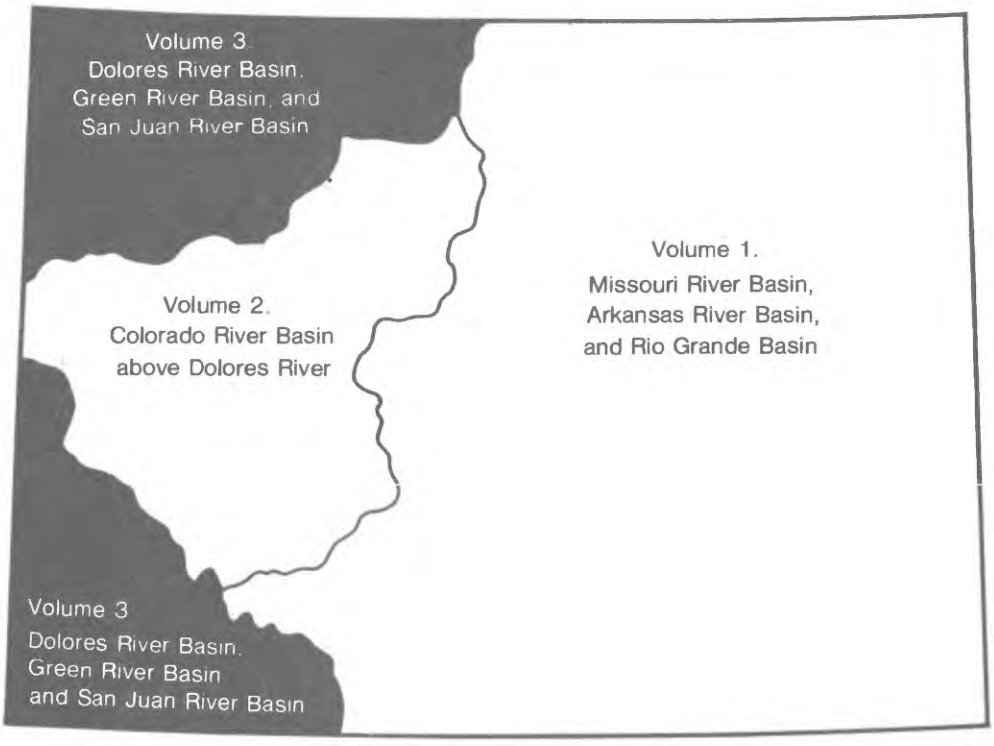
Water Resources Data Colorado Water Year 1985

Volume 3. Dolores River Basin, Green River Basin, and San Juan River Basin



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CO-85-3
Prepared in cooperation with the State of Colorado
and with other agencies

CALENDAR FOR WATER YEAR 1985

1984

OCTOBER

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1985

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SEPTEMBER

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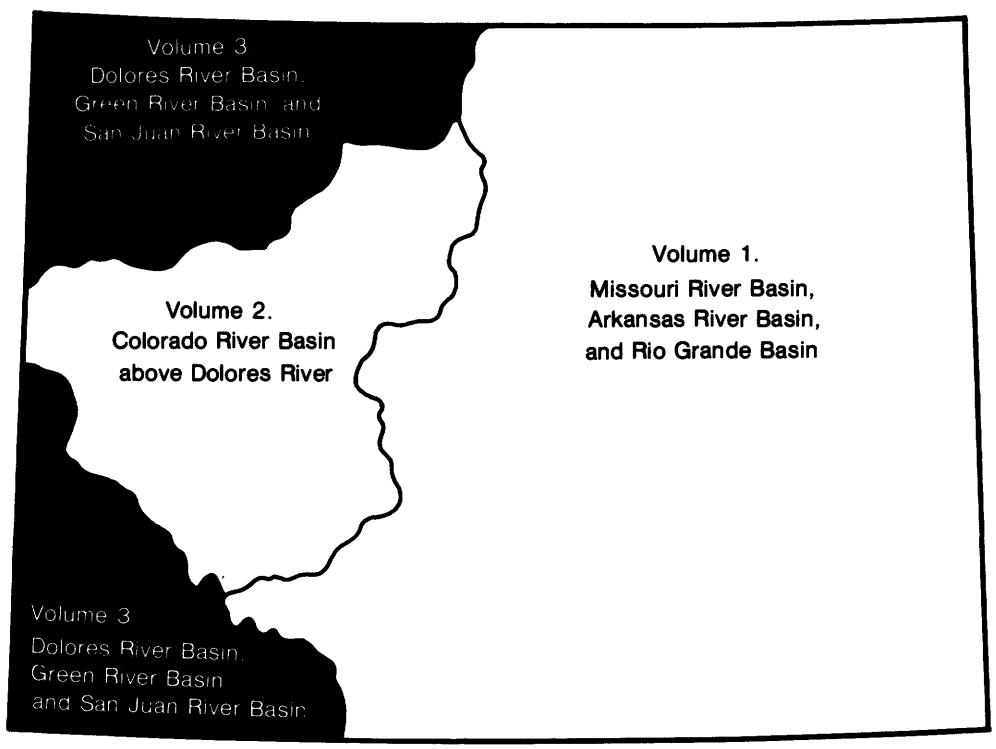
Water Resources Data Colorado Water Year 1985

Volume 3. Dolores River Basin, Green River Basin, and San Juan River Basin

by R.C. Ugland, A.C. Duncan, E.A. Wilson, and J.D. Bennett



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CO-85-3
Prepared in cooperation with the State of Colorado
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

DONALD PAUL HODEL, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information on the water program in Colorado write to:

District Chief, Water Resources Division
U.S. Geological Survey
Box 25046, Mail Stop 415
Denver Federal Center
Lakewood, Co 80225

1986

PREFACE

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

Volume 1. Missouri River, Arkansas River, and Rio Grande basins in Colorado,
Volume 2. Colorado River Basin in Colorado, above the Dolores River, and
Volume 3. Dolores River, Green River, and San Juan River basins in Colorado.

This report is the culmination of a concerted effort by dedicated personnel of the U. S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

T. R. Britton
R. W. Boulger
D. N. Caldwell
R. G. Carver
E. A. Shields
D. W. Grey
C. P. Hollowed
J. E. Kircher
B. P. Leet
M. P. McCarty
R. F. Middelburg Sr.
D. A. Pettijohn
R. W. Teller
J. T. Steinheimer
H. E. Stranathan
R. K. Tucker
M. J. Werito

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

CONTENTS

ILLUSTRATIONS

TABLES

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

Partial tables: (c) chemical, (b) biological, (m) microbiological,
(s) sediment, (t) temperature)

COLORADO RIVER BASIN

VIII GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

X OBSERVATION WELLS, BY COUNTY, FOR WHICH RECORDS ARE PUBLISHED

WATER RESOURCES DATA FOR COLORADO, 1985

VOLUME 3: DOLORES, GREEN, AND SAN JUAN BASINS

By R. C. Ugland, A. C. Duncan, J. D. Bennett and E. A. Wilson

INTRODUCTION

Water-resources data for the 1985 water year for Colorado consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of wells and springs. This report (volumes 1, 2, and 3) contains discharge records for 351 streamflow-gaging stations, stage and contents of 25 lakes and reservoirs, low-flow data for 4 partial-record stations, peak flow information for 34 crest-stage partial-record stations and 1 miscellaneous site; water-quality data for 104 streamflow-gaging stations and 256 miscellaneous sites; and water levels for 53 observation wells. Locations of lake- and streamflow-gaging stations and water-quality stations are shown in figure 1, locations of crest-stage partial-record stations are shown in figure 2, and locations of observation wells are shown in figure 3. Six pertinent stations in bordering States also are included in this report. The records were collected and computed by the Colorado District. These data were collected by the U.S. Geological Survey and cooperating State and Federal agencies in Colorado and represent that part of the National Water Data System.

Records of discharge and stage of streams, and contents and stage of lakes and reservoirs are published in a series of U.S. Geological Survey Water-Supply Papers entitled, "Surface-water Supply of the United States." These water-supply papers were published in an annual series through September 30, 1960, and then in 5-year compilations for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1955 in an annual series of water-supply papers entitled "Water Levels and Artesian Pressures in Wells in the United States," and from 1955 to the present time, in a 5-year series of water-supply papers entitled "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 41, Box 25425, Denver, CO 80225.

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

Beginning with the 1971 water year, water data on streamflow, 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-85-3." These water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone (303) 236-4882.

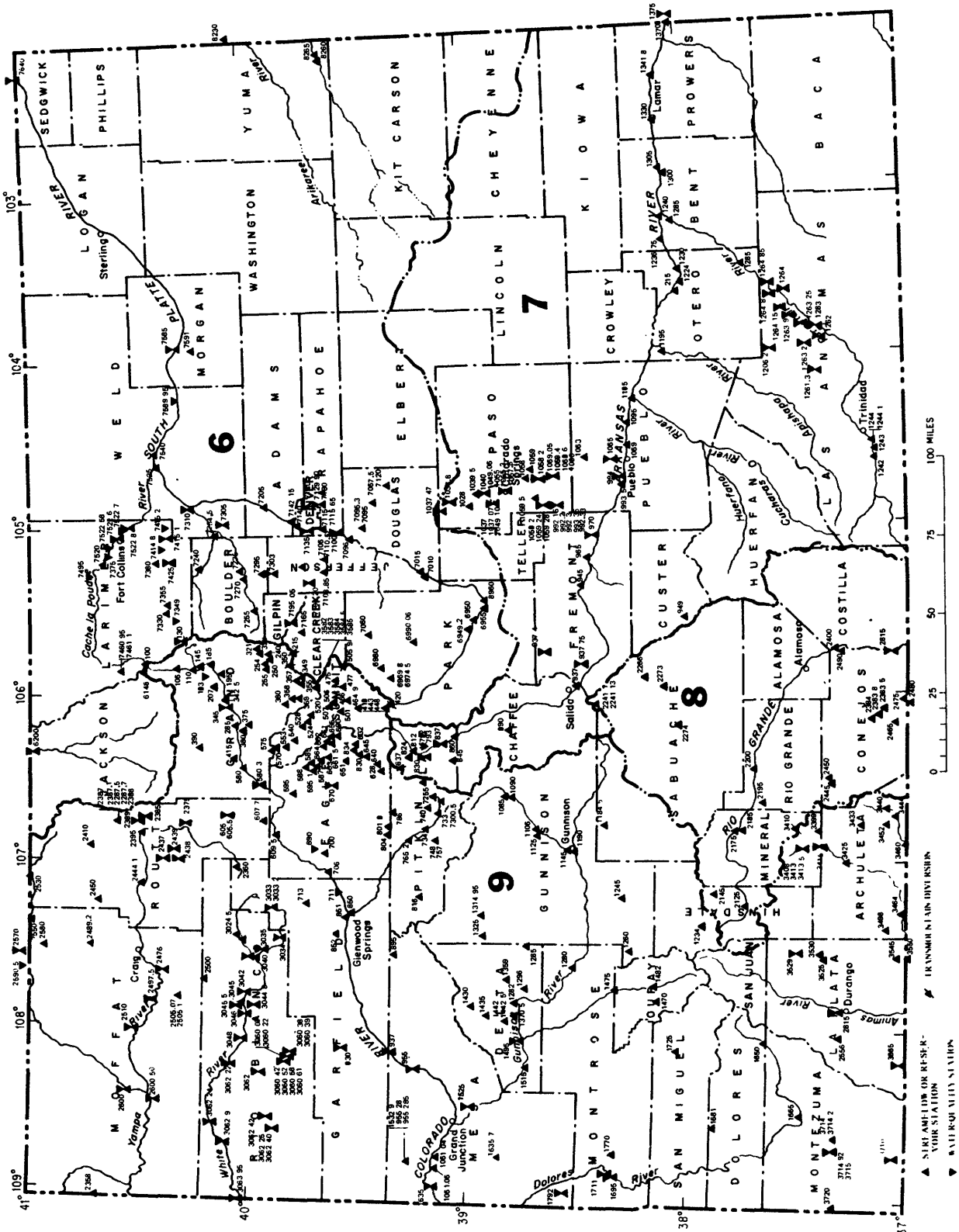


Figure 1.--Map showing locations of lakes and stream-gaging stations and water-quality stations in Colorado.

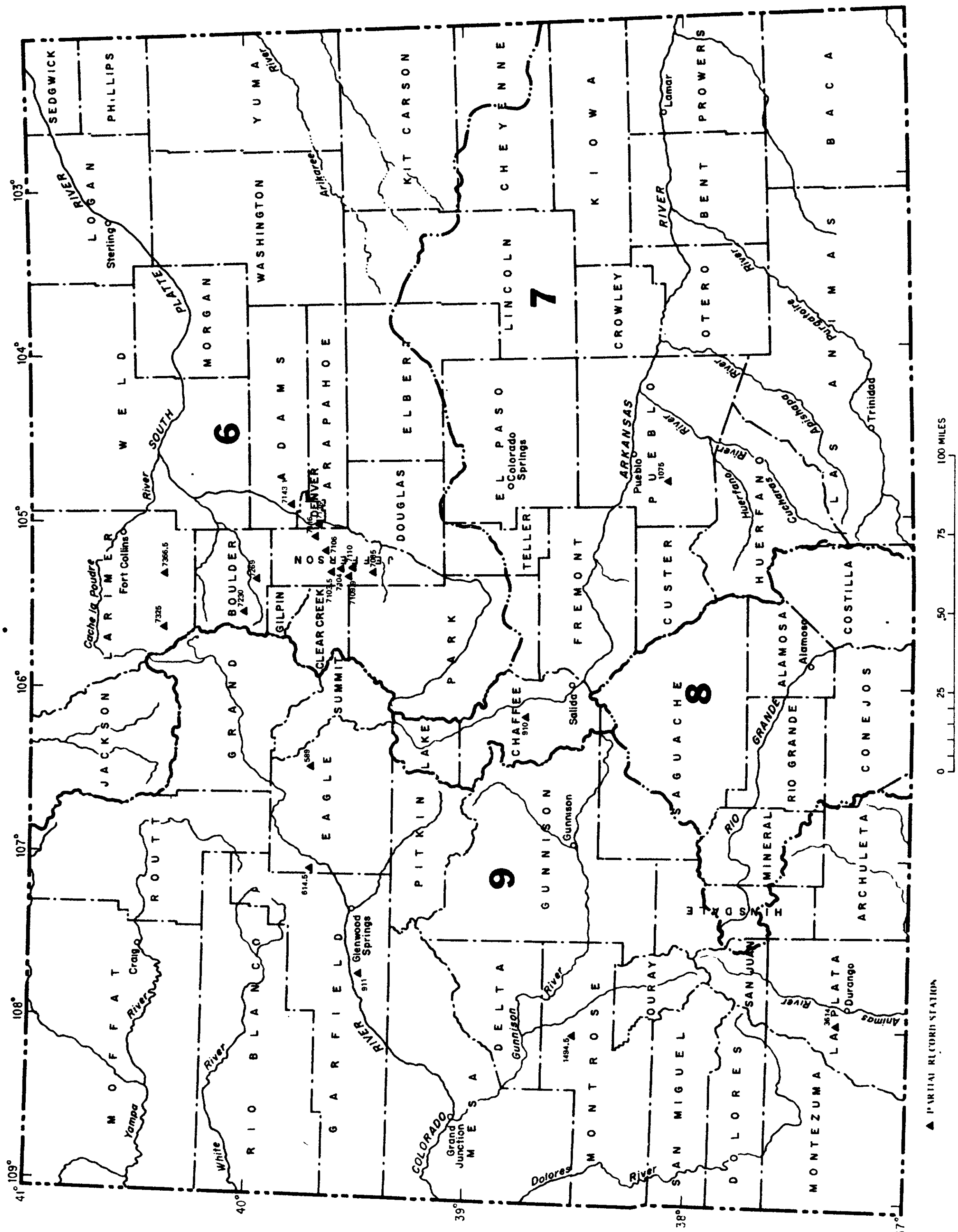


Figure 2.--Map showing locations of crest-stage partial-record stations in Colorado.

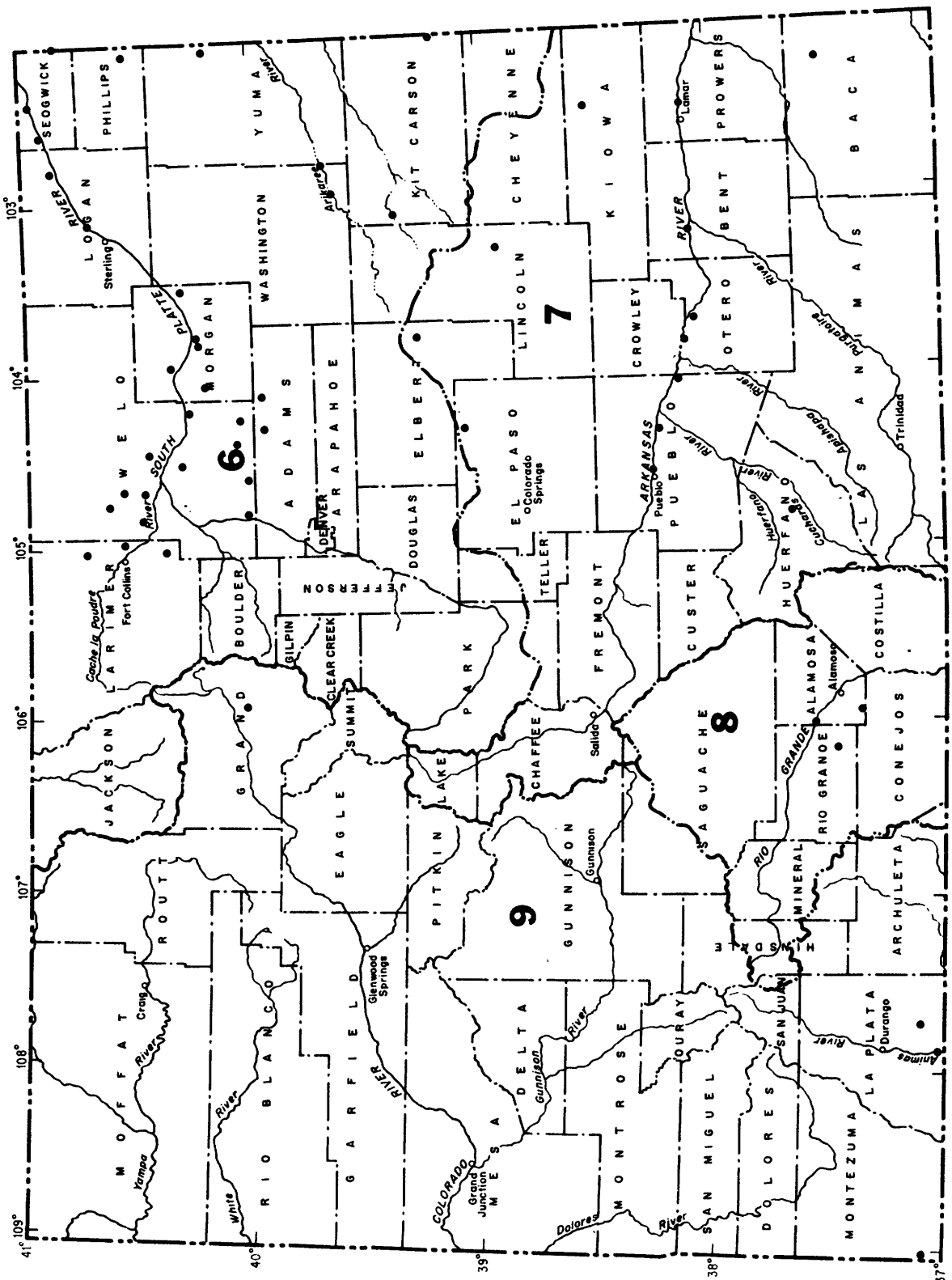


Figure 3.--Location of observation wells in Colorado.

COOPERATION

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

Arkansas River Compact Administration, L. Idler, Secretary.
Cherokee Water and Sanitation District, F. S. Loosley.
City and County of Denver, Board of Water Commissioners, J. A. Yelenick, President.
City of Aspen, Harold L. Schilling, City Manager.
City of Aurora, C. A. Wemlinger, Director of Utilities.
City of Colorado Springs, Department of Public Utilities, James D. Phillips, Director.
City of Englewood, Dr. W. F. Owen, Director, Wastewater Treatment Plant.
City of Fruita, Robert Pollock, Mayor.
City of Glendale, Robert Taylor.
City of Glenwood Springs, Michael Capp.
City of Longmont, Linn Folsom.
City of Thornton, Joseph Vigil.
City of Steamboat Springs, Daniel J. Hartman, Director of Public Works.
Colorado Division of Water Resources, J. A. Danielson, State Engineer.
Colorado Geological Survey, Walter R. Junge, Senior Engineering Geologist.
Colorado River Water Conservation District, Roland C. Fischer, Secretary-Engineer.
Delta County Board of County Commisioners,
Denver Regional Council of Governments, Robert D. Farley, Executive Director.
Eagle County Board of Commissioners, D. E. Mott, Commissioner.
Evergreen Metropolitan District, G. C. Schulte, General Manager.
Garfield County, Rodger Ludwig, Director of Administrative Services.
Grand County, R. Howard Moody, County Manager.
Larimer-Weld Regional Council of Governments, L. L. Pearson, Executive Director.
Lost Creek Groundwater Management District, G. H. Bush.
Metropolitan Denver Sewage Disposal District No. 1, Jack B. Enger, Manager.
Mineral County, Charles Steele.
Moffat County, Richard Gibbons.
North Kiowa-Bijou Ground Water Management District, Donald F. McClary.
Northern Colorado Water Conservancy District, L. Simpson.
Pitkin County Board of County Commissioners, C. Stewart, County Manager.
Pueblo Civil Defense, Betty Jo Hopper, Director.
Purgatoire River Water Conservancy District, C. Latuda, President.
Rio Blanco County Board of County Commissioners, A. J. Jones.
Rio Grande Water Conservation District, Ralph Curtis, Manager.
Southeastern Colorado Water Conservancy District, C. L. Thomson, General Manager.
Southwestern Water Conservation District, Edward Searle, Manager.
Town of Breckenridge, Gary Martinez, Town Manager.
Town of Castle Rock, Tom Gallier, Director of Utilities.
Trinchera Water Conservancy District, Lyle Smith, President.
Uncompahgre Valley Water Users Association, James Herbit, Manager.
Upper Yampa Water Conservancy District, J. Fetcher.
Upper Arkansas River Water Conservancy District, K. Baker, General Manager.
Urban Drainage and Flood Control District, L. Scott Tucker, Executive Director.
Yellow Jacket Water Conservancy District, F. G. Cooley, Secretary-Council.

COOPERATION

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

HYDROLOGIC CONDITIONS

Precipitation

Generally, precipitation during the 1985 water year was, in general, greater than normal throughout the Colorado River basin in Colorado. This greater than normal precipitation represents a continuation of the pattern of the preceding water year.

Precipitation data from published reports of the U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service, for the Colorado River basin in Colorado is shown in table 1.

Table 1.--Precipitation during the 1985 water year and departures from normal precipitation, in inches

Drainage basin	October--March		April--September		Water year	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
Colorado River-----	9.71	+2.10	9.95	+2.20	19.66	+4.30

STREAMFLOW

Streamflow in the Dolores River, Green River, and San Juan River basins was greater than normal during the water year. Monthly and annual mean discharges for the 1985 water year are compared with the median monthly and annual mean discharges for the 1951-1980 water years at selected stations in figure 4. The monthly mean discharge for the 1985 water year for station 09251000, Yampa River near Maybell, (fig. 4A) ranged from 104 percent of normal during July to 294 percent of normal during October. The 1985 annual mean discharge was 154 percent of normal compared to 205 percent of normal during the 1984 water year. For station 09361500, Animas River at Durango (fig. 4B), the monthly mean discharge for the 1985 water year ranged from 118 percent of normal during February to 267 percent of normal during April. The 1985 annual mean discharge was 172 percent of normal compared to 152 percent of normal in the 1984 water year. Year-end storage in Vallecito Reservoir was 77,010 acre-feet, an increase of 9,560 acre-ft from the 1984 water year.

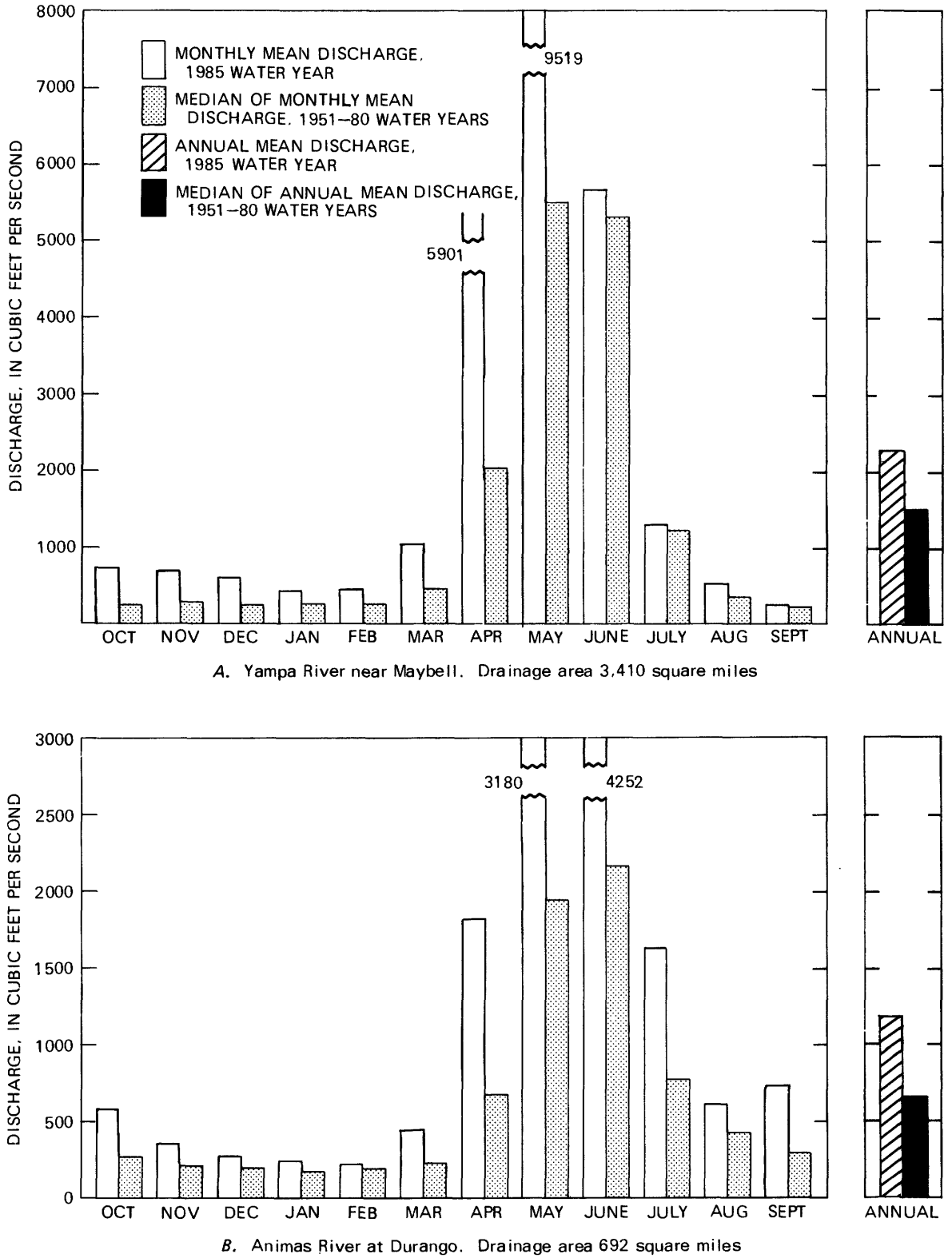


Figure 4.--Discharge for 1985 water year compared with median discharge for 1951-80 water years at two representative streamflow-gaging stations.

