

INTRODUCTION

The Water-Resources Discipline 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 database for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the U.S. Geological Survey, the data are published annually in the report series entitled "Water Resources Data—Colorado."

This year's report includes records on surface water in the State. Specifically, it contains: discharge records for 312 gaging stations, stage and contents of 1 lake and reservoir, discharge measurements for 1 partial-record low-flow station and 1 miscellaneous site, and peak-flow information for 22 crest-stage partial-record stations. Three pertinent stations operated by bordering states, and 34 stations operated by the Colorado Division of Water Resources are included in this report. Locations of lake and surface-water stations and surface-water-quality stations in the Colorado Data Program are shown in figure 1 and locations of crest-stage partial-record stations are shown in figure 2. The data in this report represent that part of the National Water Information 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, or many of these water-supply papers (and the reports mentioned below) may be accessed from <http://infotrek.er.usgs.gov/pubs/>

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-04-1.**" These water-data reports are also available for sale, in paper copy or electronic media, from the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161, or online at: <http://www.ntis.gov/>

Additional information for ordering specific reports may be obtained from the Director of the USGS Colorado Water Science Center at the address given on the back of the title page or by telephone, (303) 236-4882.

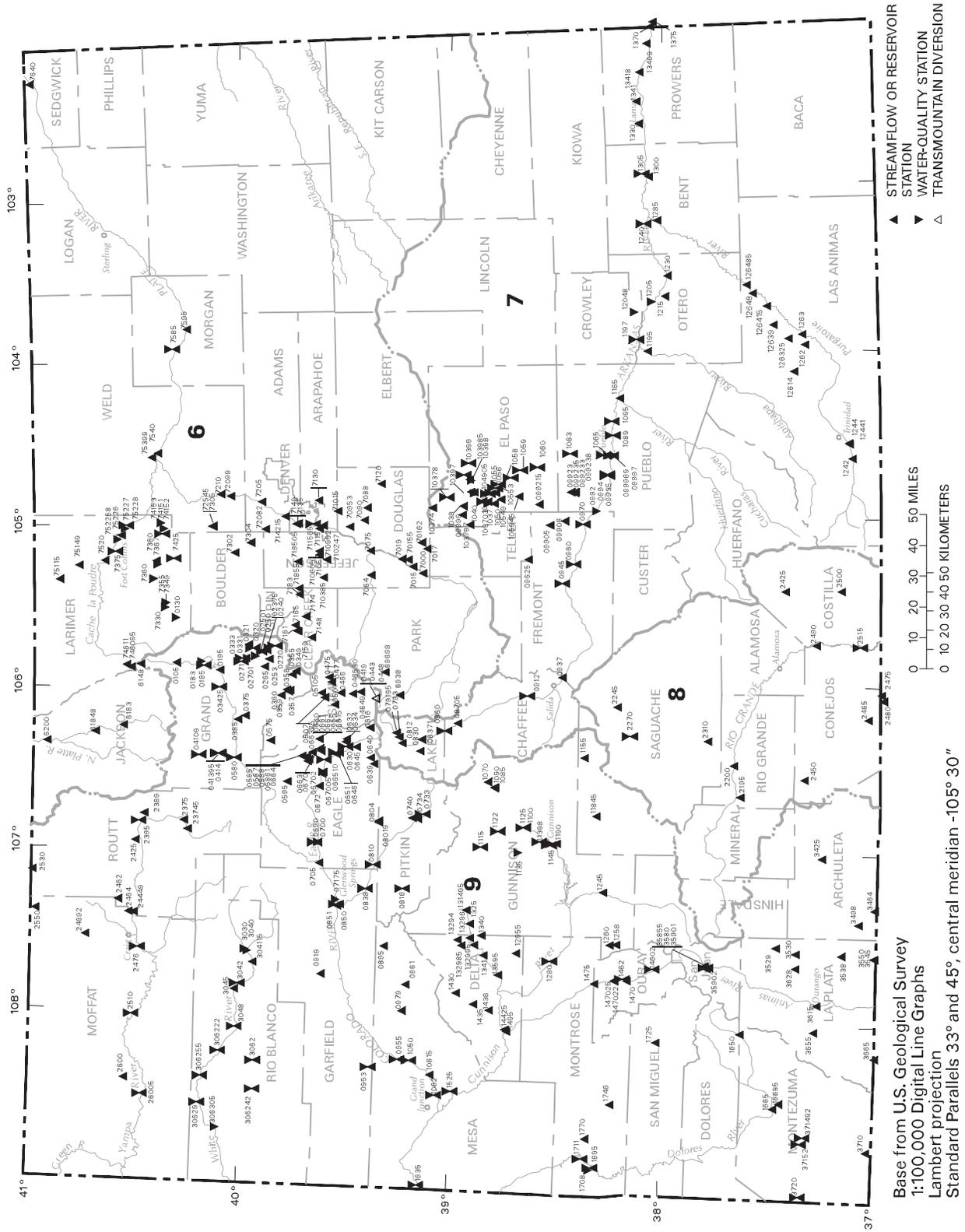


Figure 1. Map showing locations of lake and surface-water stations and surface-water-quality stations in the Colorado Data Program.

Base from U.S. Geological Survey
1:100,000 Digital Line Graphs
Lambert projection
Standard Parallels 33° and 45°, central meridian -105° 30"

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 2004 water year are:

Arapahoe County Water and Wastewater Authority.
 Arkansas River Compact Administration.
 Centennial Water and Sanitation District.
 Cherokee Metropolitan District.
 City and County of Denver, Board of Water Commissioners.
 City of Aurora.
 City of Black Hawk.
 City of Boulder.
 City of Brush.
 City and County of Broomfield.
 City of Colorado Springs.
 City of Craig.
 City of Englewood.
 City of Fort Collins.
 City of Fort Morgan.
 City of Glendale.
 City of Golden.
 City of Gunnison.
 City of Idaho Springs.
 City of Lakewood.
 City of Longmont.
 City of Louisville.
 City of Loveland.
 City of Pueblo.
 City of Westminster.
 Clear Creek Board of County Commissioners.
 Colorado Department of Public Health and Environment.
 Colorado Division of Parks and Outdoor Recreation.
 Colorado Division of Water Resources.
 Colorado River Water Conservation District.
 Colorado Springs Utilities.
 Colorado Water Conservation Board.
 Crested Butte South Metropolitan District.
 Custer County.
 Delta County Board of County Commissioners.
 Douglas County.
 Eagle County Board of Commissioners.
 Eagle River Water and Sanitation District.
 East Grand County Water-Quality Board.
 El Paso County.
 Evergreen Metropolitan District.
 Fountain Valley Authority.
 Gilpin County.
 Grand County.
 Hinsdale County.
 Jefferson County Board of County Commissioners.
 La Plata County.
 Lower Fountain Water-Quality Management Association.
 Meeker Sanitation District.
 Metro Wastewater Reclamation District.
 Mount Crested Butte Water and Sanitation District.
 North Front Range Water Quality Planning Association.
 Northern Colorado Water Conservancy District.
 Plum Creek Wastewater Authority.
 Pueblo Board of Water Works.
 Pueblo County.
 Pueblo West Metropolitan District.
 Rio Blanco County Board of County Commissioners.
 Rio Grande Water Conservation District.
 Southeastern Colorado Water Conservancy District.
 Southern Ute Indian Tribe.
 Southwestern Colorado Water Conservation District.
 St. Charles Mesa Water District.
 Teller–Park Soil Conservation District.
 Town of Basalt.
 Town of Breckenridge.
 Town of Collbran.
 Town of Crested Butte.
 Town of Georgetown.
 Town of Hotchkiss.
 Town of Meeker.
 Town of Palmer Lake.
 Town of Paonia.
 Town of Rangely.
 Town of Rico.
 Trinchera Water Conservancy District.
 Upper Arkansas River Water Conservancy District.
 Upper Eagle Regional Water Authority.
 Upper Gunnison River Water Conservancy District.
 Upper Yampa Water Conservancy District.
 Urban Drainage and Flood Control District.
 Western State College of Colorado.
 Wyoming State Engineer.
 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; and U.S. Forest Service. Organizations that supplied data are acknowledged in station descriptions.

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, hydrologic-station records in USGS reports have been listed in order of downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary entering between two main-stream stations is listed between those stations. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is located with respect to the stream to which it is immediately tributary is indicated by an indentation in that list of stations in the front of this report. Each indentation represents one rank. This downstream order and system of indentation indicates which stations are on tributaries between any two stations and the rank of the tributary on which each station is located.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These station numbers are in the same downstream order used in this report. In assigning a station number, 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 composed of both types of stations. Gaps are consecutive. The complete 8-digit (or 10-digit) number for each station such as 09004100, which appears just to the left of the station name, includes a 2-digit part number "09" plus the 6-digit (or 8-digit) downstream order number "004100." In areas of high station density, an additional two digits may be added to the station identification number to yield a 10-digit number. The stations are numbered in downstream order as described above between stations of consecutive 8-digit numbers.

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The USGS well and miscellaneous site-numbering system is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The site number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, and the next 7 digits denote degrees, minutes, and seconds of longitude; the last 2 digits are a sequential number for wells within a 1-second grid. In the event that the latitude-longitude coordinates for a well and miscellaneous site are the same, a sequential number such as "01," "02," and so forth, would be assigned as one would for wells (see fig. 3). The 8-digit, downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken

A local well number also may be provided for USGS wells. Local well numbers (also called land-net locations) are based on the U.S. Bureau of Land Management system of land subdivision and indicate the position of the well by township, range, section, and position within the section. The land-net system indicates location by a combination of letters and numbers as described in the following paragraphs.

The first letter of the local well number indicates the survey used to determine the well location. Colorado is governed by three surveys: the Sixth Principal Meridian Survey (S), the New Mexico Survey (N), and the Ute Survey (U). Costilla County is not included in any of the above surveys. For wells in Costilla County, the convention of the Costilla County Assessor is followed 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). A survey is subdivided into four quadrants

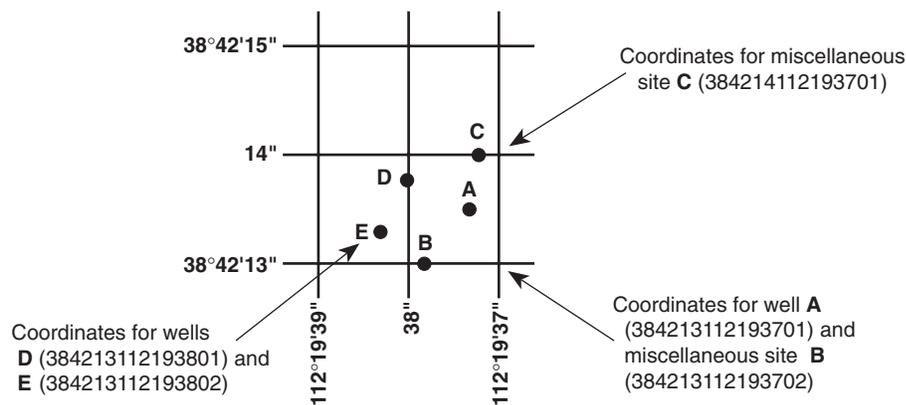


Figure 3. Site-numbering system for wells, springs, and miscellaneous sites.

formed by the intersection of the baseline and the principal meridian. The second letter of the local well number designates the survey 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 miles by townships and is divided in the east-west direction every 6 miles by ranges. The 36-mi² area described by the township and range designations is subdivided into 1-mi² areas called sections, which are sequentially numbered.

Following the survey letter designations, a local well number contains three numbers followed by two to four letters. The first number indicates the township, the second number indicates the range, and the third number indicates the section in which the well is located. Letters following the township, range, and section numbers indicate the well location within a 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 number as follows: A indicates the northeast quarter, B the northwest, C the southwest, and D the southeast. The quarter section is subdivided into quarter-quarter sections, and the 40-acre area is designated in the same manner by the second letter following the section number. 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. The sequence number follows the three-letter quarter-quarter designation as it is necessary. For example, local well number SC-003-049-21 CCB2 indicates a well is located in the northwest quarter of the southwest quarter of the southwest quarter of section 21, township 3 south, range 49 west in the southwest quadrant of the Sixth Principal Meridian Survey and was the second well inventoried in the quarter-quarter-quarter section.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 61 sites in small drainage basins in 39 States that was established in 1963 to provide consistent streamflow data representative of undeveloped watersheds nationwide, and from which data could be analyzed on a continuing basis for use in comparison and contrast with conditions observed in basins more obviously affected by human activities. At selected sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the effects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program may be accessed from <http://water.usgs.gov/hbn/>.

National Stream-Quality Accounting Network (NASQAN) is a network of sites used to monitor the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations was operated in the Mississippi, Columbia, Colorado, and Rio Grande River basins. For the period 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia Rivers 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 (NAWQA) Program; (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 may be accessed from <http://water.usgs.gov/nasqan/>.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) is a network of monitoring sites that 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 this network of 250 precipitation-chemistry monitoring sites. The USGS supports 74 of these 250 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 data from the individual sites, may be accessed from <http://bqs.usgs.gov/acidrain/>.

