 7.0	12.9 15.2	4.1	7.7 8.5	17.4 24.6	10.0	12.9 16.1
3 4	9.7 8.9	2.9 3.2	6.0 5.8	12.9 15.1	4.8 6.1	8.3 10.3	14.9 18.9	4.8	8.9 11.0	26.6 28.4	12.1 13.6	18.7
5	6.8	2.9	4.6	14.8	7.1	10.2	20.6	8.5	14.0	29.2	15.5	21.5
6 7	7.2 7.7	3.8 4.2	5.4 5.8	14.8 14.0	5.8 9.6	10.0 11.4	21.0 15.2	9.9 8.9	14.7 12.1	28.9 26.0	16.1 15.8	21.8
, 8 9	8.5 8.7	3.6 5.8	6.0 7.1	14.0 13.9	8.1 6.0	10.7	19.6 22.3	5.7 8.0	11.9	20.0 26.4	13.5	16.2 17.9
10	8.3	4.4	6.3	8.2	5.2	6.9	18.7	10.0	13.9	27.2	12.8	19.6
11 12	5.6 4.7	2.5 2.2	3.4 3.2	13.1 13.4	3.1 5.2	7.6 8.8	18.2 21.1	10.0	13.4 14.5	26.6 23.3	13.6 11.6	19.4 16.6
13 14	6.5 7.6	2.3	4.0	14.9 15.2	5.5	9.7 10.0	22.9	10.0	15.8 16.1	22.7 24.2	10.3	15.7 17.2
15	10.6	4.7	7.4	14.5	4.8	9.4	14.7	8.5	10.8	25.9	12.8	18.8
16 17	9.5 8.6	5.8 5.7	7.5 7.0	14.8 15.7	3.2 3.1	8.0 8.7	19.7 18.3	5.6 9.9	12.0 13.5	23.0 17.4	14.5 10.2	18.4 13.9
18 19	9.5 8.7	4.7 3.7	6.7	11.2 16.6	5.5	8.4 9.2	22.6	9.5 8.5	15.0 12.9	16.0 24.7	7.7	11.1 15.5
20	6.5	3.2	5.0	11.8	6.1	8.3	22.5	6.8	13.8	23.5	12.2	17.7
21 22	9.3 10.3	3.3 5.6	6.2 7.7	7.0 7.3	5.4 5.4	6.2 6.3	22.7 22.9	8.8 10.8	15.4 16.1	29.3 29.4	12.9 14.9	20.4 21.8
23 24	12.9 11.2	6.7	9.4 9.1	16.4 18.4	6.3 7.1	10.2 12.0	20.4	12.4	15.2 16.5	30.2 23.6	16.5 16.4	22.8
25	10.0	4.7	7.5	20.6	8.9	13.6	22.1	9.4	15.4	21.3	14.4	17.8
26 27	11.5 11.6	4.7	7.7 7.8	20.1 21.4	9.1 7.3	13.8 13.6	22.6 25.4	10.5 11.3	16.1 17.5	28.0 28.7	14.6 14.3	19.9 20.8
28 29	11.3	5.4	8.3 9.2	16.3 19.3	7.7 7.5	11.5 11.9	24.1 25.5	10.7	16.7 17.9	30.3 29.4	14.3 17.9	21.5
30 31				9.6 6.7	7.0 4.6	7.9 5.8	15.2	11.1	12.2	27.7 26.6	16.0 16.2	21.1 19.4
MONTH	13.2	.2	6.2	21.4	3.0	9.5	25.5	3.8	13.8	30.3	7.7	18.6
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07124000 ARKANSAS RIVER AT LAS ANIMAS, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1 2 3 4 5	24.5 25.7 27.5 23.8 24.5	15.4 15.8 16.1 20.2 18.9	18.8 20.0 21.6 21.9 21.2	32.1 32.3 31.6 31.7 32.7	17.5 18.4 18.2 18.1 17.2	24.1 24.1 23.9 23.9 24.0	29.0 30.6 29.9 32.1 31.8	18.8 20.7 20.7 20.3 20.0	23.9 25.1 24.5 25.5 25.0	30.6 28.5 27.8 30.9 30.3	19.0 17.0 17.8 16.6 17.8	23.2 21.9 22.3 22.7 23.1
6 7 8 9 10	25.4 26.2 	20.4 19.6 	22.6 22.7 	32.7 31.1 32.6 33.5 34.0	18.5 17.0 17.0 18.0 19.8	24.0 23.1 23.8 25.2 25.3	32.2 32.5 31.2 29.3 29.9	19.7 18.5 19.0 21.0 20.8	24.5 24.6 24.5 24.3 24.8	30.4 27.7 28.6 29.2 29.1	16.1 17.7 16.3 16.9 17.2	22.5 21.8 21.0 21.8 22.6
11 12 13 14 15	27.4 28.8 29.4	13.2 14.7	20.0 21.0	32.5 29.2 31.4 34.1	19.0 19.3 18.4 19.4	24.9 22.9 25.7	29.9 30.2 31.9 33.4 32.4	21.0 22.6 21.4 21.4 21.5	25.0 25.7 26.1 26.5 25.7	29.0 26.6 27.7 25.4 28.2	17.6 16.2 15.6 16.9 15.7	22.1 20.6 20.9 20.7 20.8
16 17 18 19 20	25.8 21.0 28.8 28.8 28.5	15.2 14.2 13.2 16.5 15.8	19.4 16.5 20.0 21.7 21.1	29.4 29.3 30.3 31.2 29.1	19.5 19.3 18.6 19.2 21.1	23.8 22.4 23.9 24.6 24.6	28.9 29.2 24.3 30.3 30.9	19.0 18.6 18.1 18.5 19.6	22.9 22.9 20.9 23.6 24.4	27.3 26.8 25.7 25.9 22.4	15.7 15.8 16.2 15.6 14.3	20.7 20.7 20.2 19.9 17.3
21 22 23 24 25	29.1 30.3 29.2 30.3 32.0	13.9 17.0 16.8 16.6 17.2	20.9 22.0 21.5 22.4 23.0	29.1 29.6 31.6 29.7 31.2	21.5 19.2 18.4 18.1 17.9	24.6 23.6 24.3 22.6 23.9	29.3 29.3 30.7 31.7 31.9	19.5 19.2 18.0 18.2 18.6	23.2 23.4 23.6 24.1 24.3	24.6 23.1 14.0 17.1 21.5	12.5 14.0 10.7 9.8 8.3	17.5 17.4 12.3 12.3 14.0
26 27 28 29 30 31	27.6 23.5 26.2 30.9 30.1	16.5 16.3 16.9 16.0 17.3	21.0 19.4 20.4 22.3 23.0	31.2 31.9 30.2 30.8 29.7 31.3	19.1 19.5 19.5 19.0 18.9	24.4 24.9 24.4 24.5 23.7 24.1	31.3 31.0 31.0 29.6 28.5 30.0	18.8 19.0 19.7 18.6 18.9	23.7 24.2 24.7 23.6 23.0 22.6	21.7 23.5 24.0 21.5 24.6	10.5 10.9 11.5 13.6 13.6	15.4 16.4 17.1 17.4 18.5
MONTH							33.4	17.4	24.2	30.9	8.3	19.5

07124200 PURGATOIRE RIVER AT MADRID, CO

LOCATION (REVISED).--Lat $37^{\circ}07'46"$, long $104^{\circ}38'22"$, in $SW^{1}/_{4}NE^{1}/_{4}$ 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 400 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		DISCHAR	GE, CUBIC	FEET PE		MEAN VA	AR OCTOBER LUES	1999 10	PEPIEMBE	SK 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	42	29	e26	e26	21	51	111	103	43	23	23
2	50	39	29	e25	e27	24	49	93	122	36	21	20
3	49	39	e29	e24	e27	23	66	90	133	38	21	19
4	49	39	e29	e23	e26	22	64	95	115	40	23	18
5	47	38	e28	e22	e26	23	140	114	102	35	24	18
6 7	45 45	38 36	e28 e27	e21 e21	26 24	22 29	144 116	133 127	99 95	35 40	27 26	17 16
8	47	36	e27	e21	23	28	95	129	87	41	24	20
9	45	36	e27	e22	28	24	86	147	85	35	19	18
10	44	34	e26	e23	24	23	83	122	76	35	18	20
11	43	34	e26	e26	23	22	92	124	75	37	19	16
12	41	33	e26	e28	22	22	83	132	68	36	28	16
13	38	32	e25	e29	23	22	81	123	60	30	32	14
14	37	32	e26	e30	23	22	81	114	53	45	25	13
15	39	32	e27	e31	23	22	84	103	49	43	29	13
16	40	32	e28	e31	21	27	80	89	42	52	32	13
17	47	32	e28	e31	23	26	73	86	46	52	28	13
18	46	31	e28	e30	22	29	70	83	58	44	44	14
19 20	58 55	28 32	e27 e26	30 28	22 25	23 30	72 70	89 94	60 55	40 38	38 32	13 13
21	53	31	e26	28	27	28	67	79	50	31	30	15
22	52	32	e25	28	23	30	68	63	45	28	37	14
23	48	32	e26	26	23	36	69	58	46	32	37	16
24	45	31	e26	e24	23	44	70	73	55	28	35	16
25	42	27	e28	e22	21	48	69	98	53	26	31	16
26	40	40	e30	e22	19	44	70	105	52	26	38	15
27	40	35	e31	e22	23	40	74	92	74	29	32	15
28	39 41	32	e31	e23	25 23	41 44	86 97	82 90	88 103	43 36	29 27	14 13
29 30	43	31 30	e30 e29	e23 e24		47	119	90	59	32	28	13
31	43		e27	e25		57		98		26	24	
TOTAL	1402	1016	855	789	691	943	2469	3128	2208	1132	881	474
MEAN	45.2	33.9	27.6	25.5	23.8	30 4	82.3	101	73.6	36.5	28.4	15.8
MAX	58	42	31	31	28	57	144	147	133	52	44	23
MIN	37	27	25	21	19	21	49	58	42	26	18	13
AC-FT	2780	2020	1700	1560	1370	1870	4900	6200	4380	2250	1750	940
STATIST	CICS OF MC	NTHLY MEA	N DATA FO	OR WATER	YEARS 1972	- 2000,	BY WATER	YEAR (WY)				
MEAN	31.0	25.5	21.5	19.1	19.7	21.0	48.0	148	202	129	115	55.8
MAX	78.5	39.2	40.3	36.6	37.2	55.9	204	547	589	313	342	232
(WY)	1983	1999	1984	1984	1983	1987	1987	1999	1983	1983	1981	1981
MIN	9.89	12.7	8.47	7.60	5.80	9.72	12.4	26.6	34.8	18.6	18.9	11.0
(WY)	1973	1977	1977	1973	1977	1979	1981	1981	1972	1972	1972	1978
SUMMARY	STATISTI	CS	FOR 1	.999 CALE	NDAR YEAR	F	OR 2000 WAT	TER YEAR		WATER YEA	RS 1972	- 2000
ANNUAL	moma r			47934			15988					
ANNUAL				131			43.7			71.5		
	'ANNUAL M	TEAN		131			13.7			145		1983
	ANNUAL ME									21.6		1974
HIGHEST	DAILY ME	AN		1260	May 3		147	May 9		1640	Sep	7 1981
LOWEST	DAILY MEA	AN		14	Feb 23		13	Sep 14		3.0 3.0		23 1977
	SEVEN-DAY			15	Mar 5		13	Sep 14		3.0		23 1977
	ANEOUS PE						707	Jun 29		a14300		20 1976
	ANEOUS PE			95080				Jun 29		b12.80	Jul 2	20 1976
	RUNOFF (A			95080 368			31710 90			51820 180		
	ENT EXCEE			40			32			30		
	ENT EXCEE			17			21			13		
		-										

e Estimated.

a From rating curve extended above 300 $\mathrm{ft^3/s}$, on basis of timed-drift measurement, and slope-area measurements of peak flow. b From floodmarks.

07124400 TRINIDAD LAKE NEAR TRINIDAD, CO

LOCATION (REVISED).--Lat $37^{\circ}08^{\circ}28^{\circ}$, long $104^{\circ}33^{\circ}05^{\circ}$, in $NE^{1}/_{4}SW^{1}/_{4}$ 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. 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, 1999 after a resurvey by the Corp of Engineers. Total capacity, 180,000 acre-ft, at elevation 6,284 ft top of parapet. Elevation of high crest of spillway, 6,258 ft, with capacity of 119,100 acre-ft. Elevation of notch crest in spillway is 6,243 ft, capacity, 91,340 acre-ft. Permanent pool is 4,112 acre-ft at elevation 6,144.75 ft. Elevation of outlet invert is 6,095 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.

EXTREMES (AT 2400) FOR PERIOD OF RECORD.--Maximum contents, 72,700 acre-ft, Aug. 7, 12, 1999 elevation, 6,230.29 ft; no contents prior to Aug. 19, 1977.

EXTREMES (AT 2400) FOR CURRENT YEAR.--Maximum contents, 71,000 acre-ft, maximum elevation, 6,229.97 ft, Mar. 31,; minimum contents, 29,100 acre-ft,; minimum elevation, 6,192.32 ft., Sept. 30.

Capacity table (elevation, in feet, and contents, in acre-feet, effective Nov. 1, 1999)

6,150.0	5,656	6,180.0	19,900	6,210.0	45,760	
6,155.0	7,324	6,185.0	23,430	6,215.0	51,470	
6,160.0	9,224	6,190.0	27,240	6,220.0	57,580	
6,165.0	11,450	6,195.0	31,390	6,225.0	64,110	
6,170.0	13,910	6,200.0	35,800	6,230.0	71,020	
6,175.0	16,700	6,205.0	40,610	6,235.0	78,420	

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63100	62600	64500	66200	67700	68900	70900	70400	64500	e54200	44900	34700
2	63100	62700	64600	66300	67700	69000	70800	70300	64400	53900	44600	34400
3	63000	62800	64700	66300	67800	69100	70800	70100	64200	53600	44200	34100
4	62900	62900	64700	66300	67800	69100	70800	70100	64000	53200	43900	33800
5	62800	63000	64800	66400	67900	69200	70900	70100	63900	52900	43500	33500
6 7 8 9 10	62700 62600 62500 62500 62400	63000 63100 63100 63200 63300	64800 64900 64900 65000	66500 66500 66500 66600 66600	67900 68000 68000 68100 68100	69200 69300 69300 69300 69400	70900 70700 70600 70600 70600	70200 70200 70300 70200 69900	63700 63500 63100 62800 62500	52500 52300 52100 51800 51600	43200 42800 42500 42100 41700	33300 33100 32800 32600 32400
11	62300	63300	65100	66700	68200	69400	70800	69700	62200	51400	41400	32200
12	62200	63400	65100	66700	68200	69500	70700	69500	61900	51200	41000	32000
13	62100	63500	65200	66800	68300	69500	70600	69300	61600	50900	40700	31800
14	61900	63500	65300	66800	68300	69500	70500	69100	61200	50600	40300	31600
15	61900	63600	65300	66900	68300	69700	70400	68800	60700	50300	40000	31400
16	61900	63600	65300	67000	68400	69700	70400	68600	60200	50100	39700	31300
17	61900	63700	65400	67000	68400	69800	70400	68300	59700	49900	39400	31100
18	61900	63700	65500	67100	68500	69800	70400	68000	59400	49600	39100	31000
19	62000	63800	65500	67100	68500	69900	70400	67800	59000	49300	38800	30900
20	62000	63800	65600	67200	68600	70000	70400	67600	58500	49000	38500	30700
21 22 23 24 25	62100 62100 62200 62200 62300	63900 63900 64000 64100	65600 65700 65700 65800 65800	67200 67300 67300 67300 67400	68600 68700 68700 68700 68800	70000 70100 70200 70300 70400	70400 70400 70400 70400 70400	67300 67000 66700 66400 66200	58000 57600 57100 56600 56100	48700 48300 48000 47600 47300	38200 37900 37600 37200 36900	30600 30400 30200 30000 29800
26	62300	64200	65900	67500	68800	70500	70300	66000	55700	46900	36500	29600
27	62400	64300	66000	67500	68900	70600	70300	65700	55300	46600	36200	29500
28	62400	64300	66000	e67500	68900	70700	70300	65500	55000	46300	35900	29400
29	62500	64400	66100	e67600		70700	70300	65200	54800	46000	35600	29300
30	62500	64400	66100	e67600		70700	70500	64900	54600	45600	35300	29100
31	62600		66200	67600	68900	71000		64700		45300	35000	
MIN	61900	62600	64500	66200	67700	68900	70300	64700	54600	45300	35000	29100

CAL YR 1999 MAX 72700 MIN 19600 WTR YR 2000 MAX 71000 MIN 29100

e Estimated.

07124410 PURGATOIRE RIVER BELOW TRINIDAD LAKE, CO

LOCATION (REVISED).--Lat $37^{\circ}08'38"$, long $104^{\circ}32'50"$, in NE $^{1}/_{4}SW^{1}/_{4}$ 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.--No estimated daily discharges. Records good except for 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

	DISCHA	RGE, CUBI	C FEET PEI		MEAN VA	LUES	1999 10	SEPTEMBE	.R 2000		
DAY OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 70 2 69 3 69 4 69 5 69	.51 .47 .44 .44	.38 .38 .38 .38	2.2 2.4 2.1 2.1 1.8	2.2 2.0 1.8 1.3	.33 .33 .33 .33	103 103 86 85 159	139 173 174 118 87	208 206 206 206 206	206 206 206 207 208	188 190 192 192 190	160 164 165 165 119
6 70 7 70 8 70 9 70 10 52	. 44 . 44 . 44 . 44 . 44	.38 .38 .38 .38	1.7 1.7 1.7 1.7	.51 .51 .51 .47	.33 .33 .33 .33	233 250 198 102 68	87 87 124 201 241	206 206 240 258 235	181 159 145 146 167	190 190 190 188 188	108 127 138 113 102
11 43 12 57 13 77 14 83 15 54	.40 .38 .38 .38	.38 .36 .33 .33	1.7 1.7 1.7 1.7	. 44 . 44 . 44 . 44	.33 .33 .33 .31 .28	65 110 145 145 145	225 215 215 215 214	207 206 206 242 275	151 153 162 185 192	188 187 186 185 185	97 94 96 95 94
16 25 17 25 18 25 19 24 20 23	15 7.9 .58 .58 .52	.33 .33 .31 .27 .27	1.6 1.6 1.6 1.5	.44 .44 .44 .39	.27 .27 .27 .27 .58	93 68 68 66 67	188 211 209 209 209	282 268 259 259 260	192 190 189 189 189	185 180 171 166 165	94 93 61 15 91
21 23 22 7.8 23 .78 24 .73 25 .68	.51 .51 .51 .51	.27 .27 .27 .27 .27	1.5 1.4 1.4 1.4	.37 .38 .37 .35					187 187 187 189 190	165 168 187 192 191	92 92 91 91
26 .68 27 .58 28 .51 29 .51 30 .54 31 .51	.51 .51 .51 .45 .38	.27 .27 .27 1.3 1.7	3.0 4.5 4.0 3.8 3.4 2.8	.33 .33 .33 .33	.94 .95 .93 .16 .44	78 82 90 94 95	209 209 209 209 209 209	284 284 232 205 205		191 190 179 160 158 159	90 72 66 69 69
TOTAL 1150.32 MEAN 37.1 MAX 83 MIN .51 AC-FT 2280	35.91 1.20 15 .38 71	13.80 .45 1.7 .27 27	64.0 2.06 4.5 1.4 127	17.72 .61 2.2 .33 35	78.32 2.53 64 .16 155	3183 106 250 65 6310	5840 188 241 87 11580	7264 242 284 205 14410	5695 184 208 145 11300	5636 182 192 158 11180	3014 100 165 15 5980
STATISTICS OF	MONTHLY ME	AN DATA F		YEARS 1977	- 2000,		YEAR (WY				
MEAN 23.9 MAX 96.0 (WY) 1984 MIN .35 (WY) 1989	5.84 25.9 1984 .015 1982	2.51 11.9 1979 .001 1995	2.78 14.7 1977 .012 1985	3.05 13.1 1977 .056 1984	3.13 17.8 1977 .007 1982	32.9 106 2000 .073 1984	168 375 1994 25.5 1980	206 614 1983 51.5 1977	178 306 1983 40.5 1977	154 310 1999 36.1 1977	117 283 1984 5.15 1987
SUMMARY STATIS	TICS	FOR	1999 CALEI	NDAR YEAR	F	OR 2000 WA	TER YEAR		WATER Y	EARS 1977	- 2000
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL LOWEST ANNUAL HIGHEST DAILY LOWEST DAILY ANNUAL SEVEN-D INSTANTANEOUS INSTANTANEOUS ANNUAL RUNOFF 10 PERCENT EXC 90 PERCENT EXC	MEAN MEAN EAN AY MINIMUM PEAK FLOW PEAK STAGE (AC-FT) EEDS		.00	Aug 3 0 May 11 0 May 11		31992.07 87.4 284 .16 .27 289 6.37 63460 209 69	Jun 22 Mar 29 Dec 19 Jun 21 Jun 21		77.4 146 42.8 917 a.0 .0 b963 7.8 56070 245 12	Sep 1 0 Aug 2 0 Nov 1 Sep 1 9 Sep 1	1983 1978 11 1981 20 1977 10 1981 10 1981

a No flow at times most years

b From rating curve extended above 920 ft³/s.

arkansas river basin 325

07126140 VAN BREMER ARROYO NEAR TYRONE, CO

LOCATION.--Lat $37^{\circ}23^{\circ}58^{\circ}$, long $104^{\circ}06^{\circ}55^{\circ}$, in $SW^{1}/_{4}SW^{1}/_{4}$, sec.27, T.30 S., R. 60 W., Las Animas County, Hydrologic Unit 11020010, on left bank, on Pinon Canyon Army Maneuver Site, 200 ft downstream from military road at gas line crossing nearBrown 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 September 1998, October 1998 to current year (seasonal records only). Water-quality data available, May 1985 to April 1998.

GAGE.--Water-stage recorder with satellite telemetry, crest-stage gages, and artificial control. Elevation of gage is 5,310 ft above sea level, from topographic map.

REMARKS.--Records good except for discharges 0.08 to 0.30 ${\rm ft}^3/{\rm s}$, which are fair, discharges greater than 50 ${\rm ft}^3/{\rm s}$ or less than 0.08 ${\rm ft}^3/{\rm s}$, and estimated daily discharges, which are poor. Natural flow of stream affected by return flow from irrigation and storage in a small channel reservoir 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 511 ft³/s, Aug. 23, 1986, from flow through culvert computation, gage height, 10.02 ft; maximum gage height, 11.64 ft, Aug. 3, 1998; no flow many days most years (some estimated).

EXTREMES FOR CURRENT YEAr (seasonal only).--Maximum discharge, 11 ft³/s at 1115 Oct. 12, gage height, 5.19 ft; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY MEAN VALUES DAY OCT MOM DEC TAN FEB MAR APR MAY TITIN JUL ATTG SEP 7.5 . 02 . 00 .00 . 00 2.1 6.8 .02 .00 .00 .00 2.1 5.0 ---___ ___ .02 .00 .00 .00 2.8 5.8 6.7 .01 .00 .00 .00 3.5 5 ___ ___ ___ ---___ ___ .01 .00 .00 .00 4.6 6 7 7.8 00 0.0 00 00 ---------------___ 6.9 .00 .00 .00 .00 5.8 8 7.6 .02 .00 .00 .00 ---------8.0 ------.01 .00 .00 .00 4.4 10 8.2 --e.01 .01 .00 4.2 .00 .00 11 8.7 .01 .00 .00 .00 .00 2.7 ------___ ___ 12 9.7 ---2.0 .01 .00 .00 .00 .00 ------------1.5 13 8.6 ---.02 .00 ___ 14 .02 .01 .00 .00 .00 1.2 15 4.5 .01 .01 .00 .00 .00 1.0 2.6 ------.01 .00 .00 .30 .00 1.3 16 ---___ ___ .88 17 5.1 .01 .00 .02 .00 18 4.2 .01 .00 .00 .00 .36 19 e2 9 ___ ___ ___ ___ ___ 01 0.0 0.0 00 00 10 20 .01 .01 .00 .00 .00 .01 21 .01 .01 .00 .00 .04 .00 22 23 ------------.02 .00 .00 .00 .00 .00 ------24 ---___ ___ ___ ---___ 03 0.0 0.0 0.0 45 0.0 25 .02 .00 .00 .00 .26 .00 26 .03 .00 .00 . 67 1.2 .00 27 28 ------------.01 .00 .00 .00 1.2 1.8 ___ ___ ------.02 .00 1.6 .00 .00 2.9 29 30 ---.02 1.9 .00 .00 4.3 4.7 .00 .00 .00 31 .00 .00 2.7 0.17 TOTAL 0.00 0.32 11.12 65.85 ------___ ---___ ------.36 2.7 MEAN .005 .000 .010 2.19 .00 5.8 .02 MTN ___ ---___ ---___ ___ ___ .00 . 00 .00 .00 0.0 131

e Estimated

07126140 VAN BREMER ARROYO NEAR TYRONE, CO--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--June 1993 to current year (seasonal records only).

 ${\tt GAGE.--Tipping-bucket}$ rain gage with satellite telemetry.

REMARKS.--Records good. Records published for period of seasonal operation only (Oct. 1-19, and Apr. 10 to Sept. 30). Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 3.00 inches, Sept. 9, 1995.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 1.72 inches, July 16.

		PRECI	PITATION,	TOTAL,		WATER YEAR ILY SUM VAI		1999 TO	SEPTEMBER	2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00							.00	.00	.02	.00	.00
2	.00							.00	.00	.00	.00	.00
3	.00							.00	.00	.00	.00	.00
4	.00							.00	.00	.00	.00	.00
5	.00							.00	.00	.00	.00	.00
6	.00							.00	.00	.00	.05	.00
7	.09							.00	.00	.00	.00	.00
8	.00							.71	.00	.00	.00	.00
9	.00							.00	.00	.00	.00	.00
10	.00						e.00	.00	.00	.02	.00	.00
11	.00						.22	.00	.00	.00	.00	.00
12	.00						.00	.00	.00	.00	.01	.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	.05						.00	.00	.00	1.72	.00	.00
17	.16						.00	.00	.00	.16	.02	.00
18	.11						.00	.00	.00	.01	.04	.00
19	e.36						.00	.00	.00	.00	.00	.00
20							.00	.17	.00	.00	.00	.02
21							.00	.00	.00	.00	1.10	.01
22							.00	.00	.00	.14	.00	.03
23							.00	.00	.01	.00	.00	.26
24							.00	.03	.00	.00	.00	.02
25							.00	.00	.00	.00	.00	.00
26							.00	.00	.29	.15	.27	.00
27							.00	.00	.53	.00	.00	.00
28							.00	.00	.00	.05	.00	.00
29							.01	.00	.27	.00	.00	.00
30							.18	.00	.00	.00	.00	.00
31								.00		.00	.00	
TOTAL								0.91	1.10	2.27	1.49	0.34
MAX								.71	.53	1.72	1.10	.26

e Estimated.

07126200 VAN BREMER ARROYO NEAR MODEL, CO

LOCATION (REVISED).--Lat $37^{\circ}20^{\circ}44^{\circ}$, long $103^{\circ}57^{\circ}27^{\circ}$, in $SE^{1}/_{4}NE^{1}/_{4}$ 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 mi^2 , of which 11.8 mi^2 is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1966 to current year. Water-quality data available, January 1983 to April 1998.

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 poor. Natural flow of stream affected by small in-channel reservoirs upstream and irrigation return flow.

3												
		DISCHARO	GE, CUBIC		SECOND, W		AR OCTOBER LUES	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3.1 4.3 3.8 2.9 2.9	.30 .29 .30 .30	. 27 . 26 . 25 . 30 . 27	.20 .17 .16 .14	.18 .17 .17 .17	.19 .19 .19 .17	.30 .25 .20		.06 .06 .07 .06	.09 .08 .08 .07	.07 .07 .08 .07 .06	.06 .06 .07 .06
6 7 8 9 10		.27	.26 .26 .23 .22	.17 .15 .16 .16	.17 .17 .17 .17 .16	.14 .17 .43 .18	.18 .17 .16 .16	.10 .10 .18 .23	.08 .07 .07 .06 .06	.07 .05 .15 .07	.07 .07 .07 .06 .06	.06 1.2 2.4 2.0 1.5
11 12 13 14 15	5.1 5.9 6.2 5.6 4.8			.16 .17 .16 .15			.21 .18 .15 .14			.06 .07 .07 .06 .06	.06 .07 .06 .06	1.6 1.2 .65 .37
16 17 18 19 20	2.9 2.1 2.5 3.3 1.9	. 25 . 26 . 26 . 24 . 25	.20 .21 .21 .21 .20	.17 .17 .17 .17 .15	.13 .12 .12 .13 .14	.41 .22 .21 .18 .16	.14 .13 .12 .10	.10 .09 .09 .09	.06 .06 .08 .07	6.1 .68 .13 .08	.06 .06 .10 .10	.18 .13 .11 .10
21 22 23 24 25	1.8 1.3 .94 .70						.12 .12 .13 .14			.07	15 11 1.2 .33 .13	.12
26 27 28 29 30 31	.44 .38 .34 .35	. 27 . 27 . 27 . 25 . 25	.20 .19 .20 .20 .20	.16 .19 .20 .18 .17	.12 .13 .14 .27	.16 .15 .16 .17 .20	.11 .11 .11 .11 .29	.11 .08 .07 .07 .07	.07 .11 .13 .12 .11	.06 .06 .07 .08 .08	.10 .10 .09 .07 .06	.12 .12 .12 .12 .12
TOTAL MEAN MAX MIN AC-FT	87.45 2.82 6.2 .32 173	8.02 .27 .30 .24 16	6.68 .22 .30 .18	5.11 .16 .20 .14 10	4.53 .16 .27 .12 9.0	6.38 .21 .56 .14 13	5.19 .17 .47 .10	3.40 .11 .23 .07 6.7	2.08 .069 .13 .04 4.1	8.96 .29 6.1 .05 18		13.33 .44 2.4 .06 26
						- 2000,	BY WATER Y					
MEAN MAX (WY) MIN (WY)	1.23 16.0 1986 .059 1992	.19 .74 1998 .067	.17 .32 1998 .031 1984	.18 .43 1973 .064 1984	.21 .59 1987 .11 1992	.18 .40 1973 .072 1979	.19 .74 1973 .075 1979	2.88 30.1 1981 .072 1992	1.97 20.6 1969 .030 1968	4.18 36.4 1977 .039 1978	8.35 104 1981 .11 1991	1.88 9.90 1972 .041 1991
SUMMARY	Y STATISTI	CS.	FOR 1	999 CALEN	DAR YEAR	F	OR 2000 WAT	TER YEAR		WATER Y	EARS 1966	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERO 50 PERO		CAN CAN CAN CAN CAK FLOW CAK STAGE CC-FT) CDS		762.36 2.09 283 .10 .10 1510 3.7 .15 .10	Aug 3 Jun 5 Jun 16		180.66 .49 15 .04 .05 177 3.20 358 .59 .16	Aug 21 Jun 14 Jun 9 Aug 21 Aug 21		1.8 12.3 .1: 802 .00 a6240 b9.4(1310	May : Jun Jun May : May : May : May :	1981 1991 30 1981 7 1968 7 1968 26 1967 26 1967

a From rating curve extended above 65 $\rm ft^3/s$ on basis of slope-area measurement of peak flow. b 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 April 1998. May 1999 to current year.

PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: January 1983 to April 1998. WATER TEMPERATURE: January 1983 to April 1998. SUSPENDED SEDIMENT: May 1999 to current year (seasonal peaks only).

INSTRUMENTATION. -- Pumping sediment sampler since May 1999.

REMARKS.--Records fair except for estimated days, which are poor.

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 most years.
SEDIMENT CONCENTRATIONS (seasonal peaks only): Maximum daily mean, 1,720 mg/L, Aug. 5, 1999; minimum daily mean, 132 mg/L,

June 12, 1999.

SEDIMENT LOAD (seasonal peaks only): Maximum daily, 4,000 tons (estimated), Aug. 3, 1999; minimum daily, 0.04 ton, (estimated), Aug. 15, 1999, July 18 and Aug. 25, 2000.

EXTREMES FOR CURRENT YEAR.-SEDIMENT CONCENTRATION (seasonal peaks only): Maximum daily mean, 1,070 mg/L, Aug. 21; minimum daily mean, 379 mg/L, July 17.
SEDIMENT LOAD (seasonal peaks only): Maximum daily, 201 tons, Aug. 21; minimum daily, 0.04 ton (estimated), July 18, Aug. 25.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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 T	IME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 20 JAN 26 APR 13	1430 1600 1855	1.7 .17	2150 2100 2190	12.1 7.6 19.5	AUG 17 19	235 510 550	.06 .07 .06	2000 1780 1630	24.4 25.4 25.8

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
OCT 20 JUN	1430 1235	1.7	12.1	18	.08
23 AUG 17 31	1510 1550	.06 .07 .06	24.4 25.4 25.8	15 23 13	.00

07126200 VAN BREMER ARROYO NEAR MODEL, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		MEAN			MEAN			MEAN	
DAY	MEAN DISCHARGE (CFS)	CONCEN- TRATION	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	CONCEN- TRATION	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	CONCEN- TRATION	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER		:	NOVEMBER		DE	ECEMBER	
1	3.1			.30			.27		
2	4.3 3.8			.29			.26 .25		
4	2.9			.30			.30		
5	2.9			.30			.27		
6	4.0			.27			.26		
7	4.8			.27			.26		
8 9	4.3 4.7			.27 .27			.23		
10	4.9			.27			.21		
11	5.1			.27			.22		
12	5.9			.27			.19		
13	6.2			.27			.20		
14 15	5.6 4.8			.25 .25			.22 .19		
16 17	2.9 2.1			.25			.20 .21		
18	2.5			.26			.21		
19	3.3			.24			.21		
20	1.9			.25			.20		
21	1.8			.25			.18		
22	1.3			. 25			.19		
23 24	.94 .70			.27			.18 .18		
25	.54			.26			.19		
26	.44			.27			.20		
27	.38			.27			.19		
28	.34			.27			.20		
29 30	.34			. 25 . 25			.20 .20		
31	.32						.19		
TOTAL	87.45		Ō	8.02		0	6.68		0
DAY	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)
DAY	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE
	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE
1	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19	CONCEN- TRATION (MG/L)	DISCHARGE
1 2 3 4	DISCHARGE (CFS) .20 .17 .16 .14	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3	DISCHARGE (CFS) .20 .17 .16	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4	DISCHARGE (CFS) .20 .17 .16 .14 .16	CONCENTRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5	DISCHARGE (CFS) .20 .17 .16 .14 .16 .17 .15	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17 .17 .17 .17	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19 .19 .19 .17 .16 .14	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8	DISCHARGE (CFS) .20 .17 .16 .14 .16 .17 .15	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17 .17 .17 .17	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19 .19 .17 .16 .14 .17	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5	DISCHARGE (CFS) .20 .17 .16 .14 .16 .17 .15	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17 .17 .17 .17	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19 .19 .19 .17 .16 .14	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9	.20 .17 .16 .14 .16 .17 .15 .16	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17 .17 .17 .17 .17 .17 .17	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19 .19 .19 .17 .16 .14 .17 .43 .18 .14	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8	.20 .17 .16 .14 .16 .17 .15 .16	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17 .17 .17 .17	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19 .19 .19 .17 .16 .14 .17 .43 .18	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS) .20 .17 .16 .14 .16 .17 .15 .16 .16 .16 .17 .15 .16 .16 .16 .16 .17 .15	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17 .17 .17 .17 .17 .17 .17 .17	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19 .19 .19 .17 .16 .14 .17 .43 .18 .14 .14	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14	DISCHARGE (CFS) .20 .17 .16 .14 .16 .17 .15 .16 .16 .16 .16 .17 .15 .16 .16 .16 .17 .15 .16 .17 .18 .19 .19 .19 .19 .19 .19 .19 .19 .19 .19	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17 .17 .17 .17 .17 .17 .17 .17	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19 .19 .19 .17 .16 .14 .17 .43 .18 .14 .14 .14 .14 .14 .14	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	.20 .17 .16 .14 .16 .17 .15 .16 .16 .16 .17	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17 .17 .17 .17 .17 .17 .17 .16 .17 .17 .16	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19 .19 .19 .17 .16 .14 .17 .43 .18 .14 .14 .14 .14 .14	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS) .20 .17 .16 .14 .16 .17 .15 .16 .16 .16 .17 .17 .17	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17 .17 .17 .17 .17 .17 .16 .17 .17 .16 .17 .17 .18 .19 .19 .19 .19 .19 .19 .19 .19 .19 .19	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19 .19 .19 .17 .16 .14 .17 .43 .18 .14 .14 .14 .14 .27	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	.20 .17 .16 .14 .16 .17 .15 .16 .16 .16 .17	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17 .17 .17 .17 .17 .17 .17 .16 .17 .17 .16	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19 .19 .19 .17 .16 .14 .17 .43 .18 .14 .14 .14 .14 .14	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	DISCHARGE (CFS) .20 .17 .16 .14 .16 .17 .15 .16 .16 .16 .17 .17 .17 .17 .17 .17	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17 .17 .17 .17 .19 .10 .11 .17 .11 .15 .13 .12 .12 .13	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19 .19 .19 .17 .16 .14 .17 .43 .18 .14 .14 .14 .14 .27 .41 .22 .21 .18	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS) .20 .17 .16 .14 .16 .17 .15 .16 .16 .16 .17 .17 .17 .17	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17 .17 .17 .17 .17 .16 .17 .16 .17 .17 .15 .11 .17 .15 .11 .17 .15 .11 .17 .15 .11 .17 .15 .11 .17 .15 .11 .17 .15 .11 .17 .15 .11 .17 .15 .11 .11 .12 .12 .12	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19 .19 .19 .17 .16 .14 .17 .43 .18 .14 .14 .14 .14 .17 .41 .14 .19 .19 .19 .19 .19 .19 .19 .19 .19 .19	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	DISCHARGE (CFS) .20 .17 .16 .14 .14 .15 .16 .16 .16 .17 .17 .17 .17 .17 .17 .17 .17 .15 .16	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17 .17 .17 .17 .19 .10 .11 .11 .12 .13 .12 .13 .14	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19 .19 .19 .17 .16 .14 .17 .43 .18 .14 .14 .14 .14 .27 .41 .22 .21 .18 .16	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DISCHARGE (CFS) .20 .17 .16 .16 .17 .15 .16 .16 .16 .17 .17 .17 .17 .17 .17 .17 .17 .17 .17	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17 .17 .17 .17 .17 .17 .18 .19 .19 .19 .19 .19 .19 .10 .10 .10 .10 .10 .10 .10 .10 .10 .10	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19 .19 .19 .17 .16 .14 .17 .43 .18 .14 .14 .14 .14 .14 .11 .12 .27 .41 .22 .21 .18 .16 .17 .25	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	DISCHARGE (CFS) .20 .17 .16 .14 .14 .15 .16 .16 .16 .17 .17 .17 .17 .17 .17 .17 .17 .15 .16	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17 .17 .17 .17 .19 .10 .11 .11 .12 .13 .12 .13 .14	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19 .19 .19 .17 .16 .14 .17 .43 .18 .14 .14 .14 .14 .27 .41 .22 .21 .18 .16	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	DISCHARGE (CFS) .20 .17 .16 .14 .16 .17 .15 .16 .16 .17 .17 .17 .17 .17 .17 .17 .17 .17 .15	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17 .17 .17 .17 .16 .17 .17 .16 .11 .17 .15 .13 .12 .13 .14 .14 .14 .14	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19 .19 .19 .17 .16 .14 .17 .43 .18 .14 .14 .14 .14 .14 .15 .16 .11 .22 .21 .18 .16 .17 .25 .23	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	DISCHARGE (CFS) .20 .17 .16 .14 .14 .15 .16 .16 .16 .17 .17 .17 .17 .17 .17 .17 .17 .15 .16 .16 .16 .10 .17 .17 .17 .17 .17 .17 .17 .17 .17 .17	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17 .17 .17 .17 .16 .17 .17 .16 .11 .17 .15 .13 .12 .13 .14 .14 .14 .14 .16 .14	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19 .19 .19 .17 .16 .14 .17 .43 .18 .14 .14 .14 .14 .27 .41 .22 .21 .18 .16 .17 .25 .23 .19	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS) .20 .17 .16 .14 .16 .17 .15 .16 .16 .17 .17 .17 .17 .17 .17 .17 .17 .17 .17	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17 .17 .17 .17 .16 .17 .17 .15 .13 .12 .12 .13 .14 .14 .14 .16 .14 .12 .12 .13	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19 .19 .19 .17 .16 .14 .17 .43 .18 .14 .14 .14 .14 .14 .15 .16 .17 .25 .23 .19 .17 .16 .15	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
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 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	DISCHARGE (CFS) .20 .17 .16 .14 .16 .17 .15 .16 .16 .17 .17 .17 .17 .17 .17 .17 .17 .17 .17	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17 .17 .17 .17 .16 .17 .17 .15 .13 .12 .12 .13 .14 .14 .14 .14 .14 .14 .12 .13 .11	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19 .19 .19 .17 .16 .14 .17 .43 .18 .14 .14 .14 .14 .12 .27 .41 .22 .21 .18 .16 .17 .25 .23 .19 .17	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS) .20 .17 .16 .14 .16 .17 .15 .16 .16 .17 .17 .17 .17 .17 .17 .17 .17 .17 .17	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17 .17 .17 .17 .16 .17 .17 .15 .13 .12 .12 .13 .14 .14 .14 .16 .14 .12 .12 .13	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19 .19 .19 .17 .16 .14 .17 .43 .18 .14 .14 .14 .14 .14 .15 .16 .17 .25 .23 .19 .17 .16 .15	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS) .20 .17 .16 .16 .17 .15 .16 .16 .17 .17 .17 .17 .17 .17 .17 .17 .17 .17	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17 .17 .17 .17 .17 .16 .17 .17 .15 .13 .12 .12 .13 .14 .14 .16 .14 .16 .14 .12 .12 .13 .14 .16 .14 .16 .14 .12 .12 .13 .14 .16	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19 .19 .19 .17 .16 .14 .17 .43 .18 .14 .14 .14 .14 .15 .16 .17 .25 .23 .19 .17 .16 .15 .16 .17 .17	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
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 20 21 21 21 21 21 21 21 21 21 21 21 21 21	DISCHARGE (CFS) .20 .17 .16 .16 .11 .15 .16 .16 .16 .17 .17 .17 .17 .17 .17 .17 .17 .17 .17	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .18 .17 .17 .17 .17 .17 .17 .16 .17 .17 .15 .13 .12 .13 .14 .14 .14 .16 .14 .12 .12 .13 .14 .14 .16 .14 .17 .17 .17 .17 .18 .19 .19 .19 .19 .19 .19 .19 .19 .19 .19	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .19 .19 .19 .17 .16 .14 .17 .43 .18 .14 .14 .14 .14 .14 .15 .16 .17 .25 .23 .19 .17 .16 .15 .16 .17 .25 .23	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)

07126200 VAN BREMER ARROYO NEAR MODEL, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	. 47			.23			.06		
2	.36			.16			.06		
3	.30			.14			.07		
4	. 25			.13			.06		
5	.20			.11			.06		
6 7	.18 .17			.10 .10			.08		
8 9	.16			.18			.07		
10	.16 .15			.23			.06 .06		
	.13						.00		
11	.21			.09			.07		
12	.18			.09			.06		
13 14	.15 .14			.09			.05 .04		
15	.13			.10			.04		
10	.13						.01		
16	.14			.10			.06		
17	.13			.09			.06		
18 19	.12 .10			.09			.08 .07		
20	.11			.11			.06		
20	•==						.00		
21	.12			.11			.06		
22	.12			.10			.06		
23 24	.13 .14			.09			.06 .06		
25	.14			.09			.06		
26	.11			.11			.07		
27	.11			.08			.11		
28 29	.11 .11			.07			.13		
30	.29			.07			.11		
31				.07					
			_			_			_
TOTAL	5.19		0	3.40		0	2.08		0
	MEAN	MEAN	CEDIMENT	MEAN	MEAN	CEDTMENT	MEAN	MEAN	CEDIMENT
DAY	MEAN DISCHARGE (CFS)	CONCEN- TRATION	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	CONCEN-	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	CONCEN- TRATION	SEDIMENT DISCHARGE (TONS/DAY)
DAY	DISCHARGE	CONCEN- TRATION	DISCHARGE	DISCHARGE	CONCEN- TRATION	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION	DISCHARGE
	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE
1	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JULY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE (CFS) S .06	CONCEN- TRATION (MG/L)	DISCHARGE
1 2	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JULY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S	CONCENTRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
1 2 3	DISCHARGE (CFS) .09 .08 .08	CONCENTRATION (MG/L) JULY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08	CONCENTRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06	CONCENTRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
1 2 3 4 5	.09 .08 .08 .07	CONCENTRATION (MG/L) JULY	DISCHARGE (TONS/DAY)	.07 .07 .08 .07	CONCENTRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .07 .06	CONCENTRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
1 2 3 4 5	.09 .08 .08 .07 .07	CONCEN- TRATION (MG/L) JULY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .07 .06 .06	CONCENTRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
1 2 3 4 5	.09 .08 .08 .07	CONCEN- TRATION (MG/L) JULY	DISCHARGE (TONS/DAY)	.07 .07 .08 .07	CONCENTRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .07 .06	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9	.09 .08 .08 .07 .07 .07	CONCEN- TRATION (MG/L) JULY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06 .07	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .07 .06 .06 .12 2.4 2.0	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
1 2 3 4 5	.09 .08 .08 .07 .07	CONCEN- TRATION (MG/L) JULY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06 .07	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .07 .06 .06 .106	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9	.09 .08 .08 .07 .07 .07	CONCEN- TRATION (MG/L) JULY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06 .07 .06 .07	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .07 .06 .06 .12 2.4 2.0 1.5	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9	.09 .08 .08 .07 .07 .07	CONCEN- TRATION (MG/L) JULY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06 .07	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .07 .06 .06 .12 2.4 2.0	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	.09 .08 .08 .07 .07 .07 .05 .15 .07 .06	CONCEN- TRATION (MG/L) JULY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06 .07 .06 .06 .06 .06	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .07 .06 .06 .1.2 2.4 2.0 1.5 1.6 1.2 .655	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14	.09 .08 .08 .07 .07 .07 .05 .15 .07 .06	CONCEN- TRATION (MG/L) JULY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06 .07 .07 .06 .06 .06 .06	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .07 .06 .06 .12 2.4 2.0 1.5 1.6 1.2 .655 .37	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	.09 .08 .08 .07 .07 .07 .05 .15 .07 .06	CONCEN- TRATION (MG/L) JULY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06 .07 .06 .06 .06 .06	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .07 .06 .06 .1.2 2.4 2.0 1.5 1.6 1.2 .655	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14	.09 .08 .08 .07 .07 .07 .05 .15 .07 .06	CONCEN- TRATION (MG/L) JULY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06 .07 .07 .06 .06 .06 .06	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .07 .06 .06 .12 2.4 2.0 1.5 1.6 1.2 .655 .37	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	.09 .08 .08 .07 .07 .07 .05 .15 .07 .06	CONCEN- TRATION (MG/L) JULY	DISCHARGE (TONS/DAY)	07 .07 .08 .07 .06 .07 .07 .06 .06 .06	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .06 .06 .12 2.4 2.0 1.5 1.6 1.2 .65 .37 .25	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	.09 .08 .08 .07 .07 .07 .05 .15 .07 .06 .06	CONCEN- TRATION (MG/L) JULY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06 .07 .07 .06 .06 .06 .06 .05 .06 .06 .06 .05	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .06 .06 .12 2.4 2.0 1.5 1.6 1.2 .65 .37 .25 .18 .13 .11	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	09 .08 .09 .08 .08 .07 .07 .07 .05 .15 .07 .06 .06 .07 .07 .06 .06 .06 .07 .07 .08 .08 .08 .09 .00 .00 .00 .00 .00 .00 .00 .00 .00	CONCEN- TRATION (MG/L) JULY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06 .07 .07 .06 .06 .06 .06 .06 .05 .06 .06 .06 .05	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .07 .06 .06 .1.2 2.4 2.0 1.5 1.6 1.2 .65 .37 .25 .18 .13 .11 .10	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	.09 .08 .08 .07 .07 .07 .05 .15 .07 .06 .06	CONCEN- TRATION (MG/L) JULY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06 .07 .07 .06 .06 .06 .06 .05 .06 .06 .06 .05	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .06 .06 .12 2.4 2.0 1.5 1.6 1.2 .65 .37 .25 .18 .13 .11	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	09 .08 .09 .08 .08 .07 .07 .07 .05 .15 .07 .06 .06 .07 .07 .06 .06 .06 .07 .07 .08 .08 .08 .09 .00 .00 .00 .00 .00 .00 .00 .00 .00	CONCEN- TRATION (MG/L) JULY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06 .07 .07 .06 .06 .06 .06 .06 .05 .06 .06 .06 .05	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .07 .06 .06 .1.2 2.4 2.0 1.5 1.6 1.2 .65 .37 .25 .18 .13 .11 .10	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	09 .09 .08 .07 .07 .07 .05 .15 .07 .06 .06 .07 .07 .06 .06 .06 .08 .08 .08 .08	CONCEN- TRATION (MG/L) JULY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06 .07 .06 .06 .06 .06 .06 .05 .06 .06 .06 .10 .10 .10 .09	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .06 .06 .12 2.4 2.0 1.5 1.6 1.2 .65 .37 .25 .18 .13 .11 .10 .10	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	DISCHARGE (CFS) .09 .08 .08 .07 .07 .07 .05 .15 .07 .06 .06 .07 .07 .08 .08 .08 .08 .08 .08 .08 .08	CONCEN- TRATION (MG/L) JULY 475 379	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06 .07 .07 .06 .06 .06 .06 .07 .06 .06 .07 .09 .09	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .06 .06 .12 2.4 2.0 1.5 1.6 1.2 .65 .37 .25 .18 .13 .11 .10 .10 .10	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	DISCHARGE (CFS) .09 .08 .08 .07 .07 .05 .15 .07 .06 .06 .07 .07 .08 .08 .08 .08 .08 .08 .08 .08	CONCEN- TRATION (MG/L) JULY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06 .07 .07 .06 .06 .06 .06 .06 .06 .10 .10 .09	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .06 .06 .06 .12 2.4 2.0 1.5 1.6 1.2 .655 .37 .25 .18 .13 .11 .10 .10 .10 .10 .11	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	DISCHARGE (CFS) .09 .08 .08 .07 .07 .07 .05 .15 .07 .06 .06 .07 .07 .08 .08 .08 .08 .08 .08 .08 .08	CONCEN- TRATION (MG/L) JULY 475 379	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06 .07 .07 .06 .06 .06 .06 .07 .06 .06 .07 .09 .09	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .06 .06 .12 2.4 2.0 1.5 1.6 1.2 .65 .37 .25 .18 .13 .11 .10 .10 .10	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS) .09 .08 .08 .07 .07 .05 .15 .07 .06 .06 .07 .07 .08 .08 .08 .08 .08 .08 .08 .08	CONCEN- TRATION (MG/L) JULY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06 .07 .07 .06 .06 .06 .06 .06 .06 .10 .10 .09	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .06 .06 .06 .12 2.4 2.0 1.5 1.6 1.2 .655 .37 .25 .18 .13 .11 .10 .10 .10 .10 .11	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS) .09 .08 .08 .07 .07 .07 .05 .15 .07 .06 .06 .07 .07 .06 .06 .06 .06 .07 .07 .07 .07 .08 .08 .08 .08 .08 .08 .08 .08	CONCEN- TRATION (MG/L) JULY 475 379	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06 .07 .07 .06 .06 .06 .06 .07 .07 .08 .09 .10 .10 .10 .10 .10 .10 .10 .10 .10 .10	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .06 .06 .06 .1.2 2.4 2.0 1.5 .1.6 1.2 .65 .37 .25 .18 .13 .11 .10 .10 .10 .11 .14 .12 .12 .12	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
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 28 28 28 28 28 28 28 28 28 28	DISCHARGE (CFS) .09 .08 .08 .07 .07 .07 .05 .15 .07 .06 .06 .07 .07 .08 .08 .08 .08 .09 .07 .07 .07 .06 .06 .06 .07 .07 .07 .06 .06 .07 .07 .07 .07 .07 .07 .07 .07 .07 .07	CONCEN- TRATION (MG/L) JULY 475 379	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06 .07 .07 .06 .06 .06 .06 .06 .05 .06 .06 .10 .10 .10 .10 .10 .09	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .06 .06 .06 .12 2.4 2.0 1.5 1.6 1.2 .65 .37 .25 .18 .13 .11 .10 .10 .10 .10 .10 .11 .14 .12 .12 .12 .12	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
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 21 21 22 23 24 25 26 27 27 27 27 27 27 27 27 27 27 27 27 27	DISCHARGE (CFS) .09 .08 .08 .07 .07 .07 .05 .15 .07 .06 .06 .07 .07 .06 .08 .08 .08 .08 .08 .08 .08 .08 .08 .08	CONCEN- TRATION (MG/L) JULY 475 379	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06 .07 .07 .06 .06 .06 .06 .06 .06 .10 .10 .10 .10 .10 .10 .10 .09 .15	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .06 .06 .06 .12 2.4 2.0 1.5 1.6 1.2 .65 .37 .25 .18 .11 .10 .10 .11 .10 .11 .14 .12 .12 .12 .12 .12 .12	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS) .09 .08 .08 .07 .07 .07 .05 .15 .07 .06 .06 .07 .07 .06 .06 .06 .07 .07 .07 .07 .08 .08 .08 .08 .08 .08 .08 .08 .08 .08	CONCEN- TRATION (MG/L) JULY 475 379	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06 .06 .06 .06 .06 .05 .06 .06 .10 .10 .10 .09 .15 .11 .1.2 .33 .13 .10 .10 .09 .07 .06	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .06 .06 .06 .12 2.4 2.0 1.5 1.6 1.2 .65 .37 .25 .18 .13 .11 .10 .10 .10 .10 .10 .11 .14 .12 .12 .12 .12	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)
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 21 21 22 23 24 25 26 27 27 27 27 27 27 27 27 27 27 27 27 27	DISCHARGE (CFS) .09 .08 .08 .07 .07 .07 .05 .15 .07 .06 .06 .07 .07 .06 .08 .13 .08 .08 .08 .08 .08 .09 .07 .07 .07 .07 .07 .07 .07 .07 .07 .07	CONCEN- TRATION (MG/L) JULY 475 379	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .07 .07 .08 .07 .06 .07 .07 .06 .06 .06 .06 .06 .06 .10 .10 .10 .10 .10 .10 .10 .09 .15	CONCEN- TRATION (MG/L) AUGUST	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) S .06 .06 .06 .06 .06 .1.2 2.4 2.0 1.5 1.6 1.2 .55 .37 .25 .18 .13 .11 .10 .10 .10 .10 .11 .14 .12 .12 .12 .12 .12 .12 .12 .12	CONCEN- TRATION (MG/L) EPTEMBER	DISCHARGE (TONS/DAY)

e Estimated

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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.

REMARKS.--Records good. Records published for period of seasonal operation only (Oct. 1-20 and Apr. 13 to Sept. 30). Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 2.67 inches, May 25, 1996.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 1.85 inches, Aug. 21.

		PRECI	PITATION,	TOTAL,		WATER YEAR		1999 TO	SEPTEMBER	2000		
					DAL	ILY SUM VAL	UES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00							.00	.00	.00	.00	.00
2	.00							.00	.00	.00	.00	.00
3	.00							.00	.00	.01	.01	.00
4	.00							.00	.00	.00	.00	.00
5	.00							.00	.00	.00	.00	.00
6	.00							.00	.00	.03	.00	.00
7	.08							.00	.00	.00	.00	.00
8	.00							.59	.00	.67	.00	.03
9	.00							.00	.00	.01	.00	.00
10	.00							.00	.05	.00	.00	.00
11	.00							.00	.10	.04	.00	.00
12	.00							.00	.00	.00	.01	.00
13	.00						e.00	.00	.00	.00	.00	.00
14	.00						.00	.00	.00	.00	.00	.00
15	.00						.00	.00	.00	.00	.05	.00
16	.05						.00	.00	.00	1.56	.00	.00
17	.24						.00	.00	.00	.18	.17	.00
18	.16						.00	.00	.04	.00	.07	.00
19	.28						.00	.00	.00	.00	.02	.00
20	e.00						.00	.02	.00	.00	.00	.13
21							.00	.00	.00	.00	1.85	.00
22							.00	.00	.00	.00	.00	.00
23							.00	.00	.00	.00	.00	.19
24							.02	.02	.00	.00	.00	.03
25							.00	.09	.11	.00	.00	.00
26							.00	.00	.00	.01	.00	.00
27							.00	.00	.45	.00	.00	.00
28							.00	.00	.00	.18	.00	.00
29							.33	.00	.16	.00	.00	.00
30							.40	.00	.00	.00	.00	.00
31								.00		.00	.02	
TOTAL								0.72	0.91	2.69	2.20	0.38
MAX								.59	.45	1.56	1.85	.19

e Estimated.

07126300 PURGATOIRE RIVER NEAR THATCHER, CO

LOCATION (REVISED).--Lat $37^{\circ}21^{\circ}23^{\circ}$, long $103^{\circ}53^{\circ}59^{\circ}$, in $NW^{1}/_{4}SW^{1}/_{4}$ 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. Water-quality data available, December 1982 to April 1998.

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 2,000 ft³/s, which are poor. Natural flow of stream affected by 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. Several measurements 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.--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.

/00 IC /D	•											
		DISCHARG	E, CUBI	C FEET PER		VATER YE MEAN VA	EAR OCTOBER ALUES	1999 TO	SEPTEMBI	ER 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	45	40	40	37	31	104	106	12	41	16	17
2	44	41	40	39	33	36	187	112	15	36	16	18
3	40	40	40	e38	35	35	281	144	14	28	16	19
4	42	40	e40	e38	33	36	243	121	21	31	14	18
5	57	43	e39	e39	33	33	367	88	21	42	10	19
6	58	42	38	40	32	31	577	40	15	29	11	18
7	44	40	e37	40	32	29	431	32	30	27	13	16
8	42	40	e37	42	33	33	346	30	26	19	24	15
9	42	40	e37	47	32	33	264	32	20	21	17	19
10	42	39	e36	43	33	30	167	72	20	22	9.4	15
11	40	38	e35	38	34	29	126	82	16	35	6.4	13
12	39	39	e35	38	34	29	131	65	22	90	4.9	13
13	39	39	e34	35	33	29	164	33	28	50	4.3	12
14	43	37	e34	34	32	28	193	30	24	35	3.5	9.5
15	39	38	e32	34	31	28	184	30	21	29	6.9	8.0
16	36	39	e31	35	30	34	181	32	23	61	8.1	7.9
17	42	39	e32	35	29	43	132	25	17	50	19	7.8
18	44	49	e33	36	29	49	91	21	21	58	36	7.7
19	63	41	e34	36	29	54	91	21	28	52	28	7.7
20	86	38	e35	36	29	47	85	23	26	34	25	7.1
21	68	39	e36	35	29	42	82	25	19	26	555	5.8
22	57	38	e37	35	29	43	84	23	15	23	114	5.1
23	51	39	e37	34	30	51	91	20	15	25	27	5.3
24	46	42	38	33	30	61	93	18	11	25	17	6.7
25	52	43	41	32	29	60	91	14	9.1	22	13	9.2
26 27 28 29 30 31	49 47 46 45 46 47	41 42 42 41 40	42 45 45 45 43 e42	34 35 36 e32 31 32	27 27 26 29	54 47 42 41 41 51	76 60 39 41 64	17 19 17 13 12	10 11 105 67 47	17 31 24 17 15 16	13 13 23 26 20 16	12 13 12 11 16
TOTAL MEAN MAX MIN AC-FT	1479	1214	1170	1132	898	1230	5066	1329	729.1	1031	1125.5	363.8
	47.7	40.5	37.7	36.5	31.0	39.7	169	42.9	24.3	33.3	36.3	12.1
	86	49	45	47	37	61	577	144	105	90	555	19
	36	37	31	31	26	28	39	12	9.1	15	3.5	5.1
	2930	2410	2320	2250	1780	2440	10050	2640	1450	2040	2230	722
MEAN	34.4	32.6	29.2	28.4	30.2	37.7	89.9	138	98.1	88.8	143	59.2
MAX	84.0	66.4	44.3	43.2	53.3	143	467	592	764	547	910	302
(WY)	1986	1999	1987	1988	1987	1998	1983	1987	1983	1981	1981	1981
MIN	.73	3.71	12.1	10.6	11.5	5.97	1.38	6.22	6.69	8.80	9.10	.64
(WY)	1979	1979	1979	1978	1976	1977	1978	1991	1976	1989	1976	1978
ANNUAL ANNUAL HIGHEST LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 90 PERC	MEAN ANNUAL MANNUAL MANNUAL ME DAILY MEA SEVEN-DAY ANNEOUS PE CANEOUS P CA	IEAN L'AN L'AN L'AN L'N L'M L'M L'M L'M L'AK L'AK L'AK L'AK L'AK L'AK L'AK L'AK	FOR :	41384 113 4690 17 23 82090 216 40 28	May 1 Apr 12 Mar 27	F	70R 2000 WAY 16767. 4 45. 8 577 3. 5 6. 2 c3900 8. 82 33260 78 34 13	Apr 6 Aug 14 Aug 10 Aug 21 Aug 21		MATER N a67.8 181 12.3 10000 b.(d42400 22.6 49100 114 30 6.8	Jul 00 Jun 1 00 Jun 1 Jul 00 Jul	- 2000 1981 1976 3 1981 28 1976 28 1976 3 1981 3 1981
e Esti	mated											

Average discharge for 10 years (water years 1967-76), 37.9 ft³/s; 27460 acre-ft/yr, prior to completion of

b No flow at times during 1966, 1971-73, 1976, 1990.

c From rating curve extended above 1660 ft³/s on basis of slope-area measurement of peak flow.

d From rating curve extended above 2020 ft³/s on basis of two slope-area measurements of peak flow.

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07126300 PURGATOIRE RIVER NEAR THATCHER, CO--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--April 1999 to current year (seasonal records only).

GAGE.--Tipping-bucket rain gage with satellite telemetry.

REMARKS.--Records good. Records published for period of seasonal operation only (Oct. 1-19 and Apr. 12 to Sept. 30). Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 2.79 inches, Aug. 21, 2000.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitaion, 2.79 inches, Aug. 21.

		PRECI	PITATION,	TOTAL,		WATER YEAR		1999 TO	SEPTEMBER	2000		
					DAL	LLY SUM VAL	UES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00							.00	.00	.00	.00	.00
2	.00							.00	.00	.03	.00	.00
3	.00							.00	.00	.01	.00	.00
4	.00							.00	.00	.00	.00	.00
5	.00							.00	.00	.00	.00	.00
6	.00							.00	.00	.05	.00	.00
7	. 25							.00	.00	.00	.00	.00
8	.05							.54	.00	.38	.00	.02
9	.00							.00	.00	.00	.00	.00
10	.00							.00	.02	.00	.00	.00
11	.00							.00	.10	.03	.06	.00
12	.04						e.00	.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	.00	.00	.00	.00
16	.06						.00	.00	.00	1.57	.00	.00
17	.19						.00	.00	.00	.08	.82	.00
18	.20						.00	.00	.07	.00	.07	.00
19	e.22						.00	.00	.00	.00	.07	.01
20							.00	.00	.00	.00	.00	.08
21							.00	.00	.00	.00	2.79	.00
22							.00	.00	.00	.00	.01	.00
23							.00	.00	.02	.00	.00	.09
24							.07	.01	.00	.00	.00	.04
25							.00	.14	.63	.00	.00	.00
26							.00	.00	.01	.31	.00	.00
27							.00	.00	.38	.00	.00	.00
28							.00	.00	.00	.15	.00	.00
29							.21	.00	.02	.00	.00	.00
30							.67	.00	.00	.00	.00	.00
31								.00		.00	.00	
TOTAL								0.69	1.25	2.61	3.82	0.24
MAX								.54	.63	1.57	2.79	.09

e Estimated.

07126325 TAYLOR ARROYO BELOW ROCK CROSSING NEAR THATCHER, CO

LOCATION (REVISED).--Lat $37^{\circ}25^{\circ}27^{\circ}$, long $103^{\circ}55^{\circ}11^{\circ}$, 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 September 1998, October 1998 to current year (seasonal records only).

GAGE.--Water-stage recorder with satellite telemetry, concrete control, and crest-stage gages. Elevation of gage is 4,982 ft above sea level, from topographic map.

 ${\tt REMARKS.--Records\ fair\ except\ for\ estimated\ daily\ discharges\ and\ those\ above\ 40\ {\tt ft}^3/{\tt s},\ {\tt which\ are\ poor.}$

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,090 ft³/s, Sept. 30, 1998, gage height, 13.71 ft, from slope-area measurement of peak flow; no flow most days.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 471 ft^3/s at 1750 Aug. 21, gage height, 7.05 ft, from rating curve extended above 330 ft^3/s on basis of slope-area measurement of peak flow; no flow most days.

		DISCHARG	E, CUBIC	FEET PER		WATER YEA	AR OCTOBER LUES	1999 TO	SEPTEMBER	2000		
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
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
11 12 13 14 15	.00 .00 .00 .00	 	 	 	 	 	e.00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
16 17 18 19 20	.00 .00 .00 .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
21 22 23 24 25	 		 	 	 	 	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	53 5.8 .21 .04 .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	0.00 .000 .00 .00	59.05 1.90 53 .00 117	0.00 .000 .00 .00

e Estimated.

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.--SPECIFIC CONDUCTANCE: March 1983 to April 1998. WATER TEMPERATURE: March 1983 to April 1998. SUSPENDED-SEDIMENT DISCHARGE: March 1983 to October 1998. May 1999 to current year (seasonal records only).

INSTRUMENTATION. -- Pumping sediment sampler since Aug. 1983.

REMARKS.--Daily suspended-sediment records are poor. Daily mean suspended-sediment concentrations published for days of partial flow might not reflect concentrations during the flow event, including Aug. 21.

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, 12,700 tons (estimated), Sept. 30, 1998; minimum, 0.0 ton, many days; no flow most of the time.

EXTREMES FOR CURRENT YEAR.-SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 926 mg/L, Aug. 21; minimum daily mean, 319 mg/L, Aug. 23.
SEDIMENT LOAD (seasonal only): Maximum daily, 535 tons, Aug. 21; minimum daily, 0.01 ton (estimated), Aug. 24; no flow most of the time.

MEAN

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

	MEAN	CONCEN-	SEDIMENT	MEAN	CONCEN-	SEDIMENT	MEAN	CONCEN-	SEDIMENT
	DISCHARGE	TRATION	DISCHARGE	DISCHARGE	TRATION	DISCHARGE	DISCHARGE	TRATION	DISCHARGE
DAY	(CFS)	(MG/L)	(TONS/DAY)	(CFS)	(MG/L)	(TONS/DAY)	(CFS)	(MG/L)	(TONS/DAY)
		OCTOBER		,	NOVEMBER		DE	CEMBER	
		OCTOBER		1	NOVEMBER		DE	CEMBER	
1	.00								
2	.00								
3	.00								
4	.00								
5	.00								
6	.00								
7	.00								
8	.00								
9	.00								
10	.00								
11	.00								
12	.00								
13	.00								
14	.00								
15	.00								
16	.00								
17	.00								
18	.00								
19	.00								
20	e.00								
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
									ā
TOTAL	0.00		0	0		0	0		0

TOTAL

0.00

0

0.00

0

0.00

07126325 TAYLOR ARROYO BELOW ROCK CROSSING NEAR THATCHER, CO--Continued SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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		1	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									
	0		0				0		
TOTAL	0		0	0		0	0		0
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)
DAY	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE
	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE
1 2 3	DISCHARGE (CFS)	CONCENTRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00	CONCENTRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00	CONCENTRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00	CONCENTRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5	DISCHARGE (CFS)	CONCENTRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00	CONCENTRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00	CONCENTRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00	CONCENTRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	.00 .00 .00 .00 .00 .00 .00 .00 .00 .00	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
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 20 20 20 20 20 20 20 20 20 20 20 20 20	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)

07126325 TAYLOR ARROYO BELOW ROCK CROSSING NEAR THATCHER, CO--Continued SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L) JULY	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)
		0011			AUGUDI		51	SE LISHDISK	
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			.00			.00		
10	.00			.00			.00		
11	.00			.00		===	.00		
12	.00			.00			.00		
13	.00			.00			.00		
14	.00			.00			.00		
15	.00			.00			.00		
10				.00			.00		
16	.00			.00			.00		
17	.00			.00			.00		
18	.00			.00			.00		
19	.00			.00			.00		
20	.00			.00			.00		
21	.00			53	926	535	.00		
22	.00			5.8	618	12	.00		
23	.00			.21	319	.20	.00		
24	.00			.04		e.01	.00		
25	.00			.00			.00		
26	.00			.00			.00		
27	.00			.00			.00		
28	.00			.00			.00		
29	.00			.00			.00		
30 31	.00			.00			.00		
31	.00			.00					
TOTAL	0.00		0	59.05		547.21	0.00		0

e Estimated.