Chemical Quality of Streamflow

Water quality conditions for the 1985 water year were not characterized by any unusual conditions or constituent concentrations. In general, the higher flows resulted in smaller concentrations of chemical constituents, and thus smaller concentrations of dissolved solids than have been determined during the previous ten years (tables 2 and 3). At 65 percent of the stations, the average specific-conductance values for the 1985 water year were less than the average specific-conductance values for the previous 10 years; at 70 percent of the stations the average suspended-sediment values for the 1985 water year were larger than the average suspended-sediment values for the previous 10 years.

Table 2.--1985 Water year average values for selected constituents

(CFS, cubic foot per second; US/CM, micromhos per centimeter; MG/L, milligrams per liter)

STATION NUMBER NAME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHOROUS, TOTAL (MG/L AS P)	HARD-NESS (MG/L AS CACO3)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SEDI-MENT, SUS-PENDED (MG/L)
09179200 Salt Creek near Gateway---------	2.1	50300	---	----	3140	37500	144000
09237500 Yampa River near Oak Creek-------	200	390	---	----	210	259	---
09251000 Yampa River near Maybell---------	2190	801	---	0.04	310	525	296
09260000 Little Snake River near Lily-------	745	637	---	.07	240	475	1230
09303000 North Fork White River at Buford-	640	266	---	----	130	170	37
09303500 South Fork White River near Buford	523	228	---	----	120	133	909
09306007 Piceance Creek below Rio Blanco------	70	1120	---	.25	420	724	1610
09306061 Piceance Creek above Hunter Creek near Rio Blanco----	46	1220	---	.20	450	810	575
09306200 Piceance Creek below Ryan Gulch, near Rio Blanco----	153	1240	---	----	490	875	1870
09306222 Piceance Creek at White River-----	181	1360	---	----	440	940	2280
09306235 Corral Gulch below Water Gulch, near Rangely--	8.3	1450	---	----	680	1100	1370
09306242 Corral Gulch near Rangely----	10	1500	---	----	610	1010	2530
09352900 Vallecito Creek near Bayfield---	161	65	---	.02	30	36	5

Table 3.--10 Year average (October 1, 1974 to September 30, 1984) values for selected constituents

(CFS, cubic foot per second; US/CM, micromhos per centimeter; MG/L, milligrams per liter)

STATION NUMBER NAME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHOROUS, TOTAL (MG/L AS P)	HARD-NESS (MG/L AS CACO3)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SEDI-MENT, SUS-PENDED (MG/L)
09179200 Salt Creek near Gateway---	19	53300	---	0.04	3150	39400	103000
09237500 Yampa River near Oak Creek---	168	1330	0.51	.87	740	1080	253
09251000 Yampa River near Maybell---	1900	486	1.09	.12	170	301	203
09260000 Little Snake River near Lily---	806	637	1.23	.41	170	409	2100
09303000 North Fork White River at Buford-	262	311	---	.03	170	215	21
09303500 South Fork White near Buford---	296	226	---	----	120	139	40
09306007 Piceance Creek below Rio Blanco---	24	1070	1.45	.15	360	685	743
09306061 Piceance Creek above Hunter Creek near Rio Blanco----	24	1300	1.38	.21	450	866	634
09306200 Piceance Creek below Ryan Gulch, near Rio Blanco----	30	1550	2.04	.31	530	1030	675
09306222 Piceance Creek at White River---	37	2310	2.28	.59	480	1530	813
09306235 Corral Gulch below Water Gulch, near Rangely--	1.2	1100	---	.14	460	741	2050
09306242 Corral Gulch near Rangely----	2.9	1340	.87	.16	470	899	2100
09352900 Vallecito Creek near Bayfield---	160	75	1.51	.02	34	43	4

Ground Water

Water levels indicate the response of an aquifer to recharge and discharge. Recharge and discharge can be either natural or manmade. Water levels will rise when recharge is plentiful and discharge is small and will decline when recharge is small and discharge is large.

The aquifers within the Dolores River, Green River, and San Juan River basins can be grouped into two categories: unconsolidated aquifers and consolidated aquifers. The unconsolidated aquifers receive recharge from precipitation, return flow from irrigation, and leakage from canals and streams. Discharge of ground water may be by seepage to streams, seeps, or springs, by loss to evapotranspiration, or by withdrawal by pumping from wells. The consolidated aquifers receive recharge from precipitation and streams crossing outcrop areas. These aquifers primarily discharge water to springs and streams, although locally some discharge is by wells.

West of the Continental Divide, where withdrawals are small, water-level fluctuations mostly reflect changes in natural conditions. Most of the aquifers in the Dolores River, Green River, and San Juan River basins are still under natural conditions except where ground water is being pumped for the production and development of oil, gas, and coal.

DEFINITION OF TERMS

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

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

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

Algal-growth potential (AGP) refers to the results of an algal assay test which determines the nutrients that are limiting to growth, as well as to quantify the biological response to changes in concentrations of algal growth-limiting nutrients. These measurements are made by inoculating a water sample with an algal test organism and evaluating its growth response to various additions of nutrients overtime. The water samples are spiked with .005 mg/L phosphorus and .075 mg/L nitrogen, and the algal growth potential results are reported in milligrams per liter.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

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

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

Fecal streptococcal bacteria are bacteria found also in the intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

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

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

Ash mass is the mass of amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and those for periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and the ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

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

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters. It represents a runoff of approximately 0.0372 inch from 1 square mile, or 0.3468 millimeter from 1 square kilometer.

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

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

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

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic foot per second (cfs, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second, or 448.8 gallons per minute, or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

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

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to that material in a representative water sample which passes through a 0.45 um membrane filter. This may include some very small (colloidal) suspended particles as well as the amount of substance present in true chemical solution. It is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved oxygen (DO) is the dissolved-oxygen content of water in equilibrium with air and is a function of atmospheric pressure and temperature and dissolved-solids concentration of the water. The capacity of water for dissolved-oxygen decreases as dissolved solids or temperature increase or as atmospheric pressure decreases. Dissolved-solids concentration has the least effect on dissolved-oxygen concentration. Photosynthesis and respiration may cause diel variations in dissolved-oxygen concentration in water from some streams.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is the physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium anbd magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

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

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

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

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined either by sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulaltion tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Table 4 -- Factors for conversion of chemical constituents in milligrams or micrograms per liter to milliequivalents per liter

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*.....	0.11119	Iodide (I^{-1}).....	0.00788
Ammonia as N.....	.07139	Iron (Fe^{+3})*.....	.05372
Barium (Ba^{+2}).....	.01456	Lead (Pb^{+2})*.....	.00965
Bicarbonate (HCO_3^{-1})...	.01639	Lithium (Li^{+1})*.....	.14411
Bromide (Br^{-1}).....	.01251	Magnesium (Mg^{+2})*.....	.08226
Calcium (Ca^{+2}).....	.04990	Manganese (Mn^{+2})*.....	.03640
Carbonate (CO_3^{-2}).....	.03333	Nickel (Ni^{+2})*.....	.03406
Chloride (Cl^{-1}).....	.02821	Nitrate as N.....	.07139
Chronium (Cr^{+6})*.....	.11539	Nitrite as N.....	.07139
Cobalt (Co^{+2})*.....	.03394	Phosphate,ortho as P.....	.09686
Copper (Cu^{+2})*.....	.03148	Potassium (K^{+1}).....	.02557
Cyanide (CN^{-1}).....	.03844	Sodium (Na^{+1}).....	.04350
Fluoride (F^{-1}).....	.05264	Strontium (Sr^{+2}*.....	.02283
Hydrogen (H^{+1}).....	.99209	Sulfate (SO_4^{-2}).....	.02082
Hydroxide (OH^{-1}).....	.05880	Zinc (ZN^{+2})*.....	.03060

*Constituents reported in micrograms per liter; multiply by factor and divide results by 1,000.

Table 5.--Factors for conversion of sediment concentration in milligrams per liter to parts per million*

(All values calculated to three significant figures)

Range of concentration in 1000 mg/L	Divide by	Range of concentration in 1000 mg/L	Divide by	Range of concentration in 1000 mg/L	Divide by	Range of concentration in 1000 mg/L	Divide by
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05- 24	1.01	218-232	1.14	427-440	1.27	639-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-506	1.31	700-715	1.44
88.5 -104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 -120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 -136	1.08	313-345	1.21	540-554	1.34	749-762	1.47
137 -152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 -169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170 -185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 -200	1.12	395-409	1.25	604-617	1.38		

*Based on water density of 1.000 g/mL and a specific gravity of sediment of 2.65.

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

Classification	Size (mm)	Method of analysis
Clay.....	0.00024 - 0.004	Sedimentation
Silt.....	.004 - .062	Sedimentation
Sand.....	.062 - 2.0	Sedimentation or sieve
Gravel.....	2.0 - 64.0	Sieve

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

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

Pesticide network is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

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

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

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

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

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

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

Radiochemical network is a network of regularly sampled water-quality stations where samples are collected monthly or twice a year (at high and low flow) to be

analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Radioisotopes are isotopic forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose and Rose, 1966). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Radioisotopes that are determined in this program are natural uranium in ug/L (micrograms per liter), radium as radium-226 in PC/L (pCi/L, picocuries per liter), gross beta radiation as equivalent strontium/yttrium-90 or cesium-137 in PC/L, and gross alpha radiation as micrograms of uranium equivalent per liter (ug/L). Gross alpha and beta radioactivity associated with the fine-grained (silt and clay-sized) sediments in the samples are also determined.

Recoverable from bottom material the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

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

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

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft (0.09 m) above the bed) expressed as milligrams of dry sediments per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge in cfs times concentration in mg/L times 0.0027.

Suspended-sediment load is that quantity of suspended sediment passing a section in a specified period.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

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

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. This ratio should be known especially for water used for irrigating farmland.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks and is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the number and specific chemical types of ions in solution and can be used for approximating the dissolved-solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may vary in the same source with changes in the composition of the water. A microsiemen is equal to one millionth of a mho.

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

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

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

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

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

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

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the location of the thermograph.

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

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

Total the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

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

Total, recoverable the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample.

To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Water year in the U.S. Geological Survey is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1981, is called the "1981 water year."

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

WRD is an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to State annual basic-data reports published prior to 1976.

WDR is used as an abbreviation for "Water-Data Report" in the summary REVISIONS paragraph to refer to State annual basic-data reports published after 1976.

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

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

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of gaging stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station and each partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and continuous-record gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station.

Gaps are left in the sequential allocation of numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 07083000, which appears just to the left of the station name, includes the 2-digit part number "07" plus the 6-digit downstream order number "083000." In this report the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are for Part 6 (Missouri River basin), Part 7 (Lower Mississippi River basin), and Part 8 (Western Gulf of Mexico basins). Records for Part 9 (Colorado River Basin) are in Volumes 2 and 3. All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

SPECIAL NETWORKS AND PROGRAMS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

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

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are: (1) To depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis, and (2) to detect and assess long-term changes in streamflow and stream quality.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and Computation of Data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents 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 direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 5-, 15-, 30- or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the U.S. Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6. Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or 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 discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by hydrologists and observers are used in 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 control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the 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 change in contents is 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 gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current water year is shown on the inside of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly or annual figures of discharge are affected by the revisions, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given.

The type of gage currently in use, the datum of the present gage above mean sea level, referred to National Geodetic Vertical Datum; and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS."

Information pertaining to the accuracy of the discharge records, to conditions which affect the natural flow of the gaging station, availability of water-quality

records, and reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance.

The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or minimum contents), and the minimum gage height, if it is significant, are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second (ft^3/s) during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in acre-feet (line headed "AC-FT"). In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations and at miscellaneous sites follow the information for continuous record sites. Data for partial-record discharge stations are presented in three tables. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table of discharge measurements at miscellaneous sites.

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 station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good" means within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

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

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. However, because all the effects cannot be measured or evaluated, satisfactory adjustments generally cannot be made. For some stations, available figures of diversions or change in contents of reservoirs are included as supplemental data. Even at those stations where adjustments can be made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other data available

Information of a more detailed nature than that published for most of the gaging stations, such as observations of water temperatures, discharge measurements, gage-height records, and rating tables is on file in the district office. Also most 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 district office.

Records of Discharge Collected by Agencies other than the Geological Survey

Records of discharge not published by the Geological Survey were collected at many sites in Colorado during the water year by the folowing agencies: City of Colorado Springs; Colorado Division of Water Resources; Forest Service, U.S. Department of Agriculture; City and County of Denver, Board of Water Commissioners; National Weather Service, Department of Commerce; and the Bureau of Reclamation.

Access to WATSTORE DATA

The National WAter Data STOrage and REtrieval System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey at its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from each of the Water Resources Division's district offices (see address given on the back of the title page).

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, VA 22092

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Water samples for analyses usually are collected at or near streamflow-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 (such as, specific conductance, pH, dissolved oxygen, water temperature, sediment discharge), extremes for the period of daily record, extremes for current year, and general remarks.

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

Water Analysis

Most methods for collecting and analyzing water samples are described in "U.S. Geological Survey Techniques of Water-Resources Investigations," which are listed on page 39.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data 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 determination of carbonate and bicarbonate in the laboratory.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967, the Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per liter (mg/L) and water temperatures in degrees Celsius (°C). In waters with a density of 1.000 grams per milliliter (g/mL), parts per million and milligrams per liter can be considered equal. In waters with a density greater than 1.000 g/mL, values in parts per million should be multiplied by the density to convert to milligrams per liter. Temperature reported in degrees Celsius may be converted to degrees Fahrenheit by using table 3.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

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

Water Temperatures

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for surface-water stations. For stations where water temperatures are taken manually the water temperatures are taken about the same time each day. Large streams have a small diel 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.

Table 6.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
.2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

*°C equals 5/9(°F-32°) or °F equals 9/5(°C)+32°.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per liter instead of milligrams per liter. See "Definition of Terms," and table 5 for converting English units to SI units.

The biological information includes qualitative and quantitative analyses of plankton, periphyton, Chlorophyll a and b, biomass and bottom organisms. Microbiological information includes quantitative identification of selected bacteriological indicator organisms.

Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). Analysis of pesticides and organic substances in water are described by Goerlitz and Lamar (1967), Lamar, Goerlitz, and Law (1965), and Goerlitz and Brown (1972). The collection and analysis of aquatic, biological, and microbiological samples are described by Slack and others (1973).

Sediment

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

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads 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. A blank in the daily mean concentration column of the suspended-sediment discharge table indicates the value in the sediment discharge column was estimated. A zero value in the sediment-discharge column when there are nonzero values in the mean discharge and mean concentration columns indicates the load is less than 0.005 ton per day.

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

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

WATER-SUPPLY PAPERS

The annual series of Water-Supply Papers that give information on quality of surface waters in Colorado are shown in the following table:

Table 7.--Water-Supply Paper numbers and parts, water years 1941-71

Year	Part 6	Part 7	Part 8	Part 9	Irrigation (1951-65)[1]
1941	942	942	942	----	
1942	950	950	950	----	
1943	970	970	970	----	
1944	1022	1022	1022	----	
1945	1030	1030	1030	----	
1946	1050	1050	1050	----	
1947	1102	1102	1102	----	
1948	1132	1133	1133	----	
1949	1162	1163	1163	----	
1950	1187	1188	1188	----	
1951	1198	1199	1199	1200	1264
1952	1251	1252	1252	1253	1362
1953	1291	1292	1292	1293	1380
1954	1351	1352	1352	1353	1430
1955	1401	1402	1402	1403	1465
1956	1451	1452	1452	1453	1485
1957	1521	1522	1522	1523	1524
1958	1572	1573	1573	1574	1575
1959	1643	1644	1644	1645	1699
1960	1743	1744	1744	1745	1746
1961	1883	1884	1884	1885	1886
1962	1943	1944	1944	1945	1946
1963	1949	1950	1950	1951	1952
1964	1956	1957	1957	1958	1960
1965	1963	1964	1964	1965	1967
1966	1993	1994	1994	1995	----
1967	2013	2014	2014	2015	----
1968	2095	2096	2097	2098	----
1969	2145	2146	2147	2148	----
1970	2155	2156	2157	2158	----
1971	2165	[2]2166	[2]2167	[2]2168	----

[1]Annual series, "Quality of Surface Waters for Irrigation, Western States."
[2]In preparation.

Information about reports and other data on quality of water in Colorado may be obtained from the district office at the address given on the back of the title page of this report.

EXPLANATION OF GROUND-WATER-LEVEL RECORDS

Collection of Data

Only ground-water level data from a basic national network of observation wells are published herein. These water-level measurements are intended to provide a record of water-level changes in important aquifers.

The locations of wells are referenced by two systems. One system is based on latitude and longitude, and the second is based on the U.S. Bureau of Land Management system of land subdivision. The latitude and longitude grid system facilitates machine processing of data and plotting of data points.

The latitude and longitude grid system is used to provide the geographic location of each well. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude; N designates north; the next seven digits denote degrees, minutes, and seconds of longitude; and the last two digits are sequential numbers for wells within a 1-second grid, as shown below in figure 6.

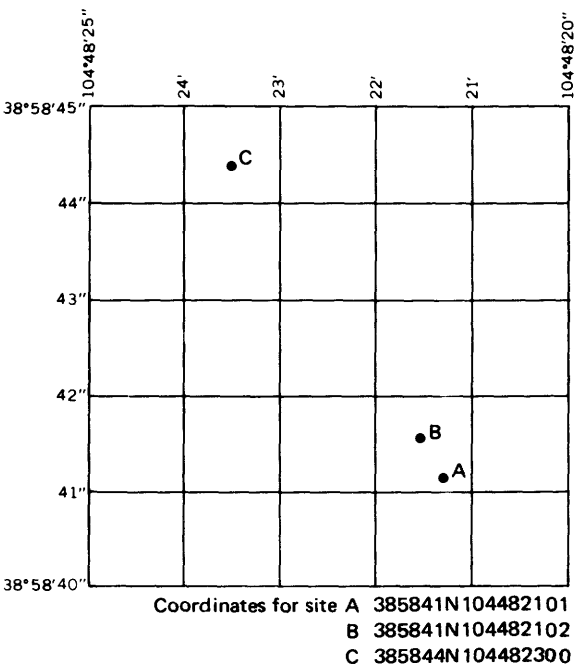


Figure 5.--System for numbering wells and miscellaneous sites (latitude and longitude).

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

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

The 36-mi^2 area described by the township and range designation is subdivided into 1-mi^2 areas called sections. The sections are numbered sequentially. The third number of the well location designates the section. The section, which contains 640 acres, is subdivided into quarter sections. The 160-acre area is designated by the first letter following the section: A indicates the northeast quarter, B the northwest, C the southwest, and D the southeast. The quarter section is subdivided into quarter-quarter sections. The 40-acre area is designated in the same manner by the second letter following the section. The quarter-quarter section is subdivided into quarter-quarter-quarter sections. The 10-acre area is designated in the same manner by the third letter following the section. If more than one well is located within the 10-acre tract, the wells are numbered sequentially in the order in which they were originally inventoried. If this number is necessary, it will follow the three-letter designation.

The local number is provided for continuity with older reports.

Measurements are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well insure that measurements at each well are of consistent accuracy and reliability.

Water-level measurements in this report are given in feet with reference to either mean sea level (msl) or land-surface datum (lsd). Mean sea level is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above mean sea level is given in the well description. The height of the meaasuring 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 to water of several

hundred feet, the error of 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.

Publications

Publication of ground-water level data for the United States in water-supply papers was begun by the Geological Survey in 1935. From 1935 through 1939, a single water-supply paper covering the entire nation was issued each year (Water-Supply Papers 777, 817, 840, 845, and 886). From 1940 through 1974, separate water-supply papers were issued for six sections of the United States. Water-level data for Colorado are included in the water-supply papers listed below, each report containing one or more calendar years (January through December) of data. Data in this report are for the 12-month water year ending September 30.

Calendar year	WSP no.	Calendar year	WSP no.	Calendar year	WSP no.	Calendar year	WSP no.
1940	910	1945	1027	1950	1169	1955	1408
1941	940	1946	1075	1951	1195	1956-60	1760
1942	948	1947	1100	1952	1225	1961-65	1845
1943	990	1948	1130	1953	1269	1966-70	1980
1944	1020	1949	1160	1954	1325		

Information about reports and other data on ground water in Colorado may be obtained from the district office at the address given on the back of the title page of this report.

SELECTED REFERENCES

The following publications are available for background information on the methods for collecting, analyzing, and evaluating the chemical and physical properties of surface waters:

American Public Health Association, and others, 1980, Standard methods for the examination of water and waste water, 13th ed: American Public Health Assoc., New York, 1134 p.

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Fishman, M. J., and Bradford, W. L., 1982, A supplement to methods for the determination of inorganic substances in water and fluvial sediments: U.S. Geological Survey Techniques of Water-Resources Investigations, Book 5, Laboratory Analysis, Chapter A1, open-file report 82-272, 136 p.

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Lohman, S. W., and others, 1972, Definitions of selected ground-water terms--revisions and conceptual refinements: U.S. Geological Survey Water-Supply Paper 1988, p. 2.

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_____1923, Outline of ground-water hydrology, with definitions: U.S. Geological Survey Water-Supply Paper 494, 71 p.

Moran, R. E., and Wentz, D. A., 1974, Effects of metal-mine drainage on water quality in selected areas of Colorado, 2 of 3, 1972-73: Colorado Water Conservation Board Circular 25, 250 p.

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Report 13, 1961, The single-stage sampler for suspended sediment: Washington, D. C., U.S. Government Printing Office, 105 p.

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PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 604 South Pickett St., Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

1-D1. *Water temperature--influential factors, field measurement, and data presentation,* by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents,* by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

2-D1. *Application of surface geophysics to ground-water investigations.* by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.

2-E1. *Application of borehole geophysics to water-resources investigations,* by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.

3-A1. *General field and office procedures for indirect discharge measurements,* by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.

3-A2. *Measurement of peak discharge by the slope-area method,* by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.

3-A3. *Measurement of peak discharge at culverts by indirect methods* by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.

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3-A10. *Discharge ratings at gaging stations,* by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.

3-A11. *Measurement of discharge by moving-boat method,* by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

3-A13. *Computation of continuous records of streamflow,* by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.

3-A14. *Use of flumes in measuring discharge,* by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.

3-A15. *Computation of water-surface profiles in open channels.* by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.

3-B1. *Aquifer-test design, observation, and data analysis,* by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction,* by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers.* by J. E. Reed: USGS-TWRI Book 3, Chapter B3. 1980. 106 pages.

3-C1. *Fluvial sediment concepts* by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. *Field methods for measurement of fluvial sediment*. by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.

3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

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

4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.

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

4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.

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

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments* by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.

5-A2. *Determination of minor elements in water by emission spectroscopy*. by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.

5-A3. *Methods for analysis of organic substances in water*. by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*. edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.

5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*. by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.

5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sedments*, by L. C. Friedman and D. E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.

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

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.

7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.

7-C3. *A model for simulation of flow in singular and interconnected channels*. by R. W. Schaffrannek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.

8-A1. *Methods of measuring water levels in deep wells*. by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages

8-A2. *Installation and service manual for U.S. Geological Survey manometers* by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.

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

DOLORES RIVER BASIN

09165000 DOLORES RIVER BELOW RICO, CO

LOCATION.--Lat 37°38'20", long 108°03'35", Dolores County, Hydrologic Unit 14030002, on left bank at upstream side of Montelores bridge northwest of State Highway 145 (relocated), at Dolores-Montezuma County line, 0.5 mi upstream from Ryman Creek, and 4.0 mi southwest of Rico.

DRAINAGE AREA.--105 mi^2.

PERIOD OF RECORD.--October 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8,422.23 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Nov. 22-23, Nov. 26 to Feb. 19, Feb. 23-25, Mar. 4-5. Records good except for estimated daily discharges, which are poor. No diversion above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--34 years, 138 ft^3/s; 99,980 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,170 ft^3/s, May 24, 1984, gage height, 5.95 ft; from rating curve extended above 1,620 ft^3/s, maximum gage height, 6.15 ft, June 10, 1952; minimum daily discharge, 7.0 ft^3/s, Nov. 16-17, 1956, Feb. 6-7, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since at least 1885 occurred Oct 5, 1911.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 7	2230	899	4.80	June 8	2300	*1,830	*5.80
May 28	2200	1,130	5.03	June 15	2030	1,270	5.25

Minimum daily discharge, 20 ft^3/s, Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	76	38	40	22	26	35	234	706	253	123	51
2	76	75	38	34	20	29	39	252	772	246	131	52
3	72	77	40	34	22	27	50	366	814	236	118	60
4	90	76	40	36	22	26	63	576	767	230	104	61
5	108	70	40	36	22	26	70	600	780	219	94	59
6	96	75	34	36	22	27	99	712	925	205	88	50
7	84	70	36	38	22	26	137	717	1170	197	84	60
8	83	68	38	38	22	26	168	772	1380	187	79	65
9	77	63	38	36	22	27	181	725	1450	192	76	60
10	73	56	38	34	22	31	188	714	1330	188	73	51
11	75	65	40	32	22	35	219	559	1230	181	88	67
12	91	63	40	30	24	33	240	423	1120	159	77	121
13	95	62	38	28	24	30	299	338	1080	166	68	70
14	103	60	38	28	26	32	339	289	1040	148	65	62
15	81	50	36	28	26	33	399	289	1030	142	61	134
16	84	57	36	28	28	32	412	335	1010	152	57	135
17	84	57	34	28	30	31	385	332	853	142	55	99
18	86	54	34	30	32	32	364	356	813	143	68	170
19	84	46	36	30	32	33	301	348	794	144	66	416
20	80	47	34	32	32	32	234	319	694	136	61	213
21	77	47	30	32	27	32	199	300	648	132	75	200
22	77	46	26	30	26	32	170	291	547	160	59	198
23	77	46	24	30	24	31	152	339	491	173	55	170
24	75	48	26	30	24	35	152	418	461	137	52	145
25	71	47	30	28	24	40	150	496	514	121	50	126
26	71	42	36	28	25	44	138	631	387	124	49	111
27	80	30	48	30	25	41	128	825	324	111	48	103
28	77	34	90	28	27	35	136	930	298	153	52	106
29	76	38	75	26	---	35	138	986	281	213	55	109
30	79	38	55	24	---	38	171	921	261	153	50	94
31	80	---	46	22	---	35	---	838	---	134	51	---
TOTAL	2515	1683	1232	964	696	992	5756	16231	23970	5277	2232	3418
MEAN	81.1	56.1	39.7	31.1	24.9	32.0	192	524	799	170	72.0	114
MAX	108	77	90	40	32	44	412	986	1450	253	131	416
MIN	53	30	24	22	20	26	35	234	261	111	48	50
AC-FT	4990	3340	2440	1910	1380	1970	11420	32190	47540	10470	4430	6780

CAL YR 1984 TOTAL 72668 MEAN 199 MAX 1730 MIN 24 AC-FT 144100
WTR YR 1985 TOTAL 64966 MEAN 178 MAX 1450 MIN 20 AC-FT 128900

09166500 DOLORES RIVER AT DOLORES, CO

LOCATION.--Lat 37°28'21", long 108°29'49", in SW¼SW¼ sec.10, T.37 N., R.15 W., Montezuma County, Hydrologic Unit 14030002, on left bank 0.25 mi upstream from bridge on State Highway 184 in Dolores and 0.8 mi upstream from Lost Canyon Creek.

DRAINAGE AREA.--504 mi^2.