The USGS National Water-Quality Assessment (NAWQA) Program 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; to provide an

improved understanding of the primary natural and human factors affecting these observed conditions and trends; and to provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 42 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 is 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 water-resources managers to use in making decisions 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 semi-annually 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 may be accessed from <http://water.usgs.gov/nawqa/>.

The USGS National Streamflow Information Program (NSIP) is a long-term program with goals to provide framework streamflow data across the Nation. Included in the program are creation of a permanent Federally funded streamflow network, research on the nature of streamflow, regional assessments of streamflow data and databases, and upgrades in the streamflow information delivery systems. Additional information about NSIP may be accessed from <http://water.usgs.gov/nsip/>.

EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS

Data Collection and Computation

The base data collected at gaging stations (figs. 1 and 2) consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and volume of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily

flow or volume of water in storage. Records of stage are obtained from a water-stage recorder that is either downloaded electronically in the field to a laptop computer or similar device or is transmitted using telemetry such as GOES satellite, land-line or cellular-phone modems, or by radio transmission. Measurements of discharge are made with a current meter or acoustic Doppler current profiler, using the general methods adopted by the USGS. These methods are described in standard textbooks, USGS Water-Supply Paper 2175, and the Techniques of Water-Resources Investigations of the United States Geological Survey (TWRIs), Book 3, Chapters A1 through A19 and Book 8, Chapters A2 and B2, which may be accessed from <http://water.usgs.gov/pubs/twri/>. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standardization (ISO).

For stream-gaging stations, discharge-rating tables for any stage are prepared from stage-discharge curves. If extensions to the rating curves are necessary to express discharge greater than measured, the extensions are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams and weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily values. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features of the stream channel, the daily mean discharge is computed by the shifting-control method in which correction factors based on individual discharge measurements and notes by engineers and observers are used when applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the controlling section, the daily mean discharge is computed by the shifting-control method.

The stage-discharge relation at some stream-gaging stations is affected by backwater from reservoirs, tributary streams, or other sources. Such an occurrence 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 at some distance from the base gage.

An index velocity is measured using ultrasonic or acoustic instruments at some stream-gaging stations and this index velocity is used to calculate an average velocity for the flow in the stream. This average velocity along with a stage-area relation is then used to calculate average discharge.

At some stations, 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.

At some stream-gaging stations in the northern United States, the stage-discharge relation is affected by ice in the winter; therefore, computation of the discharge in the usual manner is impossible. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter-discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge from other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the volume or contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly changes are computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some stream-gaging stations, periods of time occur when no gage-height record is obtained or the recorded gage height is faulty and cannot be used to compute daily discharge or contents. Such a situation can happen when the recorder stops or otherwise fails to operate properly, the intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records from other stations in the same or nearby basins. Likewise, lake or reservoir volumes may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

Data Presentation

The records published for each continuous-record surface-water discharge station (stream-gaging station) consist of five parts: (1) the station manuscript or description; (2) the data table of daily mean values of discharge for the current water year with summary data; (3) a tabular statistical summary of monthly mean flow data for a designated period, by water year; (4) a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration; and (5) a hydrograph of discharge.

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 follow that clarify information presented under the various headings of the station description.

LOCATION.—Location information 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 term indicates the time period for which records have been published 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 its flow reasonably can be considered equivalent to flow at the present station.

REVISED RECORDS.—If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

GAGE.—The type of gage in current use, the datum of the current gage referred to a standard datum, 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 either will be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See section titled Identifying Estimated Daily Discharge.) Information is presented relative to the accuracy of the records, to special methods of computation, and 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, the outlet works and spillway, and the purpose and use of the reservoir.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.—Information here documents 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 USGS.

REVISIONS.—Records are revised if errors in published records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based National data system, NWISWeb (<http://water.usgs.gov/nwis/nwis>). Users are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent data updates. Updates to NWISWeb are made on an annual basis.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because no current or, possibly, future station manuscript would be published for these stations 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 USGS Colorado Water Science Center office (address given on the back of the title page of this report) to determine if the published records were revised after the station was discontinued. If, however, the data for a discontinued station were obtained by computer retrieval, the data would be current. 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 stage-capacity table when daily volumes are given.

Peak Discharge Greater than Base Discharge

Tables of peak discharge above base discharge are included for some stations where secondary instantaneous peak discharge data are used in flood-frequency studies of highway and bridge design, flood-control structures, and other flood-related projects. The base discharge value is selected so an average of three peaks a year will be reported. This base discharge value has a recurrence interval of approximately 1.1 years or a 91-percent chance of exceedence in any 1 year.

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 for the table, the line headed TOTAL gives the sum of the daily figures for each month; the line headed MEAN gives the arithmetic average flow in cubic feet per second for 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 is 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). Values for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if extensive regulation or diversion is in effect or if the drainage area includes large noncontributing areas. At some stations, monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion data or reservoir volumes are given. These values are identified by a symbol and a corresponding footnote.

Statistics of Monthly Mean Data

A tabular summary of the mean (line headed MEAN), maximum (MAX), and minimum (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 values. 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. The designated period will consist of all of the station record within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are 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 records within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are 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 of 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 the dates of occurrence do not fall within the selected water years listed in the heading, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration-curve statistics and runoff data also are given. Runoff data may be omitted if extensive regulation or diversion of flow is in effect in the drainage basin.

The following summary statistics data are provided with each continuous record of discharge. Comments that 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.

ANNUAL MEAN.—The arithmetic mean for the individual daily mean discharges for the year noted or for the designated period.

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.

MAXIMUM PEAK FLOW.—The maximum instantaneous peak discharge occurring for the water year or designated period. Occasionally the maximum flow for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak flow is given in the table and the maximum flow may be reported in a footnote or in the REMARKS paragraph in the manuscript.

MAXIMUM PEAK STAGE.—The maximum instantaneous peak stage occurring for the water year or designated period. Occasionally the maximum stage for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak stage is given in the table and the maximum stage may be reported in the REMARKS paragraph in the manuscript or in a footnote. If the dates of occurrence of the maximum peak stage and maximum peak flow are different, 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 equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Cubic feet per square mile (CFSM) 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.

Inches (INCHES) indicate 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 table lists annual maximum stage and discharge at crest-stage stations, and the second table lists 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 often made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for a 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. This identification is shown either by flagging individual daily values with the letter “e” and noting in a table footnote, “e Estimated,” or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of Field Data and Computed Results

The accuracy of streamflow data 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 observations of stage, measurements of discharge, and interpretations of records.

The degree of accuracy of the records is stated in the REMARKS in the station description. “Excellent” indicates that about 95 percent of the daily discharges are within 5 percent of the true value; “good” within 10 percent; and “fair,” within 15 percent. “Poor” indicates that daily discharges have less than “fair” accuracy. Different accuracies may be attributed to different parts of a given record.

Values of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft³/s; to the nearest tenths between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures above 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharge values listed for partial-record stations.

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. For such stations, values of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. 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 Data Records Available

Information of a more detailed nature than that published for most of the stream-gaging stations such as discharge measurements, gage-height records, and rating tables is available from the USGS Colorado Water Science Center. Also, most stream-gaging station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the USGS Colorado Water Science Center (see address that is shown on the back of the title page of this report).

EXPLANATION OF PRECIPITATION RECORDS

Data Collection and Computation

Rainfall data generally are collected using electronic data loggers that measure the rainfall in 0.01-inch increments every 15 minutes using either a tipping-bucket rain gage or a collection well gage. Twenty-four hour rainfall totals are tabulated and presented. A 24-hour period extends from just past midnight of the previous day to midnight of the current day. Snowfall-affected data can result during cold weather when snow fills the rain-gage funnel and then melts as temperatures rise. Snowfall-affected data are subject to errors. Missing values are indicated by this symbol “---” in the table.

Data Presentation

Precipitation records collected at surface-water gaging stations are identified with the same station number and name as the stream-gaging station. Where a surface-water daily-record station is not available, the precipitation record is published with its own name and latitude-longitude identification number.

Information pertinent to the history of a precipitation station is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, period of record, and general remarks.

The following information is provided with each precipitation station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

INSTRUMENTATION.—Information on the type of rainfall collection system is given.

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

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Surface-water samples for analysis usually are collected at or near stream-gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, water temperature, sediment discharge, and so forth); extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, sampling date, or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water Analysis

Most of the methods used for collecting and analyzing water samples are described in the TWRI's, which may be accessed from <http://water.usgs.gov/pubs/twri/>.

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 at several verticals to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

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 and minimum values (and sometimes mean or median values) for each constituent measured, and are based on 15-minute or 1-hour intervals of recorded data beginning at 0000 hours and ending at 2400 hours for the day of record.

SURFACE-WATER- QUALITY RECORDS

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because discharge data are useful in the interpretation of surface-water quality. Records of surface-water quality in this report involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A *continuous-record station* is a site where data are collected on a regularly scheduled basis. Frequency may be one or more times daily, weekly, monthly, or quarterly. A *partial-record station* is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A *miscellaneous sampling site* is a location other than a continuous- or partial-record station, where 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 *continuous records* as used in this report and *continuous recordings* that refer to a continuous graph or a series of discrete values recorded at short intervals. 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 were collected in water year 2004 are shown in figure 1.

Accuracy of the Records

One of four accuracy classifications is applied for measured physical properties at continuous-record stations on a scale ranging from poor to excellent. The accuracy rating is based on data values recorded before any shifts or corrections are made. Additional consideration also is given to the amount of publishable record and to the amount of data that have been corrected or shifted.

are taken. To assure that measurements made in the laboratory also represent the naturally occurring water, carefully prescribed procedures must 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 on-site measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1–A9. Most of the methods used for collecting and analyzing water samples are described in the TWRIs, which may be accessed from <http://water.usgs.gov/pubs/twri/>. Also, detailed information on collecting, treating, and shipping samples can be obtained from the USGS Colorado Water Science Center (see address that is shown on the back of title page in this report).

Rating classifications for continuous water-quality records

[≤, less than or equal to; ±, plus or minus value shown; °C, degree Celsius; >, greater than; %, percent; mg/L, milligram per liter; pH unit, standard pH unit]

Measured physical property	Rating			
	Excellent	Good	Fair	Poor
Water temperature	≤ ±0.2 °C	> ±0.2 to 0.5 °C	> ±0.5 to 0.8 °C	> ±0.8 °C
Specific conductance	≤ ±3%	> ±3 to 10%	> ±10 to 15%	> ±15%
Dissolved oxygen	≤ ±0.3 mg/L	> ±0.3 to 0.5 mg/L	> ±0.5 to 0.8 mg/L	> ±0.8 mg/L
pH	≤ ±0.2 unit	> ±0.2 to 0.5 unit	> ±0.5 to 0.8 unit	> ±0.8 unit
Turbidity	≤ ±5%	> ±5 to 10%	> ±10 to 15%	> ±15%

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 station 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.

On-Site Measurements and Sample Collection

In obtaining water-quality data, a major concern is assuring that the data obtained represent the naturally occurring quality of the water. To ensure this, certain measurements, such as water temperature, pH, and dissolved oxygen, must be made on site when the samples

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the USGS Colorado Water Science Center.

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 section.

During periods of rapidly changing flow or rapidly changing concentration, samples may be 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 are collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, 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

Samples for biochemical oxygen demand (BOD) and indicator bacteria are analyzed locally. All other samples are analyzed in the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chapter C1. Methods used by the USGS laboratories are given in TWRI, Book 1, Chapter D2; and Book 5, Chapters A1, A3, and A4. The TWRI publications may be accessed from <http://water.usgs.gov/pubs/twri/>. These methods are consistent with ASTM standards and generally follow ISO standards.

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 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 information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

DRAINAGE AREA.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—This indicates the time periods for which published water-quality records for the station are available. 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 USGS by a cooperating organization are identified here.

EXTREMES.—Maximums and minimums are given only for parameters measured daily or more frequently. For parameters measured weekly or less frequently, true maximums or minimums may not have been obtained. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.—Records are revised if errors in published water-quality records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based National data system, NWISWeb (<http://waterdata.usgs.gov/nwis>).

Users of USGS water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent updates. Updates to the NWISWeb are made on an annual basis.

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

Remark Codes

The following remark codes may appear with the water-quality data in this section:

Printed Output	Remark
E	Value is estimated.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
M	Presence of material verified, but not quantified.
N	Presumptive evidence of presence of material.
U	Material specifically analyzed for, but not detected.
A	Value is an average.
V	Analyte was detected in both the environmental sample and the associated blanks.
S	Most probable value.