07126325 TAYLOR ARROYO BELOW ROCK CROSSING, NEAR THATCHER, CO--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--May 1999 to current year (seasonal records only).

 ${\tt GAGE.--Tipping-bucket}$ rain gage with satellite telemetry.

REMARKS.--Records good. Records published for period of seasonal operation only (Oct. 1-20 and Apr. 13 to Sept. 30). Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 3.23 inches, Aug. 21, 2000.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 3.23 inches, Aug. 21.

		PRECI	PITATION,	TOTAL,		WATER YEAR		1999 TO	SEPTEMBER	2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00							.00	.00	.00	.00	.00
2	.00							.00	.00	.00	.00	.00
3	.00							.00	.00	.00	.33	.00
4	.00							.00	.00	.00	.13	.13
5	.00							.00	.00	.00	.00	.00
6	.00							.00	.00	.00	.00	.00
7	.23							.00	.00	.00	.00	.00
8	.00							.62	.00	.00	.00	.00
9	.00							.01	.00	.00	.00	.00
10	.00							.00	.03	.00	.00	.00
11	.00							.00	.16	.03	.01	.00
12	.00							.00	.00	.00	.03	.00
13	.00						e.00	.00	.00	.00	.00	.00
14	.00						.00	.00	.00	.00	.00	.00
15	.00						.00	.00	.00	.00	.01	.00
16	.08						.00	.00	.00	.49	.00	.00
17	.26						.00	.00	.00	.09	.63	.00
18	.13						.00	.00	.01	.00	.03	.00
19	. 25						.00	.01	.00	.00	.02	.00
20	e.00						.00	.02	.02	.00	.06	.06
21							.00	.00	.00	.01	3.23	.03
22							.00	.00	.00	.00	.00	.01
23							.02	.00	.00	.00	.00	. 28
24							.01	.02	.00	.00	.00	.05
25							.00	.03	.01	.00	.00	.00
26							.00	.00	.14	.17	.00	.00
27							.00	.00	.32	.00	.00	.00
28							.00	.00	.01	.24	.00	.00
29							.40	.01	.06	.00	.00	.00
30							.35	.00	.01	.00	.00	.00
31								.00		.00	.00	
TOTAL	0.95						0.78	0.72	0.77	1.03	4.48	0.56
MAX	.26						.40	.62	.32	.49	3.23	.28

e Estimated.

07126390 LOCKWOOD CANYON CREEK NEAR THATCHER, CO

LOCATION.--Lat $37^{\circ}29^{\circ}34^{\circ}$, long $103^{\circ}49^{\circ}39^{\circ}$, in $SW^{1}/_{4}NE^{1}/_{4}$ sec.30, T.29 S., R.57 W., Las Animas County, Hydrologic Unit 11020010, on left bank, on Pinon Canyon Maneuver Site, 0.8 mi downstream from Sharp Ranch, 5.3 mi upstream from mouth, and 16 mi southeast of Thatcher.

DRAINAGE AREA.--49.2 mi^2 . (Area at sites used prior to May 14, 1999, 41.4 mi^2 .)

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1983 to September 1992, October 1992 to September 1998 (annual maximum only), May 1999 to current year (seasonal records only). Records prior to May 14, 1999 may not be equivalent because of difference in drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gages. April 1983 to April 1989, at site 0.4 mile upstream at different datum. October 1, 1992 to May 13, 1999, at site 0.2 mile upstream at different datum. Elevation of gage is 4,785 ft above sea level, from topographic map.

REMARKS.--Records for 1999 water year are poor. Records for 2000 water year are good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,110 ft³/s, May 22, 1987, from rating curve extended above 3.8 ft³/s on basis of slope-area measurements at gage heights 9.42 and 10.39 feet, gage height, 10.39 ft, site and datum then in use; no flow most days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

EXTREMES FOR 1999 WATER YEAR (seasonal only).--Maximum discharge during period May to September, 173 ft³/s at 2245 June 12, gage height, 8.68 feet, from rating curve extended above 0.09 ft³/s on basis of step-backwater method; no flow most days.

EXTREMES FOR CURRENT YEAR (seasonal only) .-- No flow during the year.

					DAILY	MEAN VAL	UES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									.00	.00	.00	.00
2									.00	.00	.00	.00
3									.00	.00	.00	.00
4									.00	.00	7.1	.00
5									.00	.00	6.1	.00
3									.00	.00	0.1	.00
6									.00	.00	.01	.00
7									.00	.00	.91	.00
8									.00	.00	2.3	.00
9									.00	.00	.01	.00
10									.00	.00	.00	.00
11									.00	.00	.00	.00
12									8.5	.00	.00	.00
13									17	.00	.00	.00
14								e.03	1.3	.00	.00	.00
15								e.03	.18	.00	.00	.00
16								e.03	.08	.00	.00	.00
17								e.03	.05	.00	.00	.00
18								e.03	.03	.00	.00	.00
19								.03	.00	.00	.00	.00
20								.06	.00	.00	.00	.00
21								.06	.00	.00	.00	.00
22								.05	.00	.00	.00	.00
23								.02	.00	.00	.00	.00
24								.01	.00			
25								.01	.00	.00	.00	.00
25								.09	.00	.00	.00	.00
26								.12	.00	.00	.00	.00
27								.06	.00	.00	.00	.00
28								.04	.00	.00	.00	.00
29								.02	.00	.00	.00	.00
30								.01	.00	.00	.00	.00
31								.00		.00	.00	
31								.00		.00	.00	
TOTAL									27.14	0.00	16.43	0.00
MEAN									.90	.000	.53	.000
MAX									17	.00	7.1	.00
MIN									.00	.00	.00	.00
AC-FT									54	.00	33	.00

e Estimated.

07126390 LOCKWOOD CANYON CREEK NEAR THATCHER, CO--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00							.00	.00	.00	.00	.00
2	.00							.00				
									.00	.00	.00	.00
3	.00							.00	.00	.00	.00	.00
4	.00							.00	.00	.00	.00	.00
5	.00							.00	.00	.00	.00	.00
6	.00							.00	.00	.00	.00	.00
7	.00							.00	.00	.00	.00	.00
8	.00							.00	.00	.00	.00	.00
9	.00							.00	.00	.00	.00	.00
10	.00							.00	.00	.00	.00	.00
1.1	0.0							0.0	0.0	0.0	0.0	0.0
11	.00							.00	.00	.00	.00	.00
12	.00							.00	.00	.00	.00	.00
13	.00							.00	.00	.00	.00	.00
14	.00						e.00	.00	.00	.00	.00	.00
15	.00						.00	.00	.00	.00	.00	.00
16	.00						.00	.00	.00	.00	.00	.00
17	.00						.00	.00	.00	.00	.00	.00
18	.00						.00	.00	.00	.00	.00	.00
19	e.00						.00	.00	.00	.00	.00	.00
20							.00	.00	.00	.00	.00	.00
21							.00	.00	.00	.00	.00	.00
22							.00	.00	.00	.00	.00	.00
23							.00	.00	.00	.00	.00	.00
24							.00	.00	.00	.00	.00	.00
25							.00	.00	.00	.00	.00	.00
26							.00	.00	.00	.00	.00	.00
27							.00	.00	.00	.00	.00	.00
28							.00	.00	.00	.00	.00	
												.00
29							.00	.00	.00	.00	.00	.00
30							.00	.00	.00	.00	.00	.00
31								.00		.00	.00	
TOTAL								0.00	0.00	0.00	0.00	0.00
MEAN								.000	.000	.000	.000	.000
MAX								.00	.00	.00	.00	.00
MIN								.00	.00	.00	.00	.00
AC-FT								.00	.00	.00	.00	.00
.10 11								.00	.00	.00	.00	.00

e Estimated

07126390 LOCKWOOD CANYON CREEK NEAR THATCHER, CO--Continued

WATER-OUALITY RECORDS

PERIOD OF RECORD. -- May 1989 to September 1992. May 1999 to current year.

PERIOD OF DAILY RECORD . --

SPECIFIC CONDUCTANCE: May 1989 to September 1992.
WATER TEMPERATURE: May 1989 to September 1992.
SUSPENDED SEDIMENT: May 1999 to current year (seasonal records only).

INSTRUMENTATION.--June 1989 to September 1992, water-quality monitor at site 0.4 mi upstream. Pumping sediment sampler with satellite telemetry, since May 1999.

REMARKS.--Records poor. Daily mean suspended-sediment concentrations published for days of partial flow might not reflect concentrations during the flow event, including June 12 and Aug. 7, 1999.

EXTREMES FOR PERIOD OF RECORD .--

TREMES FOR PERIOD OF RECORD.-SPECIFIC CONDUCTANCE: Maximum, 3,830 microsiemens, Dec. 6, 21, 1989; minimum, 129 microsiemens, June 4, 1992.
WATER TEMPERATURE: Maximum, 30.5°C, July 9-10, 1983; minimum, 0.0°C, many days.
SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 827 mg/L, June 13, 1999; minimum daily, 6 mg/L, Aug. 7, 1999.
SEDIMENT LOAD (seasonal only): Maximum daily, 66 tons, June 13, 1999; minimum daily, 0.0 ton, many days; no flow most days.

EXTREMES FOR 1999 WATER YEAR .--

EXEMENTS FOR 1999 WHIER IEAR.-SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 827 mg/L, June 13; minimum daily, 6 mg/L, Aug. 7.
SEDIMENT LOAD (seasonal only): Maximum daily, 66 tons, June 13; minimum daily, 0.0 ton, many days; no flow most days.

EXTREMES FOR CURRENT YEAR . --

REPUBLIFY CONCENTRATION (seasonal only): No flow for current year. SEDIMENT LOAD (seasonal only): No flow for current year.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

		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	TIME	PER	ANCE	WATER
		SECOND	(US/CM)	(DEG C)			SECOND	(US/CM)	(DEG C)
		(00061)	(00095)	(00010)			(00061)	(00095)	(00010)
MAY					AUG				
19	1425	.04	3170	24.8	06	1055	<.01	1950	24.5
26	1000	.09	2720	17 0					

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

		MEAN			MEAN		MEAN		
	MEAN	CONCEN-	SEDIMENT	MEAN	CONCEN-	SEDIMENT	MEAN	CONCEN-	SEDIMENT
	DISCHARGE	TRATION	DISCHARGE	DISCHARGE	TRATION	DISCHARGE	DISCHARGE	TRATION	DISCHARGE
DAY	(CFS)	(MG/L)	(TONS/DAY)	(CFS)	(MG/L)	(TONS/DAY)	(CFS)	(MG/L)	(TONS/DAY)
	(/	(,,	(,	(/	(/ -/	()	(/	(/ -/	(/
		OCTOBER			NOVEMBER		DI	ECEMBER	
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
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18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
TOTAL	. 0		0	0		0	0		0

07126390 LOCKWOOD CANYON CREEK NEAR THATCHER, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

	SEDIM								
		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)	(MG/L)	(TONS/DAY)	(CFS)		(TONS/DAY)
			,, ,			,			,,
		JANUARY			FEBRUARY			MARCH	
1									
2									
3 4									
5									
6									
7 8									
9									
10									
11									
12									
13									
14 15									
15									
16									
17									
18 19									
20									
0.1									
21 22									
23									
24									
25									
26									
27									
28 29									
30									
31									
moma r	0		0	0		0	0		0
TOTAL	0		0	0		0	0		0
	MEAN	MEAN	CEDIMENT	MEAN	MEAN	CEDIMENT	MEAN	MEAN	CEDIMENT
	MEAN DISCHARGE	CONCEN-	SEDIMENT DISCHARGE	MEAN DISCHARGE	CONCEN-	SEDIMENT DISCHARGE	MEAN DISCHARGE	CONCEN-	SEDIMENT DISCHARGE
DAY	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)			MEAN DISCHARGE (CFS)	CONCEN- TRATION	SEDIMENT DISCHARGE (TONS/DAY)
DAY	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE
DAY	DISCHARGE	CONCEN- TRATION	DISCHARGE	DISCHARGE	CONCEN- TRATION	DISCHARGE	DISCHARGE	CONCEN- TRATION	DISCHARGE
1	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2	DISCHARGE (CFS)	CONCENTRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00	CONCENTRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5	DISCHARGE (CFS)	CONCENTRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00	CONCENTRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4	DISCHARGE (CFS)	CONCENTRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00	CONCENTRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS)	CONCENTRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCENTRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCENTRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY) 31 66 .18 e.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE 97 827 36	DISCHARGE (TONS/DAY) 31 66 .18 e.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY) 31 66 .18 e.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE 97 827 36 97 97 97	DISCHARGE (TONS/DAY) 31 66 .18 e.00 e.00 e.00 e.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY) 31 66 .18 e.00 e.00 e.00 e.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE 97 827 36	DISCHARGE (TONS/DAY) 31 66 .18 e.00 e.00 e.00 e.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DISCHARGE (CFS)	CONCENTRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE 97 827 36	DISCHARGE (TONS/DAY) 31 66 .18 e.00 e.00 e.00 e.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE 97 827 36	DISCHARGE (TONS/DAY) 31 66 .18 e.00 e.00 e.00 e.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DISCHARGE (CFS)	CONCENTRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE 97 827 36	DISCHARGE (TONS/DAY) 31 66 .18 e.00 e.00 e.00 e.00
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	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE 97 827 366 97 827	DISCHARGE (TONS/DAY) 31 66 .18 e.00 e.00 e.00 e.00
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	DISCHARGE (CFS)	CONCENTRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE 97 827 36 9	DISCHARGE (TONS/DAY) 31 66 .18 e.00 e.00 e.00
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE 97 827 366 97 827	DISCHARGE (TONS/DAY) 31 66 .18 e.00 e.00 e.00 e.00
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	DISCHARGE (CFS)	CONCENTRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE 97 827 36 9	DISCHARGE (TONS/DAY) 31 66 .18 e.00 e.00 e.00
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 20 21 22 23 23 24 25 25 26 27 27 28 27 28 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY) 31 66 .18 e.00 e.00 e.00 e.00
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	DISCHARGE (CFS)	CONCENTRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE 97 827 36 9	DISCHARGE (TONS/DAY) 31 66 .18 e.00 e.00 e.00
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 20 21 22 23 23 24 25 25 26 27 27 28 27 28 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) .00 .00 .00 .00 .00 .00 .00 .00 .00 .	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY) 31 66 .18 e.00 e.00 e.00 e.00

07126390 LOCKWOOD CANYON CREEK NEAR THATCHER, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

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 2	.00			.00			.00		
3 4 5	.00 .00 .00			.00 7.1 6.1		e13 e8.5	.00 .00 .00		
6 7	.00			.01	 6	e.00 .18	.00		
8 9 10	.00 .00 .00			2.3 .01 .00	87 	.86 e.00	.00 .00 .00	 	
11 12	.00			.00			.00		
13 14 15	.00 .00 .00	 	 	.00 .00 .00		 	.00 .00 .00	 	
16 17	.00			.00			.00		
18 19 20	.00			.00			.00		
21	.00			.00			.00		
22 23 24	.00 .00 .00			.00 .00 .00			.00 .00 .00		
25	.00			.00			.00		
26 27 28	.00 .00 .00			.00 .00 .00	 	 	.00 .00 .00		
29 30 31	.00 .00 .00	 	 	.00 .00 .00			.00 .00	 	
TOTAL	0.00		0	16.43		22.54	0.00		0

e Estimated.

--NO FLOW DURING 2000 WATER YEAR--

07126390 LOCKWOOD CANYON CREEK NEAR THATCHER, CO--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--May 1999 to current year (seasonal records only).

 ${\tt GAGE.--Tipping-bucket}$ rain gage with satellite telemetry.

REMARKS.--Records for 1999 and 2000 water years are good. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 1.10 inches, Sept. 15, 1999.

EXTREMES FOR 1999 WATER YEAR (seasonal only).--Maximum daily precipitation for period May to September, 1.10 inches, Sept. 15.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 0.77 inches, July 17.

		PREC	IPITATION,	TOTAL,		ATER YEAR 7 SUM VALU		1998 TO S	EPTEMBER	1999		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									.00	.00	.76	.00
2									.00	.00	.01	.00
3									.00	.00	.24	.00
4									.00	.00	.49	.00
5									.00	.00	.00	.00
6									.00	.00	.00	.00
7									.00	.00	.66	.00
8									.00	.24	.04	.00
9									.25	.02	.00	.00
10									.00	.00	.00	.00
11									.00	.00	.00	.00
12									1.04	.00	.00	.00
13									.00	.00	.00	.00
14								e.00	.05	.00	.00	.00
15								.02	.00	.00	.00	1.10
16								.00	.00	.12	.00	.00
17								.00	.07	.01	.00	.00
18								.00	.00	.00	.15	.00
19								.10	.00	.00	.00	.00
20								.00	.00	.20	.00	.00
21								.00	.00	.01	.07	.00
22								.00	.00	.00	.00	.00
23								.00	.00	.05	.00	.00
24								.00	.00	.02	.00	.00
25								.56	.00	.00	.00	.00
26								.00	.00	.04	.00	.00
27								.00	.00	.00	.00	.00
28								.00	.00	.00	.03	.00
29								.00	.00	.00	.32	.00
30								.00	.00	.12	.00	.00
31								.00		1.00	.00	
TOTAL									1.41	1.83	2.77	1.10
MAX									1.04	1.00	.76	1.10
	Estimated										.,0	0

		PRECIPI	TATION, T	COTAL, INC		R YEAR OC SUM VALUE:		99 TO SEPT	EMBER 200	00		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00							.00	.00	.00	.00	.00
2	.00							.00	.00	.00	.00	.00
3	.00							.00	.00	.00	.15	.00
4	.00							.00	.00	.00	.16	.05
5	.00							.00	.00	.00	.00	.00
6	.00							.00	.00	.28	.08	.00
7	.33							.00	.00	.00	.00	.00
8	.00							.45	.01	.00	.00	.00
9	.00							.00	.00	.01	.00	.00
10	.00							.00	.01	.00	.00	.00
11	.00							.00	.01	.52	.00	.00
12	.00							.00	.00	.00	.03	.00
13	.00							.00	.00	.00	.00	.00
14	.00						e.00	.00	.00			
										.00	.00	.00
15	.00						.00	.00	.00	.00	.00	.00
16	.05						.00	.00	.00	.19	.00	.00
17	. 27						.00	.00	.00	.77	.33	.00
18	.07						.00	.00	.00	.01	.01	.00
19	e.31						.00	.00	.00	.00	.01	.00
20							.00	.00	.05	.15	.00	.04
21							.00	.00	.00	.14	.64	.01
22							.00	.00	.03	.00	.00	.00
23							.07	.00	.00	.00	.00	.18
24							.01	.03	.00	.00	.00	.04
25							.00	.00	.00	.00	.00	.00
26							.00	.00	.29	.00	.18	.00
27							.00	.00	. 29	.00	.00	.00
28							.00	.00	.03	.23	.00	.00
29							.13	.00	.06	.00	.00	.00
30							.33	.00	.02	.00	.00	.00
31								.00		.00	.00	
TOTAL								0.48	0.80	2.30	1.59	0.32
MAX								.45	.29	.77	.64	.18
MAX e	Estimated.							.45	. 29	. / /	.04	.10

arkansas river basin 345

07126415 RED ROCK CANYON CREEK AT MOUTH NEAR THATCHER, CO

LOCATION (REVISED).--Lat 37°30'55", long 103°43'30", Las Animas County, Hydrologic Unit 11020010, on left bank 200 ft downstream from Welsh Canyon Creek, 0.3 mi upstream from mouth, and 21 mi east of Thatcher.

DRAINAGE AREA.--48.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1983 to September 1990, October 1990 to September 1999 (annual maximum only), April to September 2000 (seasonal records only).

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gages. Elevation of gage is 4,510 ft above sea level, from topographic map.

REMARKS. -- Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,530 ft^3/s , May 22 1997, from rating curve extended above 0.3 ft^3/s on basis of slope-area measurements of peak flow at gage heights 7.54, 8.40, and 10.02 feet, gage height, 10.09 feet, from floodmarks; no flow most days.

EXTREMES FOR CURRENT YEAR (seasonal only) .-- No flow during the year.

		DISCHARGE	, CUBIC	FEET PER		WATER YEA MEAN VAI	AR OCTOBER LUES	1999 TO	SEPTEMBER	2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								.00	.00	.00	.00	.00
2								.00	.00	.00	.00	.00
3								.00	.00	.00	.00	.00
4								.00	.00	.00	.00	.00
5								.00	.00	.00	.00	.00
6								.00	.00	.00	.00	.00
7								.00	.00	.00	.00	.00
8								.00	.00	.00	.00	.00
9								.00	.00	.00	.00	.00
10								.00	.00	.00	.00	.00
11								.00	.00	.00	.00	.00
12								.00	.00	.00	.00	.00
13								.00	.00	.00	.00	.00
14								.00	.00	.00	.00	.00
15								.00	.00	.00	.00	.00
16								.00	.00	.00	.00	.00
17								.00	.00	.00	.00	.00
18								.00	.00	.00	.00	.00
19								.00	.00	.00	.00	.00
20								.00	.00	.00	.00	.00
21								.00	.00	.00	.00	.00
22								.00	.00	.00	.00	.00
23								.00	.00	.00	.00	.00
24								.00	.00	.00	.00	.00
25								.00	.00	.00	.00	.00
26								.00	.00	.00	.00	.00
27								.00	.00	.00	.00	.00
28							e.00	.00	.00	.00	.00	.00
29							.00	.00	.00	.00	.00	.00
30							.00	.00	.00	.00	.00	.00
31								.00		.00	.00	
TOTAL								0.00	0.00	0.00	0.00	0.00
MEAN								.000	.000	.000	.000	.000
MAX								.00	.00	.00	.00	.00
MIN								.00	.00	.00	.00	.00
AC-FT								.00	.00	.00	.00	.00

e Estimated.

07126415 RED ROCK CANYON CREEK AT MOUTH NEAR THATCHER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1983 to September 1990. June to September 2000. PERIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE: May 1983 to September 1990.
WATER TEMPERATURE: May 1983 to September 1990. SUSPENDED SEDIMENT: June to September 2000 (seasonal records only). INSTRUMENTATION. -- Pumping sediment sampler since June 2000. REMARKS.--Records good. Daily data that are not published are either missing or of unacceptable quality. EXTREMES FOR PERIOD OF RECORD.—

SPECIFIC CONDUCTANCE: Maximum, 3,100 microsiemens, June 28, 1983; minimum, 83 microsiemens, June 6, 1989.

WATER TEMPERATURE: Maximum, 33.3°C, Aug. 17, 1990; minimum, 5.5°C, Apr. 25, 1990.

SEDIMENT CONCENTRATION (seasonal only): No flow for period of record.

SEDIMENT LOAD (seasonal only): No flow for period of record.

EXTREMES FOR CURRENT YEAR.--SEDIMENT CONCENTRATION (seasonal only): No flow for current year. SEDIMENT LOAD (seasonal only): No flow for current year.

--NO FLOW DURING CURRENT YEAR--

arkansas river basin 347

07126415 RED ROCK CANYON CREEK AT MOUTH NEAR THATCHER, CO--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--April to September 2000 (seasonal records only).

GAGE.--Tipping-bucket rain gage with satellite telemetry.

REMARKS.--Records good. Records published for period of seasonal operation only (Apr. 28 to Sept. 30). Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 1.07 inches, Aug. 17, 2000.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 1.07 inches, Aug. 17.

		PRECI	PITATION,	TOTAL,		WATER YEAR LY SUM VAI		1999 TO	SEPTEMBER	2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								.00	.01	.00	.00	.00
2								.00	.00	.00	.00	.00
3								.00	.00	.00	.06	.00
4								.00	.00	.00	.01	.02
5								.00	.00	.00	.00	.00
6								.00	.00	.11	.21	.00
7								.00	.00	.00	.00	.00
8								.43	.00	.00	.00	.00
9								.01	.00	.00	.00	.00
10								.00	.02	.00	.00	.00
11								.00	.01	.74	.00	.00
12								.00	.00	.00	.06	.00
13								.00	.00	.00	.00	.00
14								.00	.00	.00	.00	.00
15								.00	.00	.01	.03	.00
16								.00	.00	.17	.00	.00
17								.00	.00	.17	1.07	.00
18								.00	.00	.00	.03	.00
19								.18	.00	.00	.01	.00
20								.00	.00	.32	.00	.05
21								.00	.00	.00	.18	.01
22								.00	.00	.00	.01	.00
23								.00	.00	.00	.00	.10
24								.00	.00	.00	.00	.04
25								.03	.15	.00	.00	.00
26								.00	.68	.00	.04	.00
27								.00	.73	.00	.00	.00
28							e.00	.00	.02	.10	.00	.00
29							.06	.00	.10	.00	.00	.00
30							.35	.00	.00	.00	.00	.00
31								.00		.00	.00	
TOTAL								0.65	1.72	1.62	1.71	0.22
MAX								.43	.73	.74	1.07	.10

e Estimated.

07126480 BENT CANYON CREEK AT MOUTH NEAR TIMPAS, CO

LOCATION.--Lat $37^{\circ}35^{\circ}21^{\circ}$, long $103^{\circ}38^{\circ}52^{\circ}$, in $SE^{1}/_{4}SE^{1}/_{4}$ sec.23, T.28 S., R.65 W., Las Animas County, Hydrologic Unit 11020010, 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. -- 56.2 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1983 to September 1990, October 1990 to September 1999 (annual maximum only), June to September 2000 (seasonal records only).

REVISED RECORDS.--WDR CO-84-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, and crest-stage gages. Elevation of gage is 4,402 ft above sea level, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,640 ${\rm ft}^3/{\rm s}$, Aug. 21, 1984, from slope-area measurement of peak flow, gage height, 12.56 feet, from floodmark; no flow most days.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge during period June to September, 184 $\mathrm{ft^3/s}$, July 11, gage height, 6.33 feet, from rating curve extended above 41 $\mathrm{ft^3/s}$ on basis of slope-area measurements at gage heights 8.70 ft, 11.61 ft, and 12.56 ft; no flow most days.

		DISCHAR	RGE, CUBIC	FEET PER		WATER YEA MEAN VAL		R 1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										.00	.00	.00
2										.00	.00	.00
3										.00	.00	.00
4										.00	.00	.00
5										.00	.00	.00
6									e.00	.00	4.2	.00
7									.00	.00	.00	.00
8									.00	.00	.00	.00
9									.00	.00	.00	.00
10									.00	.00	.00	.00
10									.00	.00	.00	.00
11									.00	5.4	.00	.00
12									.00	.06	.00	.00
13									.00	.00	.00	.00
14									.00	.00	.00	.00
15									.00	.00	.00	.00
16									.00	.00	.00	.00
17									.00	.00	.00	.00
18									.00	.00	.00	.00
19									.00	.00	.00	.00
20									.00	.00	.00	.00
21									.00	.00	.00	.00
22									.00	.00	.00	.00
23									.00	.00	.00	.00
24									.00	.00	.00	.00
25									.00	.00	.00	.00
23									.00	.00	.00	.00
26									.00	.00	.00	.00
27									.00	.00	.00	.00
28									.00	.00	.00	.00
29									.00	.00	.00	.00
30									.00	.00	.00	.00
31										.00	.00	
TOTAL										5.46	4.20	0.00
MEAN										.18	.14	.000
MAX										5.4	4.2	
												.00
MIN										.00	.00	.00
AC-FT										11	8.3	.00

e Estimated.

07126480 BENT CANYON CREEK AT MOUTH NEAR TIMPAS, CO

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1983 to September 1990. June to September 2000.

PERIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE: July 1983 to September 1990.
WATER TEMPERATURE: July 1983 to September 1990.
SUSPENDED SEDIMENT: May 1983 to September 1990. June to September 2000 (seasonal records only).

INSTRUMENTATION. -- Pumping sediment sampler since June 2000.

REMARKS.--Records poor. Daily mean sediment concentrations published for days of partial flow might not reflect concentrations during the flow event, including July 11, Aug. 6.

EXTREMES FOR PERIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE: Maximum, 1,640 microsiemens, June 29, 1988; minimum, 109 microsiemens, Aug. 1 1984.
WATER TEMPERATURE: Maximum, 27.2°C, July 31, 1990; minimum, 8.6°C, May 24, 1988.
SEDIMENT CONCENTRATION: Maximum daily mean, 48,700 mg/L, July 15, 1984; minimum daily mean, 78 mg/L, July 2, 1986.
SEDIMENT LOAD: Maximum daily, 21,100 tons, Aug. 22, 1984; minimum daily, 0.02 ton (estimated), July 14, 1989,
Aug. 16, 1990; no flow most days.

EXTREMES FOR CURRENT YEAR.-SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 852 mg/L, Aug. 6; minimum daily mean, 326 mg/L, July 11.
SEDIMENT LOAD (seasonal only): Maximum daily, 74 tons, Aug. 6; minimum daily, 0.12 ton (estimated), July 12; no flow most days.

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

MEAN

DAY	MEAN DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
2711	(CLD)	OCTOBER	(IONO/DIII)		NOVEMBER	(IONO/DIII)		ECEMBER	(IOND/DIII)
		OCTOBBIC		-	NO VENEZE		D.	JCH IDLIC	
1									
2									
3									
4									
5									
_									
6									
7									
8 9						===			===
10									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
TOTAL	0		0	0		0	0		0

07126480 BENT CANYON CREEK AT MOUTH NEAR TIMPAS, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)
		JANUARY			FEBRUARY			MARCH	
1									
2									
3 4									
5									
6									
7									
8									
9 10									
10									
11									
12 13									
14									
15									
16									
17 18									
19									
20									
21									
22									
23									
24 25									
26 27									
28									
29 30									
31									
TOTAL	0		0	0		0	0		0
DAY	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)
DAY	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE
	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5	DISCHARGE (CFS)	CONCENTRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCENTRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 0.00 0.00 .00	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 0.00 0.00 .00	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) e.00 .00 .00 .00 .00 .00	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) e.00 .00 .00 .00 .00 .00	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)
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	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) APRIL	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MAY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JUNE	DISCHARGE (TONS/DAY)

07126480 BENT CANYON CREEK AT MOUTH NEAR TIMPAS, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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			4.2	852	74	.00		
7	.00			.00			.00		
8	.00			.00			.00		
9	.00			.00			.00		
10	.00			.00			.00		
11	5.4	326	27	.00			.00		
12	.06		e.12	.00			.00		
13	.00			.00			.00		
14	.00			.00			.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	.00			.00			.00		
29	.00			.00			.00		
30	.00			.00			.00		
31	.00			.00					
TOTAL	5.46	===	27.12	4.20		74	0.00	===	0

e Estimated.

07126480 BENT CANYON CREEK AT MOUTH NEAR TIMPAS, CO--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--June to September 2000 (seasonal records only).

GAGE.--Tipping-bucket rain gage with satellite telemetry.

REMARKS.--Records good except for Aug. 16 to Sept. 30, which are poor. Records published for period of seasonal operation include June 6 to Sept. 30. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 2.28 inches, July 11, 2000.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 2.28 inches, July 11.

		PRECI	PITATION,	TOTAL,		NATER YEAR LY SUM VALU		1999 TO	SEPTEMBER	2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										.00	.00	.00
2										.00	.00	.00
3										.00	.13	.00
4										.00	.00	.04
5										.00	.02	.01
6									e.00	.15	.47	.02
7									.00	.00	.00	.00
8									.00	.00	.00	.00
9									.00	.00	.00	.00
10									.03	.00	.00	.00
11									.01	2.28	.00	.00
12									.00	.00	.05	.00
13									.00	.00	.00	.00
14									.00	.00	.00	.00
15									.00	.01	.01	.00
16									.00	.05	.00	.00
17									.00	.64	e.82	.00
18									.00	.03	e.01	.00
19									.00	.00	.00	.00
20									.00	.31	.00	.03
21									.00	.02	e.04	.01
22									.00	.00	.00	.00
23									.00	.00	.00	.06
24									.01	.00	.00	.02
25									.90	.00	.00	.00
26									1.56	.00	.24	.00
27									.30	.00	.01	.00
28									.00	.09	.00	.00
29									.09	.00	.00	.00
30									.00	.00	.00	.00
31										.00	.00	
TOTAL										3.58	1.80	0.19
MAX										2.28	.82	.06

e Estimated.

07126485 PURGATOIRE RIVER AT ROCK CROSSING NEAR TIMPAS, CO

LOCATION.--Lat $37^{\circ}37^{\circ}06^{\circ}$, long $103^{\circ}35^{\circ}35^{\circ}$ in $NE^{1}/_{4}SE^{1}/_{4}$ 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

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 for discharges above 2,500 ft³/s, which are fair, and estimated daily discharges, which are poor. Natural flow of stream affected by diversions upstream from station for irrigation of about 30,000 acres. Peak flows are regulated to some extent by Trinidad Dam, 92 mi upstream.

		DISCHAR	GE, CUBI	C FEET PER		NATER YE MEAN VA	EAR OCTOBER	1999 TO	SEPTEMBE	ER 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e42 e42 e43 e45 46	50 48 47 44 44	e44 e45 e45 e44 e45	e43 e42 e41 38 39	e38 e40 e39 e38 e38	34 35 38 38 38	55 116 215 269 252	67 108 e107 146 121	16 15 16 17 15	39 35 31 27 24	11 11 11 11	22 21 22 23 23
6 7 8 9 10	57 58 49 45 46	46 46 44 44	e45 e45 41 e40 e39	42 42 35 39 39	e38 e37 e38 e37 e36	37 35 37 36 36	507 472 381 310 241	85 53 47 47 43	20 17 17 25 23	33 27 23 21 19	14 12 7.6 9.0	22 22 22 21 21
11 12 13 14 15	46 44 43 42 44	43 43 43 43	e39 e38 e36 e36 e36	40 41 42 40 39	e37 e37 e36 e36 36	34 33 33 33 33	165 143 146 205 211	69 82 69 46 42	22 20 17 23 23	131 63 55 36 26	10 7.2 5.8 4.8 3.9	22 21 20 19 18
16 17 18 19 20	44 42 44 47 58	43 43 44 e45 e45	e36 e36 e36 e37 e38	39 e39 e38 38 39	35 35 34 33 34	34 35 42 47 50	210 206 131 108 100	41 41 37 32 31	21 21 21 19 21	90 415 42 35 33	3.5 3.4 7.4 18	18 16 16 15 15
21 22 23 24 25	78 64 57 52 49	e44 e43 e45 e45 e45	e39 e40 e41 e41 e43	39 39 38 38 38	33 33 35 34 33	48 44 44 49 57	95 93 96 102 104	30 32 30 29 25	27 22 18 15 18	37 21 18 17 17	18 1040 69 35 28	15 15 15 15 14
26 27 28 29 30 31	53 52 49 50 49	e46 e45 e45 e44 e45	e45 e47 e47 e46 e45 e44	e38 e39 e39 e38 e37 e38	32 32 31 32 	56 52 48 45 45 57	103 85 66 51 53	24 21 23 22 20 18	18 26 17 65 49	17 14 14 22 15	26 24 22 22 27 25	14 15 19 20 20
TOTAL MEAN MAX MIN AC-FT	1529 49.3 78 42 3030	1339 44.6 50 43 2660	1279 41.3 47 36 2540	1216 39.2 43 35 2410	1027 35.4 40 31 2040	1283 41.4 57 33 2540	5291 176 507 51 10490	1588 51.2 146 18 3150	664 22.1 65 15 1320	1409 45.5 415 12 2790	1528.6 49.3 1040 3.4 3030	561 18.7 23 14 1110
STATIST	ICS OF MC	NTHLY MEAI	N DATA F	OR WATER Y	EARS 1983	- 2000,	BY WATER Y	EAR (WY)				
MEAN MAX (WY) MIN (WY)	43.1 89.1 1999 13.0 1990	41.2 68.3 1999 20.5 1990	34.7 43.4 1998 15.6 1991	32.7 41.4 1984 17.4 1991	35.2 56.0 1988 22.7 1991	46.8 139 1998 19.7 1991	94.4 330 1993 16.8 1989	138 585 1987 5.81 1991	107 836 1983 9.65 1990	78.7 186 1992 11.2 1989	127 468 1999 39.1 1985	45.2 98.6 1993 12.5 1990
SUMMARY	STATISTI	CS.	FOR :	1999 CALEN	DAR YEAR	F	FOR 2000 WAT	ER YEAR		WATER Y	EARS 1983	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	MEAN 'ANNUAL M ANNUAL ME 'DAILY ME DAILY MEA	CAN CAN CAN CAN CAN CAK FLOW CAK STAGE CC-FT) CDS CDS		41781 114 4190 22 25 82870 207 44 29	May 2 Apr 13 Mar 28		18714.6 51.1 1040 3.4 5.1 2810 12.47 37120 79 38 16	Aug 12 Aug 22		65.1 123 29.6 4190 a.0 b11400 c17.9 47180 124 36 15	May 0 Jun 0 Jun Jul	1987 1989 2 1999 30 1990 30 1990 9 1992 9 1992

e Estimated.

a Also occurred Jul 1-9, 1990.

b From 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 September 1992. June 1997 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 1997 to current year (seasonal peaks only).

INSTRUMENTATION. -- Pumping sediment sampler since June 1997.

REMARKS.--Records for daily sediment are poor. Daily sediment records are published 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 the district office.

EXTREMES FOR PERIOD OF RECORD . --

TREMES 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, many days.
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 (occurred during period of seasonal record), 287,000 tons (estimated), May 2, 1999; minimum daily, 0.0 ton (estimated), several days during 1989 and 1990.

EXTREMES FOR CURRENT YEAR.-- SEDIMENT CONCENTRATIONS (seasonal peaks only): Maximum daily mean, 8,240 mg/L, July 17; minimum daily mean, 456 mg/L,

SEDIMENT LOADS (seasonal peaks only): Maximum daily, 19,200 tons, Aug. 22; minimum daily, 71 tons (estimated), May 6.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		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	TIME	PER	ANCE	WATER
		SECOND	(US/CM)	(DEG C)			SECOND	(US/CM)	(DEG C)
		(00061)	(00095)	(00010)			(00061)	(00095)	(00010)
OCT					MAY				
18	1545	44	3160	11.1	03	1605	147	3020	20.7
JAN					JUN				
25	1130	38	3390	3.0	08	1815	18	3650	25.2
MAR					AUG				
15	1450	33	3410	12.7	16	1120	3.6	3160	24.4
APR					30	0950	27	1340	24.5
27	1800	82	1560	20.4					

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		DIS-			SEDI-
		CHARGE,			MENT,
		INST.		SEDI-	DIS-
		CUBIC	TEMPER-	MENT,	CHARGE,
		FEET	ATURE	SUS-	SUS-
DATE	TIME	PER	WATER	PENDED	PENDED
		SECOND	(DEG C)	(MG/L)	(T/DAY)
		(00061)	(00010)	(80154)	(80155)
OCT					
18	1545	44	11.1	14	1.7
APR					
27	1800	82	20.4	74	16
MAY					
03	1605	147	20.7	96	38
JUN					
08	1815	18	25.2	76	3.7
21	1220	28	23.9	32	2.4
AUG					
16	1120	3.6	24.4	20	.19
30	0950	27	24.5	67	4.9

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07126485 PURGATOIRE RIVER AT ROCK CROSSING NEAR TIMPAS, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MEAN DISCHARGE (CFS)	TRATION	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER		1	NOVEMBER		D	ECEMBER	
1	e42			50			e44		
2	e42 e43			48 47			e45 e45		
4	e45			44			e44		
5	46			44			e45		
6	57			46			e45		
7 8	58 49			46 44			e45 41		
9	45			44			e40		
10	46			44			e39		
11	46			43			e39		
12	44			43			e38		
13 14	43 42			43 43			e36 e36		
15	44			43			e36		
16	44			43			236		
17	44			43			e36 e36		
18	44			44			e36		
19 20	47 58			e45 e45			e37 e38		
20	56			643			630		
21	78			e44			e39		
22 23	64 57			e43 e45			e40 e41		
24	52			e45			e41		
25	49			e45			e43		
26	53			e46			e45		
27	52			e45			e47		
28 29	49 50			e45 e44			e47 e46		
30	49			e45			e45		
31	49				===		e44		
TOTAL	1529		0	1339		0	1279		0
DAY	MEAN DISCHARGE (CFS)	TRATION	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)		SEDIMENT DISCHARGE (TONS/DAY)
DAY	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE	CONCEN- TRATION (MG/L)	DISCHARGE
	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION	DISCHARGE
1	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE	DISCHARGE (CFS)	CONCEN- TRATION (MG/L) MARCH	DISCHARGE
1 2 3	DISCHARGE (CFS) e43 e42 e41	CONCENTRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) e38 e40 e39	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38	CONCENTRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4	CFS) e43 e42 e41 38	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) e38 e40 e39 e38	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38	CONCENTRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3	DISCHARGE (CFS) e43 e42 e41	CONCENTRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) e38 e40 e39	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38	CONCENTRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5	DISCHARGE (CFS) e43 e42 e41 38 39 42	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) e38 e40 e39 e38 e38	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38 38 38	CONCENTRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5	DISCHARGE (CFS) e43 e42 e41 38 39 42 42	CONCENTRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) e38 e40 e39 e38 e38 e38	CONCENTRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38 38 38 37 35	CONCENTRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9	e43 e42 e41 38 39 42 42 35 39	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) e38 e40 e39 e38 e38 e38 e37 e38 e37	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38 38 37 35 37	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5	DISCHARGE (CFS) e43 e42 e41 38 39 42 42 35	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) e38 e40 e39 e38 e38 e38	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38 38 38 37 35	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9	e43 e42 e41 38 39 42 42 35 39	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) e38 e40 e39 e38 e38 e38 e37 e38 e37	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38 38 37 35 37	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS) e43 e42 e41 38 39 42 42 35 39 39 40 41	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) e38 e40 e39 e38 e38 e37 e38 e37 e36 e37	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38 38 38 37 35 37 36 36 36 34	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	e43 e42 e41 38 39 42 42 42 42 41 35 39 39	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) e38 e40 e39 e38 e38 e37 e36 e37 e36 e37 e36	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38 38 38 37 35 37 36 36 36 34 33 33	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10	DISCHARGE (CFS) e43 e42 e41 38 39 42 42 35 39 39 40 41	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) e38 e40 e39 e38 e38 e37 e38 e37 e36 e37	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38 38 38 37 35 37 36 36 36 34	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	e43 e42 e41 38 39 42 42 42 42 35 39 39 40 41 42 40 39	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	e38 e40 e39 e38 e38 e37 e36 e37 e36 e37 e36 e36	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38 38 37 35 37 36 36 36 34 33 33 33	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	e43 e42 e41 38 39 42 42 42 35 39 39 39	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) e38 e40 e39 e38 e38 e37 e38 e37 e36 e37 e36 36 36	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38 38 38 37 35 37 36 36 36 34 33 33 33 33	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	e43 e42 e41 38 39 42 42 42 35 39 39 40 41 42 40 39 89 89 89 89	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	e38 e40 e39 e38 e38 e37 e36 e37 e36 e37 e36 36 35 35	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38 38 37 35 37 36 36 36 34 33 33 33 34 35 42	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	e43 e42 e41 38 39 42 42 35 39 39 40 41 42 40 39 e39 e39 e38 38	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) e38 e40 e39 e38 e38 e37 e38 e37 e36 e37 e36 36 35 35 35 34	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38 38 38 37 35 37 36 36 34 33 33 33 34 35 42 47	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	e43 e42 e41 38 39 42 42 42 35 39 39 40 41 42 40 39 89 89 838 38 39	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) e38 e40 e39 e38 e38 e37 e36 e37 e36 e37 e37 e36 a36 35 35 35 35 34	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38 38 38 37 35 37 36 36 36 34 33 33 33 34 45 50	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	e43 e42 e41 38 39 42 42 35 39 39 40 41 42 40 39 e39 e39 e38 38 39	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) e38 e40 e39 e38 e38 e37 e38 e37 e36 e37 e36 36 35 35 34 33 34	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38 38 38 37 35 37 36 36 34 33 33 33 34 35 42 47 50	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	e43 e42 e41 38 39 42 42 42 35 39 39 40 41 42 40 39 89 89 838 38 39	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) e38 e40 e39 e38 e38 e37 e36 e37 e36 e37 e37 e36 a36 35 35 35 35 34	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38 38 38 37 35 37 36 36 36 34 33 33 33 34 45 50	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	e43 e42 e41 38 39 42 42 35 39 39 40 41 42 40 39 e39 e39 e38 39 39 e39 e39 e38 38 39	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) e38 e40 e39 e38 e38 e37 e36 e37 e36 e37 e36 35 34 33 34 33 35 34	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38 38 38 37 35 37 36 36 36 34 33 33 33 34 45 42 47 50 48 44 44	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	e43 e42 e41 38 39 42 42 42 35 39 39 40 41 42 40 39 e39 e38 38 39 39 39 39 39 39 39 39 39 39 39	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	e38 e40 e39 e38 e38 e37 e36 e37 e36 e37 e36 a37 e37 e37 e37 e36 a36 a37 a37 a37 a38 a33 a34	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38 38 38 37 35 37 36 36 34 33 33 33 34 45 50 48 44	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
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	e43 e42 e41 38 39 42 42 42 40 41 42 40 39 39 39 83 39 39 838 38 38 88	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	e38 e40 e39 e38 e38 e37 e36 e37 e36 e37 e36 a37 e36 a37 a33 a33 a34 a33 a33 a35 a34 a33 a33 a35 a34 a33 a33 a35 a34 a33 a35 a34 a33 a35 a34 a33 a35 a34 a33	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38 38 38 37 35 37 36 36 36 34 33 33 33 34 45 42 47 50 48 44 49 57	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
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	e43 e42 e41 38 39 42 42 42 41 40 39 39 e38 38 38 38 38 38 38 38 38	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	e38 e40 e39 e38 e38 e37 e36 e37 e36 e37 e36 e37 e36 e36 33 34 33 34 33 34 33 34 33 34 33 32	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38 38 38 37 35 37 36 36 36 34 33 33 33 34 435 42 47 50 48 44 49 57	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
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	e43 e42 e41 38 39 42 42 42 40 41 42 40 39 39 39 83 39 39 838 38 38 88	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	e38 e40 e39 e38 e38 e37 e36 e37 e36 e37 e36 a37 e36 a37 a33 a33 a34 a33 a33 a35 a34 a33 a33 a35 a34 a33 a33 a35 a34 a33 a35 a34 a33 a35 a34 a33 a35 a34 a33	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38 38 38 37 35 37 36 36 36 34 33 33 33 34 45 42 47 50 48 44 49 57	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
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	e43 e42 e41 38 39 42 42 42 40 39 39 40 41 42 40 39 83 39 83 83 38 83 88 83 89 83 88 83 88 83 88 83 88 83 88 83 88 83 88 83 88 83 88 83 88 83 88 83 88 83 88 83 88 83 88 83 88 83 88 83 88 83 83	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	e38 e40 e39 e38 e38 e37 e36 e37 e36 e37 e36 a37 e36 a36 a36 a35 a34 a33 a34 a33 a34 a33 a35 a44 a33 a35 a44 a33 a35 a44 a33 a35 a44 a33 a36 a36 a36 a36 a36 a36 a36 a36 a36	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38 38 37 35 37 36 36 36 34 33 33 33 34 43 55 42 47 50 48 44 49 57 56 52 48 45 45	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)
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	e43 e42 e41 38 39 42 42 42 40 39 39 39 39 39 39 39 39 39 39 39 39 39	CONCEN- TRATION (MG/L) JANUARY	DISCHARGE (TONS/DAY)	e38 e40 e39 e38 e38 e37 e36 e37 e36 e37 e36 a37 e36 a37	CONCEN- TRATION (MG/L) FEBRUARY	DISCHARGE (TONS/DAY)	DISCHARGE (CFS) 34 35 38 38 38 37 35 37 36 36 36 34 33 33 33 34 42 47 50 48 44 44 49 57	CONCEN- TRATION (MG/L) MARCH	DISCHARGE (TONS/DAY)

07126485 PURGATOIRE RIVER AT ROCK CROSSING NEAR TIMPAS, CO--Continued
SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

MEAN CONCEN-MEAN CONCEN-MEAN MEAN SEDIMENT MEAN SEDIMENT MEAN CONCEN-SEDIMENT TRATION DISCHARGE (MG/L) (TONS/DAY) DISCHARGE TRATION DISCHARGE DISCHARGE DISCHARGE TRATION DISCHARGE DAY (MG/L) (TONS/DAY) (CFS) (MG/L) (TONS/DAY) (CFS) (CFS) APRIL MAY JUNE 2 3 55 67 16 e217 116 215 ___ 108 e107 ___ e109 15 ---___ e882 16 e107 269 e1470 146 e231 17 ---___ ___ ---5 252 e1260 121 e145 15 6 7 507 e6190 85 e71 20 ------------472 e5260 53 17 8 381 ___ e3230 47 ___ ---17 -----e2020 25 10 241 ___ e1140 43 ___ ___ 23 ___ ---11 165 e483 69 22 20 12 143 e349 82 13 146 --e366 69 ------17 ------------23 ---14 205 e791 46 15 211 e845 42 ___ ___ 210 41 21 16 ___ e836 ___ ___ ___ ___ 206 21 17 e800 41 18 131 --e286 37 ------21 ------19 19 108 e185 32 20 100 e155 31 21 ---___ 21 95 ___ 30 ___ 27 ___ 22 22 93 32 23 96 ___ e141 30 ___ ___ 18 ___ ___ ---------------24 102 29 15 e162 25 104 e169 25 18 26 27 103 --------------e166 24 21 26 85 28 66 23 17 ---___ ---------29 ___ 22 65 51 ---------------30 53 20 49 ---31 18 1588 TOTAL 5291 27403 0 ------663 664 ---MEAN MEAN MEAN MEAN CONCEN- SEDIMENT MEAN CONCEN-SEDIMENT MEAN CONCEN-SEDIMENT DISCHARGE TRATION DISCHARGE DISCHARGE TRATION DISCHARGE DISCHARGE TRATION DISCHARGE DAY (CFS) (MG/L) (TONS/DAY) (CFS) (MG/L) (TONS/DAY) (CFS) (MG/L) (TONS/DAY) JULY AUGUST SEPTEMBER 1 39 11 22 2 21 35 11 3 4 31 27 ___ ___ 11 ___ ___ 22 ___ ___ 11 23 5 24 11 23 14 12 22 22 6 7 33 27 ------------8 9 23 7.6 22 21 21 ---9.0 ___ ___ ___ 10 19 21 11 131 1320 2530 10 22 12 13 63 55 537 ---7.2 5.8 ---1580 ---21 ---------------20 ___ 14 36 4.8 19 26 3.9 18 90 1670 16 18 17 415 8240 14100 3.4 ------16 ------42 7.4 16 18 ---19 35 33 ___ 1 8 ___ 15 15 ___ ___ 18

18

69

35

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24 22

22 27

25

1528.6

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19310

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21

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23

24 25

26

27

28

29

30

31

TOTAL

37

21

18

17

17

14

14

22

15

1409

18837

e Estimated.

arkansas river basin 357

07126485 PURGATOIRE RIVER AT ROCK CROSSING NEAR TIMPAS, CO--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--April 1999 to current year (seasonal records only).

GAGE.--Tipping-bucket rain gage with satellite telemetry.

REMARKS.--Records good. Records published for period of seasonal operation only (Oct 1-18 and Apr. 27 to Sept. 30). Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 1.83 inches, Apr. 30, 1999.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 1.69 inches, Aug. 17.

		PRECI	PITATION,	TOTAL,	INCHES, WA	ATER YEAR 7 SUM VALU		1999 TO S	EPTEMBER :	2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.00							.00	.00	.00	.00	.00
2	e.00							.00	.00	.00	.00	.04
3	e.00							.00	1.08	.00	.01	.00
4	e.00							.00	.00	.00	.01	.43
5	.00							.00	.00	.00	.04	.00
6	.00							.00	.00	.01	.14	.00
7	.05							.00	.00	.00	.00	.00
8	.00							.59	.00	.00	.00	.00
9	.00							.00	.00	.00	.00	.00
10	.00							.00	.11	.00	.00	.00
11	.00							.00	.04	.06	.00	.00
12	.00							.00	.00	.00	.00	.00
13	.00							.00	.00	.00	.76	.00
14	.00							.00	.00	.00	.00	.00
15	.00							.00	.02	.00	.01	.00
16	.02							.00	.00	.01	.10	.00
17	.28							.00	.00	.04	1.69	.00
18	e.00							.00	.00	.02	.01	.00
19								.03	.00	.00	.00	.00
20								.01	.00	.23	.00	.03
21								.00	.00	.00	.00	.28
22								.00	.01	.00	.00	.00
23								.00	.00	.00	.00	.07
24								.00	.33	.00	.00	.04
25								.02	.26	.00	.00	.00
26								.00	.61	.00	.49	.00
27							e.00	.00	.03	.00	.00	.00
28							.03	.00	.00	.06	.00	.00
29							.23	. 95	.06	.00	.00	.00
30							.55	.00	.00	.00	.00	.00
31								.00		.00	.00	
TOTAL								1.60	2.55	0.43	3.26	0.89
MAX								.95	1.08	.23	1.69	.43

e Estimated.

07128500 PURGATOIRE RIVER NEAR LAS ANIMAS, CO

LOCATION.--Lat $38^{\circ}02^{\circ}02^{\circ}$, long $103^{\circ}12^{\circ}00^{\circ}$, in $\mathrm{NE}^{1}/_{4}\mathrm{SW}^{1}/_{4}$ 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 from mouth.

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

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 fair except Jan. 10-18, Feb. 28 to Mar. 9, and estimated daily discharges, which are poor. Natural flow of stream 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. Instantaneous discharge and selected water-quality data collected as part of a basin-wide water-quality assessment of the lower Arkansas River basin in Colorado are published elsewhere in this report.

DISCHARGE CURIC FEET DER SECOND WATER YEAR OCTORER 1999 TO SEDTEMBER 2000

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since at least 1860 occurred Oct. 1, 1904, discharge not determined.

		DISCHARGE	, CUBIC	C FEET PER		VATER Y MEAN V	EAR OCTOBER ALUES	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	86	56	e41	e40	31	93	59	16	47	9.3	16
2	84 84	86 88	56 55	e40 e40	42 40	35 42	102 125	68 89	31 17	36 26	6.9 6.1	18 16
4	85	84	57	e43	38	42	232	104	24	26	4.0	13
5	85	83	e55	e37	41	43	266	120	29	20	2.8	11
6	79	81	e54	e37	43	39	269	107	28	16	3.2	11
7	82	80	e50	e40	42	41	533	93	18	10	13	11
8	97 93	83 79	e45 e45	e42 e45	41 39	46 42	455 378	63 50	15 14	11 18	55 20	10 5.2
10	78	76	e45	42	36	36	314	41	10	13	15	6.7
11	75	69	e45	44	38	40	247	31	12	9.2	10	4.1
12	71	65	e48	43	e38	40	174	26	16	39	7.9	4.1
13	69	68	e48	43	41	37	147	54	12	81	11	2.7
14 15	69 65	70 69	e45 e40	41 42	41 39	36 74	130 156	60 46	16 8.1	44 39	9.6 6.9	5.7 4.2
16	70	68	e40	40	42	70	164	41	5.6	32	5.6	3.2
17	81	65	e45	41	40	72	171	43	5.6	155	4.8	2.8
18	79	63	e43	36	43	66	161	55	5.2	627	4.6	2.3
19 20	73 77	72 71	e40 e40	e35 e37	38 35	62 70	123 115	50 35	6.4 4.2	101 60	4.8 3.8	2.1 1.9
21		82				76	113					2.5
21	79 95	82 80	e40 e42	e35 e35	34 36	76 85	113 98	25 22	3.6 3.2	53 55	3.3 125	2.5
23	99	77	e42	e38	37	78	89	21	3.4	37	419	1.8
24	93	54	e40	e40	39	67	89	24	3.1	23	93	2.2
25	87	e55	e40	e42	38	64	90	35	3.1	17	45	1.9
26 27	80	e55 54	e42	e37	37 37	62	84 79	39 37	7.0 10	14 13	27 23	2.1 1.8
28	78 79	54 55	e44 e45	e40 e40	3 <i>1</i> 36	69 64	79 72	31	14	6.9	23 17	2.2
29	76	55	e43	e44	31	54	66	27	19	6.6	18	2.4
30	81	56	e44	e44		53	60	19	17	7.2	16	1.5
31	87		e42	e43		62		13		4.6	15	
TOTAL	2515		1416	1247	1122 38.7	1698	5195	1528	376.5	1647.5	1005.6	171.8
MEAN MAX	81.1 99	71.0 88	45.7 57	40.2 45	43	54.8 85	173 533	49.3 120	12.6 31	53.1 627	32.4 419	5.73 18
MIN	65	54	40	35	31	31	60	13	3.1	4.6	2.8	1.5
AC-FT	4990	4220	2810	2470	2230	3370	10300	3030	747	3270	1990	341
STATIST	CICS OF MC	NTHLY MEAN	DATA FO	OR WATER Y	ZEARS 1978	- 2000	, BY WATER Y	YEAR (WY)				
MEAN	39.4	39.2	30.9	32.8	32.9	44.2	86.8	142	107	75.0	137	48.3
MAX	125 1999	88.4 1999	57.5 1998	57.4 1998	61.9 1998	169 1998	418 1983	614 1987	724 1983	263 1981	761 1981	224 1981
(WY) MIN	1.58	1.90	2.38	4.72	5.65	5.26	3.53	5.41	8.76	7.67	3.76	3.14
(WY)	1978		1979	1979	1979	1978	1978	1991	1990	1994	1980	1978
SUMMARY	STATISTI	CS	FOR 1	.999 CALE	NDAR YEAR		FOR 2000 WAT	TER YEAR		WATER Y	EARS 1978	- 2000
ANNUAL	TOTAL			52057			20051.4					
ANNUAL				143			54.8			a68.2		
	ANNUAL ME									166 22.7		1983 1989
	DAILY ME			3890	May 3		627	Jul 18		b3890		3 1999
	DAILY MEA			19	Jul 7		1.5	Sep 30		c1.2	Oct 1	12 1977
	SEVEN-DAY			26	Feb 28		2.0	Sep 24		c1.3		10 1977
	ANEOUS PE						1810 8.46	Jul 18 Jul 18		d6680 f10.0		5 1981 5 1981
	RUNOFF (A			103300			39770	Jul 10		49420		3 1701
	ENT EXCE			246			93			129		
	ENT EXCEE			65 34			42 5.5			31 4.8)	
	ENT EXCER	כענ		34			5.5			4.0)	

e Estimated

Average discharge for 37 years (water years 1923-31, 1949-76), 116 ft³/s; 84040 acre-ft/yr, prior to

Average discharge for 37 years (Water Years 1923-31, 1949-76), 116 ft /s, 64040 acre-ft/yr, prior to completion of Trinidad Reservoir.

Maximum daily discharge for period of record, 46300 ft³/s, May 20, 1955.

No flow at times in 1924-25, 1927, 1949, and 1974.

From rating curve extended above 4,460 ft³/s; 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.

Maximum gage height for statistical period, 12.00 ft, May 3, 1999.

07130000 JOHN MARTIN RESERVOIR AT CADDOA, CO

LOCATION.--Lat $38^{\circ}04^{\circ}05^{\circ}$, long $102^{\circ}56^{\circ}13^{\circ}$, in $NE^{1}/_{4}NW^{1}/_{4}$ sec.8, T.23 S., R.49 W., Bent County, Hydrologic Unit 11020009, in north parapet of 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 mi^2 , of which 785 mi^2 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 midnight 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 1999 resurvey used from Nov. 1, 1999) 603,500 acre-ft, at elevation 3,870.00 ft, top of spillway gates, of which 344,000 acre-ft between elevations 3780.00 ft, elevation of no contents, and 3851.87 ft, is reserved for flood control. Capacity at spillway crest, 222,400 acre-ft, at elevation 3,840.00 ft. Contents table shown is from the latest survey of 1999. 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, 450,000 acre-ft, May 6-15, 1999, maximum elevation, 3,860.45, May 9, 1999; no contents at times many years.

EXTREMES (AT 2400) FOR CURRENT YEAR.--Maximum contents, 349,000 acre-ft, Feb. 21-22, maximum elevation, 3,852.29 ft, Feb. 22; minimum contents, 122,000 acre-ft, Sept. 30, minimum elevation, 3,826.58 ft, Sept. 30.

Capacity table (elevation, in feet, and contents, in acre-feet)

3,785.0	235	3,820.0	86,400
3,790.0	2,410	3,830.0	144,000
3,795.0	8,300	3,840.0	222,000
3,800.0	17,800	3,850.0	323,000
3.810.0	46.200	3.860.0	448.000

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	326000	324000	326000	335000	344000	347000	338000	324000	300000	233000	187000	139000
2	325000	324000	326000	335000	344000	347000	338000	323000	299000	231000	185000	139000
3	325000	324000	326000	336000	343000	347000	338000	322000	297000	229000	183000	138000
4	325000	325000	327000	336000	343000	347000	338000	322000	296000	227000	181000	137000
5	325000	325000	327000	336000	343000	347000	338000	321000	295000	225000	179000	136000
6	325000	325000	327000	336000	344000	347000	338000	321000	294000	223000	176000	136000
7	326000	325000	328000	337000	344000	347000	338000	320000	293000	221000	174000	135000
8	326000	325000	328000	337000	344000	346000	338000	319000	290000	218000	172000	135000
9	326000	325000	328000	337000	344000	345000	339000	318000	288000	216000	169000	134000
10	326000	325000	328000	338000	344000	344000	339000	318000	285000	214000	167000	134000
11 12 13 14 15	326000 326000 326000 326000 326000	325000 325000 324000 324000 324000	329000 329000 330000 330000 330000	338000 338000 338000 339000 339000	345000 345000 346000 347000 347000	343000 342000 342000 342000 341000	338000 338000 337000 337000 336000	316000 316000 315000 314000 314000	282000 279000 276000 273000 271000	212000 210000 208000 206000 205000	165000 163000 162000 160000 159000	133000 132000 132000 131000
16	326000	324000	330000	339000	347000	341000	335000	313000	268000	203000	157000	130000
17	326000	324000	330000	340000	348000	341000	334000	313000	266000	202000	156000	130000
18	326000	324000	331000	340000	348000	340000	334000	311000	263000	200000	155000	129000
19	326000	324000	331000	340000	348000	340000	333000	311000	260000	200000	153000	129000
20	326000	324000	331000	341000	348000	340000	332000	310000	258000	198000	152000	128000
21	326000	324000	332000	341000	349000	339000	331000	310000	256000	197000	151000	128000
22	326000	324000	332000	341000	349000	339000	330000	309000	253000	197000	149000	127000
23	326000	324000	332000	341000	348000	339000	330000	308000	251000	195000	149000	127000
24	326000	324000	333000	342000	348000	339000	329000	308000	249000	194000	148000	127000
25	326000	324000	333000	342000	348000	339000	328000	306000	246000	194000	146000	126000
26 27 28 29 30 31	325000 325000 325000 325000 325000 325000	325000 324000 325000 325000 325000	333000 333000 334000 334000 335000	342000 343000 343000 344000 344000 344000	348000 347000 348000 348000 	339000 339000 338000 338000 338000 338000	327000 326000 325000 324000 324000	306000 304000 304000 303000 302000 301000	244000 242000 240000 237000 235000	194000 193000 192000 191000 190000 188000	145000 144000 143000 142000 141000	126000 125000 124000 123000 122000
MEAN	326000	324000	330000	339000	346000	342000	334000	313000	270000	207000	160000	131000
MAX	326000	325000	335000	344000	349000	347000	339000	324000	300000	233000	187000	139000
MIN	325000	324000	326000	335000	343000	338000	324000	301000	235000	188000	140000	122000

CAL YR 1999 MEAN 334000 MAX 450000 MIN 272000 WTR YR 2000 MEAN 285000 MAX 349000 MIN 122000

07130500 ARKANSAS RIVER BELOW JOHN MARTIN RESERVOIR, CO

LOCATION.--Lat $38^{\circ}03^{\circ}59^{\circ}$, long $102^{\circ}55^{\circ}55^{\circ}$, in $NW^{1}/_{4}NE^{1}/_{4}$ 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 mi^2 , of which 785 mi^2 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 for estimated daily discharges, which are poor. Natural flow of stream affected by diversions upstream for irrigation of about 438,000 acres and storage reservoirs for flood control. Flow completely regulated by John Martin Dam (station 07130000) 0.2 mi upstream since Oct. 1948.