PERIOD OF RECORD.--June 1895 to October 1903, August 1910 to November 1912, October 1921 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 859: 1937. WRD Colo. 1972: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,940 ft above National Geodetic Vertical Datum of 1929. See WSP 1713 or 1733 for history of changes prior to Oct. 7, 1952. Oct. 7, 1952 to Nov. 16, 1983, at site 0.4 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 3-5, Oct. 17 to Mar. 12. Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 2,000 acres above station. Flow partly regulated by Ground Hog Reservoir, capacity, 21,710 acre-ft. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--74 years (water years 1896-1903, 1911-12, 1922-85), 436 ft^3/s; 315,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,000 ft^3/s, Oct. 5, 1911, gage height, 10.2 ft, site and datum then in use, from rating curve extended above 2,800 ft^3/s; minimum daily, 8.0 ft^3/s, Aug. 16, 1896.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1885, that of Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 15	2400	3,360	5.82	May 29	0600	3,510	6.11
May 8	0300	4,220	6.52	June 9	0300	*4,330	*6.58

Minimum daily discharge, 50 ft^3/s, Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	180	90	100	60	100	254	2000	2250	579	334	199
2	140	190	90	95	50	110	306	1990	2320	549	347	209
3	200	190	90	80	55	100	448	2430	2410	513	365	230
4	300	190	90	80	60	95	609	3330	2180	495	329	219
5	270	180	95	90	55	90	687	3440	2110	475	315	182
6	249	180	90	90	60	90	921	3450	2290	445	319	190
7	220	170	85	90	60	90	1210	3510	2830	415	338	202
8	196	160	85	95	60	90	1490	3670	3290	392	338	246
9	184	150	90	95	60	100	1660	3370	3500	387	338	220
10	181	140	95	90	60	110	1700	3440	3210	396	333	205
11	175	130	95	85	60	400	1940	2920	2930	392	342	199
12	215	140	95	80	60	350	2100	2130	2580	357	351	321
13	237	140	95	75	60	289	2390	1810	2390	351	316	187
14	264	140	90	70	65	272	2630	1580	2300	337	299	141
15	231	130	90	70	65	272	2860	1520	2180	302	295	201
16	240	130	90	70	65	261	2910	1680	2180	319	279	327
17	220	130	85	70	70	275	2580	1660	1910	386	265	249
18	210	120	85	70	80	275	2620	1750	1750	313	268	217
19	200	120	85	70	80	306	2420	1750	1690	394	291	894
20	190	110	90	75	85	295	1960	1630	1570	366	318	557
21	190	110	85	80	85	315	1740	1620	1500	325	394	472
22	180	100	70	80	85	295	1570	1540	1370	417	370	450
23	170	100	60	80	85	259	1380	1640	1220	484	347	406
24	170	100	60	75	80	306	1450	1840	1090	398	342	343
25	170	100	65	75	80	385	1490	2080	1240	339	328	292
26	170	100	75	75	85	418	1380	2380	979	351	319	262
27	170	90	90	75	85	361	1290	2800	770	351	315	240
28	180	70	110	75	90	325	1350	3060	690	316	295	230
29	180	80	200	70	---	296	1390	3160	657	573	262	257
30	180	95	140	65	---	266	1570	2940	603	435	231	227
31	180	---	120	65	---	241	---	2650	---	370	203	---
TOTAL	6185	3965	2875	2455	1945	7437	48305	74770	57989	12522	9786	8574
MEAN	200	132	92.7	79.2	69.5	240	1610	2412	1933	404	316	286
MAX	300	190	200	100	90	418	2910	3670	3500	579	394	894
MIN	123	70	60	65	50	90	254	1520	603	302	203	141
AC-FT	12270	7860	5700	4870	3860	14750	95810	148300	115000	24840	19410	17010

CAL YR 1984 TOTAL 241697 MEAN 660 MAX 5540 MIN 60 AC-FT 479400
WTR YR 1985 TOTAL 236808 MEAN 649 MAX 3670 MIN 50 AC-FT 469700

09166950 LOST CANYON CREEK NEAR DOLORES, CO

LOCATION.--Lat 37°26'46", long 108°28'07", in SE¼SE¼ sec.23, T.37N., R.15W., Montezuma County, Hydrologic Unit 14030002, on right bank 3 mi upstream from mouth, and 2.5 mi southeast of Dolores

DRAINAGE AREA.--71.3 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 7,030 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1-8, Nov. 11 to Mar. 13. Records good except for estimated daily discharges, which are poor. Several small storage reservoirs and diversions for irrigation of about 4,700 acres in the San Juan River basin and one diversion for irrigation of about 10 acres in Lost Canyon in the Dolores River basin. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 678 ft^3/s May 13, 1984, gage height, 6.76 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 657 ft^3/s at 0030 Apr. 15; gage height, 6.75 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	6.7	1.1	2.2	.70	1.2	59	253	20	.01	.88	.00
2	.00	7.1	1.1	1.4	.95	1.3	87	206	13	.01	.82	.00
3	.00	7.1	1.1	1.4	1.1	1.4	153	282	9.0	.00	.21	.00
4	.00	7.1	1.1	1.4	1.1	1.4	191	394	6.1	.00	.18	.00
5	.00	7.4	1.1	1.4	1.1	1.4	141	367	4.2	.00	.10	.00
6	.00	7.4	1.1	1.5	1.2	1.4	202	313	3.9	.00	.10	.00
7	.00	8.2	1.4	1.6	1.1	5.0	278	283	3.7	.00	.07	.00
8	.00	7.4	1.7	1.9	1.1	4.0	333	244	2.9	.00	.02	.00
9	.94	8.2	2.4	1.8	1.1	3.2	360	202	2.1	.00	.02	.00
10	.82	7.4	2.0	1.6	1.1	17	370	235	1.5	.00	.01	.00
11	.13	5.0	1.7	1.4	1.0	85	423	158	1.5	.00	.01	.00
12	.10	3.4	2.8	1.3	1.0	140	454	108	1.1	.00	.01	.00
13	.15	2.2	2.8	1.1	1.2	130	484	87	.55	.00	.00	.00
14	.80	1.4	2.6	1.0	1.6	112	480	64	.41	.00	.00	.00
15	1.5	1.1	2.6	1.0	2.2	83	484	51	.28	.00	.00	.00
16	2.1	1.1	2.2	1.0	3.0	74	412	76	.23	.00	.00	.00
17	2.6	1.2	1.9	1.1	4.0	89	322	83	.41	.00	.00	2.1
18	4.2	1.5	1.8	1.2	4.0	85	353	78	.41	.00	.00	3.9
19	3.9	1.5	1.9	1.3	3.0	95	264	65	.28	.00	.00	16
20	3.9	1.3	1.9	1.5	2.6	97	155	55	.23	.00	.00	18
21	4.6	1.1	1.7	1.7	2.4	103	133	55	.23	.00	.00	18
22	4.9	1.1	1.2	1.9	2.2	91	122	44	.23	.00	.00	14
23	5.3	1.1	.95	1.6	2.0	84	110	30	.18	.05	.00	9.4
24	6.0	1.3	.95	1.5	1.7	88	119	30	.12	.10	.00	4.3
25	5.3	1.4	.80	1.5	1.4	123	117	33	.10	.10	.00	1.9
26	4.2	1.4	1.5	1.4	1.2	139	87	35	.07	.12	.00	1.9
27	5.3	1.3	3.0	1.4	1.1	100	73	35	.05	.12	.00	1.9
28	5.6	1.3	6.0	1.4	1.1	80	89	31	.02	.10	.00	1.9
29	6.0	1.2	7.0	1.4	---	67	117	30	.02	.12	.00	2.6
30	6.0	1.1	5.0	1.3	---	76	177	23	.02	.15	.00	4.2
31	6.4	---	3.2	.90	---	59	---	18	---	.23	.00	---
TOTAL	80.74	106.0	67.60	44.10	47.25	2037.3	7149	3968	72.84	1.11	2.43	100.10
MEAN	2.60	3.53	2.18	1.42	1.69	65.7	238	128	2.43	.04	.08	3.34
MAX	6.4	8.2	7.0	2.2	4.0	140	484	394	20	.23	.88	18
MIN	.00	1.1	.80	.90	.70	1.2	59	18	.02	.00	.00	.00
AC-FT	160	210	134	87	94	4040	14180	7870	144	2.2	4.8	199

WTR YR 1985 TOTAL 13676.47 MEAN 37.5 MAX 484 MIN .00 AC-FT 27130

09168100 DISAPPOINTMENT CREEK NEAR DOVE CREEK, CO

LOCATION.--Lat 37°52'36", long 108°34'57", Dolores County, Hydrologic Unit 14030002, 0.2 mi downstream from ford, 6.5 mi southeast of Cedar, and 19 mi northeast of town of Dove Creek.

DRAINAGE AREA.--147 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 6,420 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 28 to Mar. 14, July 31 to Aug. 7. Records good except for estimated daily discharges, which are poor. Several small reservoirs and and ponds above station. Small diversions for irrigation above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--28 years, 21.1 ft^3/s; 15,290 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,140 ft^3/s, Aug. 8, 1983, gage height, 13.54 ft, from rating curve extended above 250 ft^3/s, on basis of slope-area measurements at gage heights 7.18 ft, 10.26 ft, and 13.38 ft; maximum gage height, 13.54 ft, July 13,1965 (slope-area measurement), Aug. 8, 1983; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 560 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 18	1900	*913	*7.16	Sept. 20	2400	835	6.90
July 21	2300	646	6.18				

Minimum daily discharge, 0.01 ft^3/s, Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	14	5.0	7.0	4.0	6.0	113	223	102	15	9.0	.22
2	12	12	5.0	6.5	4.8	6.5	161	212	94	15	9.0	.01
3	19	12	5.0	6.5	5.0	6.0	186	230	98	14	9.0	.02
4	40	11	5.5	6.5	5.0	6.0	178	275	89	13	8.0	.03
5	21	9.9	5.5	7.0	5.0	6.0	204	258	81	11	8.0	.03
6	25	11	5.5	7.5	5.5	5.5	221	229	80	10	8.0	.01
7	21	9.9	5.5	8.0	5.0	5.5	234	228	90	8.2	7.0	.23
8	20	9.6	11	8.5	5.0	6.5	259	240	96	10	6.6	.32
9	19	9.6	10	7.5	4.8	11	255	204	94	10	6.6	.05
10	19	8.2	9.0	6.5	4.8	20	264	195	86	9.6	5.4	.02
11	19	9.2	11	6.0	5.0	30	270	167	81	8.6	4.8	9.6
12	103	9.9	12	5.0	5.5	40	266	155	73	8.6	5.4	6.8
13	23	8.9	12	5.0	6.0	50	264	159	61	8.2	3.0	2.3
14	31	8.9	12	5.0	9.0	65	274	129	55	6.9	2.5	.89
15	24	8.2	11	5.5	16	56	274	116	54	6.6	1.8	112
16	30	6.9	9.0	5.5	18	61	260	105	54	8.2	1.4	18
17	62	7.2	8.0	5.5	18	61	267	106	52	12	1.0	8.5
18	33	9.2	8.5	6.0	15	73	242	113	50	81	.68	37
19	23	8.2	9.0	7.0	12	61	179	114	39	34	.86	30
20	22	5.8	7.5	7.5	12	71	186	109	33	51	.86	112
21	21	5.4	6.5	8.0	10	78	207	116	31	67	.67	152
22	19	5.1	4.6	8.0	9.0	46	195	123	28	103	.08	20
23	20	5.7	4.4	7.0	8.0	47	154	143	26	23	.05	13
24	20	6.6	4.0	6.5	7.0	80	156	137	24	24	.03	8.6
25	16	11	4.4	6.5	6.0	96	175	138	27	17	.02	7.5
26	18	8.3	18	6.0	5.5	63	180	138	24	18	.02	6.9
27	23	4.6	24	6.0	5.0	37	184	147	22	13	.02	6.3
28	21	4.6	32	6.0	5.5	40	201	150	18	11	.77	55
29	19	4.8	30	6.0	---	32	233	144	17	12	.44	30
30	19	5.0	22	4.0	---	31	219	140	16	11	.07	9.6
31	18	---	10	3.0	---	64	---	121	---	10	.02	---
TOTAL	804	250.7	326.9	196.5	221.4	1261.0	6461	5064	1695	649.9	101.09	646.93
MEAN	25.9	8.36	10.5	6.34	7.91	40.7	215	163	56.5	21.0	3.26	21.6
MAX	103	14	32	8.5	18	96	274	275	102	103	9.0	152
MIN	12	4.6	4.0	3.0	4.0	5.5	113	105	16	6.6	.02	.01
AC-FT	1590	497	648	390	439	2500	12820	10040	3360	1290	201	1280

CAL YR 1984	TOTAL	17796.91	MEAN	48.6	MAX	312	MIN	.91	AC-FT 35300
WTR YR 1985	TOTAL	17678.42	MEAN	48.4	MAX	275	MIN	.01	AC-FT 35070

09169500 DOLORES RIVER AT BEDROCK, CO

LOCATION.--Lat 38°18'37", long 108°53'05", in NW¼SW¼ sec.20, T.47 N., R.18 W., Montrose County, Hydrologic Unit 14030002, on right bank at upstream side of bridge, 0.4 mi southeast of Bedrock, and 3.1 mi upstream from East Paradox Creek.

DRAINAGE AREA.--2,024 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1917 to September 1922 (monthly discharge only for some periods, published in WSP 1313), August 1971 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,940 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Aug. 1, 1971, nonrecording gage at different datum.

REMARKS.--Estimated daily discharges: Dec. 7-8, 23-25, Jan. 2-3, 5, 10-15, 17-26, Feb. 1-5, 14-15. Records good except for estimated daily discharges, which are fair. Diversions above station for irrigation of about 5,000 acres above station and about 74,760 acres in the San Juan River basin. Flow partly regulated since Mar. 19, 1984 by McPhee Reservoir, capacity 381,000 acre-ft.

AVERAGE DISCHARGE.--17 years (water years 1918-22, 1972-83), 497 ft³/s; 360,100 acre-ft/yr, prior to completion of McPhee Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,280 ft³/s, Apr. 30, 1973, gage height, 12.09 ft, from floodmarks, from rating curve extended above 8,700 ft³/s; no flow, Sept. 13, 1974, Aug. 15 to 18, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 6, 1970, reached a stage of 7.15 ft, present datum, from floodmarks (discharge not determined).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,510 ft³/s at 1000 Apr. 9, gage height, 8.85 ft; minimum daily, 44 ft³/s, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	94	80	97	48	96	875	950	1670	111	71	44
2	179	93	76	65	90	97	880	1100	1500	94	69	45
3	154	91	77	50	100	98	939	1440	1440	86	66	46
4	152	89	77	63	95	98	1520	1750	1700	82	65	48
5	178	87	68	75	110	98	2740	2910	1760	76	64	48
6	139	89	70	86	101	91	3010	3600	1670	74	63	47
7	117	86	65	100	104	89	3120	3860	1800	70	61	47
8	103	86	75	115	107	91	3520	3660	2300	71	59	48
9	96	89	91	122	118	91	3820	3410	3470	69	57	49
10	91	87	100	100	129	104	3670	3170	2830	68	56	57
11	90	87	101	90	109	130	3630	2650	3030	69	56	57
12	90	86	97	75	106	649	3510	2490	2900	155	54	56
13	107	86	103	70	104	704	3430	2240	1890	71	53	71
14	178	86	101	70	100	708	3220	1470	1730	61	55	64
15	182	83	97	60	100	1210	2910	1180	1890	59	55	270
16	130	84	90	91	103	1240	3170	1120	1900	58	54	349
17	124	84	90	120	106	1250	3580	1090	1910	61	52	171
18	117	83	90	160	112	1250	2980	1090	1690	88	50	80
19	140	83	83	380	115	1260	2450	1090	1280	145	49	75
20	124	83	93	380	118	1320	2320	1090	1150	286	47	77
21	110	80	87	400	133	1230	2090	1020	1100	357	47	300
22	104	80	71	390	156	1240	1670	1070	968	366	47	371
23	103	80	55	340	119	1200	1600	1070	950	243	47	121
24	101	82	55	370	107	1150	1390	1080	935	133	47	84
25	100	86	60	390	103	1300	1470	1060	703	102	46	74
26	101	87	83	400	98	1420	1300	1260	565	104	46	66
27	97	84	90	408	101	1210	1360	1380	609	98	46	64
28	96	77	145	401	100	1270	1750	1700	481	87	47	68
29	96	75	264	389	---	1320	1810	2150	286	82	46	93
30	96	83	176	205	---	1090	1410	2100	166	205	46	178
31	96	---	130	77	---	894	---	1590	---	85	45	---
TOTAL	3668	2550	2940	6139	2992	23998	71144	56840	46273	3716	1666	3168
MEAN	118	85.0	94.8	198	107	774	2371	1834	1542	120	53.7	106
MAX	182	94	264	408	156	1420	3820	3860	3470	366	71	371
MIN	77	75	55	50	48	89	875	950	166	58	45	44
AC-FT	7280	5060	5830	12180	5930	47600	141100	112700	91780	7370	3300	6280

CAL YR 1984	TOTAL	239626	MEAN	655	MAX	4110	MIN	55	AC-FT	475300
WTR YR 1985	TOTAL	225094	MEAN	617	MAX	3860	MIN	44	AC-FT	446500

09169500 DOLORES RIVER AT BEDROCK, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1979 to current year.
WATER TEMPERATURES: November 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since November 1979.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 4,790 microsiemens July 12, 1981; minimum, 140 microsiemens May 25, 1983.
WATER TEMPERATURES: Maximum, 33.5°C Aug. 7, 1981; minimum, -0.5°C Dec. 3-8, 1982.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 3,040 microsiemens July 26; minimum recorded, 216 microsiemens June 18.
WATER TEMPERATURES: Maximum recorded, 28.5°C July 9, 11; minimum recorded, 0.0°C many days during winter months.

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25 DEG C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1100	1410	---	1490	---	---	607	727	330	---	943	685
2	859	---	---	1470	---	---	616	757	355	---	1030	668
3	863	---	---	1350	---	---	627	585	359	---	1110	667
4	960	---	---	1550	---	---	635	550	349	---	1260	656
5	909	---	---	1520	---	---	633	424	322	---	1250	646
6	961	---	---	1480	---	---	590	350	328	---	1230	642
7	1130	---	---	1560	---	---	571	330	333	---	1190	635
8	1130	---	---	1370	---	---	511	322	320	---	1160	627
9	1310	---	---	1320	1110	---	476	322	292	1000	1130	647
10	1540	---	---	1340	1100	---	446	317	287	1010	1110	620
11	1690	---	---	1420	---	---	428	347	286	997	1100	577
12	1520	---	---	1400	---	1430	420	343	283	830	1100	606
13	1440	---	---	1520	---	1080	412	358	264	745	1050	676
14	1300	---	---	1520	---	913	408	406	254	698	1030	564
15	1220	---	---	1610	---	625	407	---	236	839	994	675
16	1350	---	---	1610	---	633	389	---	232	785	968	752
17	1620	---	---	1450	---	642	343	---	231	868	946	1140
18	1490	---	---	1120	---	649	355	---	230	871	933	2630
19	1450	---	1190	896	---	653	399	---	244	830	892	2670
20	1460	---	1250	637	---	656	432	---	259	691	864	2770
21	1440	---	1330	561	---	659	419	---	255	1530	879	2070
22	1480	---	1270	478	---	662	492	---	262	1480	857	2230
23	1540	---	1280	493	---	663	548	---	268	1770	829	2170
24	1510	---	1230	503	---	665	583	---	261	1970	800	2020
25	1500	---	1330	519	---	668	552	---	---	1810	775	1790
26	1470	---	1400	514	---	671	543	---	---	2800	752	1590
27	1450	---	1300	514	---	669	596	---	---	2010	735	1460
28	1430	---	1120	506	---	663	586	---	---	1570	719	1410
29	1420	---	1040	509	---	623	562	322	---	1460	706	1380
30	1410	---	1400	511	---	604	586	300	---	1330	699	1370
31	1410	---	1620	---	---	603	---	334	---	856	693	---
MEAN	1330	1410	1290	1090	1110	722	506	417	285	1250	959	1230

WTR YR 1985 MEAN 927 MAX 2800 MIN 230

09169500 DOLORES RIVER AT BEDROCK, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	14.5	13.0	9.0	8.0	---	---	.5	.0	---	---	---	---
2	14.0	12.0	---	---	---	---	.0	.0	---	---	---	---
3	13.5	12.0	---	---	---	---	.0	.0	---	---	---	---
4	13.5	13.0	---	---	---	---	.0	.0	---	---	---	---
5	14.5	12.5	---	---	---	---	.0	.0	---	---	---	---
6	15.5	12.5	---	---	---	---	.0	.0	---	---	---	---
7	16.0	12.5	---	---	---	---	.0	.0	---	---	---	---
8	16.5	12.0	---	---	---	---	.0	.0	---	---	---	---
9	15.5	12.0	---	---	---	---	.0	.0	.0	.0	---	---
10	16.5	12.5	---	---	---	---	.0	.0	.0	.0	---	---
11	15.0	12.5	---	---	---	---	.0	.0	---	---	---	---
12	13.5	12.0	---	---	---	---	.0	.0	---	---	8.5	7.0
13	13.5	10.0	---	---	---	---	.0	.0	---	---	8.5	6.0
14	13.0	11.0	---	---	---	---	.0	.0	---	---	8.5	5.5
15	11.0	8.0	---	---	---	---	.0	.0	---	---	8.5	7.0
16	9.5	7.0	---	---	---	---	.0	.0	---	---	8.5	6.5
17	7.5	6.5	---	---	---	---	.0	.0	---	---	8.5	7.0
18	8.5	6.5	---	---	1.0	---	.0	.0	---	---	8.5	6.5
19	8.0	6.0	---	---	2.0	.0	.0	.0	---	---	7.5	6.5
20	8.5	6.0	---	---	2.0	.5	.0	.0	---	---	8.0	6.5
21	9.0	7.0	---	---	1.5	.0	.0	.0	---	---	8.5	6.0
22	8.0	6.5	---	---	.5	.0	.0	.0	---	---	8.0	6.0
23	8.0	6.5	---	---	.0	.0	.0	.0	---	---	7.5	5.0
24	8.5	6.0	---	---	.0	.0	.0	.0	---	---	8.5	5.0
25	9.0	5.0	---	---	.0	.0	.5	.0	---	---	9.0	6.5
26	9.0	5.5	---	---	.0	.0	.0	.0	---	---	8.0	7.0
27	9.5	7.0	---	---	.0	.0	2.5	.0	---	---	7.0	6.0
28	9.5	6.5	---	---	1.0	.0	2.5	1.5	---	---	6.0	4.0
29	10.5	6.5	---	---	1.5	.0	2.5	1.0	---	---	5.5	3.5
30	10.5	7.0	---	---	2.0	1.0	1.5	.0	---	---	7.5	4.5
31	10.5	7.5	---	---	1.5	.0	---	---	---	---	7.5	4.5
MONTH	16.5	5.0	9.0	8.0	2.0	.0	2.5	.0	.0	.0	9.0	3.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.5	5.5	14.0	11.5	15.0	13.0	---	---	25.0	20.5	24.5	21.0
2	11.0	7.5	15.5	12.5	16.0	13.5	---	---	25.5	20.5	23.0	21.0
3	11.5	8.5	15.0	13.0	15.0	14.5	---	---	26.0	21.0	21.5	19.5
4	11.0	9.0	14.5	13.0	15.5	14.0	---	---	25.5	20.5	21.5	18.0
5	9.0	7.5	12.5	10.5	16.0	13.5	---	---	25.5	20.5	21.0	17.0
6	9.5	7.0	11.5	10.0	17.0	15.0	---	---	26.5	21.0	20.5	16.0
7	9.5	7.5	12.0	10.0	17.5	16.0	---	---	26.0	20.5	18.5	16.0
8	9.5	7.5	11.5	10.0	18.0	15.5	---	---	26.0	21.0	19.5	15.0
9	10.5	8.0	10.5	9.0	16.0	14.5	28.5	23.0	26.5	21.0	19.5	16.0
10	10.0	8.5	10.5	9.0	17.0	14.5	28.0	23.0	25.0	20.0	17.0	15.0
11	10.0	8.5	10.5	9.5	17.0	14.5	28.5	23.0	24.0	20.0	15.0	13.5
12	11.0	8.5	9.5	8.5	17.0	14.0	27.0	23.0	24.0	19.0	17.5	12.0
13	11.0	9.0	10.0	7.5	18.0	14.5	28.0	23.0	23.0	18.0	18.0	13.0
14	11.0	9.0	12.0	8.5	18.5	16.5	26.5	22.0	23.0	18.5	18.5	13.5
15	11.5	9.5	---	---	18.5	16.0	26.0	21.5	24.0	19.0	17.0	13.0
16	11.0	9.5	---	---	18.0	16.5	27.5	22.0	24.5	19.5	18.5	12.5
17	11.0	9.0	---	---	17.0	15.5	26.0	23.0	24.0	19.0	17.5	15.5
18	10.5	9.5	---	---	18.0	15.5	27.0	22.0	25.0	19.5	16.0	14.5
19	9.0	8.0	---	---	20.0	17.0	26.5	23.5	24.0	20.5	17.0	13.0
20	8.0	7.5	---	---	21.5	18.0	24.5	22.5	23.5	19.0	14.5	13.0
21	9.0	8.0	---	---	21.5	18.5	24.5	22.0	26.0	20.0	17.0	13.0
22	9.5	7.5	---	---	21.5	18.5	23.0	20.0	25.5	20.0	15.0	12.5
23	9.5	7.0	---	---	22.0	18.5	25.0	21.5	25.0	19.5	14.5	11.5
24	11.5	8.0	---	---	21.0	19.0	23.5	21.0	25.0	19.0	13.5	11.5
25	11.0	9.5	---	---	---	---	25.0	20.0	24.0	19.0	15.5	11.0
26	10.0	8.0	---	---	---	---	25.0	20.5	25.0	19.0	15.0	11.0
27	10.0	7.5	---	---	---	---	26.0	21.0	24.0	20.0	15.0	11.5
28	11.0	9.0	15.5	---	---	---	24.0	21.5	25.5	20.5	14.0	12.0
29	12.5	10.5	15.0	13.0	---	---	25.0	20.5	25.0	21.0	14.0	10.5
30	12.5	10.0	14.0	12.0	---	---	24.5	21.5	24.5	21.0	13.0	9.5
31	---	---	14.0	12.5	---	---	25.0	20.0	25.0	21.0	---	---
MONTH	12.5	5.5	15.5	7.5	22.0	13.0	28.5	20.0	26.5	18.0	24.5	9.5
YEAR	28.5	.0										

09171100 DOLORES RIVER NEAR BEDROCK, CO

LOCATION.--Lat 38°21'29", long 108°49'54", in SW¼NW¼ sec.2, T.47 N., R.18 W., Montrose County, Hydrologic Unit 14030002, on right bank 2.5 mi downstream from West Paradox Creek and 4.3 mi northeast of Bedrock.

DRAINAGE AREA.--2,145 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1971 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,910 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Feb. 1, 1972, at site 400 ft upstream at datum 1.02 ft, higher.

REMARKS.--No estimated daily discharges. Records good. Diversions above station for irrigation of about 80,000 acres, of which about 74,760 acres are in the San Juan River basin. Flow partly regulated by McPhee Reservoir, capacity 381,000 acre-ft, since Mar. 19, 1984 .