Water-Quality Control Data

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-MDLs) and laboratory reporting levels (LRLs). 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. Falsely reporting a concentration greater than the LT-MDL for a sample in which the analyte is not 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 less than LRL for samples in which the analyte was either not detected or did not pass identification. Analytes detected

at concentrations between the LT-MDL and the 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 generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this USGS Water Science Center office are described in the following section. Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples. These data are not presented in this report but are available from the USGS Colorado Water Science Center.

Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated in the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. Many types of blank samples are possible; each is designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this USGS Water Science Center are:

Field blank—A blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank—A blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank—A blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

Sampler blank—A blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Filter blank—A blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter blank—A blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

Preservation blank—A blank solution that is treated with the sampler preservatives used for an environmental sample.

Reference Samples

Reference material is a solution or material prepared by a laboratory. The reference material composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

Replicate Samples

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. Many types of replicate samples are possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this USGS Water Science Center are:

Concurrent samples—A type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating the collection of samples into two or more compositing containers.

Sequential samples—A type of replicate sample in which the samples are collected one after the other, typically over a short time.

Split sample—A type of replicate sample in which a sample is split into subsamples, each subsample contemporaneous in time and space.

Spike Samples

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

EXPLANATION OF GROUND-WATER-LEVEL RECORDS

Generally, only ground-water-level data from selected wells with continuous recorders from a basic network of observation wells are published in this report. This basic network contains observation wells located so that the most significant data are obtained from the fewest wells in the most important aquifers.

Site Identification Numbers

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is produced for local needs. (See “Numbering System for Wells and Miscellaneous Sites” in this report for a detailed explanation.)

Data Collection and Computation

Measurements are made in many types of wells, under varying conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Most methods for collecting and analyzing water samples are described in the TWRI's referred to in the On-site Measurements and Sample Collection and the Laboratory Measurements sections in this report. In addition, TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in TWRI's Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1 through A9. The TWRI publications may be accessed from <http://water.usgs.gov/pubs/twri/>. The values in this report represent water-quality conditions at the time of sampling, as much as possible, and that are consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. Trained personnel collected all samples. The wells sampled were pumped long

enough to ensure 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.

Water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum above sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (EOM).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth of water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

Data Presentation

Water-level data are presented in alphabetical order by county. The primary identification number for a given well is the 15-digit site identification number that appears in the upper left corner of the table. The secondary identification number is the local or county well number.

Each well record consists of three parts: the well description, the data table of water levels observed during the water year, and, for most wells, a hydrograph following the data table. Well descriptions are presented in the headings preceding the tabular data.

The following comments clarify information presented in these various headings.

LOCATION.—This paragraph follows the well-identification number and reports the hydrologic-unit number and a geographic point of reference. Latitudes and longitudes used in this report are reported as North American Datum of 1927 unless otherwise specified.

AQUIFER.—This entry designates by name and geologic age the aquifer that the well taps.

WELL CHARACTERISTICS.—This entry describes the well in terms of depth, casing diameter and depth or screened interval, method of construction, use, and changes since construction.

INSTRUMENTATION.—This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on continuous, monthly, or some other frequency of measurement.

DATUM.—This entry describes both the measuring point and the land-surface elevation at the well. The altitude of the land-surface datum is described in feet above the altitude datum; it is reported with a precision depending on the method of determination. The measuring point is described physically (such as top of casing, top of instrument shelf, and so forth), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above National Geodetic Vertical Datum of 1929 (NGVD 29); it is reported with a precision depending on the method of determination.

REMARKS.—This entry describes factors that may influence the water level in a well or the measurement of the water level, when various methods of measurement were begun, and the network (climatic, terrane, local, or areal effects) or the special project to which the well belongs.

PERIOD OF RECORD.—This entry indicates the time period for which records are published for the well, the month and year at the start of publication of water-level records by the USGS, and the words “to current year” if the records are to be continued into the following year. Time periods for which water-level records are available, but are not published by the USGS, may be noted.

EXTREMES FOR PERIOD OF RECORD.—This entry contains the highest and lowest instantaneously recorded or measured water levels of the period of published record, with respect to land-surface datum or sea level, and the dates of occurrence.

Water-Level Tables

A table of water levels follows the well description for each well. Water-level measurements in this report are given in feet with reference to either sea level or land-surface datum (lsd). Missing records are indicated by dashes in place of the water-level value.

For wells not equipped with recorders, water-level measurements were obtained periodically by steel or electric tape. Tables of periodic water-level measurements in these wells show the date of measurement and the measured water-level value.

Hydrographs

Hydrographs are a graphic display of water-level fluctuations over a period of time. In this report, current water year and, when appropriate, period-of-record hydrographs are shown. Hydrographs that display periodic water-level measurements show points that may be connected with a dashed line from one measurement to the next. Hydrographs that display recorder data show a solid line representing the mean water level recorded for each day. Missing data are indicated by a blank space or break in a hydrograph. Missing data may occur as a result of recorder malfunctions, battery failures, or mechanical problems related to the response of the recorder's float mechanism to water-level fluctuations in a well.

GROUND-WATER-QUALITY DATA

Data Collection and Computation

The ground-water-quality data in this report were obtained as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some wells within a county but not for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality Statewide.

Most methods for collecting and analyzing water samples are described in the TWRIs, which may be accessed from <http://water.usgs.gov/pubs/twri/>. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in TWRIs, Book 1, Chapter D2; Book 5, Chapters A1, A3, and A4; and Book 9, Chapters A1–A6. Also, detailed information on collecting, treating, and shipping samples may be obtained from the USGS Colorado Water Science Center (see address shown on back of title page in this report).

Laboratory Measurements

Analysis for sulfide and measurement of alkalinity, pH, water temperature, specific conductance, and dissolved oxygen are performed on site. All other sample analyses are performed at the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used by the USGS laboratory are given in TWRIs, Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4, which may be accessed from <http://water.usgs.gov/pubs/twri/>.

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 from <http://water.usgs.gov>.

Water-quality data and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on various media. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each USGS Water Science Center (See address that is shown on the back of the title page of this report.)

DEFINITION OF TERMS

Specialized technical terms related to stream flow, water-quality, and other hydrologic data, as used in this report, may be accessed from http://water.usgs.gov/ADR_Defs_2004.pdf. Terms such as algae, water level, and precipitation are used in their common everyday meanings, definitions of which are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting English units to International System (SI) Units. Other glossaries that also define water-related terms are accessible from <http://water.usgs.gov/glossaries.html>.

**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, 1923, 1926–47
Little Grizzly Creek near Coalmont, CO	06611700	10.1	1967–73
Little Grizzly Creek above Coalmont, CO	06611800	35.4	1976–80
Little Grizzly Creek above Hebron, CO	06611900	52.2	1976–80
Little Grizzly Creek near Hebron, CO	06612000	98.6	1904–05, 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, 1923–47
Illinois Creek near Rand, CO	06617500	70.6	1931–40
Willow Creek near Rand, CO	06618000	55.9	1931–40
Illinois River below Ish Baldwin Ditch near Walden, CO	06618300	181	2002–2004
Illinois River below Potter Creek near Walden, CO	06618480	257	2001–2004
Illinois Creek at Walden, CO	06618500	259	1923–47
Michigan River near Cowdrey, CO	06619000	478	1904–05, 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

**DISCONTINUED SURFACE-WATER DISCHARGE
OR STAGE-ONLY STATIONS—CONTINUED**

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
South Platte River at Lake George, CO	06696200	1,084	1910–11, 1929
Tarryall Creek below Park Gulch near Como, CO	06697100	76.1	1997–2001
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	1910–12, 1925–55
Goose Creek above Cheesman Lake, CO	06700500	86.6	1899, 1924–82
Cheesman Lake	06701000	1,752	1900–98
Spring Creek above mouth near South Platte, CO	06701970	9.79	1997–2003
South Platte River above North Fork at South Platte, CO	06702000	2,098	1905–12
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 1995–97
North Fork South Platte River below Geneva Creek, at Grant, CO	06706000	127	1908–13, 1942–98
North Fork South Platte River at Pine, CO	06706500	374	1942–46
Miller Gulch near Buffalo Creek, CO	06706600	3.16	2000–2002
Buffalo Creek at mouth at Buffalo Creek, CO	06706800	47.4	1997–2003
North Fork South Platte River at South Platte, CO	06707000	479	1909–10, 1913–82
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	3,093	1989–95
Turkey Creek at mouth of canyon near Morrison, CO	06710995	47.4	1998–2001
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
Cherry Creek at Glendale, CO	06713300	404	1985–2003
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

**DISCONTINUED SURFACE-WATER DISCHARGE
OR STAGE-ONLY STATIONS—CONTINUED**

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
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	570 (revised)	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
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, 1928–31, 1954–73
Middle Saint Vrain Creek near Raymond, CO	06722900	16.8	1956–58
Middle Saint Vrain Creek near Allens Park, CO	06723000	28.0	1925–30, ^a
South Saint Vrain Creek above Lyons, CO	06723400	81.4	1971–80
St. Vrain Creek at Lyons, CO	06724000	216 (revised)	1887–1895 1895–1998
Lefthand Creek near Boulder, CO	06724500	52.0	1929–31, 1947–53, 1976–80
Lefthand Creek at mouth at Longmont, CO	06725000	72.0	1927–42, 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, 1983–95

**DISCONTINUED SURFACE-WATER DISCHARGE
OR STAGE-ONLY STATIONS—CONTINUED**

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
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
St. Vrain Creek at mouth near Platteville, CO	06731000	979 (revised)	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, 1968–70
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	1,882 (revised)	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, CO	06753990	571	1993–95, 2001–2004
Crow Creek near Barnsville, CO	06756500	1,324	1951–57
South Platte River at Masters, CO	06756995	12,169	1976–88
South Platte River at Sublette, CO	06757000	12,220	1926–42, 1943–55

**DISCONTINUED SURFACE-WATER DISCHARGE
OR STAGE-ONLY STATIONS—CONTINUED**

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Kiowa Creek at K-79 Reservoir near Eastonville, CO	06757600	3.20	1955-65
Kiowa Creek at Elbert, CO	06758000	28.6	1955-65
West Kiowa Creek at Elbert, CO	06758100	35.9	1962-65
Kiowa Creek at Kiowa, CO	06758200	111	1955-65
Kiowa Creek at Bennett, CO	06758300	236	1960-65
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 Cooper Bridge near Balzac, CO	06759910	16,623	1987-98
South Platte River at Balzac, CO	06760000	16,623	1916-80
South Platte River near Crook, CO	06760500	19,006	1953-58
Arikaree River above Spring Canyon near Idalia, CO	06821360	1,111	2002-2003
North Fork Republican River near Wray, CO	06822000	1,019	1937-46, 1951-57, 1962-64
South Fork Republican River near Idalia, CO	06825000	1,300	1950-71, 1972-81
Landsman Creek near Hale, CO	06825500	268	1950-76, 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
Lake Creek above Twin Lakes Reservoir, CO	07084500	75	1946-98
Arkansas River at Buena Vista, CO	07087200	611	1964-80, 1986-93
Cottonwood Creek below Hot Springs near Buena Vista, CO	07089000	65.0	1910-23, 1949-86
Chalk Creek upper station near Saint Elmo, CO	07090000	48.0	1913-19
Chalk Creek near Saint Elmo, CO	07090500	83.0	1910-16
Chalk Creek near Nathrop, CO	07091000	97.0	1910, 1949-56, ^a
Arkansas River at Salida, CO	07091500	1,218	1895-97, 1901-03, 1909-80

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
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
Badger Creek, upper station, near Howard, CO	07093740	106	1981–2003
Badger Creek, lower station, near Howard, CO	07093775	211	1981–2003
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
Red Creek below Sullivan Park at Fort Carson, CO	07099080	26.6	2000–2003 ^a
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
North Monument Creek at Spring Street at Palmer Lake, CO	07103740	16.0	2002–2004
Monument Creek at Palmer Lake, CO	07103747	25.9	1977–90
Monument Creek at Monument, CO	07103750	28.5	1976–77
Deadmans Creek above Deadmans Lake at U.S. Air Force Academy, CO	07103785	1.55	2000–2003
Monument Creek below Sewage Treatment Plant at U.S. Air Force Academy, CO	07103790	122	2000–2003
West Monument Creek near Pikeview, CO	07103900	15.4	1957–70
West Monument Creek at mouth at U.S. Air Force Academy, CO	07103930	23.5	2000–2003
Monument Creek at South Boundary at U.S. Air Force Academy, CO	07103940	150	2000–2003
Kettle Creek near Black Forest, CO	07103950	9.01	1976–86
Kettle Creek above U.S. Air Force Academy, CO	07103960	16.0	2000–2003 ^a
Cottonwood Creek at Cowpoke Road at Colorado Springs, CO	07103977	5.93	1998–2003 ^a
Cottonwood Creek Tributary above Rangewood Drive at Colorado Springs, CO	07103985	2.81	1998–2003 ^a
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
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	07107000	16.0	1936–41
Saint Charles River at Burnt Mill, CO	07107500	166	1923–34