DISCHARGE	E, CUBIO	C FEET PER				1999 TO	SEPTEMBE	R 2000		
NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
263 225 203 208 217	3.8 3.7 3.7 3.8 3.9	3.8 3.7 3.8 4.0 3.8	231 249 248 e249 e249	328 403 335 267 266	358 358 344 331 345	572 527 503 508 535	552 789 1000 1010 1060	1090 1090 987 892 1010	1010 998 985 1130 1230	428 423 422 422 377
220 220 211 234 253	4.1 4.1 4.1 4.2 4.2	3.7 3.8 3.9 3.8 3.8	e250 520 725 670 283	391 416 508 736 963	358 369 376 377 450	543 543 554 574 589	1140 1190 1300 1420 1480	1100 1180 1230 1230 1230	1230 1200 1220 1300 1230	329 312 308 308 308
252 253 252 252 253	4.2 e4.2 e4.5 4.6 4.6	3.8 3.6 3.7 3.8 3.8	52 49 49 49	633 398 383 388 367	504 547 612 664 681	581 520 465 464 443	1480 1480 1390 1360 1330	1150 991 943 955 967	1020 899 894 892 889	323 308 293 293 285
253 228 211 201 197	e4.5	3.7	49 155 238 242 238	344 344 344 343 343	679 678 672 666 661	446 458 452 458 467	1340 1350 1350 1360 1320	1010 1100 993 874 836	888 589 625 767 764	280 280 280 250 221
95	4.5 e4.5 e4.5 e4.4 e4.3	3.8 3.8 3.8 3.8 3.8	236 421 553 413 319	333 311 270 230 221	658 660 660 643 612	465 486 517 545 555	1260 1250 1250 1250 1240	755 711 709 502 315	764 748 735 735 699	215 213 213 213 201
	e4.2 e4.1 4.1 4.2 4.0 3.9	3.7 3.9 15 32 32 125	318 319 234 178	221 221 285 365 379 373	588 598 607 607 606	557 558 560 562 556 550	1240 1250 1250 1200 1120	289 300 499 638 640 846	675 676 651 635 515 417	339 540 536 561 578
	130.4	306.1 9.87 125 3.6 607	7835 270 725 49 15540	11709 378 963 221 23220	16269 542 681 331 32270	16113 520 589 443 31960	37011 1234 1480 552 73410	27062 873 1230 289 53680	27010 871 1300 417 53570	10059 335 578 201 19950
26.8 217 1966 .85	DATA FO 17.5 317 1998 .64 1977	OR WATER Y. 20.4 725 1998 .62 1977	EARS 1949 24.2 477 1966 .75 1977	- 2000, 56.0 498 1998 1.06 1980	431 1174 1987 2.43 1973	YEAR (WY) 484 2576 1987 34.2 1975	600 2665 1987 52.0 1954	709 2895 1995 86.1 1963	574 2127 1965 22.6 1960	327 1007 1984 6.69 1974
MEAN EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS		249475.6 683 3320 2.5 2.6 494800 2670 233	Jun 6 Jun 28 Feb 14	F	165416.5 452 1480 3.6 3.7 1530 4.46 328100 1120 341	Jun 10 Jan 12 Jan 12 Jun 12		a291 745 82.5 3830 b.36 .36 c4100 d5.75 210500 885 61	Aug 2 Dec 2 Dec 2 Aug 2	1987 1964 25 1965 25 1979 25 1979 25 1965 25 1965
	NOV 263 225 203 208 217 220 220 211 234 253 252 253 252 253 252 253 258 211 201 197 196 178 132 95 89 81 75 76 76 76 33 5637 188 263 33 11180 ONTHLY MEAN 26.8 217 1966 1965 1977	NOV DEC 263 3.8 225 3.7 203 3.7 208 3.8 217 3.9 220 4.1 221 4.1 211 4.1 234 4.2 253 4.2 252 4.2 252 2.5 252 2.6 253 4.7 252 4.2 252 2.6 253 4.6 253 4.6 253 4.6 253 4.6 253 4.6 253 4.6 253 4.6 253 4.7 201 24.5 201 24.5 201 24.5 201 24.5 201 24.5 201 24.5 201 24.5 201 24.5 201 24.5 201 24.5 201 24.5 201 24.5 201 24.5 201 24.5 201 24.5 201 24.5 201 25.6 201 26.5 201 27 201 26.5 20	NOV DEC JAN 263 3.8 3.8 225 3.7 3.7 203 3.7 3.8 208 3.8 4.0 217 3.9 3.8 220 4.1 3.7 220 4.1 3.8 211 4.1 3.8 211 4.1 3.9 234 4.2 3.8 253 4.2 3.8 252 4.2 3.8 252 4.2 3.8 252 4.2 3.8 252 4.2 3.8 252 4.3 3.6 252 4.6 3.8 253 4.6 3.8 253 4.6 3.8 254 4.2 3.7 255 4.6 3.8 257 4.6 3.8 258 4.1 3.7 201 24.5 3.7 201 24.5 3.7 201 24.5 3.7 201 24.5 3.8 196 4.5 3.8 178 24.5 3.8 179 24.5 3.8 179 24.5 3.8 170 3.8	DAILY NOV DEC JAN FEB 263 3.8 3.8 231 225 3.7 3.7 249 203 3.7 3.8 248 208 3.8 4.0 e249 217 3.9 3.8 e249 220 4.1 3.7 e250 220 4.1 3.8 520 211 4.1 3.9 725 234 4.2 3.8 670 253 4.2 3.8 283 252 4.2 3.8 670 253 4.2 3.8 670 253 4.2 3.8 49 252 4.6 3.8 49 252 4.6 3.8 49 252 4.6 3.8 49 253 4.6 3.8 49 253 4.6 3.8 49 253 4.6 3.8 49 253 4.6 3.8 49 253 4.1 3.7 238 201 e4.2 3.7 242 197 4.5 3.8 238 196 4.5 3.7 242 197 4.5 3.8 238 196 4.5 3.8 236 178 e4.5 3.8 421 132 e4.5 3.8 38 196 4.5 3.8 236 178 e4.5 3.8 319 81 e4.2 3.7 318 89 e4.3 3.8 319 81 e4.2 3.7 318 89 e4.3 3.8 319 81 e4.2 3.7 318 75 e4.1 3.9 319 76 4.1 15 234 76 4.2 32 77 31 30.4 306.1 7835 33 4.0 32 3.9 125 5637 130.4 306.1 7835 188 4.21 9.87 270 263 4.6 125 725 33 3.7 3.6 49 1180 259 607 15540 ONTHLY MEAN DATA FOR WATER YEARS 1949 26.8 17.5 20.4 24.2 217 317 725 477 1966 1998 1998 1966 .85 .64 .62 .75 1977 1977 1977 1977 ICS FOR 1999 CALENDAR YEAR EAN	NOV DEC JAN FEB MAR 263 3.8 3.8 231 328 225 3.7 3.7 249 403 203 3.7 3.8 248 335 208 3.8 4.0 e249 267 217 3.9 3.8 e249 266 220 4.1 3.7 e250 391 220 4.1 3.8 520 416 211 4.1 3.9 725 508 234 4.2 3.8 670 736 253 4.2 3.8 670 736 253 4.2 3.8 670 736 253 4.2 3.8 670 736 253 4.2 3.8 670 736 252 4.2 3.8 670 736 253 4.2 3.8 670 736 253 4.2 3.8 49 398 252 4.6 3.8 49 388 252 4.6 3.8 49 388 253 4.6 3.8 49 388 253 4.4 3.7 49 383 252 4.6 3.8 49 388 253 4.4 3.7 155 344 228 4.4 3.7 155 344 221 e4.5 3.7 238 344 201 e4.2 3.7 242 343 197 4.5 3.8 238 343 196 4.5 3.8 238 343 196 4.5 3.8 236 333 178 e4.5 3.8 421 311 132 e4.5 3.8 319 221 81 e4.2 3.7 318 221 75 e4.1 3.9 319 221 81 e4.2 3.7 318 221 75 e4.1 3.9 319 221 81 e4.2 3.7 318 221 75 e4.1 3.9 319 221 81 e4.2 3.7 318 221 75 e4.1 3.9 319 221 81 e4.2 3.7 318 221 75 e4.1 3.9 319 221 81 e4.2 3.7 318 221 75 e4.1 3.9 319 221 81 e4.2 3.7 318 221 75 e4.1 3.9 319 221 81 e4.2 3.7 318 221 75 e4.1 3.9 319 221 81 e4.2 3.7 318 221 76 4.1 15 234 285 76 4.2 32 178 365 33 3.0 32 379 263 4.6 125 725 963 33 3.7 3.6 49 221 1180 259 607 15540 23220 ONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, 26.8 17.5 20.4 24.2 56.0 217 317 725 477 498 85 .64 .62 .75 1.06 683 MEAN EAN EAN EAN EAN EAN EAN EAN EAN EAN	NOV DEC JAN FEB MAR APR 263 3.8 3.8 231 328 358 225 3.7 3.7 249 403 358 203 3.7 3.8 248 335 344 208 3.8 4.0 e249 267 331 217 3.9 3.8 e249 266 345 217 3.9 3.8 e249 266 345 220 4.1 3.7 e250 391 358 220 4.1 3.8 520 416 369 211 4.1 3.9 725 508 376 234 4.2 3.8 670 736 377 253 4.2 3.8 283 963 450 252 4.2 3.8 52 633 504 253 e4.2 3.6 49 398 547 252 e4.5 3.7 49 383 612 252 4.6 3.8 49 388 664 253 4.6 3.8 49 388 664 253 4.6 3.8 49 388 664 253 4.6 3.8 49 387 662 253 4.4 3.7 155 344 678 211 e4.5 3.7 238 344 679 228 4.4 3.7 155 344 678 211 e4.5 3.7 238 344 672 201 e4.2 3.7 242 343 666 197 4.5 3.8 238 343 661 196 4.5 3.8 238 343 661 196 4.5 3.8 49 344 679 211 e4.5 3.7 242 343 666 197 4.5 3.8 236 333 688 178 e4.5 3.8 421 311 660 197 4.5 3.8 236 333 658 178 e4.5 3.8 421 311 660 198 e4.5 3.8 421 311 660 198 e4.5 3.8 421 311 660 198 e4.3 3.8 431 220 643 89 e4.3 3.8 431 220 643 89 e4.3 3.8 421 311 660 132 e4.5 3.8 421 311 660 132 e4.5 3.8 421 311 660 132 e4.5 3.8 421 311 660 133 4.0 32 379 606 134 64.2 3.7 318 221 588 178 e4.5 3.8 421 311 660 132 e4.5 3.8 421 311 660 133 4.0 32 379 606 143 33 3.7 3.6 49 221 538 1180 221 598 76 4.1 1.9 87 270 378 542 263 3.6 4.6 125 725 963 681 33 3.7 3.6 49 221 331 1180 259 607 15540 2320 32270 ONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER 1966 198 1998 1998 1966 1998 1977 1977 1977 1977 1977 1980 1973 ICS FOR 1999 CALENDAR YEAR EAN EAN EAN EAN EAN EAN 249475.6 683 681 1977 1977 1977 1977 1980 1973 ICS FOR 1999 CALENDAR YEAR EAN EAN EAN 249475.6 683 681 1977 1977 1977 1977 1980 1973 ICS FOR 1999 CALENDAR YEAR EAN EAN EAN EAN EAN 249475.6 683 683 681 336 EEN EAN 3320 Jun 6 1480 AN 2.5 Jan 28 3.6 79 328100 EDS 2670 11200 EDS 2681 333 343 343 341	NOV DEC JAN FEB MAR APR MAY 263 3.8 3.8 231 328 358 572 225 3.7 3.7 249 403 358 527 203 3.7 3.8 248 335 344 503 208 3.8 4.0 e249 267 331 508 217 3.9 3.8 e249 267 331 508 220 4.1 3.7 e250 391 358 543 220 4.1 3.8 520 416 369 543 221 4.1 3.8 520 416 369 543 221 4.1 3.8 520 416 369 543 221 4.2 3.8 670 736 377 574 253 4.2 3.8 670 736 377 574 253 4.2 3.8 670 736 377 574 253 4.2 3.8 670 736 377 574 253 4.2 3.8 670 736 377 574 253 4.2 3.8 670 736 377 574 253 4.2 3.8 852 633 504 581 252 4.2 3.8 649 398 547 520 252 4.5 3.7 49 383 612 465 252 4.6 3.8 49 386 664 464 253 4.6 3.8 49 386 664 464 253 4.4 3.8 49 344 679 446 228 4.4 3.7 155 344 679 446 228 4.4 3.7 242 343 666 458 2211 e4.5 3.7 38 238 343 661 467 196 4.5 3.8 421 311 660 486 197 4.5 3.8 238 343 661 467 196 4.5 3.8 421 311 660 486 178 e4.5 3.8 421 311 660 517 95 e4.4 3.8 413 230 643 545 89 e4.3 3.8 319 221 598 558 81 e4.2 3.7 318 221 598 558 188 4.21 9.87 270 373 550 5637 130.4 306.1 7835 11709 16269 16113 188 4.21 9.87 270 378 542 520 266 4.1 15 234 285 607 560 33 3.0 4.0 32 379 606 556 33 3.7 31.9 325 379 606 556 33 3.7 31.9 325 379 606 556 33 3.7 31.9 325 379 606 556 33 3.7 31.9 325 379 606 556 33 3.7 31.9 325 379 606 556 33 3.7 31.7 319 1977 1977 1977 1977 1977 1980 1973 1975 ICS FOR 1999 CALENDARY FEAR 51949 - 2000, WATER YEAR (WY) 26.8 17.5 20.4 24.2 56.0 431 484 217 317 725 477 498 1174 2576 1966 1998 1998 1966 1998 1987 1987 1050 1998 1998 1966 1998 1987 1987 1050 1998 1996 1998 1996 1998 1996 1998 1997 1997	NOV DEC JAN FEB MAR APR MAY JUN	NOV DEC JAN FEB MAR APR MAY JUN JUL 263 3.8 3.8 231 328 358 572 552 1090 225 3.7 3.7 249 403 358 527 789 1090 203 3.7 3.8 248 335 344 503 1000 987 208 3.8 4.0 e249 267 331 508 1010 892 217 3.9 3.8 e249 266 345 535 1060 1010 220 4.1 3.7 e250 391 358 543 1140 1100 220 4.1 3.8 520 416 369 543 1190 1180 221 4.1 3.8 520 416 369 543 1190 1180 222 4.1 3.8 725 508 376 554 1300 1230 234 4.2 3.8 670 736 377 574 1420 1230 253 4.2 3.8 283 963 450 589 1460 1230 252 4.2 3.8 52 633 504 581 1480 1150 252 4.2 3.8 49 389 547 520 1480 991 252 4.6 3.8 49 389 6547 465 1390 943 252 4.6 3.8 49 388 664 464 1360 995 253 4.4 3.8 49 386 664 464 1360 995 253 4.4 3.8 49 344 679 446 1340 1010 228 4.4 3.8 49 344 679 446 1340 1010 2211 e4.5 3.7 238 344 672 452 1350 993 201 e4.2 3.7 242 343 666 458 1360 874 197 4.5 3.8 236 333 658 465 1260 751 196 4.5 3.8 236 333 658 645 1260 751 197 4.5 3.8 236 333 658 645 1260 751 198 64.1 3.9 318 221 588 557 1240 836 196 4.5 3.8 236 333 658 645 1260 751 112 e4.5 3.8 236 333 658 645 1260 751 1132 e4.5 3.8 236 333 658 660 457 1320 836 196 4.5 3.8 236 333 658 465 1260 755 118 e4.1 3.9 319 221 588 557 1240 315 251 34 4.1 3.8 49 344 679 446 1340 1010 228 4.4 3.8 49 367 681 467 1320 836 196 4.5 3.8 236 333 658 465 1260 755 178 e4.1 3.9 319 221 512 555 1240 315 196 4.5 3.8 236 333 658 465 1260 755 178 e4.1 3.9 319 221 512 588 557 1240 315 196 4.5 3.8 236 333 658 465 1260 755 197 6 4.1 3.9 319 221 598 558 1250 300 268 64.3 3.8 319 221 598 558 1250 300 276 4.1 15 234 285 607 560 1250 688 280 64.3 3.8 319 221 598 558 1250 300 281 64.2 3.7 36 49 398 1987 1987 1987 1987 1995 196 6 4.5 3.8 236 348 365 607 560 1250 688 268 7.7 5 20.4 24.2 56.0 431 484 600 709 268 85 17.5 20.4 24.2 56.0 431 484 600 709 270 348 548 548 548 548 548 548 548 548 548 5	NOV DEC JAN FEB MAR APR MAY JUN JUL AUG 263 3.8 3.8 23.8 231 328 358 572 552 1090 1010 263 3.8 3.8 249 403 358 577 789 1090 998 223 3.7 3.9 2.8 249 403 358 577 789 1090 998 223 3.7 3.9 3.8 e249 266 345 535 1000 997 195 2217 3.9 3.8 520 416 369 543 1190 1180 1230 2220 4.1 3.7 e250 391 358 543 1140 1100 1230 221 4.1 3.8 520 416 369 543 1190 1180 1200 221 4.1 3.8 670 736 377 574 1420 1230 1230 1220 223 4.2 3.8 670 736 377 574 1420 1230 1230 1220 225 4.2 3.8 670 736 377 574 1420 1230 1230 225 4.2 3.8 670 736 377 574 1420 1230 1300 225 4.2 3.8 670 736 377 574 1420 1230 1300 225 4.2 3.8 670 736 377 574 1420 1230 1300 225 4.2 3.8 670 736 377 574 1420 1230 1300 225 4.2 3.8 670 736 377 574 1420 1230 1300 225 4.2 3.8 670 786 404 581 1480 1150 1020 225 4.2 3.8 52 633 504 581 390 991 899 252 4.2 3.8 52 633 504 581 390 991 899 252 4.2 3.8 52 633 504 581 1480 1150 1020 253 4.6 3.8 49 367 681 443 1330 967 889 253 4.6 3.8 49 367 681 443 1330 967 889 253 4.4 3.8 49 367 681 443 1330 967 889 253 4.4 3.8 52 344 679 446 1340 1010 888 228 4.4 3.7 155 344 678 458 1350 993 625 221 4.5 3.7 238 344 672 452 1350 993 625 221 4.5 3.7 238 344 678 458 1350 993 625 221 4.5 3.7 238 344 678 458 1350 993 625 221 4.5 3.7 238 344 678 458 1350 993 625 221 4.5 3.8 238 343 661 467 1300 886 874 767 4.5 3.8 238 343 661 467 1300 886 874 767 4.5 3.8 238 343 661 467 1300 886 874 767 4.1 3.9 319 221 588 557 1240 289 675 75 44.1 3.9 319 221 588 557 1240 289 675 76 4.1 3.9 319 221 598 588 1250 300 676 76 4.2 32 77 27 37 37 37 37 37 37 37 37 37 37 37 37 37

Estimated.
 Average discharge for 5 years (water years 1939-43), 628 ft³/s, unadjusted; 455000 acre-ft/yr, during construction of John Martin Dam.
 No flow at times in 1945-47. Minimum daily prior to construction of John Martin Dam, 5 ft³/s, Jul 16, 1939.
 Maximum discharge for period of record, 40000 ft³/s, Apr 24, 1942, from rating curve extended above 12000 ft³/s on basis of flow-over-dam and critical-depth measurement of peak flow, gage height, 10.46 ft, site and datum then in use.

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 .--

NEMBER FOR PERSON OF MECONDUCTANCE: Maximum, 3,540 microsiemens, Feb. 26, 1986; minimum, 1,060 microsiemens, several days in 1995. WATER TEMPERATURE: Maximum, 27.9°C, June 10, 1989; minimum, 0.0°C, many days.

EXTREMES FOR CURRENT YEAR.-SPECIFIC CONDUCTANCE: Maximum, 2,320 microsiemens, Sept. 29-30; minimum, 1,600 microsiemens, Oct. 5.
WATER TEMPERATURE: Maximum, 24.8°C, Aug. 17; minimum, 1.4°C, Jan. 4, 7.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		DI	ECEMBER			JANUARY	
1 2 3 4 5	1690 1680 1680 1660 1680	1640 1650 1660 1610 1600	1670 1670 1680 1630 1650	1740 1730 1720 1730 1730	1720 1720 1720 1720 1720	1730 1720 1720 1720 1720	 	 	 	2060 2090 2110 2090 2040	1960 2050 2030 2020 2000	2000 2070 2070 2060 2020
6 7 8 9 10	1690 1690 1690 1690 1680	1670 1670 1670 1670 1650	1680 1680 1680 1670 1670	1720 1730 1740 1780 1780	1720 1710 1720 1740 1760	1720 1720 1720 1770 1770	1970 1990 1990	1910 1960 1940	1940 1970 1950	2060 2120 2050 2020 2050	1970 2010 2000 2000 2000	2000 2050 2030 2010 2020
11 12 13 14 15	1700 1700 1690 1690 1700	1670 1680 1680 1680 1680	1680 1690 1690 1690 1690	1820 1820 1820 1850 1870	1780 1770 1730 1750 1830	1790 1800 1770 1800 1840	2000 2040 2010	1970 2000 1980	1980 2020 2000	2080 2090 2110 	2030 2060 2050 	2050 2080 2070
16 17 18 19 20	1690 1710 1720 1710 1720	1670 1660 1700 1700 1700	1670 1680 1710 1710 1710	1870 1820 1810 1810 1760	1760 1740 1740 1750 1750	1800 1770 1770 1770 1760	1980 2030 2060	1940 1910 2040	1960 1950 2040	 2130	 2080	 2110
21 22 23 24 25	1710 1710 1700 1710 1720	1690 1670 1660 1680 1670	1700 1680 1680 1700 1700	1760 1780 1780 1780 1780	1750 1760 1760 1770 1770	1760 1770 1770 1770 1770	2040 	2000 	2010 	2140 2130 2130 2140 2140	2080 2100 2100 2110 2090	2110 2120 2120 2130 2110
26 27 28 29 30 31	1770 1790 1820 1820 1730 1740	1660 1770 1770 1700 1700 1710	1710 1780 1790 1740 1710 1730	1780 1780 1780 1800 1790	1770 1770 1770 1770 1770	1770 1770 1770 1780 1750	 2030 2040 2020	 1990 1990	 2010 2020 1980	2140 2130 2130 2050 1940 1930	2120 2110 2050 1940 1920 1870	2120 2120 2100 1990 1930 1900
MONTH	1820	1600	1690	1870	1710	1760						

07130500 ARKANSAS RIVER BELOW JOHN MARTIN RESERVOIR, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

							•					
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	1870 1870 1870 	1860 1860 1860 	1870 1870 1870 	1930 1930 1930 1920 1920	1930 1920 1920 1920 1900	1930 1930 1920 1920 1910	2170 2120 2010 2000 2000	2120 2010 1990 1990 1990	2150 2060 2000 2000 2000	2050 2050 2030 2020 2010	2010 2010 2010 2010 1980	2030 2030 2020 2020 2020 2000
6 7 8 9 10	 2150 2220	 2060 2120	 2120 2170	1910 1880 1850 	1870 1850 1830 	1890 1860 1840 	2010 2010 2010 2010 2010	1990 1990 1990 2000 1990	2000 2000 2000 2000 2000	1990 1950 1950 1960 1960	1940 1910 1920 1920 1930	1970 1930 1940 1940 1950
11 12 13 14 15	2220 2220 2210 2180 2140	2200 2200 2180 2140 2120	2210 2210 2200 2160 2130	 	 	 	2000 2000 1990 1980 1990	1990 1970 1970 1970 1960	1990 1990 1980 1970 1980	1980 1970 2000 2020 2050	1940 1930 1920 1950 2010	1960 1950 1960 1990 2030
16 17 18 19 20	2120 2110 1970 1980 1970	2110 1970 1950 1960 1930	2120 2050 1960 1970 1950		 		2010 2040 2030 2060 2050	1980 2000 2020 2030 2000	1980 2020 2030 2040 2030	2080 2090 2090 2090 2090	2050 2070 2060 2050 2050	2070 2080 2080 2070 2070
21 22 23 24 25	1930 1920 1900 1910 1900	1920 1900 1890 1890 1890	1920 1910 1900 1900 1900	 	 	 	2030 2040 2020 2000 2010	2020 2020 1970 1970 1980	2030 2030 2000 1990 2000	2090 2080 2090 2070 2090	2050 2040 2000 2000 2070	2070 2070 2060 2050 2070
26 27 28 29 30 31	1900 1900 1920 1930 	1890 1890 1890 1900 	1900 1900 1900 1910 	 	 	 	2010 2030 2040 2050 2050	1990 1990 2010 2010 2010	2000 2010 2020 2030 2030	2090 2080 2080 2070 2050 2040	2080 2060 2040 2030 2010 2020	2080 2080 2060 2050 2030 2030
MONTH							2170	1960	2010	2090	1910	2020
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN		MIN AUGUST	MEAN		MIN SEPTEMBE	
DAY 1 2 3 4 5	MAX 2050 2050 2050 2040 2050		MEAN 2040 2040 2030 2030 2030	MAX 2070 2070 2090 2090 2080		MEAN 2050 2050 2060 2070 2070			MEAN 2180 2190 2200 2200			
1 2 3 4	2050 2050 2050 2040	JUNE 2020 2020 2020 2020 2020	2040 2040 2030 2030	2070 2070 2090 2090	JULY 2030 2030 2030 2040	2050 2050 2060 2070	 2190 2200 2210	AUGUST 2160 2180 2200	 2180 2190 2200	2250 2250 2250 2260	2210 2220 2200 2210	2230 2240 2240 2240 2240
1 2 3 4 5 6 7 8 9	2050 2050 2050 2040 2050 2020 2020 2050	JUNE 2020 2020 2020 2020 2010 2000 2010	2040 2040 2030 2030 2030 2010 2010 2030	2070 2070 2090 2090 2080 2140 2140 2110	JULY 2030 2030 2030 2040 2060 2030 2100 2070 2050	2050 2050 2060 2070 2070 2070 2060 2130 2090 2080	2190 2200 2210 2210 2210 2210 2210 2210	2160 2180 2200 2190 2160 2190 2200 2180	2180 2190 2200 2200 2200 2200 2200 2200 220	2250 2250 2250 2260 2260 2250 2250 2240 2240	2210 2220 2200 2210 2210 2220 2220 2200 2210 2200 2210	2230 2240 2240 2240 2240 2240 2240 2240
1 2 3 4 5 6 7 8 9 10	2050 2050 2050 2040 2050 2020 2020 2020	JUNE 2020 2020 2020 2020 2010 2000 2000 2010 2050	2040 2040 2030 2030 2030 2010 2010 2010 2080	2070 2070 2090 2090 2080 2140 2140 2110 2080 2110 2130 2120 2120	2030 2030 2040 2040 2060 2070 2050 2050 2050 2050 2060 2070 2060	2050 2050 2050 2060 2070 2070 2080 2090 2080 2090 2080 2090 2090 2080	2210 2210 2210 2210 2210 2210 2210 2210	AUGUST 2160 2200 2190 2160 2190 2200 2190 2180 2190 2180 2190 2190 2170	2180 2190 2200 2200 2200 2200 2200 2200 220	2250 2250 2250 2260 2260 2250 2250 2240 2250 2240 2250 2240 2250 2240 2250	2210 2220 2200 2210 2220 2210 2220 2210 2210 2210 2220 2210 2220 2220 2220 2230	2230 2240 2240 2240 2240 2240 2240 2230 223
1 2 3 4 5 6 7 8 9 10 11 12 13 13 14 15	2050 2050 2050 2050 2040 2050 2020 2050 2100 2060 2020 2010 2010 2020	JUNE 2020 2020 2020 2020 2020 2010 2000 2010 2050 2020 1970 1970 1980	2040 2040 2030 2030 2030 2010 2010 2030 2080 2030 1990 1980 1990 2000	2070 2070 2090 2090 2080 2140 2110 2110 2080 2120 2120 2120 2200 2190 2160 2160	JULY 2030 2030 2030 2040 2060 2070 2050 2050 2050 2050 2060 2060 2060 206	2050 2050 2060 2070 2070 2070 2080 2090 2090 2090 2090 2080 2090 2170 2180 2150 2130	210 2210 2210 2210 2210 2210 2210 2210	AUGUST 2160 2180 2290 2190 2190 2190 2190 2190 2190 2180 2170 2180 2140 2190 2150 21200 2200	2180 2190 2200 2200 2200 2200 2200 2200 220	2250 2250 2250 2260 2260 2250 2240 2250 2240 2250 2240 2250 2240 2250 2240 2250 2240 2250 2240 2250 2270	2210 2220 2210 2220 2210 2220 2220 2220	2230 2240 2240 2240 2240 2240 2240 2230 223
1 2 3 4 5 5 6 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	2050 2050 2050 2040 2050 2020 2020 2020	JUNE 2020 2020 2020 2020 2010 2000 2010 2050 2020 1970 1970 1970 1990 1990 1990 2010 2010 2010 2010 201	2040 2040 2030 2030 2030 2010 2010 2010 2010 2030 1990 1980 1990 2000 2010 2010 2010 2010 2020 2030 203	2070 2070 2090 2090 2080 2140 2110 2110 2120 2120 2120 2120 212	2030 2030 2040 2040 2060 2070 2050 2050 2050 2060 2060 2060 2130 2120 2120 2140 2130 2120 2140 2130 2120	2050 2050 2050 2070 2070 2070 2080 2130 2090 2080 2070 2080 2090 2090 2170 2180 2150 2130 2140 2140 2140 2140 2140	2210 2210 2210 2210 2210 2210 2210 2210	AUGUST 2160 2180 2200 2190 2160 2190 2180 2190 2180 2190 2180 2190 2170 2180 2190 2210 2200 2200 2200 2210 2210 221	2180 2200 2200 2200 2200 2200 2200 2200	2250 2250 2250 2260 2260 2250 2240 2240 2250 2240 2250 2240 2250 2240 2270 2260 2270 2270 2270 2270 2300 2300 2300 230	2210 2220 2220 2210 2220 2210 2220 2220	2230 2240 2240 2240 2240 2240 2240 2230 223
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 18 19 20 21 22 23 24 25 26 27 28 29	2050 2050 2050 2040 2050 2020 2020 2050 2100 2060 2020 2030 2030 2030 2030 2030 20	JUNE 2020 2020 2020 2020 2020 2010 2000 2010 2050 2020 1970 1970 1980 1990 2000 1990 2010 2010 2010 2010 201	2040 2040 2030 2030 2030 2010 2010 2030 2080 2030 1990 2000 2010 2010 2010 2010 2020 2030 203	2070 2070 2090 2090 2090 2080 2140 2110 2110 2130 2120 2120 2120 2120 2160 2150 2150 2150 2140 2140 2140 2150	JULY 2030 2030 2030 2040 2060 2070 2050 2050 2050 2050 2050 2120 2140 2120 2140 2130 2120	2050 2050 2050 2070 2070 2070 2070 2090 2090 2090 209	210 2210 2210 2210 2210 2210 2210 2210	AUGUST 2160 2180 2200 2190 2190 2190 2190 2190 2190 219	2180 2200 2200 2200 2200 2200 2200 2200	2250 2250 2250 2260 2260 2250 2240 2240 2250 2240 2250 2240 2270 2260 2270 2270 2270 2270 2270 227	2210 2220 2220 2220 2220 2220 2220 2220	2230 2240 2240 2240 2240 2240 2240 2230 223

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07130500 ARKANSAS RIVER BELOW JOHN MARTIN RESERVOIR, CO--Continued TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		TEMPER	RATURE,	WATER (DEG	. C), WA	TER YEAR	OCTOBER 1	999 TO S	SEPTEMBER	2000		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		D	ECEMBER			JANUARY	7
1	17.9	16.9	17.3	12.2	11.7	11.9				7.0	3.1	4.7
2	17.5 16.9	16.7 16.2	17.0 16.6	12.1 12.1	11.2 11.2	11.6 11.5				6.7 4.6	3.8 1.8	5.2 3.7
4	16.9	16.0	16.3	12.0	11.1	11.4				4.8	1.4	2.9
5	16.9	15.8	16.2	11.9	11.2	11.4				4.2	2.2	3.1
6 7	16.6 16.3	15.4 15.3	16.0 15.8	11.7 11.7	11.0 10.9	11.3 11.2				4.7 4.7	2.5 1.4	3.3
8	16.1	15.3	15.6	11.7	11.0	11.2	5.5	3.5	4.5	4.9	1.6	3.2
9 10	16.3 16.3	15.2 15.1	15.6 15.6	11.1 11.0	10.5 10.3	10.8 10.6	6.1 5.4	3.5 3.3	4.6 4.3	5.0 5.3	2.1 2.5	3.3 3.8
11	16.3	15.2	15.6	10.9	10.2	10.5	5.8	4.0	4.7	6.1	2.2	4.2
12	16.3	15.1	15.5	11.0	10.2	10.5				7.1	3.3	5.2
13 14	16.1 16.2	15.1 15.0	15.4 15.5	10.9 11.0	10.3 10.3	10.5 10.6	3.8					
15	15.8	14.9	15.3	10.8 10.7 10.7	10.3	10.5	4.3	2.1	3.0			
16	15.1	14.5	14.8	10.8	10.2	10.4	4.8	2.3	3.4			
17 18	15.0 14.5	13.8 13.7	14.4 14.1	10.7	10.1 10.1	10.3 10.3	4.8	3.0	3.8			
19 20	14.4 14.5	13.7 13.5	14.0 13.9	10.4 10.3	9.7 9.6	10.0 9.8	 5.1	3.1	3.9	6.7	4.0	5.3
21 22	14.5 14.3	13.6 13.4	13.9 13.8	10.1 9.6	9.4 9.3	9.7 9.5	4.1	2.5	3.4	6.5 6.0	4.1 3.6	5.1 4.8
23 24	14.2 14.1	13.5 13.2	13.8 13.6	9.6 9.4	8.8 8.6	9.1 8.9				6.7 6.3		4.9 4.7
25	13.7	12.9	13.3	9.1	8.3	8.6				4.8	3.3	4.0
26	13.6	12.9	13.2	9.3	8.2	8.6				6.0	3.3	4.4
27 28	13.2 13.0	12.6 12.4	12.9 12.6	9.4 8.8	8.4	8.7 8.5				4.7 4.6	2.8	3.7 3.6
29	12.8	12.3	12.5	8.7	8.1	8.3	5.6	3.1	4.1	4.4	2.7	3.3
30 31	12.6 12.5	12.0 11.8	12.2 12.1				5.7 5.2	2.7 2.0	3.9 3.7	4.2 3.0	2.4 2.1	3.0 2.5
	17.9		14.7									
MONTH	17.9	11.8	14.7									
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.4	2.0	2.1	5.2	4.2	4.7	7.7	7.1	7.3	12.4	11.9	12.2
2	2.5	1.8	2.1	5.0	4.5	4.7	7.9	7.0	7.3	12.9	11.9	12.3
3 4	2.8	2.0	2.3	5.1 5.5	4.4 4.5	4.6 4.9	7.7 8.1	7.0 7.1	7.3 7.6	13.0 12.9	12.0 12.0	12.3 12.4
5				5.6	4.5	5.1	8.7	7.5	8.0	13.0	12.2	12.5
6				5.9	5.0	5.4	8.3	7.6	7.9	13.1	12.1	12.5
7 8				6.0 6.2	5.4 5.5	5.6 5.7	8.6 9.0	7.8 8.0	8.2 8.4	13.0 13.0	12.2 12.4	12.5 12.6
9 10	3.1	2.8	2.9	6.0 5.7	5.5 5.5	5.7	9.1	8.2	8.5	13.4	12.5	12.9
	4.3	2.8	3.3			5.6	9.2	8.4	8.8	13.5	12.6	13.0
11 12	3.1 3.9	2.7 2.8	2.9	6.1 6.1	5.3 5.3	5.6 5.6	9.2 9.3	8.5 8.6	8.8 8.8	16.3 14.4	12.9 13.6	14.3 14.1
13	4.3	2.9	3.4	6.2	5.5	5.8	10.0	8.6	9.3	14.5	13.4	13.9
14 15	5.2 5.0	2.7 3.2	3.6 3.9	6.4 6.3	5.7 5.8	5.9 6.0	9.8 9.6	9.1 9.1	9.4 9.4	15.2 15.3	13.8 14.3	14.5 14.7
16	4.8	3.0	3.8	6.5	5.8	6.1	10.2	9.3	9.7	14.9	14.4	14.6
17 18	3.6	3.1	3.3	6.7	5.8	6.2	10.2	9.4	9.7	16.2	14.3	15.1
19	3.5 3.7	2.9 2.9	3.1 3.2	6.5 6.8	6.1 5.9	6.3 6.3	11.0 11.3	9.6 10.3	10.3 10.8	15.1 15.4	14.5 14.5	14.7 14.8
20	3.3	2.9	3.1	6.5	6.0	6.2	11.1	10.6	10.8	15.3	14.4	14.8
21	3.8	2.8	3.3	6.3	6.1	6.2	11.2	10.5	10.8	15.5	14.6	14.9
22 23	3.7 4.4	3.3 3.5	3.4 3.9	6.3 6.9	6.2 6.3	6.3 6.5	11.2 11.3	10.6 10.6	10.7 10.9	15.4 15.4	14.6 14.6	14.9 14.9
24 25	4.8	3.9 3.9	4.3	7.4 7.4	6.3 6.4	6.7 6.8	11.8 11.8	11.0 11.0	11.3 11.4	15.2 15.2	14.6 14.7	14.8 14.9
26 27	4.6 4.6	4.0 3.8	4.2 4.1	7.7 7.8	6.6 6.6	7.0 7.0	11.8 11.9	$\frac{11.2}{11.1}$	$\frac{11.4}{11.4}$	15.4 15.5	14.7 14.7	14.9 15.0
28 29	4.7 5.0	3.9 4.3	4.3	7.4 7.7	6.6 7.0	7.0 7.3	12.0 12.3	11.3 11.5	11.6 11.9	15.5 15.6	14.7 14.8	15.0 15.1
30				7.2	7.0	7.1	12.3	12.1	12.1	15.6	14.8	15.1
31				7.1	7.0	7.1	===			16.1	15.0	15.4
MONTH				7.8	4.2	6.0	12.3	7.0	9.7	16.3	11.9	14.1

07130500 ARKANSAS RIVER BELOW JOHN MARTIN RESERVOIR, CO--Continued
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	IR.
1 2 3 4 5	15.8 15.6 15.8 15.7 15.7	15.2 15.1 15.2 15.2 15.2	15.5 15.3 15.4 15.4 15.4	20.3 20.3 20.7 21.1 20.8	19.9 19.9 20.2 20.3 20.4	20.1 20.1 20.4 20.6 20.6	23.4 23.5 23.8 24.0	22.9 23.0 23.3 23.4	23.1 23.2 23.6 23.6	24.0 23.5 23.6 23.8 23.7	23.1 23.0 22.9 22.9 22.8	23.5 23.2 23.2 23.3 23.2
6 7 8 9 10	15.8 15.8 15.8 	15.4 15.5 15.5 	15.6 15.6 15.6 	20.8 20.8 21.2 21.1 21.3	20.4 20.3 20.5 20.7 20.8	20.5 20.5 20.9 20.9 21.0	23.9 24.0 24.0 24.1 24.4	23.4 23.5 23.6 23.7 23.8	23.7 23.7 23.8 23.9 24.1	23.6 23.4 23.4 23.5 23.5	22.7 22.6 22.6 22.6 22.6	23.0 22.9 22.8 22.9 22.9
11 12 13 14 15	 19.4 19.5	 18.3 18.9	 18.9 19.1	21.7 21.4 21.8 21.6 21.8	20.8 20.9 21.2 21.2 21.2	21.3 21.2 21.4 21.4 21.4	24.3 24.2 24.6 24.7 24.6	23.7 23.8 23.9 24.2 24.1	24.1 24.0 24.3 24.4 24.3	23.5 23.1 23.0 22.7 22.5	22.6 22.3 22.2 22.0 21.8	22.9 22.7 22.5 22.3 22.0
16 17 18 19 20	19.7 19.4 19.6 19.9 19.7	19.4 19.2 19.2 19.4 19.4	19.5 19.3 19.3 19.6 19.5	21.7 21.9 22.6 22.4 22.5	21.2 21.5 21.6 21.7 21.8	21.4 21.7 22.0 22.1 22.1	24.6 24.8 24.4 24.4 24.3	24.2 24.1 24.1 23.8 23.8	24.4 24.4 24.2 24.1 23.9	22.5 22.1 21.7 21.9 20.9	21.5 21.2 21.0 20.9 20.1	21.9 21.6 21.3 21.3 20.6
21 22 23 24 25	19.8 19.8 19.8 19.9	19.3 19.5 19.6 19.5 19.5	19.5 19.6 19.7 19.6 19.7	22.8 22.9 23.2 23.4 23.4	22.0 22.2 22.4 22.5 22.6	22.4 22.5 22.8 22.9 23.1	24.4 24.6 24.4 24.2 24.4	23.7 24.0 23.8 23.7 23.7	24.0 24.2 24.1 23.9 24.0	20.7 20.7 19.7 19.0 18.6	19.7 19.7 19.0 18.1 17.5	20.1 20.1 19.4 18.6 18.0
26 27 28 29 30 31	20.0 19.9 20.0 20.6 20.5	19.5 19.5 19.5 19.8 20.0	19.8 19.7 19.8 20.2 20.2	 	 	 	24.4 24.5 24.5 24.3 24.0 24.1	23.7 23.7 23.7 23.6 23.5 23.4	24.0 24.1 24.0 23.9 23.7 23.7	18.0 17.2 16.9 16.7 16.9	16.9 16.6 16.4 16.2 16.3	17.3 16.9 16.6 16.4 16.5
MONTH										24.0	16.2	21.0

07133000 ARKANSAS RIVER AT LAMAR, CO

LOCATION.--Lat $38^{\circ}06^{\circ}21^{\circ}$, long $102^{\circ}37^{\circ}05^{\circ}$, 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 mi^2 , of which 950 mi^2 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 (subsequent to regulation of flow by John Martin Reservoir). 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 and crest stage gage. 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 site 450 ft downstream, at datum 4.00 ft lower. Nov. 18, 1982 to Mar. 17, 1987, at site 75 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records fair. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		DISCHARO	E, CUBIC	C FEET PE		VATER YE MEAN VA	AR OCTOBER LUES	1999 TO	SEPTEMB!	ER 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	36 35	22 22	82 68	42 45	157 208	111 63	100 101	129 84	29 47	572 647	650 668	49 45
3	36	22	63	49	215	66	87	64	328	667	646	44
4	32	23	62	46	210	63	79	45	345	461	683	41
5	28	22	59	48	214	49	73	34	372	466	844	34
6 7	35	22	58	46	232	53	66	33	496	515	854	30
8	29 31	22 23	57 55	45 44	274 574	89 152	57 56	32 32	590 653	548 632	880 849	26 32
9	29	25	56	44	654	161	49	37	762	640	884	27
10	27	29	54	43	537	505	39	36	1100	653	875	23
11	25	29	53	41	205	429	39	54	1140	774	706	22
12 13	26 29	29 32	53 52	42 42	173 152	107 82	36 37	51 74	1160 943	710 651	476 446	20 20
14	29	31	50	44	140	64	31	75	815	611	428	19
15	30	31	56	54	126	56	41	66	767	646	411	18
16	33	29	61	57	114	71	64	50	744	664	402	17
17	42	27	53	58	100	62	59	43	787	771	352	16
18 19	35 31	27 29	56 56	57 57	181 219	60 66	53 35	41 41	797 767	888 667	95 280	16 16
20	32	27	54	56	226	59	35	43	718	600	276	18
21	32	26	51	53	218	64	35	39	662	558	286	15
22	33	26	47	55	248	76	32	35	615	461	296	14
23 24	28 25	25 38	44 43	57 58	424 408	77 80	66 94	30 31	613 599	465 395	276 282	14 14
25	25	60	45	56	285	64	79	31	591	163	279	13
26	25	59	45	56	281	57	62	31	604	71	237	12
27	25	55	42	55	264	51	54	32	639	65	241	211
28 29	24 27	49 48	46 46	57 58	177 149	42 41	49 38	30 30	654 650	70 342	232 201	275 298
30	30	56	43	73	142	41	423	29	633	383	181	350
31	26		45	76		77		31		422	69	
TOTAL MEAN	930 30.0	965 32.2	1655 53.4	1614 52.1	7365 254	3038 98.0	2069 69.0	1413 45.6	19620 654	16178 522	14285 461	1749 58.3
MAX	42	60	82	76	654	505	423	129	1160	888	884	350
MIN	24	22	42	41	100	41	31	29	29	65	69	12
AC-FT	1840	1910	3280	3200	14610	6030	4100	2800	38920	32090	28330	3470
					YEARS 1949							
MEAN MAX	36.6 233	21.5 117	30.3 350	41.2 796	42.4 507	43.0 516	169 1089	207 2143	287 2087	314 2457	223 1547	92.7 689
(WY)	1949	1998	1998	1998	1966	1998	1987	1987	1987	1995	1965	1965
MIN	.84	1.81	.56	.47	.73	1.11	5.90	6.41	3.80	10.2	10.9	1.37
(WY)	1978	1978	1978	1978	1965	1965	1995	1963	1954	1964	1974	1974
ANNUAL	Y STATISTI	.CS	FOR 1	170878	NDAR YEAR	r	OR 2000 WAS 70881	TER YEAR		WATER	YEARS 1949	- 2000
ANNUAL				468			194			a126		
	ANNUAL ME									537 27.0		1987 1975
	ANNUAL ME			2700	Jun 7		1160	Jun 12		b25000		L8 1965
	DAILY MEA			11	Mar 12		12	Sep 26		c.(00 Dec	5 1953
	SEVEN-DAY CANEOUS PE			13	Mar 6		14 1210	Sep 20 Jul 18		d73800		LO 1965 L8 1965
INSTANT	ANEOUS PE	EAK STAGE					8.33	Jul 18		f16.4		L8 1965
	RUNOFF (A			338900 2220			140600 648			90970 423		
	CENT EXCER			2220 52			57			423 24		
90 PERC	CENT EXCEE	EDS		22			26			4.2		
2 71101	ana diech	argo for 3	n veare	(water in	oare 1014_4	13) 208	f+3/a · 216	3000 acro	_ft/xm	prior to	and during	,

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.

b Maximum daily discharge for period of record, 87300 ft³/s, Jun 6, 1921.

c Minimum daily discharge for period of record, no flow at times in 1913-15.

d Maximum discharge and stage for period of record, 303000 ft³/s, Jun 5, 1921, gage height, 14.55 ft, datum then in use, from rating curve extended above 10000 ft³/s.

f Datum then in use, from floodmarks.

07134100 BIG SANDY CREEK NEAR LAMAR, CO

LOCATION.--Lat $38^{\circ}06^{\circ}51^{\circ}$, long $102^{\circ}29^{\circ}00^{\circ}$, in $SW^{1}/_{4}SW^{1}/_{4}$ 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. Feb. 1968 to June 30, 1977 at datum 1.0 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions above station for irrigation, return flow from irrigated areas, and backwater from the Arkansas River at times. Several measurements 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 1999 TO SEPTEMBER 2000

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 21, 1965, reached a stage of 9.93 ft from floodmarks, discharge not

		DISCHAR	JE, CUBIC	, reel Per		MEAN VA	LUES	1999 10	SEPIEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	11	13	51	33	50	25	178	20	20	14	17
2 3	18 18	11 11	13 12	52 50	34 33	60 27	21 20	33 23	19 17	25 28	15 12	12 13
4	19	12	12	36	33	31	19	20	12	17	12	11
5	19	12	12	52	32	220	18	20	14	15	12	15
6 7	19 19	11 12	12 12	62 55	33 32	50 22	15 14	21 22	13 15	18 13	17 20	19 18
8	16	13	12	52	32	23	19	20	14	12	15	18
9	12	12	12	52	32	17	21	21	17	18	19	16
10	11	12	12	52	33	16	26	20	16	21	28	13
11	11	12	12	51	50	17	22	19	16	22	28	11 15
12 13	12 13	12 12	12 12	51 50	46 46	16 15	23 20	20 18	16 17	22 23	21 19	15
14	15	11	12	49	45	14	22	18	18	21	17	15
15	17	11	11	50	46	15	21	20	16	15	20	15
16 17	18 18	11 11	28 57	38 36	43 42	16 17	24 23	17 17	12 19	20 24	20 19	15 18
18	18	11	49	37	41	15	24	18	19	25	20	17
19	18	12	47	37	e41	15	22	15	18	22	21	16
20	19	12	48	36	e42	14	20	15	22	24	20	16
21	20	12	46	36	42	15	17	16	21	24	21	13
22 23	18 14	12 13	46 49	36 36	41 e41	16 16	15 22	15 16	20 18	24 23	25 25	11 10
24	14	13	52	34	e41	15	27	17	16	19	23	13
25	17	13	53	34	e41	14	19	15	15	20	22	16
26	19	13	51	33	e41	14	20	16	16	18	21	15
27 28	19 18	12 12	51 51	35 34	e41 e42	14 15	12 13	16 19	17 18	20 21	16 14	15 15
29	19	12	51	32	43	17	13	18	19	16	12	14
30	15	13	50	33		17	136	17	20	15	12	13
31	11		50	36		24		17		16	13	
TOTAL	514	357	960	1328	1142	847	713	737	510	621	573	440
MEAN MAX	16.6 20	11.9 13	31.0 57	42.8 62	39.4 50	27.3 220	23.8 136	23.8 178	17.0 22	20.0 28	18.5 28	14.7 19
MIN	11	11	11	32	32	14	12	15	12	12	12	10
AC-FT	1020	708	1900	2630	2270	1680	1410	1460	1010	1230	1140	873
STATIST	TICS OF MC	ONTHLY MEA	N DATA FO	OR WATER Y	EARS 1968	- 2000,	BY WATER	YEAR (WY)				
MEAN	8.32	15.5	20.3	22.4	21.8	22.0	21.6	23.0	11.4	10.8	15.4	10.3
MAX	28.4	58.9	63.0	75.5	55.6	59.0	70.6	166	42.9	41.6	85.3	41.8
(WY) MIN	1997 .087	1998 .41	1998 .34	1998 .50	1998 2.23	1998 2.10	1999 .81	1999 2.14	1999 1.77	1998 .21	1997 .027	1976 .084
(WY)	1979	1978	1978	1978	1978	1977	1978	1975	1976	1978	1976	1978
SUMMARY	STATISTI	ICS	FOR 1	1999 CALEN	DAR YEAR	F	OR 2000 WA	TER YEAR		WATER YE.	ARS 1968	- 2000
ANNUAL	TOTAL			16131.4			8742					
	ANNUAL M			44.2			23.9			17.2 45.6		1999
	ANNUAL ME DAILY ME			1460	May 4		220	Mar 5		2.23 1460		1979
	DAILY MEA			6.3	May 4 Sep 9		10	Sep 23		a.00		4 1999 13 1976
ANNUAL	SEVEN-DAY	MINIMUM		9.9	Sep 4		11	Oct 31		.00	Sep	1 1976
	TANEOUS PE						278	Apr 30		b2850		4 1999
	PANEOUS PE RUNOFF (A			32000			4.57 17340	Apr 30		9.66 12470	мау	4 1999
	CENT EXCE			57			46			43		
	CENT EXCE			29			18			8.8		
90 PERC	CENT EXCEE	SDS		12			12			.90		
o Poti	matod											

e Estimated.

a Also occurred on many days during 1976-79 water years. b From rating curve extended above 2520 ft³/s.

07134180 ARKANSAS RIVER NEAR GRANADA, CO

LOCATION.--Lat $38^{\circ}05^{\circ}44^{\circ}$, long $102^{\circ}18^{\circ}37^{\circ}$, in $SE^{1}/_{4}NE^{1}/_{4}$ 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 at present site and datum.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 3,480 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Record good. Flow regulated by John Martin Reservoir (station 0713000) 38 mi upstream since October 1948. 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. Several measurements 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 1999 TO SEPTEMBER 2000

	DISCHA	RGE, CUBI	C FEET PE				1999 TO	SEPTEMBI	ER 2000		
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
126 120 119 120 119	137 133 134 129 125	176 186 178 174 169	210 221 227 207 201	183 252 326 351 365	257 234 190 176 247	193 200 187 173 167	544 276 205 179 157	108 99 176 329 369	662 702 943 691 565	466 536 557 554 671	151 110 93 91 91
117 121 118 122 129	121 122 127 130 129	167 166 163 161 165	221 211 193 198 177	377 390 593 795 810	229 179 207 227 349	159 153 148 149 145	136 113 101 85 81	450 528 604 685 809	557 556 607 637 661	753 788 800 791 843	88 84 81 80 75
128 125 129 131 132	131 131 131 132 131	163 159 157 156 152	174 170 167 166 166	531 318 266 239 226	559 374 219 184 164	139 139 133 126 125	78 81 83 94 118	886 918 915 848 822	762 740 686 633 612	865 624 503 466 439	72 67 66 65 66
137 148 152 150 149	153 157 148 142 143	159 196 196 195 195	167 162 163 164 161	214 208 223 296 320	159 166 153 153 154	144 149 123 111 101	118 112 108 113 112	781 801 832 830 792	608 685 966 760 643	425 418 306 241 308	60 41 41 59 64
149 144 140 139 131	142 140 143 141 153	192 189 187 191 188	162 161 162 162 162	321 319 423 562 497	151 160 164 165 158	97 96 103 146 155	111 109 108 107 105	747 713 696 675 663	593 534 501 472 372	307 322 311 304 305	64 64 63 67 68
134 134 132 140 139 140	163 164 165 164 165	185 184 183 187 183 189	161 163 162 160 165 170	434 429 356 305 	149 150 143 140 137 157	145 134 123 119 356	110 108 110 111 90 97	655 691 713 721 692	202 123 104 160 325 356	283 262 259 233 220 200	68 71 175 231 262
4114 133 152 117 8160	4226 141 165 121 8380	5491 177 196 152 10890	5516 178 227 160 10940	10929 377 810 183 21680	6254 202 559 137 12400	4438 148 356 96 8800	4060 131 544 78 8050	19548 652 918 99 38770	17418 562 966 104 34550	14360 463 865 200 28480	2678 89.3 262 41 5310
CICS OF MO	ONTHLY MEA	AN DATA F	OR WATER	YEARS 1981	- 2000,	BY WATER	YEAR (WY)				
85.2 184 1984 4.15 1993	106 306 1998 9.68 1982	132 479 1998 35.4 1982	147 886 1998 39.8 1994	137 495 1998 55.9 1982	132 608 1998 22.7 1994	211 1138 1987 5.68 1992	345 2470 1999 4.51 1992	442 2196 1987 9.39 1981	484 2144 1995 130 1990	287 775 1999 4.39 1990	121 430 1984 4.13 1990
STATIST	ICS	FOR	1999 CALE	NDAR YEAR	F	OR 2000 WA	TER YEAR		WATER Y	EARS 1981	- 2000
ANNUAL ME	EAN		215610 591			99032 271					1987 1992
DAILY MEA SEVEN-DAY CANEOUS PE CANEOUS PE RUNOFF (A CENT EXCER CENT EXCER	AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS EDS		4070 84 104 427700 2430 163 119	May 5 Apr 11 Apr 7		966 41 56 a1060 a8.85 196400 678 166	Sep 17 Sep 16 Jul 3		2.7 3.0 b4610	Aug 1 Aug 1 May	5 1999 17 1990 14 1990 5 1999 5 1999
	126 120 119 120 119 121 118 122 129 128 125 129 131 132 137 148 152 150 149 144 140 139 131 134 134 132 140 139 140 4114 133 152 117 8160 CICS OF MC 85.2 184 1993 4114 133 152 117 8160 CICS OF MC 85.2 184 1993 4114 133 152 117 8160 CICS OF MC 85.2 184 1993 4114 133 152 117 8160 CICS OF MC 85.2 184 1993 4114 133 152 117 8160 CICS OF MC 85.2 184 1993 4114 133 152 117 8160 CICS OF MC 85.2 184 1993 CICS OF MC	OCT NOV 126 137 120 133 119 134 120 129 119 125 117 121 121 122 118 127 122 130 129 129 128 131 125 131 125 131 125 131 131 132 132 131 131 132 132 131 137 153 148 157 152 148 150 142 149 143 149 143 149 143 149 143 149 143 149 140 140 143 139 141 131 153 134 163 134 164 132 165 140 164 139 165 140 164 130 164 130 164 130 164 130 164 130 164 130 164 130 164 130 164 130 164 130 164 130 164 130 164 130 164 130 164 130 164 130 164 130 164 130	OCT NOV DEC 126 137 176 120 133 186 119 134 178 120 129 174 119 125 169 117 121 167 121 122 166 118 127 163 122 130 161 129 129 165 128 131 163 125 131 159 129 131 157 131 132 156 132 131 159 148 157 196 152 148 196 150 142 195 148 196 150 142 195 149 143 195 149 143 195 149 143 195 149 143 195 149 143 187 131 153 188 134 163 185 134 164 184 132 165 183 140 164 187 139 165 183 140 164 184 132 165 183 140 164 184 132 165 183 140 164 184 132 165 183 140 164 184 132 165 183 140 164 184 132 165 183 140 164 184 132 165 183 140 164 184 132 165 183 140 164 184 132 165 183 140 189	OCT NOV DEC JAN 126 137 176 210 120 133 186 221 119 134 178 227 120 129 174 207 119 125 169 201 117 121 167 221 121 122 166 211 118 127 163 193 122 130 161 198 129 129 165 177 128 131 163 174 125 131 159 170 129 131 157 167 131 132 156 166 132 131 152 166 132 131 152 166 132 131 157 167 131 132 156 166 132 131 157 167 131 132 156 166 132 131 157 167 148 157 196 162 152 148 196 163 150 142 195 164 149 143 195 161 149 143 195 161 149 143 195 161 140 143 187 162 134 163 185 161 134 163 185 161 134 163 185 161 134 163 185 161 134 163 185 161 134 163 185 161 134 164 184 163 132 165 183 162 134 163 185 161 134 164 184 163 132 165 183 162 134 163 185 161 134 164 187 160 139 165 183 165 140 189 170 CICS OF MONTHLY MEAN DATA FOR WATER 85.2 106 132 147 184 306 479 886 1984 1998 1998 1998 4.15 9.68 35.4 39.8 1993 1982 1982 1994 CY STATISTICS FOR 1999 CALE TOTAL 215610 MEAN 5 1918 CY STATISTICS FOR 1999 CALE TOTAL 215610 MEAN 5 1919 CENT EXCEEDS 2430 ENT EXCEEDS 2430 ENT EXCEEDS 2430 ENT EXCEEDS 2430	OCT NOV DEC JAN FEB 126 137 176 210 183 120 133 186 221 252 119 134 178 227 326 120 129 174 207 351 119 125 169 201 365 117 121 167 221 377 121 122 166 211 390 118 127 163 193 593 122 130 161 198 795 129 129 165 177 810 128 131 163 174 531 125 131 159 170 318 129 131 157 167 266 131 132 156 166 239 132 131 159 170 318 129 131 157 167 266 131 132 156 166 239 132 131 159 170 318 129 131 157 167 266 131 132 156 166 239 132 131 159 160 226 137 153 159 167 214 148 157 196 162 208 150 142 195 164 296 149 143 195 161 320 149 142 195 164 296 149 143 195 161 320 149 142 192 162 321 144 140 189 161 319 140 143 187 162 423 139 141 191 162 562 131 153 188 162 497 134 163 185 161 434 134 164 184 163 429 132 165 183 165 140 164 187 160 305 139 165 183 165 140 164 187 160 305 139 165 183 165 140 164 187 160 305 139 165 183 165 140 164 187 160 305 133 141 177 178 377 152 165 196 278 810 117 121 152 160 183 8160 8380 10890 10940 21680 PICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 85.2 106 132 147 137 152 165 196 227 810 117 121 152 160 183 8160 8380 10890 10940 21680 PICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 85.2 106 132 147 137 159 1984 1998 1998 1998 1998 1993 1982 1994 1982 PICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 REVENDAY MINIMUM 104 Apr 7 1880 1984 1998 1998 1998 1998 1993 1982 1994 1982 PAILLY MEAN 84 Apr 11 215 215610 21 2150 2430 21 217 21700 21 2170 22 230 21 21 21 21 21 21 21 21 21 21 21 21 21 2	OCT NOV DEC JAN FEB MAR 126 137 176 210 183 257 120 133 186 221 252 234 119 134 178 227 326 190 120 129 174 207 351 176 119 125 169 201 365 247 117 121 167 221 377 229 121 122 166 211 390 179 118 127 163 193 593 207 122 130 161 198 795 227 129 129 165 177 810 349 128 131 163 174 531 559 129 131 159 170 318 374 129 131 159 170 318 374 132 131 155 166 226 164 137 153 159 170 318 374 132 131 152 166 226 164 137 153 159 167 214 159 148 157 196 162 208 166 152 148 196 163 223 153 150 142 195 164 296 153 150 142 195 164 296 153 149 143 195 161 320 154 149 143 195 161 320 154 149 144 140 189 161 319 160 140 143 187 162 423 164 131 153 165 164 296 153 134 164 185 165 164 349 159 144 140 189 161 319 160 144 143 187 162 423 164 139 141 191 162 562 165 131 153 165 183 162 497 158 134 164 184 163 429 150 134 165 183 165 137 140 189 170 157 4114 4226 5491 5516 10929 6254 133 141 177 178 377 202 152 165 183 165 137 140 189 170 157 4114 4226 5491 5516 10929 6254 133 141 177 178 377 202 152 165 183 165 137 140 189 170 157 4114 4226 5491 5516 10929 6254 133 141 177 178 377 202 152 165 183 165 137 140 189 170 157 4114 4226 5491 5516 10929 6254 133 141 177 178 377 202 152 165 196 27 810 559 117 121 152 165 108 198 1998 1998 1984 1998 1998 1998 1998 1998 1994 1993 1982 1994 1982 1994 2 STATISTICS FOR 1999 CALENDAR YEAR FORTAL MEAN ANNUAL M	OCT NOV DEC JAN FEB MAR APR 126 137 176 210 183 257 193 120 133 186 221 252 234 200 119 134 178 227 326 190 187 120 129 174 207 351 176 173 119 125 169 201 365 247 167 117 121 167 221 377 229 159 121 122 166 211 390 179 153 118 127 163 193 593 207 148 122 130 161 198 795 227 149 122 130 161 198 795 227 149 123 124 139 165 177 810 349 145 128 131 163 174 531 559 139 125 131 159 170 318 374 139 129 131 157 167 266 219 133 131 132 156 166 239 184 126 132 131 152 166 239 184 126 133 153 159 167 214 159 144 148 157 196 162 208 166 149 152 148 196 163 223 153 123 150 142 195 164 296 153 111 149 143 195 161 320 154 101 149 142 192 162 321 151 97 144 140 189 161 320 154 101 149 141 191 162 562 165 146 131 153 188 162 497 158 155 134 163 185 161 434 149 145 134 163 185 161 434 149 145 135 181 163 170 138 137 159 150 134 139 141 191 162 562 165 146 131 153 159 167 214 159 144 144 140 189 161 319 160 96 140 143 187 162 423 164 101 149 142 192 162 321 151 97 144 140 189 161 319 160 96 140 143 187 162 423 164 101 149 142 192 162 321 151 97 144 140 189 161 319 160 96 140 143 187 162 423 164 101 149 141 191 162 562 165 146 131 153 188 162 497 158 155 134 163 185 161 434 149 145 134 164 184 163 429 150 134 135 151 183 165 137 356 140 189 170 157 4114 426 5491 5516 10929 6254 4438 133 141 177 178 377 202 148 159 164 198 198 1998 1998 1998 1998 1998 1998	OCT NOV DEC JAN FEB MAR APR MAY 126 137 176 210 183 257 193 544 120 133 186 221 252 234 200 276 119 134 178 227 356 190 187 205 119 121 134 178 227 356 190 187 205 119 125 169 201 365 247 167 157 117 121 167 221 377 229 159 136 121 122 130 161 198 795 207 148 101 122 130 161 198 795 207 148 101 122 130 161 198 795 227 149 85 129 129 165 177 810 349 145 81 128 131 163 174 531 559 139 78 129 131 157 167 266 219 133 83 131 132 156 166 239 184 126 94 132 131 152 166 226 164 125 118 137 153 159 167 214 159 144 118 148 157 196 162 208 166 149 112 149 142 192 162 208 166 149 112 149 142 195 164 296 153 111 149 143 195 161 320 154 101 112 149 142 195 164 296 153 111 131 153 188 162 423 164 103 103 134 164 184 187 162 463 193 193 164 103 108 134 163 185 161 320 154 101 112 149 142 195 164 296 153 111 139 149 143 187 162 463 153 111 113 149 143 195 161 320 154 101 112 149 142 192 162 321 151 150 134 103 108 134 163 185 161 320 154 101 112 149 142 192 162 321 153 123 108 139 141 177 178 377 202 148 131 131 153 188 162 497 158 155 105 134 163 185 161 320 154 101 112 149 142 192 162 321 151 150 96 109 140 143 187 162 463 153 111 113 153 188 162 497 158 155 105 134 163 185 161 320 154 101 112 149 142 192 162 321 151 150 97 111 149 144 189 161 319 160 96 109 140 143 187 162 463 429 150 134 108 132 133 153 188 162 497 158 155 105 134 163 185 161 34 499 159 159 136 149 131 153 188 162 497 158 155 105 134 163 185 161 33 165 100 194 199 199 199 199 199 199 199 199 199	OCT NOV DEC JAN FEB MAR AFR MAY JUN 126 137 176 210 183 257 193 544 108 120 133 186 221 252 234 200 276 99 119 134 178 227 326 190 187 205 176 120 129 174 207 351 176 173 179 329 119 125 169 201 365 247 167 157 369 117 121 167 221 377 229 159 136 450 118 127 166 211 370 179 153 113 528 118 127 166 211 370 179 153 113 528 118 127 166 211 370 179 153 113 528 118 127 166 211 370 179 153 113 528 118 127 166 211 370 179 153 113 528 112 120 167 211 370 179 153 113 528 112 130 161 193 593 277 148 101 604 122 130 161 193 795 227 149 810 160 128 131 153 170 318 374 139 81 809 128 131 157 167 266 219 133 83 195 129 131 157 167 266 229 133 83 915 131 132 156 166 239 184 126 94 848 132 131 152 166 226 164 125 118 802 137 153 159 167 214 159 144 118 781 148 157 196 162 208 166 149 112 801 150 142 195 164 296 153 111 113 830 149 143 195 167 214 159 144 118 781 144 140 189 161 320 154 111 113 830 149 141 149 142 195 164 296 153 111 113 830 149 144 140 189 161 319 160 96 109 713 140 143 187 162 243 155 146 101 112 792 149 142 195 164 296 153 111 113 830 140 143 147 162 208 164 101 112 792 149 142 195 164 296 153 111 113 830 149 141 191 162 562 165 146 107 167 144 140 189 161 320 154 101 112 792 149 142 195 164 321 151 97 111 747 144 140 189 161 319 160 96 109 713 140 143 187 162 278 164 178 178 178 178 178 178 178 178 178 178	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL 126 137 176 210 183 257 193 544 108 662 120 133 186 221 252 234 200 276 99 702 119 114 178 227 326 190 187 205 176 99 702 119 124 178 227 326 190 187 205 176 99 702 119 125 169 201 365 247 167 157 369 685 117 121 12 167 221 377 229 159 136 450 557 121 122 166 211 390 179 153 113 528 556 118 127 163 193 593 207 148 101 604 607 122 130 161 198 795 227 149 85 685 637 129 129 165 177 810 349 145 81 809 661 128 131 163 174 531 559 139 78 886 762 129 130 151 159 170 318 374 139 81 918 760 129 131 159 170 318 374 139 81 918 760 129 131 159 170 318 374 139 81 918 760 131 131 155 166 226 164 125 118 822 612 137 153 159 167 226 164 125 118 822 612 137 153 159 167 226 164 125 118 829 661 148 157 196 162 208 166 149 112 801 685 150 142 195 164 296 153 111 113 83 68 39 661 149 143 195 161 320 154 113 113 83 966 150 142 195 164 296 153 111 113 830 760 149 143 195 161 320 154 113 113 127 92 643 149 142 195 164 296 153 111 113 830 760 149 143 195 161 320 154 101 112 792 643 144 146 189 162 208 166 199 112 801 685 150 142 195 164 296 153 111 113 830 760 149 143 195 161 320 154 101 112 792 643 144 146 189 162 208 166 199 112 801 685 150 142 195 164 296 153 111 113 830 760 149 143 195 161 320 154 101 112 792 643 144 146 189 162 223 164 103 119 117 747 593 144 144 145 189 162 249 155 144 108 691 123 134 163 185 164 296 153 111 113 830 760 149 144 142 192 162 362 665 143 123 110 713 104 114 115 71 160 165 168 168 168 168 179 179 170 170 170 170 170 170 170 170 170 170	COCT NOV DEC JAN FEB MAR APR APR MAY JUN JUL AUG

a Also occurred July 18.
b From rating curve extended above 4050 ft³/s.
c Maximum gage height, 12.38 ft, May 27, 1996.

07134990 WILD HORSE CREEK ABOVE HOLLY, CO

LOCATION.--Lat $38^{\circ}03^{\circ}24^{\circ}$, long $102^{\circ}08^{\circ}16^{\circ}$, in $NE^{1}/_{4}NE^{1}/_{4}$ 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 site 1,050 ft upstream at datum 3.00 ft higher.

REMARKS.--Records fair except for 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 (seasonal only).--Maximum discharge, 1,270 ft³/s, May 26, 1996, from slope-area measurement of peak flow, gage height, 6.90 ft, from flood mark, 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 (seasonal only).--Maximum discharge, 164 $\rm ft^3/s$ at 1245 May 3, gage height, 5.03 $\rm ft$; maximum gage height, 5.35 $\rm ft$, July 18; minimum daily, 13 $\rm ft^3/s$, Apr. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY MEAN VALUES DAY OCT MOM DEC TAN FEB MAR APR MAY TITN TITT. ATTG SEP ---___ ---79 7 21 ___ ___ ___ ___ ------12 51 22 ---------20 23 27 24 ___ ---------___ e27 ------------------___ ___ ___ ---___ ---___ ---2.2 17 25 54 ---15 30 16 ---------31 28 46 13 16 15 ___ ___ ___ ___ ___ 27 36 ------___ ___ ---------TOTAL ---------47.8 78 ___ ___ 17.9 31.0 21.3 MEAN 21.2 35.6 20.9 ------------MAX ---MTN 2.0 AC-FT

e Estimated

arkansas river basin 369

07137000 FRONTIER DITCH NEAR COOLIDGE, KS

LOCATION.--Lat $38^{\circ}02^{\circ}18^{\circ}$, long $102^{\circ}02^{\circ}19^{\circ}$, 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 except those for estimated daily discharges, which are fair. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, $84 \text{ ft}^3/\text{sec}$ Aug. 1, 1975i no flow many days each year.