AVERAGE DISCHARGE.--12 years (water years 1972-83), 502 ft^3/s; 363,700 acre-ft/yr, prior to completion of McPhee Dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,500 ft^3/s, Apr. 30, 1973, gage height, 12.88 ft, from floodmarks; minimum daily, 0.12 ft^3/s, July 17, 18, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 6, 1970, reached a stage of 11.25 ft, site and datum in use prior to Feb. 1, 1972 (discharge, 5,710 ft^3/s), by slope-area measurement at site 1,400 ft upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,200 ft^3/s at 1330 Apr. 9, gage height, 10.59 ft; minimum daily, 46 ft^3/s, Sept. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	96	96	116	53	113	876	982	1710	134	85	47
2	187	96	83	69	96	117	880	1090	1530	115	76	46
3	178	95	82	51	108	116	934	1470	1490	105	75	46
4	144	92	87	61	104	116	1510	1720	1630	98	71	47
5	218	90	71	78	114	118	2760	3070	1790	93	70	49
6	156	90	74	85	113	111	3400	3810	1720	88	70	49
7	143	90	65	102	114	108	3470	3950	1770	82	68	48
8	122	90	82	113	114	110	3920	3820	2230	79	65	49
9	117	90	94	122	118	113	4370	3540	3670	78	64	50
10	110	90	102	109	125	126	4210	3360	3000	75	61	56
11	107	90	108	97	111	154	4090	2630	3070	74	61	56
12	108	90	104	78	104	610	3960	2480	3030	142	61	56
13	119	88	108	68	106	742	3850	2210	1920	92	59	69
14	189	88	110	71	109	630	3560	1570	1730	69	60	62
15	212	85	105	59	109	1320	3010	1210	1870	65	61	190
16	156	85	97	99	118	1350	3410	1140	1890	67	59	366
17	149	86	96	124	128	1330	3980	1110	1890	68	59	236
18	139	87	96	166	132	1330	3360	1110	1760	70	58	105
19	161	87	92	403	132	1320	2500	1110	1340	131	55	92
20	149	87	96	408	135	1380	2280	1120	1190	223	54	81
21	134	85	93	424	145	1290	2130	1020	1170	396	52	179
22	125	82	78	408	171	1290	1710	1090	979	402	52	537
23	123	82	61	355	146	1260	1660	1120	946	273	53	152
24	123	87	58	407	128	1210	1440	1120	945	159	53	105
25	122	94	63	414	122	1330	1490	1120	759	120	51	89
26	119	99	86	420	122	1470	1350	1280	576	119	50	80
27	113	97	99	408	117	1290	1380	1440	627	111	49	75
28	108	93	133	401	117	1250	1720	1660	526	96	49	74
29	107	85	248	399	---	1380	1790	2120	337	88	49	103
30	105	90	188	246	---	1160	1560	2190	210	206	48	162
31	101	---	138	93	---	905	---	1600	---	111	48	---
TOTAL	4235	2686	3093	6454	3311	25149	76560	58262	47305	4029	1846	3356
MEAN	137	89.5	99.8	208	118	811	2552	1879	1577	130	59.5	112
MAX	218	99	248	424	171	1470	4370	3950	3670	402	85	537
MIN	91	82	58	51	53	108	876	982	210	65	48	46
AC-FT	8400	5330	6130	12800	6570	49880	151900	115600	93830	7990	3660	6660

CAL YR 1984	TOTAL	257489	MEAN	704	MAX	4440	MIN	58	AC-FT	510700
WTR YR 1985	TOTAL	236286	MEAN	647	MAX	4370	MIN	46	AC-FT	468700

09171100 DOLORES RIVER NEAR BEDROCK, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1979 to current year.
WATER TEMPERATURES: December 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since December 1979.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 83,300 microsiemens Aug. 9, 1981; minimum, 103 microsiemens June 4, 1984.
WATER TEMPERATURES: Maximum, 33.5°C July 10, 1981; minimum, 0.0°C several days during November to January each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 11,200 microsiemens Dec. 3,5 (but may have been higher during October, December, and January during periods of missing record); minimum, 120 microsiemens July 21.
WATER TEMPERATURES: Maximum, 32.0°C July 7; minimum, 0.0°C many days during winter months.

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25 DEG C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4980	4730	4770	---	1520	2240	661	567	369	---	---	3360
2	---	5120	5380	---	1560	2240	676	539	371	---	---	3360
3	---	5150	6430	---	1420	2330	715	511	373	---	---	3190
4	---	4960	4750	---	1110	2480	734	478	366	---	---	3070
5	---	5040	6750	---	720	2820	708	430	335	---	---	2960
6	---	5010	5890	---	611	2880	689	365	329	---	---	2970
7	---	4980	6120	---	938	3220	649	294	327	---	---	2960
8	---	4920	4990	---	1560	3430	623	262	316	---	4050	2880
9	---	4530	3930	---	2190	3560	597	301	308	3280	4050	2880
10	---	4450	3720	---	2770	3690	587	293	286	3420	4170	2460
11	---	4440	3590	---	3050	3830	546	290	281	3380	4160	2390
12	---	4520	3840	---	3520	3740	517	275	267	1780	4030	2320
13	---	4500	3840	---	3700	2360	482	288	275	1910	4160	2090
14	---	4280	3700	---	3460	820	464	337	289	2860	3970	2250
15	---	4380	4170	---	3340	361	414	465	301	3040	3900	2330
16	3400	4550	4510	---	3210	376	418	492	313	3170	3950	1410
17	---	4570	4660	---	3100	394	418	727	324	2990	3990	1580
18	---	4650	4860	---	3000	403	423	760	330	2790	4250	2240
19	5200	4590	5100	---	2900	431	430	687	342	1040	4310	2750
20	5180	4530	5140	---	2800	492	443	611	349	---	4140	3220
21	---	4740	---	---	2690	580	455	564	363	970	3570	3410
22	---	4770	---	---	2560	613	469	521	371	1590	3260	3270
23	---	4980	---	1450	2450	622	484	510	381	1140	3170	3460
24	---	5000	---	1310	2380	617	499	515	391	---	3250	3870
25	---	4940	---	1380	2250	629	518	544	396	---	3360	4230
26	---	4580	---	1350	2270	653	533	517	403	---	3400	4520
27	---	4610	---	1190	2100	684	545	447	415	---	3390	4730
28	---	4910	---	1290	2170	681	561	420	427	---	3380	4870
29	---	5530	---	1360	---	654	579	396	439	---	3400	4670
30	4990	5280	---	1410	---	656	591	369	---	---	3370	4460
31	5040	---	---	1460	---	672	---	364	---	---	3370	---
MEAN	4800	4770	4810	1360	2330	1590	548	456	346	2380	3750	3140

WTR YR 1985 MEAN 2320 MAX 6750 MIN 262

DOLORES RIVER BASIN

09171100 DOLORES RIVER NEAR BEDROCK, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	17.0	12.0	12.0	6.5	2.5	.0	---	---	.0	.0	9.5	1.5
2	15.0	11.5	11.0	4.5	3.5	.0	---	---	.0	.0	8.5	3.5
3	14.0	11.0	11.5	5.0	3.0	.0	---	---	.0	.0	6.5	2.5
4	14.5	12.0	10.5	4.0	3.0	.0	---	---	.0	.0	7.5	.5
5	16.5	12.0	9.5	3.0	4.0	.5	---	---	.0	.0	7.0	.0
6	17.0	11.0	8.5	5.0	3.0	.5	---	---	.0	.0	9.5	3.0
7	18.5	11.0	7.5	4.0	3.0	.5	---	---	.5	.0	9.5	2.0
8	19.0	10.5	8.0	5.0	1.0	.5	---	---	3.0	.0	9.5	2.5
9	18.5	11.0	10.0	4.5	5.0	.5	---	---	2.5	.0	10.5	5.0
10	19.5	12.0	7.5	2.0	1.5	.5	---	---	3.0	.0	9.0	6.5
11	18.5	11.0	9.0	3.0	3.5	1.0	---	---	3.0	.0	9.5	6.0
12	14.5	10.5	9.0	2.5	4.0	1.5	---	---	3.0	.0	8.5	7.0
13	16.5	8.5	7.0	4.0	3.0	1.0	---	---	4.5	.0	9.0	5.5
14	15.5	10.5	8.5	3.5	3.5	.5	---	---	4.5	.0	9.5	4.5
15	10.0	7.5	8.0	2.0	3.5	.5	---	---	5.0	.0	8.5	6.0
16	12.0	6.0	5.0	2.0	2.5	.5	---	---	5.5	.0	8.5	5.5
17	11.0	6.5	5.0	1.5	3.5	.0	---	---	4.5	.0	8.5	5.5
18	10.0	5.0	7.0	.5	2.5	.0	---	---	6.5	.0	8.5	5.5
19	9.0	5.5	6.5	.5	3.5	.0	---	---	5.5	.0	7.0	5.5
20	10.5	5.5	5.5	.0	3.0	---	---	---	4.0	1.5	8.0	5.0
21	10.5	6.0	4.5	.0	---	---	---	---	7.0	2.0	7.5	4.5
22	10.0	6.0	5.0	.5	---	---	1.5	---	6.5	2.0	7.5	4.5
23	9.0	6.0	5.0	.0	---	---	.5	.0	7.5	2.0	7.0	3.5
24	11.5	5.5	5.5	1.5	---	---	1.0	.0	8.0	.5	7.5	3.5
25	11.5	4.5	5.0	2.5	---	---	1.5	.0	8.0	1.5	8.5	4.5
26	10.5	4.5	4.0	.5	---	---	1.0	.0	8.5	1.5	7.0	5.5
27	10.5	7.5	3.0	.0	---	---	2.5	.0	8.5	1.0	5.5	4.5
28	12.0	5.5	1.0	.0	---	---	2.5	1.5	9.5	2.0	5.0	3.0
29	12.5	5.5	4.0	.0	---	---	3.5	.5	---	---	4.0	2.5
30	12.0	6.0	4.5	.0	---	---	2.5	.0	---	---	6.5	3.0
31	11.5	6.5	---	---	---	---	.5	.0	---	---	7.0	3.5
MONTH	19.5	4.5	12.0	.0	5.0	.0	3.5	.0	9.5	.0	10.5	.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.0	4.0	14.5	11.5	15.5	14.0	28.5	18.5	26.5	19.0	27.0	18.5
2	10.5	6.0	17.0	13.0	17.0	14.0	29.5	19.5	26.0	20.0	25.5	19.5
3	11.0	7.5	16.0	13.5	16.5	14.5	31.0	20.0	29.0	19.0	24.0	17.5
4	10.0	8.0	16.5	13.5	16.5	14.0	31.0	21.0	27.5	18.0	24.5	16.0
5	8.0	7.0	14.0	12.0	17.0	14.5	31.5	21.5	28.0	18.0	24.0	14.5
6	9.0	6.0	13.5	11.0	17.5	15.0	31.5	21.5	29.0	18.5	24.0	13.5
7	9.0	6.5	12.0	10.5	18.5	16.5	32.0	22.0	28.0	17.5	20.5	15.0
8	9.0	6.5	11.5	9.5	18.0	16.5	29.5	22.5	27.5	18.5	24.0	12.5
9	10.0	7.5	10.5	9.0	17.0	15.0	29.0	20.0	28.5	19.0	23.0	14.0
10	8.5	7.5	10.5	8.5	17.0	14.0	28.5	20.0	28.0	17.0	17.5	13.5
11	9.5	7.5	11.0	9.5	17.0	14.5	30.5	19.5	26.0	18.5	16.0	13.0
12	9.0	8.5	9.5	8.5	17.0	14.0	27.0	21.0	27.0	16.0	20.5	10.0
13	9.0	8.5	10.0	7.5	18.0	14.5	30.0	20.0	25.5	15.0	20.0	10.5
14	10.0	9.0	12.0	8.5	19.0	16.5	28.5	19.5	26.5	15.5	22.0	11.5
15	11.5	9.0	14.5	10.0	18.5	16.5	27.0	18.5	26.5	16.5	18.0	14.0
16	11.0	9.0	15.0	12.0	17.5	16.5	29.5	19.5	27.5	16.5	18.5	12.0
17	9.5	9.0	15.0	12.5	17.0	16.0	26.5	20.5	28.0	16.0	20.0	15.0
18	10.5	9.5	16.0	13.0	18.5	16.0	29.5	19.5	27.5	18.0	16.0	14.5
19	9.5	8.0	14.5	13.0	20.5	17.0	28.0	20.5	26.5	17.5	19.5	12.0
20	8.5	7.5	14.5	12.0	22.0	17.5	26.5	20.5	26.0	15.5	16.5	13.0
21	9.5	7.5	14.5	12.5	22.0	18.5	26.0	21.0	28.0	17.5	20.0	13.0
22	10.0	8.0	16.0	12.0	22.0	18.0	23.0	20.0	28.5	17.0	16.5	13.5
23	10.0	7.0	17.0	13.0	22.5	18.5	25.0	19.5	27.5	16.0	18.0	11.0
24	11.5	7.5	18.0	14.0	22.0	19.0	24.0	18.5	28.5	15.0	17.0	10.5
25	11.0	9.5	17.5	14.5	21.0	18.5	25.5	17.5	28.0	15.0	17.5	10.0
26	10.0	8.5	17.5	14.0	22.0	17.5	27.0	17.5	28.5	15.5	18.5	9.5
27	10.5	7.5	17.5	14.5	22.5	17.0	27.5	18.5	27.0	17.5	17.5	10.0
28	11.0	8.5	17.0	14.5	24.0	17.5	25.5	19.0	27.5	18.0	14.5	12.5
29	13.0	11.0	16.0	14.5	23.5	19.0	27.0	19.0	30.0	18.0	17.0	9.5
30	13.5	10.5	15.0	13.0	27.0	18.5	24.5	17.0	27.5	17.5	14.5	8.5
31	---	---	15.0	13.5	---	---	27.0	18.5	28.0	18.5	---	---
MONTH	13.5	4.0	18.0	7.5	27.0	14.0	32.0	17.0	30.0	15.0	27.0	8.5
YEAR	32.0	.0										

09172500 SAN MIGUEL RIVER NEAR PLACERVILLE, CO

LOCATION.--Lat 38°02'05", long 108°07'15", in NW¼SW¼ sec.30, T.44 N., R.11 W., San Miguel County, Hydrologic Unit 14030003, on right bank 0.7 mi downstream from Specie Creek and 4.0 mi northwest of Placerville.

DRAINAGE AREA.--308 mi².

PERIOD OF RECORD.--January to December 1909, September 1910 to December 1912, April 1930 to September 1934, April 1942 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "at Placerville," 1910-12.

GAGE.--Water-stage recorder. Datum of gage is 7,055.80 ft above National Geodetic Vertical Datum of 1929, (U.S. Bureau of Reclamation bench mark). See WSP 1713 or 1733 for history of changes prior to Oct. 21, 1958.

REMARKS.--Estimated daily discharges: Oct. 22 to Nov. 14, 20, 21, 26, Dec. 4-11, 20-27, 31, Jan. 4-8, 11-21, 23, Feb. 1-16, 19-25. Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 1,700 acres above station. One diversion from Fall Creek for irrigation of about 2,000 acres in Beaver and Saltado Creek basins. One small ditch diverts water from Leopard Creek to Uncompahgre River basin. Slight regulation by Lake Hope and Trout Lake of Western Colorado Co., combined capacity, 5,040 acre-ft. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--49 years (water years 1911-12, 1931-34, 1943-85), 235 ft³/s; 170,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,000 ft³/s, Sept. 5, 1909 (result of failure of Trout and Middle Reservoir Dams); minimum daily, 26 ft³/s, Jan. 5, 1960.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft³/s, and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 15	1800	1,290	7.28	June 10	0300	*1,950	*8.06
May 10	0200	1,020	6.83	June 16	0100	1,590	7.51
May 14	2100	950	6.67	June 25	0500	1,440	7.24
May 30	0500	1,150	6.90				

Minimum daily discharge, 50 ft³/s, Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	160	98	82	60	67	117	541	873	811	387	183
2	167	160	93	77	50	81	120	566	865	825	387	185
3	160	160	96	81	65	79	152	678	936	845	372	179
4	190	160	90	80	70	73	176	877	950	859	340	171
5	237	150	90	80	65	77	179	856	997	836	316	165
6	202	150	90	85	70	81	217	835	1150	803	307	154
7	189	140	95	85	65	89	289	832	1340	756	300	165
8	175	140	95	85	70	92	373	874	1620	707	285	165
9	167	140	95	96	70	95	468	870	1740	749	283	145
10	167	140	95	96	65	96	583	930	1820	730	265	144
11	165	140	95	90	70	112	683	813	1730	686	270	145
12	175	140	95	85	70	120	758	742	1630	621	248	190
13	181	140	91	80	65	108	829	725	1580	689	204	187
14	193	140	86	85	65	105	883	713	1550	646	193	179
15	181	141	85	90	70	110	945	724	1580	581	201	229
16	171	145	91	90	70	108	922	681	1590	539	208	262
17	177	154	84	90	75	105	891	655	1450	499	201	231
18	179	145	91	90	68	108	846	653	1400	561	223	233
19	175	135	88	85	65	122	767	739	1400	594	223	393
20	173	130	85	80	65	119	623	716	1310	543	210	326
21	171	120	80	80	70	130	610	724	1280	483	239	359
22	170	134	70	87	65	128	555	678	1280	541	216	340
23	170	139	60	80	65	109	515	666	1190	604	203	279
24	170	137	55	82	65	116	487	685	1130	508	193	250
25	170	133	60	82	65	133	553	747	1330	448	185	224
26	180	120	75	93	67	152	508	835	1050	424	171	205
27	180	112	80	88	72	140	475	942	849	397	152	208
28	170	120	89	84	70	133	458	999	821	414	165	213
29	160	108	79	81	---	130	470	1060	857	508	192	229
30	170	107	80	78	---	127	509	1090	787	463	181	200
31	160	---	80	72	---	127	---	1020	---	403	175	---
TOTAL	5439	4140	2636	2619	1872	3372	15961	24466	38085	19073	7495	6538
MEAN	175	138	85.0	84.5	66.9	109	532	789	1270	615	242	218
MAX	237	160	98	96	75	152	945	1090	1820	859	387	393
MIN	144	107	55	72	50	67	117	541	787	397	152	144
AC-FT	10790	8210	5230	5190	3710	6690	31660	48530	75540	37830	14870	12970

CAL YR 1984	TOTAL	151188	MEAN	413	MAX	2400	MIN	55	AC-FT	299900
WTR YR 1985	TOTAL	131696	MEAN	361	MAX	1820	MIN	50	AC-FT	261200

09177000 SAN MIGUEL RIVER AT URAVAN, CO

LOCATION.--Lat 38°21'26", long 108°42'44", in SW¼NE¼ sec.2, T.47 N., R.17 W., Montrose County, Hydrologic Unit 14030003, on right bank 20 ft downstream from bridge on State Highway 141, 400 ft downstream from Tabeguache Creek, and 1.5 mi southeast of Uravan.

DRAINAGE AREA.--1,499 mi^2.

PERIOD OF RECORD.--August 1954 to September 1962, October 1973 to current year.

REVISED RECORDS.--WRD Colo. 1974: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,000 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Sept. 3, 1959, at site 0.5 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Jan. 5-9, 16-24, Feb. 1-10, 13-15. Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation of about 28,000 acres above station, and return flow from irrigated areas. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--20 years (water years 1955-62, 1974-85), 392 ft^3/s; 284,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,050 ft^3/s, May 10, 1983, gage height, 10.14 ft, from rating curve extended above 4,100 ft^3/s; minimum daily, 9.4 ft^3/s, Aug. 10, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 6, 1970, reached a stage of 12.6 ft, from floodmarks, discharge, 8,910 ft^3/s, by slope-area measurement at site 5.5 mi downstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 16	0300	*4,270	*7.77	May 27	0800	2,210	5.96
May 5	0500	3,370	7.02	June 10	0900	2,500	6.25

Minimum daily discharge, 100 ft^3/s, Feb. 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	249	148	144	120	142	430	2100	1540	783	401	115
2	297	238	156	124	110	148	474	1940	1350	800	384	126
3	239	238	138	122	100	164	852	2240	1360	812	396	130
4	368	231	140	134	100	141	1360	2930	1340	806	361	124
5	355	221	136	140	110	128	1210	3030	1330	788	325	115
6	348	217	136	140	110	148	1450	2800	1420	770	297	109
7	293	210	134	140	120	158	1810	2730	1580	735	273	109
8	260	204	150	150	120	158	2240	2720	2110	664	270	120
9	249	204	198	150	120	164	2610	2550	2260	662	266	113
10	235	196	174	157	130	203	2770	2570	2320	680	232	106
11	224	185	182	144	138	341	3030	2290	2250	645	217	109
12	279	193	175	142	138	428	2940	1980	2040	579	220	130
13	307	193	167	126	140	385	3090	1970	1830	607	183	144
14	332	190	152	130	140	302	3110	1770	1780	614	153	138
15	320	178	152	134	140	324	3320	1780	1770	532	142	242
16	281	160	150	130	156	363	3240	1610	1780	501	144	336
17	266	175	156	130	160	384	3010	1560	1610	466	146	230
18	288	182	140	140	177	434	2890	1580	1580	537	140	203
19	270	178	156	140	214	540	2630	1710	1570	602	156	330
20	270	196	156	140	291	491	2090	1740	1490	649	144	361
21	263	178	152	150	344	658	1990	1730	1410	709	150	597
22	259	178	127	150	221	691	2230	1730	1380	644	162	401
23	259	188	126	140	169	522	1860	1630	1280	789	148	357
24	259	196	144	140	148	536	2020	1690	1170	627	138	282
25	245	202	152	145	144	753	2010	1760	1390	538	130	246
26	238	193	189	140	158	928	2160	1930	1220	491	124	221
27	245	155	214	152	135	668	1930	2050	944	475	118	202
28	256	146	244	148	150	545	1960	2050	856	416	115	224
29	235	174	224	144	---	491	2010	1980	872	516	115	279
30	235	156	168	136	---	461	1900	1950	813	565	126	250
31	245	---	156	120	---	416	---	1750	---	457	122	---
TOTAL	8395	5804	4992	4322	4303	12215	64626	63850	45645	19459	6298	6449
MEAN	271	193	161	139	154	394	2154	2060	1522	628	203	215
MAX	368	249	244	157	344	928	3320	3030	2320	812	401	597
MIN	175	146	126	120	100	128	430	1560	813	416	115	106
AC-FT	16650	11510	9900	8570	8540	24230	128200	126600	90540	38600	12490	12790

CAL YR 1984 TOTAL 281963 MEAN 770 MAX 5440 MIN 105 AC-FT 559300
WTR YR 1985 TOTAL 246358 MEAN 675 MAX 3320 MIN 100 AC-FT 488700

09179200 SALT CREEK NEAR GATEWAY, CO

LOCATION.--Lat 38°31'59", long 108°58'13", in sec.3, T.49 N., R.19 W., Mesa County, Hydrologic Unit 14030004, on left bank 3.5 mi upstream from mouth and 10 mi south of Gate way.

DRAINAGE AREA.--31.2 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1979 to September 1985 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 5,220 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 13 to Nov. 12, Nov. 15-26, Dec. 8 to Feb. 23, June 24 to July 20, July 22, 24 to Aug. 7, Aug. 9 to Sept. 14. Records fair except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--6 years, 1.64 ft^3/s; 1,190 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,670 ft^3/s, July 12, 1981, gage height, 13.34 ft, result of slope-area measurement of peak flow; minium daily, 0.02 ft^3/s, Oct. 7, 1979, July 30, 1982.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 28	0600	*52	*3.15				

Minimum daily, 0.04 ft^3/s, June 18-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	.17	.17	.11	.13	.26	1.1	.46	.10	.10	.17	.17
2	18	.17	.26	.11	.10	.31	1.3	.50	.10	.20	.17	.17
3	3.5	.17	.22	.11	.12	.22	1.1	.26	.10	.10	.17	.17
4	4.1	.17	.22	.11	.12	.25	1.3	.26	.11	.09	.16	.17
5	4.0	.17	.11	.11	.13	.45	.78	.26	.11	.09	.16	.17
6	1.3	.17	.22	.11	.13	.22	.94	.22	.10	.08	.16	.17
7	.61	.17	.17	.12	.14	.26	1.8	.26	.09	.08	.15	.17
8	.44	.17	.10	.12	.14	.26	3.2	.26	.17	.08	.76	.17
9	.26	.17	.12	.12	.14	.26	2.9	.41	.49	.08	.18	.17
10	.59	.17	.12	.12	.14	.26	2.9	.76	.36	.08	.18	.17
11	1.1	.17	.12	.12	.14	.17	3.6	.60	.22	.08	.17	.17
12	2.2	.17	.12	.12	.14	.22	5.3	.55	.12	.20	.17	.17
13	.30	.17	.12	.13	.14	.12	4.1	.46	.22	.12	.18	.17
14	.26	.17	.12	.13	.14	.12	3.8	.41	.10	.08	.18	.17
15	.24	.17	.12	.13	.14	.17	2.3	.41	.10	.07	.18	2.3
16	.25	.15	.12	.13	.14	.12	1.3	.34	.06	.07	.18	.22
17	.25	.15	.12	.13	.15	.35	1.1	.31	.09	.07	.18	.54
18	.25	.15	.12	.14	.15	.23	2.0	.31	.04	.07	.18	2.9
19	.23	.15	.12	.14	.15	.45	.80	.31	.04	.07	.18	.18
20	.22	.14	.12	.14	.15	.31	1.3	.46	.06	.07	.18	.10
21	.21	.14	.12	.14	.16	.31	2.0	.50	.06	.07	.17	.12
22	.20	.13	.12	.14	.16	.22	1.1	.50	.07	2.3	.17	.26
23	.19	.13	.12	.14	.17	.22	.51	.23	.09	.51	.17	.12
24	.18	.13	.12	.14	.17	.17	.93	.17	.09	.12	.17	.12
25	.17	.13	.12	.14	.24	.17	.94	.17	.09	.49	.17	.22
26	.17	.12	.11	.15	.26	.22	.51	.17	.08	.60	.17	.11
27	.17	.12	.11	.15	.22	.31	.46	.12	.08	.20	.17	.10
28	.17	.12	.11	.15	.26	1.6	.31	.12	2.3	.95	.17	.26
29	.17	.12	.11	.15	---	2.6	.22	.17	.10	.16	.17	.46
30	.17	.17	.11	.15	---	2.6	.36	.12	.10	1.1	.17	.46
31	.17	---	.11	.15	---	1.1	---	.11	---	.18	.17	---
TOTAL	42.67	4.60	4.17	4.05	4.37	14.53	50.26	10.19	5.84	8.56	5.91	10.85
MEAN	1.38	.15	.13	.13	.16	.47	1.68	.33	.19	.28	.19	.36
MAX	18	.17	.26	.15	.26	2.6	5.3	.76	2.3	2.3	.76	2.9
MIN	.17	.12	.10	.11	.10	.12	.22	.11	.04	.07	.15	.10
AC-FT	85	9.1	8.3	8.0	8.7	29	100	20	12	17	12	22

CAL YR 1984	TOTAL	168.24	MEAN	.46	MAX	18	MIN	.05	AC-FT	334
WTR YR 1985	TOTAL	166.00	MEAN	.45	MAX	18	MIN	.04	AC-FT	329

09179200 SALT CREEK NEAR GATEWAY, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: February to September 1981, April 1982 to September 1985, (discontinued).
WATER TEMPERATURE: February to September 1981, April 1982 to September 1985, (discontinued).

INSTRUMENTATION.--Water-quality monitor and pumping sampler February 1981 to September 1985.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 100,000 microsiemens July 4, 1981; minimum, 1,000 microsiemens July 8, 11, 1981.
WATER TEMPERATURE: Maximum, 35.0°C June 26, 1981; minimum, freezing point many days each winter.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT								
10...	1400	.10	54800	8.1	17.0	6.2	3300	710
10...	1440	.80	45700	8.1	12.0	--	2900	660
NOV								
15...	1300	.15	39700	8.3	6.5	8.1	2900	630
DEC								
18...	1200	.12	44000	8.1	-.5	8.3	3000	650
JAN								
30...	1300	.20	50000	8.1	-1.5	10.3	2700	600
FEB								
26...	1300	.17	44500	8.1	11.0	7.0	3100	650
MAR								
25...	1400	.17	51500	8.4	15.0	7.2	3700	780
APR								
29...	1400	.20	33300	8.4	21.0	5.9	2300	490
JUN								
03...	1400	.10	55100	8.3	21.0	3.8	3300	690
20...	1300	.07	58000	8.3	30.0	3.0	3600	780
JUL								
22...	1430	.17	55100	8.2	23.0	5.2	3200	670
AUG								
28...	1100	.17	64900	8.2	15.5	5.4	3400	690
SEP								
27...	1430	.11	57000	8.2	19.0	5.8	3400	720

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT									
10...	370	14000	110	540	203	2500	23000	.30	9.6
10...	310	6600	55	440	176	2100	19000	.30	8.6
NOV									
15...	330	9900	82	370	186	2300	16000	.40	11
DEC									
18...	340	11000	90	410	195	2300	19000	.30	8.9
JAN									
30...	300	12000	100	440	168	2300	20000	.30	9.5
FEB									
26...	360	11000	88	460	197	2300	21000	.30	9.6
MAR									
25...	430	14000	100	570	123	2300	22000	.40	6.7
APR									
29...	260	8000	75	340	140	1500	14000	.30	10
JUN									
03...	390	13000	100	640	150	2300	24000	.40	9.9
20...	400	14000	100	630	146	2700	24000	.60	10
JUL									
22...	370	11000	87	550	165	2700	23000	.40	12
AUG									
28...	400	16000	120	620	170	2500	29000	.50	9.0
SEP									
27...	400	16000	120	690	173	2200	25000	.40	8.3

09179200 SALT CREEK NEAR GATEWAY, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)
OCT								
10...	41000	56.1	11	.25	<.010	250	440	--
10...	29000	39.7	63	.33	<.010	190	360	--
NOV								
15...	30000	40.3	12	.16	<.010	190	400	--
DEC								
18...	34000	46.0	11	.17	.010	200	300	--
JAN								
30...	36000	48.6	19	.29	<.010	160	230	--
FEB								
26...	36000	48.8	16	.27	.010	190	260	--
MAR								
25...	40000	54.6	18	.29	<.010	200	210	--
APR								
29...	25000	33.6	13	.12	<.010	110	160	1
JUN								
03...	41000	55.9	11	.30	<.010	200	160	2
20...	43000	57.9	8.1	.26	<.010	190	90	1
JUL								
22...	38000	52.2	18	.19	<.010	240	650	<1
AUG								
28...	49000	67.1	23	.34	.020	250	250	<1
SEP								
27...	45000	61.4	13	.34	<.010	160	260	<1

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					JUL				
10...	1440	.80	29700	64	22...	1900	27	258000	18800

09236000 BEAR RIVER NEAR TOPONAS, CO

LOCATION.--Lat 40°03'00", long 107°04'00", in NW¼ sec.20, T.1 N., R.86 W., Garfield County, Hydrologic Unit 14050001, on right bank just downstream from Yampa Reservoir Dam at Stillwater campground, 0.8 mi downstream from Mandall Creek, 0.8 mi upstream from Dome Creek, and 14 mi west of Toponas.