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Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Greenhorn Creek near Rye, CO	07107900	9.56	1974–80, 1999–2001
Greenhorn Creek near Colorado City, CO	07108050	29.6	1974–79
Graneros Creek near Rye, CO	07108100	4.32	1999–2001
Saint Charles River near Pueblo, CO	07108500	467	1941–53,
Saint Charles River near Vineland, CO	07108800	473	1968–74
Saint Charles River at mouth near Pueblo, CO	07109000	475	1922–25
Sixmile Creek near Avondale, CO	07110000	45.0	1922–24, 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, 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

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OR STAGE-ONLY STATIONS—CONTINUED**

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
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
Carpitos Canyon near Jansen, CO	07124350	4.57	1978–81
Purgatoire River at Trinidad, CO	07124500	795	1895–99, 1905–12, 1915–60, 1961–82
Purgatoire River near Hoehne, CO	07125000	857	1954–68
Frijole Creek near Alfalfa, CO	07125100	80.0	1957–68
San Francisco Creek near Alfalfa, CO	07125500	160	1954–68
Purgatoire River near Alfalfa, CO	07126000	1,320	1905–07, 1924–28, 1951–68
Van 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
Willow Creek near Lamar, CO	07133050	42.0	1974–77
Big Sandy Creek above Amity Canal near Korman, CO	07134000	3,396	1941–46
Two Butte Creek near Holly	07135000	817	1942–46, 1995–99 ^a
Arkansas River at Holly, CO	07135500	25,073	1894, 1901–02, 1907–53
Wild 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
Willow Creek at Creede, CO	08216500	51.7	1951–82
Rio Grande at Wason below Creede, CO	08217000	705	1907–54
Rio Grande at Wagonwheel Gap, CO	08217500	780	1951–2000
Goose Creek near Wagonwheel Gap, CO	08218000	53.6	1924–26, 1939–52
Goose Creek at Wagonwheel Gap, CO	08218500	90.0	1954–91
Pinos Creek near Del Norte, CO	08220500	53.0	1919–24, 1936–82
San Francisco Creek at upper station near Del Norte, CO	08220900	11.8	1967–69

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Rio Grande near Monte Vista, CO	08221500	1,590	1926–80
Rock Creek near Monte Vista, CO	08223500	32.9	1935–55, 1966–70
San Luis Creek near Poncha Pass, CO	08224110	6.57	1979–85
San Luis Creek above Villa Grove, CO	08224113	11.2	1979–85
Raspberry Creek near Villa Grove, CO	08224200	1.78	1967–70, 1936–82
Noland Gulch Tributary Reservoir Inflow, near Villa Grove, CO	08226600	0.08	1979–89
Cotton Creek near Mineral Hot Springs, CO	08226700	13.6	1967–70
Anaconda Reservoir near Villa Grove, CO	08227300	0.17	1979–85
Tracy 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
Alamosa River above Wightman Fork near Jasper, CO	08235250	37.8	1995–99
Wightman Fork below Cropsey Creek at Summitville, CO	08235270	4.44	1995–99
Wightman Fork at mouth near Jasper, CO	08235290	16.1	1995–99
Alamosa River above Jasper, CO	08235350	58.1	1995–99
Alamosa River below Castleman Gulch near Jasper, CO	08235700	76.3	1995–99
Alamosa Creek above Terrace Reservoir, CO	08236000	107	1911–12, 1914–27, 1934–82
Alamosa Creek below Terrace Reservoir, CO	08236500	116	1909–55
La Jara Creek at Gallegos Ranch near Capulin, CO	08238000	98.0	1916–17, 1919–23, 1936–82
Yellow Warbler Reservoir Inflow near Antonito, CO	08238350	0.18	1979–89
Turkey Reservoir Inflow near Conejos, CO	08238380	0.24	1979–89
Bobolink Reservoir near Conejos, CO	08238400	0.23	1979–89
Rio Grande above mouth of Trinchera Creek near Lasauces, CO	08240000	5,740	1936–98
Trinchera Creek above Turners Ranch near Fort Garland, CO	08240500	45.0	1923–82
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

**DISCONTINUED SURFACE-WATER DISCHARGE
OR STAGE-ONLY STATIONS—CONTINUED**

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Lady Creek near Grand Lake, CO	09010100	0.08	1969–75
Jimmy Creek near Grand Lake, CO	09010400	0.08	1969–75
Onahu Creek near Grand Lake, CO	09010600	8.84	1969
Colorado River near Grand Lake, CO	09011000	102	1904–18, 1933–86
Little Columbine Creek above Shadow Mountain Lake at Grand Lake, CO	09011500	1.65	1950–55
Tonahutu Creek near Grand Lake, CO	09012400	16.0	1969
Harbison Ditch near Grand Lake, CO	09012410	--	1969
Tonahutu Creek below Harbison Ditch near Grand Lake, CO	09012420	--	1969
North Inlet at Grand Lake, CO	09012500	45.9	1905–09, 1910–12, 1947–55
East Inlet near Grand Lake, CO	09013500	27.2	1947–55
Grand Lake Outlet at Grand Lake, CO	09014000	76.3	1904–09, 1910–13
Shadow Mountain Lake near Grand Lake, CO	09014500	185	1947–98
Colorado River below Shadow Mountain Reservoir, CO	09015000	190	1947–59
Columbine Creek above Lake Granby near Grand Lake, CO	09015500	7.38	1950–55
Roaring Fork above Lake Granby, CO	09016000	5.95	1951–55
Arapahoe Creek at Monarch Lake Outlet, CO	09016500	46.9	1944–71
Arapahoe Creek below Monarch Lake, CO	09017000	56.9	1934–44
Stillwater Creek above Lake Granby, CO	09018000	17.5	1950–55
Colorado River below Lake Granby, CO	09019000	312	1950–82
Willow Creek near Granby, CO	09020000	109	1934–53
Willow Creek above Willow Creek Reservoir, CO	09020500	127	1953–60
Willow Creek Reservoir near Granby, CO	09020700	134	1953–98
Willow Creek below Willow Creek Reservoir, CO	09021000	134	1953–82
Moffat water tunnel at East Portal, CO	09022500	--	1935–82
Fraser River above Winter Park, CO	09023500	22.4	1907–09, 1934–37
Elk Creek near Fraser, CO	09025400	7.15	1970–96
Ranch Creek Ditch near Fraser, CO	09031900	--	1948–67
Ranch Creek near Tabernash, CO	09032500	51.3	1934–60
Meadow Creek near Tabernash, CO	09033000	8.03	1935–56
Strawberry Creek near Granby, CO	09033500	11.6	1935–45
Fraser River at Granby, CO	09034000	297	1904–09, 1937–55
Colorado River at Hot Sulphur Springs, CO	09034500	825	1904–94
Little Muddy Creek near Parshall, CO	09034800	6.52	1953–65
South Fork Williams Fork at Upper Station near Ptarmigan Pass, CO	09035820	2.78	1984–87
South Fork Williams Fork near Ptarmigan Pass, CO	09035830	4.01	1984–88
South Fork Williams Fork above Tributary near Ptarmigan Pass, CO	09035840	5.53	1984–87
South Fork Williams Fork Tributary near Ptarmigan Pass, CO	09035845	0.60	1984–88
South Fork Williams Fork above Short Creek near Ptarmigan Pass, CO	09035850	6.53	1984–87

**DISCONTINUED SURFACE-WATER DISCHARGE
OR STAGE-ONLY STATIONS—CONTINUED**

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
South Fork Williams Fork below Short Creek near Ptarmigan Pass, CO	09035870	20.0	1984–87
South Fork Williams Fork below Old Baldy Mountain near Leal, CO	09035880	21.8	1985–88
Keyser Creek near Leal, CO	09036500	13.8	1942–52
Williams Fork near Scholl, CO	09037000	141	1910–17
Skylark Creek near Parshall, CO	09037200	2.42	1958–65
Williams Fork Reservoir near Parshall, CO	09038000	230	1939–98
Troublesome Creek near Pearmont, CO	09039000	44.6	1953–93
Troublesome Creek at Atmore Ranch near Troublesome, CO	09039500	48.8	1937–43
East Fork Troublesome Creek near Troublesome, CO	09040000	76.0	1937–43, 1953–83
Troublesome Creek near Troublesome, CO	09040500	168	1904–05, 1921–22, 1937–56
Muddy Creek near Kremmling, CO	09041000	87.4	1937–43, 1955–71, 1993–99
Antelope Creek near Kremmling, CO	09041100	11.5	1955–68
Red Dirt Creek near Kremmling, CO	09041200	19.0	1955–74
Pass Creek near Kremmling, CO	09041300	17.8	1957–70
Muddy Creek at Kremmling, CO	09041500	290	1904–05, 1982–95
Monte Cristo Creek near Hoosier Pass, CO	09043000	5.66	1953–58
Hoosier Creek near Hoosier Pass, CO	09044000	1.15	1953–58
Bemrose Creek near Hoosier Pass, CO	09044500	1.95	1953–58
McCullough Gulch near Breckenridge, CO	09045000	4.79	1953–58
Spruce Creek near Breckenridge, CO	09045500	5.23	1953–58
Blue River at Dillon, CO	09047000	128	1910–61
Snake River at Dillon, CO	09048000	90.9	1910–19, 1929–64
West Tenmile Creek at Copper Mountain, CO	09049200	21.0	1973–79
Tenmile Creek at Frisco, CO	09050000	81.0	1942–50
Tenmile Creek at Dillon, CO	09050500	111	1910–19, 1929–61
Dillon Reservoir	09050600	335	1963–98
Straight Creek near Dillon, CO	09051000	12.9	1943–52
Willow Creek near Dillon, CO	09051500	13.4	1942–51
Rock Creek near Dillon, CO	09052000	15.8	1942–56, 1966–94
Boulder Creek at upper station, near Dillon, CO	09052400	8.56	1966–94
Boulder Creek near Dillon, CO	09052500	9.89	1942–51
Slate Creek at upper station, near Dillon, CO	09052800	14.2	1966–94
Slate Creek near Dillon, CO	09053000	16.6	1942–54
Blue River above Green Mountain Reservoir, CO	09053500	511	1943–71, 1985–88

**DISCONTINUED SURFACE-WATER DISCHARGE
OR STAGE-ONLY STATIONS—CONTINUED**

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Black Creek below Black Lake, near Dillon, CO	09054000	15.0	1942–49, 1966–94
Black Creek above Green Mountain Reservoir, CO	09054500	18.5	1944–53
Otter Creek above Green Mountain Reservoir, CO	09055000	8.40	1944–53
Cataract Creek near Kremmling, CO	09055300	12.0	1966–94
Cataract Creek above Green Mountain Reservoir, CO	09055500	13.6	1944–53
Blue River near Kremmling, CO	09056000	571	1904–08
Green Mountain Reservoir	09057000	598	1942–98
Blue River below Spruce Creek near Kremmling, CO	09057520	645	1989–94
Colorado River near Radium, CO	09058030	2,412	1981–90
Piney River below Piney Lake near Minturn, CO	09058500	13.0	1948–54, 1964–2004
Dickson Creek near Minturn, CO	09058600	3.41	1964–71
Dickson Creek near Vail, CO	09058610	3.41	1972–2004
Freeman Creek near Minturn, CO	09058700	2.94	1965–2004
East Meadow Creek near Minturn, CO	09058800	3.61	1965–2004
Rock Creek near Toponas, CO	09060500	47.6	1952–81
Rock Creek at Crater, CO	09060550	72.6	1984–99
Egeria Creek near Toponas, CO	09060700	28.2	1965–73
Rock Creek at McCoy, CO	09060770	198	1983–97
Big Alkali Creek near Burns, CO	09060800	14.2	1958–65
Catamount Creek near Burns, CO	09060900	5.31	1955–61
Big Alkali Creek below Castle Creek near Burns, CO	09060950	34.2	1981–86
Sunnyside Creek near Burns, CO	09061000	9.04	1952–58
Columbine Ditch near Fremont Pass, CO	09061500	--	1930–82
Ewing Ditch at Tennessee Pass, CO	09062000	--	1908–82
Wurtz Ditch near Tennessee Pass, CO	09062500	--	1931–82
Turkey Creek at Red Cliff, CO	09063500	29.4	1913–21, 1944–56
Black Gore Creek near Vail, CO	09066050	19.6	1974–79
Gore Creek at Vail, CO	09066250	57.3	1974–79
Gore Creek at Lower Station, at Vail, CO	09066310	77.1	1988–99
Gore Creek near Minturn, CO	09066500	101	1911–14, 1944–56
Beaver Creek at Avon, CO	09067000	14.8	1911, 1912–14, 1974–87, 1988
Eagle River at Avon, CO	09067005	395	1988–99,
Alkali Creek near Wolcott, CO	09067300	27.3	1958–65
Eagle River at Eagle, CO	09067500	629	1910–24
East Brush Creek at Yeoman Park near Eagle, CO	09067700	9.74	1965–72
Brush Creek near Eagle, CO	09068000	71.4	1950–72