			,		DAILY	MEAN VA	LUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	.51 .11 .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	35 27 25 28 30	31 30 28 5.6 37	26 22 7.8 27 28	30 31 29 30 30	32 31 28 25 24
6 7 8 9 10	.00 .00 .00 .00	.00 .00 .00 .00	.00 e.00 e.00 e4.0 e4.0	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	30 30 29 29 30	35 35 38 41 47	29 34 34 32 32	30 30 30 32 35	27 28 28 28 28
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	e4.0 e4.0 e4.0 e4.0 e4.0	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	29 31 30 29 28	48 47 47 47 47	30 29 27 26 26	36 32 33 33 32	28 27 26 25 26
16 17 18 19 20	.00 .00 .00 .00	.00 .00 .00 .00	e4.0 e4.0 e4.0 e4.0	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	30 29 29 30 27	39 29 25 23 23	28 30 24 27 31	35 35 35 34 36	27 26 28 28 28
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .00 .00	4.6 4.4 4.3 4.3	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	26 25 28 30 30	18 18 23 24 29	31 31 30 29 29	22 34 30 30 30	29 27 27 28 28
26 27 28 29 30 31	.00 .00 .00 .00	.00 .00 .00 .00	4.2 3.1 .13 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	20 37 38 38 39	31 32 31 31 29 29	29 28 26 26 26 	28 29 30 30 30 30	31 31 31 31 32 31	27 27 27 27 28
MEAN MAX MIN AC-FT	.020 .51 .00 1.2	.000 .00 .00	2.50 4.6 .00 154	.000	.000 .00 .00	.000 .00 .00	5.73 39 .00 341	29.3 35 25 1800	31.7 48 5.6 1880	28.3 34 7.8 1740	31.6 36 22 1950	27.4 32 24 1630

CAL YR 1999 MEAN 12.0 MAX 53 MIN .00 AC-FT 8690 WTR YR 2000 MEAN 13.1 MAX 48 MIN .00 AC-FT 9500

e Estimated

07137500 ARKANSAS RIVER NEAR COOLIDGE, KS

LOCATION.--Lat $38^{\circ}01'34"$, long $102^{\circ}00'41"$, in $NW^{1}/_{4}NE^{1}/_{4}NW^{1}/_{4}$ 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 $\mathrm{mi}^{\,2},$ of which 1,708 $\mathrm{mi}^{\,2}$ 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 Oct. 1948 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.

		DISCHAF	RGE, CUBI	C FEET PE		WATER YE MEAN V	EAR OCTOBER	1999 TO	SEPTEMBI	ER 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	350	313	280	261	240	388	370	668	218	789	415	232
2	350	317	294	270	263	380	417	572	214	777	545	204
3	362	311	282	281	304	374	419	459	213	1040	584	197
4	365	286	264	277	331	438	414	397	345	876	592	192
5	369	282	239	271	349	455	390	356	401	675	633	184
6	356	264	245	277	361	427	357	329	459	613	747	178
7	358	265	249	280	376	409	327	324	542	618	815	162
8	353	279	245	274	405	496	316	302	575	656	867	155
9	330	255	237	260	596	485	315	276	613	706	834	167
10	316	242	253	251	666	488	301	250	680	744	881	161
11	293	225	264	247	614	713	278	224	777	881	983	161
12	269	224	262	246	429	756	276	224	866	887	791	160
13	254	245	252	241	363	546	279	237	903	815	607	164
14	255	266	257	241	332	480	270	255	823	750	549	150
15	260	281	242	243	314	445	258	298	814	674	542	132
16	253	314	233	241	299	441	287	302	776	671	506	126
17	255	317	248	237	290	427	291	306	824	698	481	131
18	264	311	258	234	283	396	285	268	899	1250	457	131
19	283	304	258	236	318	372	278	260	891	992	326	121
20	267	297	253	233	363	387	270	281	846	775	362	117
21	268	321	252	234	382	391	323	280	807	703	439	119
22	254	337	249	234	380	429	291	291	775	680	403	120
23	248	355	246	234	397	454	293	279	761	618	387	114
24	252	346	246	234	511	467	320	232	755	618	361	118
25	283	319	248	233	554	428	363	212	729	588	363	135
26 27 28 29 30 31	269 263 256 255 277 306	318 334 311 300 286	247 250 252 255 257 254	232 232 230 228 229 240	485 474 461 415 	405 372 308 294 289 314	330 272 242 244 299	219 229 223 237 243 208	726 764 819 828 799	436 329 284 255 322 393	355 330 319 300 274 266	142 134 147 212 253
MEAN	293	294	254	247	398	434	312	298	681	681	526	157
MAX	369	355	294	281	666	756	419	668	903	1250	983	253
MIN	248	224	233	228	240	289	242	208	213	255	266	114
AC-FT	18040	17500	15610	15200	22920	26690	18600	18330	40550	41880	32360	9360
STATIST	TICS OF M	ONTHLY MEA	AN DATA F	OR WATER	YEARS 1951	- 2000,	, BY WATER	YEAR (WY)				
MEAN	134	122	127	135	141	136	222	330	501	363	340	186
MAX	332	424	534	972	602	658	1221	2478	8221	2255	1979	1079
(WY)	1998	1998	1998	1998	1966	1998	1987	1999	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	1999 CALE	NDAR YEAR	F	FOR 2000 WAS	TER YEAR		WATER YE	ARS 1951	- 2000
SUMMARY STATISTICS 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			729 3310 181 189 527800 2620 306 209	May 6 Mar 7 Mar 5		382 1250 114 120 1450 6.18 277000 748 304 224	Jul 18 Sep 23 Sep 18 Jul 18 Jul 18		228 1012 19.8 101000 .00 158000 14.80 165500 463 129 10	Jul Jul Jun	1965 1979 18 1965 9 1954 9 1954 17 1965 17 1965	

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.

PERIOD OF RECORD. -- May 1951 to September 1999. October 1999 to September 2000 (seasonal records only) (discontinued).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,430 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream regulated by Santa Maria, Rio Grande, and Continental Reservoirs (combined capacity, 121,400 acre-ft), and affected by diversions upstream from station for irrigation and 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.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 5,190 ${\rm ft}^3/{\rm s}$, June 9, 1985, from rating curve extended above 4,460 ${\rm ft}^3/{\rm s}$, gage height, 6.10 ft, from floodmarks; minimum daily, 46 ${\rm ft}^3/{\rm s}$, Dec. 9, 1956

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 3,010 ft³/s at 0300 May 24, gage height, 4.36 ft; minimum daily, 110 ft³/s, Dec. 9-16, Mar. 23.

		DISCHA	RGE, CUBIC	FEET PER		WATER YE MEAN VA		ER 1999 TC	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	505	495	e161				153	1040	1960	364	188	248
2	458	401	e165				160	979	1930	333	198	229
3	465	324	e142				160	1240	1720	334	208	220
4	463	302	e135				159	1700	1340	313	224	210
5	593	304	e130				226	2290	1610	373	222	223
6	595	281	e125				289	2330	1670	359	194	233
7	617	255	e120				321	2140	1560	343	173	246
8	587	255	e115				340	2180	1530	344	161	247
9	539	221	e110				345	1920	1550	335	151	256
10	525	180	e110				402	1780	1420	331	145	239
10	525	100	6110				402	1700	1420	331	143	233
11	509	179	e110				376	1880	1350	304	150	233
12	500	175	e110				341	1750	1250	281	155	228
13	516	275	e110				367	1430	879	288	184	224
14	506	281	e110				384	1220	712	278	195	224
15	486	305	e110				372	1010	689	277	232	207
16	489	191	e110				322	1070	683	291	247	203
17	478	168					341	1080	660	304	233	202
18	471	187					459	1110	651	325	236	225
	364	145					628		653	323	278	225
19								1300				
20	335	140					544	1230	519	306	313	221
21	389	e135					598	1330	496	283	294	212
22	391	e130					628	1820	465	262	302	249
23	388	e120				e110	571	2430	429	236	340	249
24	382	e130				121	646	2680	423	216	308	266
25	376	e140				128	688	2820	431	198	317	239
26	393	e155				141	762	2300	421	187	328	223
27	391	e170				161	979	1800	407	186	313	210
28	407	e170				200	1210	1790	409	180	296	200
29	476	e165				184	1460	2190	383	184	282	200
30	480	e158				184	1260	2400	383	191	286	220
31	515					153		1990		196	279	
31	313					133		1000		100	215	
TOTAL	14589	6537					15491	54229	28583	8724	7432	6822
MEAN	471	218					516	1749	953	281	240	227
MAX	617	495					1460	2820	1960	373	340	266
MIN	335	120					153	979	383	180	145	200
AC-FT	28940	12970					30730	107600	56690	17300	14740	13530

e Estimated.

08219500 SOUTH FORK RIO GRANDE AT SOUTH FORK, CO

LOCATION.--Lat 37°39'25", long 106°38'55", in $SW^1/_4NE^1/_4$ sec.3, T.39 N., R.3 E., Rio Grande County, Hydrologic Unit 13010001, on left bank near U.S. Highway 160, 0.1 mi downstream from Church Creek, 0.9 mi southwest of village of South Fork, and 1.5 mi upstream from mouth.

DRAINAGE AREA. -- 216 mi².

PERIOD OF RECORD.--August 1910 to September 1922, May 1936 to September 1995, and October 1998 to current year. Monthly discharge only for some periods, published in WSP 1312.

REVISED RECORDS.--WSP 898: 1911(M). WSP 1312: 1912, 1944(M). WSP 1632: 1956-58(P).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,221.79 ft above sea level. Aug. 9, 1910 to Mar. 28, 1915, nonrecording gage, and Mar. 29, 1915 to Sept. 30, 1922, water-stage recorder, at bridges 1 mi downstream at different datums.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions from Colorado River Basin to drainage area upstream from station through Treasure Pass ditch. Natural flow of stream affected by a few small diversions for irrigation, slight regulation by Beaver Creek Reservoir, capacity, 4,760 acre-ft, and several smaller storage reservoirs.

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, exceeds all other observed floods at this location since at least 1873. Flood of June 29, 1927, reached a stage about 1 ft lower than that of Oct. 5, 1911, from information by local residents.

		DISCHARG	E, CUBIC	C FEET PER		WATER YE MEAN VA	AR OCTOBER LUES	1999 TO	SEPTEMBE	ER 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	132 123 116 110 107	67 59 48 49 49	e32 e36 e33 e31 e31	e39 e33 e30 e30 e32	e31 e31 e33 e31 e31	e37 e39 e36 e35 e38	71 67 67 80 116	316 304 421 559 667	293 267 249 215 196	70 66 61 56 51	35 35 37 41 40	40 37 37 35 35
6 7 8 9	101 124 113 110 109	48 47 46 39 36	e30 e32 e31 e32 e32	e33 e32 e34 e35 e36	e34 e34 e33 e34 e34	e44 e45 47 44 46	137 153 160 163 188	667 596 676 532 527	197 186 168 166 149	47 47 49 46 44	39 40 42 39 38	35 35 34 39 36
11 12 13 14 15	103 100 99 95 91	37 36 36 35 38	e34 e32 e31 e31 e28	e37 e37 e34 e34 e34	e34 e33 e33 e34 e35	44 45 44 46 47	185 168 196 220 219	624 532 425 372 373	128 115 106 95 89	40 41 48 47 47	38 42 41 44 48	34 32 32 32 32
16 17 18 19 20	87 81 81 82 78	37 39 39 29 44	e30 e33 e31 e33 e33	e34 e38 e38 e37 e35	e33 e34 e33 e33 e33	47 49 49 48 48	188 193 223 208 187	380 328 284 274 273	84 77 73 78 81	48 57 54 46 40	44 42 44 56 57	32 32 33 34 33
21 22 23 24 25	77 76 76 76 77	39 e36 e30 e32 e31	e32 e32 e31 e34 e34	e35 e34 e32 e32 e37	e33 e36 e34 e35 e33	51 48 49 54 61	230 264 238 268 291	295 385 485 509 481	88 79 71 70 70	37 36 36 35 36	58 46 44 44 51	32 49 53 67 49
26 27 28 29 30 31	74 71 70 71 62 69	e32 e33 e34 e34 e34	e35 e35 e35 e37 e35 e34	e40 e36 e33 e31 e29 e30	e32 e33 e40 e37	67 78 83 77 75 73	326 431 491 473 398	460 395 394 411 384 335	64 64 68 68 70	37 40 41 40 39 37	49 43 41 40 42 44	43 40 39 43 48
TOTAL MEAN MAX MIN AC-FT	2841 91.6 132 62 5640	1193 39.8 67 29 2370	1010 32.6 37 28 2000	1061 34.2 40 29 2100	974 33.6 40 31 1930	1594 51.4 83 35 3160	6599 220 491 67 13090	13664 441 676 273 27100	3724 124 293 64 7390	1419 45.8 70 35 2810	1344 43.4 58 35 2670	1152 38.4 67 32 2280
							BY WATER					
MEAN MAX (WY) MIN (WY)	91.9 569 1912 32.1 1956	58.5 152 1987 23.9 1961	106 1912 18.0 1977	37.8 88.6 1986 13.6 1977	40.7 78.3 1986 18.2 1955	63.8 131 1989 21.5 1955	217 479 1962 85.2 1955	691 1282 1984 211 1977	838 1746 1979 113 1977	259 794 1957 45.8 2000	113 264 1957 43.1 1978	87.5 358 1970 23.6 1956
	STATISTI	CS	FOR 1	1999 CALEN	DAR YEAR	F	OR 2000 WA	TER YEAR		WATER Y	EARS 1910	- 2000
LOWEST HIGHEST		AN AN		87746 240 1290 e28	May 23 Dec 15		36575 99.9 676 e28	May 8 Dec 15		213 359 68.9 2980 10	May 2	1985 1977 24 1984 6 1977
ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	DATLY MEA SEVEN-DAY ANEOUS PE ANEOUS PE RUNOFF (A ENT EXCEE ENT EXCEE ENT EXCEE	MINIMUM AK FLOW AK STAGE C-FT) DS		e28 e31 174000 855 132 35	Dec 15		e31 820	Dec 13 Dec 12 May 5 May 5		10 11 a8000 b9.7 154200 619 72 34	Dec 3 Oct	5 1977 5 1911 5 1911
e Esti	mated.						2					

a Present site and datum, from rating curve extended above 1500 ft³/s. b From floodmarks.

From floodmarks.

08220000 RIO GRANDE NEAR DEL NORTE, CO

LOCATION.--Lat $37^{\circ}41^{\circ}22^{\circ}$, long $106^{\circ}27^{\circ}38^{\circ}$, 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.

		DISCHA	RGE, CUBI	C FEET PE		WATER YI MEAN VA		ER 1999 TO	SEPTEMBI	ER 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	737 685 664 649 720	651 555 460 416 418	266 281 247 237 e220	e190 e170 e160 e160 e170	e190 e200 e200 e190 e190	202 204 199 207 219	268 265 272 281 369	1550 1390 1720 2340 3110	2430 2360 2250 1620 1860	443 413 395 366 387	207 202 218 230 248	274 246 233 220 226
6 7 8 9	763 829 787 740 712	413 359 356 350 287	e200 e210 e210 e210 e210	e180 e170 e190 e190 e200	e200 e200 e200 e210 e210	206 208 205 208 192	468 533 573 571 680	3280 2930 3060 2760 2510	1970 1830 1760 1700 1670	404 375 386 374 367	227 205 197 180 173	250 251 263 275 268
11 12 13 14 15	688 672 677 674 649	273 268 259 388 409	e220 e210 e200 e200 e180	e210 e210 e190 e190 e190	e210 e200 e200 e210 e210	181 197 199 200 216	668 600 637 700 713	2720 2580 2100 1790 1530	1520 1490 1110 908 842	367 303 330 325 320	173 185 201 219 250	246 243 236 236 231
16 17 18 19 20	648 635 622 561 477	316 254 276 239 220	e200 e220 e200 e220 e220	e190 e200 e200 e210 e190	e200 e200 e190 e190 194	212 215 212 193 220	591 584 727 906 820	1570 1530 1460 1670 1620	824 794 775 790 681	324 354 360 344 320	281 265 258 304 367	222 222 223 250 239
21 22 23 24 25	506 535 531 523 520	246 344 323 191 e350	e200 e200 e200 e220 e220	e200 e190 e180 e190 e200	211 216 200 209 191	221 216 217 224 243	884 980 886 966 1080	1630 2230 2960 3350 3400	619 582 525 520 508	285 264 246 238 227	362 314 356 346 347	231 260 308 339 296
26 27 28 29 30 31	524 531 531 603 611 650	e340 e330 e330 e290 e270	e220 e220 e220 e220 e200 e190	e200 e190 e180 e170 e170 e180	189 197 214 205 	258 287 335 318 310 309	1180 1480 1810 2090 1870	3110 2500 2310 2680 3090 2530	507 487 492 459 458	212 212 212 208 213 217	362 352 324 302 298 318	254 236 222 226 254
MEAN MAX MIN AC-FT	19654 634 829 477 38980 CS OF M	10181 339 651 191 20190	6671 215 281 180 13230	5810 187 210 160 11520 OR WATER	5826 201 216 189 11560 YEARS 1890	7033 227 335 181 13950	24452 815 2090 265 48500	73010 2355 3400 1390 144800	34341 1145 2430 458 68120	9791 316 443 208 19420	8271 267 367 173 16410	7480 249 339 220 14840
MEAN MAX (WY) MIN (WY)	489 2451 1912 134 1957	288 804 1917 114 1957	207 420 1926 105 1957	190 340 1912 89.8 1977	197 300 1928 111 1977	273 646 1910 153 1965	767 1999 1895 317 1951	2515 4449 1922 747 1977	3152 6240 1921 475 1934	1436 3451 1957 239 1934	795 1800 1999 190 1956	518 2001 1927 135 1956
INSTANTAI INSTANTAI	OTAL EAN ANNUAL M DAILY ME EVEN-DA NEOUS P NEOUS P UNOFF (NT EXCE	MEAN EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS		1999 CALE 463273 1269 4960 180 193 918900 3690 648 210	Jun 10 Feb 11 Feb 10	I	212520 581 3400 160 171 3740	May 25 Jan 3 Jan 1 May 24 72 May 24		907 1482 311 14000 69 76 a18000 6.8 657400 2460 365 166	Aug 2 Dec 2 Oct	1987 1977 6 1911 21 1902 29 1976 5 1911 5 1911

e Estimated.

a From rating curve extended above 12900 ft³/s.

CLOSED BASIN IN SAN LUIS VALLEY, CO

08224500 KERBER CREEK AT ASHLEY RANCH, NEAR VILLA GROVE, CO

LOCATION.--Lat $38^{\circ}14^{\circ}28^{\circ}$, long $106^{\circ}06^{\circ}57^{\circ}$, in $SW^{1}/_{4}NW^{1}/_{4}$ sec.17, T.46 N., R.8 E., Saguache County, Hydrologic Unit 13010003, on left bank at Ashley Ranch, 4.5 mi upstream from Little Kerber Creek, and 9 mi west of Villa Grove.

DRAINAGE AREA. -- 38 mi², approximately.

PERIOD OF RECORD.--June 1923 to September 1926 (published as Kerber Creek near Villa Grove). May 1936 to September 1982, October 1998 to current year. Monthly discharge only for some periods, published in WSP 1312.

REVISED RECORDS. -- WSP 1312: 1937-1938. WSP 1512: 1943.

GAGE.--Water-stage recorder. Elevation of gage is 8,830 ft from topographic map. Prior to Dec. 10, 1963, at site 150 ft upstream at datum 1.50 ft higher.

DISCUIDE CIDIC PER DED CECOND WATER VEAD COTORED 1000 TO CEDTEMBER 2000

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversions above gage.

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 1872, that of May 14, 1941, from information by local

		DISCHAR	GE, CUBI	C FEET PER	SECOND, V		AR OCTOBER LUES	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	7.4 7.0 7.0 6.6 6.6	5.0 4.6 4.9 4.8	e3.3 e3.0 e2.8 e2.6	e2.2 e2.1 e1.9 e1.7 e1.9	017	e2.3 e2.2 e2.2 e2.4 e1.9	e4.1 e4.5 e5.1 e6.8 e7.8	37 35 37 44 54	e36 35 33 31 30	7.8 7.0 7.0 6.2 5.5	2.5 2.5 2.7 2.7 2.7	6.2 5.5 5.2 4.9
6 7 8 9 10	6.6 7.8 7.8 7.4 6.6	4.6 4.5 4.7 4.9 4.2	e2.4 e2.4 e2.5 e2.5 e2.4	e1.9 e1.9 e2.0 e2.1 e2.4	e4.3 e4.4 e4.6 e4.6 e4.5	e1.9 e1.7 e1.5 e1.4	e9.0 e11 e12 e13 e14	59 57 62 56 50	28 27 26 26 23	5.5 5.5 6.2 6.2 5.9	2.5 2.5 2.5 2.5 2.7	5.2 5.2 5.5 5.5 4.3
11 12 13 14 15	6.2 5.9 5.9 5.9 5.5	4.5 4.5 3.9 4.9 4.6	e2.5 e2.5 e2.5 e2.3 e2.1	e2.9 e3.1 e2.9 e2.8 e2.9	e4.0 e3.5 e3.3 e3.4 e3.5	e1.5 e1.7 e2.0 e2.2 e2.1	e13 e17 e22 e22 e20	48 47 44 40 37	21 18 16 16 15		3.7 5.0 7.6 5.9 3.7	3.7 3.5 3.5 3.2 3.2
16 17 18 19 20	5.5 4.9 4.7 5.8 5.8	5.3 5.4 4.6 e2.3 e3.3	e2.2 e2.6 e2.7 e2.5 e2.4	e3.2 e3.7 e3.9 e4.0 e3.8	e3.4 e3.2 e2.8 e2.9 e3.3	e2.2 e2.1 e2.2 e2.2 e2.5	e21 e23 e24 e23 e26	35 35 34 33 30	14 14 13 13	10 8.2 7.8 5.5 4.9	3.2 3.2 5.2 4.9 5.8	3.0 3.0 3.5 3.2 2.7
		e2.9 e2.7 e2.5 e2.2 e2.8					e27 e27 e27 e28 27		12 11 13 12 10	4.0 3.5 3.2 3.2 3.5	8.2 9.1 8.6 8.2	2.7 3.0 2.5 2.5 2.3
26 27 28 29 30 31	5.5 5.6 5.5 5.9 4.8 5.6	e3.6 e3.8 e4.0 e4.0 e4.0	e3.0 e3.0 e3.0 e2.9 e2.6 e2.4	e3.5 e3.4 e3.6 e3.2 e2.9 e2.9	e2.4 e2.5 e2.4 e2.3	e3.8 e3.6 e3.5 e3.4 e3.3 e3.6	29 34 37 40 42	e45 e42 e42 e39 e38 e37	11 12 10 9.1 8.2	3.5 4.0 3.2 3.0 2.7 3.0	13 9.5 8.2 7.0 6.2 6.2	2.3 2.1 2.1 2.3 2.3
TOTAL MEAN MAX MIN AC-FT	188.6 6.08 7.8 4.7 374	123.5 4.12 5.5 2.2 245	81.8 2.64 3.6 2.1 162	89.6 2.89 4.0 1.7 178	99.9 3.44 4.8 2.2 198	75.7 2.44 3.8 1.4 150	616.3 20.5 42 4.1 1220	1304 42.1 62 28 2590	556.3 18.5 36 8.2 1100	176.5 5.69 12 2.7 350	169.2 5.46 13 2.5 336	109.0 3.63 6.2 2.1 216
STATIST	TICS OF M	ONTHLY MEA	N DATA F	OR WATER Y	EARS 1923	- 2000,	BY WATER	YEAR (WY				
MEAN MAX (WY) MIN (WY)	4.94 16.1 1939 1.99 1951	4.29 10.0 1958 1.82 1956	3.04 6.50 1966 1.30 1964	2.72 6.00 1966 .000 1977	3.09 6.00 1958 .86 1972	5.08 12.0 1924 1.50 1964	14.8 44.4 1924 6.25 1967	45.8 130 1942 8.36 1981	39.3 102 1941 6.34 1954	12.3 61.9 1957 2.61 1950	8.06 42.3 1957 .81 1950	5.15 25.6 1957 1.08 1956
SUMMARY				1999 CALEN	DAR YEAR	F	OR 2000 WA	TER YEAR		WATER YE	ARS 1923	- 2000
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				5091.1 13.9 86 1.9 1.9 10100 41 6.6 2.3			3590.4 9.81 62 1.4 1.7 72 1.47 7120 4.6 2.3			12.4 25.4 4.36 363 a.00 .00 407 b3.88 8960 32 4.7 2.3		1924 1981 14 1941 30 1976 30 1976 14 1941 14 1941
e Esti	mated.											

e Estimated.

a Also occurred Dec 31 1976 to Jan 31, 1977.

b Maximum gage-height, 5.04 ft, May 11 1947, site and datum then in use, backwater from beaver dam.

CLOSED BASIN IN SAN LUIS VALLEY, CO

08227000 SAGUACHE CREEK NEAR SAGUACHE, CO

LOCATION.--Lat $38^{\circ}09^{\circ}48^{\circ}$, long $106^{\circ}17^{\circ}24^{\circ}$, 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.

		DISCHAR	GE, CUBIC	C FEET PER		WATER YE MEAN VA	AR OCTOBER	1999 TO :	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	46	38	e27	e28	36	42	108	96	43	25	39
2	60	44	40	e25	e28	34	42	96	98	41	24	35
3	59	39	36	e25	e30	36	47	114	99	44	25	33
4	58	39	31	e26	e28	32	47	119	90	42	32	32
5	58	41	37	e27	e28	36	56	135	84	36	28	31
6	59	40	32	e27	e29	38	72	153	82	33	25	33
7	65	39	26	e27	e29	36	75	146	75	32	23	33
8	69	39	30	e28	e29	38	72	165	72	36	22	35
9	60	43	33	e28	e30	36	70	181	74	40	21	36
10	56	36	33	e32	e29	34	81	150	75	38	20	33
11	53	35	32	e33	e28	33	78	146	67	34	21	29
12	51	37	34	e32	e27	36	68	144	64	38	25	28
13	49	35	34	e30	e26	40	69	125	59	42	27	27
14	49	35	36	e29	e29	38	79	113	57	39	35	26
15	48	35	30	e30	e31	40	83	108	54	43	29	25
16	48	34	e27	e31	32	41	70	107	51	44	28	25
17	46	33	e28	e33	32	38	68	108	49	47	30	24
18	46	40	e30	e34	33	36	82	106	48	57	35	25
19	48	28	e28	e35	33	37	82	108	52	50	37	27
20	47	27	e26	e32	e32	42	69	100	51	39	38	26
21	47	34	e24	e31	34	42	72	96	47	34	41	26
22	46	27	e24	e29	33	42	82	105	43	31	47	26
23	47	25	e25	e28	35	42	75	133	44	29	56	27
24	46	24	e27	e29	35	48	75	153	49	30	60	32
25	46	27	e29	e33	e32	50	76	149	51	31	42	33
26 27 28 29 30 31	46 46 46 43 42	30 39 37 37 37	e29 e28 e27 e27 e27 e29	e32 e29 e27 e25 e26 e26	e32 e33 35 34 	52 52 59 57 53 51	79 90 106 104 112	130 113 110 116 116 108	53 52 50 46 43	31 32 27 25 26 26	44 53 48 43 46 43	31 30 29 30 30
TOTAL	1591	1062	937	906	894	1285	2223	3861	1875	1140	1073	896
MEAN	51.3	35.4	30.2	29.2	30.8	41.5	74.1	125	62.5	36.8	34.6	29.9
MAX	69	46	40	35	35	59	112	181	99	57	60	39
MIN	42	24	24	25	26	32	42	96	43	25	20	24
AC-FT	3160	2110	1860	1800	1770	2550	4410	7660	3720	2260	2130	1780
STATIST	CICS OF MC	NTHLY MEA	N DATA FO	OR WATER Y	EARS 1910	- 2000,	BY WATER	YEAR (WY)				
MEAN	44.5	35.8	26.0	23.4	26.7	38.6	68.5	156	174	94.1	73.5	51.3
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
SUMMARY	STATISTI	CS	FOR 1	1999 CALEN	IDAR YEAR	F	OR 2000 WAT	TER YEAR	(a)WATER YE	ARS 1910	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		AN AN MINIMUM CAK FLOW CAK STAGE AC-FT) CDS		29858 81.8 269 20 23 59220 188 48 27	Jul 25 Feb 11 Feb 11		17743 48.5 181 20 22 193 2.58 35190 96 37 27	May 9 Aug 10 Aug 6 May 8 May 8		67.7 122 28.0 678 7.0 8.3 b1220 5.53 49050 148 41 21	Jan Jan Jul 2	1924 1940 7 1957 7 1977 6 1977 25 1999 25 1999

e Estimated.

a Water years 1983-1990 were published by Colorado Division of Water Resources.

b Present datum, from rating curve extended above 1090 ft³/s.

CLOSED BASIN IN SAN LUIS VALLEY

08231000 LA GARITA CREEK NEAR LA GARITA, CO

LOCATION.--Lat $37^{\circ}48^{\circ}48^{\circ}$, long $106^{\circ}19^{\circ}04^{\circ}$, in $NW^{1}/_{4}SE^{1}/_{4}$ sec.9, T.41 N., R.6 E., Saquache County, Hydrologic Unit 13010004, on right bank 4.5 mi downstream from Little La Garita Creek and 4.5 mi southwest of La Garita.

DRAINAGE AREA. -- 61 mi², approximately.

PERIOD OF RECORD.--April 1919 to September 1981. October 1998 to current year. No winter records prior to water year 1948 except water years 1926, 1941, and 1945-46. Monthly discharge only for some periods, published in WSP 1312.

REVISED RECORDS. -- WSP 1312: 1946(M).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,030 ft above sea level, from topographic map. Apr. 1, 1919 to June 23, 1927, nonrecording gages, and June 24, 1927 to Nov. 13, 1935, water-stage recorder, at sites within 0.2 mi downstream at different datums. Nov. 14, 1935 to Nov. 16, 1966, water-stage recorder at present site at datum 1.00 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.

		DISCHA	RGE, CUBI	C FEET PEF		WATER YE MEAN VA		R 1999 TO	SEPTEMBE	R 2000	5	-
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	11 11 11 10 11	8.5 8.0 7.5 7.7	e5.2 e5.0 e4.9 e4.8 e4.7	e5.0 e4.8 e4.6 e4.6 e4.8	e5.4 e5.8 e5.6 e5.6 e5.8	e6.8 e6.8 e7.2 e6.9	7.6 6.6 7.2 7.6	15 17 32 28 32	9.2 9.5 9.3 8.5 8.6	7.7 6.1 5.8 4.9 4.3	3.2 3.2 3.1 3.3 4.6	6.7 6.0 5.5 5.2 5.1
6 7 8 9 10	12 16 16 14 12	7.9 7.7 8.2 8.3 6.7	e4.8 e4.8 e4.8 e4.8 e4.8	e4.6 e4.8 e5.0 e5.4	e5.8 e5.8 e5.8 e6.2 e6.0	e7.0 e7.2 e7.0 e6.8 e6.4	17 20 17 17 21	30 20 25 20 19	8.6 8.0 7.7 8.2 7.2	4.0 3.9 4.3 4.6 7.3	3.3 3.0 2.9 2.7 2.3	5.0 4.9 4.8 5.4 4.7
11 12 13 14 15	11 11 11 10 10	7.6 6.9 6.5 6.4 6.6	e5.0 e5.0	e5.0 e4.8 e5.4 e5.0 e5.2	e5.8 e5.6 e5.3 e6.0 e6.4	e6.6 e7.1 e7.0 e7.2 e7.2	18 13 18 22 23	25 20 16 15 15	6.9 6.8 6.8 6.8	5.5 4.8 5.2 5.6 4.9	3.0 3.3 8.2 6.2 5.8	4.1 3.8 3.7 3.5 3.5
16 17 18 19 20	9.9 9.5 10 9.7 9.1	6.5 7.4 7.2 5.4 e5.2	e5.4 e5.2	e5.6	e6.7 e6.4 e6.0 e6.0 e6.2	e6.9 e7.3 e7.0 e7.2 e7.4	15 20 29 26 14	15 15 14 13 13	6.7 6.6 6.8 6.8 5.6	4.5 7.5 8.0 4.7 4.0	5.2 5.9 11 10 6.8	3.5 3.4 3.6 4.1 3.5
21 22 23 24 25	9.3 9.2 9.0 8.6 8.5	e4.8 e4.8 e4.7 e4.7 e5.0	e4.8 e4.8 e5.0 e5.2 e5.6	e4 8	e6.6 e6.3 e6.6 e6.6 e6.1	e7.2 e7.5 e7.8 e8.0 e8.3	28 32 23 28 25	13 13 14 15 13	5.3 5.7 6.8 8.9 6.9	3.6 3.5 3.1 3.2 3.3	5.1 4.6 11 10 6.9	3.4 4.4 4.4 5.9 4.8
26 27 28 29 30 31	8.3 8.4 8.1 8.9 6.6 9.1	e5.2 e5.2 e5.2 e5.2 e5.2	e5.4 e5.2 e5.2 e5.2	e5.2	e6.3 e6.5 e6.8 e6.8	e8.4 e8.6 e8.2 e7.6 e7.0	22 29 33 26 23	13 12 11 11 10 9.5	6.9 9.0 7.0 6.2 6.3	3.3 3.6 3.3 3.2 3.4 4.2	11 7.4 7.8 7.9 19 8.8	4.5 4.2 4.1 4.6 5.9
TOTAL MEAN MAX MIN AC-FT	319.2 10.3 16 6.6 633	194.0 6.47 8.5 4.7 385	156.8 5.06 5.6 4.7 311	155.9 5.03 5.6 4.3 309	176.8 6.10 6.8 5.3 351	225.7 7.28 8.6 6.4 448	600.0 20.0 33 6.6 1190	533.5 17.2 32 9.5 1060	220.6 7.35 9.5 5.3 438	145.3 4.69 8.0 3.1 288	196.5 6.34 19 2.3 390	136.2 4.54 6.7 3.4 270
				OR WATER Y							45.0	
MEAN MAX (WY) MIN (WY)	7.04 42.6 1924 1.46 1957	5.27 18.5 1970 1.80 1941	3.93 8.72 1970 .70 1964	3.37 6.60 1966 .50 1964	4.09 8.00 1962 .50 1964	5.77 9.94 1972 1.50 1964	17.1 126 1924 6.08 1978	46.4 211 1924 4.80 1967	31.2 126 1921 2.96 1963	14.9 65.3 1921 2.30 1963	15.8 70.2 1929 2.07 1940	8.81 52.4 1923 .85 1956
SUMMAR	Y STATIST	CICS	FOR	1999 CALEN	IDAR YEAR	F	OR 2000 W	ATER YEAR		WATER Y	EARS 1919	- 2000
ANNUAL HIGHES' LOWEST HIGHES' LOWEST ANNUAL INSTAN ANNUAL 10 PER-				7334.7 20.1 102 3.5 3.9 14550 54 10 4.5	Aug 9 Jan 9 Feb 11		3060.5 8.31 33 2.3 2.9 138 3.00 6070 16 6.6 4.2	Apr 28 Aug 10 Aug 6 Aug 18 7 Aug 18		12.6 30.8 4.1 398 .2 .4 a530 b4.0 9130 36 6.6 3.0	2 May: 0 Sep: 3 Sep: Jul 0 Jul	1941 1951 16 1941 28 1956 27 1956 9 1957 9 1957

e Estimated.

a From rating curve extended above 140 ${\rm ft^3/s.}$ b $\,$ At present datum.

CLOSED BASIN IN SAN LUIS VALLEY, CO

372833105455800 CLOSED BASIN PROJECT CANAL NEAR ALAMOSA, CO

LOCATION.--Lat $37^{\circ}28^{\circ}33^{\circ}$, long $105^{\circ}45^{\circ}58^{\circ}$, in $SW^{1}/_{4}SW^{1}/_{4}$ sec. 3, T.37 N., R.11 E., Alamosa County, Hydrologic Unit 13010002, on right bank of Closed Basin Project Canal, 400 ft north of State Highway 160, and 5.5 mi east of Alamosa.

DRAINAGE AREA. -- Indeterminate.

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

GAGE.--Water-stage recorders with satellite telemetry, and 12 ft Parshall flume. Elevation of gage is 7531.15 ft (levels by U.S. Bureau of Reclamation).

REMARKS.--Records good except for estimated daily discharges, which are poor. The Closed Basin Project Canal delivers water from the Closed Basin in the San Luis Valley to the Rio Grande just downstream from Alamosa. Shallow (unconfined) aquifer water is pumped into the canal by a system of pumps.

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

		DISCHAR	GE, CUBIC	FEET PER		VATER YE. MEAN VA	AR OCTOBER LUES	1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	38 37 37 37 36	17 12 16 17 23	16 14 15 16 21	33 35 e33 36 35	37 37 e36 e36 e36	33 35 35 35 34	32 32 32 33 33	30 30 30 29 27	17 15 17 19 23	15 21 22 21 19	11 11 13 13	21 22 21 20 18
6 7 8 9	34 37 42 40 37	20 20 20 19 19	28 21 24 29 32	34 35 34 34 33	e36 e36 e35 e35 e35	34 34 35 33 35	33 33 34 33 33	28 29 29 31 31	24 24 22 19 20	17 17 16 16 17	13 13 13 11	16 14 16 15 14
11 12 13 14 15	36 35 35 36 34	19 19 19 19	37 37 36 36 35	35 33 35 36 35	e35 e35 e34 e34 e34	33 32 30 27 27	31 31 31 28 30	29 31 31 28 26	21 22 22 22 22 22	17 17 16 17	9.7 8.9 11 12 13	13 16 21 20 16
16 17 18 19 20	32 35 35 35 38	18 20 18 17 16	35 36 35 35 35	35 35 35 35 35	35 33 34 31 34	28 30 32 32 30	30 30 28 33 34	22 23 25 26 27	22 21 19 17 17	17 16 19 21 21	12 10 11 14 17	9.5 9.3 8.8 7.6
21 22 23 24 25	41 38 32 31 32	16 16 16 15 15	32 29 30 33 35	33 33 33 33 32	33 33 34 33 34	30 31 31 31 31	32 31 32 31 31	26 25 24 23 23	18 18 18 18	22 22 23 23 23	17 19 14 14	6.5 6.5 6.1 6.7
26 27 28 29 30 31	32 34 33 32 27 26	15 17 17 17 18	35 35 37 36 36 35	33 36 37 36 36 36	35 35 33 33 	31 31 31 31 31 31	30 28 28 29 30	23 23 23 23 22 19	16 18 18 17 15	23 16 13 15 16 13	14 12 11 11 14 21	7.3 7.7 10 8.4 7.6
TOTAL MEAN MAX MIN AC-FT	1084 35.0 42 26 2150	529 17.6 23 12 1050	946 30.5 37 14 1880	1069 34.5 37 32 2120	1001 34.5 37 31 1990	984 31.7 35 27 1950	936 31.2 34 28 1860	816 26.3 31 19 1620	579 19.3 24 15 1150	568 18.3 23 13 1130	402.6 13.0 21 8.9 799	382.0 12.7 22 6.0 758
STATIST	ICS OF MO	NTHLY MEA	N DATA FO	R WATER Y	EARS 1999	- 2000,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	31.2 35.0 2000 27.5 1999	24.6 31.6 1999 17.6 2000	33.1 35.7 1999 30.5 2000	38.5 42.4 1999 34.5 2000	36.3 38.1 1999 34.5 2000	32.1 32.5 1999 31.7 2000	33.0 34.7 1999 31.2 2000	30.3 34.3 1999 26.3 2000	26.1 32.9 1999 19.3 2000	26.7 35.1 1999 18.3 2000	20.5 28.1 1999 13.0 2000	22.9 33.0 1999 12.7 2000
SUMMARY	STATISTI	CS	FOR 1	999 CALEN	DAR YEAR	F	OR 2000 WAT	TER YEAR		WATER Y	EARS 1999	- 2000
ANNUAL HIGHEST LOWEST HIGHEST LOWEST ANNUAL INSTANTI ANNUAL 10 PERC 50 PERC	SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) LO PERCENT EXCEEDS DO PERCENT EXCEEDS DO PERCENT EXCEEDS			11987 32.8 51 12 16 23780 41 34 22	Jun 9 Nov 2 Nov 20		9296.6 25.4 42 6.0 6.7 44 a.99 18440 35 28	Oct 8 Sep 25 Sep 20 Oct 21 Oct 21		29.6 33.8 25.4 e63 6.0 6.7 101 b1.7 21440 39 31	Dec 2 Sep 2 Sep 2 Dec 2	1999 2000 21 1998 25 2000 20 2000 21 1998 21 1998

e Estimated.

a Maximum gage height, 1.54 ft, Jan 3, backwater from ice. b Maximum gage height, 1.86 ft, Jan 27, 1990, due to submergence of flume.

08242500 UTE CREEK NEAR FORT GARLAND, CO

LOCATION.--Lat 37°26'50", long 105°25'30", Costilla County, Hydrologic Unit 13010002, in Sangre de Cristo Grant, on left bank 2,300 ft upstream from Newton ditch, 1.4 mi north of Fort Garland, and 5.7 mi upstream from mouth.

DRAINAGE AREA.--32 mi², approximately.

PERIOD OF RECORD.--March to October 1916, May 1923 to September 1981, October 1998 to current year. Monthly discharge only for some periods, published in WSP 1312.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Elevation of gage is 8,045 ft above sea level, from topographic map. Mar. 18 to Oct. 9, 1916, nonrecording gage and Cippoletti weir at different datum.

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

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

		DISCHA	RGE, CUBI	C FEET PER		MEAN VA		R 1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	11 11 9.2 8.1 7.9	8.9 8.4 8.1 8.2 8.0	e5.6 e5.2 e3.8 e3.6 e3.6	e5.0 e4.7 e4.4 e4.5 e4.5	e4.5 e4.3 e4.8 e4.8 e5.0	e5.2 e5.0 e5.0 e5.4 e5.0	e7.4 e8.0 e8.8 10	16 13 17 23 26	16 17 16 15	5.5 4.5 4.3 3.6 2.9	4.5 3.9 3.6 4.0 1.9	3.9 3.7 3.7 3.6 4.1
6 7 8 9 10			e3.9 e4.0 e3.9 e3.9 e4.6	e4.3 e4.3 e4.7 e4.6 e5.0	e5.0 e4.3 e5.6 e5.4 e5.4	e5.4 e5.4 e5.2 5.2 4.5	14 13 12 12 13	23 18 21 17 15	14 14 11 11	2.7 2.6 2.7 2.3 2.3	1.7 1.9 2.2 1.8	3.2 3.1 3.5 5.7 4.1
11 12 13 14 15	10 10 9.8 9.7 9.5	7.6 7.3 7.4 7.2 7.3	e4.5 e4.4 e4.4 e4.2 e4.2	e5.4 e5.4 e5.2 e5.0 e5.2	e5.2 e5.2 e5.0 e5.4 e5.6	e4.8 e5.4 e5.4 e5.8 e5.6	13 12 12 13 14	20 19 15 13 14	8.4 8.2 8.0 7.3 6.7	2.1 2.8 4.3 5.8 5.5	1.2 3.9 6.8 4.2 7.5	3.4 3.4 3.4 2.8 2.7
16 17 18 19 20	9.5 9.7 11 12 11	7.2 6.8 7.0 4.5 6.3	e4.6 e5.0 e5.2 e4.8 e4.6	e5.6 e5.6 e5.6 e5.4	e5.4 e5.0 e5.0 e5.0 e5.4	e5.0 e5.4 e4.8 e5.4 e5.2	12 12 13 14 12				3.9 2.7 4.7 25 7.2	
21 22 23 24 25	11 10 10 9.9 9.8	6.3 6.1 5.0 4.3 e2.1	e4.2 e4.4 e4.4 e4.8 e5.2	e5.2 e5.0 e4.8 e5.0 e5.2	e5.8 e5.4 e5.4 e5.4 e4.6	e4.8 e5.2 e5.8 e6.6 e6.8	13 14 14 12 10	12 16 20 24 22	6.6 5.8 5.3 5.0 5.3	3.7 3.1 3.5 3.3 2.7	5.7 10 8.1 9.6 7.8	2.7 11 6.9 6.5 5.1
26 27 28 29 30 31	9.6 9.5 9.2 9.2 7.9 9.2	e6.0 e7.0 e6.2 e5.4 e5.0	e5.2 e4.9 e4.9 e5.0 e5.0	e5.2 e4.8 e4.3 e4.0 e4.0 e4.3	e4.8 e5.4 e5.4 e5.0	e7.2 e7.8 e7.4 e7.2 e6.8 e6.6	11 16 26 24 23	19 17 16 18 17 16	4.8 7.3 7.4 6.1 5.4	4.3 16 9.4 3.7 6.1 5.3	6.0 4.9 4.0 4.0 4.2 4.3	2.9 2.6 2.4 3.4 3.3
TOTAL MEAN MAX MIN AC-FT	302.3 9.75 12 7.4 600	201.9 6.73 8.9 2.1 400	141.2 4.55 5.6 3.6 280	151.8 4.90 5.6 4.0 301	148.5 5.12 5.8 4.3 295	176.3 5.69 7.8 4.5 350	401.2 13.4 26 7.4 796	523.5 16.9 26 9.5 1040	273.0 9.10 17 4.8 541	142.6 4.60 16 2.1 283	162.13 5.23 25 .93 322	112.6 3.75 11 2.2 223
MEAN MAX (WY) MIN (WY)	10.1	7.76	5.15 10.5 1971 .50 1957	4.62 9.50 1962 1.60 1957	5.03 10.0 1962 2.00 1956	7.30 12.6 1960 3.16 1957	21.9 66.9 1932 4.69 1955	53.9 220 1941 8.57 1950	56.2 150 1941 5.87 1963	29.7 97.0 1941 1.01 1956	20.6 65.5 1936 2.13 1956	12.8 45.7 1929 .070 1956
SUMMARY	Y STATIST	ICS	FOR	1999 CALEN	IDAR YEAR	F	OR 2000 W	ATER YEAR		WATER Y	EARS 1923	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT ANNUAL 10 PERC 50 PERC	MEAN F ANNUAL MANNUAL ME F DAILY ME DAILY ME SEVEN-DA FANEOUS P	EAN EAN AN Y MINIMUM EAK ELOW		7658.5 21.0 97 2.1 3.8 15190 64 9.7 4.6	Jun 17 Nov 25 Dec 3		2737.03 7.48 26 .93 1.7 44 2.13 5430 14 5.4 3.4	3		19.6 50.2 5.1 630 .C a630 14210 53 8.6 4.0	May 00 Jul 00 Sep May	1941 1956 15 1941 28 1956 6 1956 15 1941

e Estimated.

a Maximum daily discharge.

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.

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

		DISCHA	RGE, CUBI	C FEET PER		WATER YI	EAR OCTOBER	2 1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	53 36 28 43 53	e7.4	e7.4 e7.4	e7.3 e7.3 e7.3 e7.3	e7.2 e7.2 e7.2 e7.2 e7.2	e7.1 e7.1 e7.1 e7.1	e7.1 e7.1 e7.1 e7.1 e7.1	e142 76 84 156 269	422 225 168 236 279	81 81 64 61 84	117 135 127 112 92	42 34 30 30 28
6 7 8 9 10	60 70 53 42 33	e7.4 e7.4 e7.4 e7.4 e7.4	e7.4 e7.4 e7.4 e7.4 e7.4	e7.3 e7.3 e7.3 e7.3 e7.3	e7.2 e7.2 e7.2 e7.2 e7.2	e7.1 e7.1 e7.1 e7.1 e7.1	e11 15	318 241 168 177 171	275 232 236 245 232	111 139 133 143 147	85 84 104 107 107	34 32 30 32 37
11 12 13 14 15	32 56 66 59 55	e7.4 e7.4 e7.4 e7.4	e7.4 e7.4 e7.4 e7.4 e7.4	e7.3 e7.3 e7.3 e7.3 e7.3	e7.2 e7.2 e7.2 e7.2 e7.2	e7.1 e7.1 e7.1 e7.1		198 228 227 174 148	166 167 232 240 228	152 152 153 151 147	108 104 103 118 128	39 39 32 30 22
16 17 18 19 20	47 43 49 58 66	e7.4 e7.4 e7.4 e7.4	e7.4 e7.4 e7.4 e7.4 e7.4	e7.3 e7.3 e7.3 e7.3	e7.2 e7.2 e7.2 e7.2 e7.2	e7.1 e7.1 e7.1 e7.1	54 56 56 44 36	170 185 152 101 105	243 219 168 121 133	132 110 100 88 83	108 81 73 72 72	11 6.7 8.7 16 18
21 22 23 24 25	82 108 118 118 125	e7.4 e7.4	e7.4 e7.4 e7.4	e7.3 e7.3	e7.2 e7.2 e7.2	e7.1 e7.1 e7.1 e7.1	36 58 83 90 90	147 202 327 508 594	187 182 158 129 127	83 65 41 71 113	56 45 56 64 77	14 14 16 25 30
26 27 28 29 30 31	131 133 133 83 24 6.7	e7.4 e7.4 e7.4 e7.4 e7.4	e7.4 e7.4 e7.4 e7.4 e7.4	e7.3 e7.3 e7.3 e7.3 e7.3 e7.3	e7.2 e7.2 e7.2 e7.2	e7.1 e7.1 e7.1	e94 e115 188 e223 e187	591 385 182 182 363 467	147 127 103 103 90	133 142 117 98 109 108	73 68 68 56 41 39	29 24 22 22 15
TOTAL MEAN MAX MIN AC-FT	2063.7 66.6 133 6.7 4090	221.6 7.39 7.4 7.0 440	229.4 7.40 7.4 7.4 455	226.3 7.30 7.3 7.3 449	208.8	220.1 7.10 7.1 7.1 437	1730.6 57.7 223 7.1 3430	7438 240 594 76 14750	5820 194 422 90 11540	3392 109 153 41 6730	2680 86.5 135 39 5320	762.4 25.4 42 6.7 1510
STATIS	TICS OF M	ONTHLY MEA	AN DATA F	OR WATER Y	EARS 1952	- 2000	, BY WATER	YEAR (WY)			
MEAN MAX (WY) MIN (WY)	41.3 158 1958 1.92 1957	61.5 406 1966 2.00 1957	10.8 50.0 1986 2.00 1957	11.1 50.0 1986 3.20 1991	11.8 102 1983 3.00 1957	10.5 27.5 1986 3.00 1957	52.8 252 1995 3.00 1957	239 492 1974 16.9 1958	335 609 1982 87.0 1977	218 610 1952 24.9 1972	92.0 429 1952 9.19 1972	46.4 164 1982 3.34 1956
SUMMAR	Y STATIST	rics	FOR	1999 CALEN	IDAR YEAR]	FOR 2000 WA	TER YEAR		WATER YEA	ARS 1952	- 2000
ANNUAL HIGHES LOWEST ANNUAL INSTAN ANNUAL 10 PEF 50 PEF	TANEOUS P	EAN EAN AN Y MINIMUM EAK FLOW EAK STAGE AC-FT) EDS		34417.5 94.3 704 6.7 7.0 68270 275 39 7.1	Oct 31		24992.9 68.3 594 6.7 e7.1 606 3.05 49570 178 30 7.1	May 25 Oct 31 Mar 1 May 25 May 25		93.4 137 44.3 1150 a.00 .16 1160 b4.02 67640 316 17 6.2	Oct 1 Oct 1 Nov	1986 1977 28 1957 16 1955 15 1955 1 1957 1 1957
e Est	imated.											

a Also occurred Oct 17-20, 1955. b Maximum gage height, 4.29 ft, Jun 15, 1958.

08246500 CONEJOS RIVER NEAR MOGOTE, CO

LOCATION.--Lat $37^{\circ}03^{\circ}14^{\circ}$, long $106^{\circ}11^{\circ}13^{\circ}$, in $SE^{1}/_{4}SE^{1}/_{4}$ 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).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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

			,		DAILY	MEAN VA	ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111	67	e47	e38	e45	50	78	434	902	210	141	89
2	114	60	e44	e36	e46	50	70	372	733	184	154	84
3	99	57	e40	e33	47	48	70	351	526	171	175	74
4	91	54	e38	e32	43	53	74	495	533	136	160	66
5	102	54	e34	e36	46	58	114	690	552	126	139	63
6	110	53	e35	e34	45	56	145	838	581	149	121	61
7	146	53	e37	e35	43	54	159	772	514	172	115	63
8	148	53	e35	e36	43	51	177	769	448	216	111	63
9	120	55	e33	e36	46	53	172	617	528	187	132	88
10	108	49	e35	e39	50	51	205	605	503	204	123	78
11	96	50	e35	e41	44	46	200	706	418	197	136	71
12	94	49	e33	e40	41	51	182	738	322	212	142	70
13	113	47	e33	e38	46	51	213	656	351	219	159	67
14	117	47	e25	e38	42	54	247	580	402	255	197	62
15	112	47	e24	e41	49	59	240	506	366	239	212	58
16	108	47	e31	e41	50	61	199	519	356	250	202	53
17	103	46	e33	e42	48	59	207	486	363	226	165	46
18	101	50	e33	e43	e44	60	238	431	300	179	177	39
19	107	39	e29	e43	e46	54	233	376	282	159	182	37
20	110	40	e29	e41	e50	64	199	327	225	129	149	38
21	119	46	e27	e40	53	56	220	399	247	124	131	43
22	137	40	e26	e39	50	59	241	590	285	119	132	64
23	164	24	e29	e37	50	56	251	889	250	99	116	67
24	170	e35	e31	e38	51	63	297	1250	235	90	131	81
25	171	e40	e33	e40	41	72	311	1330	218	112	136	74
26 27 28 29 30 31	180 184 183 186 117 82	e45 e50 e50 e48 e48	e35 e35 e37 e39 e36 e34	e41 e39 e35 e33 e35 e38	43 e42 e49 49	83 92 104 94 94 78	326 400 484 562 535	1290 1080 775 785 825 966	207 275 230 228 225	162 192 194 147 138 160	159 130 126 127 108 101	71 68 63 58 58
TOTAL	3903	1443	1045	1178	1342	1934	7049	21447	11605	5357	4489	1917
MEAN	126	48.1	33.7	38.0	46.3	62.4	235	692	387	173	145	63.9
MAX	186	67	47	43	53	104	562	1330	902	255	212	89
MIN	82	24	24	32	41	46	70	327	207	90	101	37
AC-FT	7740	2860	2070	2340	2660	3840	13980	42540	23020	10630	8900	3800
STATIST MEAN MAX (WY) MIN (WY)	118 515 1905 34.7 1957	94.7 467 1966 29.9 1931	51.6 116 1987 26.9 1977	47.9 116 1986 22.7 1918	9EARS 1903 51.7 159 1983 30.0 1904	- 2000, 80.1 153 1989 41.0 1904	316 800 1936 138 1970	YEAR (WY) 1097 2053 1937 358 1977	1288 3163 1920 118 1934	478 1502 1957 69.2 1904	209 626 1952 44.2 1972	132 484 1927 26.8 1956
, ,	STATISTI				NDAR YEAR		FOR 2000 W		1731		EARS 1903	
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC		CAN CAN CAN CAN CAN CAN CAK FLOW CAK STAGE CC-FT) CDS CDS		112675 309 1720 24 29 223500 971 137 40	Jun 15 Nov 23 Dec 14		62709 171 1330 24 29 1450 124400 459 90 36	May 25 Nov 23 Dec 14 May 25 May 25		329 592 109 4490 10 17 a9000 b8.50 238100 1040 98 42	Jul 1 Jan 2 Oct	1920 1977 5 1905 .8 1904 26 1957 5 1911 5 1911

e Estimated.

a Present site and datum, from rating curve extended above 3100 ft^3/s .

b From floodmarks.

08247500 SAN ANTONIO RIVER AT ORTIZ, CO

LOCATION.--Lat $36^{\circ}59^{\circ}35^{\circ}$, long $106^{\circ}02^{\circ}17^{\circ}$, in $NE^{1}/_{4}SE^{1}/_{4}$ 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 mi^2 , 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, water-stage 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 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.

		DISCHA	RGE, CUBI	C FEET PER		WATER YE. MEAN VA		1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.4 1.5 1.4 1.3	2.6 3.0 3.0 2.6 2.6	e2.4 e2.2 e2.0 e1.6 e1.1	e.80 e.60 e.40 e.35 e.55	e2.6 e2.8 e3.0 e3.0	e3.8 e4.0 e5.0 e6.0 e5.0	12 11 10 11 19	49 48 39 35 32	.95 .98 .84 .79	.00 .00 .00 .00	.00 .00 .00 .00	.08 .00 .17 .35 .27
6 7 8 9 10	1.4 1.7 2.8 3.0 2.2	2.6 2.6 2.7 2.7 3.2	e1.2 e1.3 e1.2 e1.2 e1.3	e.45 e.50 e.60 e.60 e.80	e3.0 e3.0 e3.0 e3.0 e3.0	e5.6 e6.2 7.2 e6.8 e6.4	24 31 34 31 40	28 25 22 30 21	.77 .70 1.2 .99 .69	.00 .00 .00 .00	.00 .00 .00 .00	.12 .00 .00 .00
11 12 13 14 15	2.0 2.2 2.0 2.2 2.3	2.5 2.6 2.7 2.6 2.5	e1.3 e1.2 e1.2 e1.1 e1.0	e1.1 e1.0 e.90 e.90 e1.1	e3.0 e2.9 e2.9 e3.0 e3.2	e6.8 8.0 9.5 10	43 27 35 50 52	16 15 14 13	.62 .53 .32 .14 .04	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
16 17 18 19 20	2.3 2.5 3.0 3.5 3.2	2.6 3.0 2.8 e2.6 e2.8	e1.1 e1.1 e1.1 e1.0 e1.0	e1.1 e1.2 e1.4 e1.3 e1.3	e3.2 e3.1 e3.0 e3.1 e3.4	e9.6 9.9 9.2 e9.0 8.9	34 37 52 60 48	9.7 9.1 8.3 8.2 9.8	.00 .00 .00 .00	.00 .00 .21 1.2 .62	.00 .00 .00 .00	.00 .00 .00 .00
21 22 23 24 25	2.8 2.5 2.5 3.5 2.6	e2.7 e2.5 e2.4 e2.5 e2.6	e1.0 e1.0 e1.0 e1.1	e1.3 e1.2 e1.1 e1.2 e1.6	e3.7 e3.5 e3.5 e3.5 e3.1	6.7 5.7 5.3 6.2	58 67 58 67 68	9.8 7.3 5.4 4.5 3.9	.00 .00 .00 .00	.44 .26 .03 .00	1.5 1.1 .82 .61	.00 .00 .00 .00
26 27 28 29 30 31	2.6 2.6 2.7 2.8 2.7 2.6	2.8 2.7 2.6 2.8 e2.6	e1.2 e1.1 e1.1 e1.1 e1.0 e.80	e2.0 e1.8 e1.5 e1.3 e1.5 e2.0	e3.2 e3.5 e3.9 e3.8	18 29 31 22 25 23	49	3.6 3.7 3.4 2.7 2.2 1.6	.00 .00 .00 .00	.00 .00 .00 .00 .00	.69 .74 .49 .36 .29	.00 .00 .00 .31 .59
TOTAL MEAN MAX MIN AC-FT	73.1 2.36 3.5 1.3 145	80.5 2.68 3.2 2.4 160	38.10 1.23 2.4 .80 76	33.45 1.08 2.0 .35 66	91.9 3.17 3.9 2.6 182	330.8 10.7 31 3.8 656	1249 41.6 68 10 2480	491.2 15.8 49 1.6 974	10.33 .34 1.2 .00 20	2.76 .089 1.2 .00 5.5	8.27 .27 1.5 .00 16	1.89 .063 .59 .00 3.7
	CICS OF MC	NTHLY MEA	AN DATA F	OR WATER Y	EARS 1940 3.70	- 2000, 17.1	BY WATER	YEAR (WY) 17.1	0.00	2.92	1 00
MEAN MAX (WY) MIN (WY)	12.0 1987 .000 1952	13.9 1987 1.04 1956	2.72 8.12 1967 .48 1977	2.31 6.00 1965 .000 1977	3.70 13.0 1962 .25 1990	70.6 1997 2.50 1948	302 1962 22.2 1972	148 508 1941 4.05 1977	17.1 108 1957 .027 1977	2.03 12.0 1957 .000 1940	2.92 17.7 1957 .000 1951	1.28 4.42 1986 .000 1951
	STATISTI	CS	FOR	1999 CALEN		F	OR 2000 WA			WATER YEA	RS 1940	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME ANNUAL ME ANLY MEA SEVEN-DAY ANEOUS PE ANEOUS PE RUNOFF (A ENT EXCEE	CAN CAN CAN MINIMUM CAK FLOW CAK STAGE AC-FT) CDS CDS		.54 15610 72 3.3	May 14 Sep 13 Sep 8		.00 96 1.97 4780 23 1.6	Apr 25 Jun 16 Jun 16 Apr 25 Apr 25		25.7 61.8 3.35 1050 a.00 b.00 c1750 5.38 18630 64 3.1	Jun 2 Jun 2 Apr 1	1952 1977 13 1941 24 1940 24 1940 15 1937 15 1937
90 PERC e Esti	ENT EXCEE	DS .		1.1			.00	1		.00		

Also occurred Jun 25 to Aug 7, and Aug 19-23, 1940, and at times in most years. Also occurred for periods during each year, 1993-1996, 1998, 2000. From rating curve extended above 1100 ft³/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.

		DISCHA	RGE, CUBI	C FEET PER		WATER YE MEAN VA		R 1999 TO	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	20 20 19 19 19	18 17 16 15 16	e17 e15 e13 e11 e11	e12 e12 e10 e10 e12	e13 e14 e16 e15 e15	e17 17 18 17 17	29 27 27 31 41	232 232 270 306 330	77 69 65 59 54	27 23 20 17 14	12 11 11 11 11	11 10 9.1 9.2 8.3
6 7 8 9 10	19 29 29 23 21	16 16 16 18 15	e12 e12 e11 e12 e12	e11 e11 e12 e12 e13	e15 e15 e16 e16 e16	e17 17 17 16 17	54 63 75 91 123	320 282 328 298 254	51 47 41 45 51	13 13 16 16 15	10 11 10 9.1 8.9	7.9 7.6 7.6 13 12
11 12 13 14 15	20 19 19 18 18	16 16 16 16 15	e11 e11 e11 e9.6 e9.0	e14 e13 e12 e12 e13	e16 e15 e15 e16 e17	20 19 17 18 19	125 102 143 182 168	277 246 210 185 174	39 33 29 27 25	13 12 15 13 17	9.6 9.7 11 12 13	8.3 8.0 6.5 6.5
16 17 18 19 20	18 19 20 20 18	16 16 18 13	e10 e10 e10 e9.4 e9.4	e13 e13 e14 e13 e12	e17 e16 e15 e16 e17	20 19 19 22 20	118 129 180 188 153	167 149 129 127 117	22 21 20 23 25	15 18 17 13 12	16 18 20 22 20	5.9 6.4 6.8 6.4 5.7
21 22 23 24 25	18 18 18 17	17 e15 e12 e12 e12	e9.4 e9.4 e9.4 e10 e11	e12 e12 e11 e12 e13	e18 e18 e17 e19 e17	20 20 20 22 25	212 230 195 248 272	118 134 159 176 162	22 20 20 19 e19	11 11 11 11	15 16 18 13 15	6.2 12 14 15 13
26 27 28 29 30 31	17 17 16 17 16 16	e15 e17 e17 e17 e17	e12 e12 e12 e12 e11 e11	e13 e12 e11 e10 e11 e12	e16 e17 e19 e17	28 33 36 33 35 35	292 348 369 333 284	145 123 112 107 99 87	e18 20 27 26 26	12 13 12 12 12 12	14 13 12 12 12 12	11 11 11 10 10
TOTAL MEAN MAX MIN AC-FT	594 19.2 29 16 1180	473 15.8 18 12 938	345.6 11.1 17 9.0 685	373 12.0 14 10 740	469 16.2 19 13 930	670 21.6 36 16 1330	4832 161 369 27 9580	6055 195 330 87 12010	1040 34.7 77 18 2060	446 14.4 27 11 885	408.3 13.2 22 8.9 810	276.0 9.20 15 5.7 547
STATIST	CICS OF MC	NTHLY ME	AN DATA F	OR WATER Y	EARS 1915	- 2000,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	27.5 109 1987 10.1 1957	21.9 70.1 1987 11.1 1957	16.3 34.4 1987 5.00 1918	14.6 26.0 1987 5.00 1918	17.1 30.0 1962 7.50 1964	34.4 84.7 1971 13.9 1977	224 610 1936 65.9 1968	612 1341 1952 96.8 1977	331 1022 1957 25.2 1977	73.5 258 1957 13.2 1934	35.6 112 1929 11.9 1977	24.8 101 1927 7.53 1956
SUMMARY	STATISTI	.CS	FOR	1999 CALEN	DAR YEAR	F	OR 2000 W	ATER YEAR		WATER Y	EARS 1915	- 2000
ANNUAL HIGHEST LOWEST HIGHEST LOWEST ANNUAL INSTANT INSTANT ANNUAL	SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUI INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS			38263.6 105 765 e9.0 9.6 75900 316	May 20 Dec 15 Dec 17		15981.9 43.7 369 5.7 6.3 516 4.20 31700 144	Apr 28 Sep 20 Sep 15 Apr 27 Apr 27		120 230 28.7 2410 a4.0 4.4 b3160 c5.7 86810	Dec Dec May	1952 1977 13 1941 11 1989 11 1989 12 1941 12 1941
50 PERC		DS		34 15			16 10			25 12		

Estimated.
 A 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.
 Site and datum then in use, from rating curve extended above 1600 ft³/s.
 Maximum gage height, 6.19 ft, May 22, 1993, present site and datum.

08249000 CONEJOS RIVER NEAR LASAUSES, CO

LOCATION.—Lat $37^{\circ}18^{\circ}01^{\circ}$, long $105^{\circ}44^{\circ}47^{\circ}$, in $SW^{1}/_{4}SW^{1}/_{4}$ sec.2, and $SE^{1}/_{4}NE^{1}/_{4}$ 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.

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.

		DISCHAR	GE, CUBI	C FEET PER		WATER YE MEAN VA		R 1999 TO	SEPTEMBE	ER 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	40 34 29 30 29	29 29 29 28 28	49 48 51 47 45	48 e48 e46 e45 e46	67 64 64 67 69	74 76 75 72 74	22 24 21 24 21	72 41 27 24 21	3.8 7.2 6.9 5.3 4.4	.2 .21 .1 .03	.00 .00 .00 .00	.38 .22 .14 .09 .05
6 7 8 9 10	29 30 31 31 36	28 28 29 29 29	42 42 45 44 44	e46 e47 51 51 52	71 71 70 77 77	80 82 83 79 78	18 9.3 7.6 15 22	18 23 22 22 16	4.6 4.2 5.4 5.4 6.5	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
11 12 13 14 15	30 22 20 21 21	29 29 31 31 32	45 45 45 e42 e38	53 56 56 55 60	78 74 68 67 74	71 69 63 62 49	30 34 21 12 27	12 9.3 8.0 8.6 11	14 6.0 3.8 2.2 1.4	.00 .00 .01 .01	.00 .00 .00 .00	.00 .00 .00 .00
16 17 18 19 20	20 21 22 24 25	31 32 32 32 32 34	e40 41 40 42 41	61 65 70 73 71	76 75 73 68 68	47 42 41 39 37	31 19 11 6.2 6.2	11 9.7 19 24 11	.98 1.0 1.6 1.8 3.1	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
21 22 23 24 25	21 14 15 17 18	34 35 37 37 35	e38 e39 e41 40 39	72 74 71 65 75	71 79 76 72 71	36 38 39 22 20	5.4 6.5 6.9 9.8 19	9.3 9.0 8.8 10 26	1.8 1.2 1.1 .94 .87	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
26 27 28 29 30 31	19 21 22 23 23 25	35 35 37 40 50	42 42 43 44 46 46	86 83 74 64 65 64	66 63 69 78 	18 18 18 17 19 20	35 33 28 62 84	44 23 9.1 7.9 6.3 4.0	1.1 .75 .55 .52 .35	.00 .00 .00 .00 .00	.00 .00 .00 .18 .56	.00 .00 .00 .00
TOTAL MEAN MAX MIN AC-FT STATIST	763 24.6 40 14 1510	974 32.5 50 28 1930 NITHLY MEA	1336 43.1 51 38 2650 N DATA F	1893 61.1 86 45 3750 OR WATER Y	2063 71.1 79 63 4090 EARS 1921	1558 50.3 83 17 3090	670.9 22.4 84 5.4 1330 BY WATER	567.0 18.3 72 4.0 1120 YEAR (WY	98.76 3.29 14 .35 196	0.57 .018 .21 .00	1.48 .048 .74 .00 2.9	0.88 .029 .38 .00
MEAN MAX (WY) MIN (WY) SUMMARY	TISTICS OF MONTHLY MEAN DA 48.3 82.8 55 307 424 1 1942 1976 15 .11 8.92 16 1978 1978 15			62.0 146 1986 24.0 1964 1999 CALEN	78.7 186 1983 29.6 1964 DAR YEAR	104 261 1989 24.9 1957	247 1177 1924 1.49 1990 OR 2000 W	711 2642 1924 1.39 1972 ATER YEAR	562 1850 1935 .13 1977	145 1132 1957 .018 2000 WATER YE	50.9 413 1952 .000 1934 ARS 1921	39.2 425 1927 .000 1976
ANNUAL HIGHEST LOWEST HIGHEST LOWEST ANNUAL INSTANTI ANNUAL 10 PERC	(WY) 1978 1978 SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUN INSTANTANEOUS PEAK FLOW ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS			47923.2 131 846 6.1 7.6 95060 371 72 26	May 25 Apr 10 Apr 10			Jan 26 0 Jul 5 0 Jul 5 mined		182 451 17.2 3820 a.00 b.00 c3890 132100 518 57 1.4	Jun 2 Jul 2	1941 1977 15 1941 27 1934 21 1934 15 1941

e Estimated.

a Also occurred Jun 28 to Jul 1, Jul 3, and Jul 21 to Sep 8, 1934, and some days during 1994, 1996, 1998, 2000. b Also occurred in 1996, 1998, and 2000.