DRAINAGE AREA.--23 mi^2, approximately.

PERIOD OF RECORD.--October 1952 to September 1965, October 1966 to current year. Published as Yampa River near Toponas prior to October 1973.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 9,700 ft, from river-profile map. Oct. 28, 1952, to Sept. 30, 1965, water-stage recorder at site 50 ft upstream at different datum.

REMARKS.--Estimated daily discharges: Apr. 23 to May 20. Records good except for estimated daily discharges, which are fair. Flow regulated by Stillwater Reservoir, capacity, 6,200 acre-ft, 3.5 mi upstream and Yampa Reservoir, capacity, 620 acre-ft.

AVERAGE DISCHARGE.--13 years (water years 1953-65), 40.3 ft^3/s; 29,200 acre-ft/yr, prior to filling of Stillwater Reservoir; 18 years (water years 1968-85), 41.0 ft^3/s, 29,700 acre-ft/yr, subsequent to filling of Stillwater Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 436 ft^3/s, July 2, 1957, gage height, 6.39 ft, site and datum then in use; minimum daily, 1.6 ft^3/s, Oct. 6-24, Nov. 18 to Dec. 8, 1966, during filling of Stillwater Reservoir.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 230 ft^3/s at 2400 June 15, gage height, 2.70 ft; minimum daily, 15 ft^3/s, Mar. 8-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	28	26	22	19	17	17	32	85	101	44	30
2	55	28	27	21	19	17	16	33	85	93	43	31
3	56	28	26	21	19	17	16	34	94	105	41	33
4	56	27	25	21	19	16	17	35	97	108	41	31
5	35	27	24	21	19	16	17	36	100	110	41	30
6	29	27	24	21	19	16	17	36	103	115	41	29
7	27	27	25	21	19	16	17	37	115	115	39	29
8	28	27	24	21	19	15	17	38	136	120	38	29
9	32	28	24	22	19	15	16	39	141	131	39	29
10	34	28	24	22	19	15	16	40	140	163	37	28
11	34	27	24	22	19	20	16	41	140	163	38	29
12	33	26	26	22	19	20	17	42	154	160	43	30
13	33	26	26	22	20	19	17	43	156	158	38	28
14	33	28	24	22	19	19	17	44	164	154	36	28
15	33	27	24	22	19	18	20	45	197	145	35	28
16	33	26	24	22	20	18	22	46	218	107	35	28
17	32	26	24	22	20	18	24	47	206	100	35	27
18	31	26	24	21	20	18	27	48	185	99	34	28
19	30	26	25	21	20	17	27	49	180	102	33	29
20	30	26	24	20	19	16	26	50	177	100	33	28
21	30	25	24	19	18	17	26	52	179	99	33	29
22	29	25	24	19	18	17	26	51	176	96	33	30
23	29	25	24	19	18	16	27	55	173	87	31	28
24	28	25	23	19	18	16	27	64	163	79	31	28
25	28	25	22	19	17	17	28	71	161	71	31	28
26	28	25	22	19	17	17	29	72	160	68	31	28
27	29	25	22	18	17	16	29	77	151	57	31	28
28	29	25	22	19	17	17	30	87	135	56	31	29
29	28	25	22	19	---	17	30	96	108	54	31	28
30	28	25	22	19	---	16	31	94	107	46	31	26
31	28	---	22	19	---	17	---	86	---	45	30	---
TOTAL	1036	789	743	637	525	526	662	1620	4386	3207	1108	864
MEAN	33.4	26.3	24.0	20.5	18.8	17.0	22.1	52.3	146	103	35.7	28.8
MAX	56	28	27	22	20	20	31	96	218	163	44	33
MIN	27	25	22	18	17	15	16	32	85	45	30	26

CAL YR 1984	TOTAL	20046	MEAN	54.8	MAX	230	MIN	16
WTR YR 1985	TOTAL	16103	MEAN	44.1	MAX	218	MIN	15

09237500 YAMPA RIVER NEAR OAK CREEK, CO.

LOCATION.--Lat 40°17'15", long 106°49'33", in SE¼NE¼ sec. 29, T. 4 N., R. 84 W., Routt County, Hydrologic Unit 14050001, on left bank, 1.0 mi upstream from Morrison Creek and 6.5 mi east of Oak Creek, Co.

DRAINAGE AREA.--227 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1939 to September 1944 (monthly discharge only for some periods, published in WSP 1313), October 1956 to September 1972, October 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,050 ft, from topographic map. Sept. 1939 to Nov. 15, 1939, nonrecording gage, Nov. 16 1939, to Sept 1944 and Oct. 1956 to Sept 1972, water-stage recorder at site 0.5 mi upstream, at different datum.

REMARKS.--Estimated daily discharges: Dec. 20 to Apr. 4. Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 12,000 acres above station. Natural flow of stream affected by 2 diversions for irrigation to Egeria Creek into Colorado River basin and by storage in Stillwater, Yampa and YamColo Reservoirs (total capacity, 15,820 acre-ft).

AVERAGE DISCHARGE.--22 years, 88.5 ft^3/s; 64,120 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,400 ft^3/s, Apr. 16, 1962, gage height, 7.56 ft, from rating curve extended above 570 ft^3/s, site and datum then in use; minimum daily, 8.9 ft^3/s May 22, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 447 ft^3/s at 2200 May 12, gage height 3.43 ft; maximum gage height, 4.59 ft, Mar. 15 (backwater from ice); minimum daily discharge, 54 ft^3/s Jan. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	97	108	76	64	78	97	316	202	148	191	67
2	137	96	108	74	64	78	98	315	194	131	172	70
3	137	97	109	72	65	78	99	347	187	129	158	70
4	146	96	109	70	65	79	100	382	182	125	148	75
5	151	96	109	68	66	80	107	406	164	119	140	80
6	122	97	109	66	66	80	122	373	175	107	138	70
7	111	106	108	64	67	80	223	342	181	99	133	66
8	106	108	108	62	67	80	284	345	212	101	129	71
9	104	109	109	60	68	80	345	379	256	109	125	67
10	102	109	109	60	69	80	317	393	256	111	120	64
11	104	109	108	60	70	80	306	420	211	111	122	64
12	99	109	108	58	71	80	300	400	167	114	127	65
13	102	109	108	56	74	80	309	408	149	146	96	61
14	106	109	108	54	75	81	271	349	140	123	95	61
15	104	108	108	55	75	82	293	321	149	114	90	65
16	108	109	109	56	75	83	298	310	159	124	87	66
17	108	108	109	56	75	84	307	313	187	128	85	64
18	117	109	109	57	75	85	300	328	184	167	94	63
19	113	108	108	57	76	86	329	333	175	317	96	66
20	115	108	100	58	76	87	267	316	169	259	89	65
21	117	108	98	58	76	88	251	309	168	297	89	71
22	117	108	96	59	76	89	233	330	157	258	91	76
23	117	108	94	59	76	90	235	319	155	298	85	87
24	115	108	92	60	76	90	279	307	172	269	80	80
25	113	108	90	60	76	90	278	294	221	226	79	85
26	117	109	88	61	76	91	267	326	221	217	81	89
27	102	109	86	61	77	92	253	294	206	225	77	90
28	102	109	84	62	78	93	294	267	183	220	78	98
29	97	109	82	62	---	94	316	239	159	262	77	101
30	104	109	80	63	---	95	289	220	152	259	72	92
31	101	---	78	63	---	96	---	196	---	210	70	---
TOTAL	3507	3182	3129	1907	2014	2629	7467	10197	5493	5523	3314	2209
MEAN	113	106	101	61.5	71.9	84.8	249	329	183	178	107	73.6
MAX	151	109	109	76	78	96	345	420	256	317	191	101
MIN	97	96	78	54	64	78	97	196	140	99	70	61
AC-FT	6960	6310	6210	3780	3990	5210	14810	20230	10900	10950	6570	4380

WTR YR 1985 TOTAL 50571 MEAN 139 MAX 420 MIN 54 AC-FT 100300

09237500 YAMPA RIVER NEAR OAK CREEK, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SUSPENDED SEDIMENT DISCHARGE: May 1985 to September 1985.

INSTRUMENTATION.--Automatic pumping sediment sampler May 1985 to September 1985.

REMARKS.--Data from the 1984 water year are published in this report. This station is part of a hydrologic investigation for a proposed reservoir, data for related stations, Martin Creek, Little Morrison Creek, Middle Creek, and Yampa River, (all located above the dam site) are published elsewhere in this report.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
JUL										
19...	11:45	168	455	8.3	16.5	7.7	--	210	52	20
NOV										
21...	13:45	108	375	8.5	0.0	10.3	--	190	50	17
MAY										
02...	15:00	318	419	8.4	11.0	8.7	--	210	54	19
30...	12:00	241	320	8.4	9.5	--	0.92	170	46	14
JUN										
05...	14:00	191	368	8.5	15.0	8.4	0.51	190	50	16
JUL										
10...	13:30	115	482	8.3	19.0	7.6	--	270	72	22
30...	10:45	221	490	8.4	12.5	--	--	250	64	21
AUG										
12...	14:00	117	433	8.3	14.5	8.0	--	220	57	20
SEP										
27...	13:00	86	331	8.6	6.5	9.3	--	170	42	15

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
JUL									
19...	10	0.3	1.8	191	53	1.7	0.2	14	270
NOV									
21...	10	0.3	1.8	160	50	2.2	0.1	18	250
MAY									
02...	11	0.3	2.7	153	71	2.5	0.1	16	270
30...	8.2	0.3	1.9	125	43	1.9	0.2	17	210
JUN									
05...	9.5	0.3	2.1	151	47	1.8	0.1	19	240
JUL									
10...	12	0.3	2.3	207	58	1.9	0.2	22	320
30...	13	0.4	0.4	185	74	2.5	0.2	19	310
AUG									
12...	12	0.4	2.1	154	55	2.2	0.2	19	260
SEP									
27...	8.5	0.3	1.7	135	39	1.7	0.1	17	210

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
JUL									
19...	0.36	122	<0.01	<0.10	0.05	--	<0.2	0.01	<0.01
NOV									
21...	0.33	72	<0.01	<0.10	0.05	0.35	0.4	0.01	0.02
MAY									
02...	0.36	230	<0.01	0.23	0.06	0.74	0.8	0.02	<0.01
30...	0.28	135	<0.01	0.12	0.06	0.74	0.8	0.03	<0.01
JUN									
05...	0.32	122	<0.01	0.11	0.04	0.36	0.4	0.04	<0.01
JUL									
10...	0.43	98	<0.01	<0.10	0.04	0.36	0.4	0.05	0.04
30...	0.41	182	<0.01	<0.10	0.04	0.76	0.8	0.03	<0.01
AUG									
12...	0.35	82	<0.01	<0.10	0.03	0.47	0.5	0.02	0.01
SEP									
27...	0.28	48	<0.01	<0.10	0.07	0.23	0.3	0.03	0.02

09237500 YAMPA RIVER NEAR OAK CREEK, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)
JUL 19...	11:45	--	--	<1	150	--	30	<1	<10	--	3
MAY 30...	12:00	30	<1	<1	43	1	10	<1	<1	1	5
JUL 10...	13:30	10	<1	<1	62	<0.5	30	<1	<1	<1	6

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
JUL 19...	28	<1	--	<1	<0.1	<1	<1	2	<1	350	16
MAY 30...	71	3	15	14	<0.1	<1	6	<1	<1	240	19
JUL 10...	52	1	17	24	0.2	6	2	<1	<1	370	8

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE (DEG C)
MAY 1985 09...	13:30	375	332	9.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
NOV 21...	13:45	108	26	7.6	JUL 30...	10:45	221	255	152
MAY 02...	15:00	318	322	276	AUG 12...	14:00	117	71	22
21...	12:00	308	212	176	SEP 27...	13:00	86	24	5.6
30...	12:00	241	242	157					

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAY 09...	375	341	345	22	31	49	81	92	98	99	100	--
JUN 05...	191	127	65	--	--	--	--	--	--	--	--	72
JUL 10...	115	41	13	--	--	--	--	--	--	--	--	50

09237500 YAMPA RIVER NEAR OAK CREEK, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	97			316	---	270	202	152	83
2	98			315	322	274	194	144	75
3	99			347	---	300	187	124	63
4	100			382	---	320	182	134	66
5	107			406	---	350	164	125	55
6	122			373	---	320	175	158	75
7	223			342	---	300	181	122	60
8	284			345	---	300	212	186	106
9	345			379	340	348	256	392	271
10	317			393	---	370	256	278	192
11	306			420	---	440	211	---	134
12	300			400	---	390	167	168	76
13	309			408	---	380	149	111	45
14	271			349	---	290	140	95	36
15	293			321	---	270	149	118	47
16	298			310	---	250	159	98	42
17	307			313	---	250	187	115	58
18	300			328	---	270	184	100	50
19	329			333	---	270	175	108	51
20	267			316	---	260	169	90	41
21	251			309	---	240	168	136	62
22	233			330	---	280	157	111	47
23	235			319	---	270	155	---	45
24	279			307	---	260	172	95	44
25	278			294	---	250	221	---	52
26	267			326	---	240	221	87	52
27	253			294	---	200	206	77	43
28	294			267	---	190	183	133	66
29	316			239	265	171	159	---	64
30	289			220	247	147	152	---	62
31	---			196	251	133	---	---	---
TOTAL	7467			10197	---	8603	5493	---	2163
		JULY			AUGUST			SEPTEMBER	
1	148	---	58	191	113	58	67	---	2.0
2	131	---	40	172	111	52	70	10	1.9
3	129	---	30	158	104	44	70	12	2.3
4	125	---	25	148	117	47	75	12	2.4
5	119	---	20	140	---	46	80	---	2.6
6	107	---	10	138	---	45	70	---	2.3
7	99	---	9.0	133	---	40	66	---	2.0
8	101	---	9.0	129	---	38	71	---	2.5
9	109	---	10	125	---	32	67	---	2.3
10	111	37	11	120	---	28	64	---	2.3
11	111	58	17	122	---	22	64	---	2.3
12	114	102	31	127	83	28	65	---	2.3
13	146	207	82	96	107	28	61	---	2.4
14	123	115	38	95	46	12	61	---	2.4
15	114	---	35	90	33	8.0	65	---	2.8
16	124	---	40	87	20	4.7	66	---	2.8
17	128	---	45	85	23	5.3	64	---	2.8
18	167	136	61	94	34	8.6	63	---	2.8
19	317	264	226	96	22	5.7	66	---	3.0
20	259	---	130	89	15	3.6	65	---	3.0
21	297	210	168	89	13	3.1	71	---	3.0
22	258	131	91	91	---	3.5	76	---	3.0
23	298	167	134	85	24	5.5	87	---	3.4
24	269	158	115	80	33	7.1	80	---	3.2
25	226	135	82	79	21	4.5	85	---	3.6
26	217	121	71	81	---	2.8	89	---	4.0
27	225	114	69	77	14	2.9	90	18	4.4
28	220	101	60	78	29	6.1	98	---	4.8
29	262	114	81	77	17	3.5	101	---	5.2
30	259	225	157	72	35	6.8	92	---	4.0
31	210	135	77	70	11	2.1	---	---	---
TOTAL	5523	---	2032.0	3314	---	603.8	2209	---	87.8

09238500 WALTON CREEK NEAR STEAMBOAT SPRINGS, CO

LOCATION.--Lat 40°24'29", long 106°47'11", in SW¼NW¼ sec.11, T.5 N., R.84 W., Routt County, Hydrologic Unit 14050001, on left bank, 0.4 mi upstream from Beaver Creek, 0.6 mi downstream from Storm King Creek, 4.5 mi upstream from mouth, and 6.0 mi southeast of Steamboat Springs.

DRAINAGE AREA.--42.4 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1920 to September 1922, monthly discharge only, published in WSP 1313. October 1965 to September 1973, flow of Highline Canal included. Annual maximum discharge, water years 1978-81. May 1982 to current year.

REVISED RECORDS.--WDR-CO-82-3: 1978-81 (M).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 7,050 ft, from topographic map. Prior to Oct. 1, 1965, water-stage recorder at site 0.2 mi downstream at different datum. Supplementary water-stage recorder on Highline Canal, May 18, 1966 to Sept. 30, 1973. Operated as a crest-stage partial-record site, June 1978 to May 1982, at present site and datum. October 1983 to current year.

REMARKS.--Estimated daily discharges: Feb. 12, Apr. 29 and 30. Records good. Diversion above station by Highline Canal from Beaver and Storm King Creeks for irrigation below station. No other diversion above station.

AVERAGE DISCHARGE.--13 years (water years 1921-22, 1966-73, 1984-85), 88.8 ft³/s; 64,340 acre-ft/yr, unadjusted for diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,800 ft³/s, June 15, 1921; minimum daily, 4.5 ft³/s Oct. 29, Nov. 7, 8, 1921, Aug. 28, 29, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s, and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 29	2100	1,120	2.53	June 8	1900	*1,720	*2.87

Minimum daily discharge, 7.7 ft³/s, Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	18	11	15	17	8.8	15	144	525	116	27	8.6
2	23	21	11	20	15	8.8	16	180	656	108	27	13
3	17	18	12	17	13	9.2	21	209	760	100	34	15
4	26	21	12	21	12	9.6	22	230	821	89	21	12
5	55	23	11	21	12	11	19	283	921	81	17	11
6	35	18	13	20	12	9.9	18	294	881	73	16	9.1
7	23	17	14	17	12	9.6	22	289	1040	67	15	8.9
8	18	17	15	15	11	9.2	28	340	1180	61	13	11
9	18	15	12	15	11	9.2	40	346	1110	59	17	9.1
10	16	21	10	13	11	9.6	42	337	877	60	14	8.2
11	16	21	11	12	11	9.6	49	326	632	52	12	8.7
12	15	19	11	14	11	9.2	56	264	548	49	40	18
13	18	21	11	18	11	9.2	66	230	506	73	16	9.9
14	24	19	11	15	11	9.9	76	209	494	46	13	8.7
15	17	21	10	14	10	9.6	96	202	457	38	12	12
16	17	21	10	13	10	9.6	118	210	433	34	11	14
17	18	18	10	11	10	9.6	130	238	391	33	10	9.1
18	17	18	11	9.9	9.9	9.9	147	268	324	44	9.9	8.7
19	22	16	10	11	11	13	171	273	287	76	11	10
20	22	15	10	13	9.6	14	134	286	268	49	11	11
21	21	13	10	13	9.2	15	112	319	261	52	9.7	21
22	22	13	11	14	8.8	16	96	347	220	36	9.8	17
23	20	12	16	15	8.5	14	88	386	201	82	9.3	20
24	20	12	12	16	8.8	14	83	483	199	78	8.7	18
25	22	12	14	14	8.8	17	74	595	267	46	8.6	14
26	21	12	12	15	8.8	19	72	722	234	54	8.3	18
27	18	12	12	13	9.6	17	76	757	223	40	8.3	20
28	22	12	12	13	9.2	17	83	802	167	28	8.4	31
29	19	12	14	13	---	16	100	899	138	56	8.3	20
30	20	12	14	13	---	17	119	825	124	71	7.9	15
31	19	---	14	14	---	15	---	602	---	42	7.7	---
TOTAL	655	500	367	457.9	302.2	375.5	2189	11895	15145	1893	441.9	410.0
MEAN	21.1	16.7	11.8	14.8	10.8	12.1	73.0	384	505	61.1	14.3	13.7
MAX	55	23	16	21	17	19	171	899	1180	116	40	31
MIN	14	12	10	9.9	8.5	8.8	15	144	124	28	7.7	8.2
AC-FT	1300	992	728	908	599	745	4340	23590	30040	3750	877	813

CAL YR 1984	TOTAL	51997.3	MEAN	142	MAX	1270	MIN	8.7	AC-FT	103100
WTR YR 1985	TOTAL	34631.5	MEAN	94.9	MAX	1180	MIN	7.7	AC-FT	68690

09238500 WALTON CREEK NEAR STEAMBOAT SPRINGS, CO--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
MAY									
08...	12:40	360	28	7.5	3.5	10.4	13	3.9	0.7
JUL									
16...	10:45	36	37	7.5	--	--	15	4.4	0.91
AUG									
09...	11:15	18	42	7.7	14.5	--	18	5.4	1.1

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAY									
08...	1.1	0.1	0.7	12	6.4	0.4	<0.1	7.5	28
JUL									
16...	1.7	0.2	0.6	14	5.1	0.2	<0.1	8.9	30
AUG									
09...	2.0	0.2	0.7	18	5.4	0.3	<0.1	9.8	36

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
MAY									
08...	0.04	27	<0.01	<0.10	0.05	0.25	0.3	0.01	0.01
JUL									
16...	0.04	2.9	<0.01	<0.10	0.03	0.17	0.2	<0.01	<0.01
AUG									
09...	0.05	1.7	<0.01	<0.10	0.03	0.37	0.4	<0.01	<0.01

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ANTI-MONY, DIS-SOLVED (UG/L AS SB)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)
MAY											
08...	12:40	120	<1	<1	19	3	<10	<1	1	<1	2

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAY											
08...	96	4	<4	9	<0.1	<1	5	<1	1	28	4

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAY				
08...	12:40	360	5	4.9
JUL				
16...	10:45	36	4	0.39
AUG				
09...	11:15	18	0	--

09238700 FISH CREEK TRIBUTARY ABOVE LONG LAKE, NEAR BUFFALO PASS, CO

LOCATION.--Lat 40°28'24", Long 106'40'46", in SE¼NW¼ sec. 23, T.6N., R.83W., Routt County, Hydrologic Unit 14050001, on left bank 0.2 mi above Long Lake, and 7.5 mi east of Steamboat Springs.

DRAINAGE AREA.--0.43 mi².

PERIOD OF RECORD.--August 31, 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 9,885 ft, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 31 ft³/s at 1700 June 15, gage height 2.06 ft; minimum daily, 0.03 ft³/s, Jan. 25-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.21	.20	.07	.04	.04	.04	.24	1.7	7.7	2.6	.32	.15
2	.54	.19	.05	.04	.04	.04	.24	2.2	8.1	2.4	.40	.28
3	.29	.18	.05	.04	.04	.04	.25	2.6	9.7	2.2	.29	.43
4	.92	.18	.05	.04	.04	.04	.29	3.1	11	2.1	.19	.16
5	1.2	.17	.05	.04	.04	.04	.29	3.6	12	1.9	.17	.13
6	.61	.17	.05	.04	.04	.04	.29	3.7	12	1.7	.15	.08
7	.34	.15	.05	.04	.04	.04	.27	3.4	14	1.5	.12	.11
8	.28	.14	.04	.04	.04	.04	.30	4.1	18	1.3	.10	.13
9	.25	.14	.04	.04	.04	.05	.34	4.7	18	1.5	.45	.08
10	.23	.14	.04	.04	.04	.05	.33	4.4	16	1.5	.17	.07
11	.20	.15	.04	.04	.04	.06	.39	4.3	13	1.0	.34	.26
12	.24	.13	.04	.04	.04	.07	.48	3.3	12	1.5	.81	.25
13	.28	.12	.04	.04	.04	.08	.50	2.6	13	1.6	.20	.10
14	.28	.12	.04	.04	.04	.10	.60	2.2	17	.76	.14	.08
15	.31	.12	.04	.04	.04	.10	.92	2.0	17	.61	.12	.30
16	.31	.12	.04	.04	.04	.10	1.2	2.1	17	.52	.11	.15
17	.31	.12	.04	.04	.04	.11	1.4	2.6	15	.50	.11	.09
18	.29	.11	.04	.04	.04	.12	1.6	3.3	12	.93	.11	.09
19	.29	.10	.04	.04	.04	.12	1.9	3.6	10	1.0	.23	.15
20	.30	.09	.04	.04	.04	.14	1.5	3.7	9.8	.72	.15	.25
21	.31	.08	.04	.04	.04	.13	1.2	3.8	9.7	.65	.13	.28
22	.30	.07	.04	.04	.04	.14	.96	4.0	6.8	.55	.13	.27
23	.26	.06	.04	.04	.04	.14	.80	4.4	6.1	1.3	.10	.40
24	.24	.05	.04	.04	.04	.15	.69	5.9	7.0	.82	.09	.24
25	.23	.05	.04	.03	.04	.16	.63	7.0	8.7	.50	.09	.38
26	.23	.05	.04	.03	.04	.18	.60	7.9	5.3	.67	.08	.64
27	.22	.05	.04	.03	.04	.18	.62	9.1	4.9	.44	.09	.38
28	.20	.05	.04	.03	.04	.19	.98	10	3.0	.30	.08	.41
29	.20	.05	.04	.04	---	.22	1.3	10	2.9	2.0	.07	.39
30	.20	.06	.04	.04	---	.23	1.3	11	2.9	1.0	.07	.33
31	.20	---	.04	.04	---	.24	---	9.3	---	.51	.06	---
TOTAL	10.27	3.41	1.33	1.20	1.12	3.38	22.41	145.6	319.6	36.58	5.67	7.06
MEAN	.33	.11	.04	.04	.04	.11	.75	4.70	10.7	1.18	.18	.24
MAX	1.2	.20	.07	.04	.04	.24	1.9	11	18	2.6	.81	.64
MIN	.20	.05	.04	.03	.04	.04	.24	1.7	2.9	.30	.06	.07
AC-FT	20	6.8	2.6	2.4	2.2	6.7	44	289	634	73	11	14

WTR YR 1985 TOTAL 557.63 MEAN 1.53 MAX 18 MIN .03 AC-FT 1110

09238710 FISH CREEK TRIBUTARY BELOW LONG LAKE, NEAR BUFFALO PASS, CO.

LOCATION.--Lat 40°28'36", Long 106°41'13", in NE¼SE¼ sec. 22, T.6N., R.83W., Routt county, Hydrologic Unit 14050001, on right bank, 0.1 mi below Long Lake Spillway, and 7.5 mi east of Steamboat Springs.

DRAINAGE AREA.--1.03 mi^2.