**DISCONTINUED SURFACE-WATER DISCHARGE
OR STAGE-ONLY STATIONS—CONTINUED**

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Gypsum Creek near Gypsum, CO	09069500	62.7	1950–55, 1965–72
Colorado River near Glenwood Springs, CO	09071100	--	1941–85
Grizzly Creek near Glenwood Springs, CO	09071300	5.73	1976–96
Colorado River at Glenwood Springs, CO	09072500	4,558	1899–1966
Roaring Fork above Lost Man Creek near Aspen, CO	09072550	9.10	1980–86
Lincoln Creek below Grizzly Reservoir near Aspen, CO	09073005	15.2	1980–86
Roaring Fork River at Aspen, CO	09073500	109	1910–21, 1931–64
Hunter Creek above Midway Creek near Aspen, CO	09073700	6.18	1964–80
Hunter Creek Feeder Conduit near Aspen, CO	09073720	--	1981–83
Midway Creek Feeder Conduit near Aspen, CO	09073790	--	1981–83
Midway Creek near Aspen, CO	09073800	8.62	1971–80
No Name Creek Feeder Conduit near Aspen, CO	09073890	--	1981–83
No Name Creek near Aspen, CO	09073900	6.54	1971–80
Castle Creek above Aspen, CO	09074800	32.2	1969–94
Castle Creek near Aspen, CO	09075000	67.0	1911–20
Roaring Fork below Aspen, CO	09075500	228	1913–18
Maroon Creek above Aspen, CO	09075700	35.4	1969–94
Maroon Creek near Aspen, CO	09076000	41.7	1910–17
Owl Creek near Aspen, CO	09076520	6.60	1974–89
Fryingpan River Feeder Canal near Norrie, CO	09077150	--	1971–83
Fryingpan River near Ivanhoe Lake, CO	09077200	18.7	1963–82
Lily Pad Feeder Canal near Norrie, CO	09077250	--	1972–83
Granite Creek Feeder Conduit near Norrie, CO	09077300	--	1981–83
Fryingpan River near Norrie, CO	09077400	32.2	1963–67
Ivanhoe Creek near Norrie, CO	09077600	9.12	1963–76
Ivanhoe Creek Feeder Canal near Nast, CO	09077605	--	1976–83
Ivanhoe Creek near Nast, CO	09077610	9.43	1976–82
South Fork Fryingpan River Feeder Canal near Norrie, CO	09077750	--	1971–83
South Fork Fryingpan River at Upper Station near Norrie, CO	09077800	11.5	1963–82
South Fork Fryingpan River near Norrie, CO	09077900	17.3	1963–67
Chapman Gulch Feeder Canal near Norrie, CO	09077940	--	1971–83
Chapman Gulch near Nast, CO	09077945	6.00	1973–82
Chapman Gulch near Norrie, CO	09077950	6.38	1966–72
Sawyer Creek Feeder Canal near Norrie, CO	09077960	--	1972–83
Fryingpan River at Norrie, CO	09078000	90.6	1910–17, 1947–83
North Fork Fryingpan River Feeder Canal near Norrie, CO	09078040	--	1980–83
Morman Creek Feeder Canal near Norrie, CO	09078050	--	1979–83
Carter Creek Feeder Canal near Norrie, CO	09078060	--	1980–83
North Fork Fryingpan River above Cunningham Creek near Norrie, CO	09078100	12.0	1963–80
Cunningham Creek Feeder Canal near Norrie, CO	09078140	--	1979–83

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OR STAGE-ONLY STATIONS—CONTINUED**

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Middle Cunningham Creek Feeder Canal near Norrie, CO	09078150	--	1980–83
Cunningham Creek near Norrie, CO	09078200	7.12	1963–80
North Fork Fryingpan River below Cunningham Creek near Norrie, CO	09078300	24.2	1963–68
North Fork Fryingpan River near Norrie, CO	09078500	42.0	1910–17, 1947–82
Lime Creek near Troutville, CO	09078900	4.56	1963–68
Lime Creek at Troutville, CO	09079000	7.76	1950–56
Lime Creek at Thomasville, CO	09079500	35.0	1950–56
Fryingpan River at Thomasville, CO	09080000	173	1915–20
Fryingpan River at Meredith, CO	09080100	191	1910–15, 1966–80
Fryingpan River at Ruedi, CO	09080200	226	1959–64
Rocky Fork Creek near Meredith, CO	09080300	12.3	1968–82
West Sopris Creek near Basalt, CO	09080800	14.4	1963–68
Crystal River at Marble, CO	09081500	74.3	1910–15, 1916–17
Crystal River at Placita, CO	09081550	107	1959–73, 1975–77
Crystal River near Redstone, CO	09082500	229	1935–63
North Thompson Creek near Carbondale, CO	09082800	27.8	1963–79
Thompson Creek near Carbondale, CO	09083000	75.4	1950–60, 1964–68
Prince Creek near Carbondale, CO	09083700	3.04	1963–68
Cattle Creek near Carbondale, CO	09084000	31.1	1950–55, 1962–72
Fourmile Creek near Carbondale, CO	09084500	8.10	1941–47
Fourmile Creek near Glenwood Springs, CO	09084600	16.7	1957–65
Canyon Creek above New Castle, CO	09085200	23.8	1969–86
East Canyon Creek near New Castle, CO	09085300	15.1	1969–83
Possum Creek near New Castle, CO	09085400	6.41	1969–82
Canyon Creek near New Castle, CO	09085500	55.0	1954–60
West Elk Creek near New Castle, CO	09086000	9.55	1991–97
Main Elk Creek near New Castle, CO	09086470	91.0	1991–97
East Elk Creek above Boiler Creek near New Castle, CO	09086970	23.4	1991–97
Elk Creek at New Castle, CO	09087500	180	1922–24, 1954–60
Colorado River at New Castle, CO	09087600	6,308	1966–72
Baldy Creek near New Castle, CO	09088000	15.3	1955–61
West Divide Creek below Willow Creek near Raven, CO	09089000	34.9	1938–47, 1963–70
East Divide Creek near Silt, CO	09090700	40.8	1959–65
East Rifle Creek near Rifle, CO	09091500	34.3	1936–43, 1956–64
Rifle Creek near Rifle, CO	09092000	137	1939–46, 1952–64

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OR STAGE-ONLY STATIONS—CONTINUED**

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Beaver Creek near Rifle, CO	09092500	7.90	1952–82
Battlement Creek near Parachute, CO	09092600	10.5	1956–65
West Parachute Creek near Parachute, CO	09092800	48.1	1957–62
Northwater Creek near Anvil Points, CO	09092830	12.6	1976–83
East Middle Fork Parachute Creek near Rio Blanco, CO	09092850	22.1	1976–83
East Fork Parachute Creek near Anvil Points, CO	09092960	14.5	1976–83
East Fork Parachute Creek near Rulison, CO	09092970	20.4	1976–83
Ben Good Creek near Rulison, CO	09092980	4.04	1976–83
Parachute Creek near Parachute, CO	09093000	141	1948–54, 1964–70, 1975–86
Parachute Creek at Parachute, CO	09093500	198	1921–27, 1948–54, 1975–82
Colorado River near De Beque, CO	09093700	7,370	1967–97
Roan Creek above Clear Creek near De Beque, CO	09094200	151	1962–68
Clear Creek near De Beque, CO	09094400	110	1966–68
Roan Creek near De Beque, CO	09095000	321	1921–26, 1962–72, 1975–81
Dry Fork at upper station, near De Beque, CO	09095300	97.4	1996–98, 2001–2004
Dry Fork near De Beque, CO	09095400	109	1974–82
Government Highline Canal at 16 Road near Loma, CO	09095526	--	1975–85
Lateral No 48 near Mack, CO	09095528	--	1973–81
Government Highline Canal above Camp 7 Spillway near Mack, CO	090955285	--	1983–85
Camp No 7 Spillway near Mack, CO	09095529	--	1975–82
Government Highline Canal near Mack, CO	09095530	--	1973–82
Plateau Creek near Heiberger, CO	09095800	18.6	1958–64
Plateau Creek at Upper Station near Collbran, CO	09096000	24.1	1937–43, 1951–58
Plateau Creek near Collbran, CO	09096500	80.4	1921–80
Buzzard Creek below Owens Creek near Heiberger, CO	09096800	49.7	1955–70
Buzzard Creek near Collbran, CO	09097500	143	1921–80
Brush Creek near Collbran, CO	09097600	9.57	1955–67
Atkinson Creek near Collbran, CO	09098500	0.85	1952–55
East Fork Big Creek near Collbran, CO	09099000	4.92	1940–41, 1950–55
Big Creek at Upper Station near Collbran, CO	09099500	20.2	1945–56
Big Creek near Collbran, CO	09100000	27.1	1937–44
Cottonwood Creek at Upper Station near Molina, CO	09100500	14.0	1945–57
Cottonwood Creek near Molina, CO	09101000	17.8	1937–43
Bull Creek at Upper Station near Molina, CO	09101500	9.85	1945–53

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OR STAGE-ONLY STATIONS—CONTINUED**

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Coon Creek near Mesa, CO	09104000	9.35	1937–43
Mesa Creek near Mesa, CO	09104500	6.79	1937–60
Colorado River near Palisade, CO	09106000	8,738	1901–33
Kiefer Extension to Grand Valley Canal near Fruita, CO	09106104	--	1975–85
Kiefer Extension to Grand Valley Canal near Loma, CO	09106108	--	1975–85
Lewis Wash near Grand Junction, CO	09106200	4.72	1973–79, 2002–2004
Texas Creek at Taylor Park, CO	09107500	40.4	1929–34, 1988–92
Willow Creek at Taylor Park, CO	09108000	--	1913–14, 1929–34
East River near Crested Butte, CO	09110500	90.3	1939–51
Coal Creek near Crested Butte, CO	09111000	8.65	1941–46
Cement Creek near Crested Butte, CO	09112000	26.1	1910–13, 1940–51
Castle Creek near Baldwin, CO	09113000	20.3	1944–50
Castle Creek above mouth near Baldwin, CO	09113100	22.4	1993–98
Ohio Creek at Baldwin, CO	09113300	47.2	1958–70
Ohio Creek near Baldwin, CO	09113500	121	1940–50, 1958–71, 1979–81
Ohio Creek near Gunnison, CO	09114000	167	1944–50
Tomichi Creek near Doyleville, CO	09116000	209	1944–50
Tomichi Creek at Parlin, CO	09117000	427	1944–51, 1963–70
Quartz Creek near Ohio City, CO	09118000	106	1937–50, 1959–70
Cochetopa Creek near Parlin, CO	09118500	361	1940–48
Gunnison River at Iola, CO	09120500	2,352	1899, 1903, 1937–51
Cebolla Creek near Lake City, CO	09121500	25.2	1946–54
Cebolla Creek near Powderhorn, CO	09121800	248	1960–63
Cebolla Creek at Powderhorn, CO	09122000	340	1937–55
Soap Creek near Sapinero, CO	09122500	57.4	1955–66
Soap Creek at Sapinero, CO	09123000	86.0	1910–14, 1945–52
Lake Fork below Mill Gulch near Lake City, CO	09123400	57.5	1981–86
Lake Fork at Lake City, CO	09123500	115	1917–24, 1928–30, 1931–37
Henson Creek at Lake City, CO	09124000	83.1	1917–19, 1928–30, 1931–37

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OR STAGE-ONLY STATIONS—CONTINUED**