Gage height not determined.

08250000 CULEBRA CREEK AT SAN LUIS, CO

LOCATION.--Lat 37°11'01", long 105°25'31", Costilla County, Hydrologic Unit 13010002, on left bank at bridge 1 mi south of San Luis, and 1 mi upstream from the Rito Seco.

DRAINAGE AREA.--220 mi².

PERIOD OF RECORD.--April 1927 to September 1982. October 1998 to current year. Monthly discharge only for some periods, published in WSP 1312. Records for January 1910 to December 1911, published as Culebra River at San Luis in WSP 288 and 308, have been found to be unreliable and should not be used.

REVISED RECORDS. -- WSP 1312: 1940. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder with concrete control. Elevation of gage is 8,000 ft above sea level, from topographic map. Prior to May 23, 1931, water-stage recorder at present site at different datum.

REMARKS.--No estimated daily discharges. Records good. Diversions upstream from station for irrigation. Flow regulated by Sanchez Reservoir, capacity 103,000 acre-ft, on Ventero Creek.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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

		DISCHAR	GE, CUBIC	: FEET PER		MEAN VA	AR OCTOBER LUES	1999 10	SEPTEMBE	R 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	30 29 29 29 29	32 32 31 31 31	28 28 26 29 25	29 29 28 27 27	27 26 27 27 27	24 26 27 29 28	31 27 24 23 22	21 21 20 21 20	132 131 130 127 127	97 73 80 108 107	65 101 105 105 105	112 105 62 61 60
6 7 8 9 10	28 31 32 30 29	31 30 29 29 28	26 27 26 24 26	27 26 27 27 26	28 27 27 28 29	26 26 26 26 24	21 20 21 21 20	37 77 81 80 80	104 71 83 98 97	110 116 125 125 125	102 71 70 80 109	60 61 61 68 62
11 12 13 14 15	28 28 28 28 27	28 28 28 28 28	26 24 25 26 24	26 27 27 27 28	28 26 25 28 29	24 24 24 24 24	22 22 21 20 23	70 63 64 66 86	101 99 88 67 66	126 132 142 110 72	109 111 112 112 114	42 21 19 18 30
16 17 18 19 20	29 32 33 35 35	28 28 28 26 26	25 27 25 26 24	29 30 33 33 30	28 28 25 25 25	27 27 25 24 24	23 21 21 25 23	118 129 133 141 145	66 68 68 70 66	75 66 41 35 33	104 98 108 106 56	50 50 50 51 50
21 22 23 24 25	36 33 33 31 31	28 28 28 27 25	23 23 23 24 25	29 29 25 26 30	26 25 25 23 21	23 24 23 23 23	19 20 25 25 26	127 119 122 133 136	63 62 64 69 109	46 63 80 88 89	41 40 40 63 97	51 52 49 41 49
26 27 28 29 30 31	31 30 29 28 31 33	27 29 28 28 28	26 27 28 28 28 28	33 30 28 25 26 27	23 25 24 25 	22 22 22 25 28 33	23 23 22 21 21	138 139 132 133 133	110 120 122 119 116	91 95 81 63 63	113 111 111 110 110 113	59 59 62 72 73
TOTAL MEAN MAX MIN AC-FT				871 28.1		777 25.1 33 22 1540	676 22.5 31 19 1340	2918 94.1 145 20 5790	2813 93.8 132 62 5580	2719 87.7 142 33 5390	2892 93.3 114 40 5740	1660 55.3 112 18 3290
STATIST	CICS OF MC	ONTHLY MEA	N DATA FO	OR WATER Y	YEARS 1927	- 2000,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	22.4 36.7 1942 6.00 1951	21.6 51.4 1958 6.63 1951	18.7 39.1 1958 6.64 1952	18.3 32.2 1942 7.03 1951	18.7 32.6 1942 6.70 1951	19.5 36.2 1942 7.42 1951	18.8 48.3 1942 7.79 1951	53.6 137 1930 11.7 1955	135 303 1942 40.1 1963	110 231 1942 30.4 1977	81.6 184 1949 27.3 1976	32.0 69.2 1945 9.49 1972
SUMMARY	STATISTI	CS	FOR 1	L999 CALEN	IDAR YEAR	F	OR 2000 WA	TER YEAR		WATER YEA	ARS 1927	- 2000
LOWEST HIGHEST LOWEST ANNUAL INSTANT ANNUAL 10 PERC 50 PERC	MEAN ANNUAL ME ANNUAL ME DAILY ME DAILY ME SEVEN-DAY ANEOUS PE	CAN CAN AN MINIMUM CAK FLOW CAK STAGE AC-FT) CDS		16731 45.8 165 17 18 33190 107 28 19	Jul 20 Mar 31 Apr 7		18684 51.0 145 18 21 152 1.83 37060 112 29 23	May 20 Sep 14 Apr 29 May 19 May 19		45.9 92.7 18.2 479 4.6 5.0 a654 5.09 33240 118 25 11	Oct Oct Jul	1942 1951 1 1942 31 1950 22 1950 1 1947 1 1947

a $\,$ From rating curve extended above 300 $\,$ ft $^3/s$.

08251500 RIO GRANDE NEAR LOBATOS, CO

LOCATION.--Lat $37^{\circ}04^{\circ}43^{\circ}$, long $105^{\circ}45^{\circ}23^{\circ}$, in $NE^{1}/_{4}NW^{1}/_{4}$ 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.

22 001211	DE PERIOD			_			VEAD OCHODED			3D 2000		
		DISCHA	RGE, CUB.	IC FEET PE		MEAN V	YEAR OCTOBER VALUES	1999 10	SEPTEMBE	SR 2000		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	640	435	491	e320	e340	407	162	323	254	76	16	8.5
2	627	457	460	e310	e390	394	200	302	199	58	15	8.6
3	578	457	e410	e310	e430	383	224	244	194	51	15	10
4	555	413	e410	e300	e430	385	257	236	198	53	15	13
5	524	362	e390	e310	e430	382	272	215	160	51	15	13
6	510	340	e300	e280	435	380	229	196	141	41	13	13
7 8	508	326	e310	e280	415	394 395	187	259	121	38	12	11
	523	321	e300	e280	405		164	267	153	35	12	8.8
9 10	534 536	309 348	e270 e310	e290 e300	385 425	375 299	171 172	221 196	151 132	29 27	10 9.9	11 9.9
11	490	454	e320	e310	410	265	178	195	115	25	9.8	8.4
12	439	459	e310	e320	380	252	191	165	120	24	9.7	9.8
13	403	444	e310	e330	380	234	194	156	122	23	9.5	12
14	401	439	e300	e340	380	226	175	208	118	23	8.6	9.4
15	398	429	e260	e350	373	209	164	186	102	23	9.1	8.6
16	410	467	e290	e360	388	177	174	158	83	22	7.8	12
17	393	494	e320	e380	389	185	176	147	77	24	7.0	15
18	408	497	e340	e390	391	174	164	145	72	25	7.8	14
19	473	440	e330	e410	380	168	138	187	74	24	13	16
20	493	431	e340	e430	363	168	132	169	93	23	13	15
21	472	425	e330	e420	362	145	160	157	89	28	8.7	14
22	398	402	e320	e410	373	169	203	160	92	27	8.9	13
23	376	412	e330	e390	390	177	172	169	74	24	8.0	15
24	381	411	e320	e400	387	170	172	182	59	23	12	12
25	376	e425	e320	e400	396	152	172	189	68	22	16	10
26	379	407	e320	e400	387	150	200	191	67	24	13	13
27	384	404	e310	e400	362	145	251	180	87	26	9.3	21
28	390	411	e310	e440	366	144	231	234	88	26	11	31
29	410	457	e320	e420	394	138	228	194	92	20	10	28
30	391	485	e310	e390		128	277	204	85	16	9.7	23
31	397		e310	e330		129		243		16	9.2	
TOTAL	14197	12561	10271	11000	11336	7499	5790	6278	3480	947	344.0	407.0
MEAN	458	419	331	355	391	242	193	203	116	30.5	11.1	13.6
MAX	640	497	491	440	435	407	277	323	254	76	16	31
MIN AC-FT	376 28160	309 24910	260 20370	280 21820	340 22480	128 14870	132 11480	145 12450	59 6900	16 1880	7.0 682	8.4 807
							0, BY WATER Y			1000	002	807
										400	4.50	
MEAN	190	318	286	266	317	418	520	1107	1230	439	172	137
MAX	1401	1199	763	521	595	884		4958	4470	2754	1281	938
(WY)	1942	1942	1942	1986	1986	1987	1985	1987	1941	1995	1999	1999
MIN	12.9 1957	59.6 1955	61.7 1964	75.7 1957	102 1957	66.0 1957	32.3 1935	42.9 1963	19.8 1977	1.28 1951	3.21 1956	1.91 1956
(WY)	T957 STATIST			1997 1999 CALE			FOR 2000 WAS		1977		ARS 1931	
		ICS	FOR	234133	NDAR IEAR			IEK IEAK		WAIER IE	ARS 1931	- 2000
ANNUAL ANNUAL				234133 641			84110.0 230			a450		
	' ANNUAL I	MEVI		041			250			1264		1987
										70.9		1964
	WEST ANNUAL MEAN GHEST DAILY MEAN			2230	Jun 20		640	Oct 1		b9110	Jun 2	22 1949
	OWEST DAILY MEAN			80	Apr 16		7.0	Aug 17		c.00		16 1950
	DWEST DAILY MEAN INUAL SEVEN-DAY MINIMU ISTANTANEOUS PEAK FLOV			85	Apr 11		8.5	Aug 12		.00		16 1950
INSTANT	TANEOUS PI	EAK FLOW			=		650	Oct 1		d11600		8 1952
		EAK STAGE					f2.44			8.76	May	8 1952
	RUNOFF (464400			166800			326100		
	CENT EXCE			1320			430			970		
	CENT EXCE			439			222			246		
90 PERC	CENT EXCE	_E DS		212			13			40		

e Estimated.

Estimated. Average discharge for 31 years (water years 1900-30), 846 $\rm ft^3/s$; 612900 acre-ft/yr, includes period of extensive development for irrigation. Maximum daily discharge for period of record, 13100 $\rm ft^3/s$, Jun 8, 1905. No flow at times in 1950-51, 1956. Maximum discharge and stage for period of record, 13200 $\rm ft^3/s$, Jun 8, 1905, gage height, 9.1 ft, from rating curve extended above 8000 $\rm ft^3/s$. Maximum gage height, 4.08 ft, Feb 1, backwater from ice.

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.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

EXTREMES FOR PERIOD OF DAILY 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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE INST. CUBIC FEET PER SECONI (00061)	CIFIC CON- DUCT- ANCE (US/CM	FIE (STA AR 1) UNI	ER LE LD TEMI ND- AT D WA: TS) (DEC	JRE FER G C)		S- VED /L)	HAR NES TOT (MG AS CAC	S AL /L O3)	CALC DIS SOL (MG AS (IUM - VED /L CA)	MAGI SII SOLI (MG AS I	UM, S- VED /L MG)	SODIO DIS- SOLVO (MG AS 1	UM, - ED /L NA) .	POTAS- SIUM, DIS- SOLVED (MG/L AS K) 00935)
OCT 15	1115	420	241	8.	4 11	. 0	8.	5	7	2	21.	7	4.	38	18.	9	3.6
FEB 24 MAY	1415	385	250	8.	3 4	. 1	10.	0	7	9	24.	1	4.	65	19.	1	3.9
24 JUN	1415	195	635	8.	6 22	. 4	7.	9	17	0	50.	8	11.	4	65.	4	9.1
23 JUL	1045	73	396	8.	8 17	. 8	9.	1	11	0	31.	1	6.	96	41.	1	5.7
27 AUG	1130	27	464	8.	9 21	. 5	9.	3	11	0	29.	4	8.	02	57.	3	7.1
24	1100	13	449	8.	8 21	. 0	8.	4	9	2	24.	2	7.	76	55.	3	6.8
DATE OCT 15	DI SC E (M AS	FATE FISH IS STATE IN STATE IS STATE IN STATE IS STATE IN STATE IN STATE IS STATE IN	RIDE, DIS- SOLVED (MG/L AS CL)	DIS-	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	RES AT DE D SO (M	180 G. C IS- LVED G/L)	GI NITI SOI (MC AS (006	RITE IS- LVED G/L N)	MO2+ DI SOI (MO AS	NO3 S- VED //L N)	NITE GEN AMMON DIS SOLV (MG/ AS N (0060	1, NIA S- /ED /L N)	MONI ORGA TOT (MG AS	AM- IA + ANIC TAL S/L N)	ORGAN DIS. (MG/ AS N	M- + IC L)
FEB 24	2	31.6	5.2	.3	30.4		72		010	.2		<.02		. 4		.13	
MAY 24	13		14.9	.8	24.9		31		010	<.0		<.02		. 7		.57	
JUN 23		54.7	9.6	.5	21.2		64		010	<.0		<.02		.6		.30	
JUL 27	6	51.3	L2.8	.7	19.2	3	01	<.(010	<.0	50	<.02	20	. 7	71	.35	
AUG 24	6	55.6 1	12.9	1.0	9.3	2	76	<.(010	<.0	50	<.02	20	.6	51	.37	
DATE	PHC TC (M AS	HOS-PH DRUS DTALS MG/LSP)	PHOS- F HORUS DIS- BOLVED S (MG/L (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	MC SC (U AS	TI- NY, IS- LVED G/L SB)	D: SOI (U) AS	ENIC IS- LVED G/L AS)	DIS SOLV (UG AS	ED.	BERY LIUM DIS- SOLV (UG/ AS E	M, - /ED /L 3E)	SOI (UC AS	IS- LVED E/L CD)	CHRO MIUM DIS- SOLV (UG/ AS C	, ED L R)
OCT 15 FEB	.0)68	.043	.040	1	<	1	E1	.5	23	3	<1		<1.	. 0	<.8	
24 MAY	.1	126	.048	.036	15	<	1	2	. 8	28	3	<1		<1.	. 0	<1.0	
24 JUN	.1	L33	.073	.053	15	<	1	3	. 2	50)	<1		<1.	. 0	<.8	
23 JUL	.1	123	.030	.021	17	<	1	4	. 0	28	3	<1		<1.	. 0	<.8	
27 AUG	.0)94	.014	<.010	7	<	1	4	. 5	40)	<1		<1.	. 0	<.8	
24	.0	061	.011	<.010						-	-		-	-			

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08251500 RIO GRANDE NEAR LOBATOS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	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)
OCT										
15	<1	<1	30	<1	12	1	<1	<2.4	<1	<1
FEB 24	<1	<1	50	<1	30	2	<1	<2.4	<1	2
MAY 24	<1	2	60	<1	76	5	1	<2.4	<1	3
JUN 23	<1	<1	20	<1	23	4	<1	<2.4	<1	3
JUL 27	<1	1	10	<1	19	7	<1	<2.4	<1	2
AUG 24			<10		7					

TRANSMOUNTAIN DIVERSIONS FROM COLORADO RIVER BASIN IN COLORADO THAT ARE NO LONGER PUBLISHED Following is a list of Transmountain Diversions no longer being published in this report. Diversions, in acre-feet, for these sites are available from the State of Colorado, Division of Water Resources.

TO PLATTE RIVER BASIN	TO ARKANSAS RIVER BASIN	TO RIO GRANDE RIVER BASIN				
09010000 Grand River Ditch 09012000 Eureka Ditch 09013000 Alva B. Adams Tunnel 09021500 Berthoud Pass Ditch 09022500 Moffat Water Tunnel 09046000 Boreas Pass Ditch 09047300 Vidler Tunnel 09050590 Harold D. Roberts Tunnel	09042000 Hoosier Pass Tunnel 09061500 Columbine Ditch 09062500 Wurtz Ditch 09063700 Homestake Tunnel 09073000 Twin Lakes Tunnel 09077160 Charles H. Boustead Tunnel 09077500 Busk-Ivanhoe Tunnel 09115000 Larkspur Ditch	09118200 Tarbell Ditch 09121000 Tabor Ditch 09341000 Treasure Pass Ditch 09347000 Don LaFont Ditches 1 & 2 09348000 Williams Creek Squaw Pass Ditch 09351000 Pine River-Weminuche Pass Ditch 09351500 Weminuche Pass				

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or 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 year 2000 maximum Period of record maxim						
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)	
	PL	ATTE RIVER BA	SIN						
Lee Gulch at Littleton, CO (06709740)	Lat $39^\circ35^\circ47^*$, long $105^\circ00^\circ57^*$, in $SW^1/_4SW^1/_4$ 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.	1980-2000	7-16-00	12.51	232	a1983	16.00	444	
Dutch Creek at Platte Canyon Drive, near Littleton, CO (06709910)	Lat 39°36'01", long $105^{\circ}02'28$ ", in $NW^1/_4SE^1/_4$ 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 determine	1985-2000 ined.	7-16-00	11.31 det	not ermined	6-01-91	11.51	1,090	
Weaver Creek near Lakewood, CO (06711305)	Lat 39°38'13", long $105^\circ07'47"$, in $\mathrm{NE}^1/_4\mathrm{NE}^1/_4$ 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 determine	1982-2000 ned.	8-17-00	11.35	89	a1985	13.93	1,010	
Little Dry Creek near Arapahoe Road, CO (06711515)	Lat $39^\circ35'38"$, long $104^\circ54'23"$, in $\mathrm{NE}^1/_4\mathrm{NE}^1/_4$ 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.	1985-2000	8-17-00	8.89	255	a1985	10.52	800	
Willow Creek at Dry Creek Road, near Englewood, CO (06711535)	Lat $39^\circ 34'49"$, long $104^\circ 54'42"$, in $NW^1/_4NE^1/_4$ 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.	1985-2000	8-17-00	12.97	1831	a1985	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.	1982-2000	7-16-00	7.69	512	a1983	15.64	1,060	

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--Continued

			Water	year 2000	maximum	n Perio	od of recor	d maximum
Station name and number	Location and drainage area	Period of record	Date	Gage height (ft)	Dis- charge (ft ³ /s)		Gage height (ft)	Dis- charge (ft ³ /s)
	PLATTE RI	VER BASINC	ontinued					
Harvard Gulch at Colorado Blvd., at Denver, CO (06711570)	Lat $39^\circ40^\circ08^\circ$, long $104^\circ56^\circ32^\circ$, in $\mathrm{SE}^1/_4\mathrm{SE}^1/_4$ 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.	1979-2000	5-17-00	12.86	441	7-20-92	13.50	750
Harvard Gulch below University Blvd. at Denver, CO (06711572)	Lat $39^\circ 40^\circ 10^\circ$, long $104^\circ 57^\circ 33^\circ$, in $\mathrm{SE}^1/_4\mathrm{SE}^1/_4$ 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.	1979-2000	8-17-00	13.48	469	7-12-96	14.55	981
Harvard Gulch at Harvard Park at Denver, CO (06711575)	Lat $39^\circ 40^\circ 21^\circ$, long $104^\circ 58^\circ 35^\circ$, in $NW^1/_4SW^1/_4$ 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.	1979-2000	8-17-00	14.06	350	7-12-96	16.25	1,100
Sanderson Gulch tributary at Lakewood, CO (06711600)	Lat $39^\circ41^\circ19^\circ$, long $105^\circ04^\circ54^\circ$, in $\mathrm{NE}^1/_4\mathrm{NW}^1/_4$ 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 mi ² .	1969-2000	8-17-00	12.40	53	6-06-77	4.91	422
Weir Gulch upstream from 1st Avenue, at Denver, CO (06711618)	Lat $39^{\circ}43^{\circ}03^{\circ}$, long $105^{\circ}02^{\circ}30^{\circ}$, in $NW^{1}/_{4}SE^{1}/_{4}$ sec.7, T.4 S., R.68 W., Denver County, 250 ft upstream from 1st Ave.,in Denver. Drainage area not determined.	1985-2000	7-16-00	11.18	315	8-01-91	11.91	523
Dry Gulch at Denver, CO (06711770)	Lat $39^{\circ}44^{\circ}03^{\circ}$, long $105^{\circ}02^{\circ}20^{\circ}$, in $SW^{1}/_{4}NE^{1}/_{4}$ 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.	1980-2000	7-16-00	13.46	263	a1981	16.00	445
Lakewood Gulch at Denver, CO (06711780)	Lat $39^{\circ}44^{\circ}06^{\circ}$, long $105^{\circ}01^{\circ}54^{\circ}$, in $SM^{1}/_{4}NM^{1}/_{4}$ 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 area not determined.	1980-2000	7-16-00	14.31	962	8-19-98	14.80	1,180
Sloans Lake, south Tributary at Denver, CO (06711820)	Lat $39^\circ44^\circ44^\circ$, long $105^\circ03^\circ28^\circ$, 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 RECORDSWDR CO-90-1: 1985-89. Drainage area not determined.	1985-2000	7-16-00	4.62	52	6-01-91	14.00	451
Westerly Creek at Aurora, CO (06714260)	Lat $39^\circ 44^\circ 43^\circ$, long $104^\circ 52^\circ 48^\circ$, in $\mathrm{NW}^1/_4\mathrm{SW}^1/_4$ 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 RECORDSWDR CO-90-1: 1983-85, 1987-88. Drainage area not determined.	1982-2000	7-16-00	13.34	872	a1983	14.45	1,530

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--Continued

			Wate	r year 2000	maximum	n Period	of recor	d maximum
Station name and number	Location and drainage area	Period of record	Date	Gage height (ft)	Dis- charge (ft ³ /s)		Gage height (ft)	Dis- charge (ft ³ /s)
	PLATTE RI	VER BASINC	ontinued					
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 approximate 9.0 mi².	1974-79 1986-2000	8-17-00	12.41	263	7-20-75	14.41	641
Little Dry Creek at Westminster, CO (06719840)	Lat $39^\circ 49^\circ 34^\circ$, long $105^\circ 02^\circ 25^\circ$, 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.	1982-2000	8-17-00	12.10	646	6-01-91	13.09	1,280
	ARKAN	SAS RIVER BA	SIN					
North Rockrimmon Creek above Delmonico Dr. at Colorado Springs, CO (07104050)	Lat $38^{\circ}54^{\circ}56^{\circ}$, long $104^{\circ}49^{\circ}35^{\circ}$, in $SW^1/_4NE^1/_4$ sec.18, T.13 S., R.66 W., El Paso County, on both banks, 0.2 mi west of Interstate 25, 0.3 mi upstream from mouth, and 2.0 mi downstream from Woodmen Road. Drainage area 1.82 mi 2 .	1998-2000	7-18-00	4.16	277	5-25-99	4.95	414
Big Arroyo near Thatcher, CO (07120620)	Lat $37^\circ 33^\circ 17^\circ$, long $104^\circ 01^\circ 16^\circ$ (revised), 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 REVISED RECORDSWDR CO-97-1:1987(M). Drainage area is 15.5 mi ² .	1991-2000	no peaks	during yea	ar	8-11-97	5.78	1,780
Big Sandy Creek above Amity Canal Diversion, near Kornman, CO (07134000)	Lat $38^{\circ}12^{\circ}52^{\circ}$, long $102^{\circ}28^{\circ}45^{\circ}$, in $NE^1/_4NW^1/_4$ 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 mi ² .	1941-46b 1996-2000	a	11.70	e50	5-04-99	14.00	3,580
Two Butte Creek near Holly, CO (07135000)	Lat 38°01'40", long 102°08'19", in SE ¹ / ₄ SE ¹ / ₄ Sec.21,T.23 S., R.42 W., Prowers County, on left bank 200 ft downstream from road DD, approximately 1 mi upstream from mouth, and 2.9 mi southwest of Holly. Drainage area is 817 mi ² .	1942-46bc 1995-99b 2000-	a	unknown	e3	5-02-44	4.77c	1,800

a-Month or day of occurrence is unknown or not exact. b-Previously operated as a continuous-record gaging station. c-At different datum. e-Estimated.

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 2000.

ARKANSAS RIVER BASIN

Station no	Station name	Location and drainage area	Date	Discharge (ft ³ /s)
07079195	East Fork Arkansas River at Highway 91 near Leadville, CO	Lat $39^{\circ}17^{\circ}09^{\circ}$, long $106^{\circ}16^{\circ}45^{\circ}$, in $\mathrm{NW}^{1}{}_{4}$, $\mathrm{NE}^{1}{}_{4}$, $\mathrm{Sec.}12$, T.9 S., R.80 W. Lake County, Hydrologic Unit 11020001 , on right bank, 20 ft. upstream of State Highway 91, 1.6 mi north of Leadville. Drainage area is $35.0~\mathrm{mi}^{2}$.	10-06-99 11-03-99 12-01-99 1-05-00 2-02-00 3-01-00 4-05-00 5-03-00 5-31-00 6-07-00 7-05-00 8-02-00 9-06-00	20 12 9.2 7.9 8.5 7.4 6.8 38 214 152 46 27

PRECIPITATION DATA AT SITES ON FORT CARSON MILITARY RESERVATION

A network of meteorological stations is operated on the Fort Carson Military Reservation to provide precipitation data for land condition trend analysis, long-term climatic analysis, storm-runoff modeling, and operations management during military training exercises. Other meteorological data are available upon request.

382731104473701 MPRC METEOROLOGICAL STATION AT FORT CARSON, CO

LOCATION.--Lat $38^{\circ}27^{\circ}31^{\circ}$, long $104^{\circ}47^{\circ}37^{\circ}$, in $NE^{1}/_{4}NE^{1}/_{4}$ sec.29, T.18 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, 0.1 mi northeast of Military Route 1, 2.1 mi northeast of Teller Reservoir, and 16 mi southwest of Fountain.

PRECIPITATION RECORDS

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

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,800 ft above sea level, from topographic map.

REMARKS.--Records for 1999 water year are good except for May 5 to July 20, which are poor. Records for 2000 water year are good except for Nov. 1 to Feb. 29, which are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 1.17 inches, July 17, 2000.

EXTREMES FOR 1999 WATER YEAR.--Maximum daily precipitation during period March to September, 0.70 inch, Aug. 1, but may have been greater during periods of missing record, Mar. 22 to May 4 and Sept. 2-30.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999 DAILY SUM VALUES

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 1.17 inches, July 17, but may have been higher during periods of missing record, Oct. 1-10 and July 20 to Sept. 30.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									.00	.00	.70	e.00
2									.00	.00	.08	
3									.00	.00	.01	
4									.00	.00	.29	
5								e.00	.00	.00	.04	
6								.00	.00	.26	.15	
7								.00	.00	.00	.00	
8								.00	.00	.04	.00	
9								.00	.08	.01	.15	
10								.00	.00	.00	.03	
11								.00	.03	.08	.00	
12								.00	.21	.00	.00	
13								.00	.00	.00	.00	
14								.00	.04	.00	.00	
15								.00	.06	.01	.00	
13										.01		
16								.00	.14	.31	.00	
17								.00	.10	.30	.06	
18								.00	.03	.00	.00	
19								.00	.20	.02	.01	
20								.00	.00	.00	.00	
21								.00	.00	.00	.12	
22								.09	.00	.00	.00	
23								.00	.01	.00	.00	
24								.01	.33	.00	.00	
25								.50	.00	.00	.00	
26								.00	.00	.08	.00	
27								.62	.00	.00	.00	
28								.01	.00	.03	.00	
29								.02	.00	.00	.00	
30								.00	.00	.02	.00	
31								.00		.01	.00	
mom1 *									1 00	1 10	1 64	
TOTAL									1.23	1.17	1.64	
MAX									.33	.31	.70	

e Estimated.

arkansas river basin 393

PRECIPITATION DATA AT SITES ON FORT CARSON MILITARY RESERVATION--Continued 382731104473701 MPRC METEOROLOGICAL STATION AT FORT CARSON, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY SUM VALUES

DAILI SUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		.00	.00	e.00	.00	.00	.04	.00	.00	.00		
2		.00	.00	.14	.00	.35	.07	.00	.00	.12		
3		.00	.01	.00	.00	.01	.04	.00	.01	.00		
4		.00	.00	.00	.00	.00	.00	.00	.00	.00		
5		.00	.00	.00	.00	.00	.00	.00	.00	.00		
6		.00	.00	.06	.00	.00	.00	.00	.00	.00		
7		.00	.00	.00	.00	.46	.00	.01	.00	.00		
8		.00	.00	.00	.00	.00	.00	.41	.00	.00		
9		.00	.00	.00	.00	.00	.00	.00	.00	.00		
10		.00	.00	.00	.01	.00	.00	.00	.00	.00		
11	e.00	.00	.00	.00	.00	.00	.04	.00	.01	.00		
12	.00	.00	.00	.00	.02	.04	.00	.00	.00	.00		
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
15	.00	.00	.00	.00	.00	.08	.00	.00	.00	.01		
16	.03	.00	.00	.00	.00	.08	.00	.00	.00	.32		
17	.04	.00	.00	.00	.00	.06	.00	.00	.00	1.17		
18	.07	.00	.00	.00	.03	.00	.00	.01	.00	.00		
19	.02	.00	.00	.00	.00	.00	.00	.00	.04	e.00		
20	.00	.00	.01	.00	.00	.00	.00	.02	.13			
21	.00	.01	.00	.00	.00	.07	.00	.00	.00			
22	.00	.00	.01	.00	.00	.16	.00	.00	.00			
23	.00	.03	.00	.00	.00	.00	.02	.00	.00			
24	.00	.00	.00	.00	.00	.00	.00	.03	.00			
25	.00	.00	.00	.00	.00	.00	.00	.04	.13			
26	.00	.00	e.00	.00	.00	.00	.00	.00	.45			
27	.00	.00	e.00	.06	.00	.00	.00	.00	.02			
28	.00	.00	e.00	.01	.01	.01	.00	.00	.00			
29	.00	.00	e.00	.16	.00	.09	.01	.00	.00			
30	.00	.00	e.00	.00		.05	.16	.00	.00			
31	.00		e.00	.00		.05		.00				
TOTAL		0.04	0.03	0.43	0.07	1.51	0.38	0.52	0.79			
MAX		.03	.01	.16	.03	.46	.16	.41	.45			

e Estimated.

PRECIPITATION DATA AT SITES ON FORT CARSON MILITARY RESERVATION -- Continued

384339104461201 RANGE ONE METEOROLOGICAL STATION AT FORT CARSON, CO

LOCATION.--Lat $38^\circ43^\circ39^\circ$, long $104^\circ46^\circ12^\circ$, in $NE^1/_4SW^1/_4$ sec.22, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on Fort Carson Military Reservation, 0.1 mi southeast of intersection of Military Route 5 and Specker Ave., 1.5 mi southwest of Interstate 25, and 7.9 mi south of Colorado Springs.

PRECIPITATION RECORDS

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

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,760 ft above sea level, from topographic map.

REMARKS.--Records for 1999 water year are poor. Records for 2000 water year are good except for Nov. 1 to Feb. 29, and Mar. 20 to May 25, which are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD. -- Maximum daily precipitation, 1.50 inches, July 31, 1999.

EXTREMES FOR 1999 WATER YEAR.--Maximum daily precipitation for period March to September, 1.50 inches, July 31, but may have been greater during periods of missing record, Mar. 22-29, and Apr. 7 to May 4.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 1.30 inchs, Aug. 28, but may have been greater during period of missing record, Sept. 7-24.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

					DAIL	Y SUM VALU	JES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							.05		.00	.00	.00	.00
2							.00		.00	.05	.00	.00
3							.15		.00	.00	.00	.00
4							.07		.00	.00	.00	.00
5							.02	e.00	.00	.01	.00	.00
_							- 00	0.0	0.0	0.7	0.0	0.0
6							e.00	.00	.00	.07	.00	.00
7								.00	.00	.00	.00	.00
8								.00	.00	.56	.00	.00
9								.00	.11	.00	.00	.00
10								.00	.00	.00	.00	.00
11								.00	.12	.00	.00	.13
12								.00	.23	.00	.00	.02
13								.00	.00	.00	.00	.00
14								.00	.02	.00	.00	.01
15								.00	.10	.00	.00	.01
								.00				.01
16								.05	.08	.53	.00	.00
17								.00	.20	.25	.00	.06
18								.00	.00	.00	.00	.00
19								.00	.14	.00	.00	.10
20								.01	.00	.00	.00	.18
20								.01	.00	.00	.00	.10
21								.13	.00	.00	.00	.00
22								.11	.00	.00	.00	.00
23								.00	.00	.00	.00	.00
24								.13	.15	.00	.00	.00
25								.88	.00	.00	.00	.00
26								.00	.00	.00	.00	.00
27												
								. 47	.00	.06	.00	.01
28								.00	.00	.01	.00	.11
29								.11	.00	.00	.00	.00
30						e.00		.00	.00	.10	.00	.00
31						.00		.05		1.50	.00	
TOTAL									1.15	3.14	0.00	0.63
MAX									.23	1.50	.00	.18
									. 25			0

e Estimated.

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PRECIPITATION DATA AT SITES ON FORT CARSON MILITARY RESERVATION--Continued 384339104461201 RANGE ONE METEOROLOGICAL STATION AT FORT CARSON, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

	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 .00	.00 .00 .00 .00	.10 .01 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .06 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .21 .00 .00	.00 .00 .03 .08	.00 .00 .00 .00
6 7 8 9 10	.00 .13 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .15 .00 .00	.00 .00 .00 .00	.00 .00 .11 .01	.02 .00 .00 .00	.00 .00 .00 .01	.39 .00 .00 .02 .00	e.00
11 12 13 14 15	.00 .00 .00 .01	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .03 .00 .00	.04 .00 .00 .00	.00 .00 .00 .00	.27 .00 .00 .00	.07 .00 .01 .00	.01 .00 .09 .04 .08	
16 17 18 19 20	.04 .03 .11 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .01 .00	.23 .10 .00 .00	.00 .00 .00 .00	.00 .01 .00 .00	.00 .13 .02 .00	.03 .35 .00 .00	.03 .88 .15 .00	
21 22 23 24 25	.00 .00 .00 .00	.06 .01 .12 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .12 .00 .00	.00 .00 .05 .01	.00 .00 .00 .01	.00 .00 .00 .00	.02 .00 .00 .01	.05 .09 .00 .00	 e.00
26 27 28 29 30 31	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.01 .13 .01 .25 .01	.00 .00 .00 .00	.00 .00 .01 .09 .08	.00 .00 .00 .00	.00 .00 .00 .00	.79 .25 .00 .07 .00	.00 .19 .10 .00	.38 .00 1.30 .06 .00	.00 .00 .00 .00
TOTAL MAX	0.32	0.19 .12	0.00	0.52 .25	0.03	0.93 .23	0.19 .06	0.14 .11	1.61 .79	1.08 .35	4.03 1.30	

e Estimated.

PRECIPITATION DATA AT SITES ON FORT CARSON MILITARY RESERVATION -- Continued

384053104492001 ROD AND GUN METEOROLOGICAL STATION AT FORT CARSON, CO

LOCATION.--Lat $38^{\circ}40^{\circ}53^{\circ}$, long $104^{\circ}49^{\circ}20^{\circ}$, in $SE^{1}/_{4}SW^{1}/_{4}$ sec.6, T.16 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on Fort Carson Military Reservation, 0.4 mi north of Military Route 4, 1.2 mi east of State Highway 115, and 9.1 mi south of Colorado Springs.

PRECIPITATION RECORDS

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

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 6,120 ft above sea level, from topographic map.

REMARKS.--Records for 1999 water year good except for May 5 to July 5, which are poor. Records for 2000 water year are good except for Oct. 1, to Mar. 14 and Mar. 21 to May 17, which are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 2.97 inches, Aug. 4, 1999.

EXTREMES FOR 1999 WATER YEAR.--Maximum daily precipitation during period March to September, 2.97 inches, Aug. 4, but may have been higher during periods of missing record, Mar. 22 to May 20 and July 6-19.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 2.00 inches, Aug.17, but may have been higher during periods of missing record, Nov. 20 to Jan. 20, Mar. 15-19, and May 18-24.

		PRECI	PITATION,	TOTAL, 1		ATER YEAR 'SUM VALU		1998 TO SE	EPTEMBER 1	999		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									.02	.01	.18	.07
2									.00	.01	.07	.00
3									.00	.00	.03	.00
4									.00	.00	2.97	.00
5									.00	.00	.73	.00
6									.00		.24	.00
7									.00		.00	.00
8									.00		.00	.00
9									.06		.03	.00
10									.00		.05	.00
11									.08		.00	.04
12									.02		.00	.02
13									.01		.00	.01
14									.02		.00	.03
15									.01		.00	.00
16									.01		.00	.01
17									.00		.00	.01
18									.00		.00	.00
19									.00		.15	.11
20									.00	.14	.06	.20
21								e.07	.00	.00	.03	.00
22								.01	.00	.00	.00	.00
23								.00	.00	.00	.00	.00
24								.01	.25	.00	.00	.01
25								.38	.02	.00	.00	.00
26								.01	.00	.00	.00	.00
27								.06	.00	.31	.00	.00
28								.00	.00	.00	.05	.18
29								.03	.00	.00	.04	.00
30								.00	.00	.13	.03	.00
31								.03		.93	.00	
TOTAL									0.50		4.66	0.69
MAX									.25		2.97	.20

e Estimated.

PRECIPITATION DATA AT SITES ON FORT CARSON MILITARY RESERVATION--Continued 384053104492001 ROD AND GUN METEOROLOGICAL STATION AT FORT CARSON, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY SUM VALUES

	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 .00	 	 	.00 .00 .00 .00	.00 .04 .00 .00	.01 .04 .01 .00	.01 .00 .00 .00	.00 .00 .00 .00	.19 .99 .10 .02	.00 .00 .01 .32	.00 .00 .00 .00
6 7 8 9 10	.00 .18 .00 .00	.00 .00 .00 .00	 	 	.00 .00 .00 .00	.00 .32 .00 .00	.00 .00 .00 .00	.00 .00 .08 .00	.00 .00 .01 .00	.24 .07 .01 .03	.05 .00 .00 .01	.00 .00 .00 .00
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	 	 	.00 .02 .00 .00	.00 .01 .00 .00	.06 .00 .00 .00	.00 .00 .00 .00	.04 .02 .03 .00	.08 .00 .09 .40	.00 .00 .13 .00	.00 .00 .00 .00
16 17 18 19 20	.02 .09 .02 .09	.00 .00 .00 e.00	 	 	.00 .00 .02 .00	 .00	.00 .00 .00 .00	.00	.00 .02 .02 .00	.20 .14 .26 .02	.10 2.00 .11 .00	.00 .00 .00 .00
21 22 23 24 25	.00 .00 .00 .00	 	 	e.00 .00 .00 .00	.00 .00 .00 .00	.02 .15 .01 .00	.00 .00 .02 .00	 .03	.06 .02 .01 .00	.00 .03 .00 .00	.10 .08 .00 .00	.02 .01 .25 .38
26 27 28 29 30 31	.00 .00 .00 .00		 	.02 .10 .01 .28 .05	.00 .00 .03 .00	.00 .00 .00 .12 .05	.00 .00 .00 .00 .01	.00 .00 .00 .00	.02 .25 .06 .37 .00	.02 .01 .11 .00 .00	.23 .03 .55 .04 .00	.00 .00 .00 .00
TOTAL MAX	0.40				0.07		0.16 .06		0.97	3.57 .99	4.55 2.00	0.66

e Estimated.

PRECIPITATION DATA AT SITES ON FORT CARSON MILITARY RESERVATION--Continued

383159104540701 SULLITVAN PARK METEOROLOGICAL STATION AT FORT CARSON. CO

LOCATION.--Lat $38^{\circ}31^{\circ}59^{\circ}$, long $104^{\circ}54^{\circ}07^{\circ}$, in $NW^{1}/_{4}NW^{1}/_{4}$ sec.33, T.17 S., R.67 W., El Paso County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, 0.4 mi east of Military Route 11, 1.0 mi north of Military Route 8, 1.1 mi northeast of Camp Red Devil, and 9 mi northeast of Penrose.

PRECIPITATION RECORDS

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

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 6,010 ft above sea level, from topographic map.

REMARKS.--Records for 1999 water year are good except for Sept. 1-30, which are poor. Records for 2000 water year are good except for Oct. 1 to Feb. 29, and July 19 to Sept. 6, which are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 2.92 inches, Aug. 4, 1999.

EXTREMES FOR 1999 WATER YEAR.--Maximum daily precipitation during period March to September, 2.92 inches, Aug. 4, but may have been higher during period of missing record, Mar. 22 to May 4.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 0.67 inch, May 8, but may have been higher during period of missing record, Jan. 25 to Feb. 13.

		PRECI	PITATION,	TOTAL, I		ATER YEAR 7 SUM VALU		.998 TO SI	EPTEMBER 1	1999		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									.00	.00	.11	.02
2									.00	.00	.01	.00
3									.00	.00	.60	.00
4									.00	.00	2.92	.00
5								e.00	.00	.01	.23	.00
6								.00	.00	.23	.69	.00
7								.00	.00	.00	.00	.00
8								.00	.00	.02	.00	.00
9								.00	.26	.00	.02	.00
10								.00	.00	.00	.08	.00
11								.00	.00	.09	.00	.33
12								.00	.00	.01	.00	.01
13								.00	.00	.00	.00	.00
14								.00	.03	.02	.01	.11
15								.00	.17	.00	.00	.13
16								.00	.20	.16	.00	.00
17								.00	.02	.64	.00	.06
18								.00	.00	.00	.03	.00
19								.00	.00	.02	.04	.10
20								.00	.00	.12	.01	.08
21								.00	.02	.00	.47	.01
22								.00	.00	.00	.00	.00
23								.00	.00	.00	.00	.00
24								.00	.18	.02	.00	.00
25								.88	.00	.00	.00	.00
26								.00	.00	.03	.00	.00
27								.42	.00	.00	.00	.00
28								.01	.00	.03	.00	.03
29								.14	.00	.00	.00	.00
30								.00	.00	.04	.00	.00
31								.00		.58	.00	
TOTAL									0.88	2.02	5.22	0.88
MAX									.26	.64	2.92	.33

e Estimated.

arkansas river basin 399

PRECIPITATION DATA AT SITES ON FORT CARSON MILITARY RESERVATION--Continued 383159104540701 SULLIVAN PARK METEOROLOGICAL STATION AT FORT CARSON, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

	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 .00	.00 .00 .00 .00	.00 .00 .00 .00	 	.00 .24 .09 .00	.09 .04 .06 .00	.00 .00 .00 .00	.00 .00 .00 .01	.00 .00 .00 .00	.00 .00 .00 .13	.00 .00 .00 .00		
6 7 8 9 10	.00 .02 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.11 .00 .00 .00	 	.00 .17 .00 .00	.00 .00 .00 .00	.00 .00 .67 .00	.00 .00 .00 .00	.00 .01 .00 .00	.02 .00 .00 .00	.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	 e.00 .00	.00 .00 .01 .00	.04 .01 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.16 .00 .01 .02	.00 .00 .00 .00		
16 17 18 19 20	.00 .06 .01 .03	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .04 .00	.13 .14 .00 .00	.00 .00 .00 .00	.00 .00 .09 .00	.00 .02 .00 .00	.18 .31 .00 .00	.00 .01 .00 .00	.00 .00 .00 .00		
21 22 23 24 25	.00 .00 .00 .00	.02 .05 .09 .00	.01 .00 .00 .00	.00 .00 .00 e.00	.00 .00 .00 .00	.18 .21 .01 .00	.00 .00 .05 .01	.00 .00 .00 .02 .02	.00 .00 .00 .01	.00 .03 .00 .00	.00 .00 .00 .00	.02 .02 .27 .24		
26 27 28 29 30 31	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	 	.00 .00 .02 .00	.00 .00 .00 .10 .01	.00 .00 .00 .00	.00 .00 .00 .00	.57 .05 .00 .02 .00	.00 .02 .05 .00 .44	.00 .00 .00 .00	.00 .00 .00 .00		
TOTAL MAX	0.12	0.16 .09	0.01			1.40 .24	0.45 .15	0.82 .67	1.17 .57	1.04	0.36 .16	0.55 .27		

e Estimated.

PRECIPITATION DATA AT SITES ON FORT CARSON MILITARY RESERVATION -- Continued

383109104431301 YOUNG HOLLOW METEOROLOGICAL STATION AT FORT CARSON, CO.

LOCATION.--Lat $38^{\circ}31^{\circ}09^{\circ}$, long $104^{\circ}43^{\circ}13^{\circ}$, in $NE^{1}/_{4}NE^{1}/_{4}$ sec.1, T.18 S., R.66 W., Pueblo County, Hydrologic Unit 11020003, on Fort Carson Military Reservation, 1.1 mi east of Military Route 1, 4.8 mi west of Interstate 25, and 5.5 mi south of Fountain.

PRECIPITATION RECORDS

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

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,350 ft above sea level, from topographic map.

REMARKS.--Records for 1999 water year are poor. Records for 2000 water year are good except for Oct. 1-31, which are fair, and Nov. 1 to Feb. 29, Mar. 20 to May 25, which are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 0.93 inch, July 11, 2000.

EXTREMES FOR 1999 WATER YEAR.--Maximum daily precipitation during period March to September, 0.36 inch, Aug. 1, but may have been higher during period of missing record, Mar. 23 to May 4.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 0.93 inch, July 11, but may have been higher during periods of missing record, Jan. 25 to Feb. 28 and Apr. 28 to May 24.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

	PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999 DAILY SUM VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1									.00	.00	.36	.00		
2									.00	.00	.00	.04		
3									.00	.00	.00	.00		
4									.00	.00	.15	.00		
5								e.00	.00	.00	.03	.00		
6								.00	.00	.00	.05	.00		
7								.00	.00	.00	.00	.00		
8								.00	.00	.00	.02	.00		
9								.00	.00	.00	.01	.00		
10								.00	.00	.00	.02	.00		
11								.00	.00	.00	.00	.25		
12								.00	.15	.00	.00	.00		
13								.00	.01	.00	.00	.00		
14								.00	.00	.00	.00	.04		
15								.00	.00	.00	.00	.02		
16								.00	.00	.00	.00	.01		
17								.00	.00	.00	.01	.02		
18								.00	.00	.00	.00	.00		
19								.00	.00	.00	.01	.08		
20								.00	.00	.00	.00	.06		
21								.00	.00	.00	.00	.00		
22								.00	.00	.00	.00	.00		
23								.00	.00	.00	.00	.00		
24								.00	.00	.00	.00	.07		
25								.00	.00	.04	.00	.00		
26								.00	.00	.00	.00	.00		
27								.00	.00	.00	.00	.01		
28								.00	.00	.07	.00	.05		
29								.00	.00	.00	.00	.00		
30								.00	.00	.05	.00	.00		
31								.00		.17	.02			
TOTAL									0.16	0.33	0.68	0.65		
MAX									.15	.17	.36	.25		

e Estimated.

arkansas river basin 401

PRECIPITATION DATA AT SITES ON FORT CARSON MILITARY RESERVATION--Continued 383109104431301 YOUNG HOLLOW METEOROLOGICAL STATION AT FORT CARSON, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

	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 .00	.00 .00 .09 .00	.07 .00 .00 .00	 	.00 .15 .00 .00	.02 .26 .00 .01	 	.00 .00 .03 .00	.00 .01 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00		
6 7 8 9 10	.02 .52 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.04 .00 .00 .00	 	.00 .56 .00 .00	.00 .00 .00 .00	 	.00 .00 .00 .00	.00 .00 .00 .00	.32 .00 .00 .00	.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	.06 .00 .00 .00	 	.00 .00 .00 .00	.93 .00 .00 .00	.01 .00 .06 .00	.00 .00 .00 .00		
16 17 18 19 20	.03 .12 .10 .01	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	 	.27 .05 .01 .00	.00 .00 .00 .00	 	.01 .01 .00 .00	.18 .16 .00 .00	.00 .66 .02 .00	.00 .00 .00 .00		
21 22 23 24 25	.00 .00 .00 .00	.09 .03 .00 .00	.00 .00 .00 .00	.00 .00 .00 e.00	 	.03 .13 .00 .00	.00 .00 .07 .01	 e.00	.00 .00 .00 .00	.00 .00 .00 .00	.04 .01 .00 .00	.03 .01 .35 .42		
26 27 28 29 30 31	.00 .00 .00 .01 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	 	 e.00 	.00 .00 .01 .06 .03	.00 e.00 	.00 .00 .00 .00	.50 .62 .00 .01 .00	.00 .00 .02 .00 .00	.10 .00 .44 .01 .00	.00 .00 .00 .00		
TOTAL MAX	0.81 .52	0.13 .09	0.10 .09			1.45 .56			1.41 .62	1.33 .93	1.73 .66	0.81		

e Estimated.

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE

A network of meteorological stations is operated on the Pinon Canyon Maneuver Site to provide precipitation data for land condition trend analysis, long-term climatic analysis, storm-runoff modeling, and operations management during military training exercises. Other meteorological data are available upon request.

373232103555201 BEAR SPRINGS METEOROLOGICAL STATION NEAR HOUGHTON, CO

LOCATION (REVISED).--Lat $37^{\circ}32'32''$, long $103^{\circ}55'55''$, in $SW^{1}/_{4}SW^{1}/_{4}$ 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 1, 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 October 1998, March 1999 to current year. Site was part of a hydrologic study 1985-92, data published elsewhere.

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,200 ft above sea level, from topographic map.

REMARKS.--Records for 1999 water year are good. Records for 2000 water year are good except for Nov. 1 to Feb. 29 and Apr. 26 to Aug. 15, which are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 2.82 inches, May 3, 1987.

EXTREMES FOR 1999 WATER YEAR.--Maximum daily precipitation for period Oct. 1-6 and March to September, 0.89 inch, Aug. 4, but may have been higher during period of instrument failure, Apr. 21 to July 7.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

EXTREMES FOR CURRENT YEAR .-- Maximum daily precipitation, 0.86 inch, June 26.

		PRECI	PITATION,	TOTAL, I		ATER YEAR Y SUM VALI	JES	.998 TO SE	PIEMBER .	1999		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00						e.00				.43	.00
2	.00						e.00				.01	.01
3	.00						.00				.09	.00
4	.00						.00				.89	.00
5	.00						.00				.00	.00
6	e.00						.00				.00	.00
7							.00				.00	.00
8							.00			e.73	.01	.00
9							.00			.02	.01	.00
10							.00			.00	.00	.00
11							.00			.00	.00	.05
12							.00			.00	.00	.00
13							.10			.00	.00	.00
14							.00			.00	.00	.01
15						e.00	.00			.00	.02	.77
16						.00	.00			.15	.00	.00
17						.00	.00			.11	.00	.01
18						.01	.00			.00	.13	.00
19						.17	.00			.07	.00	.00
20						.00	.00			.02	.00	.00
21						.00				.00	.10	.00
22						.00				.00	.00	.00
23						.01				.00	.00	.00
24						.08				.00	.00	.00
25						.00				.00	.00	.00
26						e.02				.00	.00	.00
27						e.00				.00	.05	.00
28						e.00				.00	.00	.01
29						e.00				.00	.00	.00
30						e.00				.07	.00	.00
31						e.00				.31	.00	
TOTAL											1.74	0.86
MAX											.89	.77

e Estimated.

arkansas river basin 403

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued

373232103555201 BEAR SPRINGS METEOROLOGICAL STATION NEAR HOUGHTON, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY SUM VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP .00 .00 .00 .00 .00 .13 .06 .00 .00 .00 .00 .00 2 .00 .00 .00 .00 .00 .05 .02 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .03 .13 .00 .00 .00 .00 .00 0.0 .00 .02 0.0 00 .00 00 0.0 0.0 .00 .02 01 5 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .02 6 7 .00 .00 .00 .00 .00 .00 .00 .00 .00 .02 .00 .14 .51 .00 .00 .00 .00 .00 .00 .00 .01 .00 .00 .00 . 00 . 00 .00 .00 8 .00 .00 . 48 .00 .00 .00 10 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 11 .00 .00 .03 .12 .00 .02 .00 .00 .00 .00 .00 .00 12 .00 .00 .00 .00 .00 .00 .00 .00 .00 .04 .00 13 14 .00 .00 .00 0.0 0.0 0.0 .00 0.0 .00 .00 .00 0.0 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 15 .00 .00 .00 .00 .00 .20 .00 .00 .00 .00 .01 .00 .00 16 17 .00 .00 .00 .04 .00 .00 .00 .04 .00 .05 0.0 .08 .00 .00 .00 .04 .00 .00 .00 .07 .00 .00 .43 18 .11 .00 .00 .00 0.0 .06 .00 .00 .00 .00 .01 0.0 19 .24 .00 .00 .00 .00 .00 .00 .01 .00 .00 .00 .01 20 .01 .00 .00 .00 .00 .00 .00 .00 .00 .02 .10 .02 21 .00 .00 .00 .00 .00 .03 .00 .00 .00 .02 .21 .03 22 23 24 .00 .00 .05 .00 .00 .00 .16 .00 .00 .00 .01 .00 .00 .00 .00 .00 .32 .01 .00 .00 .00 .00 .00 .00 .05 .00 .00 .00 .02 25 .00 .00 .00 .00 .00 .00 .00 .15 .00 .00 .00 .00 26 27 .00 .00 .00 .00 .00 .00 .00 .00 .86 .00 .29 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .06 .17 .00 28 29 .00 .00 .09 .00 .02 .00 .00 .01 .02 .00 .00 .00 .43 30 .00 .00 .00 .00 ---.30 . 25 .00 .11 .00 .00 .00 31 .00 .00 .00 .12 .00 ---.00 .00

1.85

.51

0.79

.25

0.75

.48

1.21

.86

0.23

1.13

.43

0.42

.32

WTR YR 2000 TOTAL 8.06 MAX .86

0.03

.03

0.02

.02

0.78

TOTAL

MAX

0.16

.09

0.69

.43

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued

372319104073301 BROWN SHEEP CAMP METEOROLOGICAL STATION NEAR TYRONE, CO

LOCATION.--Lat $37^{\circ}23^{\circ}19^{\circ}$, long $104^{\circ}07^{\circ}33^{\circ}$, in $SW^{1}/_{4}NE^{1}/_{4}$ sec.33, T.30 S., R.60 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site, approximately 50 ft west of Military Supply Road, 0.9 mi southwest of Brown Sheep Camp, 6.4 mi southeast of Tyrone, and 23 mi northeast of Trinidad.

PRECIPITATION RECORDS

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

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,390 ft above sea level, from topographic map.

REMARKS.--Records for 1999 water year are good. Records for 2000 water year are good except for Nov. 1 to Feb. 29, which are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 1.44 inches, July 17, 1999.

EXTREMES FOR 1999 WATER YEAR.--Maximum daily precipitation for period June to September, 1.44 inches, July 17, but may have been higher during instrument failure, Mar. 17 to June 8.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 1.42 inch, July 16, but may have been higher during instrument failure, Jan. 28 to Mar. 9.

		PRECI	IPITATION,	TOTAL, I		ATER YEAR SUM VALU		998 TO SI	EPTEMBER 1	1999		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										.00	.14	.00
2										.00	.02	.00
3										.00	.13	.00
4										.09	.49	.00
5										.00	.00	.00
6										.00	.09	.00
7										.00	.00	.00
8										1.32	.02	.00
9									e.00	.00	.00	.00
10									.00	.00	.00	.00
11									.48	.02	.00	.00
12									.07	.00	.00	.02
13									.00	.00	.00	.00
14									.13	.00	.00	.03
15									.01	.00	.00	.65
16									.01	.03	.00	.00
17									.01	1.44	.00	.01
18									.01	.04	.01	.00
19									.00	.00	.00	.00
20									.00	.00	.00	.00
21									.00	.00	.00	.00
22									.00	.00	.01	.00
23									.00	.25	.00	.00
24									.00	.39	.00	.00
25									.00	.01	.00	.00
26									.00	.00	.00	.00
27									.00	.00	.00	.01
28									.00	.00	.01	.02
29									.00	.00	.03	.00
30									.03	.78	.00	.00
31										1.05	.00	
TOTAL										5.42	0.95	0.74
MAX										1.44	.49	.65

e Estimated.

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued

372319104073301 BROWN SHEEP CAMP METEOROLOGICAL STATION NEAR TYRONE, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

	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 .00	.03 .00 .00 .01	.00 .00 .00 .00	 	 	.10 .00 .05 .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 .07 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	 	 e.00	.00 .00 .00 .00	.00 .00 .54 .00	.00 .00 .00 .00	.00 .00 .00 .00	.05 .00 .00 .00	.00 .00 .01 .00		
11 12 13 14 15	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	 	.03 .00 .00 .00	.19 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.01 .00 .00 .00	.00 .01 .00 .00	.00 .00 .00 .00		
16 17 18 19 20	.02 .08 .10 .28	.00 .00 .02 .00	.00 .01 .00 .00	.00 .00 .00 .00	 	.12 .01 .07 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	1.42 .18 .00 .00	.00 .02 .03 .00	.00 .00 .00 .00		
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .02 .00	.00 .00 .00 .00	.00 .00 .00 .00	 	.04 .38 .00 .00	.00 .00 .00 .00	.00 .00 .00 .02 .00	.00 .00 .00 .00	.01 .08 .00 .00	.64 .00 .00 .00	.02 .03 .20 .01		
26 27 28 29 30 31	.00 .00 .00 .07 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 e.09 	 	.00 .00 .06 .06 .06	.00 .00 .00 .01 .10	.00 .00 .00 .00	.17 .38 .00 .14 .00	.05 .00 .02 .00 .00	.18 .00 .00 .00 .00	.00 .00 .00 .00		
TOTAL MAX	0.63	0.04	0.05				0.45 .19	0.74 .54	0.69 .38	1.79 1.42	0.93 .64	0.27		

e Estimated.

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued

373004104032001 BURSON WELL METEOROLOGICAL STATION NEAR THATCHER, CO

LOCATION.--Lat $37^{\circ}30^{\circ}04^{\circ}$, long $104^{\circ}03^{\circ}20^{\circ}$, in $SW^{1}/_{4}SW^{1}/_{4}$ sec.19, T.29 S., R.59 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site 0.3 mi south of Military Supply Road 1, 4.2 mi southeast of Thatcher, and 33 mi northeast of Trinidad.

PRECIPITATION RECORDS

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

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,630 ft above sea level, from topographic map.

REMARKS.--Records for 1999 water year are good except for June 30 to Sept. 22, which are poor. Records for 2000 water year are good except for Oct. 1 to Feb. 29, and June 20 to Aug. 15, which are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 1.29 inches, July 20, 1999.

EXTREMES FOR 1999 WATER YEAR.--Maximum daily precipitation for period March to September, 1.29 inches, July 20, but may have been higher during periods of missing record, Mar. 25 to May 10.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 0.64 inches, Aug. 21, but may have been higher during periods of missing record Nov. 25 to Dec. 22, Apr. 26 to June 7, June 21 to July 4, and Aug. 27 to Sept. 30.

_							- '	_	-			
		PRECI	IPITATION,	TOTAL,		WATER YEAR LY SUM VAL		1998 TO	SEPTEMBER	1999		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									.00	.00	.53	.00
2									.00	.08	.03	.01
3									.00	.00	.07	.00
4									.00	.03	.69	.00
5									.00	.00	.00	.00
6									.00	.00	.02	.00
7									.00	.00	.01	.00
8									.00	.21	.00	.00
9									.05	.00	.12	.00
10									.00	.00	.00	.00
11								e.12	.01	.00	.00	.06
12								.00	. 25	.00	.00	.01
13								.00	.00	.00	.00	.00
14								.00	.21	.01	.00	.01
15								.00	.01	.01	.00	.02
16								.00	.00	.13	.00	.01
17								.00	.02	.29	.00	.00
18								.00	.00	.00	.00	.01
19								.00	.01	.00	.00	.00
20								.00	.00	1.29	.00	.00
21								.06	.00	.00	.00	.00
22								.00	.00	.00	.00	.00
23								.00	.00	.06	.00	.00
24								.00	.00	.03	.00	.00
25								.00	.05	.00	.00	.00
26								.03	.00	.02	.00	.00
27								.00	.00	.00	.00	.01
28								.00	.00	.00	.00	.02
29								.00	.00	.00	.02	.00
30								.00	.00	.57	.00	.00
31								.00		1.09	.00	
TOTAL									0.61	3.82	1.49	0.16
MAX									.25	1.29	.69	.06
									.23	1.27		

e Estimated.

arkansas river basin 407

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued

373004104032001 BURSON WELL METEOROLOGICAL STATION NEAR THATCHER, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY SUM VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP .00 .00 .00 .00 .07 .07 .00 ---------------2 .00 .00 .00 .00 .07 .00 .00 3 .00 .00 .00 .00 .03 .04 .00 0.0 .00 ___ 0.0 00 .00 .00 ___ ___ .06 ___ 5 .00 e.00 .00 .00 .00 .00 .00 .00 .00 .00 .00 6 7 .00 .00 .00 .03 .09 ---.49 .00 ---.00 .00 .00 .01 .00 e.00 8 .00 .00 .00 .00 .00 ---.00 .00 .00 10 .00 .00 ---.00 .00 .00 .00 ---.00 .00 .00 ---11 .00 .00 .00 .00 .03 .15 .00 .37 .00 ---___ ---12 .00 .00 ---.00 .00 .00 ---.00 .00 13 14 .00 .00 .00 0.0 .00 .00 .00 .00 .00 ___ .00 .00 .00 .00 .00 .00 .00 .00 .00 15 .00 .00 ---.00 .00 .20 .00 ---.00 .00 .07 ---16 17 .02 .00 .10 .00 ___ .00 .34 .00 ___ .00 .00 .08 .00 .00 .00 .00 .00 .03 18 .05 .00 ---.00 .00 .07 .00 ---.00 .02 .02 ---19 .00 .05 .00 .00 .00 .00 .00 .00 .00 20 .00 .00 ---.00 .00 .00 .00 --e.00 .00 .04 ---21 22 23 24 .00 .00 .00 .03 .00 .00 .16 .64 ------.01 ---.00 .07 .00 .00 .26 .00 .00 ___ .00 .03 e.00 .00 .01 .00 e.00 .00 .00 .00 .00 .00 25 .00 .00 .00 .00 .00 e.00 ___ ___ .00 .00 ___ 26 27 ---.00 .00 .00 .00 .00 .51 e.13 .00 ---.00 .00 .00 ------.00 ---.06 28 29 .00 ---.00 .07 .01 .05 ---------.15 ---.14 ---30 .00 .00 .00 ---.00 ---------___ 31 .00 .00 .00 .00 TOTAL 0.32 0.19 0.29 1.64

.49

.07

.17

MAX

.09

e Estimated.

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued

372959104092201 CANTONMENT METEOROLOGICAL STATION NEAR CEMETARY AT SIMPSON, CO

LOCATION.--Lat $37^{\circ}29^{\circ}59^{\circ}$, long $104^{\circ}09^{\circ}35^{\circ}$, in $SW^{1}/_{4}SE^{1}/_{4}$ 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, 250 ft west of Simpson Cemetary, 0.4 mi east of Highway 350, and 32 mi northeast of Trinidad.

PRECIPITATION RECORDS

PERIOD OF RECORD.--July 1993 to October 1998, March 1999 to current year.

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,630 ft above sea level, from topographic map. Prior to Mar. 25, 1999 at site 780 ft east.

REMARKS.--Records for 1999 water year are poor. Records for 2000 water year are good except for Nov. 1 to Feb. 29 and Apr. 25 to June 20, which are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 1.44 inches, Apr. 26, 1998.

EXTREMES FOR 1999 WATER YEAR.--Maximum daily precipitation for period March to September, 0.41 inch, July 8, but may have been higher during instrument failure, Mar. 25 to May 11 and July 16 to Sept. 23.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 0.90 inch, July 16, but may have been higher during missing period Nov. 25 to Jan. 23.

					DAILY	SUM VALU	JES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00								.00	.00		
2	.00								.00	.02		
3	.00								.00	.20		
4	.00								.00	.08		
5	.00								.00	.00		
6	.00								.00	.00		
7	e.00								.00	.00		
8									.00	.41		
9									.05	.00		
10									.01	.00		
11								e.08	.03	.00		
12								.00	.16	.00		
13								.00	.00	.00		
14								.00	.31	.00		
15								.00	.04	.01		
16								.00	.01			
17								.00	.01			
18								.00	.01			
19								.00	.00			
20								.00	.00			
21								.07	.00			
22								.00	.00			
23								.00	.00			
24								.00	.00			.00
25								.00	.14			.00
26								.10	.00			.00
27								.01	.00			.01
28								.00	.00			.00
29								.00	.00			.00
30								.00	.00			.00
31								.00				
TOTAL									0.77			
MAX									.31			

e Estimated.

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued

372959104092201 CANTONMENT METEOROLOGICAL STATION NEAR CEMETARY AT SIMPSON, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY SUM VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP .00 .00 .00 .09 .06 .00 .02 .01 .00 .00 ---.00 2 .00 .00 .00 .04 .00 .00 .00 .00 .00 .00 3 .00 .00 .00 .02 .00 .00 .00 .00 0.0 .00 ___ 00 .00 0.0 0.0 0.0 .00 0.0 5 .00 .00 .01 .00 .00 .00 .00 .00 .00 .00 .00 6 7 .00 .00 .00 .00 .00 .00 .00 .00 .00 .04 .00 .00 .00 .00 .58 .00 .00 .00 .00 .00 ------.00 . 00 . 44 . 00 .00 8 .14 .00 .00 .00 .00 10 .00 .00 ___ ---.01 .00 .00 .00 .00 .14 .00 .00 11 .00 .00 .00 .04 .00 .00 .00 .16 .00 .00 ___ ---12 .00 .00 ---.00 .00 .00 .00 .00 .10 .00 13 14 .00 .00 ___ 0.0 0.0 .00 0.0 .00 .00 .00 0.0 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 15 .00 .00 ------.00 .17 .00 .00 .00 .10 .00 .00 .00 16 17 .04 .00 .09 .00 .00 .00 .00 .90 .00 .00 .00 .00 .00 .00 .02 .02 .00 .00 18 .06 .00 ___ ---.00 .13 .00 .00 .00 .08 .02 .00 19 .00 .01 .00 .00 .01 .31 .00 .00 .00 .00 20 .00 .00 ------.00 .00 .00 .02 .00 .00 .00 .02 21 22 23 24 .00 .00 .00 .00 .00 .06 .00 .00 .06 .02 ------.00 .06 .00 .00 .00 .00 .02 .00 .30 .00

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1.93

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0.62

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0.52

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1.27

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0.85

.53

.02

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0.60

.37

.00

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.46

.00

.19

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.00

1.90

25

26 27

28 29

30

31

MAX

TOTAL

.06

e.00

.00

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.00

.13

.00

.00

0.70

.31

e.00

.00

.00

.09

.07

.00

.00

.00

.00

.00

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.00

.16

0.25

.16

e Estimated.