PERIOD OF RECORD.--August 29, 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 9,860 ft, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 21 to May 6, May 17-25, June 2-25. Records good above 1.0 ft^3/s and fair below 1.0 ft^3/s except for estimated daily discharges, May 17-25 and June 2-25, which are poor. Flow regulated by Long Lake Reservoir, capacity 397 acre-ft, 0.1 mi upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 37 ft^3/s June 8, from rating curve extended above 16 ft^3/s, gage height, 2.30 ft, from highwater mark; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.05	.03	.00	.00	.00	.00	.03	6.3	4.3	1.3	.00
2	.04	.05	.03	.00	.00	.00	.00	.04	12	4.1	1.1	.00
3	.04	.15	.03	.00	.00	.00	.00	.05	15	4.0	.95	.03
4	.06	.25	.03	.00	.00	.00	.00	.05	17	3.9	.77	.03
5	.08	.14	.03	.00	.00	.00	.00	.05	19	3.8	.53	.02
6	.07	.06	.03	.00	.00	.00	.00	.06	22	3.6	.36	.00
7	.05	.04	.03	.00	.00	.00	.00	.07	25	3.3	.25	.00
8	.04	.04	.03	.00	.00	.00	.00	.07	31	3.0	.16	.01
9	.04	.04	.07	.00	.00	.00	.00	.09	31	2.8	.23	.01
10	.04	.23	.03	.00	.00	.00	.00	.14	27	3.0	.20	.00
11	.04	.25	.03	.00	.00	.00	.00	.20	25	2.7	.16	.00
12	.04	.17	.03	.00	.00	.00	.00	.25	20	2.3	.32	.04
13	.04	.11	.03	.00	.00	.00	.00	.31	26	3.0	.25	.02
14	.04	.09	.03	.00	.00	.00	.00	.40	30	2.3	.20	.02
15	.04	.12	.03	.00	.00	.00	.00	.56	30	1.8	.11	.03
16	.04	.13	.02	.00	.00	.00	.00	.83	30	1.5	.07	.05
17	.06	.09	.02	.00	.00	.00	.00	.90	30	1.3	.05	.02
18	.09	.08	.02	.00	.00	.00	.00	1.1	27	1.3	.04	.02
19	.09	.07	.02	.00	.00	.00	.00	1.2	24	1.7	.03	.02
20	.12	.06	.02	.00	.00	.00	.00	1.3	20	1.6	.02	.02
21	.11	.06	.01	.00	.00	.00	.00	1.5	17	1.5	.01	.04
22	.09	.06	.01	.00	.00	.00	.00	1.6	14	1.3	.00	.05
23	.08	.05	.01	.00	.00	.00	.00	1.9	12	1.4	.00	.06
24	.07	.05	.01	.00	.00	.00	.00	2.1	18	1.7	.00	.05
25	.06	.05	.01	.00	.00	.00	.00	2.3	15	1.5	.00	.04
26	.05	.04	.01	.00	.00	.00	.00	2.5	12	1.3	.00	.04
27	.05	.04	.01	.00	.00	.00	.00	2.9	6.6	1.3	.00	.04
28	.08	.04	.01	.00	.00	.00	.00	3.2	5.4	1.0	.00	.06
29	.08	.03	.01	.00	---	.00	.00	3.8	4.3	1.1	.00	.05
30	.07	.03	.01	.00	---	.00	.01	4.5	4.5	2.0	.00	.04
31	.05	---	.01	.00	---	.00	---	4.8	---	1.7	.00	---
TOTAL	1.89	2.67	.70	.00	.00	.00	.01	38.80	576.1	71.1	7.11	.81
MEAN	.06	.09	.02	.00	.00	.00	.00	1.25	19.2	2.29	.23	.03
MAX	.12	.25	.07	.00	.00	.00	.01	4.8	31	4.3	1.3	.06
MIN	.04	.03	.01	.00	.00	.00	.00	.03	4.3	1.0	.00	.00
AC-FT	3.7	5.3	1.4	.00	.00	.00	.02	77	1140	141	14	1.6

WTR YR 1985 TOTAL 699.19 MEAN 1.92 MAX 31 MIN .00 AC-FT 1390

09238750 MIDDLE FORK FISH CREEK NEAR BUFFALO PASS, CO

LOCATION.--Lat 40°26'54", Long 106°41'30", in NE¼SE¼ sec. 10, T.6N., R.83W., Routt County, Hydrologic Unit 14050001, on right bank, 0.25 mi above Fish Creek Reservoir, and 7.5 mi east of Steamboat Springs.

DRAINAGE AREA.--1.37 mi².

PERIOD OF RECORD.--August 31, 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 9,955 ft, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 1 to Apr. 6, Apr. 18-30. Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 57 ft³/s at 1700 June 9, gage height 3.98 ft, from rating curve extended above 4.0 ft³/s; minimum daily, 0.10 ft³/s, Jan. 1-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.49	.84	.38	.10	.14	.24	.72	2.7	15	7.6	1.7	.28
2	.88	.82	.37	.10	.14	.25	.74	3.5	20	5.8	2.0	.51
3	.59	.80	.36	.10	.14	.27	.76	4.5	25	4.1	1.7	.84
4	1.6	.80	.36	.10	.14	.28	.78	5.6	28	3.7	1.1	.49
5	2.1	.78	.36	.10	.14	.30	.80	6.0	34	3.3	.99	.37
6	1.7	.76	.41	.10	.15	.32	.84	6.2	36	2.9	1.0	.28
7	.87	.74	.36	.10	.15	.34	.88	5.9	40	2.7	.86	.34
8	.71	.72	.31	.10	.15	.35	.92	7.2	45	2.4	.74	.37
9	.65	.72	.28	.10	.15	.37	1.0	8.4	44	2.8	1.1	.27
10	.62	.70	.26	.10	.15	.40	1.0	8.4	38	2.9	.75	.24
11	.58	.70	.23	.10	.15	.42	1.1	8.5	33	2.2	.82	.32
12	.62	.68	.22	.10	.15	.43	1.3	8.4	33	2.0	2.8	.58
13	.69	.68	.20	.10	.15	.44	1.6	6.3	35	2.9	.86	.27
14	.74	.66	.19	.10	.15	.47	1.9	3.2	36	1.7	.72	.23
15	.76	.66	.18	.10	.15	.48	2.5	3.1	35	1.5	.65	.89
16	.79	.66	.17	.10	.15	.49	3.1	4.4	34	1.3	.59	.44
17	.81	.64	.16	.10	.15	.50	3.5	6.4	31	1.3	.55	.26
18	.81	.64	.15	.10	.15	.50	4.0	7.8	25	3.1	.60	.25
19	.81	.62	.15	.10	.15	.52	4.9	7.8	23	3.0	.69	.42
20	.81	.62	.14	.10	.15	.54	3.7	8.9	22	2.0	.53	.76
21	.81	.60	.14	.10	.16	.54	3.0	10	22	1.9	.50	.73
22	.81	.58	.13	.10	.17	.56	2.4	10	16	1.6	.53	.67
23	.81	.56	.13	.10	.17	.58	2.0	12	15	5.6	.43	.95
24	.82	.54	.12	.11	.18	.58	1.7	17	17	3.9	.41	.61
25	.83	.52	.12	.11	.19	.60	1.6	21	22	2.2	.39	.76
26	.84	.50	.12	.11	.20	.62	1.5	24	15	5.6	.36	1.7
27	.86	.46	.12	.12	.22	.62	1.6	25	15	2.8	.33	.94
28	.86	.44	.11	.13	.23	.64	1.9	27	9.4	1.6	.33	.94
29	.86	.42	.11	.14	---	.66	2.2	27	8.2	5.5	.31	.88
30	.87	.38	.11	.14	---	.68	2.5	23	7.5	4.5	.28	.72
31	.88	---	.11	.14	---	.70	---	17	---	2.9	.26	---
TOTAL	26.88	19.24	6.56	3.30	4.47	14.69	56.44	336.2	779.1	97.3	24.88	17.31
MEAN	.87	.64	.21	.11	.16	.47	1.88	10.8	26.0	3.14	.80	.58
MAX	2.1	.84	.41	.14	.23	.70	4.9	27	45	7.6	2.8	1.7
MIN	.49	.38	.11	.10	.14	.24	.72	2.7	7.5	1.3	.26	.23
AC-FT	53	38	13	6.5	8.9	29	112	667	1550	193	49	34

WTR YR 1985 TOTAL 1386.37 MEAN 3.80 MAX 45 MIN .10 AC-FT 2750

09238770 GRANITE CREEK NEAR BUFFALO PASS, CO

LOCATION.--Lat 40°29'35", Long 106°41'31", NE¼NE¼ sec. 15, T.6N., R.83W., Routt County, Hydrologic Unit 14050001, on left bank 0.1 mi upstream from Fish Creek Reservoir, and 7.5 mi east of Steamboat Springs.

DRAINAGE AREA.--2.82 mi².

PERIOD OF RECORD.--August 31, 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 9,875 ft, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 16 to Apr. 29, May 4 to July 24. Records good except for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 90 ft³/s, June 14, from rating curve extended above 18 ft³/s, gage height, 3.90 ft, from highwater marks; minimum daily, 0.18 ft³/s, Jan. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.8	.70	.19	.26	.44	1.3	2.8	27	19	4.4	.99
2	2.3	1.9	.66	.19	.26	.47	1.3	3.3	35	17	4.2	1.8
3	1.7	1.4	.66	.19	.26	.50	1.4	5.5	41	14	4.4	2.4
4	4.2	1.6	.66	.19	.26	.52	1.4	10	50	11	3.3	1.4
5	5.5	1.9	.66	.19	.26	.54	1.5	11	60	8.6	2.9	1.1
6	5.0	1.9	.74	.19	.26	.56	1.5	12	68	6.4	3.0	.88
7	3.3	1.8	.68	.19	.27	.60	1.6	11	74	5.0	2.6	.96
8	1.7	1.5	.60	.19	.27	.64	1.7	12	80	4.4	2.3	1.1
9	1.8	1.4	.52	.19	.27	.68	1.8	15	76	5.0	3.4	.83
10	1.6	1.4	.45	.19	.27	.70	1.9	16	70	5.4	2.4	.79
11	1.6	1.4	.43	.19	.27	.74	2.0	16	62	4.4	3.2	1.2
12	1.5	1.4	.40	.19	.27	.78	2.3	14	62	3.8	7.5	1.7
13	1.6	1.4	.38	.19	.27	.82	2.6	12	66	5.4	2.7	.85
14	2.0	1.3	.35	.19	.27	.84	2.9	6.0	66	3.2	2.3	.76
15	2.0	1.3	.33	.19	.27	.86	3.2	4.6	66	3.0	2.2	1.9
16	1.7	1.3	.31	.19	.27	.90	3.5	8.0	62	3.4	2.1	1.2
17	1.8	1.2	.30	.19	.27	.92	3.8	10	58	4.0	2.0	.76
18	1.8	1.2	.29	.19	.27	.94	4.3	12	50	5.4	2.0	.73
19	1.8	1.1	.28	.19	.27	.96	5.0	13	42	5.0	2.4	1.0
20	1.8	1.1	.27	.19	.28	.98	5.7	14	41	3.5	2.1	1.8
21	1.8	1.1	.26	.18	.29	1.0	4.1	18	40	3.2	1.9	1.7
22	1.8	1.0	.25	.19	.30	1.0	3.0	18	31	2.8	2.0	1.5
23	1.8	1.0	.24	.19	.30	1.0	2.6	22	28	10	1.9	2.2
24	1.9	1.0	.23	.19	.32	1.0	2.1	31	32	6.0	1.9	1.4
25	2.1	.95	.22	.19	.34	1.1	1.8	36	40	4.7	1.9	1.8
26	2.4	.90	.22	.20	.36	1.1	1.7	44	32	10	1.5	3.4
27	2.4	.85	.21	.21	.39	1.1	2.0	47	32	5.5	1.1	1.9
28	2.3	.80	.21	.22	.42	1.2	2.2	49	23	3.9	1.1	2.0
29	2.4	.75	.20	.23	---	1.2	2.4	49	21	6.0	1.0	1.7
30	2.3	.70	.20	.24	---	1.2	2.5	40	19	10	.97	1.3
31	2.0	---	.19	.25	---	1.3	---	32	---	6.6	.92	---
TOTAL	69.1	38.35	12.10	6.09	8.07	26.59	75.1	594.2	1454	205.6	77.59	43.05
MEAN	2.23	1.28	.39	.20	.29	.86	2.50	19.2	48.5	6.63	2.50	1.43
MAX	5.5	1.9	.74	.25	.42	1.3	5.7	49	80	19	7.5	3.4
MIN	1.2	.70	.19	.18	.26	.44	1.3	2.8	19	2.8	.92	.73
AC-FT	137	76	24	12	16	53	149	1180	2880	408	154	85

WTR YR 1985 TOTAL 2609.84 MEAN 7.15 MAX 80 MIN .18 AC-FT 5180

09238800 MIDDLE FORK FISH CREEK TRIBUTARY, BELOW FISH CREEK RESERVOIR, CO

LOCATION.--Lat 40°29'50", Long 106°41'54", in NW¼SE¼ sec. 10, T.6N., R.83W., Routt County, Hydrologic Unit 14050001, on right bank, at Fish Creek Reservoir Spillway, and 7.5 mi east of Steamboat Springs.

DRAINAGE AREA.--4.78 mi².

PERIOD OF RECORD.--August 31, 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 9,855 ft, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 20 to July 1. Records good except for estimated daily discharges, which are poor. Flow regulated by Fish Creek Reservoir, capacity, 1,840 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 130 ft³/s, June 7, gage height, 1.75 ft, from floodmarks, from rating curve extended above 26 ft³/s, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	.61	.14	.00	.00	.00	.00	.56	50	25	7.1	.00
2	.21	.57	.13	.00	.00	.00	.00	.66	60	24	4.9	.00
3	.21	.50	.12	.00	.00	.00	.00	.78	70	22	3.8	.00
4	.56	.51	.06	.00	.00	.00	.00	.90	88	19	2.4	.00
5	1.9	.56	.01	.00	.00	.00	.00	1.0	100	17	1.2	.00
6	3.0	.55	.00	.00	.00	.00	.00	1.2	110	15	.55	.00
7	2.8	.44	.00	.00	.00	.00	.00	1.3	120	14	.23	.00
8	1.9	.36	.00	.00	.00	.00	.00	1.5	110	12	.13	.00
9	1.4	.33	.00	.00	.00	.00	.00	1.8	100	11	.12	.00
10	.99	.98	.00	.00	.00	.00	.00	2.0	94	13	.10	.00
11	.67	1.4	.00	.00	.00	.00	.00	2.3	90	12	.07	.00
12	.50	1.2	.00	.00	.00	.00	.00	2.7	96	9.5	.13	.00
13	.42	.81	.00	.00	.00	.00	.00	3.1	98	10	.13	.00
14	.52	.70	.00	.00	.00	.00	.00	3.6	96	8.3	.11	.00
15	.47	.94	.00	.00	.00	.00	.00	4.2	92	6.3	.09	.00
16	.49	1.0	.00	.00	.00	.00	.00	4.8	84	4.8	.00	.00
17	.55	.81	.00	.00	.00	.00	.00	5.4	70	3.8	.00	.00
18	1.0	.63	.00	.00	.00	.00	.00	6.4	64	5.5	.00	.00
19	1.2	.57	.00	.00	.00	.00	.01	7.6	62	8.6	.00	.00
20	1.3	.39	.00	.00	.00	.00	.06	8.4	58	7.3	.00	.00
21	1.3	.35	.00	.00	.00	.00	.12	10	47	6.0	.00	.00
22	1.1	.32	.00	.00	.00	.00	.16	11	42	4.9	.00	.00
23	.91	.30	.00	.00	.00	.00	.19	12	45	8.5	.00	.00
24	.79	.28	.00	.00	.00	.00	.23	14	58	17	.00	.00
25	.70	.25	.00	.00	.00	.00	.26	17	50	11	.00	.00
26	.61	.23	.00	.00	.00	.00	.29	20	45	9.4	.00	.00
27	1.0	.21	.00	.00	.00	.00	.34	22	38	11	.00	.00
28	1.0	.19	.00	.00	.00	.00	.39	26	31	6.9	.00	.00
29	.83	.17	.00	.00	---	.00	.46	30	28	7.9	.00	.00
30	.70	.16	.00	.00	---	.00	.50	34	27	14	.00	.00
31	.61	---	.00	.00	---	.00	---	40	---	12	.00	---
TOTAL	29.79	16.32	.46	.00	.00	.00	3.01	296.20	2123	356.7	21.06	.00
MEAN	.96	.54	.01	.00	.00	.00	.10	9.55	70.8	11.5	.68	.00
MAX	3.0	1.4	.14	.00	.00	.00	.50	40	120	25	7.1	.00
MIN	.15	.16	.00	.00	.00	.00	.00	.56	27	3.8	.00	.00
AC-FT	59	32	.9	.00	.00	.00	6.0	588	4210	708	42	.00

WTR YR 1985 TOTAL 2846.54 MEAN 7.80 MAX 120 MIN .00 AC-FT 5650

09238900 FISH CREEK AT UPPER STATION, NEAR STEAMBOAT SPRINGS, CO

LOCATION.--Lat 40°28'30", long 106°47'11", in SE¼SE¼ sec.15, T.6 N., R.84 W., Routt County, Hydrologic Unit 14050001, on right bank 2.6 mi upstream from mouth and 2.5 mi east of Steamboat Springs.

DRAINAGE AREA.--24.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1966 to September 1972, May 1982 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 7,150 ft, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Diversions above station by Mount Werner Recreation district and City of Steamboat Springs for domestic use began in 1972 (see table below for figures of diversion). Natural flow of stream affected by storage in Fish Creek and Long Lake Reservoir.

AVERAGE DISCHARGE.--6 years (water years 1967-72), 69.6 ft³/s; 50,430 acre-ft/yr, unadjusted for diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 1,110 ft³/s, June 20, 1968, gage height, 3.14 ft; minimum daily, 0.01 ft³/s, Aug. 7, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 1,040 ft³/s at 1900 June 8, gage height, 3.08 ft; minimum daily, 2.2 ft³/s, Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	13	11	6.8	9.9	4.8	10	98	266	101	28	2.4
2	13	14	11	7.2	6.6	5.0	11	127	326	94	23	4.5
3	9.7	14	11	7.4	3.5	4.3	13	150	392	83	20	8.3
4	15	15	9.9	7.5	5.8	4.7	14	177	457	79	16	6.2
5	24	15	12	7.1	5.2	4.9	12	199	517	73	17	5.1
6	20	13	9.3	6.4	5.0	4.9	13	193	575	65	16	4.4
7	15	13	6.8	5.9	5.1	4.6	15	178	699	60	12	4.2
8	13	13	7.0	6.1	5.0	4.7	20	212	785	53	8.8	4.9
9	14	12	8.2	6.2	3.0	5.0	28	229	782	51	7.0	3.7
10	13	16	12	6.2	4.5	5.0	31	210	651	52	6.8	2.9
11	9.9	18	10	6.2	5.1	5.3	39	211	515	44	4.3	4.1
12	9.4	16	11	8.7	5.2	5.2	46	212	480	43	17	9.8
13	12	14	11	6.9	5.5	5.3	52	221	504	55	7.9	4.8
14	14	14	8.1	6.2	5.3	5.7	61	165	531	38	6.0	4.2
15	11	16	6.8	5.6	5.0	5.5	75	131	528	31	4.9	7.9
16	11	15	9.9	7.1	5.0	6.0	82	129	512	24	4.2	6.4
17	12	14	9.2	6.7	4.7	7.3	87	152	480	20	4.0	5.0
18	12	14	8.4	5.4	3.7	7.9	100	186	395	32	3.8	4.8
19	15	12	7.7	5.4	4.4	8.8	106	194	329	41	5.1	6.0
20	15	12	8.4	5.8	4.6	10	77	211	302	33	4.5	6.0
21	15	12	7.1	6.4	5.1	12	61	228	310	31	3.4	12
22	13	11	7.5	6.5	5.2	11	50	234	235	26	3.6	8.0
23	13	11	7.7	6.5	4.5	10	45	256	192	47	3.5	8.1
24	14	12	7.4	5.9	3.6	11	43	335	209	52	3.0	7.0
25	12	11	8.1	6.2	4.6	13	40	381	327	36	2.9	6.2
26	13	9.8	7.1	5.6	4.6	16	37	413	212	41	2.9	9.0
27	12	10	7.0	5.6	4.5	13	38	429	186	37	2.6	9.2
28	18	10	7.1	5.9	4.6	13	51	459	143	26	2.7	11
29	14	9.8	6.9	6.1	---	12	68	445	122	42	2.6	8.3
30	14	11	6.7	6.1	---	11	71	390	111	55	2.4	6.5
31	14	---	5.7	5.1	---	11	---	314	---	40	2.2	---
TOTAL	418.0	390.6	267.0	196.7	138.8	247.9	1396	7469	12073	1505	248.1	190.9
MEAN	13.5	13.0	8.61	6.35	4.96	8.00	46.5	241	402	48.5	8.00	6.36
MAX	24	18	12	8.7	9.9	16	106	459	785	101	28	12
MIN	8.0	9.8	5.7	5.1	3.0	4.3	10	98	111	20	2.2	2.4
AC-FT	829	775	530	390	275	492	2770	14810	23950	2990	492	379
a	76	76	133	193	191	189	141	167	279	292	283	171

CAL YR 1984	TOTAL	35972.8	MEAN	98.3	MAX	729	MIN	2.7	AC-FT	71350
WTR YR 1985	TOTAL	24541.0	MEAN	67.2	MAX	785	MIN	2.2	AC-FT	48680

a - DIVERSIONS, IN ACRE-FEET, BY MOUNT WERNER WATER & SANITATION DISTRICT AND CITY OF STEAMBOAT SPRINGS.

09238900 FISH CREEK AT UPPER STATION NEAR STEAMBOAT SPRINGS, CO--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
MAY									
08...	10:30	189	22	7.2	3.0	10.4	13	4.1	0.6
JUL									
16...	12:15	24	27	7.5	--	--	10	3.3	0.53
AUG									
09...	13:00	9.8	27	7.7	9.5	--	11	3.5	0.6

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAY									
08...	0.9	0.1	0.6	9.0	5.4	0.3	<0.1	5.6	23
JUL									
16...	1.1	0.2	0.7	9.0	6.3	<0.2	<0.1	4.9	--
AUG									
09...	1.1	0.1	0.8	10	5.2	0.2	<0.1	5.5	23

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
MAY									
08...	0.03	12	<0.01	<0.10	0.04	0.16	0.2	0.01	<0.01
JUL									
16...	--	--	<0.01	<0.10	0.02	0.18	0.2	<0.01	<0.01
AUG									
09...	0.03	0.61	<0.01	0.10	0.03	0.37	0.4	<0.01	<0.01

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ANTI-MONY, DIS-SOLVED (UG/L AS SB)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)
MAY											
08...	10:30	70	<1	<1	14	2	<10	<1	<1	<1	3

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAY											
08...	66	8	<4	5	<0.1	<1	6	<1	<1	16	13

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAY				
08...	10:30	189	3	1.5
JUL				
16...	12:15	24	2	0.13
AUG				
09...	13:00	9.8	0	--

09239500 YAMPA RIVER AT STEAMBOAT SPRINGS, CO

LOCATION.--Lat 40°29'01", long 106°49'54", in NW¼NE¼ sec.17, T.6 N., R.84W., Routt County, Hydrologic Unit 14050001, on right bank 30 ft downstream from Fifth Street Bridge in Steamboat Springs and 0.6 mi upstream from Soda Creek.

DRAINAGE AREA.--604 mi².

PERIOD OF RECORD.--May 1904 to October 1906, October 1909 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 764: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,695.47 ft above National Geodetic Vertical Datum of 1929. Prior to May 8, 1905, nonrecording gage at bridge 0.2 mi upstream at datum 4.16 ft, higher. May 8, 1905, to Oct. 31, 1906, nonrecording gage on bridge 30 ft upstream at datum 0.44 ft, higher. Mar. 8, 1910, to Sept. 11, 1934, water-stage recorder at present site at datum 0.44 ft, higher.

REMARKS.--Estimated daily discharges: Jan. 2-21, Feb. 1 and 2. Records good. Natural flow of stream affected by two diversions for irrigation to Egeria Creek inColorado River basin, one diversion for irrigation from Trout Creek drainage to Oak Creek drainage, irrigation of about 19,700 acres above station, and by storage reservoirs. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--78 years, 473 ft³/s; 342,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,820 ft³/s June 14, 1921, gage height, 7.08 ft, present datum, from rating curve extended above 4,800 ft³/s; maximum gage height, 7.12 ft, June 25, 1984; minimum daily, 4.0 ft³/s, Sept. 8, 1934, Sept. 10-13, 1944.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and, maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 29	0100	3,480	5.53	June 8	2200	*4,140	*6.04

Minimum daily discharge, 92 ft³/s, Aug. 27

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	177	255	150	132	135	132	230	1330	2330	602	401	98
2	197	247	151	130	135	136	231	1510	2270	551	343	108
3	210	256	163	125	141	123	260	1700	2370	506	323	123
4	223	248	153	120	139	115	279	1920	2410	470	294	137
5	311	244	155	115	140	120	243	2200	2640	409	255	138
6	318	243	165	120	140	122	241	2360	2790	364	232	147
7	248	242	177	125	140	122	322	2170	3050	319	206	132
8	207	223	187	130	139	125	525	2170	3420	298	189	127
9	191	179	165	130	126	129	803	2300	3340	293	178	136
10	185	173	150	130	123	132	1030	2300	2990	290	169	155
11	183	180	147	130	123	136	1120	2450	2430	284	155	154
12	182	169	143	130	124	142	1170	2190	2100	276	164	119
13	187	166	144	125	124	142	1270	2090	1990	314	182	112
14	200	175	141	125	122	146	1200	1780	1920	337	169	105
15	194	164	155	120	122	155	1290	1600	1810	305	154	113
16	188	162	155	130	126	164	1380	1540	1730	274	142	123
17	192	163	146	130	125	173	1440	1590	1710	267	133	112
18	207	156	148	130	122	186	1470	1780	1550	286	127	109
19	208	153	145	130	124	198	1600	1910	1370	375	130	107
20	215	153	130	130	126	218	1470	1990	1270	500	135	108
21	219	151	132	135	127	233	1180	1990	1240	516	129	130
22	221	152	133	136	127	234	973	2080	1150	503	125	138
23	239	150	137	142	129	221	892	2130	1010	495	121	151
24	238	151	140	150	125	225	969	2290	922	614	115	154
25	222	151	139	146	129	305	974	2600	1050	549	108	149
26	216	145	157	139	125	342	963	3020	1180	464	102	150
27	245	140	148	138	127	300	914	3090	1130	475	92	156
28	263	149	136	138	132	274	981	3190	1010	409	94	172
29	264	149	131	137	---	262	1150	3270	821	394	97	195
30	266	150	133	136	---	242	1220	3120	688	519	96	178
31	262	---	137	136	---	245	---	2620	---	492	96	---
TOTAL	6878	5439	4593	4070	3617	5799	27790	68280	55691	12750	5256	4036
MEAN	222	181	148	131	129	187	926	2203	1856	411	170	135
MAX	318	256	187	150	141	342	1600	3270	3420	614	401	195
MIN	177	140	130	115	122	115	230	1330	688	267	92	98
AC-FT	13640	10790	9110	8070	7170	11500	55120	135400	110500	25290	10430	8010

CAL YR 1984	TOTAL	302250	MEAN	826	MAX	5550	MIN	117	AC-FT	599500
WTR YR 1985	TOTAL	204199	MEAN	559	MAX	3420	MIN	92	AC-FT	405000

09241000 ELK RIVER AT CLARK, CO

LOCATION.--Lat 40°43'03", long 106°54'55", in NW¼NW¼ sec.27, T.9 N., R.85 W., Routt County, Hydrologic Unit 14050001, on left bank 30 ft downstream from bridge on State Highway 129, 0.8 mi north of Clark, and 2.0 mi upstream from Cottonwood Gulch.

DRAINAGE AREA.--206 mi².

PERIOD OF RECORD.--May 1910 to September 1922 (published as "near Clark"), April 1930 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1733: 1956.

GAGE.--Water-stage recorder. Datum of gage is 7,267.75 ft, (State Highway Department bench mark). May 1910 to September 1922, nonrecording gage at site 30 ft upstream at datum 0.15 ft, lower. Apr. 23, 1930, to Sept. 27, 1934, water-stage recorder at present site at datum 0.15 ft, lower.