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[-, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Gunnison River below Blue Mesa Dam, CO	09124700	3,453	1963–68
Curecanti Creek near Sapinero, CO	09125000	35.0	1945–72
Cimarron River at Cimarron, CO	09126500	209	1902–05, 1962–67
Cimarron River below Squaw Creek at Cimarron, CO	09127000	229	1942–52
Crystal Creek near Maher, CO	09127500	42.2	1916–19, 1945–54, 1960–69
Gunnison River above Gunnison Tunnel, CO	09127998	3,965	1905–65
Gunnison Tunnel near Montrose, CO	09127999	3,965	1910–65
Smith Fork near Crawford, CO	09128500	42.8	1935–94
Smith Fork at Crawford, CO	09129000	63.1	1954–60
Iron Creek near Crawford, CO	09129500	71.5	1947–52
Smith Fork near Lazear, CO	09129600	166	1976–87
Clear Fork near Ragged Mountain, CO	09129800	38.5	1965–73
East Muddy Creek near Bardine, CO	09130500	133	1934–53
West Muddy Creek near Ragged Mountain, CO	09130600	7.42	1955–65
West Muddy Creek near Bowie, CO	09130800	27.7	1968–74
Cow Creek near Paonia, CO	09131100	12.0	1968–82
West Muddy Creek near Somerset, CO	09131200	49.9	1961–73
Ruby Anthracite Creek near Floresta, CO	09132000	20.7	1938–43, 1954–58
Anthracite Creek near Somerset, CO	09132050	94.6	1977–81
Main Hubbard Creek near Paonia, CO	09132700	1.33	1960–68
Middle Hubbard Creek near Paonia, CO	09132800	1.36	1960–68
West Hubbard Creek near Paonia, CO	09132900	2.34	1960–73
Hubbard Creek near Bowie, CO	09132920	20.7	1968–74
North Fork Gunnison River near Paonia, CO	09133000	653	1921–32
Minnesota Creek at Paonia, CO	09134050	53.5	1976–79
Cottonwood Creek near Hotchkiss, CO	09134200	41.0	1976–79
Leroux Creek near Cedaredge, CO	09134500	34.5	1936–56, 1960–69
Cow Creek near Cedaredge, CO	09134700	7.24	1960–69
Leroux Creek near Lazear, CO	09135000	51.8	1917–26
Leroux Creek at Hotchkiss, CO	09135900	66.7	1976–96
Gunnison River near Lazear, CO	09136200	5,241	1962–85
Currant Creek near Cedaredge, CO	09136500	42.2	1948–54
Currant Creek near Read, CO	09137050	56.9	1976–87
Dirty George Creek near Grand Mesa, CO	09137800	10.6	1957–69
Ward Creek near Grand Mesa, CO	09139200	12.2	1957–69
Ward Creek near Cedaredge, CO	09139500	20.4	1939–46
Kiser Creek near Grand Mesa, CO	09140200	5.35	1957–69
Kiser Creek near Cedaredge, CO	09140500	10.8	1939–46
Cottonwood Creek near Grand Mesa, CO	09140700	2.15	1957–68

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OR STAGE-ONLY STATIONS—CONTINUED**

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Cottonwood Creek near Cedaredge, CO	09141000	4.39	1939–46
Youngs Creek near Grand Mesa, CO	09141200	10.3	1957–69
Youngs Creek near Cedaredge, CO	09141500	11.3	1939–46
Ward Creek below Kiser Creek near Cedaredge, CO	09142000	52.2	1944–52
Surface Creek at Eckert, CO	09144000	43.6	1939–51
Tongue Creek at Cory, CO	09144200	197	1957–68, 1976–87
Red Mountain Creek near Ironton, CO	09144500	18.1	1947–55
Uncompahgre River At Ouray, CO	09145000	42.0	1908, 1910–24
Canyon Creek at Ouray, CO	09145500	25.8	1910–15
Uncompahgre River below Ouray, CO	09146000	75.2	1913–29
West Fork Dallas Creek near Ridgway, CO	09146400	14.1	1955–70
East Fork Dallas Creek near Ridgway, CO	09146500	16.8	1947–53 1960–70
Beaver Creek near Ridgway, CO	09146550	12.2	1960–68
Pleasant Valley Creek near Noel, CO	09146600	8.17	1955–67
Cow Creek near Ridgway, CO	09147100	45.4	1955–73
Spring Creek near Beaver Hill, CO	09149400	41.6	1977–81
Spring Creek near Montrose, CO	09149420	76.6	1977–81
Dry Creek at Begonia Road near Delta, CO	09149480	175	1996–98
Potter Creek near Columbine Pass, CO	09149900	7.10	1980–81
Potter Creek near Olathe, CO	09149910	26.0	1980–81
Roubideau Creek at mouth near Delta, CO	09150500	242	1938–54, 1976–83
Escalante Creek near Delta, CO	09151500	209	1922–23, 1970–89
Kannah Creek near Whitewater, CO	09152000	61.9	1917–82
Callow Creek at Whitewater, CO	09152520	4.17	2000–2003
Orchard Mesa Drain at Grand Junction, CO	09152600	3.70	1973–83
Leach Creek at Durham, CO	09152650	24.8	1973–83
Adobe Creek near Fruita, CO	09152900	15.4	1973–83
Colorado River near Fruita, CO	09153000	17,100	1907–23
Big Salt Wash at Fruita, CO	09153270	142	1973–77
Reed Wash near Mack, CO	09153290	15.7	1975–2000
Reed Wash near Loma, CO	09153300	29.3	1973–83
West Salt Creek near Carbonera, CO	09153330	95.6	1979–82
West Salt Creek near Mack, CO	09153400	168	1973–83
Badger Wash near Mack, CO	09163050	6.51	1973–82
East Salt Creek near Mack, CO	09163310	197	1973–82
Mack Wash near Mack, CO	09163340	15.9	1973–82
Salt Creek near Mack, CO	09163490	436	1973–83
Hay Press Creek above Fruita Reservoir 3 near Glade Park, CO	09163570	0.77	1983–88
West Fork Dolores River near Stoner, CO	09166000	162	1941–44

**DISCONTINUED SURFACE-WATER DISCHARGE
OR STAGE-ONLY STATIONS—CONTINUED**

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

[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Lost Canyon Creek at Dolores, CO	09167000	73.5	1922–27, 1941–48
Plateau Creek near mouth near Dolores, CO	09167450	83.0	1982–83
Dolores River near McPhee, CO	09167500	817	1938–52
Disappointment Creek near Dove Creek, CO	09168100	147	1957–86
Dolores River near Slick Rock, CO	09168730	1,432	1997–2003
Big Gypsum Creek near Slick Rock, CO	09168800	43.9	1979–81
West Paradox Creek near Paradox, CO	09170500	23.6	1944–52
West Paradox Creek above Bedrock, CO	09170800	53.3	1971–73
West Paradox Creek near Bedrock, CO	09171000	55.3	1944–52
San Miguel River near Telluride, CO	09171200	42.8	1959–65
San Miguel River at Fall Creek, CO	09171500	167	1895–99, 1910
Fall Creek near Fall Creek, CO	09172000	33.4	1941–59
Leopard Creek at Noel, CO	09172100	9.03	1955–63
Saltado Creek near Norwood, CO	09172600	--	1976–80
Gurley Ditch near Norwood, CO	09172700	--	1976–80
West Beaver Creek near Norwood, CO	09172800	--	1976–80
Beaver Creek near Norwood, CO	09173000	40.6	1941–61, 1962–67, 1975–81
Horsefly Creek near Sams, CO	09173500	28.8	1942–51
San Miguel River near Nucla, CO	09174000	649	1953–62
Cottonwood Creek near Nucla, CO	09174500	38.8	1942–51
West Naturita Creek at upper station near Norwood, CO	09174700	7.31	1976–80
West Naturita Creek near Norwood, CO	09175000	53.0	1940–52, 1975–80
Lilylands Canal near Norwood, CO	09175200	--	1976–80
Maverick Draw near Norwood, CO	09175400	41.3	1976–80
San Miguel River at Naturita, CO	09175500	1,069	1917–29, 1940–81
Tabeguache Creek near Nucla, CO	09176500	16.9	1946–53
Taylor Creek near Gateway, CO	09177500	15.4	1944–67
Deep Creek near Paradox, CO	09178000	4.31	1944–53
Geysers Creek near Paradox, CO	09178500	--	1944–51
Roc Creek near Uranium, CO	09179000	75.8	1944–52
Salt Creek near Gateway, CO	09179200	31.2	1979–85
Dolores River at Gateway, CO	09179500	4,347	1936–54
Vermillion Creek at Ink Springs Ranch, CO	09235450	816	1977–81
Vermillion Creek below Douglas Draw, near Lodore, CO	09235490	918	1995
Bear River near Toponas, CO	09236000	22.1	1952–65, 1966–86
Bear River near Yampa, CO	09236500	41.6	1939–44

**DISCONTINUED SURFACE-WATER DISCHARGE
OR STAGE-ONLY STATIONS—CONTINUED**

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Service Creek near Oak Creek, CO	09237800	38.2	1965–73
Oak Creek near Oak Creek, CO	09238000	14.0	1952–57
North Fork Walton Creek near Rabbit Ears Pass, CO	09238300	0.71	1972–75
Fishhook Creek near Rabbit Ears Pass, CO	09238350	6.45	1972–75
Walton Creek near Steamboat Springs, CO	09238500	42.4	1920–22, 1965–73, 1978–87
Fish Creek Tributary above Long Lake near Buffalo Pass, CO	09238700	0.43	1984–86
Long Lake Inlet near Buffalo Pass, CO	09238705	0.71	1987–95
Fish Creek Tributary below Long Lake, near Buffalo Pass, CO	09238710	1.03	1985–95
Middle Fork Fish Creek near Buffalo Pass, CO	09238750	1.37	1985–95
Granite Creek near Buffalo Pass, CO	09238770	2.82	1985–95
Middle Fork Fish Creek tributary, below Fish Creek Reservoir, CO	09238800	4.78	1984–94
Spring Creek near Steamboat Springs, CO	09239400	6.96	1965–72
Elk River at Hinman Park, CO	09240500	61.0	1911–18
South Fork Elk River near Clark, CO	09240800	33.7	1966–73
Elk River above Clark, CO	09240900	122	1988–93, 1998–2003
Elk River at Clark, CO	09241000	216	1910–22, 1930–91, 1998–2003
Middle Creek near Oak Creek, CO	09243700	23.5	1976–81, 1982–2001
Foidel Creek near Oak Creek, CO	09243800	8.61	1976–81, 82–83, 1985–2001
Foidel Creek at mouth near Oak Creek, Co	09243900	17.5	1976–81, 1982–2001
Fish Creek near Milner, CO	09244100	34.5	1955–73
Grassy Creek near Mount Harris, CO	09244300	25.8	1958–66
Yampa River near Hayden, CO	09244400	1,390	1965–72
Gibraltar Canal near Hayden, CO	09244405	--	1965–72
Yampa River below diversion near Hayden, CO	09244410	1,390	1965–86
Sage Creek above Sage Creek Reservoir near Hayden, CO	09244415	4.17	1980–83
Watering Trough Gulch near Hayden, CO	09244460	2.65	1977–81
Hubberson Gulch near Hayden, CO	09244464	8.08	1977–81
Stokes Gulch near Hayden, CO	09244470	13.6	1976–81
Elkhead Creek near Clark, CO	09244500	45.4	1942–44, 1958–73
Elkhead Creek near Elkhead, CO	09245000	64.2	1953–96
North Fork Elkhead Creek near Elkhead, CO	09245500	21.0	1910, 1920, 1958–73
Elkhead Creek near Craig, CO	09246500	249	1906, 1909–18

**DISCONTINUED SURFACE-WATER DISCHARGE
OR STAGE-ONLY STATIONS—CONTINUED**

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Fortification Creek near Craig, CO	09246900	34.3	1955–60
Fortification Creek at Craig, CO	09247000	258	1903–06, 1909–18, 1943–47
Yampa River at Craig, CO	09247500	1,730	1901–06,
East Fork of Williams Fork near Willow Creek, CO	09248500	96.0	1943–47
East Fork of Williams Fork above Willow Creek, CO	09248600	108	1956–72
East Fork of Williams Fork near Pagoda, CO	09249000	150	1953–71
South Fork of Williams Fork near Pagoda, CO	09249200	46.7	1965–79
Waddle Creek near Pagoda, CO	09249450	5.24	1985–86
Deep Rock Gulch near Hamilton, CO	09249455	3.53	1985–86
Williams Fork at Hamilton, CO	09249500	341	1904–06, 1909–27
Morapos Creek near Hamilton, CO	09249700	13.7	1965–67
Williams Fork River at mouth, near Hamilton, CO	09249750	419	1984–2001
Milk Creek near Thornburgh, CO	09250000	65.0	1952–86
Good Spring Creek at Axial, CO	09250400	40.0	1975–78
Wilson Creek above Taylor Creek near Axial, CO	09250507	20.0	1980–92
Taylor Creek at mouth near Axial, CO	09250510	7.22	1975–92
Jubb Creek near Axial, CO	09250610	7.53	1975–81
Morgan Gulch near Axial, CO	09250700	25.6	1980–81
Yampa River above Little Snake River near Maybell, CO	09251100	3,837	1996–2003
Middle Fork Little Snake River near Battle Creek, CO	09251500	120	1912–22
South Fork Little Snake River near Battle Creek, CO	09252500	46.0	1912–20
Battle Creek near Slater, CO	09253500	285	1942–51
Slater Fork at Baxter Ranch near Slater, CO	09254500	80.0	1911–20, 1922
Little Snake River near Dixon, WY	09257000	988	1910–23, 1938–97
Willow Creek near Dixon, WY	09258000	24.0	1953–93
Little Snake River above Lily, CO	09259950	--	1950–69
Sand Wash near Sunbeam, CO	09259990	239	1987–91
North Fork White River below Trappers Lake, CO	09302400	19.5	1956–65
North Fork White River above Ripple Creek near Trappers Lake, CO	09302420	62.5	1965–73
Lost Creek near Buford, CO	09302450	21.5	1964–89
Marvine Creek near Buford, CO	09302500	59.7	1903–06, 1973–84
North Fork White River near Buford, CO	09302800	220	1903–06, 1956–72
North Fork White River at Buford, CO	09303000	259	1910–16, 1919–21, 1952–2001
South Fork White River at Budge's Resort, CO	09303300	52.3	1975–95