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued

372532104093001 CANTONMENT WINDMILL METEOROLOGICAL STATION NEAR TYRONE, CO

LOCATION.--Lat $37^{\circ}25^{\circ}32^{\circ}$, long $104^{\circ}09^{\circ}32^{\circ}$, in $SW^{1}/_{4}SE^{1}/_{4}$ sec.18, T.30 S., R.60 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site 0.2 mi south of military supply road 2, 3.5 mi east of Tyrone, and 25 mi northeast of Trinidad.

PRECIPITATION RECORDS

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

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,460 ft above sea level, from topographic map.

REMARKS.--Records for 1999 water year are good except for Mar. 17 to June 30 and Sept. 22-30, which are poor. Records for 2000 water year are good except for Oct. 1 to Feb. 29, which are poor. Daily data that are not published are either missing or of unacceptable quality.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 1.35 inches, July 17, 1999.

EXTREMES FOR 1999 WATER YEAR.--Maximum daily precipitation for period March to September, 1.35 inches, July 17.

EXTREMES FOR CURRENT YEAR. -- Maximum daily precipitation, 0.90 inch, July 16.

DAILY SUM VALUES DAY OCT NOV DEC TAN FEB MAR APR MAY JUN TITI. ATTG SEP 0.0 0.2 0.0 0.0 30 0.0 .05 .00 .00 .09 .02 .00 ---------------.00 .00 .00 .00 . 20 .00 .00 .00 .00 .06 1.22 .00 5 ---.00 .03 .00 .00 .12 .00 .00 6 7 .00 .00 .00 .00 .12 .08 .00 .00 .00 .09 .00 8 ___ ___ ___ ___ ___ .00 .00 .00 .59 .00 .00 ---------___ .00 .01 .00 .20 .05 .00 10 .00 .00 .00 .00 .00 .00 11 12 ---------------.00 .04 .10 .03 ___ .00 .01 13 .69 .00 .00 .00 .00 .00 ---___ ___ ---------14 .00 .00 .03 .00 .00 .06 15 .01 .63 .00 .01 .00 .01 16 17 ___ -----------e.00 .00 .00 .15 1.35 .00 .00 ------.00 18 .00 .01 .01 .00 .00 ___ ___ ___ 19 .03 .00 .00 .00 .00 20 .00 .00 .00 .00 .00 .00 .01 21 .00 .00 .00 .00 .01 .00 22 ---------------.00 .39 .07 .00 .00 .01 .00 23 .00 .00 .00 .00 .02 .00 .00 24 25 .00 .23 .00 .00 .01 .00 .00 ------26 .00 .00 .02 .00 .00 .00 .00 27 28 .00 .01 .00 .00 .00 .00 ___ ___ ___ ___ ___ .01 ---.01 29 .00 .15 .00 .00 .00 .01 .00 30 ___ ___ ---------.00 .07 .00 .00 .36 .02 .00 31 .00 .00 .43 .00 TOTAL 2.09 0.24 0.59 3.20 2.21 0.74

.69

.07

.20

1.35

1.22

.63

MAX

e Estimated.

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued

372532104093001 CANTONMENT WINDMILL METEOROLOGICAL STATION NEAR TYRONE, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY SUM VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP .00 .00 .00 .00 .00 .11 .04 .00 .00 .00 .00 .00 .00 2 .00 .00 .00 .00 .00 .01 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 0.0 .00 .00 0.0 00 .00 00 0.0 0.0 .00 .01 00 5 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 6 7 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .04 .44 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 . 00 . 00 .00 .00 8 .00 .00 . 44 .06 .00 .00 .00 .00 10 .00 .00 .00 .00 .02 .00 .00 .00 .00 .29 .00 .00 11 .00 .00 .02 .00 .00 .00 .00 .00 .00 .18 .00 .00 12 .00 .00 .00 .00 .00 .00 .00 .00 .00 .01 .00 13 14 .00 .00 .00 0.0 0.0 0.0 0.0 0.0 0.0 .00 .00 0.0 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 15 .00 .00 .00 .00 .00 .16 .00 .00 .00 .00 .00 .00 .00 16 17 .01 .00 .08 .00 .01 .00 0.0 .00 0.0 90 0.0 .03 .00 .01 .00 .00 .00 .00 .00 .09 .06 .00 .00 18 .01 .00 .00 0.0 0.0 .04 .00 .00 .00 .02 .03 .00 19 .05 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 20 .00 .00 .00 .00 .00 .00 .00 .22 .00 .01 .00 .00 .75 21 .00 .00 .00 .00 .00 .02 .00 .00 .00 .00 .01 22 23 24 .00 .00 .05 .32 .00 .00 .00 .03 .00 .00 .00 .14 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .03 .00 .00 .00 .01 25 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 26 27 .00 .00 .00 .00 .00 .00 .00 .00 .30 .05 .08 .00 .00 .00 .00 .00 .00 .00 .00 .00 .02 .21 .00 .00 28 29 .00 .00 .03 .04 .00 .00 .00 .05 .00 .00 .00 .08 30 .00 .00 .00 ---.08 .11 .00 .00 .00 .00 .00 31 .00 .00 .00 .00 .06 ---.00 .00

1.40

.44

0.76

.44

0.56

.30

0.39

.18

1.55

.90

0.94

0.29

.18

0.16

.08

0.13

.08

WTR YR 2000 TOTAL 6.35 MAX .90

0.00

.00

0.01

.01

0.16

.05

TOTAL

MAX

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued

372721103595601 CIG PIPELINE SOUTH METEOROLOGICAL STATION NEAR SIMPSON, CO (Formerly published as Taylor Arroyo Rain Gage at Pipeline near Simpson, CO)

LOCATION.--Lat $37^{\circ}27^{\circ}21^{\circ}$, long $103^{\circ}59^{\circ}56^{\circ}$, in $SE^{1}/_{4}SW^{1}/_{4}$ sec.3, T.30 S., R.59 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver 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 October 1998, March 1999 to current year.

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,220 ft above sea level, from topographic map.

REMARKS.--Records for 1999 water year are poor. Records for 2000 water year are good except for Nov. 1 to Feb. 29, which are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 4.59 inches, July 27, 1998.

EXTREMES FOR 1999 WATER YEAR.--Maximum daily precipitation for period October 1-7 and March to September, 0.50 inch, July 16, but may have been higher during instrument failure, Mar. 17 to May 10 and July 20 to Sept. 22.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 0.77 inch, Aug. 21, but may have been higher during missing period, Jan. 28 to Mar. 7.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

	DAILY SUM VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	.26								.00	.00				
2	.01								.00	.00				
3	.00								.00	.02				
4	.01								.00	.25				
5	.00								.00	.00				
_														
6	.00								.00	.00				
7	e.00								.00	.00				
8									.00	.21				
9									.00	.00				
10									.01	.00				
11								e.08	.00	.00				
12								.00	.00	.00				
13								.00	.00	.00				
14								.00	.00	.00				
15								.00	.00	.00				
16								.00	.00	.50				
17								.00	.00	.10				
18								.00	.00	.06				
19								.03	.01	.00				
20								.00	.00					
21								.00	.00					
22								.00	.00					
23								.00	.00			e.00		
24								.00	.00			.00		
25								.00	.00			.00		
26								.00	.00			.00		
27								.01	.00			.00		
28								.00	.00			.01		
29								.00	.00			.00		
30								.00	.00			.00		
31								.00						
TOTAL									0.02					
MAX									.01					

e Estimated.

arkansas river basin 413

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued

372721103595601 CIG PIPELINE SOUTH METEOROLOGICAL STATION NEAR SIMPSON, CO--Continued (Formerly published as Taylor Arroyo Rain Gage at Pipeline near Simpson, CO)

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY SUM VALUES

	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 .00	.00 .00 .00 .00	.00 .00 .00 .00	 	 	.04 .03 .03 .00	.00 .00 .00 .00	.00 .00 .00 .00	.03 .00 .00 .00	.00 .00 .00 .02	.00 .00 .00 .03		
6 7 8 9 10	.00 .04 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	 	e.00 .00	.00 .00 .00 .00	.00 .00 .44 .00	.00 .00 .00 .00	.01 .00 .00 .00	.00 .00 .00 .00	.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	.15 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.19 .01 .00 .00	.11 .02 .00 .00	.00 .00 .00 .00		
16 17 18 19 20	.03 .07 .06 .24	.00 .00 .00 .00	.00 .01 .00 .00	.00 .00 .00 .00	 	.03 .02 .04 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.22 .48 .00 .00	.00 .08 .02 .00	.00 .00 .00 .01		
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .02 .00	.00 .00 .00 .00	.00 .00 .00 .00	 	.01 .22 .00 .00	.00 .00 .06 .00	.00 .00 .00 .03	.00 .00 .00 .00	.03 .00 .00 .00	.77 .00 .00 .00	.02 .00 .21 .01		
26 27 28 29 30 31	.00 .00 .00 .14 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 e.00 	 	.00 .00 .03 .06 .19	.00 .00 .00 .13 .17	.00 .00 .00 .00	.33 .20 .00 .07 .00	.10 .00 .20 .00 .00	.05 .00 .00 .00	.00 .00 .00 .00		
TOTAL MAX	0.58 .24	0.02	0.01				0.61 .17	0.47	0.61 .33	1.29 .48	1.20 .77	0.28		

e Estimated.

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued

372249103573302 GUTIERREZ WINDMILL METEOROLOGICAL STATION NEAR MODEL, CO

LOCATION.—Lat $37^{\circ}22^{\circ}49^{\circ}$, long $103^{\circ}57^{\circ}33^{\circ}$, in $SW^{1}/_{4}SE^{1}/_{4}$ sec.36, T.30 S., R.59 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site 0.9 mi south of military supply road 2, 16 mi east of Model, and 33 mi northeast of Trinidad.

PRECIPITATION RECORDS

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

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,130 ft above sea level, from topographic map

REMARKS.--Records for 1999 water year are good except for May 20 to June 30, which are poor. Records for 2000 water year are fair except for Oct. 1 to Feb. 29, which are poor. Daily data that are not published are either missing or of unacceptable guality

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 1.43 inches, Aug. 21, 2000.

EXTREMES FOR 1999 WATER YEAR.--Maximum daily precipitation for period March to September, 1.20 inches, May 1, but may have been higher during periods of missing record, May 21 to June 2 and July 26 to Sept. 20.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 1.43 inches, Aug. 21.

		PRECI	IPITATION,	TOTAL,	INCHES, W	ATER YEAR Y SUM VALI		1998 TO S	EPTEMBER 1	.999		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							.00	1.20		.00		
2							.00	.01		.00		
3							.03	.00	e.00	.03		
4							.00	.01	.00	.00		
5							.00	.09	.00	.00		
6							.00	.03	.00	.00		
7							.00	.00	.00	.00		
8							.00	.00	.00	.10		
9							.00	.00	.60	.00		
10							.00	.00	.00	.00		
11							.00	.18	.01	.00		
12							.00	.00	.09	.00		
13							.83	.00	.00	.00		
14							.27	.00	.01	.00		
15							.00	.00	.01	.00		
16							.00	.00	.00	.07		
17							.01	.00	.03	.07		
18							.00	.00	.01	.02		
19							.00	.01	.00	.00		
20							.00	e.00	.00	.00		
21							.01		.00	.00		.00
22							.42		.00	.00		.00
23							.07		.00	.00		.00
24						e.00	.33		.00	.00		.00
25						.00	.08		.00	.00		.00
26						.00	.00		.00			.00
27						.00	.00		.00			.01
28						.00	.18		.00			.00
29						.00	.07		.00			.00
30						.00	.99		.00			.00
31						.00						
TOTAL							3.29					
MAX							.99					

e Estimated.

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued

372249103573302 GUTIERREZ WINDMILL METEOROLOGICAL STATION NEAR MODEL, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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 .00	.00 .00 .00 .03	.00 .00 .00 .00	.00 .00 .00 .00	.08 .03 .02 .00	.06 .01 .06 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .01 .00 .00	.00 .00 .00 .00	.00 .00 .00 .03
6 7 8 9 10	.00 .10 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .52 .00 .00	.00 .00 .00 .00	.00 .00 .51 .00	.00 .00 .00 .00	.02 .00 .03 .03	.00 .00 .00 .00	.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	.01 .00 .00 .00	.01 .00 .00 .00	.20 .00 .00 .00	.00 .00 .00 .00	.02 .00 .00 .00	.01 .01 .00 .00	.06 .03 .00 .00	.00 .00 .00 .00
16 17 18 19 20	.02 .03 .01 .01	.00 .00 .00 .00	.00 .01 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.10 .00 .07 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .01 .00	.38 .08 .00 .00	.00 .19 .04 .01	.00 .00 .00 .00
21 22 23 24 25	.00 .00 .00 .00	.00 .01 .03 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .07 .03 .00	.03 .23 .00 .00	.00 .00 .02 .00	.00 .00 .00 .01 .03	.00 .00 .01 .00	.00 .00 .00 .00	1.43 .00 .00 .00	.00 .01 .19 .05
26 27 28 29 30 31	.00 .00 .00 .02 .00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .09 .06 .02 .00	.00 .00 .01 .29	.00 .00 .02 .02 .28	.00 .00 .00 .37 .27	.00 .00 .00 .00	.02 .30 .00 .02 .00	.09 .00 .16 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
TOTAL MAX	0.20	0.04	0.04	0.17 .09	0.41 .29	2.03 .52	0.99 .37	0.57 .51	0.50	0.82	1.81 1.43	0.33

WTR YR 2000 TOTAL 7.91 MAX 1.43

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued

372701103514501 MINCIC METEOROLOGICAL STATION NEAR HOUGHTON, CO

LOCATION.—Lat $37^{\circ}27^{\circ}01^{\circ}$, long $103^{\circ}51^{\circ}45^{\circ}$, in $NE^{1}/_{4}NE^{1}/_{4}$ sec.11, T.30 S., R.58 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site, approximately 0.1 mi west of Military Supply Road 4A, 0.7 mi south of Military Supply Road 4, 14 mi southeast of Houghton, and 40 mi northeast of Trinidad.

PRECIPITATION RECORDS

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

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,078 ft above sea level, from topographic map.

REMARKS.--Records for 1999 water year are good. Records for 2000 water year are good except for Nov. 21 to Feb. 29, and Mar. 1 to Apr. 25, which are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 1.08 inches, Aug. 3, 1999.

EXTREMES FOR 1999 WATER YEAR.--Maximum daily precipitation for period March to September, 1.08 inches, Aug. 3, but may have been higher during periods of missing record, Mar. 17 to May 14 and Sept. 22-30.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 0.48 inch, July 17, but may have been higher during periods of missing record, Oct. 1 to Nov. 20, Mar. 17 to Apr. 20, Apr. 26 to June 21, and Aug. 19 to Sept. 24.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAILY SUM VALUES

					וחדאת	L DOM VALC	DEO					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									.00	.00	.70	.00
2									.00	.00	.00	.09
3									.00	.00	1.08	.00
4									.00	.00	.63	.00
5									.00	.00	.00	.00
6									.00	.00	.05	.00
7									.00	.00	.00	.00
8									.00	.02	.00	.00
9									.23	.00	.00	.00
10									.00	.00	.00	.00
11									.01	.00	.03	.00
12									.43	.00	.00	.00
13									.00	.00	.00	.00
14									.01	.00	.00	.01
15								e.00	.00	.00	.00	.76
16								.00	.00	.13	.00	.01
17								.00	.11	.03	.00	.00
18								.00	.01	.00	.02	.00
19								.08	.00	.01	.00	.00
20								.00	.00	.53	.02	.00
21								.00	.00	.08	.00	e.00
22								.00	.00	.00	.00	
23								.00	.00	.02	.00	
24								.00	.00	.04	.00	
25								.04	.00	.21	.00	
26								.24	.00	.00	.00	
27								.00	.00	.00	.00	
28								.00	.00	.00	.02	
29								.00	.00	.00	.02	
30								.00	.00	.24	.00	
31								.00		.97	.00	
TOTAL									0.80	2.28	2.57	
MAX									.43	.97	1.08	

e Estimated.

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued 372701103514501 MINCIC METEOROLOGICAL STATION NEAR HOUGHTON, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY SUM VALUES

					DAIL	Y SUM VAL	JES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			.00	.00	.00	.04				.01	.00	
2			.00	.00	.00	.05				.00	.00	
3			.00	.00	.00	.03				.00	.14	
4			.01	.00	.00	.00				.00	.01	
5			.01	.00	.00	.00				.00	.00	
-												
6			.00	.00	.00	.00				.07	.00	
7			.00	.00	.00	.45				.00	.00	
8			.00	.00	.00	.00				.00	.00	
9			.00	.00	.00	.00				.03	.00	
10			.00	.00	.01	.00				.00	.00	
11			0.0	0.0	0.0	0.1				.07	0.0	
11			.00	.00	.00	.01					.00	
12			.00	.00	.00	.00				.01	.03	
13			.00	.00	.00	.00				.00	.00	
14			.00	.00	.00	.00				.00	.00	
15			.00	.00	.00	.22				.00	.00	
16			.00	.00	.00	e.00				.46	.00	
17			.00	.00	.00					.48	.19	
18			.00	.00	.00					.00	e.00	
19			.00	.00	.00					.00		
20			.00	.00	.00					.00		
21		e.00	.00	.00	.00		e.00			.07		
22		.00	.00	.00	.05		.00		e.00	.00		
23		.02	.00	.00	.14		.04		.00	.00		
24		.00	.00	.00	.00		.01		.00	.00		
25		.00	.00	.00	.00		e.00		.14	.00		e.00
26		.00	.00	.00	.00				.12	.07		.00
27		.00	.00	.00	.00				.21	.00		.00
28		.00	.00	.08	.01				.02	.20		.00
29		.00	.00	.01	.34				.03	.00		.00
30		.00	.00	.00	.54				.27	.00		.00
31			.00	.00						.00		
31			.00	.00						.00		
TOTAL			0.02	0.09	0.55					1.47		
MAX			.01	.08	.34					.48		

e Estimated.

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued

373706103410701 ROURKE METEOROLOGICAL STATION NEAR HIGBEE, CO

LOCATION.--Lat $37^{\circ}37^{\circ}06^{\circ}$, long $103^{\circ}41^{\circ}07^{\circ}$, in $SE^{1}/_{4}SE^{1}/_{4}$ sec.9, T.28 S., R.56 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site, 0.8 mi south of Military Supply Road 1A, 3.1 mi northwest of Rourke Ranch, 16 mi southwest of Higbee, and 26 mi south of La Junta.

PRECIPITATION RECORDS

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

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 4,700 ft above sea level, from topographic map.

REMARKS.--Records for 1999 water year are poor. Records for 2000 water year are good except for Nov. 1 to Feb. 29, which are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 2.05 inches, July 11, 2000.

EXTREMES FOR 1999 WATER YEAR.--Maximum daily precipitation for period March to September, 0.43 inch, Aug. 22, but may have been higher during periods of missing record, Mar. 16 to May 18, June 9 to July 14, and Aug. 29 to Sept. 20.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 2.05 inches, July 11.

		PREC1	PITATION,	TOTAL, I		ATER YEAR 7 SUM VALU		1998 TO SE	PTEMBER 1	L999		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									.00		.00	
2									.00		.00	
3									.00		.00	
4									.00		.00	
5									.00		.07	
6									.00		.14	
7									.00		.00	
8									.00		.00	
9											.05	
10											.00	
11											.00	
12											.00	
13											.00	
14											.00	
15										e.00	.00	
16										.00	.00	
17										.00	.00	
18										.00	.00	
19								e.21		.00	.03	
20								.00		.00	.00	
21								.00		.00	.00	e.00
22								.00		.00	.43	.00
23								.00		.00	.01	.00
24								.00		.00	.24	.01
25								.06		.38	.00	.00
26								.03		.00	.00	.00
27								.00		.05	.00	.00
28								.00		.00	e.02	.11
29								.00		.02		.00
30								.00		.00		.00
31								.00		.00		
TOTAL												
MΔX												

e Estimated.

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued 373706103410701 ROURKE METEOROLOGICAL STATION NEAR HIGBEE, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		PREC.	IPITALION	, IUIAL, .		Y SUM VALI		1999 10 5	EPIEMBER .	2000		
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 .01 .02	.06 .01 .00 .00	.00 .00 .00 .00	.02 .12 .05 .00	.19 .00 .10 .00	.00 .00 .00 .00	.01 .00 .10 .00	.00 .00 .00 .00	.00 .00 .01 .00	.00 .00 .00 .00
6 7 8 9 10	.00 .25 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .20 .08 .00	.00 .00 .00 .00	.00 .00 .52 .00	.00 .00 .00 .00	.03 .00 .00 .00	.81 .00 .00 .00	.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	.01 .00 .00 .00	.31 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	2.05 .01 .00 .00	.00 .00 .03 .00	.00 .00 .00 .00
16 17 18 19 20	.02 .15 .24 .16	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.07 .02 .13 .00	.00 .00 .00 .00	.00 .00 .00 .04 .00	.00 .00 .00 .00	.03 .57 .00 .00	.00 .26 .00 .00	.00 .00 .00 .00
21 22 23 24 25	.00 .00 .00 .00	.00 .00 .23 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .04 .38 .00	.02 .17 .00 .00	.00 .00 .09 .00	.00 .00 .00 .01	.00 .01 .00 .01	.00 .00 .00 .00	.00 .00 .00 .00	.02 .00 .14 .04
26 27 28 29 30 31	.00 .00 .00 .19 .00	.00 .00 .00 .01 .00	.00 .00 .00 .00	.00 .07 .05 .00 .00	.00 .00 .01 .16	.00 .00 .00 .02 .71	.00 .00 .03 .12 .39	.00 .00 .00 .00 .00	.83 .69 .00 .21 .00	.00 .00 .05 .00 .00	.16 .00 .00 .00 .00	.00 .00 .00 .00
TOTAL MAX	1.01 .25	0.24	0.04	0.19	0.59	1.98 .71	1.23	0.57 .52	2.59	2.97 2.05	1.38	0.23

WTR YR 2000 TOTAL 13.02 MAX 2.05

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued

372329104020501 ROUTE TWO WINDMILL METEOROLOGICAL STATION NEAR TYRONE, CO

LOCATION.--Lat $37^{\circ}23^{\circ}29^{\circ}$, long $104^{\circ}02^{\circ}05^{\circ}$, in $NW^{1}/_{4}NE^{1}/_{4}$ sec.32, T.30 S., R.59 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site, 0.3 mi south of Military Supply Road 2, 4.6 mi east of Brown Sheep Camp, 10 mi southeast of Tyrone, and 30 mi northeast of Trinidad.

PRECIPITATION RECORDS

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

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,255 ft above sea level, from topographic map.

REMARKS.--Records for 1999 water year are good except for May 20 to June 30, which are poor. Records for 2000 water year are good except for Jan. 25 to Feb. 29, which are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 1.44 inches, July 31, 1999.

EXTREMES FOR 1999 WATER YEAR.--Maximum daily precipitation during period March to September, 1.44 inches, July 31, but may have been greater during periods of missing record, Mar. 17 to May 19 and Sept. 22-30.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 0.63 inch, May 8, but may have been greater during periods of missing record, Oct. 1 to Nov. 22, Nov. 24 to Jan. 25, and June 21 to Aug. 27.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

					DAILI	SUM VALU	JES .					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									.00	.00	.23	.00
2									.00	.00	.01	.00
3									.00	.13	1.24	.00
4									.00	.00	.35	.00
5									.00	.00	.01	.00
6									.00	.00	.03	.00
7									.00	.00	.00	.00
8									.00	.35	.04	.00
9									.28	.00	.00	.00
10									.00	.00	.00	.03
11									.88	.00	.00	.01
12									.38	.00	.00	.00
13									.00	.00	.00	.00
14									.07	.00	.00	.02
15									.01	.00	.00	1.14
16									.00	.04	.00	.01
17									.03	.16	.00	.00
18									.00	.00	.04	.00
19									.00	.01	.00	.00
20								e.00	.00	.00	.00	.00
21								.00	.00	.00	.08	e.00
22								.00	.00	.00	.00	
23								.00	.00	.03	.00	
24								.00	.00	.01	.00	
25								.00	.00	.00	.00	
26								.01	.00	.00	.00	
27								.00	.00	.00	.00	
28								.00	.00	.00	.00	
29								.00	.00	.00	.08	
30								.00	.00	.35	.00	
31								.00		1.44	.00	
TOTAL									1.65	2.52	2.11	
MAX									.88	1.44	1.24	

e Estimated.

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued

372329104020501 ROUTE TWO WINDMILL METEOROLOGICAL STATION NEAR TYRONE, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

					DAIL	Y SUM VALU	JES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					.00	.05	.07	.00	.00			.00
2					.00	.01	.00	.00	.00			.00
3					.00	.01	.04	.00	.00			.00
4					.00	.00	.00	.00	.00			.08
5					.00	.00	.00	.00	.00			.00
6					.00	.00	.00	.00	.00			.00
7					.00	.55	.00	.00	.00			.00
8					.00	.00	.00	.63	.00			.00
9					.00	.00	.00	.00	.00			.00
10					.00	.00	.00	.00	.11			.00
11					.01	.01	.17	.00	.00			.00
12					.00	.00	.00	.00	.00			.00
13					.00	.00	.00	.00	.00			.00
14					.00	.00	.00	.00	.00			.00
15					.00	.35	.00	.00	.00			.00
16					.00	.12	.00	.00	.00			.00
17					.00	.01	.00	.00	.00			.00
18					.00	.06	.00	.00	.01			.00
19					.00	.00	.00	.00	.00			.00
20					.00	.00	.00	.03	e.00			.02
21					.00	.03	.00	.01				.02
22					.08	.30	.00	.00				.02
23		.00			.02	.00	.03	.00				.21
24					.00	.00	.00	.04				.02
25					.00	.00	.00	.00				.00
26				e.00	.00	.00	.00	.00				.00
27				.12	.00	.00	.00	.00				.00
28				.04	.01	.03	.00	.00			e.00	.00
29				.06	.20	.05	.12	.00			.00	.00
30				.00		.23	.14	.00			.00	.00
31				.00		.14		.00			.00	
TOTAL					0.32	1.95	0.57	0.71				0.37
MAX					.20	.55	.17	.63				.21

e Estimated.

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued

373823103465601 UPPER BENT CANYON METEOROLOGICAL STATION NEAR DELHI, CO (Formerly published as Bent Canyon Rain Gage above Stage Canyon near Delhi, CO.)

LOCATION (REVISED).--Lat $37^{\circ}38^{\circ}20^{\circ}$, long $103^{\circ}46^{\circ}55^{\circ}$, in $SW^{1}/_{4}NW^{1}/_{4}$ 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 October 1998, March 1999 to current year. Site was part of a hydrologic study 1985-92, data published elsewhere.

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 4,860 ft above sea level, from topographic map.

REMARKS.--Records for 1999 water year are good. Records for 2000 water year are good except for Nov. 1 to Feb. 29, which are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD. -- Maximum daily precipitation, 2.55 inches, May 3, 1987.

EXTREMES FOR 1999 WATER YEAR.--Maximum daily precipitation for period October 1-6 and March to September, 0.79 inch, June 17, but may have been higher during period of instrument failure, Mar. 15 to May 13 and July 9 to Sept. 22.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 1.44 inches, July 17.

					DAILY	SUM VALU	ES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34								.00	.00		
2	.01								.00	.00		
3	.00								.00	.00		
4	.01								.00	.16		
5	.00								.00	.00		
6	e.00								.00	.00		
7									.00	.00		
8									.00	e.00		
9									.08			
10									.00			
									0.0			
11									.01			
12									.09			
13									.00			
14								e.00	.08			
15								.00	.00			
16								.00	.00			
17								.00	.79			
18								.00	.00			
19								.04	.00			
20								.00	.00			
20								.00	.00			
21								.00	.00			
22								.00	.00			
23								.00	.00			.00
24								.00	.00			.00
25								.04	.00			.00
26								.01	.00			.00
27								.00	.00			.00
28								.00	.00			.04
29								.00	.00			.00
30								.00	.00			.00
31								.00				
TOTAL									1.05			
MAX									.79			

e Estimated.

arkansas river basin 423

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued

373823103465601 UPPER BENT CANYON METEOROLOGICAL STATION NEAR DELHI, CO--Continued (Formerly published as Bent Canyon Rain Gage above Stage Canyon near Delhi, CO.)

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY SUM VALUES

					DAIL	Y SUM VALI	JES					
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	.05 .00 .01 .00	.00 .00 .00 .00	.03 .10 .07 .00	.08 .00 .15 .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 .07 .00 .00	.00 .00 .00 .00	.01 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .31 .04 .00	.00 .00 .00 .00	.00 .00 .56 .00	.00 .00 .00 .00	.01 .05 .00 .00	.15 .00 .00 .00	.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	.01 .00 .00 .00	.18 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.48 .00 .00 .00	.00 .00 .33 .00	.00 .00 .00 .00
16 17 18 19 20	.06 .18 .23 .19	.00 .00 .00 .00	.00 .01 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.07 .02 .15 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.02 1.44 .01 .00	.00 .56 .01 .00	.00 .00 .00 .00
21 22 23 24 25	.00 .00 .00 .00	.00 .01 .05 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .05 .38 .00	.08 .24 .00 .00	.00 .00 .06 .00	.00 .00 .00 .02	.00 .04 .05 .01	.01 .00 .00 .00	.02 .00 .00 .00	.08 .01 .29 .06
26 27 28 29 30 31	.00 .00 .00 .28 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .04 .04 .00 .00	.00 .00 .00 .17	.00 .00 .00 .03 .66	.00 .00 .10 .05 .41	.00 .00 .00 .03 .00	1.14 .61 .01 .07 .00	.00 .00 .04 .00 .00	.08 .00 .00 .00	.00 .00 .00 .00
TOTAL MAX	1.01	0.06	0.02	0.14	0.60	2.19	1.03	0.61 .56	2.08 1.14	2.35 1.44	1.16 .56	0.49

WTR YR 2000 TOTAL 11.74 MAX 1.44

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued

373315103493101 UPPER RED ROCK CANYON METEOROLOGICAL STATION NEAR HOUGHTON, CO (Formerly published as Red Rock Canyon Rain Gage at Red Rock Road).

LOCATION (REVISED).--Lat $37^{\circ}33^{\circ}12^{\circ}$, long $103^{\circ}49^{\circ}30^{\circ}$, in $NE^{1}/_{4}$ NE $^{1}/_{4}$ sec.6, T.29 S., R.57 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site, approximately 100 ft west of unnumbered Military Supply Road, 0.4 mi south of Military Supply Road 1, 12.2 mi southeast of Houghton, and 33 mi southwest of La Junta.

PRECIPITATION RECORDS

PERIOD OF RECORD.--October 1992 to October 1998, March 1999 to current year. Site was part of a hydrologic study 1983-92, data published elsewhere.

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 4,860 ft above sea level, from topographic map.

REMARKS.--Records for 1999 water year are good. Records for 2000 water year are good except for Nov. 1 to Feb. 29, which are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD. -- Maximum daily precipitation, 2.75 inches, July 1, 1993.

EXTREMES FOR 1999 WATER YEAR.--Maximum daily precipitation for period Oct. 1-6 and March to September, 0.37 inch, Oct. 1, but may have been higher during instrument failure, Mar. 16 to Sept. 20.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 1.33 inches, June 26.

					DAILI	SUM VALU	ES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.37											
2	.01											
3	.00											
4	.00											
5	.00											
6	e.00											
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												e.00
22												.00
23												.00
24												.00
25												.00
26												.00
27												.00
28												.01
29												.00
30												.00
31												
TOTAL												

e Estimated.

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE--Continued

373315103493101 UPPER RED ROCK CANYON METEOROLOGICAL STATION NEAR HOUGHTON, CO--Continued (Formerly published as Red Rock Canyon Rain Gage at Red Rock Road).

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY SUM VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP .00 .00 .00 .00 .00 .07 .10 .00 .00 .00 .00 .00 2 .00 .00 .00 .00 .00 .09 .04 .00 .00 .00 .00 .00 .00 .00 .00 .00 00 .06 0.0 .00 .00 .00 .00 .00 .00 .00 .00 .02 .00 .00 .00 .00 .00 .00 .10 5 .00 .00 .02 .00 .00 .00 .00 .00 .00 .00 .13 .00 6 7 .00 .00 .00 .00 .00 .00 .00 .00 .00 .49 .43 .00 . 00 .00 .11 .00 .00 .00 . 00 . 56 .00 .00 . 27 .00 .01 .00 .00 .00 .02 .00 .63 .00 .00 .00 .00 .00 .00 .00 .00 . 00 .00 . 00 .00 .00 .00 .00 .00 .00 10 .00 .00 .00 .00 .00 .01 .00 .00 11 .00 12 13 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .32 .00 .00 .00 .00 .00 .00 .00 .00 14 .00 .00 . 00 .00 . 00 .00 . 00 .00 . 00 .00 .00 .00 15 .00 .00 .00 .00 .00 .21 .00 .00 .00 .00 .00 .00 16 .03 .00 .00 .00 .00 .07 .00 .00 .00 .13 .00 .00 17 18 .17 .03 .00 .00 .84 .00 .00 .00 .00 .00 .71 .00 .00 .02 .00 .00 .00 .00 .00 19 . 24 .00 .00 .00 .00 .01 .00 .00 .00 .00 .00 .00 20 .00 .00 .00 .00 .00 .00 .02 .00 .03 21 22 23 .02 .33 .01 .00 .00 .00 .00 .00 .00 .00 .00 .00 .23 .02 .01 .00 .01 .00 .00 .08 .00 .00 .00 .02 .00 .00 .00 .24 .00 .00 .39 .00 .00 .00 .26 24 25 .00 .00 .00 .00 .00 .00 .00 .04 .01 .06 .00 .05 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 26 .00 .00 .00 .00 .00 .00 .00 .00 1.33 .00 .51 .00 27 28 .00 .00 .00 .09 .00 .00 .00 .00 .36 .00 .00 .00 29 30 .38 .00 .00 .00 .41 .05 .13 .07 .03 .00 .00 .00 .00 .00 .00 .00 .00 .70 .43 .00 .00 .00 .00 31 .00 .00 .00 ___ .23 .00 .00 .00

2.59

.70

1.45

.46

0.74

.63

1.75

1.33

2.36

.71

2.52

.84

0.46

.26

WTR YR 2000 TOTAL 14.30 MAX 1.33

0.25

.24

0.04

.02

0.18

.09

0.88

.41

1.08

.38

TOTAL

MAX

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

06614800 MICHIGAN RIVER NEAR CAMERON PASS, CO (LAT 40 29 46N LONG 105 51 52W)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 04	1230	1.4	54	4.5	MAY 11	1420	4.1	38	.5
NOV 03	1038	.46	54	2.0	JUN 08	1120	20	27	3.0
JAN 04	1455	.34	55	1.0	JUL 24	1613	1.8	39	13.0
FEB 28	1334	.31	52	1.5	AUG 22	1536	1.2	43	10.0
APR 04	1424	.33	51	1.5	SEP 14	1555	.94	52	11.0
04	1424		51	1.5	11	1555	.94	32	11.0
	066	593800	MOSQU	ITO CREEK I	NEAR ALMA, CO (LAT 39 16 12	N LONG 10)6 03 02W)		
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 07	1130	13	226	4.0	MAY 25	1305	74	105	7.5
NOV 30	1340	8.5	283	.2	JUN 22	1305	40	138	6.3
JAN 14	1400	5.2	314	.0	JUL 31	1400	14	202	14.5
FEB 28	1450	4.4	311	. 2	SEP 07	1300	14	206	11.5
MAR 23	1345	4.0	317	.9	07	1300		200	11.5
DATE	06701970 TIME	SPRIN DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	BOVE MOUTH TEMPER- ATURE WATER (DEG C) (00010)	NEAR SOUTH PLATTE, CO (LAT	39 23 35 TIME	ON LONG 10 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)		TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
DATE OCT 13 MAR	TIME 1050	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE JUN 22 AUG	TIME 1020	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 13 MAR 27	TIME 1050 1155	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE JUN 22	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)
DATE OCT 13 MAR 27 APR 18 MAY	TIME 1050 1155 1105	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) 1.8 1.4	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE JUN 22 AUG 02	TIME 1020 1220	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
DATE OCT 13 MAR 27 APR 18	TIME 1050 1155	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) 1.8 1.4 1.5	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 210 204 204	TEMPER-ATURE WATER (DEG C) (00010) 11.0 12.0 13.0 16.5	DATE JUN 22 AUG 02	TIME 1020 1220 1020	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) .93	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 219 213 221	TEMPER- ATURE WATER (DEG C) (00010)
DATE OCT 13 MAR 27 APR 18 MAY	1050 1155 1105 1130	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) 1.8 1.4 1.5	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 210 204 204	TEMPER-ATURE WATER (DEG C) (00010) 11.0 12.0 13.0 16.5	JUN 22 AUG 02 31	TIME 1020 1220 1020	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) .93	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 219 213 221	TEMPER- ATURE WATER (DEG C) (00010)
DATE OCT	TIME 1050 1155 1105 1130 06706800	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) 1.8 1.4 1.5 1.1 BUFF DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 210 204 210 ALO CREEK SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010) 11.0 12.0 13.0 16.5 AT MOUTH ATTEMPER-ATURE WATER (DEG C) (00010)	JUN 22 AUG 02 31 AT BUFFALO CREEK, CO (LAT 3	TIME 1020 1220 1020 9 23 27N TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) .93 1.1 .99 LONG 105 DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 219 213 221 16 15W) SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010) 19.5 22.0 18.5 TEMPER- ATURE WATER (DEG C) (00010)
DATE OCT	TIME 1050 1155 1105 1130 06706800 TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) 1.8 1.4 1.5 1.1 BUFF DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 210 204 210 ALO CREEK SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010) 11.0 12.0 13.0 16.5 TAT MOUTH ATURE WATER (DEG C) (00010) 12.5	DATE JUN 22 AUG 02 31 AT BUFFALO CREEK, CO (LAT 3 DATE JUN 22 28	TIME 1020 1220 1020 9 23 27N	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) .93 1.1 .99 LONG 105 DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) 219 213 221 16 15W) SPE-CIFIC CON-DUCT-ANCE (US/CM) (US/CM)	TEMPER-ATURE WATER (DEG C) (00010) 19.5 22.0 18.5 TEMPER-ATURE WATER (DEG C)
DATE OCT 13 MAR 27 APR 18 MAY 16 DATE	TIME 1050 1155 1105 1130 06706800	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) 1.8 1.4 1.5 1.1 BUFF DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 210 204 210 ALO CREEK SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010) 11.0 12.0 13.0 16.5 AT MOUTH ATTEMPER-ATURE WATER (DEG C) (00010)	DATE JUN 22 AUG 02 31 AT BUFFALO CREEK, CO (LAT 3 DATE JUN 22	TIME 1020 1220 1020 9 23 27N TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) LONG 105 DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 219 213 221 16 15W) SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010) 19.5 22.0 18.5 TEMPER-ATURE WATER (DEG C) (00010)

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

06708800 EAST PLUM CREEK BELOW HASKINS GULCH NEAR CASTLE ROCK, CO (LAT 39 25 28N LONG 104 54 27W)

0070000			ORCHELIC DEL		COLOR NAME CROTEL ROOM, C	0 (1111 0)	25 2011 20		. 27117
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)
OCT 07	1547	11	371	13.0	APR 07	1231	32	256	10.0
NOV		14	340		MAY		28	235	
04 DEC	1105			10.5	02 JUN	1103			15.5
06 JAN	1128	14	339	1.0	30 JUL	1423	5.4	367	21.0
06 FEB	1435	14	386	.0	26 AUG	1345	1.7	447	24.0
18 MAR	1124	7.3	357	2.5	10 SEP	1132	.95	469	26.0
13	1035	11	333	9.0	12	1102	5.3	424	20.5
	06709	DIS-		EEK NEAR	EDALIA, CO (LAT 39 26	18N LONG	DIS-		
DATE	TIME	CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 08	1057	21	381	12.0	APR 03	1250	62	321	10.0
NOV 04	1310	26	380	13.5	MAY 02	1328	88	198	20.0
DEC	1356	33	340	3.5	JUN	1425	21	309	25.1
06 JAN					06 JUL			401	
06 FEB	1613	25	406	.0	03 27	1215 1130	7.7 3.4	463	21.0 26.5
18 MAR	1338	24	380	7.5	AUG 10	1328	1.9	498	28.5
13	1252	22	389	13.5					
	06709530		UM CREEK	AT TITAN	D NEAR LOUVIERS, CO (LAT 3	9 30 27N 3		1 23W)	
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 08	1403	16	396	12.0	APR 07	1425	74	278	13.5
NOV 04	1530	23	389	12.0	MAY 02	1550	80	224	22.0
DEC 07	1430	24	375	3.0	JUN 06	1236	16	317	22.3
JAN 03	1513	22	401	.0	30 SEP	1205	6.7	386	24.0
FEB 18	1540	20	386	5.0	12	1450	4.4	442	20.5
MAR 13	1455	18	396	12.5					

06710247 SOUTH PLATTE RIVER BELOW UNION AVE, AT ENGLEWOOD, CO (LAT 39 37 58N LONG 105 00 54W)

067102	47	SOUTH PL	ATTE RIVE	R BELOW UNIC	N AVE, AT ENGLEWOOD, CO (LAT 39 3	7 58N LONG	105 00 5	54W)
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 06	1320	70	546	15.7	APR 10	1140	135	437	11.8
NOV 23	1520	137	426	7.6	MAY 04	1105	237	494	15.9
JAN 11	1115	55	751	4.8	JUN 20	1430	276	487	21.5
MAR 01	1540	52	567	11.0					
	06710	0385	BEAR CR	EEK ABOVE EV	ERGREEN, CO (LAT 39 37 5	8N LONG	105 19 59W)	
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 05	1020	31	64	4.1	MAY 04	1210	58	63	11.5
NOV 24	1040	10	91	.0	JUN 06	1332	28	62	15.5
JAN 21	1020	15	83	.0	JUL 11	1115	20	62	18.0
MAR 01	1140	15	95	.8	SEP 13	1305	18	61	15.5
APR 04	1413	21	128	8.7					
06710 DATE	605 TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	LAKE NEAR MORRISON, CO (I	AT 39 39	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)	DATE MAY	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
DATE		DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE		DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
DATE OCT 05 NOV	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE MAY 04 JUN	TIME 0923	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 05 NOV 26 JAN 13 MAR 01	TIME 1400 1430	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE MAY 04 JUN 06 JUL	TIME 0923 1340	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
DATE OCT	TIME 1400 1430 1140	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE MAY 04 JUN 06 JUL 11 SEP	TIME 0923 1340 0940	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) 47 6.1 8.9	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 167 190	TEMPER- ATURE WATER (DEG C) (00010) 10.5 16.5 17.6
DATE OCT	TIME 1400 1430 1140 1311 1120	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) 27 34 17 17 29	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 164 194 286 260 242	TEMPER- ATURE WATER (DEG C) (00010) 8.9 2.1 .2 4.5	DATE MAY 04 JUN 06 JUL 11 SEP	TIME 0923 1340 0940 1519	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) 47 6.1 8.9 5.1	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 167 190 175	TEMPER-ATURE WATER (DEG C) (00010) 10.5 16.5 17.6 17.8
DATE OCT	TIME 1400 1430 1140 1311 1120	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) 27 34 17 17	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 164 194 286 260 242	TEMPER- ATURE WATER (DEG C) (00010) 8.9 2.1 .2 4.5	DATE MAY 04 JUN 06 JUL 11 SEP 13	TIME 0923 1340 0940 1519	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) 47 6.1 8.9 5.1	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 167 190 175	TEMPER-ATURE WATER (DEG C) (00010) 10.5 16.5 17.6 17.8
DATE OCT	TIME 1400 1430 1140 1311 1120 995	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) 27 34 17 17 29 TURKEY DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 164 194 286 260 242 CREEK AT SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010) 8.9 2.1 .2 4.5 7.0 MOUTH OF CAN TEMPER-ATURE WATER (DEG C) (00010)	DATE MAY 04 JUN 06 JUL 11 SEP 13 YON, NEAR MORRISON, CO (I	TIME 0923 1340 0940 1519 AT 39 37	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) 47 6.1 8.9 5.1 13N LONG DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 167 190 175 166 105 11 41 SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010) 10.5 16.5 17.6 17.8 W) TEMPER-ATURE WATER (DEG C) (00010)
DATE OCT	TIME 1400 1430 1140 1311 1120 995	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 27 34 17 17 29 TURKEY DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 164 194 286 260 242 CREEK AT SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010) 8.9 2.1 .2 4.5 7.0 MOUTH OF CAN TEMPER- ATURE WATER (DEG C) (00010) 5.7 4.0	DATE MAY 04 JUN 06 JUL 11 SEP 13 TYON, NEAR MORRISON, CO (I	TIME 0923 1340 0940 1519 AT 39 37 TIME 0940	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) 47 6.1 8.9 5.1 13N LONG DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) 167 190 175 166 105 11 41 SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010) 10.5 16.5 17.6 17.8 W) TEMPER-ATURE WATER (DEG C) (00010) 3.6
DATE OCT	TIME 1400 1430 1140 1311 1120 995	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) 27 34 17 17 29 TURKEY DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 164 194 286 260 242 CREEK AT SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010) 8.9 2.1 .2 4.5 7.0 MOUTH OF CAN TEMPER- ATURE WATER (DEG C) (00010)	DATE MAY 04 JUN 06 JUL 11 SEP 13 YON, NEAR MORRISON, CO (I	TIME 0923 1340 0940 1519 AT 39 37	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) 47 6.1 8.9 5.1 13N LONG DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 167 190 175 166 105 11 41 SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010) 10.5 16.5 17.6 17.8 W) TEMPER-ATURE WATER (DEG C) (00010)
DATE OCT	TIME 1400 1430 1140 1311 1120 995 TIME 1215 1345 1425	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) 27 34 17 17 29 TURKEY DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 164 194 286 260 242 CREEK AT SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010) 8.9 2.1 .2 4.5 7.0 MOUTH OF CAN TEMPER-ATURE WATER (DEG C) (00010) 5.7 4.0 3.9	DATE MAY 04 JUN 06 JUL 11 SEP 13 YON, NEAR MORRISON, CO (I	TIME 0923 1340 0940 1519 AAT 39 37 TIME 0940 1425	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) 47 6.1 8.9 5.1 13N LONG DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 167 190 175 166 105 11 41 SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010) 10.5 16.5 17.6 17.8 W) TEMPER-ATURE WATER (DEG C) (00010) 3.6 15.0
DATE OCT	TIME 1400 1430 1140 1311 1120 995 TIME 1215 1345 1425 1305	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 27 34 17 17 29 TURKEY DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 164 194 286 260 242 CREEK AT SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 467 494 494	TEMPER-ATURE WATER (DEG C) (00010) 8.9 2.1 .2 4.5 7.0 MOUTH OF CAN TEMPER-ATURE WATER (DEG C) (00010) 5.7 4.0 3.9 .0	DATE MAY 04 JUN 06 JUL 11 SEP 13 YON, NEAR MORRISON, CO (I DATE APR 06 MAY 04 JUN 06 SEP	TIME 0923 1340 0940 1519 AT 39 37 TIME 0940 1425 1525	DIS- CHARGE, INST. CUBIC FEET PER SECOND(00061) 47 6.1 8.9 5.1 13N LONG DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 23 10 1.5	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 167 190 175 166 105 11 41 SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010) 10.5 16.5 17.6 17.8 W) TEMPER-ATURE WATER (DEG C) (00010) 3.6 15.0 18.0

429 MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

	067120	00	CHERRY C	REEK NEAR	FRANKTOWN, CO) (LAT 39 21	21N LONG	104 45 46	W)	
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	0050	0.0	010	10.5		APR	1006	20	0.40	6.5
07 NOV	0950	9.8	219	10.5		07 MAY	1026	32	243	6.5
01 DEC	1050	12	220	4.5		04 JUN	1157	10	249	15.5
08 JAN	1215	14	240	.0		01 JUL	1115	6.6	238	16.5
06 FEB	1040	8.1	248	.0		26 AUG	1115	2.0	204	18.5
16 MAR	1116	17	209	2.0		15 SEP	1145	1.3	196	21.0
14	1055	14	227	4.5		11	1150	3.0	220	16.5
	393	109104464 DIS-	500 CHERR	Y CREEK NE	EAR PARKER, CO	(LAT 39 31 09	n long 1	04 46 45W) DIS-		
DATE	TIME	CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)		DATE	TIME	CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 07	1240	10	554	14.0		APR 14	1145	28	408	13.0
NOV 01	1318	12	517	12.0		MAY 04	1447	14	461	23.0
DEC 08	1515	20	408	3.5		JUN 01	1403	7.4	487	18.5
JAN 06	1230	10	543	7.0		JUL 26	1545	5.2	653	20.5
FEB 16	1416	25	400	10.0		AUG 15	1358	4.8	305	21.5
MAR 14	1251	19	385	12.0		SEP 11	1350	6.3	706	20.0
(06713000		RY CREEK	BELOW CHEF	RY CREEK LAKE,	. CO (LAT 3	9 39 12N		51 41W)	
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)		DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
NOV 01	1537	28	732	9.0		MAY 03 25	1248	11 30	749 744	16.0
07 JAN	1105	22	742	3.0		JUN	0900 1600	22	744	13.8 17.5
03	1239	22	770	3.5		01 JUL				
FEB 16	1617	35	747	4.5		21 AUG	1100	28	746	23.0
MAR 14	1510	22	755	7.0		11 SEP	1405	.20	728	30.0
31	1640	53	757	7.5		11	1527	2.7	744	21.5

06713300 CHERRY CREEK AT GLENDALE, CO (LAT 39 42 22N LONG 104 56 13W)

	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)
	OCT 06	1020	11	1290	13.0		APR 11	1021	92	798	10.0
	NOV 02	1130	34	395	9.5		MAY 10	1202	23	990	19.1
Ι	DEC 10	1145	28	978	4.0		JUN 07	1053	24	971	20.5
	JAN 10	1510	29	969	5.6		JUL 21	1410	32	914	26.5
F	FEB 11	1056	42	858	3.6		AUG 02	1710	16	1030	23.5
	24 MAR	1455	41	854	9.5		14	1540 1027	8.1 90	1180 592	27.0 19.5
ľ	01	1129	57	823	7.5		SEP				
	14	1042	28	801	8.6		13	1005	14	1110	16.0
		0671	L3500	CHERRY	CREEK AT	DENVER, C	O (LAT 39 44	58N LONG 10	5 00 08W)		
	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)		DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
	OCT 06 DEC	1150	20	1050	16.0		MAY 03 31	1430 1442	30 46	962 873	21.5 23.5
	10	1412	33	1040	5.0		JUL	1355	24	1020	24.5
	JAN 03	1025	33	1240	3.5		27 AUG				
	FEB 15	1040	44	913	6.5		14 SEP	1115	19	969	23.0
N	MAR 15	0940	32	961	6.5		13	1155	18	1020	20.5
I	APR 06	1515	64	810	15.0						
	067142	15	SOUTH PL	ATTE RIVE	R AT 64TH	AVE. COMME	RCE CITY, CO	(LAT 39 48	44N LONG	104 57 2	8W)
	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)
C	OCT	1715	1.46	0.40	17 7		APR	1545	100	024	14.4
N	10V 06	1715	146	848	17.7		10 MAY	1545	100	834	14.4
Ţ	23 JAN	1225	48	901	7.2		04 JUN	1655	23	1080	24.2
	11 19	1420 1436	199 205	899 935	7.3 8.6		19 AUG	1430	96	857	22.0
N	MAR 01	1035	32	919	8.7		30	1334	20	1080	24.0
			- -		/						

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

39				T MOUTH NEAL	COMMERCE CITY, CO (LAT 3				
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC COM- 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 06	1540	44	1080	19.6	APR 27	1655	116	752	19.5
NOV 23	1035	30	1610	5.2	MAY 17	1430	48	906	14.0
JAN 11	1605	15		10.3	JUN 19	1700	17	1460	22.6
FEB 04	0935	16	1830	5.0	AUG 30	1205	49	765	24.0
MAR 01	1105	18	1640	11.7					
21	1555	105	3330	10.2					
067	14800	LEAVE	NWORTH CR	EEK AT MOUTI	NEAR GEORGETOWN, CO (LAT	39 41 1	4n LONG 10	5 41 59W)	
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 06	1145	9.0	100	3.6	JUN 27	1050	38	66	5.4
NOV 17	0900	4.2	126	. 4	JUL 11	0845	26	67	8.0
DEC 28	1305	4.0	138	.5	AUG 24	1200	9.7	116	9.2
APR 13	1110	3.4	143	2.2	SEP 05	1230	10	125	9.0
MAY 02 26	1150 1115	7.6 39	110 63	4.5 3.0					
31 39430810 DATE	1250 05413800 TIME	CLEAR CRE DIS- CHARGE, INST. CUBIC FEET PER	SPE-CIFIC CON-DUCT-ANCE	7.3 GEORGETOWN 1 TEMPER- ATURE WATER	KE NEAR GEORGETOWN, CO (LAT 39 4: TIME	DIS- CHARGE, INST. CUBIC FEET PER	SPE- CIFIC CON- DUCT- ANCE	8W) TEMPER- ATURE WATER
OCT		SECOND (00061)	(US/CM) (00095)	(DEG C) (00010)	JUN		SECOND (00061)	(US/CM) (00095)	(DEG C) (00010)
14 NOV	1415	54	134	7.8	27 JUL	1200	205	84	7.3
17 DEC	1045	26	144	.7	26 AUG	1125	95	113	10.7
28 APR	1130	24	152	1.3	24 SEP	1250	60	142	11.8
10 MAY	0950	30	268	2.3	19	1050	42	152	8.4
02	1310	71	190 EK BELOW	7.8	KE NEAR GEORGETOWN, CO (T.AT 39 4	3 59N LONG	105 41 1	9w)
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				
14 NOV	0925	57	136	6.2	02 JUN	1425	69	210	9.8
17 DEC	1145	33	143	5.4	27 JUL	0850	207	183	9.3
28 FEB	1025	23	161	2.6	26 AUG	1020	96	110	12.5
23	1020								
APR	1030	18	180	2.4	24 SEP	1405	59	141	13.8

06715000 CLEAR CREEK ABOVE WEST FORK CLEAR CREEK NEAR EMPIRE, CO (LAT 39 45 07N LONG 105 39 41W)

06715000		CLEAR CREE	K ABOVE W	WEST FORK C	LEAR CREEK NEA	R EMPIRE, CO	(LAT 39	45 07N LON	G 105 39	41W)
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)		DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 13	1355	50	148	9.4		MAY 02	1110	83	216	8.2
NOV 17	0755	33	161	2.3		JUN 20	0900	283	85	9.0
DEC 28	0855	29	178	.9		JUL 26	0910	96	118	12.8
FEB 23	0845	19	197	1.3		AUG 24	1045	55	148	13.0
APR 07	1105	27	231	3.3		SEP 19	0940	43	168	4.6
07	1100	2,	231	3.3		25	0,710	13	100	1.0
067161	00	WEST FO	RK CLEAR	CREEK ABOV	E MOUTH NEAR E	MPIRE, CO (LA	T 39 45	32N LONG 1	05 39 34W	1)
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 13	1250	41	258	6.4		JUN 08	1115	437	80	7.7
DEC 06	1150	24	133	.0		JUL 25	1050	82	120	8.0
MAR 27	1045	18	433	2.6		AUG 24	1520	42	220	13.8
APR 25	1010	40	373	3.6		SEP 21	1250	41	280	7.3
	067	16500	CLEAR	CREEK NEAR	LAWSON, CO	(LAT 39 45 5	7N LONG	105 37 32W)	
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)
OCT 14	1050	91	202	6.1		MAY 02	1015	157	255	6.0
NOV 15	1020	57	226	1.0		JUN 06	1145	564	83	8.5
JAN 28	1205	28	296	.0		JUL 25	0940	200	90	8.2
FEB 23	1150	35	201	2.0		AUG 21	1405	103	183	13.6
APR 04	1125	37	327	3.0		SEP 19	1155	69	223	7.7
01	1123	3,	32,	3.0		17	1133	0,5	223	,.,
06717400	C	HICAGO CRE	EK BELOW	DEVILS CAN	YON NEAR IDAHC	SPRINGS, CO	(LAT 39	42 58N LO	NG 105 34	15W)
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)		DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT	1455	8.8	63	5.9		JUN 08	1235	25	53	10.0
13 NOV 15	1210	1.2	69			23 JUL	0935	15	57	9.0
DEC 06	1035	1.2	68	.8		11 AUG	1305	13	64	13.1
APR 04	1225		84	2.0		24 SEP	0915	6.6	82	3.5
04 MAY 04	0925	7.1	65	3.7		21	1400	11	75	8.2
09	1015	40	56	2.7						

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS 433

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

06718300		CLEAR CRE	EK ABOVE	JOHNSON	GULCH	NEAR	IDAHO	SPRINGS,	CO (LAT 39	44 47N LON	G 105 26	(W80
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010))			DAT	Έ	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)
OCT								MAY					
14 NOV	1205	127	218	7.6	5			23 JUN		1315	418	130	10.0
17	1300	78	248	3.0)			06		1350	789	83	10.9
DEC 06	1250	72	282	.0)			JUL 25		0815	228	110	8.5
MAR 14	1430	55	349	7.2	2			AUG 21		1035	155	184	13.0
APR 25	1215	115	307	6.7	7			SEP 19		0845	103	217	5.4
067185	50	NORTH	CLEAR CRE	EEK ABOVE	E MOUTH	H NEAF	R BLACI	KHAWK, CO	(LAT	39 44	56N LONG 1	05 23 57W	1)
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010))			DAT	Έ	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 05	1015	13	417	4.9	,			APR 25		1305	22	253	8.7
NOV								MAY					
15 DEC	1310	7.5	484	4.8				09 JUN		1250	68	320	8.1
06 JAN	1355	7.4	524	.0)			07 JUL		1145	44	119	12.0
28 FEB	1400	3.3	760	.0)			05 AUG		1145	11	266	14.8
22	1400	6.6	559	3.3	3			17		1105	4.1	535	14.0
MAR 28	1040	9.5	448	4.0)			05		1035	4.3	570	13.5
	06'	719505	CLEAF	R CREEK A	AT GOLI	DEN,	CO	(LAT 39 4	5 11N	I LONG 1	.05 14 05W)		
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010))			DAT	Έ	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 07	1325	130	235	8.8	3			APR 24		1100	166	284	7.8
NOV 16	1250	94	247	2.7	7			MAY 23		0945	434	134	10.9
DEC 17	1455	89	313	.0				JUN 05		1110	786	200	5.0
JAN								JUL					
12 FEB	0945	89	304	.0				13 21		0915 1145	282 263	120 134	14.6 15.9
03 23	0950 1320	86 57	<332 347	.0 3.6				AUG 22		0915	139	212	9.1
MAR 28	0935	74	383	6.0)			SEP 08		1100	137	231	3.6

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

06720820 BIG DRY CREEK AT WESTMINSTER, CO (LAT 39 54 20N LONG 105 02 04W)

		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	TIME	PER	ANCE	WATER
		SECOND	(US/CM)	(DEG C)			SECOND	(US/CM)	(DEG C)
		(00061)	(00095)	(00010)			(00061)	(00095)	(00010)
OCT					APR				
04	1120	13	754	10.0	12	1450	1.8	1810	16.2
NOV					MAY				
10	1505	2.2	1730	10.4	26	1200	41	377	14.6
DEC					JUN				
01	1022	1.7	1700	4.5	19	1314	63	411	17.6
JAN					JUL				
07	1010	2.4	2490	.6	19	1007	26	442	18.0
FEB					AUG				
14	0830	1.6	1930	2.1	25	1220	24	415	20.6
MAR					SEP				
08	1400	2.1	1970	12.6	29	1216	3.2	1340	16.3

06720990 BIG DRY CREEK AT MOUTH NEAR FORT LUPTON, CO (LAT 40 04 09N LONG 104 49 52W)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT					APR				
14	1445	43	1220	15.5	12	0955	11	1220	11.0
NOV					MAY				
10	0845	27	1550	7.0	10	0935	34	893	14.0
DEC					JUL				
08	1120	15	1610	3.0	12	1310	30	911	24.5
JAN					AUG				
12	1305	25	1490	5.5	09	1010	13	1230	24.5
FEB					SEP				
09	1250	23	1360	4.0	20	1001	9.8	1090	15.0
MAR									
08	1315	27	1220	11.5					

06725450 ST. VRAIN CREEK BELOW LONGMONT, CO (LAT 40 09 29N LONG 105 00 53W)

		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	TIME	PER	ANCE	WATER
		SECOND	(US/CM)	(DEG C)			SECOND	(US/CM)	(DEG C)
		(00061)	(00095)	(00010)			(00061)	(00095)	(00010)
OCT					MAR				
28	0950	108	905	8.5	08	1120	41	1220	9.0
NOV					MAY				
10	1230	62	1400	9.5	10	1235	106	732	17.0
DEC					JUN				
08	1020	59	1450	4.0	07	1015	166	702	18.0
JAN					AUG				
12	0900	60	1220	3.0	09	1245	174	1280	24.0
FEB					SEP				
09	1135	57	1220	4.0	20	1240	119	830	16.0

067	30200	BOULDER	CREEK AT	NORTH 75TH	STREET	NEAR	BOULDER, C	CO (LA	г 40 03	06N LONG	105 10 4	2W)
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)			DATI	3	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 12	1330	61	722	19.4			MAY 03 JUN		1115	117	704	16.2
16	1055	51	633	17.2			21 JUL		1020	197	436	17.3
17	1305	44	750	.0			13		1355	244	383	21.8
JAN 12	1150	55	612	12.5			AUG 22		1130	156	465	23.0
MAR 09	1010	45	757	14.7			SEP 25		1245	82	604	14.1
APR 03	1030	64	652	13.4								
	06730	400	COAL CF	REEK NEAR LO	DUISVILI	ιE, CO) (LAT 39 5	58 34N	LONG 1	.05 07 00w)	
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)			DATE	3	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 04	1255	4.2	590	13.0			MAY 03		0935	2.8	682	14.0
16 DEC	0935	2.1	975	10.1			JUN 01 21		1245	7.8	335	17.0 21.0
17	1120	3.3	730	6.3			JUL		1215	.41	704	
JAN 12	1255	2.6	794	5.5			24 AUG		1130	2.1	825	23.0
FEB 03	1140	2.2	945	5.9			22 29		1340 0945	.33 1.2	835 880	22.0
MAR 09	1220	1.8	1070	7.0			SEP 25		1405	3.3	780	13.2
APR 03	1150	5.4	668	6.4								
	06730500	BOUL DIS-	DER CREEK	C AT MOUTH,	NEAR LC	ONGMON'	., CO (I	LAT 40	480 00	I LONG 105 DIS-	00 52W)	
DATE	TIME	CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)			DATI	3	TIME	CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 28	1045	75	705	9.3			APR 12		1300	37	830	15.0
NOV 10	1130	66	501	8.5			MAY 10		1120	47	515	16.5
DEC 08	0917	78	519	3.0			JUN 07		0910	155	387	17.5
JAN 12	1150	61	693	5.0			JUL 12		1000	17	552	22.0
FEB 09	1010	64	654	3.5			AUG 09		1120		896	23.5
MAR 08	1020	64	656	9.0			SEP 20		1058	148	456	15.0

06746095 JOE WRIGHT CREEK ABOVE JOE WRIGHT RESERVOIR, CO (LAT 40 32 24N LONG 105 52 56W)

	0071003	, 5	OOL WILL	oni cidalic	IDOVE COL	WICIOIII ICEDERIVOTRI, CO (EE	1 10 52	Z IIV LONG	103 32 30	,
	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	1	1407	3.7	59	7.5	JUN 09	0945	113	31	3.0
NOV		1107	3.7	3,5	7.3	JUL	0,15	113	31	3.0
	3	1243	5.8	68	.0	24 AUG	1353	12	44	14.5
	9	0915	.78		.0	23 SEP	1025	7.5	50	8.0
	5	0913	.66	78	.0	15	1208	5.0	54	9.5
	1	1602	11	46	.0					
	0674611	-0	DIS- CHARGE, INST. CUBIC	SPE- CIFIC CON-	TEMPER-	WRIGHT RESERVOIR, CO (LA	т 40 33	DIS- CHARGE, INST. CUBIC	SPE- CIFIC CON-	TEMPER-
	0674611 DATE	.0 TIME	DIS- CHARGE, INST.	SPE- CIFIC		WRIGHT RESERVOIR, CO (LA	T 40 33	DIS- CHARGE, INST.	SPE- CIFIC	
	DATE		DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE MAY 12		DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
05 NOV 03	DATE 5	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE MAY 12 JUN 08	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
05 NOV 03 JAN 05	DATE 5 5	TIME 1055	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE MAY 12 JUN 08 JUL 25	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
05 NOV 03 JAN 05 FEB	DATE 5 3 5	TIME 1055 1517	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	DATE MAY	TIME 1010 1500	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
05 NOV 03 JAN 05 FEB 29 APR	DATE 5 3 5	TIME 1055 1517 1248	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 2.3 2.3	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 40 42	TEMPER- ATURE WATER (DEG C) (00010) 5.0 2.5 1.0	MAY 12 JUN 08 JUL 25 AUG	TIME 1010 1500 1112	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 5.9 90	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 47 37	TEMPER-ATURE WATER (DEG C) (00010) 1.5 5.0 7.0

06751150 NORTH FORK CACHE LA POUDRE RIVER BELOW HALLIGAN RESERVOIR NEAR VIRGINIA DALE, CO (LAT 40 52 42N LONG 105 20 15W

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
NOV					JUN				
09	1340	5.4	174	16.8	06	1600	152	90	16.0
DEC					JUL				
07	1504	5.6	170	3.0	11	1510	53	112	20.0
FEB					AUG				
08	1417	39	161	3.5	08	1550	59	85	19.0
APR					SEP				
11	1410	79	152	7.0	19	1535	8.5	138	15.5
MAY									
09	1405	133	120	11.5					

06751490 North fork Cache La Poudre R. at Livermore, CO (Lat 40 47 15N Long 105 15 06W)

		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	TIME	PER	ANCE	WATER
		SECOND	(US/CM)	(DEG C)			SECOND	(US/CM)	(DEG C)
		(00061)	(00095)	(00010)			(00061)	(00095)	(00010)
NOV					MAY				
09	1200	17	336	7.5	09	1220	16	319	13.0
DEC					JUN				
07	1245	17	333	2.0	06	1400	12	339	22.0
JAN					JUL				
11	1400	45	226	.0	11	1330	7.2	371	22.5
FEB					AUG				
08	1255	51	252	3.0	08	1400	6.0	412	22.5
MAR					SEP				
07	1300	45	207	6.5	19	1356	3.4	452	15.7
APR									
11	1225	14	296	11.5					

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

07079195 EAST FORK ARKANSAS RIVER AT HWY 91 NEAR LEADVILLE. CO (LAT 39 17 09N LONG 106 16 45W)

07079195		EAST FORK	ARKANSAS	RIVER AT	HWY 91 NEAR	LEADVILLE, CO	(LAT 39 1	L7 09N LON	G 106 16	45W)
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)		DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 06	1245	20	177	5.5		APR 05	1530	6.8	234	5.0
NOV						MAY				
03 DEC	1555	12	190	3.5		03 JUN	0900	38	173	2.2
01 JAN	1630	9.2	191	.3		07 JUL	1700	152	101	12.2
05	1130	7.9	199	.0		05	1720	46	134	14.6
FEB 02	1015	8.5	206	.0		AUG 02	1430	27	163	15.0
MAR 01	1550	7.4	200	.5		SEP 06	1800	26	162	10.0
07079300 DATE	E TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	HWY 24, NEA	AR LEADVILLE, CO	(LAT 39	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT		,	, ,			MAY			, ,	, ,
06 NOV	1015	25	260	5.0		03 30	1000 1445	44 316	222 99	4.6 9.6
03	1615	17	298	4.5		JUN				
DEC 02	0940	13	315	1.0		07 19	1845 1720	173 92	118 147	11.0 9.7
JAN 05	1315	11	352	1.3		JUL 05	1825	54	180	14.9
FEB 02	1110	12	367	2.0		AUG 02	1530	29	201	17.2
MAR 01	1635	9.8	354	2.7		SEP 06	1900	28	225	10.2
APR 05	1650	14	364	8.0						
	07081				R LEADVILLE,	. CO (LAT 39 15	26N LONG	106 20 35	W)	
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 06 NOV	0820	34	214	4.0		MAY 02 30	1850 1230	125 759	113 65	11.1 8.5
04 DEC	0755	15	228	.5		JUN 08	0840	275	82	7.7
02	1120	25	249	1.1		JUL 05	2005	80	134	
JAN 05	1435	15	266	.5		AUG				15.0
FEB 02	1225	20	276	.5		02 SEP	1715	42	181	16.9
MAR 02	0825	16	257	.3		06	1600	41	207	12.9
APR 06	1040	19	238	4.1						