REMARKS.--Estimated daily discharges: Nov. 20 to Apr. 7. Records good except for estimated daily discharges, which are poor. Diversions above station for irrigation of about 230 acres above and about 460 acres below station. Natural flow of stream affected by storage in Lester Creek Reservoir (known also as Pearl Lake), capacity, 5,660 acre-ft, since 1963, and Steamboat Lake, capaoity, 23,060 acre-ft, since 1968. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--67 years, 339 ft³/s; 245,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,910 ft³/s, May 23, 1984, gage height, 6.12 ft; minimum daily determined, 22 ft³/s, Dec. 12, 1963, but a lesser discharge may have occurred during periods of no gage-height record prior to 1939.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,900 ft³/s, and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 10	1900	2,000	4.44	June 8	2300	*3,180	*5.36
May 28	2200	2,300	4.68				

Minimum daily discharge, 40 ft³/s, Feb. 20 to Mar. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	104	72	100	60	40	226	1030	1200	527	226	72
2	126	98	66	100	60	40	226	1210	1180	501	221	75
3	118	107	70	98	60	42	225	1380	1220	491	211	97
4	115	95	72	100	60	45	223	1500	1290	483	194	86
5	124	92	74	100	60	47	223	1630	1330	463	185	78
6	131	104	74	98	60	50	223	1500	1350	437	179	72
7	123	97	76	98	58	56	223	1410	1710	398	170	70
8	113	97	78	98	56	60	224	1580	2280	381	161	75
9	108	93	80	96	54	64	262	1640	2410	377	167	71
10	104	104	80	96	50	66	258	1720	2080	343	156	68
11	106	109	80	96	45	68	258	1620	1630	329	149	67
12	104	100	82	96	45	68	329	1300	1410	358	181	86
13	108	102	82	96	42	70	411	1120	1440	343	148	72
14	111	105	84	96	42	70	500	1000	1470	298	135	67
15	100	92	86	94	42	70	675	1030	1530	266	126	64
16	97	100	88	94	42	70	817	1110	1570	251	119	65
17	96	106	90	94	42	70	893	1160	1520	233	114	62
18	111	87	92	94	42	72	1090	1150	1370	390	112	62
19	110	89	92	94	42	74	1240	1140	1280	715	115	73
20	112	90	92	90	40	76	1100	1170	1220	560	107	68
21	111	90	90	86	40	78	1060	1280	1210	409	101	70
22	103	80	88	84	40	80	987	1310	1090	374	99	73
23	108	80	86	82	40	80	964	1340	968	364	94	77
24	108	80	88	82	40	80	953	1500	892	408	89	72
25	97	80	94	80	40	82	789	1700	1120	322	85	71
26	105	80	94	74	40	84	574	1860	1000	302	83	71
27	106	80	92	70	40	86	569	1930	738	288	82	79
28	103	78	92	66	40	88	708	2000	631	251	83	92
29	108	76	94	62	---	90	832	1760	583	301	81	84
30	105	74	96	60	---	100	890	1590	565	273	77	68
31	106	---	98	60	---	105	---	1320	---	248	73	---
TOTAL	3398	2769	2622	2734	1322	2171	17952	43990	39287	11684	4123	2207
MEAN	110	92.3	84.6	88.2	47.2	70.0	598	1419	1310	377	133	73.6
MAX	131	109	98	100	60	105	1240	2000	2410	715	226	97
MIN	96	74	66	60	40	40	223	1000	565	233	73	62
AC-FT	6740	5490	5200	5420	2620	4310	35610	87250	77930	23180	8180	4380

CAL YR 1984 TOTAL 183267 MEAN 501 MAX 4090 MIN 53 AC-FT 363500
WTR YR 1985 TOTAL 134259 MEAN 368 MAX 2410 MIN 40 AC-FT 266300

09243700 MIDDLE CREEK NEAR OAK CREEK, CO

LOCATION.--Lat 40°23'08", long 106°59'33", in SW¼SW¼ sec.13, T.5 N., R.86 W., Routt County, Hydrologic Unit 1450001, on left bank 1.1 mi above mouth of Foidel Creek and 13.5 mi northwest of Oak Creek.

DRAINAGE AREA.--23.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to September 1981, April 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,720 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 1 to Mar. 18. Records good except those periods for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--9 years (water years 1976-81, 83-85), 5.06 ft³/s; 3,670 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 329 ft³/s, May 14, 1984, gage height, 4.08 ft, from rating curve extended above 77 ft³/s; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15 ft³/s, and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 3	2330	131	3.47	No other peak greater than base discharge.			

Minimum daily discharge, 0.09 ft³/s, Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.7	1.7	1.8	1.6	3.4	4.1	92	16	4.3	2.7	.16
2	.99	1.6	1.8	1.9	1.6	3.6	4.1	99	15	4.2	2.5	.77
3	.97	1.8	1.8	1.9	1.7	3.7	3.8	119	14	4.1	2.5	2.5
4	1.0	1.8	1.8	1.8	1.8	3.3	7.1	125	13	3.8	2.3	2.5
5	1.2	1.8	1.8	1.9	1.8	3.6	4.8	122	13	3.6	2.2	2.5
6	1.1	1.6	1.8	1.9	1.7	3.3	4.2	122	12	3.4	2.1	1.8
7	1.0	1.6	1.8	1.9	1.7	3.2	6.5	109	12	3.4	1.9	1.6
8	.99	1.6	1.8	1.9	1.7	3.0	11	94	11	3.3	1.4	1.8
9	.99	1.9	1.8	1.9	1.6	3.2	12	77	10	3.4	1.2	1.8
10	1.1	2.0	1.8	1.9	1.7	3.2	21	69	9.6	3.6	1.1	1.6
11	1.1	1.9	1.8	1.9	1.7	3.0	22	73	8.9	3.3	.98	1.8
12	1.1	1.8	1.8	1.9	1.6	3.2	24	69	8.8	3.3	1.1	2.1
13	1.4	1.9	1.8	1.8	1.5	4.5	32	60	8.7	3.4	.94	1.7
14	1.6	2.2	1.8	1.8	1.7	4.4	29	50	8.2	3.3	.74	.94
15	1.5	2.2	1.8	1.7	1.8	4.0	30	44	7.9	3.3	.58	.75
16	1.4	2.5	1.8	1.8	1.9	3.6	35	41	8.1	3.1	.54	.67
17	1.4	2.6	1.8	1.8	2.0	4.1	42	38	7.8	2.6	.51	.54
18	1.5	2.6	1.8	1.8	2.1	4.4	53	34	7.2	3.1	.42	.47
19	1.5	3.0	1.8	1.8	2.2	5.6	66	32	6.9	4.7	.42	.62
20	1.5	3.0	1.8	1.8	2.7	7.7	59	29	6.5	4.1	.33	.63
21	1.5	2.3	1.8	1.9	3.5	10	56	27	6.8	3.9	.22	.74
22	1.4	1.7	1.8	2.0	4.0	10	54	26	6.9	3.6	.19	.86
23	1.5	1.7	1.9	2.0	4.3	9.3	52	26	6.5	3.5	.16	1.1
24	1.4	2.0	1.8	1.9	3.8	8.7	55	23	6.0	3.3	.16	.81
25	1.4	2.1	1.8	1.9	3.0	7.5	56	22	6.1	2.9	.14	.75
26	1.4	1.7	1.9	1.9	2.8	11	57	22	6.1	2.3	.14	.74
27	1.6	1.6	1.9	1.9	2.8	6.9	57	20	5.7	2.2	.12	.70
28	1.6	1.6	2.0	1.9	2.9	4.8	70	19	5.0	2.2	.13	1.0
29	1.6	1.8	2.1	1.9	---	4.6	81	18	4.5	2.6	.15	1.3
30	1.7	1.8	2.0	1.9	---	4.3	81	17	4.3	3.0	.14	1.1
31	1.7	---	1.9	1.7	---	4.2	---	16	---	2.9	.09	---
TOTAL	41.24	59.4	56.8	57.8	63.2	159.3	1089.6	1734	262.5	103.7	28.10	36.35
MEAN	1.33	1.98	1.83	1.86	2.26	5.14	36.3	55.9	8.75	3.35	.91	1.21
MAX	1.7	3.0	2.1	2.0	4.3	11	81	125	16	4.7	2.7	2.5
MIN	.97	1.6	1.7	1.7	1.5	3.0	3.8	16	4.3	2.2	.09	.16
AC-FT	82	118	113	115	125	316	2160	3440	521	206	56	72

CAL YR 1984	TOTAL	4925.34	MEAN	13.5	MAX	297	MIN	.74	AC-FT	9770
WTR YR 1985	TOTAL	3691.99	MEAN	10.1	MAX	125	MIN	.09	AC-FT	7320

09243700 MIDDLE CREEK NEAR OAK CREEK, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1976 to September 1981.
WATER TEMPERATURES: April 1976 to September 1981.

INSTRUMENTATION.--Water-quality monitor April 1976 to September 1981.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,880 microsiemens May 29, 1981; minimum, 117 microsiemens Aug. 10, 1978.
WATER TEMPERATURES: Maximum, 31.5°C July 31, 1976; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
APR											
22...	13:15	55	440	8.3	6.0	9.5	210	50	21	12	0.4
MAY											
01...	13:00	94	431	8.2	10.0	9.2	220	51	22	11	0.3
16...	11:00	42	519	8.5	7.5	9.0	270	65	26	13	0.4
JUN											
14...	11:00	8.2	630	8.9	15.0	--	330	78	34	20	0.5
JUL											
18...	14:30	2.8	670	8.6	22.0	9.8	310	70	34	27	0.7
AUG											
01...	10:30	2.5	765	8.3	16.5	8.2	380	87	39	32	0.7
28...	10:15	0.15	848	8.1	15.5	8.4	400	89	43	42	0.9
SEP											
27...	10:45	0.75	760	8.4	6.0	9.7	380	86	40	41	0.9

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
APR										
22...	2.3	139	95	2.9	0.2	9.3	280	0.38	41	<0.01
MAY										
01...	2.4	132	90	3.3	0.2	9.5	270	0.37	68	<0.01
16...	2.2	166	99	3.6	0.2	10	320	0.43	36	<0.01
JUN										
14...	2.5	174	150	5.2	0.2	5.7	400	0.54	8.9	<0.01
JUL										
18...	4.0	190	170	6.2	0.2	5.4	430	0.59	3.3	<0.01
AUG										
01...	3.4	230	190	6.1	0.2	4.8	500	0.68	3.4	<0.01
28...	3.4	246	220	7.6	0.2	4.3	560	0.76	0.23	<0.01
SEP										
27...	3.2	250	190	6.7	0.2	5.8	520	0.71	1.1	0.01

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)
APR										
22...	0.68	0.05	0.25	0.3	0.06	0.03	30	11000	--	27
MAY										
01...	0.60	0.06	0.44	0.5	0.02	0.02	30	32000	--	13
16...	0.54	0.05	--	<0.2	0.04	0.02	30	4300	--	17
JUN										
14...	<0.10	0.06	0.64	0.7	0.02	<0.01	30	300	--	51
JUL										
18...	<0.10	0.02	0.38	0.4	0.02	0.01	20	430	--	21
AUG										
01...	<0.10	0.05	0.55	0.6	0.01	<0.01	30	1100	1100	21
28...	<0.10	0.04	0.46	0.5	0.01	0.02	60	170	140	27
SEP										
27...	<0.10	0.11	0.29	0.4	0.02	<0.01	50	210	160	52

9243700 MIDDLE CREEK NEAR OAK CREEK, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)
MAR 18...	14:00	4.4	724	1.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
APR 22...	13:15	55	2140	320
MAY 01...	13:00	94	3390	862
16...	11:00	42	829	93
JUN 14...	11:00	8.2	157	3.5
JUL 18...	14:30	2.8	102	0.77
AUG 01...	10:30	2.5	63	0.43
28...	10:15	0.15	28	0.01
SEP 27...	10:45	0.75	38	0.08

09243800 FOIDEL CREEK NEAR OAK CREEK, CO

LOCATION.--Lat 40°20'45", long 107°05'04", in NW¼SW¼ sec.31, T.5 N., R.86 W., Routt County, Hydrologic Unit 14050001, on right bank 2.3 mi downstream from Reservoir No. 1, 6.9 mi upstream from mouth, and 8.7 mi northwest of Oak Creek.

DRAINAGE AREA.--8.61 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to October 1981, April 1982 to September 1983, October 1984 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,880 ft, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1 to Mar. 8, Sept. 24-30. Records fair except those periods for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--8 years (water years 1976-81, 1983, 1985), 1.15 ft³/s; 832 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55 ft³/s Apr. 21, 1980, gage height, 3.38 ft; no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 42 ft³/s at 1900 April 9, gage height, 2.97 ft; minimum daily 0.12 ft³/s, Sept. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.89	1.3	.88	.86	.79	1.7	3.8	17	7.5	1.8	1.3	.57
2	.92	1.2	.70	.89	.78	1.9	4.1	19	7.2	1.7	1.6	.78
3	.90	1.2	.84	.86	.80	2.1	5.5	22	6.7	1.7	1.6	1.1
4	.86	1.2	.86	.84	.82	2.6	7.2	23	6.2	1.6	1.5	1.3
5	.92	1.1	.88	.84	.82	3.0	4.9	22	5.8	1.6	1.5	1.6
6	.86	1.0	.88	.84	.82	2.5	6.2	21	5.3	1.6	1.8	1.0
7	.79	.96	.88	.85	.82	1.8	9.1	20	4.9	1.6	2.7	.74
8	.74	1.0	.88	.89	.80	1.9	11	18	4.5	1.5	2.4	.68
9	.70	1.1	.88	.90	.78	3.1	21	16	4.1	1.5	2.4	.57
10	.72	1.2	.88	.90	.80	4.4	24	15	3.8	1.5	2.3	.45
11	.76	1.2	.88	.90	.78	3.4	21	15	3.4	1.5	2.1	.45
12	.76	1.2	.88	.88	.76	3.3	23	15	3.1	1.4	2.3	.48
13	.78	1.3	.88	.82	.73	3.3	19	14	2.8	1.5	2.0	.30
14	.86	1.5	.88	.80	.78	3.2	17	13	2.5	1.6	1.7	.23
15	.94	1.7	.88	.82	.88	3.9	15	12	2.4	1.4	1.6	.23
16	.96	1.6	.88	.84	.94	4.6	13	11	2.4	1.4	1.7	.26
17	1.0	1.6	.88	.85	.96	5.9	13	11	2.3	1.4	1.5	.17
18	1.1	1.6	.90	.85	1.0	5.7	12	11	2.3	2.2	1.5	.12
19	1.1	1.2	.90	.86	1.3	5.5	14	11	2.2	3.6	1.4	.17
20	1.2	.90	.89	.86	1.9	5.8	15	9.6	2.2	3.2	1.2	.18
21	1.2	.89	.88	.89	2.9	6.8	16	9.0	2.1	2.8	.97	.26
22	1.2	.94	.84	.92	2.7	6.9	17	8.7	2.1	2.4	.90	.54
23	1.2	.96	.84	.94	2.2	4.7	19	8.3	2.0	2.1	.75	.41
24	1.2	.96	.83	.94	1.6	4.8	18	8.1	2.0	2.2	.68	.45
25	1.1	.95	.83	.89	1.4	5.5	19	8.0	2.0	2.3	.71	.54
26	1.2	.96	.84	.90	1.4	6.6	19	8.1	2.0	2.1	.97	.60
27	1.2	1.0	.86	.92	1.3	5.2	19	7.9	1.9	2.0	.80	.70
28	1.2	.98	.94	.88	1.4	4.7	19	7.7	1.8	1.8	.73	.72
29	1.2	.90	.97	.86	---	4.3	19	7.6	1.8	1.6	.66	.74
30	1.2	.85	.93	.85	---	4.0	19	7.5	1.8	1.6	.55	.76
31	1.3	---	.90	.86	---	3.9	---	7.4	---	1.6	.47	---
TOTAL	30.96	34.45	27.07	27.00	32.96	127.0	442.8	403.9	101.1	57.8	44.29	17.10
MEAN	1.00	1.15	.87	.87	1.18	4.10	14.8	13.0	3.37	1.86	1.43	.57
MAX	1.3	1.7	.97	.94	2.9	6.9	24	23	7.5	3.6	2.7	1.6
MIN	.70	.85	.70	.80	.73	1.7	3.8	7.4	1.8	1.4	.47	.12
AC-FT	61	68	54	54	65	252	878	801	201	115	88	34

WTR YR 1985 TOTAL 1346.43 MEAN 3.69 MAX 24 MIN .12 AC-FT 2670

09243800 FOIDEL CREEK NEAR OAK CREEK, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1975 to September 1983, October 1984 to September 1985.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May 1976 to September 1981, April 1982 to September 1983.
WATER TEMPERATURES: May 1976 to September 1981, April 1982 to September 1983.

INSTRUMENTATION.--Water-quality monitor May 1976 to September 1981, April 1982 to September 1983.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,880 microsiemens Jan. 23, 1983; minimum, 200 microsiemens Apr. 21, 22, 1980.
WATER TEMPERATURES: Maximum, 31.5°C July 30, 1983; minimum, 0.0°C during winter period when flowing each year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
FEB											
12...	11:20	0.73	2150	8.2	0.0	--	--	1400	300	150	51
APR											
22...	11:00	14	1330	8.3	8.0	9.8	--	760	160	87	34
MAY											
01...	10:45	18	1390	8.3	11.0	10.8	--	770	170	84	32
JUN											
14...	10:00	2.6	1870	8.4	17.0	7.4	3.1	1200	230	140	45
JUL											
18...	12:30	2.1	2010	7.9	21.0	6.9	1.5	1200	220	150	55
AUG											
01...	13:30	1.4	2140	8.0	20.5	8.4	1.7	1100	200	140	130
28...	12:30	0.74	2370	8.2	19.0	8.5	0.81	1400	280	180	60
SEP											
27...	12:15	0.7	2300	8.2	8.0	10.0	0.68	1500	280	200	54

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
FEB											
12...	0.6	5.0	298	1100	15	0.1	10	1800	2.5	3.6	0.01
APR											
22...	0.6	4.2	271	450	7.9	0.1	7.4	910	1.2	35	0.02
MAY											
01...	0.5	4.7	210	490	6.4	0.1	7.3	920	1.3	45	0.02
JUN											
14...	0.6	5.1	217	890	9.2	0.2	5.9	1500	2.0	10	0.04
JUL											
18...	0.7	6.2	246	1100	3.7	0.1	3.3	1700	2.3	9.6	0.04
AUG											
01...	2	6.0	227	1100	20	0.2	4.0	1700	2.4	6.6	0.06
28...	0.7	6.3	224	1300	19	0.1	2.0	2000	2.7	4.0	0.01
SEP											
27...	0.6	5.9	236	1200	19	0.1	4.6	1900	2.6	4.1	0.01

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)
FEB										
12...	1.30	0.40	0.7	1.1	0.02	0.02	90	300	--	50
APR										
22...	2.70	0.13	0.57	0.7	0.04	<0.01	60	1300	--	19
MAY										
01...	2.80	0.10	0.9	1.0	<0.01	<0.01	50	720	--	13
JUN										
14...	2.40	0.18	0.52	0.7	0.01	<0.01	90	790	770	18
JUL										
18...	0.87	0.15	0.45	0.6	<0.01	<0.01	100	540	480	60
AUG										
01...	0.84	0.16	0.74	0.9	0.01	<0.01	70	440	400	40
28...	0.31	0.10	0.4	0.5	0.01	<0.01	130	390	340	50
SEP										
27...	0.18	0.16	0.34	0.5	0.01	<0.01	120	1000	930	70

09243800 FOIDEL CREEK NEAR OAK CREEK, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)
MAR					MAY				
18...	11:10	3.9	1560	1.0	16...	13:15	12	1480	13.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
APR					AUG				
22...	11:00	14	86	3.3	01...	13:30	1.4	76	0.29
MAY					28...	12:30	0.74	85	0.17
01...	10:45	18	93	4.5	SEP				
JUN					27...	12:15	0.7	336	0.73
14...	10:00	2.6	252	1.8					
JUL									
18...	12:30	2.1	153	0.87					

09243900 FOIDEL CREEK AT MOUTH, NEAR OAK CREEK, CO

LOCATION.--Lat 40°23'25", long 106°59'39", in SE¼SE¼ sec.14, T.5 N., R.86 W., Routt County, Hydrologic Unit 14050001, on left bank 0.9 mi upstream from mouth and 13.6 mi northwest of Oak Creek.

DRAINAGE AREA.--17.5 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to September 1981, June 1982 to current year.

REVISED RECORDS.--WDR CO-78-3: 1976 (M), 1976.

GAGE.--Water-stage recorder. Elevation of gage is 6,730 ft, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 1-16, Apr. 23 to May 1. Records good.

AVERAGE DISCHARGE.--9 years (water years 1976-81, 83-85), 3.23 ft^3/s; 2,340 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90 ft^3/s, Apr. 22, 1980, gage height, 5.18 ft; no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 87 ft^3/s at 1830 Apr. 9, gage height, 5.07 ft; minimum daily, 1.1 ft^3/s, Nov. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.8	1.7	1.8	1.6	3.2	8.6	32	7.5	4.3	2.3	1.2
2	1.8	2.6	1.4	1.9	1.6	3.7	8.5	31	6.8	4.3	2.4	1.2
3	2.1	2.7	1.9	1.9	1.7	3.9	13	33	6.5	4.3	2.4	1.3
4	1.9	2.7	1.9	1.8	1.7	3.2	18	35	6.1	4.5	2.3	1.5
5	2.1	2.5	1.9	1.8	1.7	3.6	12	36	5.8	4.4	2.3	1.6
6	2.0	2.2	1.9	1.8	1.7	3.3	15	34	5.6	3.8	2.2	1.6
7	1.8	2.1	1.9	1.8	1.7	3.2	23	34	5.5	3.7	2.2	1.6
8	1.7	2.2	1.9	1.9	1.7	2.9	32	28	5.5	3.5	2.1	1.6
9	1.6	2.3	1.9	1.9	1.6	3.1	61	26	5.4	3.7	2.0	1.6
10	1.6	2.6	1.9	1.9	1.7	3.2	61	24	5.3	3.7	1.9	1.5
11	1.7	2.6	1.9	1.9	1.6	3.3	55	25	5.3	3.6	1.9	1.5
12	1.7	2.6	1.9	1.9	1.6	2.8	51	27	5.1	3.6	1.8	1.5
13	1.7	2.7	1.9	1.7	1.5	3.8	44	26	5.1	3.6	1.8	1.4
14	1.8	3.1	1.9	1.6	1.6	9.3	36	23	5.1	3.5	1.8	1.4
15	2.1	3.6	1.9	1.6	1.7	34	32	20	5.0	3.4	1.8	1.4
16	2.1	3.7	1.9	1.7	1.9	46	29	19	5.0	3.4	1.7	1.4
17	2.2	3.3	1.9	1.7	2.0	35	25	17	4.9	3.3	1.6	1.4
18	2.4	3.9	1.9	1.7	2.0	24	25	17	4.9	3.5	1.6	1.3
19	2.5	3.1	1.9	1.7	2.2	19	34	16	4.9	4.1	1.6	1.2
20	2.6	2.0	1.9	1.7	3.4	20	41	14	4.8	4.5	1.6	1.2
21	2.8	1.9	1.9	1.8	5.7	18	47	13	4.9	4.0	1.6	1.2
22	2.7	2.0	1.8	1.8	6.0	15	46	12	4.9	4.0	1.5	1.4
23	2.6	2.1	1.8	1.9	5.0	11	43	11	4.9	3.7	1.4	1.4
24	2.6	2.1	1.8	1.9	3.8	10	40	9.9	4.2	3.7	1.3	1.5
25	2.5	2.1	1.8	1.8	3.1	16	38	9.5	4.2	3.1	1.2	1.5
26	2.6	1.1	1.8	1.7	2.7	18	36	9.3	5.1	2.8	1.2	1.5
27	2.6	1.8	1.8	1.8	2.9	13	35	8.9	5.0	2.6	1.2	1.5
28	2.7	2.2	1.9	1.8	2.7	11	34	7.8	4.7	2.6	1.2	1.4
29	2.6	2.0	2.1	1.7	---	9.4	33	7.3	4.3	2.7	1.2	1.5
30	2.8	1.9	2.0	1.7	---	9.0	33	7.0	4.2	2.7	1.2	1.5
31	2.9	---	2.0	1.7	---	9.3	---	7.0	---	2.5	1.2	---
TOTAL	68.4	74.5	58.0	55.3	68.1	370.2	1009.1	619.7	156.5	111.1	53.5	42.8
MEAN	2.21	2.48	1.87	1.78	2.43	11.9	33.6	20.0	5.22	3.58	1.73	1.43
MAX	2.9	3.9	2.1	1.9	6.0	46	61	36	7.5	4.5	2.4	1.6
MIN	1.6	1.1	1.4	1.6	1.5	2.8	8.5	7.0	4.2	2.5	1.2	1.2
AC-FT	136	148	115	110	135	734	2000	1230	310	220	106	85

CAL YR 1984	TOTAL	2827.80	MEAN	7.73	MAX	79	MIN	.62	AC-FT	5610
WTR YR 1985	TOTAL	2687.2	MEAN	7.36	MAX	61	MIN	1.1	AC-FT	5330

09243900 FOIDEL CREEK AT MOUTH NEAR OAK CREEK, CO--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1976 to September 1981, June 1982 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1976 to September 1981.
WATER TEMPERATURE: April 1976 to September 1981.
SUSPENDED SEDIMENT DISCHARGE: April 1976 to September 1981.

INSTRUMENTATION.--Water-quality monitor April 1976 to September 1981. Automatic pumping sampler April 1976 to September 1981.

REMARKS.--Daily maximum and minimum specific conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 3,520 microsiemens Aug. 10, 11, 1980; minimum, 255 microsiemens July 1, 1980.
WATER TEMPERATURES: Maximum, 28.5°C July 22, 1980; minimum, 0.0°C several days during winter period each year.
SEDIMENT CONCENTRATIONS: Maximum daily, 3,650 mg/L Apr. 2, 1981; no flow many days most years.
SEDIMENT LOADS: Maximum daily, 702 tons Apr. 23, 1980; no flow many days most years.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
FEB											
12...	13:20	1.6	2240	8.3	0.0	12.4	--	1200	260	140	100
APR											
22...	14:00	43	1460	8.4	10.0	8.8	--	790	160	94	50
MAY											
01...	14:15	32	1620	8.5	15.0	9.6	--	930	190	110	51
JUN											
14...	11:30	5.1	1870	8.5	15.0	--	4.2	1100	210	130	66
JUL											
18...	15:15	3.5	2130	7.9	22.0	7.6	2.7	1100	190	140	77
AUG											
01...	12:00	2.4	2300	8.1	17.5	8.3	3.4	1200	200	160	87
28...	11:15	1.2	2580	8.1	16.5	9.3	3.0	1500	270	200	110
SEP											
27...	11:15	1.5	2400	8.2	6.0	9.3	3.0	1500	280	200	100

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
FEB											
12...	1	4.6	322	1100	18	0.2	9.1	1800	2.5	7.9	0.02
APR											
22...	0.8	4.3	183	620	11	0.2	7.6	1100	1.4	123	0.03
MAY											
01...	0.7	5.0	152	740	--	0.2	6.1	--	--	--	0.03
JUN											
14...	0.9	4.2	163	950	9.9	0.2	3.7	1500	2.0	20	0.04
JUL											
18...	1	7.2	194	1100	19	0.2	3.3	1700	2.2	16	0.03
AUG											
01...	1	5.9	88	1200	24	0.2	2.7	1700	2.4	11	0.02
28...	1	6.2	193	1600	19	0.2	1.3	2300	3.2	7.5	0.02
SEP											
27...	1	5.8	239	1300	26	0.2	2.3	2100	2.8	8.3	0.02

09243900 FOIDEL CREEK AT MOUTH NEAR OAK CREEK, CO--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	BORON, DISSOLVED (UG/L AS B)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
FEB										
12...	2.50	0.38	1.4	1.8	0.02	0.02	110	1300	--	14
APR										
22...	5.90	0.49	1.2	1.7	0.07	0.01	70	3400	--	85
MAY										
01...	4.50	0.07	0.63	0.7	0.02	<0.01	90	1100	--	17
JUN										
14...	3.60	0.16	0.44	0.6	0.01	<0.01	100	270	250	16
JUL										
18...	1.90	0.11	0.69	0.8	0.01	<0.01	210	420	370	50
AUG										
01...	2.60	0.14	0.66	0.8	0.02	<0.01	90	1100	1100	40
28...	2.40	0.09	0.51	0.6	0.02	<0.01	170	430	390	40
SEP										
27...	2.30	0.15	0.55	0.7	0.02	0.01	140	450	390	60

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE (DEG C)
MAR					MAY				
18...	12:20	29	1560	2.0	16...	12:30	18	1720	13.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
APR					AUG				
22...	14:00	43	273	32	01...	12:00	2.4	218	1.4
MAY					28...	11:15	1.2	43	0.14
01...	14:15	32	224	19	SEP				
JUN					27...	11:15	1.5	101	0.41
14...	11:30	5.1	61	0.84					
JUL									
18...	15:15	3.5	982	9.3					

09244410 YAMPA RIVER BELOW DIVERSION, NEAR HAYDEN, CO

LOCATION.--Lat 40°29'18", long 107°09'33", in NW¼SW¼ sec.9, T.6 N., R.87W., Routt County, Hydrologic Unit 14050001, in bay of Colorado-Ute Electric Co. pumphouse on left bank 300 ft downstream from U.S. Highway 40, 0.1 mi upstream from Sage Creek, 0.5 mi downstream from diversion point of Gibraltar Canal, and 4.7 mi east of Hayden.