**DISCONTINUED SURFACE-WATER DISCHARGE
OR STAGE-ONLY STATIONS—CONTINUED**

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Wagonwheel Creek at Budge's Resort, CO	09303320	7.36	1975–89
Patterson Creek near Budge's Resort, CO	09303340	11.2	1976–77
South Fork White River near Budge's Resort, CO	09303400	128	1976–95
South Fork White River near Buford, CO	09303500	157	1903–06, 1910–15, 1942–47, 1967–92
South Fork White River at Buford, CO	09304000	177	1919–20, 1952–97
Big Beaver Creek near Buford, CO	09304100	34.1	1955–64
Miller Creek near Meeker, CO	09304150	57.6	1970–79
Coal Creek near Meeker, CO	09304300	25.1	1957–68
White River at Meeker, CO	09304600	808	1978–85
Piceance Creek at Rio Blanco, CO	09305500	8.97	1952–57
Piceance Creek below Rio Blanco, CO	09306007	177	1974–98
Middle Fork Stewart Gulch near Rio Blanco, CO	09306015	24.0	1974–76, 1977–82
Stewart Gulch above West Fork near Rio Blanco, CO	09306022	44.0	1976–85
West Fork Stewart Gulch near Rio Blanco, CO	09306025	14.2	1974–76, 1977–82
West Fork Stewart Gulch at mouth near Rio Blanco, CO	09306028	15.7	1974–82
Sorghum Gulch near Rio Blanco, CO	09306033	1.22	1974–76, 1977–82
Sorghum Gulch at mouth near Rio Blanco, CO	09306036	3.62	1974–86
Cottonwood Gulch near Rio Blanco, CO	09306039	1.20	1974–85
Piceance Creek Tributary near Rio Blanco, CO	09306042	1.06	1974–84, 1985–92
Piceance Creek below Gardenhire Gulch near Rio Blanco, CO	09306045	255	1980–82, 1985
Scandard Gulch near Rio Blanco, CO	09306050	6.61	1974–76, 1978–82
Scandard Gulch at mouth near Rio Blanco, CO	09306052	7.97	1974–85
Willow Creek near Rio Blanco, CO	09306058	48.4	1974–85
Piceance Creek above Hunter Creek near Rio Blanco, CO	09306061	309	1974–87
Black Sulphur Creek near Rio Blanco, CO	09306175	103	1975–83
Horse Draw near Rangely, CO	09306202	1.47	1977–81
Horse Draw at mouth near Rangely, CO	09306203	2.87	1977–81
White River above Crooked Wash near White River City, CO	09306224	1,821	1982–89
Stake Springs Draw near Rangely, CO	09306230	26.1	1974–77
Corral Gulch below Water Gulch near Rangely, CO	09306235	8.61	1974–89
Dry Fork near Rangely, CO	09306237	2.74	1974–82
Box Elder Gulch near Rangely, CO	09306240	9.21	1974–85
Box Elder Gulch Tributary near Rangely, CO	09306241	2.39	1975–82
Corral Gulch at 84 Ranch, CO	09306244	37.8	1975–77

**DISCONTINUED SURFACE-WATER DISCHARGE
OR STAGE-ONLY STATIONS—CONTINUED**

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Yellow Creek Tributary near 84 Ranch, CO	09306246	5.53	1975–77
Duck Creek at Upper Station near 84 Ranch, CO	09306248	39.1	1975–77
Duck Creek near 84 Ranch, CO	09306250	50.0	1975–77
White River above Rangely, CO	09306300	2,773	1972–82
Douglas Creek at Rangely, CO	09306380	425	1977–78, 1995
East Fork San Juan River above Sand Creek, near Pagosa Springs, CO	09339900	64.1	1957–1996, 1999–2003
East Fork San Juan River near Pagosa Springs, CO	09340000	86.9	1935–80
West Fork San Juan River above Borns Lake near Pagosa Springs, CO	09340500	41.2	1937–53
West Fork San Juan River at West Fork Campground near Pagosa Springs, CO	09340800	50.5	1984–87, 1997–99
Wolf Creek near Pagosa Springs, CO	09341200	14.0	1968–75
Wolf Creek at Wolf Creek Campground near Pagosa Springs, CO	09341300	18.0	1984–87, 1997–99
Windy Pass Creek near Pagosa Springs, CO	09341350	1.41	1984–87
West Fork San Juan River near Pagosa Springs, CO	09341500	85.4	1935–60, 1985–87, 1997–98
Turkey Creek near Pagosa Springs, CO	09342000	23.0	1937–49
Rio Blanco near Pagosa Springs, CO	09343000	58.0	1935–71
Rio Blanco below Blanco diversion dam near Pagosa Springs, CO	09343300	69.1	1971–98
Rito Blanco near Pagosa Springs, CO	09343500	23.3	1935–52
Navajo River at Banded Peak Ranch near Chromo, CO	09344000	69.8	1937–95
Navajo River above Chromo, CO	09344300	96.4	1956–70
Navajo River below OSO diversion dam near Chromo, CO	09344400	100.5	1971–98
Little Navajo River at Chromo, CO	09345500	21.9	1935–52
Navajo River at Edith, CO	09346000	172	1912–96
Middle Fork Piedra River near Pagosa Springs, CO	09347200	32.2	1969–75
Middle Fork Piedra River near Dyke, CO	09347205	34.1	1978–84
Piedra River at Bridge Ranger Station near Pagosa Springs, CO	09347500	82.3	1936–41, 1946–54
Williams Creek near Bridge Ranger Station near Pagosa Springs, CO	09348500	43.7	1936–41, 1946–49
Weminuche Creek near Bridge Ranger Station near Pagosa Springs, CO	09349000	53.4	1936–41, 1946–49
Piedra River near Piedra, CO	09349500	371	1911–12, 1938–73
Los Pinos River near Bayfield, CO	09353500	270	1927–86
Animas River at Howardsville, CO	09357500	55.9	1935–82
Cement Creek near Silverton, CO	09358500	13.5	1935–37, 1946–49
Mineral Creek above Silverton, CO	09358900	11.0	1968–75
Mineral Creek near Silverton, CO	09359000	43.9	1935–49

**DISCONTINUED SURFACE-WATER DISCHARGE
OR STAGE-ONLY STATIONS—CONTINUED**

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Lime Creek near Silverton, CO	09359100	33.9	1956–61
Animas River above Tacoma, CO	09359500	348	1945–56
Hermosa Creek near Hermosa, CO	09361000	172	1911, 1912–14, 1919–28, 1939–80
Falls Creek near Durango, CO	09361200	7.18	1959–65
Junction Creek near Durango, CO	09361400	26.3	1959–65
Lightner Creek near Durango, CO	09362000	66.0	1927–49
Wilson Gulch near Durango, CO	09362550	6.5	1995–2002
Rainbow Springs Trout Ranch near Bondad, CO	09362600	--	1995–97
Florida River near Hermosa, CO	09362900	68.8	1955–63
Florida River near Durango, CO	09363000	97.4	1899, 1901–03, 1910–12, 1917–24, 1926–60
Florida River below Florida Farmers Ditch near Durango, CO	09363050	107	1967–82
Highway Spring near Loma Linda, CO	09363070	--	1995–97
Salt Creek near Oxford, CO	09363100	17.7	1956–63, 1967–83
Florida River at Bondad, CO	09363200	221	1956–63, 1967–83
Cherry Creek near Red Mesa, CO	09366000	66.0	1928–50
West Mancos River near Mancos, CO	09368500	39.4	1910–11, 1938–53
East Mancos River near Mancos, CO	09369000	11.9	1937–51
Middle Mancos River near Mancos, CO	09369500	12.1	1937–51
Mancos River near Mancos, CO	09370000	71.5	1921, 1931–38
Mancos River near Cortez, CO	09370800	302	1976–79
Mancos River below Johnson Canyon near Cortez, CO	09370820	320	1979–82
Navajo Wash near Towaoc, CO	09371002	26.3	1986–94
Hartman Draw at Cortez, CO	09371400	34.0	1978–86
McElmo Creek above Alkali Canyon near Cortez, CO	09371420	147	1972–86
Mud Creek near Cortez, CO	09371495	33.6	1978–81
McElmo Creek near Cortez, CO	09371500	230	1926–29, 1940–45, 1950–54, 1982–93
McElmo Creek below Cortez, CO	09371700	283	1972–83

^aConverted to a crest-stage partial-record station.

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. S.C.	1970–86 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 Georgetown, CO	06714400	--	Temp., S.C., Sed.	1995–97 1995,1997
South Clear Creek above Leavenworth Creek near Georgetown, CO	06714600	16.0	Temp., S.C. Sed.	1995–97 1995
Leavenworth Creek at mouth, near Georgetown, CO	06714800	12.0	Temp., S.C. Sed.	1995–97 1995
Clear Creek at Golden, CO	06719505	400	pH, D.O., Sed. Temp., S.C.	1981 1981–95
Ralston Creek near Plainview, CO	06719725	36.9	Temp., S.C., pH, D.O.	1983–84
Schwartzwalder Mine Effluent near Plainview, CO	06719730	--	Temp., S.C., pH, D.O.	1983–84
Ralston Creek below Schwartzwalder Mine, CO	06719735	38.9	Temp., S.C., pH, D.O.	1983–84
Ralston Creek above Ralston Res. near Plainview, CO	06719740	42.7	Temp., S.C., pH, D.O.	1983–84
Cache La Poudre River 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 (Chan. 2)	06763990	--	Temp. S.C.	1967–73 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	S.C., pH	1989–93
Badger Creek, upper station, near Howard, CO	07093740	106	Temp. Sed.	1995–2003 1981–2003
Badger Creek, lower station, near Howard, CO	07093775	211	Temp. Sed.	1995–2003 1981–95
Arkansas River at Parkdale, CO	07094500	2,548	S.C.	1986–93
Red Creek below Sullivan Park at Fort Carson, CO	07099080	26.6	Sed.	2000–2003
Fountain Creek near Colorado Springs, CO	07103700	103	Sed.	1995–2003
Cottonwood Creek at Cowpoke Road at Colorado Springs, CO	07103977	5.93	Sed.	1998–2003

DISCONTINUED SURFACE-WATER-QUALITY STATIONS—CONTINUED

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record (water years)
Cottonwood Creek Tributary above Rangewood Drive at Colorado Springs, CO	07103985	2.81	Sed.	1998–2003
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. Sed.	1978–81 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. Sed.	1979–81 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	--	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. Temp., S.C.	1983–92 1983–98
Burke Arroyo Tributary near Thatcher, CO	07126320	4.66	Temp., S.C. Sed.	1983–86 1984–86
Taylor Arroyo below Rock Crossing near Thatcher, CO	07126325	48.4	Temp., S.C.	1983–98
Lockwood Canyon Creek near Thatcher, CO	07126390	41.4	Temp., S.C., Sed.	1989–92
Red Rock Canyon Creek at mouth, near Thatcher, CO	07126415	48.8	Temp., S.C.	1983–90 ^a
Chacuaco Creek at mouth near Timpas, CO	07126470	424	Temp., S.C., Sed.	1983–92
Bent Canyon Creek at mouth near Timpas, CO	07126480	56.2	Temp., S.C.	1983–90 ^a
Purgatoire River at Rock Crossing near Timpas, CO	07126485	2,635	Temp., S.C., Sed.	1983–92
Purgatoire River at Highland Dam near Las Animas, CO	07128000	3,376	S.C.	1967–68
Purgatoire River near Las Animas, CO	07128500	3,318	Temp., S.C.	1986–96
Willow Creek at Creede, CO	08216500	35.3	Temp., S.C.	1976–77
Rio Grande at Wagonwheel Gap, CO	08217500	780	Temp., S.C.	1976–77
San Luis Creek near Poncha Pass, CO	08224110	6.57	Sed.	1981–83
San Luis Creek above Villa Grove, CO	08224113	11.2	Sed.	1981–83
Alamosa River above Wightman Fork near Jasper, CO	08235250	37.8	Temp., S.C., pH	1995–97,99
Wightman 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