	MISCEL	LANEOUS ST	'ATION ANA	LYSES, WA	ER YEAR OCTOBER 19	99 TO SEPT	EMBER 20	000Conti	nued	
	070	83000	HALFMO	ON CREEK	EAR MALTA, CO (LAT	39 10 20N	LONG 1	06 23 19W)		
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)
OCT 05	1545	23	86	8.0	JUN 0	8	1030	131	45	5.4
NOV 03	1400	15	88	1.0	JUL		1600	48	62	14.4
DEC 01	1510	8.1	93	.0		4	1420	35	70	13.7
MAR 01	1350	5.1	96	.1	0 SEP	3	0740	22	78	8.0
MAY 02 30	1630 0800	25 168	73 38	11.8 2.0	0	6	1400	24	87	13.5
	0708	7050	ARKANSA	S RIVER B	CLOW GRANITE, CO (L	AT 38 59 4	2N LONG	106 13 11	W)	
		DIS-			, ,			DIS-		
DATE	TIME	CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)		DATE	TIME	CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 05	1310	281	147	9.0	JUN 0	8	1130	2180	69	10.8
APR 06	1345	163	168	7.7		9	2020	1240	76	11.7
MAY 02	1430	437	121	10.8		6	1120	915	88	13.9
19 25	1530 1135	1420 2440	87 87	10.0 10.0		4	0820	671	87	14.0
31	1320	3260	77	12.0		7	1000	201	160	11.0
070962	50	FOURMIL	E CREEK B	ELOW CRIP	LE CREEK NEAR VICT	OR, CO (LA	т 38 39	52N LONG	105 13 37	W)
DATE	TIME	CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)		DATE	TIME	CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 07	1120	24	338	11.6	JUN 0	7	1220	29	320	19.1
JAN 07	1250	13	400	.5	JUL		1040	13	437	18.5
MAR 14	1300		232		SEP		1000		447	
MAY 08	1025	84	288	8.5						
07099050	BEA	VER CREEK	ABOVE UPP	ER BEAVER	CEMETERY NEAR PENR	OSE, CO (L	AT 38 33	3 42N LONG	105 01 1	7W)
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	1335	34	84	11 5	JUN		1330	33	63	1Ω /
06 NOV 17				11.5	JUL					18.4
17 FEB	1255	11	103	8.5	AUG		0910	26	79	14.0
28 APR	1050	8.5	129	4.5	SEP		1210	18	83	19.5
04 17	0920 0925	16 65	102 87	.5 4.5	U'	7	1010	17	90	14.5
MAY 11	0940	132	81	9.5						

07099060		BEAVER	CREEK AB	OVE HIGHWAY	115 NEAR 1	PENROSE,	CO (LAT	38 29 21	IN LONG 10	4 59 49W)	
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)			DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 06	1105	5.3	115	9.0		MAY 02.		1355	20	104	9.5
NOV 17	1020	.47	173	6.0		11. 31.		1220 1310	86 51	90 656	12.5 16.5
APR 04 17	1320 1150	18 26	360 102	6.0 7.5		JUN 28.		1110	12	93	16.0
	0709	99215	TURKEY	CREEK NEAR	FOUNTAIN,	CO (LAT	38 36 42	N LONG	LO4 53 39W)	
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)			DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 06	0915	1.3	342	10.6		APR 05.		1335	1.3	228	12.0
MAR 24	0950	.79	262	6.5		SEP 01.		0930	.26	360	15.5
07099230 DATE	TUR TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OIR NEAR S		Y, CO (L# DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 07	1330	3.1	764	17.0		MAY 03.		1305	1.9	952	19.9
NOV 05	1125	3.3	820	11.0		JUN 12.		1255	.72	949	19.9
JAN 05	1235	2.7	897	7.2		30.		1055	. 48	1010	17.0
MAR 27	1050	2.2	950	11.5							
	07099	235	TURKEY	CREEK NEAR	STONE CITY	, CO (LAT	г 38 26 2	2N LONG	104 49 34	W)	
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)			DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
DEC 06	1450	11	703	5.5				1120	2.2	1010	7.0
10 JAN 05	1615 1040	14 5.8	724 866	3.5 2.5		APR 06.		1350	2.7	1040	13.0
03	1040	5.6	800	2.5							
	0710370)3	CAMP CREE	K AT GARDEN	OF THE GOI	DS, CO (I	LAT 38 52	2 37N LOI	NG 104 52	20W)	
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)			DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
MAR 16	1025	.09	861	2.0							

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

07103785 DEADMANS OR ABY DEADMANS LAKE AT USAF ACADEMY. CO (LAT 39 01 27N LONG 104 54 03W)

(7103785	DEADMANS	CR ABV DE	EADMANS LAK	E AT USAF ACAI	DEMY, CO (LAT 3	9 01 271	LONG 104	54 03W)	
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)
MAR 28	1525	.41	93	5.5		JUL 11	1355	.05	153	17.0
MAY 01	1405	.90	74	7.5		AUG 29	1205	.18	94	15.6
JUN 06	1335	.23	102	13.8						
07103	790 MONUME	NT CR BELO	W SEWAGE	TREATMENT	PLANT AT USAF	ACADEMY, CO (I	AT 38 58	53N LONG	104 49 5	OW)
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)		DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
MAR 16	1205	22	291	5.0		JUN 06	1605	12	285	21.9
28 APR	1500	28	272	11.0		JUL 11	1255	7.2	318	24.0
04 MAY	1455	31	280	15.5		AUG 03	1330	5.4	331	26.2
24	1120	22	226	16.0		29	1235	21	326	21.9
07:	103797	WEST M	ONUMENT C	CREEK BELOW	I RAMPART RESE	RVOIR, CO (LAT	38 58 30	n LONG 10	4 57 18W)	
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 05	0900	6.2	67	9.0		APR 05	1550	4.6	81	6.0
NOV 02	1130	3.4	74	7.0		MAY 23	1330	3.8	80	10.0
DEC 13	1200	6.2	68	3.5		JUN 27	0900	5.1	94	7.2
JAN 12	0830	6.3	69	2.5		JUL 18	1200	3.7	71	9.0
FEB 09	0900	7.0	71	2.5		AUG 09	1100	4.2	70	8.9
MAR 17	0830	4.1	75	2.7		SEP 19	1040	3.7	70	13.1
	0710380		UMENT CRE	EK AT AIR	FORCE ACADEMY	, CO (LAT 38 58	14n Lon		08W)	
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)		DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 06	0840	1.3	97	6.0		APR 05	1055	7.9	81	4.5
NOV 01	1405	1.2	97	3.5		MAY 02	1310	2.5	79	8.0
DEC 14	1005	1.1	94	.5		JUN 07	1255	.90	94	12.6
JAN 12	1550	.83	96	1.0		JUL 11	1125	.60	97	14.5
FEB 09	1205	.98	94	2.0		AUG 22	1330	.64	95	14.9
MAR 16	1420	1.0	93	.5		SEP 15	1410	2.8	92	14.1

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

 $07103930 \ \mathtt{WEST} \ \mathtt{MONUMENT} \ \mathtt{CR} \ \mathtt{AT} \ \mathtt{MOUTH} \ \mathtt{AT} \ \mathtt{USAF} \ \mathtt{ACADEMY}, \ \mathtt{CO} \ (\mathtt{LAT} \ \mathtt{38} \ \mathtt{57} \ \mathtt{32N} \ \mathtt{LONG} \ \mathtt{104} \ \mathtt{50} \ \mathtt{08W})$

	0710393	0 WEST MON	UMENT CR	AT MOUTH AT	USAF ACADEMY	, CO (LAT 38	57 32N LO	ONG 104 50	(W80	
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)		DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
MAR 28	1400	1.5	195	9.5		JUN 06	1710	1.5	177	17.9
APR 05	1140	10	126	9.5		AUG 22	1405	.71	218	21.2
MAY						SEP				18.9
09	1235	4.2	132	12.4		15	1535	.37	213	18.9
	07103940	MONUMENT	CR AT SOU	TH BOUNDARY	USAF ACADEMY	, CO (LAT 38	57 15N LO	ONG 104 50	00W)	
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)		DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
MAR 28	1120	31	269	9.0		JUL 10	1550	9.0	319	24.0
APR 04	1610	39	270	16.5		25 AUG	0910	7.6	353	16.7
MAY 24	1240	27	226	15.2		03	1410 1020	5.6 8.3	315 320	23.9 18.3
JUN						29	1335	23	334	22.6
07	1420	13	269	20.5						
	07:	103960 KET	TLE CREEK	ABOVE USAF	ACADEMY, CO	(LAT 38 58 34	N LONG 10	04 47 55W)		
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER	SPE- CIFIC CON- DUCT- ANCE	TEMPER- ATURE WATER		DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER	SPE- CIFIC CON- DUCT- ANCE	TEMPER- ATURE WATER
2.112	11111	SECOND (00061)	(US/CM) (00095)	(DEG C) (00010)		21112	111111	SECOND (00061)	(US/CM) (00095)	(DEG C) (00010)
MAR 24	1105	1.7	393	11.0		JUL 11	1235	. 34	E22	25.0
APR						21	0925	.57	523 512	18.0
04 MAY	0820	1.1	345	1.5		AUG 02	1015	.30	576	20.5
22 JUN	1105	1.1	411	19.5		16 21	1355 2125	.09 3.2	621 349	25.5 16.0
14 28	0910 1730	.54 .77	489 456	13.0 17.8		25 SEP	1005	.32	553	18.6
20	1730	• • • •	130	17.0		06 28	1240 1005	.28	552 536	19.9 9.0
		05104000				T 20 FF 0427 T	0277 104	40.05**		
	,		ONUMENT C	KEEK AI PIK	EVIEW, CO (LA	T 38 55 04N L	ONG 104 4			
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)		DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
0.07		(00061)	(00095)	(00010)				(00061)	(00095)	(00010)
OCT 06	1350	37	429	15.5		MAY 22 31	0950	41	365 383	14.5
NOV 23	1310	36	462	3.5		JUN	1145	38	383	22.0
DEC 15	1455	35	525	.5		14 JUL	0750	23	493	11.0
JAN 05	1035	30	515	.5		12 AUG	1305	24	472	27.0
FEB 02	1015	27	524	1.0		02 07	1210 1505	18 19	527 528	26.0 25.0
MAR 15	1045	35	420	5.5		23 30	1225 1205	25 32	501 496	24.0 22.5
APR 26	1230	70	264	14.5		SEP 21	1230	18	574	17.5
20	1230	, ,	204	11.5			1230	10	3/4	17.5

18...

1255

4.1

77

7.5

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued 07105000 BEAR CREEK NEAR COLORADO SPRINGS, CO (LAT 38 49 21N LONG 104 53 17W)

DIS-CHARGE, DIS-CHARGE, SPE-SPE-CIFIC CON-INST. CUBIC INST. CUBIC CIFIC CON-TEMPER-TEMPER-FEET PER DUCT-ANCE ATURE WATER FEET PER DUCT-ANCE ATURE WATER DATE DATE TIME TIME SECOND (00061) SECOND (00061) (US/CM) (00095) (DEG C) (00010) (US/CM) (00095) (DEG C) (00010) OCT 04... MAY 31...
JUL
06...
AUG
02... 1510 2.9 91 8.0 1440 2.2 84 14.0 NOV 02... 89 1205 2.7 2.5 1215 1.8 89 14.1 JAN 1340 1.2 95 1355 1.9 87 1.8 09... FEB 1555 94 96 15.5 14.2 08... 1340 2.2 86 2.5 1320 MAR SEP .5 17... 1050 92 1325 1.5 93 9.0 APR

07105490 CHEYENNE CREEK AT EVANS AVE AT COLORADO SPRINGS, CO (LAT 38 47 26N LONG 104 51 49W)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT					JUN				
05	1520	3.3	133	10.5	01	1020	1.1	114	11.5
NOV					JUL				
02	1025	.52	162	4.0	06	1040	.98	119	14.5
JAN					AUG				
14	1255	1.3	144	2.5	02	1510	.57	115	18.5
FEB					09	1410	.56	133	18.5
08	1225	.46	175	4.5	30	1340	3.6	109	15.6
MAR					SEP				
16	1635	1.3	145	1.0	26	1125	.66	124	10.5
APR									
18	1140	8.8	92	6.5					

07105900 JIMMY CAMP CREEK AT FOUNTAIN, CO (LAT 38 41 04N LONG 104 41 17W)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C) (00010)
OCT					MAY				
13	1615	2.1	2970	17.5	05	0955	2.8	2850	17.0
NOV					31	1235	1.6	2980	27.0
10	1325	2.2	2920	16.5	JUN				
24	0945	2.1	2930	3.5	27	1420	5.6	1840	19.0
DEC					JUL				
15	1140	2.4	2740	.0	17	1310	1.5	2980	26.0
JAN					AUG				
05	1240	1.6	2890	10.0	01	0920	1.6	2900	16.5
FEB					24	1335	3.0	2010	26.5
07	1435	1.7	2870	14.5	29	1135	17	826	19.5
MAR					SEP				
08	1440	2.0	2800	11.0	06	1435	1.6	3010	26.5
APR					26	0955	1.8	2920	11.0
05	1410	1.9	2950	26.0					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS 443

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued
07105945 ROCK CREEK ABOVE FORT CARSON RESERVATION, CO (LAT 38 42 26N LONG 104 50 47W)

	07105945	ROCK	CREEK AB	SOVE FORT	CARSON RESERVATION, CO (LAT	38 42 26N	LONG 104	50 47W)	
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 05	1700	.85	167	10.0	MAY 09	1050	2.5	115	8.5
08 NOV	0920	2.0	149	8.0	JUN 06	1110	.58	152	14.5
03 JAN	1115	.79	167	5.0	JUL 07	1025	.29	173	16.8
14 FEB	1150	.58	200	2.0	AUG 08	1325	.14	190	19.5
08 MAR	1025	.65	165	1.0	SEP 01	1250	.50	202	17.5
09 APR	0955	.89	162	1.5	01	1230	.50	202	17.5
05	0925	4.2	124	3.0					
	071	107900	GREEN	HORN CREE	K NEAR RYE, CO (LAT 37 55 14	N LONG 10	4 57 21W)		
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
DEC 17	1205	2.5	90	1.8	JUN 28	1212	4.5	75	10.5
FEB 03	1135	2.9	87	.0	JUL 10	1330	3.7	86	16.5
MAR 01	1420	1.9	78	2.7	14 AUG	0955	3.7	79	14.0
MAY 11	0945	22	50	5.9	18	1050	2.9	83	13.4
DATE	071 TIME	DIS- CHARGE, INST. CUBIC FEET PER	GRANE SPE- CIFIC CON- DUCT- ANCE	TEMPER- ATURE WATER	NEAR RYE, CO (LAT 37 54 47) DATE	N LONG 104 TIME	DIS- CHARGE, INST. CUBIC FEET PER	SPE- CIFIC CON- DUCT- ANCE	TEMPER- ATURE WATER
DATE		DIS- CHARGE, INST. CUBIC FEET	GRANE SPE- CIFIC CON- DUCT-	ROS CREEK TEMPER- ATURE			DIS- CHARGE, INST. CUBIC FEET	CIFIC CON- DUCT-	ATURE
DEC 17		DIS- CHARGE, INST. CUBIC FEET PER SECOND	GRANE SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE MAY 11		DIS- CHARGE, INST. CUBIC FEET PER SECOND	CIFIC CON- DUCT- ANCE (US/CM)	ATURE WATER (DEG C)
DEC 17 FEB 03	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	GRANE SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE MAY 11 JUN 28	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	CIFIC CON- DUCT- ANCE (US/CM) (00095)	ATURE WATER (DEG C) (00010)
DEC 17 FEB	TIME 1300	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	GRANE SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE MAY 11 JUN	TIME 1105	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	CIFIC CON- DUCT- ANCE (US/CM) (00095)	ATURE WATER (DEG C) (00010)
DEC 17 FEB 03 MAR	TIME 1300 1225	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) .51 .47	GRANE SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 216 200 227	TEMPER-ATURE WATER (DEG C) (00010) 2.4 .2 5.1	DATE MAY 11 JUN 28 JUL	TIME 1105 1330 1125	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 6.2 .64	CIFIC CON- DUCT- ANCE (US/CM) (00095) 80 155	ATURE WATER (DEG C) (00010) 9.3
DEC 17 FEB 03 MAR	TIME 1300 1225 1520 071089	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) .51 .47	GRANE SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 216 200 227	TEMPER-ATURE WATER (DEG C) (00010) 2.4 .2 5.1	DATE MAY 11 JUN 28 JUL 14	TIME 1105 1330 1125	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 6.2 .64	CIFIC CON- DUCT- ANCE (US/CM) (00095) 80 155	ATURE WATER (DEG C) (00010) 9.3
DEC 17 FEB 03 MAR 01	TIME 1300 1225 1520 071089	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) .51 .47 .42 DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	GRANE SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 216 200 227 ST. CHAR SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010) 2.4 .2 5.1 LES RIVER TEMPERATURE WATER (DEG C) (00010)	DATE MAY 11 JUN 28 JUL 14 AT VINELAND, CO (LAT 38 14 DATE APR	TIME 1105 1330 1125 44N LONG	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 6.2 .64 .26 104 29 09 DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	CIFIC CON-DUCT-ANCE (US/CM) (00095) 80 155 159 W) SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	ATURE WATER (DEG C) (00010) 9.3 12.7 17.5 TEMPER- ATURE WATER (DEG C) (00010)
DEC 17 FEB 03 MAR 01 DATE	TIME 1300 1225 1520 071089 TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) .51 .47 .42 DOO DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	GRANE SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 216 200 227 ST. CHAR SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010) 2.4 2.5.1 LES RIVER TEMPERATURE WATER (DEG C) (00010) 12.8	DATE MAY 11 JUN 28 JUL 14 AT VINELAND, CO (LAT 38 14 DATE APR 05 MAY	TIME 1105 1330 1125 44N LONG	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 6.2 .64 .26 104 29 09 DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	CIFIC CON-DUCT-ANCE (US/CM) (00095) 80 155 159 W) SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	ATURE WATER (DEG C) (00010) 9.3 12.7 17.5 TEMPER-ATURE (DEG C) (00010) 8.8
DEC 17 FEB 03 MAR 01 DATE OCT 06 NOV 04 DEC	TIME 1300 1225 1520 071089 TIME 1045 1505	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) .51 .47 .42 DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) 20 43	GRANE SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 216 200 227 ST. CHAR SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 2180 1330	TEMPERATURE WATER (DEG C) (00010) 2.4 2.5.1 LLES RIVER TEMPERATURE WATER (DEG C) (00010) 12.8 14.7	DATE MAY 11 JUN 28 JUL 14 AT VINELAND, CO (LAT 38 14 DATE APR 05 MAY 04 JUN	TIME 1105 1330 1125 44N LONG TIME 1005 1055	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 6.2 .64 .26 104 29 09 DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 70	CIFIC CON-DUCT-ANCE (US/CM) (00095) 80 155 159 W) SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) 989 599	ATURE WATER (DEG C) (00010) 9.3 12.7 17.5 TEMPER-ATURE WATER (DEG C) (00010) 8.8 16.0
DEC 17 FEB 03 MAR 01 DATE	TIME 1300 1225 1520 071089 TIME 1045 1505 1530	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) .51 .47 .42 .42 .000 DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	GRANE SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 216 200 227 ST. CHAR SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 2180 1330 2320	TEMPERATURE WATER (DEG C) (00010) 2.4 2.5.1 LLES RIVER TEMPERATURE WATER (DEG C) (00010) 12.8 14.7 7.6	DATE MAY 11 JUN 28 JUL 14 AT VINELAND, CO (LAT 38 14 DATE APR 05 MAY 04 JUN 01 JUL	TIME 1105 1330 1125 44N LONG TIME 1005 1055 1410	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 6.2 .64 .26 104 29 09 DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 70 131 22	CIFIC CON-DUCT-ANCE (US/CM) (00095) 80 155 159 W) SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) 989 599 1560	TEMPER-ATURE WATER (DEG C) (00010) 9.3 12.7 17.5 TEMPER-ATURE WATER (DEG C) (00010) 8.8 16.0 23.5
DEC 17 FEB 03 MAR 01 DATE OCT 06 NOV 04 DEC 07 JAN 05 FEB	TIME 1300 1225 1520 071089 TIME 1045 1505 1530 1520	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) .51 .47 .42 000 DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 20 43 17 13	GRANE SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 216 200 227 ST. CHAR SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 2180 1330 2320 2360	TEMPERATURE WATER (DEG C) (00010) 2.4 2.5.1 LLES RIVER TEMPERATURE WATER (DEG C) (00010) 12.8 14.7 7.6 6.8	DATE MAY 11 JUN 28 JUL 14 AT VINELAND, CO (LAT 38 14 DATE APR 05 MAY 04 JUN 01 JUL 06 AUG	TIME 1105 1330 1125 44N LONG TIME 1005 1055 1410 1125	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 6.2 .64 .26 104 29 09' DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 70 131 22 11	CIFIC CON-DUCT-ANCE (US/CM) (00095) 80 155 159 W) SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) 989 599 1560 2200	ATURE WATER (DEG C) (00010) 9.3 12.7 17.5 TEMPER-ATURE (DEG C) (00010) 8.8 16.0 23.5 24.8
DEC 17 FEB 03 MAR 01 DATE OCT 06 NOV 04 DEC 07 JAN 05	TIME 1300 1225 1520 071089 TIME 1045 1505 1530	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) .51 .47 .42 .42 .000 DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	GRANE SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 216 200 227 ST. CHAR SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) 2180 1330 2320	TEMPERATURE WATER (DEG C) (00010) 2.4 2.5.1 LLES RIVER TEMPERATURE WATER (DEG C) (00010) 12.8 14.7 7.6	DATE MAY 11 JUN 28 JUL 14 AT VINELAND, CO (LAT 38 14 DATE APR 05 MAY 04 JUN 01 JUL 106	TIME 1105 1330 1125 44N LONG TIME 1005 1055 1410	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 6.2 .64 .26 104 29 09 DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 70 131 22	CIFIC CON-DUCT-ANCE (US/CM) (00095) 80 155 159 W) SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) 989 599 1560	TEMPER-ATURE WATER (DEG C) (00010) 9.3 12.7 17.5 TEMPER-ATURE WATER (DEG C) (00010) 8.8 16.0 23.5

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued 07116500 HUERFANO RIVER NEAR BOONE. CO (LAT 38 13 30N LONG 104 15 37W)

	0	7116500 н	UERFANO R	IVER NEAR	BOONE, CO (LA	T 38 13 30N L	ONG 104	L5 37W)		
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)		DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT						APR				
05 25 NOV	1400 1720	25 31	1570 2020	20.5 16.0		05 24 24	1200 1005 1745	59 312 439	1580 1590 1610	14.0 12.1 20.1
04 DEC	1140	32	1960	11.0		MAY 03 31	1445	100	1640	20.1
07 JAN 05	1325 1205	35 20	2550 2940	4.7 2.8		JUN 06	1055 0900	9.0 7.7	3820 3960	19.5 17.3
FEB						JUL				
02 MAR	1405	24	2830	9.5		06 AUG	0715	1.7	4940	17.0
01 13	0945 1815	9.0 9.2	4020 3880	6.5 12.2		02	0815	.88	4910	18.0
DATE	0711 TIME	9500 DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	APISHA SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	NEAR FOWLER, CO	DATE	8N LONG :	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
05	1130	20	1690	13.5		APR 04	1040	35	1580	7.3
NOV 09	1425	20	1860	12.8		MAY 03	1300	14	1930	21.0
DEC 07	1140	6.2	2870	8.6		JUN 01	1140	16	1400	16.7
JAN 05	0940	7.2	2600	4.6		JUL 06	0920	9.6	1860	20.0
FEB 03	1005	6.4	2450	4.5		AUG 02 SEP	1035	6.0	2410	18.8
MAR 01	1200	4.6	2950	10.5		07	1335	16	1560	23.8
	0712150	0	TIMPAS CR	EEK AT MC	UTH NEAR SWINK,	CO (LAT 38 0	0 11N LOI	NG 103 39	20W)	
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)		DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 13	1240	115	1820	15.0		APR 04	1620	55	1910	15.5
NOV 09	1255	100	1840	11.7		MAY 08	1045	59	1870	15.8
30 DEC	1625	29	3170	11.0		JUN 02	1000	50	1900	16.0
14 JAN	1345	24	3180	6.3		JUL 05	1250	47	2210	23.5
11 FEB	1530	18	3220	8.8		AUG 02	1335	48	2100	22.7
03 MAR	1235	17	3160	9.8		SEP 12	1320	67	1900	20.5
03	1235	135	1550	8.5		±4	1320	07	1900	20.5

445 SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

> MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued 07124200 PURGATOIRE RIVER AT MADRID, CO (LAT 37 07 46N LONG 104 38 20W)

	0712	24200	PURGAT	OIRE RIVER	R AT MADI	RID, C	O (LAT	37 07 4	6N LONG 1	LO4 38 20W)	
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)				DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 04	1440	48	523	17.2			MAY 04		1550	99	364	21.6
NOV 05	0830	38	554	2.6			JUN 13		1020	65	392	17.0
JAN							JUL			42		21.2
28 MAR	1500	28	659	1.0			AUG		1540		437	
13	1450	22	600	12.3			14	• • •	1040	24	486	22.3
	07124410	PU	RGATOIRE	RIVER BELO	OW TRINII	DAD LAI	KE, CO	(LAT 37	08 37N I	LONG 104 3	2 49W)	
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)				DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 04	1300	69	370	15.6			JUN 13		1615	207	445	12.3
20	1825	23	380	12.9			JUL					
JAN 28	1250	4.1	417	2.8			AUG		1350	178	446	13.6
MAR 13	1700	.33	426	7.8			14		1315	184	451	16.8
MAY 04	1410	89	451	9.6								
DATE OCT 19	071261 TIME 1425	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	VAN BREM SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	NEAR TY	RONE, (AUG	Г 37 23 DATE	58N LONG TIME	104 06 55 DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
APR 10	1710	<.01	14500	18.3			20	• • •	1010	1.5	2230	20.1
10	071263	DIS- CHARGE,	PURGATOI	RE RIVER N	NEAR THA	ICHER,	CO. A	г 37 21	30N LONG	DIS- CHARGE,	SPE-	
DATE	TIME	INST. CUBIC FEET PER SECOND (00061)	CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)				DATE	TIME	INST. CUBIC FEET PER SECOND (00061)	CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 19	1700	63	3220	10.6			JUN 23		1605	15	2490	25.1
JAN 27	1245	35	3280	2.7			AUG 18		1230	45	2490	21.8
APR 12	1335	139	1590	12.8			SEP 01		1140	18	2790	23.5
									-	-		

07128500 PURGATOIRE RIVER NEAR LAS ANIMAS, CO (LAT 38 02 02N LONG 103 12 00W)

DISCHARGE, SPEINST. CIFIC
CUBIC CONTEMPERFEET DUCTATURE
CHARGE, SPECUBIC CONFEET DUCTATURE
CUBIC CONFEET DUCTCUBIC CONFEET DUCTCUBI

DATE	TIME	INST. CUBIC FEET PER SECOND (00061)	CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	INST. CUBIC FEET PER SECOND (00061)	CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT					APR				
07	1825	89	2660	15.5	12	1715	167	1190	17.0
28	1245	83	2970	11.2	27	1140	79	1990	17.7
28	1300	83	2970	11.0	MAY				
NOV					30	1630	16	3210	28.0
23	1300	84	2920	5.5	JUN				
DEC					08	0940	15	3480	21.0
07	1410	54	3490	2.0	AUG				
JAN					01	1505	7.7	3160	30.0
18	1420	40	3650	6.5	15	1625	7.3	2010	32.0
FEB					30	1455	16	1700	27.0
01	1535	36	3580	3.5	31	1050	15	1790	21.5
MAR									
01	1010	32	3710	7.5					
16	1305	71	2860	9.5					

07133000 ARKANSAS RIVER AT LAMAR, CO (LAT 38 06 21N LONG 102 37 05W)

	DIS-					DIS-		
	CHARGE,	SPE-				CHARGE,	SPE-	
	INST.	CIFIC				INST.	CIFIC	
	CUBIC	CON-	TEMPER-			CUBIC	CON-	TEMPER-
	FEET	DUCT-	ATURE			FEET	DUCT-	ATURE
TIME	PER	ANCE	WATER	DATE	TIME	PER	ANCE	WATER
	SECOND	(US/CM)	(DEG C)			SECOND	(US/CM)	(DEG C)
	(00061)	(00095)	(00010)			(00061)	(00095)	(00010)
				APR				
1400	48	2790	19.5		1210	33	2710	15.5
				MAY				
1505	28	2940	14.5	16	1910	50	2680	19.5
				JUN				
1005	49	4160	5.0	14	1230	836	2190	19.5
				AUG				
0945	51	4060	5.5	16	1015	404	2310	22.5
				SEP				
1450	141	2500	10.5	21	1610	14	3240	24.5
0950	74	2610	6.0					
	1400 1505 1005 0945	CHARGE, INST. CUBIC FEET PER SECOND (00061) 1400 48 1505 28 1005 49 0945 51 1450 141	TIME CHARGE, SPE- INST. CIFIC CUBIC CON- FEET DUCT- PER ANCE SECOND (US/CM) (00061) (00095) 1400 48 2790 1505 28 2940 1005 49 4160 0945 51 4060 1450 141 2500	CHARGE, SPE- INST. CIFIC CUBIC CON- FEET DUCT- PER ANCE WATER SECOND (US/CM) (DEG C) (00061) (00095) (00010) 1400 48 2790 19.5 1505 28 2940 14.5 1005 49 4160 5.0 0945 51 4060 5.5 1450 141 2500 10.5	CHARGE, SPE- INST. CIFIC CUBIC CON- FEET DUCT- ATURE PER ANCE WATER DATE SECOND (US/CM) (D0010) APR 1400 48 2790 19.5 12 MAY 1505 28 2940 14.5 16 JUN 1005 49 4160 5.0 14 AUG 0945 51 4060 5.5 16 SEP 1450 141 2500 10.5 21	CHARGE, SPE- INST. CIFIC CUBIC CON- FEET DUCT- PER ANCE WATER (00061) (00095) (00010) TIME APR 1400 48 2790 19.5 12 1210 MAY 1505 28 2940 14.5 16 1910 JUN 1005 49 4160 5.0 14 1230 AUG 0945 51 4060 5.5 16 1015 SEP 1450 141 2500 10.5 21 1610	CHARGE, SPE- CHARGE, INST. CIFIC CUBIC COUBIC C	CHARGE, SPE-

07134100 BIG SANDY CREEK NEAR LAMAR, CO (LAT 38 06 51N LONG 102 29 00W)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT					MAR				
07 NOV	1040	18	4060	14.0	22 MAY	1155	16	4550	7.5
18 DEC	1220	12	4440	12.0	17 JUN	1110	18	4160	18.0
16 JAN	0945	16	4640	2.5	15 AUG	1125	14	3390	12.5
19 FEB	1155	38	4210	6.5	16	1305	21	3720	24.0
29	1010	45	4290	7.0					

SUPPLEMENTAL WATER-OUALITY DATA FOR GAGING STATIONS

07134180 ARKANSAS RIVER NEAR GRANADA, CO (LAT 38 05 44N LONG 102 18 37W) DIS-CHARGE, DTS-CHARGE, SPE-SPE-INST. CIFIC CON-INST. CIFIC CON-TEMPER-TEMPER-DUCT-ANCE ATURE WATER FEET PER DUCT-ANCE ATURE WATER FEET DATE TIME PER DATE TIME SECOND (00061) (US/CM) (00095) (US/CM) (00095) (DEG C) SECOND (DEG C) (00010)(00061) (00010)OCT APR 06... 1815 118 3770 18.5 11... 1650 133 3630 15.5 MAY NOV 17... 18... 1015 140 3660 11.0 1325 117 3580 20.0 DEC JUN , 16... 1255 3930 5.5 14... 1710 821 2300 21.5 JUL 19... JAN 19... 1350 167 3990 9.0 1845 730 2500 26.0 FEB AUG 29... 1225 311 2970 9.0 16... 1550 427 2580 27.0 MAR 22... 1350 159 3620 7.5 07134990 WILD HORSE CREEK ABOVE HOLLY, CO (LAT 38 03 24N LONG 102 08 16W) DIS-CHARGE, INST. CUBIC SPE-CHARGE. SPE-INST. CUBIC FEET CIFIC CIFIC CON-DUCT-TEMPER-ATURE CON-DUCT-TEMPER-ATURE FEET PER SECOND ANCE (US/CM) WATER (DEG C) PER SECOND ANCE (US/CM) DATE TIME DATE TIME WATER (DEG C) (00061) (00095) (00010) (00061) (00095) (00010) NOV JUN 17... 1115 28 3610 10.0 28... 1430 17 3430 19.5 MAR 22... JUL 19... 8.5 1640 3560 2025 43 3290 25.5 26 30... 1600 34 3910 10.0 MAY 17... 1510 33 3110 20.0 08217500 RIO GRANDE AT WAGON WHEEL GAP, CO (LAT 37 46 01N LONG 106 49 51W) DIS-CHARGE, SPE-CHARGE. SPE-INST. INST. CIFIC CIFIC CUBIC CON-TEMPER-CON-TEMPER-FEET DUCT-ATURE FEET DUCT-ATURE PER SECOND ANCE (US/CM) WATER (DEG C) PER SECOND ANCE (US/CM) WATER (DEG C) DATE TIME DATE TIME (00061) (00095)(00010) (00061)(00095)(00010)OCT 05... MAR 23... 1250 607 76 8.5 1315 113 115 6.5 MAY 04... NOV 04... 103 4.0 1125 1540 57 1325 328 6.1 JUL 06... DEC 16... 1120 119 139 .0 2050 362 80 18.8 FEB 09...

1135

113

125

.0

DISCHARGES AND SELECTED WATER-QUALITY DATA AT SITES ON THE LOWER ARKANSAS RIVER

Water-quality data and discharges collected beginning July 1998 at selected sites between Pueblo Reservoir and Las Animas, Colorado. These data will be used to: 1) provide water-quality data to evaluate spatial, temporal, and flow-related changes and trends throughout the lower Arkansas River basin between Pueblo and Las Animas; 2) to complement and help corroborate the reliability of data being collected by other data-collection programs and; 3) determine source areas for selenium and evaluate potential pathways of selenium through the aquatic ecosystem.

07099400 ARKANSAS RIVER ABOVE PUEBLO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $38^{\circ}16^{\circ}18^{\circ}$, long $104^{\circ}43^{\circ}03^{\circ}$, in $NE^{1}/_{4}NE^{1}/_{4}$ (revised) sec.36, T.20 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, on left bank 200 feet downstream from northeast corner of Arkansas River bridge, 0.4 mile downstream from Pueblo Dam, and 7.0 miles west of Pueblo.

DRAINAGE AREA.--4,670 mi².

PERIOD OF RECORD.--October 1965 to September 1970, December 1985 to current year.

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT	0900	334	484	8.4	14.0	0.0	125	<.035	.050
25 MAR	0900	334	484	8.4	14.0	9.8	125	<.035	.050
13 APR	0845	327	534	8.5	5.1	11.3	150	.319	.054
24 JUN	0845	401	533	8.0	9.7	10.5	151	<.014	.050
05	1230	2680	555	8.2	13.0	9.8	162	.282	<.032
AUG 28	1000	734	399	8.3	22.0	8.0	100	.226	.084
DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	CARBON INRGSED BEDMAT PERCENT (30241)	CARBON ORG.SED BEDMAT PERCENT (30243)	SELE- NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
DATE OCT 25	PHORUS DIS- SOLVED (MG/L AS P)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	NESE, DIS- SOLVED (UG/L AS MN)	NIUM, TOTAL (UG/L AS SE)	NIUM, DIS- SOLVED (UG/L AS SE)	INRGSED BEDMAT PERCENT	ORG.SED BEDMAT PERCENT	NIUM BOT MAT <63U WS FIELD (UG/G)
OCT 25 MAR 13	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT	ORG.SED BEDMAT PERCENT	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT 25 MAR 13 APR 24	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT 25 MAR 13 APR	PHORUS DIS- SOLVED (MG/L AS P) (00666) .021 <.041	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145) 4.5	INRGSED BEDMAT PERCENT (30241) 	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)

DISCHARGES AND SELECTED WATER-QUALITY DATA AT SITES ON THE LOWER ARKANSAS RIVER--Continued

381628104381700 WILDHORSE CREEK AT THE MOUTH AT PUEBLO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $38^{\circ}16^{\circ}28^{\circ}$, long $104^{\circ}38^{\circ}17^{\circ}$, in $SE^{1}/_{4}SW^{1}/_{4}$ sec.26, T.20 S., R.65 W., Pueblo County, Hydrologic Unit 11020002, 20 feet downstream from Union Pacific Railroad, 0.3 mi upstream from the Arkansas River, and 1.5 mi west of courthouse in Pueblo (revised).

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

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT 25 MAR	1050	2.0	4320	8.0	8.8	9.8	2100	35.2	.980
13	1045	1.8	4340	8.0	8.0	8.8	2010	37.0	7.24
APR 24	1030	2.0	4100	8.2	13.8	12.2	1850	30.8	6.33
JUN 05	1505	1.8	3710	8.2	26.0	9.1	1550	28.5	9.26
AUG 28	1125	1.2	3480	8.1	20.9	6.5	1480	27.8	.125
DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	CARBON INRGSED BEDMAT PERCENT (30241)	CARBON ORG.SED BEDMAT PERCENT (30243)	SELE- NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	NESE, DIS- SOLVED (UG/L AS MN)	NIUM, TOTAL (UG/L AS SE)	NIUM, DIS- SOLVED (UG/L AS SE)	INRGSED BEDMAT PERCENT	ORG.SED BEDMAT PERCENT	NIUM BOT MAT <63U WS FIELD (UG/G)
	PHORUS DIS- SOLVED (MG/L AS P)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT	ORG.SED BEDMAT PERCENT	NIUM BOT MAT <63U WS FIELD (UG/G)
OCT 25 MAR 13 APR 24	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT 25 MAR 13 APR	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERRABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147) 574	NIUM, DIS- SOLVED (UG/L AS SE) (01145) 540	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)

DISCHARGES AND SELECTED WATER-QUALITY DATA AT SITES ON THE LOWER ARKANSAS RIVER--Continued

07099970 ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $38^{\circ}15^{\circ}13^{\circ}$, long $104^{\circ}36^{\circ}02^{\circ}$, in $SW^{1}/_{4}NW^{1}/_{4}$ (revised) sec.6, T.21 S., R.64 W., Pueblo County, Hydrologic Unit 11020002, on right bank 10 feet 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 \min^2 .

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

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT									
25 MAR	1140	321	571	8.6	13.6	10.2	180	<.035	.040
13 APR	1135	353	598	8.9	6.6	13.2	185	.624	<.032
24	1135	280	587	9.0	12.0	12.9	182	<.014	.040
JUN 05	1500	2560	563	8.4	15.1	8.9	170	.353	.060
AUG 28	1200	749	427	8.6	23.2	8.9	106	.300	<.032
DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	CARBON INRGSED BEDMAT PERCENT (30241)	CARBON ORG.SED BEDMAT PERCENT (30243)	SELE- NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT	ORG.SED BEDMAT PERCENT	NIUM BOT MAT <63U WS FIELD (UG/G)
OCT 25 MAR	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT 25 MAR 13	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT 25 MAR 13 APR 24	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT 25 MAR 13 APR	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145) 8.5	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)

DISCHARGES AND SELECTED WATER-QUALITY DATA AT SITES ON THE LOWER ARKANSAS RIVER--Continued

07106500 FOUNTAIN CREEK AT PUEBLO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $38^{\circ}17^{\circ}16^{\circ}$, long $104^{\circ}36^{\circ}02^{\circ}$, in $SE^{1}/_{4}SW^{1}/_{4}$ 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.

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

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT 25	1200	234	1110	8.3	11.5	9.4	340	3.07	.030
MAR	1200	234	1110	0.3	11.5	9.4	340	3.07	.030
13 APR	1200	256	1110	8.5	10.0	9.7	339	4.03	<.032
24 JUN	1130	241	977	8.4	14.5	8.7	316	2.62	<.032
05 AUG	1530	48	1300	8.6	28.5	6.7	424	3.07	.040
28	1200	169	1090	8.4	25.0	6.9	306	2.34	.044
DATE	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS ORTHO, DIS- SOLVED	MANGA- NESE, TOTAL RECOV- ERABLE	MANGA- NESE, DIS- SOLVED	SELE- NIUM, TOTAL	SELE- NIUM, DIS- SOLVED	CARBON INRGSED	CARBON ORG.SED	SELE- NIUM BOT MAT
DATE	(MG/L AS P) (00666)	(MG/L AS P) (00671)	(UG/L AS MN) (01055)	(UG/L AS MN) (01056)	(UG/L AS SE) (01147)	(UG/L AS SE) (01145)	BEDMAT PERCENT (30241)	BEDMAT PERCENT (30243)	<63U WS FIELD (UG/G) (34950)
OCT 25	AS P)	(MG/L AS P)	(UG/L AS MN)	(UG/L AS MN)	(UG/L AS SE)	(UG/L AS SE)	BEDMAT PERCENT	BEDMAT PERCENT	FIELD (UG/G)
OCT 25 MAR 13	AS P) (00666)	(MG/L AS P) (00671)	(UG/L AS MN) (01055)	(UG/L AS MN) (01056)	(UG/L AS SE) (01147)	(UG/L AS SE) (01145)	BEDMAT PERCENT	BEDMAT PERCENT	FIELD (UG/G) (34950)
OCT 25 MAR 13 APR 24	AS P) (00666)	(MG/L AS P) (00671)	(UG/L AS MN) (01055)	(UG/L AS MN) (01056)	(UG/L AS SE) (01147)	(UG/L AS SE) (01145)	BEDMAT PERCENT (30241)	BEDMAT PERCENT (30243)	FIELD (UG/G) (34950)
OCT 25 MAR 13 APR 24 JUN 05	AS P) (00666) .211 .271	(MG/L AS P) (00671) .202 .242	(UG/L AS MN) (01055) 250 443	(UG/L AS MN) (01056) <7 <6	(UG/L AS SE) (01147) 22 16	(UG/L AS SE) (01145) 15.0 12.8	BEDMAT PERCENT (30241) .13	BEDMAT PERCENT (30243)	FIELD (UG/G) (34950)
OCT 25 MAR 13 APR 24 JUN	AS P) (00666) .211 .271 .236	(MG/L AS P) (00671) .202 .242	(UG/L AS MN) (01055) 250 443 289	(UG/L AS MN) (01056) <7 <6 <6	(UG/L AS SE) (01147) 22 16	(UG/L AS SE) (01145) 15.0 12.8 14.1	BEDMAT PERCENT (30241) .13 .06	BEDMAT PERCENT (30243) .12	FIELD (UG/G) (34950) .4

DISCHARGES AND SELECTED WATER-QUALITY DATA AT SITES ON THE LOWER ARKANSAS RIVER--Continued

381515104351900 FOUNTAIN CREEK AT MOUTH AT PUEBLO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $38^{\circ}15^{\circ}15^{\circ}$, long $104^{\circ}35^{\circ}19^{\circ}$, in $SE^{1}/_{4}NE^{1}/_{4}$ sec.6, T.21 S., R.64 W., Pueblo County, Hydrologic Unit 11020002, 60 feet downstream from Arkansas River Trail walk bridge, 650 ft upstream from the mouth, and 1.8 mi southeast of courthouse in Pueblo.

PERIOD OF RECORD.--October 1997 to August 1998, March to September 2000.

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
MAR 13 APR	1245	E255	1120	8.4	11.8	9.3	339	4.03	<.032
24	1215	E243	996	8.4	17.4	8.7	307	3.74	<.032
JUN 05	1550	E48	1350	8.5	29.0	6.7	459	2.79	.040
AUG 28	1215	E170	1110	8.4	26.5	6.6	319	2.28	<.032
DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	CARBON INRGSED BEDMAT PERCENT (30241)	CARBON ORG.SED BEDMAT PERCENT (30243)	SELE- NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
MAR 13	.271	.278	443	<6	16	12.8	.19	.20	.6
APR 24	.594	.239	276	<6	14	14.1	.05	.07	. 4
JUN 05	.167	.141	69	<6	31	28.9			
AUG 28	.233	.181	369	6	20	21.0			

arkansas river basin 453

DISCHARGES AND SELECTED WATER-QUALITY DATA AT SITES ON THE LOWER ARKANSAS RIVER--Continued

381534104333201 ARKANSAS RIVER AT SITE 10-A NEAR PUEBLO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $38^{\circ}15^{\circ}34^{\circ}$, long $104^{\circ}33^{\circ}32^{\circ}$, in $SW^{1}/_{4}SE^{1}/_{4}$ sec.33, T.20 S., R.64 W., Pueblo County, Hydrologic Unit 11020002, 0.9 mi downstream from the Pueblo Wastewater Treatment Plant outfall, 1.8 mi downstream from Fountain Creek, and 3.0 mi southeast of courthouse in Pueblo.

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

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT 25 MAR	1310	562	881	8.3	14.5	8.5	260	1.61	1.06
13	1330	537	757	8.6	8.9	12.3	217	1.57	.248
APR 24 JUN	1250	509	812	8.4	15.1	9.8	242	1.23	.590
05	1645	E2610	565	8.4	15.5	9.0	173	.410	.050
AUG 28	1255	940	578	8.4	24.3	8.1	149	.645	.392
DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	CARBON INRGSED BEDMAT PERCENT (30241)	CARBON ORG.SED BEDMAT PERCENT (30243)	SELE- NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT 25	.242	.202	132	<7	18	13.0			
MAR 13	.112	.116	131	<6	13	11.7	.03	<.05	.2
13 APR 24	.112	.116	131 90	<6 <6	13 14	11.7 13.2	.03	<.05	.2
13 APR									

DISCHARGES AND SELECTED WATER-QUALITY DATA AT SITES ON THE LOWER ARKANSAS RIVER--Continued 381530104333200 CF&I STEEL CORPORATION OUTFALL NEAR PUEBLO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $38^{\circ}15^{\circ}30^{\circ}$, long $104^{\circ}33^{\circ}46^{\circ}$, in $NW^{1}/_{4}NE^{1}/_{4}$ sec.4, T.21 S., R.64 W., Pueblo County, Hydrologic Unit 11020002, 200 feet upstream from the mouth, 0.9 mi northeast of Pueblo Wastewater Treatment Plant outfall, and 3.0 mi southeast of courthouse in Pueblo.

PERIOD OF RECORD.--March to September 2000.

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
MAR							056		0.54
13 APR	1300	55	800	8.3	10.6	9.4	256	.755	.054
24 JUN	1315	58	852	8.3	15.9	8.7	272	.674	<.032
05	1715	63	785	8.4	21.6	6.8	261	.458	.032
AUG 28	1345	66	693	8.2	26.0	7.1	217	.386	.062
DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	CARBON INRGSED BEDMAT PERCENT (30241)	CARBON ORG.SED BEDMAT PERCENT (30243)	SELE- NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
MAR	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
MAR 13 APR	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
MAR 13 APR 24	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
MAR 13 APR	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)

DISCHARGES AND SELECTED WATER-QUALITY DATA AT SITES ON THE LOWER ARKANSAS RIVER--Continued 381530104294600 ARKANSAS RIVER AT BAXTER ROAD NEAR BAXTER, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $38^{\circ}15'30"$, long $104^{\circ}29'46"$, in $NW^{1}/_{4}NW^{1}/_{4}$ sec.6, T.21 S., R.63 W., Pueblo County, Hydrologic Unit 11020002, at the upstream side of bridge of State Highway 233, 1.2 mi south of Baxter, and 2.6 mi upstream from the St. Charles River.

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

REMARKS.--The following remark codes may appear in the tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT									
25 MAR	1430	624	860	8.2	15.0	8.4	270	1.62	.480
13 APR	1450	559	826	8.4	9.3	10.5	249	2.10	.246
24	1415	582	816	8.2	18.0	7.5	283	1.87	.260
JUN 05	1815	2630	603	8.3	17.0	8.0	185	.479	.110
AUG 28	1445	992	657	8.2	26.0	6.3	181	1.01	.130
DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	CARBON INRGSED BEDMAT PERCENT (30241)	CARBON ORG.SED BEDMAT PERCENT (30243)	SELE- NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT	ORG.SED BEDMAT PERCENT	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
	PHORUS DIS- SOLVED (MG/L AS P)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	NESE, DIS- SOLVED (UG/L AS MN)	NIUM, TOTAL (UG/L AS SE)	NIUM, DIS- SOLVED (UG/L AS SE)	INRGSED BEDMAT PERCENT	ORG.SED BEDMAT PERCENT	NIUM BOT MAT <63U WS FIELD (UG/G)
OCT 25 MAR 13	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT	ORG.SED BEDMAT PERCENT	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT 25 MAR 13 APR 24	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT 25 MAR 13 APR	PHORUS DIS- SOLVED (MG/L AS P) (00666) .154	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)

DISCHARGES AND SELECTED WATER-QUALITY DATA AT SITES ON THE LOWER ARKANSAS RIVER--Continued

07109000 ST. CHARLES RIVER AT MOUTH NEAR PUEBLO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $38^{\circ}15^{\circ}42^{\circ}$, long $104^{\circ}28^{\circ}03^{\circ}$, in $SW^{1}/_{4}SE^{1}/_{4}$ sec.32, T.20 S., R.63 W., Pueblo County, Hydrologic Unit 11020002, 0.1 mi west of State Highway 231 bridge over the Arkansas River, 1.4 mi north of Vineland, 3.0 mi downstream from U.S. Highway 50 bridge, and 8.2 mi east of courthouse in Pueblo (revised).

DRAINAGE AREA.--475 \min^2 .

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

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT 25	1450	28	1660	7.8	15.5	10.2	750	<.035	.060
MAR									
13 APR	1605	14	2220	8.2	15.5	9.3	1160	1.95	<.032
24 JUN	1515	81	826	8.2	19.1	8.2	325	.590	.070
05	1840	29	1720	8.1	23.8	6.6	814	1.09	.060
AUG 28	1510	11	2060	8.2	27.2	8.7	1060	.717	<.032
DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L	MANGA- NESE, DIS- SOLVED (UG/L	SELE- NIUM, TOTAL (UG/L	SELE- NIUM, DIS- SOLVED	CARBON INRGSED BEDMAT	CARBON ORG.SED BEDMAT	SELE- NIUM BOT MAT <63U WS FIELD
	(00666)	AS P) (00671)	AS MN) (01055)	AS MN) (01056)	AS SE) (01147)	AS SE) (01145)	PERCENT (30241)	PERCENT (30243)	(UG/G) (34950)
OCT	(00666)	(00671)	(01055)	(01056)	AS SE) (01147)	AS SE) (01145)			(34950)
25 MAR	.016	.016	97	(01056)	AS SE) (01147)	AS SE) (01145)	(30241)	(30243)	(34950)
25 MAR 13	(00666)	(00671)	(01055)	(01056)	AS SE) (01147)	AS SE) (01145)	(30241)	(30243)	(34950)
25 MAR 13 APR 24	.016	.016	97	(01056)	AS SE) (01147)	AS SE) (01145)	(30241)	(30243)	(34950)
25 MAR 13 APR	.016	.016	97 134	(01056) 70 109	AS SE) (01147) 22 30	AS SE) (01145) 19.5 23.3	(30241) 1.4	(30243)	(34950)

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DISCHARGES AND SELECTED WATER-QUALITY DATA AT SITES ON THE LOWER ARKANSAS RIVER--Continued

07109500 ARKANSAS RIVER NEAR AVONDALE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°14'53", long $104^\circ23'55$ ", in $\mathrm{NE}^1/_4\mathrm{SW}^1/_4$ sec.1, T.21 S., R.63 W., Pueblo County, Hydrologic Unit 11020002, on right bank 15 feet downstream from bridge on Sixmile Road, 0.3 mi upstream from Sixmile Creek, and 2.6 mi west of Avondale. DRAINAGE AREA.--6,327 mi 2 .

PERIOD OF RECORD.--April to October 1976, April 1979 to September 1980, December 1985 to current year.

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DIJ

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT 25	1615	660	912	8.3	15.0	9.0	300	<.035	.130
MAR 13	1730	577	902	8.3	10.5	9.7	281	2.26	.119
APR 24	1650	670	821	8.3	18.0	8.0	258	1.78	.070
JUN 05	2000	2640	625	8.3	17.5	7.7	190	.480	.060
AUG 28	1640	1000	627	8.1	26.2	6.5	178	.994	.116
DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	CARBON INRGSED BEDMAT PERCENT (30241)	CARBON ORG.SED BEDMAT PERCENT (30243)	SELE- NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT 25	.130	.112	111	<7	16	13.3			
MAR									
13 APR	.150	.139	133	9	13	12.9	.15	.08	.3
24 JUN	.199	.112	63	8	10	10.8	.12	.08	. 4
05	.046	.033	118	<6	5	5.6			
AUG 28	.117	.072	158	7	10	8.4	.19	.09	.3

DISCHARGES AND SELECTED WATER-QUALITY DATA AT SITES ON THE LOWER ARKANSAS RIVER--Continued

07110000 SIXMILE CREEK AT MOUTH NEAR AVONDALE, CO

WATER-QUALITY RECORDS

LOCATION (REVISED).--Lat $38^{\circ}14^{\circ}47^{\circ}$, long $104^{\circ}23^{\circ}36^{\circ}$, in $SE^{1}/_{4}SW^{1}/_{4}$ sec.1, T.21 S., R.63 W., Pueblo County, Hydrologic Unit 11020002, on left bank at upstream end of bridge on U.S. Highway 50 Business, 0.3 mi upstream from mouth, 2.6 mi west of Avondale, and 3.5 mi east of Vineland.

DRAINAGE AREA.--45.0 \mbox{mi}^2 .

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

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT									
25 MAR	1605	24	1520	8.2	15.5	8.9	700	5.60	.020
13 APR	1740	6.9	2490	8.2	11.3		1230	12.5	<.032
24	1650	10	1780	8.3	17.9	9.6	1020	8.60	.050
JUN 05	2000	12	1640	8.1	19.0	7.4	749	7.07	.040
AUG 28	1635	13	1810	8.2	24.1	7.5	879	7.02	.060
DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	CARBON INRGSED BEDMAT PERCENT (30241)	CARBON ORG.SED BEDMAT PERCENT (30243)	SELE- NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT	ORG.SED BEDMAT PERCENT	NIUM BOT MAT <63U WS FIELD (UG/G)
OCT 25 MAR	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT 25	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT 25 MAR 13 APR 24	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT 25 MAR 13 APR	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145) 11.0	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)

ARKANSAS RIVER BASIN 459

DISCHARGES AND SELECTED WATER-QUALITY DATA AT SITES ON THE LOWER ARKANSAS RIVER--Continued

07116500 HUERFANO RIVER NEAR BOONE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $38^{\circ}13^{\circ}30^{\circ}$, long $103^{\circ}15^{\circ}37^{\circ}$, in $\mathrm{NE}^{1}/_{4}\mathrm{NE}^{1}/_{4}$ 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. -- July 1998 to current year.

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT									
25 MAR	1720	31	2020	8.3	16.0	8.2	950	<.035	.030
13 APR	1815	9.2	3880	8.4	12.2	9.2	2020	1.11	.033
24 JUN	1745	439	1610	8.5	20.1	7.7	676	.185	<.032
06	0900	7.7	3960	8.3	17.3	8.1	2180	.518	.050
DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	CARBON INRGSED BEDMAT PERCENT (30241)	CARBON ORG.SED BEDMAT PERCENT (30243)	SELE- NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	NESE, DIS- SOLVED (UG/L AS MN)	NIUM, TOTAL (UG/L AS SE)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT	ORG.SED BEDMAT PERCENT	NIUM BOT MAT <63U WS FIELD (UG/G)
OCT 25 MAR 13	PHORUS DIS- SOLVED (MG/L AS P)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE)	INRGSED BEDMAT PERCENT	ORG.SED BEDMAT PERCENT	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT 25 MAR	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		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	TIME	PER	ANCE	WATER
		SECOND	(US/CM)	(DEG C)			SECOND	(US/CM)	(DEG C)
		(00061)	(00095)	(00010)			(00061)	(00095)	(00010)
OCT					APR				
05	1400	25	1570	20.5	05	1200	59	1580	14.0
NOV					24	1005	312	1590	12.1
04	1140	32	1960	11.0	MAY				
DEC					03	1445	100	1640	20.1
07	1325	35	2550	4.7	31	1055	9.0	3820	19.5
JAN					JUL				
05	1205	20	2940	2.8	06	0715	1.7	4940	17.0
FEB					AUG				
02	1405	24	2830	9.5	02	0815	.88	4910	18.0
MAR									
01	0945	9.0	4020	6.5					

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DISCHARGES AND SELECTED WATER-QUALITY DATA AT SITES ON THE LOWER ARKANSAS RIVER--Continued

07117600 CHICOSA CREEK NEAR FOWLER, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $38^{\circ}08^{\circ}57^{\circ}$, long $104^{\circ}04^{\circ}47^{\circ}$, in $\mathrm{SE}^{1}/_{4}\mathrm{NE}^{1}/_{4}$ sec.11, T.22 S., R.60 W., Pueblo County, Hydrologic Unit 11020005 at U.S. Highway 50 bridge, 0.6 mi upstream from mouth, and 3.0 mi west of Fowler.

DRAINAGE AREA.--109 mi².

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

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT 26 MAR	0920	30	1270	8.3	9.3	9.9	480	2.09	.030
14	0950	3.9	1820	8.2	11.5	8.9	763	4.01	.035
APR 25	1020	10	1580	8.3	13.1	10.1	596	2.10	.040
JUN 06	1015	11	1370	8.1	18.0	8.4	540	4.18	.090
AUG 29	0850	56	775	8.3	20.8	7.6	256	1.26	.083
22.00	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS ORTHO, DIS-	MANGA- NESE, TOTAL RECOV-	MANGA- NESE, DIS-	SELE- NIUM,	SELE- NIUM, DIS-	CARBON	CARBON	SELE- NIUM BOT MAT
DATE	(MG/L AS P) (00666)	SOLVED (MG/L AS P) (00671)	ERABLE (UG/L AS MN) (01055)	SOLVED (UG/L AS MN) (01056)	TOTAL (UG/L AS SE) (01147)	SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	<63U WS FIELD (UG/G) (34950)
OCT 26	(MG/L AS P)	(MG/L AS P)	(UG/L AS MN)	(UG/L AS MN)	(UG/L AS SE)	(UG/L AS SE)	BEDMAT PERCENT	BEDMAT PERCENT	FIELD (UG/G)
OCT	(MG/L AS P) (00666)	(MG/L AS P) (00671)	(UG/L AS MN) (01055)	(UG/L AS MN) (01056)	(UG/L AS SE) (01147)	(UG/L AS SE) (01145)	BEDMAT PERCENT (30241)	BEDMAT PERCENT (30243)	FIELD (UG/G) (34950)
OCT 26 MAR 14 APR 25	(MG/L AS P) (00666)	(MG/L AS P) (00671)	(UG/L AS MN) (01055)	(UG/L AS MN) (01056)	(UG/L AS SE) (01147)	(UG/L AS SE) (01145)	BEDMAT PERCENT (30241)	BEDMAT PERCENT (30243)	FIELD (UG/G) (34950)
OCT 26 MAR 14 APR	(MG/L AS P) (00666) .082	(MG/L AS P) (00671) .073	(UG/L AS MN) (01055) 112 233	(UG/L AS MN) (01056) 21 194	(UG/L AS SE) (01147) 12	(UG/L AS SE) (01145) 11.8 14.1	BEDMAT PERCENT (30241) .43	BEDMAT PERCENT (30243) <.05	FIELD (UG/G) (34950)

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DISCHARGES AND SELECTED WATER-QUALITY DATA AT SITES ON THE LOWER ARKANSAS RIVER--Continued

380715103564701 APISHAPA RIVER AT HIGHWAY 50 NEAR FOWLER, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°07'15", long 103°56'47", in $SW^1/_4NW^1/_4$ sec.19, T.22 S., R.58 W., Otero County, Hydrologic Unit 11020007, at upstream side of bridge on U.S. Highway 50, 0.8 mi upstream from mouth, and 4.1 mi east of Fowler.

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

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	(MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	
OCT 26 MAR	1320	22	2200	8.1	12.8	13.7	1100	4.45	.040	
14	1345	22	1600	8.3	13.5	12.8	697	3.12	<.032	
APR 25	1310	38	1800	8.1	15.3	9.8	788	2.92	.040	
JUN 06	1010	25	1710	8.0	17.2	8.4	772	2.32	.050	
AUG 29	1225	26	1660	8.2	23.3	8.6	711	2.88	.034	
	PHOS- PHORUS DIS-	PHOS- PHORUS ORTHO, DIS-	MANGA- NESE, TOTAL RECOV-	MANGA- NESE, DIS-	SELE- NIUM,	SELE- NIUM, DIS-	CARBON	CARBON	SELE- NIUM BOT MAT	
DATE	SOLVED (MG/L AS P) (00666)	SOLVED (MG/L AS P) (00671)	ERABLE (UG/L AS MN) (01055)	SOLVED (UG/L AS MN) (01056)	TOTAL (UG/L AS SE) (01147)	SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT (30241)		<63U WS FIELD (UG/G) (34950)	
OCT	SOLVED (MG/L AS P) (00666)	SOLVED (MG/L AS P)	(UG/L AS MN) (01055)	(UG/L AS MN) (01056)	(UG/L AS SE) (01147)	(UG/L AS SE) (01145)	BEDMAT PERCENT	BEDMAT PERCENT	FIELD (UG/G)	
	SOLVED (MG/L AS P)	SOLVED (MG/L AS P)	(UG/L AS MN)	(UG/L AS MN)	(UG/L AS SE)	(UG/L AS SE)	BEDMAT PERCENT	BEDMAT PERCENT	FIELD (UG/G)	
OCT 26 MAR 14 APR 25	SOLVED (MG/L AS P) (00666)	SOLVED (MG/L AS P) (00671)	(UG/L AS MN) (01055)	(UG/L AS MN) (01056)	(UG/L AS SE) (01147)	(UG/L AS SE) (01145)	BEDMAT PERCENT (30241)	BEDMAT PERCENT (30243)	FIELD (UG/G) (34950)	
OCT 26 MAR 14 APR 25 JUN 06	SOLVED (MG/L AS P) (00666) .033	SOLVED (MG/L AS P) (00671)	(UG/L AS MN) (01055) 61 92	(UG/L AS MN) (01056) 57 56	(UG/L AS SE) (01147) 26 17	(UG/L AS SE) (01145) 20.3	BEDMAT PERCENT (30241) 1.1	BEDMAT PERCENT (30243) 	FIELD (UG/G) (34950) 	
OCT 26 MAR 14 APR 25 JUN	SOLVED (MG/L AS P) (00666) .033 .057	SOLVED (MG/L AS P) (00671) .049	(UG/L AS MN) (01055) 61 92 115	(UG/L AS MN) (01056) 57 56	(ŪG/L AS SE) (01147) 26 17	(UG/L AS SE) (01145) 20.3 10.4	BEDMAT PERCENT (30241) 1.1 1.0	BEDMAT PERCENT (30243) .41	FIELD (UG/G) (34950) 1.2	

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DISCHARGES AND SELECTED WATER-QUALITY DATA AT SITES ON THE LOWER ARKANSAS RIVER--Continued

07119700 ARKANSAS RIVER AT CATLIN DAM NEAR FOWLER, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $38^{\circ}07^{\circ}33^{\circ}$, long $103^{\circ}54^{\circ}41^{\circ}$, in $NW^{1}/_{4}NW^{1}/_{4}$ sec.21, T.22 S., R.58 W., Otero County, Hydrologic Unit 11020005, on right bank, 2.2 mi downstream from Catlin diversion dam (revised), 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 non-contributing.

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

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	
OCT 26	1435	400	1120	8.3	15.0	9.5	400	2.20	.050	
MAR	1435	400	1120	0.3	15.0	9.5	400	2.20	.050	
14 APR	1515	390	1190	8.4	12.7	9.8	428	2.35	<.032	
25 JUN	1420	475	1120	8.4	16.6	9.4	412	1.50	<.032	
06 AUG	1120	1470	665	8.3	18.6	8.3	309	.595	<.032	
29	1335	545	733	8.4	25.2	7.1	249	1.24	<.032	
DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	CARBON INRGSED BEDMAT PERCENT (30241)	CARBON ORG.SED BEDMAT PERCENT (30243)	SELE- NIUM BOT MAT <63U WS FIELD (UG/G) (34950)	
OCT 26	.090	.032	91	<7	13	11.3				
MAR 14	.104	.095	67	13	13	13.1	.19	.13	.2	
APR	.101		3.					.13		
25 JUN	<.041	.082	155	<6	12	13.5	.10	.08	.2	
06 AUG	.049	.045	291	<6	8	7.7				
29	.114	.067	281	8	8	7.3	.11	. 06	. 2	

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DISCHARGES AND SELECTED WATER-QUALITY DATA AT SITES ON THE LOWER ARKANSAS RIVER--Continued

380111103382101 TIMPAS CREEK AT HIGHWAY 50 AT SWINK, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $38^{\circ}01'16"$ (revised), long $103^{\circ}38'21"$, in $SE^{1}/_{4}NE^{1}/_{4}$ sec.26, T.23 S., R.56 W., Otero County, Hydrologic Unit 11020005, at bridge on U.S. Highway 50, 0.1 mi upstream from mouth, 0.6 mi west of Swink, and 4.5 mi east of Rocky Ford.

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

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	DIS- SOLVED	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT 27 MAR	0850	108	1880	8.1	10.1	9.2	900	4.62	.030
15	0750	57	2110	8.2	8.1	10.2	992	5.02	.236
APR 26	0730	128	1840	8.1	11.5	10.1	837	3.81	.040
JUN 06	1635	70	2000	7.9	25.1	6.7	1040	4.42	.060
AUG 30	0640	141	1540	8.2	19.8	7.1	700	3.21	.083
DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	CARBON INRGSED BEDMAT PERCENT (30241)	CARBON ORG.SED BEDMAT PERCENT (30243)	SELE- NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT 27	.084	.048	128	9	25	12.1			
MAR 15	.117	.100	289	60	16	16.6	3.1	.25	1.0
APR 26	.069	.102	238	12	17	15.0	2.4	.37	.9
JUN 06	.154	.060	286	12	18	12.3			
AUG 30	.156	.106	436	17	17	17.0	2.2	.29	.8

464 ARKANSAS RIVER BASIN

DISCHARGES AND SELECTED WATER-QUALITY DATA AT SITES ON THE LOWER ARKANSAS RIVER--Continued 375955103351201 CROOKED ARROYO AT HIGHWAY 50 NEAR LA JUNTA, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $37^{\circ}59^{\circ}55^{\circ}$, long $103^{\circ}35^{\circ}12^{\circ}$, in $SW^{1}/_{4}SE^{1}/_{4}$ sec.32, T.23 S., R.55 W., Otero County, Hydrologic Unit 11020005, at bridge on U. S. Highway 50, 0.8 mi upstream from mouth, 1.6 mi west northwest of La Junta, and 2.4 mi northeast of Swink.

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

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

40
40
32
90
43
E- M MAT WS
LD G) 50)
G)
G) 50) -
G) 50) - 6
G) 50) -
5 4

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DISCHARGES AND SELECTED WATER-QUALITY DATA AT SITES ON THE LOWER ARKANSAS RIVER--Continued

07123000 ARKANSAS RIVER AT LA JUNTA, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $37^{\circ}59^{\circ}26^{\circ}$, long $103^{\circ}31^{\circ}55^{\circ}$, in $\mathrm{SE}^{1}/_{4}\mathrm{NE}^{1}/_{4}$ 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, 450 feet upstream from King Arroyo.

DRAINAGE AREA.--12,210 mi^2 , of which 115 mi^2 are probably nonconributing.

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

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT 27 MAR	1420	61	1910	8.3	15.4	11.0	900		.030
15 APR	1305	48	2050	8.4	15.9	9.9	944	3.81	.050
26	1130	46	2080	8.2	16.8	10.9	992	3.14	<.032
JUN 07	0800	630	994	8.3	19.3	7.3	354	1.66	<.032
AUG 30	1030	54	1700	8.3	22.7	7.8	742	2.73	<.032
	PHOS- PHORUS	PHOS- PHORUS ORTHO,	MANGA- NESE, TOTAL	MANGA- NESE,	SELE- NIUM,	SELE- NIUM, DIS-	CARBON	CARBON	SELE- NIUM BOT MAT
DATE	DIS- SOLVED (MG/L AS P) (00666)	DIS- SOLVED (MG/L AS P) (00671)	RECOV- ERABLE (UG/L AS MN) (01055)	DIS- SOLVED (UG/L AS MN) (01056)	TOTAL (UG/L AS SE) (01147)	SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	<63U WS FIELD (UG/G) (34950)
OCT 27	SOLVED (MG/L AS P)	SOLVED (MG/L AS P)	ERABLE (UG/L AS MN)	SOLVED (UG/L AS MN)	TOTAL (UG/L AS SE)	SOLVED (UG/L AS SE)	BEDMAT PERCENT	BEDMAT PERCENT	FIELD (UG/G)
OCT 27 MAR 15	SOLVED (MG/L AS P) (00666)	SOLVED (MG/L AS P) (00671)	ERABLE (UG/L AS MN) (01055)	SOLVED (UG/L AS MN) (01056)	TOTAL (UG/L AS SE) (01147)	SOLVED (UG/L AS SE) (01145)	BEDMAT PERCENT	BEDMAT PERCENT	FIELD (UG/G) (34950)
OCT 27 MAR 15 APR 26	SOLVED (MG/L AS P) (00666)	SOLVED (MG/L AS P) (00671)	ERABLE (UG/L AS MN) (01055)	SOLVED (UG/L AS MN) (01056)	TOTAL (UG/L AS SE) (01147)	SOLVED (UG/L AS SE) (01145)	BEDMAT PERCENT (30241)	BEDMAT PERCENT (30243)	FIELD (UG/G) (34950)
OCT 27 MAR 15 APR 26 JUN 07	SOLVED (MG/L AS P) (00666) .071	SOLVED (MG/L AS P) (00671)	ERABLE (UG/L AS MN) (01055) 73	SOLVED (UG/L AS MN) (01056) 22 41	TOTAL (UG/L AS SE) (01147)	SOLVED (UG/L AS SE) (01145) 10.7	BEDMAT PERCENT (30241) .16	BEDMAT PERCENT (30243) .11	FIELD (UG/G) (34950)
OCT 27 MAR 15 APR 26 JUN	SOLVED (MG/L AS P) (00666) .071 .093	SOLVED (MG/L AS P) (00671) .031 .080 .036	ERABLE (UG/L AS MN) (01055) 73 112 127	SOLVED (UG/L AS MN) (01056) 22 41 58	TOTAL (UG/L AS SE) (01147) 12 17	SOLVED (UG/L AS SE) (01145) 10.7 18.2 15.9	BEDMAT PERCENT (30241) .16 .14	BEDMAT PERCENT (30243) .11	FIELD (UG/G) (34950) .2

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DISCHARGES AND SELECTED WATER-QUALITY DATA AT SITES ON THE LOWER ARKANSAS RIVER--Continued 380421103193101 HORSE CREEK AT MOUTH NEAR LAS ANIMAS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $38^{\circ}04^{\circ}21^{\circ}$, long $103^{\circ}20^{\circ}18^{\circ}$, in $NE^{1}/_{4}SW^{1}/_{4}$ sec.3, T.23 S., R.53 W., Otero County, Hydrologic Unit 11020008, 1.0 mi upstream from mouth, 1.3 mi downstream from State Highway 194 (revised), and 6.3 mi northwest of Las Animas.

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

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated labortory analysis value; K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT							4.500		
28 MAR	0755	62	3320	8.3	7.5	9.8	1600	1.13	<.020
16 APR	0820	24	7280	8.3	4.5	12.0	3650	.522	<.032
27 JUN	0800	22	5420	8.2	11.7	10.0	2730	.915	<.032
07 AUG	1630	39	3660	8.2	26.9	7.7	1370	.168	.040
31	0830	20	3630	8.1	18.1	7.7	1610	.785	.053
DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	CARBON INRGSED BEDMAT PERCENT (30241)	CARBON ORG.SED BEDMAT PERCENT (30243)	SELE- NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT 28	.055	.016	93	16	14	12.8			
MAR 16 APR	<.041	.006	191	141	8	10.2	.19	.14	1.1
27 JUN	<.041	.073	212	164	11	13.3	.26	.12	.9
07 AUG	.148	.026	323	24	13	13.6			
31	.131	.024	716	36	16	15.6	.18	.10	.6

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DISCHARGES AND SELECTED WATER-QUALITY DATA AT SITES ON THE LOWER ARKANSAS RIVER--Continued

380506103183801 ADOBE CREEK AT HIGHWAY 194 NEAR LAS ANIMAS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $38^{\circ}05^{\circ}06^{\circ}$, $\log 103^{\circ}18^{\circ}38^{\circ}$, in $NE^{1}/_{4}NE^{1}/_{4}$ sec.2, T.23 S., R.53 W., Bent County, Hydrologic Unit 11020009, at bridge on State Highway 194, 1.6 mi southwest of Cornelia, 1.7 mi upstream from mouth, and 5 mi west of Las Animas.

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

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	(MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT 28	0955	8.8	2120	8.2	8.8	10.0	1000	1.38	.040
MAR 16	0945	4.9	2470	8.5	7.2	11.6	1180	.767	.059
APR 27	1020	10	2100	8.3	16.8	9.6	1030	.770	.050
JUN 08	0745	13	1960	8.1	20.8	6.7		.345	.070
AUG 31	0950	6.8	2170	8.2	22.1	7.6		.274	<.032
DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	CARBON INRGSED BEDMAT PERCENT (30241)	CARBON ORG.SED BEDMAT PERCENT (30243)	SELE- NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT	ORG.SED BEDMAT PERCENT	NIUM BOT MAT <63U WS FIELD (UG/G)
	PHORUS DIS- SOLVED (MG/L AS P)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	NESE, DIS- SOLVED (UG/L AS MN)	NIUM, TOTAL (UG/L AS SE)	NIUM, DIS- SOLVED (UG/L AS SE)	INRGSED BEDMAT PERCENT	ORG.SED BEDMAT PERCENT	NIUM BOT MAT <63U WS FIELD (UG/G)
OCT 28 MAR	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT 28 MAR 16 APR	PHORUS DIS- SOLVED (MG/L AS P) (00666) .029 <.041	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145) 7.9	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)

468 ARKANSAS RIVER BASIN

DISCHARGES AND SELECTED WATER-QUALITY DATA AT SITES ON THE LOWER ARKANSAS RIVER--Continued

07124000 ARKANSAS RIVER AT LAS ANIMAS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $38^{\circ}04^{\circ}51^{\circ}$, long $103^{\circ}13^{\circ}09^{\circ}$, in $SE^{1}/_{4}NE^{1}/_{4}$ 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 mouth of Purgatoire River.

DRAINAGE AREA.--14,417 mi^2 , of which 441 mi^2 are noncontributing.

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

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT 28	1120	122	3000	8.2	9.5	10.2	1500	.188	.020
MAR	1120	122	3000	0.2	9.5	10.2	1500	.100	.020
16 APR	1045	85	4120	8.2	7.6	11.5	1960	1.80	.042
27 JUN	0930	62	4010	8.1	14.1	11.8	1920	1.56	.040
08 AUG	0620	293	1530	8.2	20.1	7.7	609	1.51	<.032
31	0730	56	3000	8.1	17.1	8.4	1440	1.58	.052
DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	CARBON INRGSED BEDMAT PERCENT (30241)	CARBON ORG.SED BEDMAT PERCENT (30243)	SELE- NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT 28	.025	.018	71	17	15	11.2			
MAR									
16 APR	<.041	.027	228	81	15	13.7	.11	.11	.2
27 JUN	<.041	.008	101	62	12	12.6	.22	.08	.2
08 AUG	E.030	.040	326	<6	12	8.0			

ARKANSAS RIVER BASIN 469

DISCHARGES AND SELECTED WATER-QUALITY DATA AT SITES ON THE LOWER ARKANSAS RIVER--Continued

07128500 PURGATOIRE RIVER NEAR LAS ANIMAS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $38^{\circ}02^{\circ}02^{\circ}$, long $103^{\circ}12^{\circ}00^{\circ}$, in $NE^{1}/_{4}SW^{1}/_{4}$ 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 from the mouth.

DRAINAGE AREA.--3,318 mi^2 .

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

REMARKS.--The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT	1045	0.2	0070	0.4	11 0	11.6	1500	. 025	000
28 MAR	1245	83	2970	8.4	11.2	11.6	1700	<.035	.020
16 APR	1305	71	2860	8.4	9.5	11.3	1430	1.32	<.032
27 JUN	1140	79	1990	8.4	17.7	9.6	1080	<.014	<.032
08	0940	15	3480	8.2	21.0	8.6	1900	<.014	<.032
AUG 31	1050	15	1790	8.2	21.5	8.2	906	.103	<.032
DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	CARBON INRGSED BEDMAT PERCENT (30241)	CARBON ORG.SED BEDMAT PERCENT (30243)	SELE- NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT	ORG.SED BEDMAT PERCENT	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT 28 MAR	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT 28 MAR 16	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT	ORG.SED BEDMAT PERCENT	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT 28 MAR 16 APR 27	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145)	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
OCT 28 MAR 16 APR	PHORUS DIS- SOLVED (MG/L AS P) (00666) .029 <.041	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NIUM, TOTAL (UG/L AS SE) (01147)	NIUM, DIS- SOLVED (UG/L AS SE) (01145) 6.8	INRGSED BEDMAT PERCENT (30241)	ORG.SED BEDMAT PERCENT (30243)	NIUM BOT MAT <63U WS FIELD (UG/G) (34950)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		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	TIME	PER	ANCE	WATER
		SECOND	(US/CM)	(DEG C)			SECOND	(US/CM)	(DEG C)
		(00061)	(00095)	(00010)			(00061)	(00095)	(00010)
OCT					MAR				
07	1825	89	2660	15.5	01	1010	32	3710	7.5
28	1300	83	2970	11.0	APR				
NOV					12	1715	167	1190	17.0
23	1300	84	2920	5.5	MAY				
DEC					30	1630	16	3210	28.0
07	1410	54	3490	2.0	AUG				
JAN					01	1505	7.7	3160	30.0
18	1420	40	3650	6.5	15	1625	7.3	2010	32.0
FEB					30	1455	16	1700	27.0
01	1535	36	3580	3.5					

GREAT SAND DUNES NATIONAL MONUMENT WATER-QUALITY STUDY

Water-quality data and discharges collected beginning February 1999 at selected sites at the Great Sand Dunes National Monument. These data will be used to: 1) document water-quality conditions of all monument waters including perennial streams, seasonal streams, and interdunal ponds; and 2) use the data collected, where appropriate, to demonstrate eligibility for an 'Outstanding Waters Designation' for the monument's waters.

374946105353301 SAND CREEK AT NORTH BOUNDARY, AT GREAT SAND DUNES NATIONAL MONUMENT, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $37^{\circ}49^{\circ}46^{\circ}$, long $105^{\circ}35^{\circ}33^{\circ}$, in $NE^{1}/_{4}SW^{1}/_{4}$ sec.31, T.25 S., R.73 W., Saguache County, Hydrologic Unit 13010003, at Great Sand Dunes National Monument on left bank at 8 ft Parshall flume, 0.2 mi downstream from Cold Creek, about 0.2 mi upstream of Monument boundary and Ranger Station, and 8.3 mi northwest of the Monument entrance station.

PERIOD OF RECORD. -- May 1999 to September 2000 (discontinued).

REMARKS.--Un-ionized ammonia computations based on equations from U.S. Environmental Protection Agency, Quality Criteria for Water 1986 (Update 2): U.S. Environmental Protection Agency, Office of Water Regulations and Standards, EPA Report 440/5-86-001, variously paginated.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)		HARD- NESS TOTAL (MG/L AS CACO3) (00900)
MAY 25 SEP	1320	41		7.7	9.5	8.7	102	<1	К6	21
06	1300	4.6	76	8.1	15.3	7.9	104	K8	16	33
DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	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 25 SEP	6.37	1.18	23	0	18	19	3.2	33	<.010	.065
06	10.2	1.87	35	0	29	28	5.3	53	<.010	<.050
DA	NIT. GE AMMO DI. SOL TE (MG AS:	N, NIA AMMO S- UN VED IONI /L (MG/ N) AS	- DI ZED SOL L (UG N) AS	S- DIS NED SOL L/L (UG CD) AS	- DI VED SOL /L (UG CU) AS	D, NES S- DI VED SOL V/L (UG PB) AS	S- DI WED SOL L/L (UG MN) AS	M, SILV S- DI VED SOL J/L (UG SE) AS	S- DI VED SOL J/L (UG AG) AS	S- VED S/L ZN)
MAY 25 SEP 06										
06	00	∠ <.0	UI <.	T <t< td=""><td>< 1</td><td>. E2</td><td><2.</td><td>4 <1</td><td>. <1</td><td>-</td></t<>	< 1	. E2	<2.	4 <1	. <1	-

GREAT SAND DUNES NATIONAL MONUMENT WATER-QUALITY STUDY--Continued

374823105383901 SAND CREEK AT BACA GRANT BOUNDARY, AT GREAT SAND DUNES NATIONAL MONUMENT, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $37^{\circ}48^{\circ}23^{\circ}$, long $105^{\circ}38^{\circ}39^{\circ}$, in $NE^{1}/_{4}NW^{1}/_{4}$ sec.15, T.41 N., R.12 E., Saguache County, Hydrologic Unit 13010003, at Great Sand Dunes National Monument, just south of the Baca Grant Monument boundary, 0.3 mi east of the extreme west Monument boundary, approximately 4.5 mi downstream from Cold Creek, and 9.1 mi northwest of the Monument entrance station.

PERIOD OF RECORD. -- May 1999 to September 2000 (discontinued).

REMARKS.--Un-ionized ammonia computations based on equations from U.S. Environmental Protection Agency, Quality Criteria for Water 1986 (Update 2): U.S. Environmental Protection Agency, Office of Water Regulations and Standards, EPA Report 440/5-86-001, variously paginated.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
MAY 23	1555	E5.1	7.9	25.3	6.5	100	52	20	6.15
DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	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 23	1.20	21	0	19	17	3.5	39	<.010	.059
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	AMMONIA UN- IONIZED (MG/L AS N) (00619)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
MAY 23	.003	<.001	<.1	E1	<1	7	<2.4	<1	7

GREAT SAND DUNES NATIONAL MONUMENT WATER-QUALITY STUDY--Continued

08234200 MOSCA CREEK NEAR MOSCA, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $37^{\circ}44^{\circ}05^{\circ}$, long $105^{\circ}30^{\circ}27^{\circ}$, in $NE^{1}/_{4}NW^{1}/_{4}$ sec.2, T.27 S., R.73 W., Alamosa County, Hydrologic Unit 13010003, at Great Sand Dunes National Monument, 0.1 mi downstream from east Monument boundary, 0.9 mi northeast of the Monument entrance station, and 21 mi east of Mosca (revised).

DRAINAGE AREA.--3.67 \min^2 .

PERIOD OF RECORD.--February 1999 to September 2000 (discontinued).

REMARKS.--Un-ionized ammonia computations based on equations from U.S. Environmental Protection Agency, Quality Criteria for Water 1986 (Update 2): U.S. Environmental Protection Agency, Office of Water Regulations and Standards, EPA Report 440/5-86-001, variously paginated.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
FEB 23	1200	.31	192	8.0	1.7	11.1	106			83
MAY 22	1635	.84	154	8.1	9.6	8.2	98	<1	К8	67
JUN 01 13 28 JUL	1400 1400 1430	.69 .44 .34	152 174 180	7.8 E7.9 7.8	10.6 11.7 12.6	8.2 8.0 7.9	100 100 100	<1 <1 K5	39 40 57	
10 25 AUG	1650 1430	.18 .15	198 205	8.0 7.8	15.3 11.3	7.2 9.1	97 111	K2 52	52 260	83
10 23 SEP	0900 1430	.14 .15	224 216	7.7 7.9	11.5 15.1	7.8 7.3	96 101	62 K12	210 58	
07	1225	.15	223	8.2	13.0	7.7	99	K1	K17	95
DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	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)
FEB 23	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	BONATE WATER DIS IT FIELD MG/L AS HCO3	BONATE WATER DIS IT FIELD MG/L AS CO3	WATER UNFLTRD FET FIELD MG/L AS CACO3	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	DIS- SOLVED (MG/L AS SO4)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	GEN, NITRITE DIS- SOLVED (MG/L AS N)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
FEB 23 MAY 22	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
FEB 23 MAY 22 JUN 01 13 28	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
FEB 23 MAY 22 JUN 01	DIS- SOLVED (MG/L AS CA) (00915) 24.0 19.2	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.50 4.69	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	WATER UNFLIRD FET FIELD MG/L AS CACO3 (00410) 88 70	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 88 71	DIS- SOLVED (MG/L AS SO4) (00945) 12.2 7.2	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) <.050
FEB 23 MAY 22 JUN 01 13 28 JUL 10 25	DIS- SOLVED (MG/L AS CA) (00915) 24.0 19.2 24.0	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.50 4.69	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 107 86 106	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 0 0 0	WATER UNFLITRD FET FIELD MG/L AS CACO3 (00410) 88 70 83	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 88 71 87	DIS- SOLVED (MG/L AS SO4) (00945) 12.2 7.2 9.4	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 119 105 126	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) <.050 <.050

GREAT SAND DUNES NATIONAL MONUMENT WATER-QUALITY STUDY--Continued

08234200 MOSCA CREEK NEAR MOSCA, CO--Continued

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	AMMONIA UN- IONIZED (MG/L AS N) (00619)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
FEB									
23	<.002	<.001	<.1	<1	<1	E1	<2.4	<1	<1
MAY									
22	.002	<.001	<.1	<1	<1	3	<2.4	<1	3
JUN									
01									
13									
28									
JUL			_	_	_	_		_	_
10	<.002	<.001	<.1	E1	<1	3	<2.4	<1	2
25									
AUG									
10									
23									
SEP									
07	.007	<.001	<.1	<1	<1	3	<2.4	<1	<1

GREAT SAND DUNES NATIONAL MONUMENT WATER-QUALITY STUDY--Continued

374348105304001 MORRIS GULCH SPRING AT GREAT SAND DUNES NATIONAL MONUMENT, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $37^{\circ}43^{\circ}48^{\circ}$, long $105^{\circ}30^{\circ}40^{\circ}$, in $SW^{1}/_{4}NW^{1}/_{4}$ sec.2, T.27 S., R.73 W., Alamosa County, Hydrologic Unit 13010003, at Great Sand Dunes National Monument, 0.5 mi downstream from east Monument boundary, and 0.6 mi northeast of Monument entrance station

PERIOD OF RECORD. -- February 1999 to September 2000 (discontinued).

REMARKS.--Un-ionized ammonia computations based on equations from U.S. Environmental Protection Agency, Quality Criteria for Water 1986 (Update 2): U.S. Environmental Protection Agency, Office of Water Regulations and Standards, EPA Report 440/5-86-001, variously paginated.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
FEB 23	1500	.01	279	8.1	2.7	10.4	102			140
MAY 24	1110	.01	308	8.2	16.4	8.6	119	K1	K130	150
JUN 01 13 28 JUL	1430 1500 1500	.03 .03 .01	276 292 321	7.8 E8.0 8.0	20.8 19.8 21.9	6.6 6.3 6.5	100 94 100	K2 K2 66	580 K12000 5200	
10 26	1440 0920	.00	309 312	8.4 7.8	23.8 13.2	5.9 7.8	95 100	32 54	2100 K1200	140
AUG 10	0930	.00	327	7.8	16.0	7.6	103	390	3900	
DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	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)
FEB 23	41.3	7.81	172	0	140	141	12.2	174	<.010	<.050
MAY 24	45.4	8.23	77	0	65	63	12.1	195	<.010	<.050
JUN 01 13 28	 	 	 	 	 	 	 	 	 	
10 26 AUG	44.6	7.86	174	3	146	148	7.0	192 	<.010	<.050
10										
DAT	NIT GE AMMO DI SOL E (MG AS 1	N, NIA AMMO S- UN VED IONI /L (MG/ N) AS	- DI ZED SOL L (UG N) AS	S- DIS VED SOL /L (UG CD) AS	- DI VED SOL /L (UG CU) AS	S- DI VED SOL /L (UG PB) AS	E, NIU S- DI VED SOL //L (UG MN) AS	M, SILV S- DI VED SOL :/L (UG SE) AS	S- DI VED SOL J/L (UG AG) AS	S- VED /L ZN)
FEB 23 MAY	.0	19 <.0	01 <.	1 <1	<1	. 8	<2.	4 <1	<1	
24 JUN	.0	03 <.0	01 <.	1 <1	<1	. 11	<2.	4 <1	. 5	
01 13 28	-						 			- - -
JUL 10 26 AUG			01 <.	1 <1	- <1	. 6	<2.	4 <1	. 6	-
10	-									-

GREAT SAND DUNES NATIONAL MONUMENT WATER-QUALITY STUDY--Continued

374507105300201 BUCK CREEK AT BOUNDARY, AT GREAT SAND DUNES NATIONAL MONUMENT, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 37°45'07", long 105°30'02", in SE¹/₄SE¹/₄ sec.26, T.26 S., R.73 W., Saguache County, Hydrologic Unit 13010003, at Great Sand Dunes National Monument, 0.2 mi downstream from east Monument boundary, and 2.1 mi northeast of Monument entrance station.

PERIOD OF RECORD. -- February 1999 to September 2000 (discontinued).

REMARKS.--Un-ionized ammonia computations based on equations from U.S. Environmental Protection Agency, Quality Criteria for Water 1986 (Update 2): U.S. Environmental Protection Agency, Office of Water Regulations and Standards, EPA Report 440/5-86-001, variously paginated.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
FEB 22	1610	.08	221	7.8	3.7	==				99
MAY 23	1000	.10	229	8.1	8.7	8.0	93	К4	К9	100
JUN 01	1315	.11	221	7.6	12.0	7.6	95	E140	60	
13	1330	.08	234	E7.6	12.4	7.3	93	<2	25	
28 JUL	1330	.05	250	7.6	13.7	7.1	93	K4	39	
12	1140	.05	245	7.9	13.6	7.2	92	K10	37	110
25 AUG	1345	.03	258	7.4	14.5	7.0	93	20	25	
09	1415	.05	260	7.3	16.4	5.9	81	6	100	
24 SEP	1230	.02	263	7.4	14.5	6.7	88	2	42	
07	1005	.02	257	7.6	10.7	7.4	89	K2	27	110
DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	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)
DATE FEB 22	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	BONATE WATER DIS IT FIELD MG/L AS HCO3	BONATE WATER DIS IT FIELD MG/L AS CO3	WATER UNFLTRD FET FIELD MG/L AS CACO3	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	DIS- SOLVED (MG/L AS SO4)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	GEN, NITRITE DIS- SOLVED (MG/L AS N)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
FEB 22 MAY 23	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
FEB 22 MAY 23 JUN	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
FEB 22 MAY 23 JUN 01	DIS- SOLVED (MG/L AS CA) (00915) 28.1 29.8	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 6.87 7.26	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 127 132	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	WATER UNFLIRD FET FET FIELD MG/L AS CACO3 (00410) 103 107	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 104 108	DIS- SOLVED (MG/L AS SO4) (00945) 11.5 10.3	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) <.050
FEB 22 MAY 23 JUN 01 13 28	DIS- SOLVED (MG/L AS CA) (00915) 28.1 29.8	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	WATER UNFLIRD FET FIELD MG/L AS CACO3 (00410) 103 107	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 104 108	DIS- SOLVED (MG/L AS SO4) (00945) 11.5	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) <.050 <.050
FEB 22 MAY 23 JUN 01 13 28 JUL 12	DIS- SOLVED (MG/L AS CA) (00915) 28.1 29.8 31.5	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 6.87 7.26	BONATE WATER WATER DIS IT FIELD MG/L AS HCO3 (00453) 127 132 139	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 0 0 0	WATER UNFLITRD FET FIELD MG/L AS CACO3 (00410) 103 107 113	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 104 108 114	DIS- SOLVED (MG/L AS SO4) (00945) 11.5 10.3	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 134 147 155	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) <.050 <.050
FEB 22 MAY 23 JUN 01 13 28 JUL 12 25	DIS- SOLVED (MG/L AS CA) (00915) 28.1 29.8	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 6.87 7.26	BONATE WATER WATER DIS IT FIELD MG/L AS HC03 (00453) 127 132	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 0	WATER UNFLIRD FET FET FIELD MG/L AS CACO3 (00410) 103 107	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 104 108	DIS- SOLVED (MG/L AS SO4) (00945) 11.5 10.3	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) <.050
FEB 22 MAY 23 JUN 01 13 28 JUL 12 25 AUG 09	DIS- SOLVED (MG/L AS CA) (00915) 28.1 29.8 31.5	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 6.87 7.26 7.58	BONATE WATER WATER DIS IT FIELD MG/L AS HCO3 (00453) 127 132 139 139	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 0 0 0	WATER UNFLITRD FET FIELD MG/L AS CACO3 (00410) 103 107 113	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 104 108 114	DIS- SOLVED (MG/L AS SO4) (00945) 11.5 10.3 9.3	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 134 147 155 	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) <.050 <.050
FEB 22 MAY 23 JUN 01 13 28 JUL 12 25	DIS- SOLVED (MG/L AS CA) (00915) 28.1 29.8 31.5	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 6.87 7.26	BONATE WATER WATER DIS IT FIELD MG/L AS HCO3 (00453) 127 132 139	BONATE WATER WATER DIS IT FIELD MG/L AS CO3 (00452) 0 0 0 0	WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410) 103 107 113	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 104 108 114	DIS- SOLVED (MG/L AS SO4) (00945) 11.5 10.3 9.3	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 134 147 155	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010 <.010	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) <.050 <.050 <.050

GREAT SAND DUNES NATIONAL MONUMENT WATER-QUALITY STUDY--Continued

374507105300201 BUCK CREEK AT BOUNDARY, AT GREAT SAND DUNES NATIONAL MONUMENT, CO--Continued

	NITRO-								
	GEN,					MANGA-	SELE-		
	AMMONIA	AMMONIA	CADMIUM	COPPER,	LEAD,	NESE,	NIUM,	SILVER,	ZINC,
	DIS-	UN-	DIS-						
	SOLVED	IONIZED	SOLVED						
DATE	(MG/L	(MG/L	(UG/L						
	AS N)	AS N)	AS CD)	AS CU)	AS PB)	AS MN)	AS SE)	AS AG)	AS ZN)
	(00608)	(00619)	(01025)	(01040)	(01049)	(01056)	(01145)	(01075)	(01090)
FEB									
22	<.002	<.001	<.1	<1	<1	30	<2.4	<1	<1
MAY	-1002					30	-2.1		
23	<.002	<.001	<.1	<1	<1	38	<2.4	<1	4
JUN									
01									
13									
28									
JUL									
12	.004	<.001	<.1	<1	<1	101	<2.4	<1	1
25									
AUG									
09									
24									
SEP			_	_	_			_	_
07	.010	<.001	<.1	<1	<1	166	<2.4	<1	<1

GREAT SAND DUNES NATIONAL MONUMENT WATER-OUALITY STUDY--Continued

374752105300801 MEDANO CREEK NEAR MOSCA, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $37^{\circ}47^{\circ}52^{\circ}$, long $105^{\circ}30^{\circ}08^{\circ}$, in $SW^{1}/_{4}SE^{1}/_{4}$ sec.11, T.26 S., R.73 W., Saguache County, Hydrologic Unit 13010003, at Great Sand Dunes National Monument, 0.4 mi downstream from east Monument boundary, and 5.0 mi north of Monument entrance station, and 22 mi northeast of Mosca (revised).

DRAINAGE AREA.--15 mi².

05

12 4

3 56

60

PERIOD OF RECORD.--April 1993 to September 1996 (Rio Grande National Water-Quality Assessment Program station), February 1999 to September 2000 (discontinued).

REMARKS.--Un-ionized ammonia computations based on equations from U.S. Environmental Protection Agency, Quality Criteria for Water 1986 (Update 2): U.S. Environmental Protection Agency, Office of Water Regulations and Standards, EPA Report 440/5-86-001, variously paginated.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DIS-PΗ OXYGEN, STREP-CHARGE. SPE-WATER DTS-FORM. TOCOCCT HARD-INST. CIFIC SOLVED WHOLE FECAL, FECAL, NESS CON-CIRTS TEMPER-OXYGEN. (PER-0.7 KF AGAR TOTAL. DUCT-FEET (STAND-ATURE DIS-CENT UM-MF (COLS. (MG/L DATE TIME PER ANCE ARD WATER SOLVED SATUR-(COLS / PER AS SECOND (US/CM) UNITS) (MG/L) 100 ML) 100 ML) CACO3) (DEG C) ATION) (00061) (00095)(00400) (00010) (00300)(00301) (31625) (31673) (00900) FEB 7.2 94 1.0 11.8 113 42 1340 1.8 22... MAY 22... 1300 7.2 76 8.0 14.0 7.7 102 <1 K140 33 MIT 7.7 130 1200 6.6 68 7.6 13.2 100 01... K4 13... 1230 84 E7.7 15.7 7.2 400 101 --28... 1230 3.3 89 7.8 16.9 7.2 K9 270 JUL 11... 2.0 100 23.7 97 1545 8.1 6.0 90 44 25... 1245 3.0 98 7.7 18.7 6.9 100 15 160 AUG 09... 7.7 1230 109 101 72 7.2 77 --23... 1330 2.4 90 17.4 100 10 SEP 05... 1510 17.0 1.8 105 8.0 7.1 100 к8 81 46 BICAR-CAR-ANC ALKA-SOLIDS, NITRO-NITRO-MAGNE-BONATE BONATE WATER LINITY RESTRIE GEN. GEN. CALCIUM WATER UNFLTRD WAT DIS SULFATE AT 180 NO2+NO3 SIUM, WATER NITRITE DTS-DTS-DIS IT DIS IT FET TOT IT DTS-DEG. C DTS-DTS-SOLVED SOLVED FIELD FIELD FIELD FIELD SOLVED DIS-SOLVED SOLVED (MG/L AS CA) (MG/L AS MG) MG/L AS HCO3 MG/L AS CO3 MG/L AS CACO3 MG/L AS CACO3 (MG/L AS SO4) (MG/L AS N) DATE SOLVED (MG/L (MG/L) AS N) (00915)(00925)(00453) (00452)(00410) (39086)(00945)(70300)(00613)(00631) FEB 11.5 3.34 56 0 46 3.6 59 <.010 .074 22... 46 MAY 22... 8.58 2.69 42 0 35 34 2.7 61 <.010 <.050 JUIN 01... 13... --___ ___ ___ __ ___ --28... 12.0 3.39 56 0 47 46 74 < .010 < .050 11... 2.3 25... AUG 09... ------__ --23... SEP

Ω

48

49

2 5

77

< 010

< 050

GREAT SAND DUNES NATIONAL MONUMENT WATER-QUALITY STUDY--Continued

374752105300801 MEDANO CREEK NEAR MOSCA, CO--Continued

	NITRO- GEN, AMMONIA DIS- SOLVED	AMMONIA UN- IONIZED	CADMIUM DIS- SOLVED	COPPER, DIS- SOLVED	LEAD, DIS- SOLVED	MANGA- NESE, DIS- SOLVED	SELE- NIUM, DIS- SOLVED	SILVER, DIS- SOLVED	ZINC, DIS- SOLVED
DATE	(MG/L AS N) (00608)	(MG/L AS N) (00619)	(UG/L AS CD) (01025)	(UG/L AS CU) (01040)	(UG/L AS PB) (01049)	(UG/L AS MN) (01056)	(UG/L AS SE) (01145)	(UG/L AS AG) (01075)	(UG/L AS ZN) (01090)
FEB									
22	<.002	<.001	<.1	<1	<1	10	<2.4	<1	<1
MAY									
22	<.002	<.001	<.1	<1	<1	7	<2.4	<1	3
JUN									
01									
13									
28									
JUL 11	.023	.001	<.1	E1	<1	13	<2.4	<1	3
25	.023	.001	·.·						
AUG									
09									
23									
SEP									
05	.005	<.001	<.1	<1	<1	7	<2.4	<1	<1

GREAT SAND DUNES NATIONAL MONUMENT WATER-QUALITY STUDY--Continued

374439105304901 MEDANO CREEK BELOW GARDEN CREEK AT GREAT SAND DUNES NATIONAL MONUMENT, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $37^{\circ}44^{\circ}39^{\circ}$, long $105^{\circ}30^{\circ}49^{\circ}$, in $NW^{1}/_{4}SW^{1}/_{4}$ sec.35, T.26 S., R.73 W., Alamosa County, Hydrologic Unit 13010003, at Great Sand Dunes National Monument, 0.1 mi downstream from Garden Creek, and 1.3 mi north of Monument entrance station.

PERIOD OF RECORD. -- February 1999 to September 2000 (discontinued).

REMARKS.--Un-ionized ammonia computations based on equations from U.S. Environmental Protection Agency, Quality Criteria for Water 1986 (Update 2): U.S. Environmental Protection Agency, Office of Water Regulations and Standards, EPA Report 440/5-86-001, variously paginated.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
FEB 23	0940	.40	104	7.6	.9	10.4	98			47
MAY 23	1145	E4.0	84	8.1				К4	27	32
JUN 02 14	0915 0900	3.3	86 108	7.8 E8.1	18.5 14.1	7.0 7.4	100 97	570 K1600	430 770	
DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	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)
FEB 23	12.7	3.76	63	0	52	52	4.5	67	<.010	.074
MAY 23	8.68	2.58	43	0	39	36	3.0	74	<.010	<.050
JUN 02 14	 			 		 	 	 	 	
DAT	DI SOL	N, NIA AMMC S- UN VED IONI //L (MG/ N) AS	I- DI ZED SOL L (UG N) AS	S- DIS WED SOI J/L (UG CD) AS	S- DI JVED SOI J/L (UG CU) AS	AD, NES S- DI LVED SOI B/L (UG PB) AS	IS- DI LVED SOL B/L (UG MN) AS	M, SILV S- DI VED SOL S/L (UG SE) AS	S- DI VED SOL G/L (UG AG) AS	S- WED J/L ZN)
FEB 23	<.0	02 <.0	01 <.	1 <1	. <1	. E1	<2.	4 <1	. <1	
MAY 23	<.0	02 -	- <.	1 E1	. <1	. 7	<2.	4 <1	. 2	
JUN 02 14		 	 	 	 	. <u> </u>	 	 	 	. <u> </u>

GREAT SAND DUNES NATIONAL MONUMENT WATER-QUALITY STUDY--Continued

374416105310501 MEDANO CREEK BELOW MOSCA CREEK AT GREAT SAND DUNES NATIONAL MONUMENT, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $37^{\circ}44'16"$, long $105^{\circ}31'05"$, in $NE^{1}/_{4}NE^{1}/_{4}$ sec.3, T.27 S., R.73 W., Alamosa County, Hydrologic Unit 13010003, at Great Sand Dunes National Monument, 0.1 mi downstream from Mosca Creek, and 0.8 mi north of Monument entrance station.

PERIOD OF RECORD. -- February 1999 to September 2000 (discontinued).

REMARKS.--Un-ionized ammonia computations based on equations from U.S. Environmental Protection Agency, Quality Criteria for Water 1986 (Update 2): U.S. Environmental Protection Agency, Office of Water Regulations and Standards, EPA Report 440/5-86-001, variously paginated.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

	W	ATER-QUAL	ITY DATA,	WATER YE	AR OCTOBE	R 1999 TC	SEPTEMBE	R 2000		
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
MAY 23	1225	4.7	95	8.1	21.0	6.5	99	K340	K1900	37
02 14 29	0930 0930 1030	3.7 .86 .14	94 132 192	7.8 E8.0 8.0	18.6 13.0 17.3	7.0 7.8 7.1	100 99 99	670 470 K4	360 710 140	
12	0945 0840	.10	202 207	8.1 7.8	20.0 15.7	7.1 7.4	103 100	88 470	420 500	84
AUG 10 23	0830 1215	.01	219 205	7.7 8.1	13.2 22.5	7.4 7.5	94 120	2500 180	3400 330	
SEP 05	1210	.01	225	8.4	23.4	6.7	105	80	490	94
DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	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 23 JUN	10.1	2.87	53	0	44	43	3.7	81	<.010	<.050
02 14										
29										
12 26	24.3	5.68 	110	0	89 	90 	9.2	129	<.010	<.050
AUG 10 23									 	
SEP 05	27.5	6.23	119	0	96	98	10.6	144	<.010	<.050
DAT	NIT GE AMMO DI SOL E (MG AS	N, NIA AMMO S- UN VED IONI /L (MG/ N) AS	- DI ZED SOL L (UG N) AS	S- DIS VED SOL /L (UG CD) AS	S- DI NVED SOL S/L (UG CU) AS	S- DI VED SOL J/L (UG PB) AS	E, NIU S- DI VED SOL (/L (UG MN) AS	M, SILV S- DI VED SOL J/L (UG SE) AS	S- DI LVED SOL G/L (UG AG) AS	S- WED J/L ZN)
MAY 23 JUN	.0	02 <.0	01 <.	1 3	<1	. 15	<2.	4 <1	. 3	:
02 14							 			:= :=
29										:= :=
JUL 12 26		05 <.0	01 <.	1 <1	. <1	. 16	<2.	4 <1	_ 2	!
AUG 10										· -
23 SEP	-									-
05	.0	07 .0	01 <.	1 <1	. <1	. 6	<2.	4 <1	<1	

GREAT SAND DUNES NATIONAL MONUMENT WATER-QUALITY STUDY--Continued

374447105301101 GARDEN CREEK AT BOUNDARY AT GREAT SAND DUNES NATIONAL MONUMENT, CO

WATER-QUALITY RECORDS

LOCATION (REVISED).--Lat $37^{\circ}44^{\circ}47^{\circ}$, long $105^{\circ}30^{\circ}05^{\circ}$, in $SE^{1}/_{4}NE^{1}/_{4}$ sec.35, T.26 S., R.73 W., Alamosa County, Hydrologic Unit 13010003, at Great Sand Dunes National Monument, 0.2 mi east of Pinyon Flats Campground, 1.0 mi upstream from mouth, and 1.9 mi northeast of Monument entrance station.

PERIOD OF RECORD. -- May 1999 to September 2000 (discontinued).

REMARKS.--Un-ionized ammonia computations based on equations from U.S. Environmental Protection Agency, Quality Criteria for Water 1986 (Update 2): U.S. Environmental Protection Agency, Office of Water Regulations and Standards, EPA Report 440/5-86-001, variously paginated.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
MAY 24	1020	.11	123	7.8	7.4	7.6	86	53	14.2
DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ANC WATER UNFLITED FET FIELD MG/L AS CACO3 (00410)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	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 24	4.24	67	0	55	55	5.4	94	<.010	<.050
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	AMMONIA UN- IONIZED (MG/L AS N) (00619)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
MAY 24	<.002	<.001	<.1	E1	<1	<2	<2.4	<1	3

GREAT SAND DUNES NATIONAL MONUMENT WATER-QUALITY STUDY--Continued

374623105295901 CASTLE CREEK AT BOUNDARY, AT GREAT SAND DUNES NATIONAL MONUMENT, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $37^{\circ}46'23"$, long $105^{\circ}29'59"$, in $SE^{1}/_{4}NE^{1}/_{4}$ sec.23, T.26 S., R.73 W., Saguache County, Hydrologic Unit 13010003, at Great Sand Dunes National Monument, at Monument boundary, 0.4 mi east of primitive road, 0.4 mi upstream from mouth, and 3.8 mi north of Monument entrance station.

PERIOD OF RECORD. -- May 1999 to September 2000 (discontinued).

REMARKS.--Un-ionized ammonia computations based on equations from U.S. Environmental Protection Agency, Quality Criteria for Water 1986 (Update 2): U.S. Environmental Protection Agency, Office of Water Regulations and Standards, EPA Report 440/5-86-001, variously paginated.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
MAY 22	1310	.00	140	8.1	12.1	7.9	100	63	17.5
DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	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 22	4.72	70	0	58	58	9.3	96	<.010	.061
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	AMMONIA UN- IONIZED (MG/L AS N) (00619)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
MAY 22	.002	<.001	<.1	<1	<1	3	<2.4	<1	5

GREAT SAND DUNES NATIONAL MONUMENT WATER-QUALITY STUDY--Continued

374825105302601 LITTLE MEDANO CREEK AT MOUTH, AT GREAT SAND DUNES NATIONAL MONUMENT, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $37^{\circ}48^{\circ}25^{\circ}$ (revised), long $105^{\circ}30^{\circ}26^{\circ}$, in $NE^{1}/_{4}NW^{1}/_{4}$ sec.11, T.26 S., R.73 W., Saguache County, Hydrologic Unit 13010003, at Great Sand Dunes National Monument, 1.2 mi upstream from mouth, and 5.8 mi north of Monument entrance station.

PERIOD OF RECORD. -- May 1999 to September 2000 (discontinued).

REMARKS.--Un-ionized ammonia computations based on equations from U.S. Environmental Protection Agency, Quality Criteria for Water 1986 (Update 2): U.S. Environmental Protection Agency, Office of Water Regulations and Standards, EPA Report 440/5-86-001, variously paginated.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
MAY									
22 JUL	1500	1.6	73	8.0	10.0	8.2	100	32	10.3
11 SEP	1500	.34	92	8.0	15.7	7.2	99	41	13.1
05	1420	.21	101	8.0	13.3	7.7	101	44	14.0
DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	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 22 JUL	1.60	40	0	33	33	3.0	56	<.010	.104
11	1.99	48	0	41	39	3.4	65	<.010	.070
SEP 05	2.19	54	0	44	44	3.6	74	<.010	.067
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	AMMONIA UN- IONIZED (MG/L AS N) (00619)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
MAY 22	.008	<.001	<.1	<1	<1	3	<2.4	<1	3
JUL 11	.004	<.001	<.1	<1	<1	11	<2.4	<1	2
SEP 05	.003	<.001	<.1	<1	<1	14	<2.4	<1	<1

GREAT SAND DUNES NATIONAL MONUMENT WATER-QUALITY STUDY--Continued

374927105331101 COLD CREEK AT BOUNDARY, AT GREAT SAND DUNES NATIONAL MONUMENT, CO

WATER-QUALITY RECORDS

LOCATION (REVISED).--Lat $37^{\circ}49^{\circ}27^{\circ}$, long $105^{\circ}33^{\circ}11^{\circ}$, in $SE^{1}/_{4}SE^{1}/_{4}$ sec.32, T.25 S., R.73 W., Saguache County, Hydrologic Unit 13010003, Great Sand Dunes National Monument, at Monument boundary, 2.5 mi upstream from mouth, and 7.2 mi north of Monument entrance station.

PERIOD OF RECORD. -- May 1999 to September 2000 (discontinued).

REMARKS.--Un-ionized ammonia computations based on equations from U.S. Environmental Protection Agency, Quality Criteria for Water 1986 (Update 2): U.S. Environmental Protection Agency, Office of Water Regulations and Standards, EPA Report 440/5-86-001, variously paginated.

Note: The folowing remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

DATE	TIME	CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
MAY 25	1220	1.9	90	8.0	9.9	8.8	106	41	12.8
DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	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 25	2.17	49	0	41	41	3.8	63	<.010	.214
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	AMMONIA UN- IONIZED (MG/L AS N) (00619)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
MAY 25	.003	<.001	<.1	E1	<1	<2	<2.4	<1	3

GREAT SAND DUNES NATIONAL MONUMENT WATER-QUALITY STUDY--Continued

374652105380401 WEST ELK SPRING POND AT GREAT SAND DUNES NATIONAL MONUMENT, CO

WATER-QUALITY RECORDS

LOCATION.--Lat $37^{\circ}46^{\circ}52^{\circ}$, long $105^{\circ}38^{\circ}04^{\circ}$, in $SW^{1}/_{4}SW^{1}/_{4}$ sec.23, T.41 N., R.12 E., Saguache County, Hydrologic Unit 13010003, at Great Sand Dunes National Monument, 0.5 mi east of west Monument boundary, 1.1 mi northwest of Indian Spring, and 7.4 mi northwest of the Monument entrance station.

PERIOD OF RECORD. -- February 1999 to September 2000 (discontinued).

REMARKS.--Un-ionized ammonia computations based on equations from U.S. Environmental Protection Agency, Quality Criteria for Water 1986 (Update 2): U.S. Environmental Protection Agency, Office of Water Regulations and Standards, EPA Report 440/5-86-001, variously paginated.

Note: The following remark codes may appear in the data tables below: e, estimated; E, estimated laboratory analysis value; K, based on non-ideal colony count.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	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)
FEB 24	0945	194	7.4	3.6	10.9	110	66	16.3	6.17
MAY 23	1500	228	8.1	22.5	14.4	223	75	18.7	6.85
JUL 11	1035	176	8.0	22.5	14.5	223	55	13.6	5.06
SEP 06	1450	209	8.5	22.7	18.9	291	61	15.1	5.70
DATE FEB 24 MAY 23 JUL 11 SEP	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410) 96 110 77	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 97 109 77	SULFATE DIS- SOLVED (MG/L AS SO4) (00945) 7.5 5.0	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) <.050 <.050	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.002
06	96	3	83	83	9.5	143	.010	.050	.192
ם	U ION ATE (MG AS	N- D IZED SO /L (U N) AS	IS- DI LVED SC G/L (U CD) AS	S- D DLVED SC G/L (U CU) AS	AD, NE IS- D LVED SO G/L (US PB) AS	SE, NI DIS- D DLVED SO IG/L (U S MN) AS	IS- D LVED SC G/L (U SE) AS	DIS- D DLVED SC JG/L (U B AG) AS	NC, IS- LVED IG/L S ZN) 090)
FEB 24.	<.	001 <	.1 <	1 <	1 1	.12 <2	.4 <	:1	1
MAY 23.	<.	001 <	.1 <	1 <	1	79 <2	.4 <	:1	3
JUL 11.	<.	001 <	.1 <	1 <	1 1	.50 <2	.4 <	:1	2
SEP 06.		025 <	.1 <	1 <	1	53 <2	.4 <	:1 <	:1

486 GROUND-WATER LEVELS

CHEYENNE COUNTY

384100102093000 SC01604208BBB

LOCATION.--Lat $38^\circ41^\circ13^\circ$, long $102^\circ09^\circ37^\circ$, in $NW^1/_4NW^1/_4NW^1/_4$ sec.8, T.16 S., R.42 W., Cheyenne County, Hydrologic Unit 10260004, 1 mi east and 11 mi south of Arapahoe, Colo.

AQUIFER.--High Plains Aquifer.

WELL CHARACTERISTICS. -- Drilled, unused well, diameter 16 in., depth 266 ft.

INSTRUMENTATION. -- Water-level recorder; intermittent measurements with chalked steel tape.

DATUM.--Elevation of land-surface datum is 4065 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.

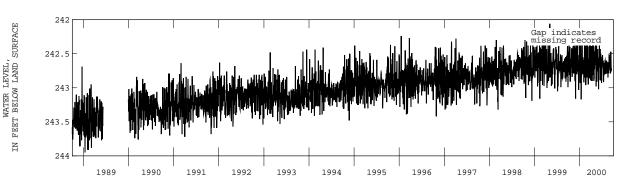
REMARKS.--Daily record is good, except for period of missing record. Missing record from Sept. 14-30, is due to the recorder being removed. This well is no longer being monitored with a continuous recorder.

PERIOD OF RECORD.--Daily record from September 1988 to September 2000 (discontinued). Intermittent measurements made from January 1970.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 241.96 ft below land-surface datum, May 4, 1999; lowest, 246.00 ft below land-surface datum, Jan. 1, 1970.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	242.47 242.65 242.75 242.77 242.66	242.84 242.78 242.51 242.44 242.67	242.35 242.25 242.36 242.78 242.76	242.13 242.31 242.60 242.76 242.57	242.79 242.67 242.77 242.92 242.59	242.81 242.74 242.84 242.63 242.37	242.75 242.56 242.85 242.65 242.39	242.72 242.64 242.56 242.53 242.45	242.84 243.02 242.84 242.86 242.88	242.55 242.55 242.57 242.52 242.58	242.71 242.61 242.65 242.66 242.60	242.69 242.66 242.68 242.72 242.74
6 7 8 9 10	242.39 242.35 242.66 242.70 242.81	242.78 242.70 242.39 242.43 242.64	242.51 242.39 242.68 242.80 242.53	242.93 242.76 242.44 242.29 242.41	242.65 242.85 242.61 242.32 242.35	242.50 242.40 242.50 242.80 242.89	242.44 242.72 242.90 242.46 242.50	242.44 242.39 242.58 242.66 242.36	242.68 242.59 242.43 242.30 242.53	242.62 242.67 242.68 242.60 242.67	242.66 242.62 242.62 242.76 242.79	242.67 242.79 242.56 242.47 242.55
11 12 13 14 15	242.77 242.63 242.78 242.46 242.40	242.70 242.74 242.63 242.79 242.62	242.57 242.70 242.38 242.55 242.76	242.50 242.66 243.17 242.92 242.73	242.52 242.26 242.37 242.47 242.63	242.95 242.79 242.76 242.60 242.57	242.90 242.78 242.54 242.29 242.46	242.27 242.76 242.98 242.79 242.63	242.69 242.67 242.54 242.70 242.43	242.76 242.91 242.91 242.82 242.64	242.72 242.70 242.69 242.66 242.77	242.60 242.76 242.71
16 17 18 19 20	242.84 242.91 242.72 242.83 242.70	242.48 242.25 242.30 242.70 242.40	242.62 242.76 242.52 242.60 242.76	242.83 242.72 242.69 242.58 242.63	242.85 242.49 242.81 242.96 242.81	242.81 242.62 242.63 242.47 242.36	242.68 242.65 242.36 242.41 242.81	242.43 242.21 242.80 242.91 242.78	242.68 242.89 242.78 242.50 242.61	242.64 242.81 242.76 242.80 242.74	242.76 242.85 242.82 242.63 242.63	
21 22 23 24 25	242.67 242.70 242.71 242.58 242.63	242.42 242.59 242.86 242.90 242.55	242.68 242.85 243.02 243.03 242.94	242.36 242.47 242.70 242.64 242.80	242.55 242.39 242.42 242.31 242.22	242.80 242.86 242.53 242.61 242.75	242.73 242.29 242.44 242.69 242.90	242.75 242.61 242.47 242.59 242.60	242.74 242.70 242.58 242.67 242.73	242.75 242.80 242.78 242.61 242.60	242.72 242.74 242.78 242.78 242.66	
26 27 28 29 30 31	242.55 242.48 242.52 242.42 242.78 242.73	242.41 242.70 243.02 243.16 242.74	242.90 242.72 242.56 242.27 242.44 242.40	242.55 242.70 242.75 242.75 242.71 242.60	242.71 242.85 242.45 242.59	242.60 242.47 242.36 242.55 242.77 242.89	242.77 242.87 242.70 242.47 242.72	242.43 242.76 242.74 242.58 242.56 242.67	242.93 242.88 242.88 242.67 242.63	242.63 242.65 242.75 242.79 242.79 242.79	242.57 242.51 242.54 242.68 242.55 242.63	
MEAN MAX MIN	242.65 242.91 242.35	242.64 243.16 242.25	242.63 243.03 242.25	242.63 243.17 242.13	242.59 242.96 242.22	242.65 242.95 242.36	242.62 242.90 242.29	242.60 242.98 242.21	242.70 243.02 242.30	242.70 242.91 242.52	242.68 242.85 242.51	



GROUND-WATER LEVELS 487

KIT CARSON COUNTY

391730102422000 SC00904706°CAC

LOCATION.--Lat 39°17'30", long 102°41'59", in $SW^1/_4NE^1/_4SW^1/_4$ 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.

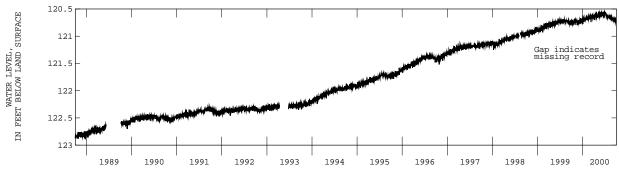
DATUM.--Elevation of land-surface datum is 4475 ft above sea level, from topographic map. Measuring point: top of $^1/_4$ -in. diameter hole in steel plate that covers well casing, 1.00 ft above land-surface datum.

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, 120.45 ft below land-surface datum, Apr. 18, 2000; lowest, 125.56 ft below land-surface datum, Jan. 20, 1976.

	DEP:	TH BELOW	LAND SURFA	ACE (WATER		(FEET), WA		OCTOBER	1999 TO SI	EPTEMBER 2	2000	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120.74	120.79	120.71	120.68	120.68	120.64	120.62	120.62	120.65	120.56	120.63	120.67
2	120.73	120.68	120.73	120.70	120.67	120.67	120.65	120.61	120.60	120.59	120.63	120.69
3	120.77	120.73	120.78	120.77	120.70	120.65	120.64	120.61	120.58	120.56	120.64	120.69
4	120.73	120.72	120.75	120.67	120.66	120.64	120.61	120.60	120.63	120.58	120.62	120.70
5	120.73	120.75	120.71	120.73	120.67	120.63	120.63	120.58	120.59	120.59	120.62	120.68
6	120.70	120.73	120.71	120.72	120.68	120.66	120.61	120.61	120.60	120.59	120.64	120.69
7	120.77	120.70	120.73	120.67	120.67	120.61	120.70	120.60	120.60	120.59	120.63	120.71
8	120.78	120.71	120.76	120.66	120.64	120.74	120.60	120.64	120.57	120.58	120.65	120.66
9	120.74	120.75	120.70	120.68	120.66	120.67	120.60	120.60	120.57	120.58	120.66	120.69
10	120.77	120.72	120.71	120.71	120.69	120.68	120.65	120.55	120.63	120.62	120.64	120.70
11 12 13 14 15	120.73 120.75 120.75 120.70 120.76	120.74 120.71 120.74 120.72 120.71	120.72 120.72 120.67 120.77 120.71	120.66 120.74 120.71 120.67 120.70	120.66 120.65 120.68 120.65 120.71	120.63 120.66 120.63 120.63 120.67	120.63 120.60 120.61 120.61 120.62	120.64 120.65 120.58 120.58 120.57	120.61 120.58 120.61 120.59 120.55	120.63 120.64 120.62 120.61 120.61	120.64 120.66 120.65 120.66	120.72 120.71 120.71 120.73 120.69
16	120.80	120.73	120.71	120.67	120.65	120.63	120.61	120.55	120.62	120.64	120.66	120.70
17	120.72	120.71	120.75	120.69	120.67	120.63	120.60	120.58	120.61	120.63	120.68	120.69
18	120.77	120.79	120.67	120.66	120.69	120.66	120.58	120.67	120.59	120.61	120.65	120.69
19	120.74	120.74	120.75	120.71	120.67	120.59	120.64	120.58	120.59	120.64	120.66	120.71
20	120.75	120.72	120.70	120.66	120.63	120.67	120.63	120.59	120.62	120.63	120.67	120.74
21	120.75	120.75	120.74	120.67	120.64	120.66	120.56	120.58	120.61	120.63	120.68	120.66
22	120.75	120.76	120.72	120.70	120.65	120.63	120.56	120.57	120.58	120.65	120.66	120.75
23	120.75	120.77	120.73	120.69	120.67	120.62	120.66	120.57	120.57	120.63	120.68	120.74
24	120.74	120.73	120.72	120.69	120.63	120.66	120.65	120.60	120.59	120.62	120.67	120.74
25	120.74	120.71	120.73	120.66	120.67	120.63	120.64	120.56	120.60	120.63	120.65	120.70
26 27 28 29 30 31	120.72 120.76 120.68 120.77 120.75 120.71	120.74 120.78 120.78 120.74 120.71	120.69 120.71 120.69 120.69 120.72 120.67	120.68 120.69 120.68 120.67 120.66	120.69 120.64 120.63 120.69	120.64 120.61 120.63 120.65 120.65 120.64	120.63 120.62 120.59 120.62 120.66	120.59 120.64 120.58 120.57 120.61 120.58	120.62 120.61 120.62 120.57 120.58	120.63 120.64 120.65 120.64 120.64	120.66 120.66 120.69 120.68 120.66 120.70	120.71 120.72 120.70 120.70 120.70
MEAN	120.74	120.74	120.72	120.69	120.67	120.65	120.62	120.60	120.60	120.62	120.66	120.70
MAX	120.80	120.79	120.78	120.77	120.71	120.74	120.70	120.67	120.65	120.65	120.70	120.75
MIN	120.68	120.68	120.67	120.66	120.63	120.59	120.56	120.55	120.55	120.56	120.62	120.66
120	0.5											13.4



EL PASO COUNTY

384056104415601 - SC01606505°CCB - FOUNTAIN NO. 3

 $\label{eq:location.--Lat 38°40'56", long 104°41'56" in NW1_4SW^1_4SW$^1_4SC.5, T.16 S., R.65 W., El Paso County, Hydrologic Unit 11020003. \\ AQUIFER.--Fountain Creek Alluvial Aquifer.$

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 1999 TO SEPTEMBER 2000

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (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	1000	1120	7.3	12.4	<.010	3.13	<.020	.017
09	1000	1150	7.3	12.7	<.010	2.59	<.020	.018

384108104420701 - SC01606506DAA - FOUNTAIN NO. 2

LOCATION.--Lat $38^{\circ}41^{\circ}08^{\circ}$, long $104^{\circ}42^{\circ}07^{\circ}$, $NE^{1}/_{4}NE^{1}/_{4}SE^{1}/_{4}$ 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. (24 in. prior to 1990), depth 57 ft, screened 42 to 57 ft.

DATUM.--Elevation of land-surface datum is 5,549.6 ft above sea level, from levels.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (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	0920	1300	7.4	12.5	<.010	2.87	<.020	.018
09	0925	1240	7.5	12.7	<.010	2.19	<.020	.023

384323104432201 - SC01506625AAB - WIDEFIELD NO. 5

AQUIFER. -- Widefield aquifer of Fountain Creek Alluvium.

WELL CHARACTERISTICS.--Municipal well, diameter 16 in., depth 47 ft, screened 26.5 to 46.5 ft.

 ${\tt DATUM.--Elevation\ of\ land-surface\ datum\ is\ 5,640\ ft\ above\ sea\ level,\ from\ topographic\ map.}$

PERIOD OF RECORD.--July 1982 and February to 1999 to current year.

			PH		NITRO-	NITRO-	NITRO-	PHOS-
		SPE-	WATER		GEN,	GEN,	GEN,	PHORUS
		CIFIC	WHOLE		NITRITE	NO2+NO3	AMMONIA	ORTHO,
		CON-	FIELD	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								
07	1140	884	7.3	13.5	<.010	8.01	<.020	.037
AUG								
09	1145	814	7.5	13.4	<.010	8.24	<.020	.042
05	1113	011	7.5	13.1	·. 010	0.21	1.020	.012

EL PASO COUNTY--Continued

384345104241401 - SC01506324ABB - SWEET WATER NO. 1

LOCATION.--Lat $38^{\circ}43'45"$, long $104^{\circ}24'14"$, in $NW^{1}/_{4}NW^{1}/_{4}SW^{1}/_{4}$ sec.24. T.15 S., R.63 W., El Paso County, Hydrologic Unit 11020004.

AQUIFER. -- Black Squirrel alluvial aquifer.

WELL CHARACTERISTICS.--Public-supply well, diameter 16 in., depth 158 ft, screened 111 to 115 ft.

DATUM.--Elevation of land-surface datum is 5,712 ft above sea level, from topographic map.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (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 09 AUG	1315	298	7.6	13.2	<.010	4.50	<.020	.056
10	1440	305	7.6	13.9	<.010	4.42	<.020	.060

384407104434801 - SC01506624BAD1 - WIDEFIELD NO. 4

LOCATION.--Lat $38^{\circ}44^{\circ}07^{\circ}$, long $104^{\circ}43^{\circ}48^{\circ}$, in $SE^{1}/_{4}NE^{1}/_{4}$ 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 5,685 ft above sea level, from topographic map.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

			PH		NITRO-	NITRO-	NITRO-	PHOS-
		SPE-	WATER		GEN,	GEN,	GEN,	PHORUS
		CIFIC	WHOLE		NITRITE	NO2+NO3	AMMONIA	ORTHO,
		CON-	FIELD	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								
07	1105	599	7.4	13.1	<.010	6.53	<.020	.015
AUG								
09	1105	578	7.1	13.1	<.010	7.43	<.020	.017

384433104440702 - SC01506613°CBD2 - U-14

LOCATION.--Lat 38°44'33", long 104°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, from levels.

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

		DEPTH		PH		NITRO-	NITRO-	NITRO-	PHOS-
		BELOW	SPE-	WATER		GEN,	GEN,	GEN,	PHORUS
		LAND	CIFIC	WHOLE		NITRITE	NO2+NO3	AMMONIA	ORTHO,
		SURFACE	CON-	FIELD	TEMPER-	DIS-	DIS-	DIS-	DIS-
		(WATER	DUCT-	(STAND-	ATURE	SOLVED	SOLVED	SOLVED	SOLVED
DATE	TIME	LEVEL)	ANCE	ARD	WATER	(MG/L	(MG/L	(MG/L	(MG/L
		(FEET)	(US/CM)	UNITS)	(DEG C)	AS N)	AS N)	AS N)	AS P)
		(72019)	(00095)	(00400)	(00010)	(00613)	(00631)	(00608)	(00671)
MAR									
07	1245	30.00	545	7.1	12.8	<.010	6.58	<.020	.018
AUG									
10	1630	34.00	563	7.1	13.2	<.010	7.35	<.020	.024

EL PASO COUNTY--Continued

384458104442601 - SC01506614AAD - SECURITY NO. 2

LOCATION.--Lat $38^{\circ}44'58"$, long $104^{\circ}44'26"$, in $SE^{1}/_{4}NE^{1}/_{4}$ 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 5,715 ft above sea level, from topographic map.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (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	1340	491	7.2	13.3	<.010	7.74	<.020	.020
09	1350	461	7.2	13.4	<.010	7.68	<.020	.014

384535104450801 - SC01506611BCD2 - VENETUCCI NO. 3

LOCATION.--Lat 38°45'35", long 104°45'08", in $\mathrm{SE}^{1}/_{4}\mathrm{SW}^{1}/_{4}\mathrm{NW}^{1}/_{4}$ 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 ft above sea level, from topographic map.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (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 09	1435	469	7.3	12.8	<.010	8.09	<.020	.061
AUG 09	1245	470	7.2	13.0	<.010	7.41	<.020	.060

$384604104451502 - SC01506602^{\circ}CCC2 - U-9$

 $\label{eq:location.--Lat 38°46'04", long 104°45'15", in SW^1/$_4$SW$^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 55 ft, screened 51 to 53 ft.

DATUM.--Elevation of land-surface datum is 5,773.8 ft above sea level, from levels.

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

		DEPTH		PH		NITRO-	NITRO-	NITRO-	PHOS-
		BELOW	SPE-	WATER		GEN,	GEN,	GEN,	PHORUS
		LAND	CIFIC	WHOLE		NITRITE	NO2+NO3	AMMONIA	ORTHO,
		SURFACE	CON-	FIELD	TEMPER-	DIS-	DIS-	DIS-	DIS-
		(WATER	DUCT-	(STAND-	ATURE	SOLVED	SOLVED	SOLVED	SOLVED
DATE	TIME	LEVEL)	ANCE	ARD	WATER	(MG/L	(MG/L	(MG/L	(MG/L
		(FEET)	(US/CM)	UNITS)	(DEG C)	AS N)	AS N)	AS N)	AS P)
		(72019)	(00095)	(00400)	(00010)	(00613)	(00631)	(00608)	(00671)
MAR									
07	1525	32.27	548	7.8	12.3	<.010	9.34	<.020	.074
AUG									
10	1225	33.33	595	7.8	13.8	<.010	10.5	<.020	.117

EL PASO COUNTY--Continued

384610104453501 - SC01506603DDB - SECURITY NO. 14

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, from levels.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (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	1415	603	7.3	13.3	<.010	7.07	<.020	.051
AUG 09	1425	588	7.2	13.0	<.010	7.96	<.020	.042

384617104455901 - SC01506603°CAD - STRATMOOR HILLS NO. 4

 $\label{eq:location.--Lat 38°46'17", long 104°45'59", in SE1_4NE^1_4SW$^1_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 12 in. (16 in. prior to 1998), depth 49 ft, screened 29 to 49 ft.

DATUM.--Elevation of land-surface datum is 5,775.4 ft above sea level, from levels.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

			PH		NTTRO-	NTTRO-	NTTRO-	PHOS-
		SPE-	WATER		GEN,	GEN,	GEN,	PHORUS
		CIFIC	WHOLE		NITRITE	NO2+NO3	AMMONIA	ORTHO,
		CON-	FIELD	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								
09	1150	720	7.5	13.3	<.010	9.44	<.020	.021
AUG								
09	1505	883	7.5	13.7	<.010	9.10	<.020	.025

384639104461401 - SC01506603BAC1 - MARS GAS

 $\label{eq:location.--Lat 38°46'39", long 104°46'14", in SW^1/$_4NE$^1/$_4NW$^1/$_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.

 ${\tt DATUM.--Elevation\ of\ land-surface\ datum\ is\ 5,820\ ft\ above\ sea\ level,\ from\ topographic\ map.}$

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

			PH		NITRO-	NITRO-	NITRO-	PHOS-
		SPE-	WATER		GEN,	GEN,	GEN,	PHORUS
		CIFIC	WHOLE		NITRITE	NO2+NO3	AMMONIA	ORTHO,
		CON-	FIELD	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								
09	1515	1040	7.3	12.3	<.010	5.04	<.020	.022
AUG								
10	1310	1140	7.2	12.7	<.010	7.52	<.020	.029

EL PASO COUNTY--Continued

384653104451901 - SC01506602BBB - TH-18

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 5,889.6 ft above sea level, from levels.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (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 09 AUG	1100	85.85	482	7.1	12.3	<.010	11.4	<.020	.071
10	1055	85.76	472	7.1	14.0	<.010	11.4	<.020	.070

384718104463701 - SC01406633DAA - BARNES WELL

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.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (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 09 AUG	1550	1210	7.2	10.8	<.010	9.52	<.020	.021
09	1315	1450	7.2	13.6	<.010	13.1	<.020	.018

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	Ву	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^0	kilometer
	Area	
acre	4.047×10^3	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi ²)	2.590×10^{0}	square kilometer
	Volume	
gallon (gal)	3.785×10^{0}	liter
gv.i. (g.i.i.)	3.785×10^{0}	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^3	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft ³)	2.832×10^{1}	cubic decimeter
,	2.832x10 ⁻²	cubic meter
cubic-foot-per-second day [(ft ³ /s) d]	2.447×10^3	cubic meter
• • • • • • • • • • • • • • • • • • • •	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	$1.233x10^3$	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
	Flow	
cubic foot per second (ft ³ /s)	2.832×10^{1}	liter per second
. , ,	2.832×10^{1}	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^{1}	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
	Mass	
ton (short)	9.072×10^{-1}	megagram or metric ton

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