DISCONTINUED SURFACE-WATER-QUALITY STATIONS—CONTINUED

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record (water years)
Colorado River below Baker Gulch near Grand Lake, Co	09010500	53.4	Temp.	1997–98
Colorado River at Hot Sulphur Springs, CO	09034500	825	Temp., S.C.	1947–94
Williams Fork near Parshall, CO	09037500	184	Temp., S.C.	1986–87
Williams Fork below Williams Fork Reservoir, CO	09038500	230	Temp., S.C.	1985–87
Muddy Creek at Kremmling, CO	09041500	290	Temp., S.C.	1986–87, 1990–95
French Gulch at Breckenridge, CO	09046530	10.9	Temp.	1997–98
West Tenmile Creek at Copper Mountain, CO	09049200	21.0	Sed.	1973–79
Boulder Creek near Dillon, CO	09052500	9.89	Temp., S.C.	1982
Blue River above Green Mountain Reservoir, CO	09053500	511	Temp. S.C.	1986 1986–87
Blue River below Green Mountain Reservoir, CO	09057500	599	Temp., S.C.	1995–99
Rock Creek at Crater, CO	09060550	72.6	Temp., S.C.	1986–87
Black Gore Creek near Vail, CO	09066050	19.6	Sed.	1973–79
Gore Creek at Vail, CO	09066250	57.3	Sed.	1973–79
Gore Creek at mouth near Minturn, CO	09066510	102	Temp. S.C.	1997–98 1997
Colorado River near Dotsero, CO	09070500	4,394	Temp., S.C. Temp.	1980–84 1997–98
Colorado River near Glenwood Springs, CO	09071100	4,560	Sed. Temp.	1959–61 1969–70, 1980–85
Colorado River at Glenwood Springs, CO	09072500	4,558	S.C. Temp. Sed.	1980–85 1954–58 1959–61
Roaring Fork River above Difficult Creek near Aspen, CO	09073300	75.8	Temp., S.C.	2000
Hunter Creek above Midway Creek near Aspen, CO	09073700	6.18	Temp., S.C.	1976–77
Roaring Fork River at Glenwood Springs, CO	09085000	1,451	Temp., S.C. Sed.	1980–84 1959–61
Colorado River below Glenwood Springs, CO	09085100	6,013	Temp., S.C.	1980–84
East Middle Fork Parachute Cr near Rio Blanco, CO	09092850	22.1	Temp., S.C. Sed.	1976–82 1977–82
East Fork Parachute Creek near Rulison, CO	09092970	20.4	Temp. S.C. Sed.	1977–78, 1980–83 1977–83 1978, 1980–83
Parachute Creek near Parachute, CO	09093000	141	Temp., S.C. Sed.	1975–80 1974–75
Parachute Creek at Parachute, CO	09093500	198	Temp., S.C. Sed.	1975–80 1974–82
Colorado River near De Beque, CO	09093700	7,370	Temp., S.C. Sed.	1973–82 1974–76
Roan Creek near De Beque, CO	09095000	321	Temp., S.C. Sed.	1975–80 1975–81
Dry Fork at Upper Station near DeBeque, CO	09095300	97.4	Temp.	1997–98

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record (water years)
Government Highline Canal near Mack, CO	09095530	--	Temp. S.C.	1973–80 1974–80
Plateau Creek near Cameo, CO	09105000	592	Temp., S.C.	1971–75
Lewis Wash near Grand Junction, CO	09106200	4.72	Temp., S.C.	1973–77
East River below Cement Creek near Crested Butte, CO	09112200	238	S.C., D.O., Temp.	1995–97 1995–98
Gunnison River below Gunnison Tunnel, CO	09128000	3,965	Temp.	1997–98
Uncompahgre River near Ridgway, CO	09146200	149	Temp.	1997–98
Dry Creek at Begonia Road near Delta, CO	09149480	175	Temp. S.C.	1997–98 1997
Uncompahgre River at Delta, CO	09149500	1,115	Sed.	1959
Potter Creek near Columbine Pass, CO	09149900	7.10	Temp., S.C.	1981
Potter Creek near Olathe, CO	09149910	26.0	Temp., S.C.	1981
Orchard Mesa Drain at Grand Junction, CO	09152600	3.70	Temp., S.C.	1973–77
Leach Creek at Durham, CO	09152650	24.8	Temp., S.C.	1973–77
Adobe Creek near Fruita, CO	09152900	15.4	Temp., S.C.	1973–80
Big Salt Wash at Fruita, CO	09153270	142	Temp., S.C.	1973–77
Reed Wash near Mack, CO	09153290	15.7	Temp. S.C.	1997–98 1997
Reed Wash near Loma, CO	09153300	29.3	Temp., S.C.	1973–83
West Salt Creek near Carbonera, CO	09153330	95.6	Temp., S.C.	1981–82
West Salt Creek near Mack, CO	09153400	168	Temp., S.C.	1973–84
Badger Wash Observation Res 4-A near Mack, CO	09160000	.02	Temp., S.C.	1981
Badger Wash Observation Res 12 near Mack, CO	09160500	.09	Temp., S.C.	1981–82
Badger Wash Observation Res 2-A near Mack, CO	09161000	.15	Temp., S.C.	1981
Badger Wash near Mack, CO	09163050	6.51	Temp., S.C.	1973–80
East Salt Creek near Mack, CO	09163310	197	Temp., S.C.	1973–82
Mack Wash near Mack, CO	09163340	15.9	Temp. S.C.	1973–82 1974–82
Salt Creek near Mack, CO	09163490	436	Temp., S.C.	1973–83
Disappointment Creek near Dove Creek, CO	09168100	147	Temp., S.C.	1984
Big Gypsum Creek near Slick Rock, CO	09168800	43.9	Temp., S.C.	1981
Dolores River below W. Paradox Cr near Bedrock, CO	09171070	2,144	Temp., S.C.	1986–87
Salt Creek near Gateway, CO	09179200	31.2	Temp., S.C.	1981–85
Dolores River at Gateway, CO	09179500	4,347	Temp.	1949–52
Yampa River near Oak Creek, CO	09237500	227	Sed.	1985–88
Middle Creek near Oak Creek, CO	09243700	23.5	Temp., S.C.	1976–81
Foidel Creek near Oak Creek, CO	09243800	8.61	Temp., S.C.	1976–83, 1986–88
Foidel Creek at mouth near Oak Creek, CO	09243900	17.5	Temp., S.C. Sed.	1976–81 1978–81
Sage Creek above Sage Creek Res. near Hayden, CO	09244415	4.17	Temp., S.C.	1981–83
Watering Trough Gulch near Hayden, CO	09244460	2.65	Temp., S.C.	1979–81
Hubberson Gulch near Hayden, CO	09244464	8.08	Temp., S.C.	1979–81
Stokes Gulch near Hayden, CO	09244470	13.6	Temp., S.C., Sed.	1978–81
Elkhead Creek above Long Gulch near Hayden, CO	09246200	171	Temp., S.C.	1995–99, 2001–2003

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Station name	Station number	Drainage area (sq mi)	Type of record	Period of record (water years)
Elkhead Creek below Maynard Gulch near Craig, CO	09246400	212	Temp., S.C.	1995–99, 2001–2003
Good Spring Creek at Axial, CO	09250400	40.0	Temp. S.C.	1975–78 1974–78
Wilson Creek above Taylor Creek near Axial, CO	09250507	20.0	Temp., S.C., Sed.	1980–81
Taylor Creek at mouth near Axial, CO	09250507	7.22	Temp., S.C.	1976–81
Wilson Creek near Axial, CO	09250600	27.4	Temp. S.C. Sed.	1975–80 1974–80 1976–80
Jubb Creek near Axial, CO	09250610	7.53	Temp., S.C.	1976–81
Morgan Gulch near Axial, CO	09250700	25.6	Temp., S.C.	1980–81
Little Snake River above Lily, CO	09259950	3,730	Temp., S.C. Sed.	1950–69 1958–64
Little Snake River near Lily, CO	09260000	3,730	Temp., S.C. Sed.	1975–85 1958–64
Yampa River at Deerlodge Park, CO	09260050	7,660	Temp., S.C.	1977–82
White River above Coal Creek, near Meeker, CO	09304200	648	Temp., S.C.	1978–84
White River near Meeker, CO	09304500	755	Temp., S.C.	1973–74
White River at Meeker, CO	09304600	808	Temp., S.C.	1978–85
White River below Meeker, CO	09304800	1,024	Temp., S.C.	1978–85
Piceance Creek below Rio Blanco, CO	09306007	177	Temp., S.C., Sed.	1974–85
Middle Fork Stewart Gulch near Rio Blanco, CO	09306015	24.0	Temp., S.C. Sed.	1976, 1981 1976
Stewart Gulch above West Fork near Rio Blanco, CO	09306022	44.0	Temp., S.C., Sed.	1974–82
West Fork Stewart Gulch near Rio Blanco, CO	09306025	14.2	Temp. S.C.	1974–76, 1980–81 1975–76, 1980–81
West Fork Stewart Gulch at mouth near Rio Blanco, CO	09306028	15.7	Sed. Temp. S.C.	1974–76 1980–81 1977, 1980–81
Sorghum Gulch near Rio Blanco, CO	09306033	1.22	Temp., S.C. Sed.	1975–76, 1980 1975–76
Sorghum Gulch at mouth near Rio Blanco, CO	09306036	3.62	Temp., S.C. Sed.	1976, 1978, 1980 1975–77, 1982
Cottonwood Gulch near Rio Blanco, CO	09306039	1.20	Temp., S.C. Sed.	1976–78, 1980 1974–77, 1980

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record (water years)
Piceance Creek Tributary near Rio Blanco, CO	09306042	1.06	Temp., S.C.	1974–86
			Sed.	1974–82
Piceance Creek below Gardenhire Gulch near Rio Blanco, CO	09306045	255	Temp., S.C.	1980–81
Scandard Gulch near Rio Blanco, CO	09306050	6.61	Temp., S.C.	1980
			Sed.	1975–76
Scandard Gulch at mouth near Rio Blanco, CO	09306052	7.97	Temp., S.C.	1976, 1978, 1980
			Sed.	1974–76, 1980
Willow Creek near Rio Blanco, CO	09306058	48.4	Temp., S.C.	1974–82
			pH, D.O.	1976–82
			Sed.	1974–82
Piceance Creek above Hunter Creek near Rio Blanco, CO	09306061	309	Temp., S.C., Sed.	1974–85
			pH, D.O.	1974–84
Black Sulphur Creek near Rio Blanco, CO	09306175	103	Temp., S.C., Sed.	1975–81
Piceance Creek below Ryan Gulch near Rio Blanco, CO	09306200	506	Sed.	1972–83
			Temp., S.C.	1980–82, 1986–98
Horse Draw near Rangely, CO	09306202	1.47	Sed.	1980
Horse Draw at mouth near Rangely, CO	09306203	2.87	Temp., S.C.	1980
			Sed.	1980–81
Piceance Creek at White River, CO	09306222	652	Temp., S.C., Sed.	1974–83
Stake Springs Draw near Rangely, CO	09306230	26.1	Temp., S.C., Sed.	1977
Corral Gulch below Water Gulch near Rangely, CO	09306235	8.61	Temp., S.C.	1975–85
			Sed.	1974–82
Dry Fork near Rangely, CO	09306237	2.74	Temp., S.C.	1977, 1979, 1982
			Sed.	1975, 1977, 1979, 1981–82
Box Elder Gulch near Rangely, CO	09306240	9.21	Temp., S.C.	1975–85
			Sed.	1975–82
Box Elder Gulch Tributary near Rangely, CO	09306241	2.39	Temp.	1976, 1980–81
			S.C.	1976–77, 1981
			Sed.	1975, 1980, 1982
Corral Gulch near Rangely, CO	09306242	31.6	Temp., S.C.	1975–87
			Sed.	1974–85
Corral Gulch at 84 Ranch, CO	09306244	37.8	Temp., S.C. Sed.	1975–77
Yellow Creek Tributary near 84 Ranch, CO	09306246	5.53	Sed.	1976

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[--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record (water years)
Duck Creek at Upper Station near 84 Ranch, CO	09306248	39.1	Sed.	1976
Duck Creek near 84 Ranch, CO	09306250	50.0	Temp., S.C.	1977
Yellow Creek near White River, CO	09306255	262	Temp., S.C. Sed.	1974–82
Windy Pass Creek near Pagosa Springs, CO	09341350	1.41	Sed.	1986
West Fork San Juan River near Pagosa Springs, CO	09341500	87.9	Sed.	1985–87
Rio Blanco near Pagosa Springs, CO	09343000	58.0	Sed.	1961–62
Navajo River above Chromo, CO	09344300	96.4	Sed.	1961–62
Vallecito Creek near Bayfield, CO	09352900	72.1	Temp.	1962–82
Mancos River near Cortez, CO	09370800	302	Temp., S.C.	1976–79
Mancos River below Johnson Canyon near Cortez, CO	09370820	320	Temp., S.C.	1979–82
Mancos River near Towaoc, CO	09371000	526	Sed.	1961
Hartman Draw at Cortez, CO	09371400	34.0	Temp., S.C.	1978–81
McElmo Creek near Cortez, CO	09371500	230	Temp., S.C.	1982–93

Type of record: Temp. (temperature), S.C. (specific conductance), pH (pH), D.O. (dissolved oxygen), Sed. (sediment).

^aConverted to a crest-stage partial-record station.