DRAINAGE AREA.--1,430 mi^2, approximately.

REVISED RECORDS.--WDR CO-84-3: 1974 (M), 1979 (M).

PERIOD OF RECORD.--Streamflow records, October 1965 to current year. Prior to October 1972, records included flow in Gibraltar Canal. Water-quality data available, June 1975 to September 1982.

GAGE.--Water-stage recorder. Elevation of gage is 6,380 ft, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1, 2, 11 to Mar. 20, and Aug. 7 to Sept. 15. Records good except those for estimated daily discharges, which are poor. Records show flow of river below Gibraltar Canal diversion. Natural flow of stream affected by diversions for irrigation of about 30,000 acres above and 200 acres below station, transbasin diversions, storage reservoirs, and return flow from irrigated areas. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--20 years, 1,119 ft^3/s, 810,700 acre-ft/yr; does not include flow in Gibraltar Canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,100 ft^3/s, May 16, 1984, gage height, 11.45 ft, maximum gage height, 11.90 ft, Apr. 27, 1974; minimum daily discharge, 5.1 ft^3/s, July 19, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,010 ft^3/s at 0900 June 9, gage height, 9.44 ft; minimum daily, 123 ft^3/s, Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	380	415	320	240	258	233	442	4240	5010	1500	673	130
2	370	400	333	230	240	233	430	4750	4650	1380	614	128
3	368	390	320	210	230	238	683	5480	4800	1300	595	142
4	379	375	330	200	240	235	1030	6300	4870	1240	532	155
5	454	360	300	200	240	240	766	6680	5200	1160	489	165
6	543	350	300	205	240	240	787	6910	5360	1040	446	170
7	476	360	295	220	240	238	1300	6160	5890	930	410	165
8	410	375	300	230	240	238	1830	6120	7100	774	375	168
9	371	380	310	237	228	238	2620	6450	8000	684	350	160
10	356	375	300	240	233	238	3130	6330	7280	656	340	150
11	350	360	278	220	240	240	3300	6840	5730	617	315	155
12	350	360	270	207	240	250	3550	5830	4810	608	305	160
13	365	350	270	200	240	248	3780	5220	4560	661	340	150
14	380	350	265	207	240	250	3620	4520	4550	638	315	155
15	390	340	270	200	240	270	3850	4070	4540	540	290	150
16	380	335	270	210	240	295	4060	3920	4470	475	270	156
17	370	320	250	210	240	360	4120	3930	4350	448	240	138
18	370	300	240	209	235	430	4270	4150	3860	638	225	133
19	390	280	240	200	238	640	5020	4430	3390	960	220	134
20	400	270	250	200	236	1000	4820	4380	3130	1250	218	123
21	390	270	255	204	232	1140	4270	4520	3110	998	210	130
22	365	280	260	212	232	991	3960	4590	2870	874	200	149
23	358	285	250	215	232	836	3770	4590	2490	876	190	176
24	352	290	240	220	232	742	3950	4900	2320	1050	190	169
25	356	300	230	222	230	998	3780	5580	2830	897	175	162
26	360	310	230	235	231	1220	3550	6090	3010	774	160	159
27	368	315	240	250	231	895	3360	6310	2430	810	150	160
28	370	315	243	250	231	727	3410	6470	2120	689	140	180
29	390	315	243	250	---	632	3810	6610	1800	696	140	241
30	400	315	245	250	---	452	3900	6380	1670	915	138	199
31	400	---	250	250	---	488	---	5610	---	807	140	---
TOTAL	11961	10040	8397	6833	6629	15475	91168	168360	126200	26885	9395	4712
MEAN	386	335	271	220	237	499	3039	5431	4207	867	303	157
MAX	543	415	333	250	258	1220	5020	6910	8000	1500	673	241
MIN	350	270	230	200	228	233	430	3920	1670	448	138	123
AC-FT	23720	19910	16660	13550	13150	30690	180800	333900	250300	53330	18630	9350

CAL YR 1984	TOTAL	705033	MEAN	1926	MAX	12500	MIN	230	AC-FT	1398000
WTR YR 1985	TOTAL	486055	MEAN	1332	MAX	8000	MIN	123	AC-FT	964100

09245000 ELKHEAD CREEK NEAR ELKHEAD, CO

LOCATION.--Lat 40°40'11", long 107°17'04", in NW¼NE¼ sec.8, T.8 N., R.88 W., Routt County, Hydrologic Unit 14050001, on right bank 0.2 mi upstream from North Fork Elkhead Creek, 4.5 mi northwest of Elkhead, and 12 mi north of Hayden.

DRAINAGE AREA.--64.2 mi².

PERIOD OF RECORD.--January to November 1910 and May to November 1920 (monthly discharge only, published in WSP 1313; published as "at Hayes Ranch"), April 1953 to current year.

REVISED RECORDS.--WSP 1733: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,845 ft, from topographic map. Prior to Nov. 30, 1920, nonrecording gage or water-stage recorder 675 ft upstream at different datum.

REMARKS.--Estimated daily discharges: Nov. 26 to Mar. 8. Records fair except for estimated daily discharges, which are poor. No diversion above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--32 years (water years 1954-85), 57.4 ft³/s; 41,590 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,850 ft³/s, May 20, 1984, gage height, 7.58 ft, from rating curve extended above 1,500 ft³/s, on basis of slope area determination of peak flow; no flow Sept.1, 1954, Sept. 12-19, 24, 1955, Aug. 27-29, 1961, Aug. 14-19, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft³/s, and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 5	2100	*1,160	*6.43	No other peak greater than base discharge.			

Minimum daily, 3.1 ft³/s, Aug. 31-Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	18	15	10	10	11	29	573	144	18	11	3.1
2	17	18	14	10	10	12	28	665	124	17	12	3.9
3	16	21	14	10	10	13	35	799	109	17	12	11
4	15	17	14	10	10	13	37	881	102	16	10	9.5
5	20	19	13	10	10	14	33	887	96	15	9.3	6.3
6	17	18	12	10	10	15	35	712	89	14	8.8	4.8
7	16	17	11	10	10	15	50	683	83	14	8.5	4.3
8	15	17	10	10	10	16	58	708	79	13	8.1	4.8
9	14	15	10	10	10	17	96	642	74	13	8.1	4.8
10	14	21	10	10	10	19	149	627	67	13	8.2	4.4
11	14	20	11	10	10	20	248	604	58	12	8.1	4.5
12	15	21	11	10	10	19	344	448	53	12	10	8.4
13	17	22	11	10	10	19	384	353	49	12	9.3	7.2
14	17	19	11	10	10	22	443	295	45	12	7.7	5.3
15	16	24	11	10	10	22	518	294	42	11	6.8	4.6
16	14	28	10	10	10	25	547	315	38	11	6.2	4.6
17	14	22	10	10	10	27	548	340	36	12	5.8	4.5
18	17	28	10	10	10	25	614	348	33	16	5.7	4.3
19	18	27	10	10	10	24	585	351	31	28	5.9	6.1
20	17	22	10	10	10	25	361	308	30	37	5.5	6.6
21	18	21	10	10	10	27	275	324	28	19	5.0	5.5
22	17	19	10	10	10	29	224	289	26	17	4.8	5.7
23	18	21	10	10	10	28	188	258	24	22	4.5	7.6
24	16	19	10	10	10	26	187	253	24	16	4.1	6.4
25	18	18	10	10	10	30	174	261	26	15	4.0	6.0
26	18	17	10	10	10	33	151	273	29	13	3.9	5.6
27	19	17	10	10	10	31	172	250	26	12	3.9	5.4
28	20	17	10	10	10	34	286	232	22	11	3.9	5.7
29	19	16	10	10	---	28	430	211	21	12	4.0	6.5
30	18	15	10	10	---	31	497	189	20	13	3.6	5.7
31	19	---	10	10	---	31	---	160	---	13	3.1	---
TOTAL	517	594	338	310	280	701	7726	13533	1628	476	211.8	173.1
MEAN	16.7	19.8	10.9	10.0	10.0	22.6	258	437	54.3	15.4	6.83	5.77
MAX	20	28	15	10	10	34	614	887	144	37	12	11
MIN	14	15	10	10	10	11	28	160	20	11	3.1	3.1
AC-FT	1030	1180	670	615	555	1390	15320	26840	3230	944	420	343

CAL YR 1984	TOTAL	41505.5	MEAN	113	MAX	1890	MIN	7.0	AC-FT	82330
WTR YR 1985	TOTAL	26487.9	MEAN	72.6	MAX	887	MIN	3.1	AC-FT	52540

09246920 FORTIFICATION CREEK NEAR FORTIFICATION, CO

LOCATION.--Lat 40°41'38", long 107°32'25", in NW¼NW¼ sec. 18, T.9 N., R.90 W., Moffat County, Hydrologic Unit 14050001, on right bank, 4.5 mi south of Fortification.

DRAINAGE AREA.--40.0 mi².

PERIOD OF RECORD.--October 1984 to September 1985.

GAGE.--Water-stage recorder. Elevation of gage is 6,520 ft, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 15 to Nov. 12, Nov. 28 to Mar. 21, May 8-19, 26-29, July 7-19. Records fair except for estimated daily discharges, which are poor. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 465 ft³/s at 2030 March 25, gage height 4.64 ft; minimum daily,0.10 ft³/s, Sept 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	8.5	3.3	5.0	5.0	6.4	45	68	41	5.6	2.9	.11
2	5.4	7.4	3.5	5.0	5.0	6.4	127	78	37	4.5	3.1	.10
3	5.4	6.6	3.8	5.0	5.0	6.4	165	85	34	3.6	2.6	1.4
4	5.4	6.4	3.9	5.0	5.0	6.4	83	82	36	3.1	1.8	2.3
5	5.7	6.8	3.9	5.0	5.0	6.6	34	71	37	2.5	1.6	.91
6	5.7	5.6	4.0	5.0	5.0	6.8	72	65	36	2.0	1.5	.31
7	6.1	5.3	4.4	4.4	5.0	7.0	73	66	34	1.9	1.3	.21
8	5.7	5.2	4.3	4.4	5.0	7.0	78	60	41	1.7	1.2	.27
9	5.4	6.0	4.4	4.4	5.0	7.0	118	68	40	1.5	.90	.46
10	5.4	6.8	4.5	4.4	5.0	7.2	95	67	36	1.4	.76	.47
11	7.2	7.4	4.4	4.4	5.0	7.4	97	68	32	1.2	.84	.28
12	7.6	7.4	4.4	4.4	5.0	7.4	96	66	25	1.6	1.2	.50
13	6.4	4.9	4.4	4.4	5.0	7.6	79	44	23	1.4	1.0	.85
14	5.7	5.1	4.4	4.4	5.0	7.8	83	33	21	1.2	.66	1.3
15	7.6	3.9	4.5	4.4	5.0	7.9	95	29	23	1.1	.60	1.3
16	6.6	4.5	4.5	4.4	5.0	7.9	102	29	20	.98	.39	1.2
17	7.4	5.1	4.6	4.4	5.0	7.9	92	31	19	1.4	.37	1.2
18	10	3.5	4.6	4.4	5.0	8.6	97	37	18	4.0	.37	1.1
19	12	3.2	4.6	4.4	5.1	11	125	43	16	2.7	.37	1.6
20	10	3.1	4.6	4.4	5.2	36	111	25	15	2.8	.42	2.1
21	10	4.2	4.6	4.4	5.8	149	171	38	14	2.8	.51	2.0
22	10	4.2	4.6	4.4	6.0	77	97	30	12	5.2	.51	1.8
23	8.2	3.5	4.6	4.4	6.0	41	60	37	10	6.9	.51	1.7
24	11	3.7	4.6	4.5	6.0	90	65	51	8.9	4.8	.48	1.6
25	8.0	3.9	4.7	4.7	6.0	208	51	60	10	4.5	.49	1.6
26	10	2.6	4.8	4.9	6.2	101	44	55	12	3.5	.67	1.6
27	9.8	2.9	5.0	5.0	6.4	44	52	56	9.8	3.1	.99	1.6
28	8.6	2.9	5.0	5.0	6.4	39	67	55	8.3	2.7	.55	1.5
29	7.6	3.2	5.0	5.0	---	31	69	54	6.9	3.4	.20	1.5
30	6.6	3.3	5.0	5.0	---	27	68	50	5.8	3.3	.14	1.5
31	6.0	---	5.0	5.0	---	32	---	45	---	3.8	.11	---
TOTAL	231.9	147.1	137.9	143.9	149.1	1015.7	2611	1646	681.7	90.18	29.04	34.37
MEAN	7.48	4.90	4.45	4.64	5.32	32.8	87.0	53.1	22.7	2.91	.94	1.15
MAX	12	8.5	5.0	5.0	6.4	208	171	85	41	6.9	3.1	2.3
MIN	5.4	2.6	3.3	4.4	5.0	6.4	34	25	5.8	.98	.11	.10
AC-FT	460	292	274	285	296	2010	5180	3260	1350	179	58	68

WTR YR 1985 TOTAL 6917.89 MEAN 19.0 MAX 208 MIN .10 AC-FT 13720

09247600 YAMPA RIVER BELOW CRAIG, CO.

LOCATION.--Lat 40°28'51", long 107°36'49", in SW¼NW¼ sec. 16, T.6 N., R.91 W., Moffat County, Hydrologic Unit 14050001, on left bank 0.5 mi downstream from state highway 13-789 bridge, and 3.3 mi southwest of Craig.

DRAINAGE AREA.--1750 mi²

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1975 to September 1980 (discharge measurements only), October 1984 to current year.

REMARKS.--Estimated daily discharges: Oct. 1 to Mar. 26. Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions for irrigation, transbasin diversion, storage reservoirs, and return flow from irrigated areas.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,300 ft³/s at 1900 May 6, gage height, 9.68 ft; minimum daily, 158 ft³/s, Sept. 2.

LISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	540	620	480	370	380	360	916	6220	7040	1700	886	169
2	520	600	500	350	360	360	926	6810	6390	1570	769	158
3	540	580	480	320	340	360	1600	7660	6220	1410	737	174
4	580	560	500	300	360	360	2590	8600	6010	1370	700	195
5	640	540	450	300	360	360	1630	9610	5870	1320	608	211
6	700	520	460	320	360	360	1360	9830	5820	1220	533	227
7	700	540	440	340	360	360	2230	9130	6000	1120	494	211
8	660	560	460	360	360	360	2680	8450	6660	1020	456	216
9	620	580	460	360	340	360	3930	8740	7520	943	436	210
10	600	580	420	360	360	360	5500	8780	7960	892	443	189
11	560	540	400	340	360	380	5310	9030	7010	856	408	197
12	540	520	400	320	360	380	5470	8800	5520	829	387	211
13	540	520	400	300	360	380	5990	7230	5000	840	432	186
14	560	520	400	320	360	380	5750	6280	4840	857	412	196
15	580	540	400	300	360	400	6090	5580	4800	794	382	205
16	560	540	400	320	360	480	6500	5390	4690	708	358	207
17	540	480	380	320	360	580	6500	5520	4640	670	309	200
18	560	450	360	300	360	700	6640	5870	4260	642	287	184
19	600	410	380	320	360	1000	7550	6220	3790	998	283	192
20	580	410	380	320	360	1500	8070	6270	3490	1460	285	195
21	560	410	380	320	360	2100	7300	6260	3390	1360	275	201
22	540	410	400	320	360	1800	7060	6440	3270	1240	258	248
23	540	430	380	320	360	1600	5940	6450	2850	1140	242	269
24	540	440	360	320	360	1600	5900	6610	2610	1170	245	271
25	540	460	350	340	360	1700	5530	7280	2760	1200	219	271
26	540	470	350	360	360	2460	4850	7850	3390	1020	198	277
27	560	480	370	380	360	1720	4890	8390	2890	982	193	273
28	580	480	370	380	360	1200	4860	8540	2440	928	191	259
29	600	480	370	380	---	1100	5620	8740	2050	823	175	324
30	600	480	370	380	---	931	5860	8690	1850	927	177	380
31	600	---	370	380	---	889	---	7960	---	1020	181	---
TOTAL	17920	15150	12620	10420	10060	26880	145042	233230	141030	33029	11959	6706
MEAN	578	505	407	336	359	867	4835	7524	4701	1065	386	224
MAX	700	620	500	380	380	2460	8070	9830	7960	1700	886	380
MIN	520	410	350	300	340	360	916	5390	1850	642	175	158
AC-FT	35540	30050	25030	20670	19950	53320	287700	462600	279700	65510	23720	13300

WTR YR 1985 TOTAL 664046 MEAN 1819 MAX 9830 MIN 158 AC-FT 1317000

09249750 WILLIAMS FORK RIVER AT MOUTH NEAR HAMILTON, CO.

LOCATION.--Lat 40°26'14", Long 107°38'50", in SE¼NW¼ sec.31, T.6 N., R.91 W., Moffat County, Hydrologic Unit 14050001, on left bank at coal mine service road crossing, 2,300 ft upstream from confluence with Yampa River, and 6.1 mi north-northeast of Hamilton, Co.

DRAINAGE AREA.--419 mi^2.

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

GAGE.--Water stage recorder. Elevation of gage is 6,170 ft, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 26, 27, 29, 30; Dec. 1-3, 8, 9, 14, 15, 19, 20, 23, 25, 27-30; Jan. 2, 6, 12, 18, 22, 26, 28, 30, and Feb. 10 to Mar. 20. Records good except for periods with ice effect, Nov. 26, 27, 29, 30; Dec. 1-3, 8, 9, 14, 15, 19, 20, 23, 25, 27-30; Jan. 2, 6, 12, 18, 22, 26, 28, 30, which are fair, and those for period of no gage-height record, Feb. 10 to Mar. 20, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 4,750 ft^3/s, May 16, 1984, gage height, 9.96 ft; minimum daily, 55 ft^3/s, Feb. 22, 23 and Mar. 6, 7, 1984.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 18	0900	1,580	6.63	May 6	0800	*2,980	*8.37

Minimum daily discharge, 56 ft^3/s, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111	149	105	98	87	85	130	1360	1160	356	125	56
2	128	128	115	75	82	85	137	1550	1080	329	124	64
3	140	142	110	68	80	85	209	1930	1100	304	124	79
4	128	130	121	68	83	85	299	2330	1070	292	116	86
5	253	116	97	73	83	85	195	2590	1070	278	108	73
6	222	130	130	75	83	85	199	2630	1040	263	100	65
7	156	126	105	84	83	85	238	2340	1070	246	97	61
8	135	125	130	83	81	85	288	2400	1310	228	96	63
9	124	127	130	86	81	85	402	2410	1440	214	105	62
10	118	118	117	87	85	85	456	2400	1340	201	96	59
11	120	134	115	83	85	90	506	2400	1130	189	91	61
12	123	129	111	80	85	90	582	1810	964	186	106	73
13	138	127	104	75	85	90	660	1500	927	192	114	77
14	147	139	105	77	85	90	680	1230	906	193	95	67
15	147	122	105	73	85	100	803	1170	877	169	88	64
16	125	104	107	77	85	110	958	1220	828	167	83	67
17	129	134	103	78	85	120	1130	1420	780	168	78	68
18	140	109	95	75	85	130	1380	1650	748	172	74	61
19	138	96	100	78	85	140	1410	1580	691	199	74	63
20	145	86	100	74	85	173	1140	1380	639	280	73	67
21	142	92	102	77	85	176	980	1370	622	244	69	65
22	127	99	107	75	85	164	863	1430	573	233	65	78
23	129	103	90	75	85	142	740	1370	519	205	63	92
24	126	110	90	75	85	143	769	1530	480	189	61	85
25	117	124	90	81	85	187	761	1510	522	172	60	79
26	124	110	90	85	85	236	721	1670	614	155	61	74
27	150	100	100	86	85	180	664	1570	541	154	59	72
28	122	102	100	85	85	138	826	1610	475	145	60	80
29	152	105	100	86	---	156	1120	1610	411	145	61	101
30	149	105	100	85	---	132	1140	1500	373	154	58	87
31	148	---	98	87	---	140	---	1250	---	140	57	---
TOTAL	4353	3521	3272	2464	2358	3777	20386	53720	25300	6562	2641	2149
MEAN	140	117	106	79.5	84.2	122	680	1733	843	212	85.2	71.6
MAX	253	149	130	98	87	236	1410	2630	1440	356	125	101
MIN	111	86	90	68	80	85	130	1170	373	140	57	56
AC-FT	8630	6980	6490	4890	4680	7490	40440	106600	50180	13020	5240	4260

WTR YR 1985 TOTAL 130503 MEAN 358 MAX 2630 MIN 56 AC-FT 258900

09250000 MILK CREEK NEAR THORNBURGH, CO

LOCATION.--Lat 40°11'37", long 107°43'57", in NE¼ sec.32, T.3 N., R.92 W., Rio Blanco County, Hydrologic Unit 14050002, on right bank 2.2 mi southwest of Thornburgh and 3.0 mi upstream from Little Creek.

DRAINAGE AREA.--65 mi^2, approximately.

PERIOD OF RECORD.--Streamflow records, October 1952 to current year. Water-quality data available, May to September 1982. Published as "near Thornburg" October 1952 to September 1968.

GAGE.--Water-stage recorder. Datum of gage is 6,599.32 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Estimated daily discharges: Nov. 2 to Jan. 14 and Aug. 11 to Sept. 4. Records good except for estimated daily discharges, which are poor. Diversion for irrigation of about 1,320 acres above station.

AVERAGE DISCHARGE.--33 years, 29.1 ft^3/s; 21,080 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,580 ft^3/s, May 14, 1984, gage height, 7.36 ft, from rating curve extended above 540 ft^3/s, on basis of slope-area determination of peak flow; minimum daily discharge, 0.20 ft^3/s, for several days in 1956, 1963, and 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 19	0300	324	4.02	May 18	0300	337	3.83
May 07	0200	*507	*4.82				

Minimum daily discharge, 0.66 ft^3/s, Sept. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	16	21	17	14	10	28	267	154	26	8.7	3.5
2	12	16	20	17	13	11	58	290	146	24	8.5	4.8
3	9.9	18	20	17	13	11	103	332	137	21	8.8	6.4
4	8.8	15	20	17	15	11	84	386	127	20	8.5	5.6
5	33	16	20	17	15	11	47	446	119	20	8.2	4.2
6	17	16	20	17	16	9.8	44	472	113	19	8.4	3.5
7	13	15	20	17	16	9.2	61	460	115	18	8.5	2.9
8	9.4	15	20	17	15	8.7	71	448	116	17	8.2	3.0
9	7.5	15	20	17	16	11	94	450	113	17	8.0	3.0
10	6.7	20	19	17	17	11	104	440	107	17	7.9	2.7
11	6.0	18	19	17	17	19	117	426	98	16	8.6	3.2
12	6.2	19	19	17	18	31	136	357	86	16	9.6	5.0
13	10	21	19	17	18	42	147	312	79	16	8.4	2.2
14	12	19	19	17	17	44	153	258	73	16	7.4	1.1
15	16	23	19	17	17	39	176	238	67	16	6.6	.85
16	14	27	19	17	17	43	202	249	62	15	6.1	1.3
17	14	20	19	16	17	49	231	299	58	15	5.8	1.0
18	14	27	19	15	15	55	280	322	51	16	5.8	.66
19	14	27	19	15	14	56	286	313	46	18	5.6	1.0
20	13	22	19	15	14	57	239	284	43	26	5.3	1.1
21	14	20	19	14	15	57	216	280	39	24	5.0	.96
22	13	18	19	14	14	44	210	285	35	23	4.7	1.1
23	12	20	18	14	14	33	191	275	32	22	4.4	1.8
24	11	18	18	15	13	45	209	273	30	19	4.1	1.5
25	11	18	18	15	13	67	193	261	31	18	3.9	1.2
26	10	20	18	15	12	52	170	261	43	17	3.8	1.0
27	11	20	18	14	11	35	165	245	45	15	3.8	.92
28	11	20	18	14	11	34	186	232	40	13	3.9	.99
29	14	20	18	14	---	29	223	217	35	12	3.6	1.7
30	16	20	18	15	---	29	232	194	30	12	3.3	1.1
31	17	---	18	15	---	28	---	156	---	11	3.0	---
TOTAL	382.5	579	590	492	417	991.7	4656	9728	2270	555	196.4	69.28
MEAN	12.3	19.3	19.0	15.9	14.9	32.0	155	314	75.7	17.9	6.34	2.31
MAX	33	27	21	17	18	67	286	472	154	26	9.6	6.4
MIN	6.0	15	18	14	11	8.7	28	156	30	11	3.0	.66
AC-FT	759	1150	1170	976	827	1970	9240	19300	4500	1100	390	137

CAL YR 1984	TOTAL	29902.9	MEAN	81.7	MAX	1110	MIN	4.9	AC-FT	59310
WTR YR 1985	TOTAL	20926.88	MEAN	57.3	MAX	472	MIN	.66	AC-FT	41510

09250507 WILSON CREEK ABOVE TAYLOR CREEK, NEAR AXIAL, CO

LOCATION.--Lat 40°18'53", long 107°47'58", in NW¼SW¼ sec.14, T.4 N., R.93 W., Moffatt County, Hydrologic Unit 14050002, on left bank about 200 ft upstream from Moffat County Road 17, about 50 ft upstream from confluence of Taylor Creek, and 2.4 mi north of Axial.

DRAINAGE AREA.--20.0 mi^2.

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,315 ft, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 10, 15, 16, 18-24, Nov. 26 to Mar. 18, Mar. 28-31. Records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--5 years, 7.02 ft^3/s; 5,090 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 352 ft^3/s, May 14, 1984 gage height, 8.71 ft, on basis of indirect measurement of peak flow; minimum daily, 0.15 ft^3/s, Mar. 20, 21, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 122 ft^3/s at 2115 May 3, gage height, 5.30 ft; minimum daily, 1.5 ft^3/s, Aug. 29 to Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	4.8	2.2	2.3	5.0	5.0	8.0	71	15	4.9	2.9	1.5
2	4.8	4.3	2.1	2.0	5.0	5.0	7.7	89	14	4.7	2.9	2.0
3	3.9	4.8	2.0	1.7	5.0	5.0	11	91	14	4.8	2.7	2.6
4	6.1	5.1	2.0	1.7	5.0	5.0	20	97	13	5.0	2.6	2.0
5	6.8	4.1	1.9	1.8	5.0	5.0	21	93	13	5.0	2.6	1.9
6	6.6	2.7	1.9	1.9	5.0	5.0	21	84	11	5.1	2.4	1.8
7	6.6	2.7	1.9	2.2	5.0	5.0	23	68	10	4.8	2.2	1.8
8	5.3	2.7	2.0	2.4	5.0	5.0	12	67	8.5	4.7	2.0	1.8
9	4.1	2.7	2.1	2.7	5.0	5.0	16	67	9.5	4.6	2.4	1.6
10	3.9	2.5	2.2	2.7	5.0	5.0	18	62	8.7	4.7	2.3	1.7
11	3.8	2.3	2.2	2.7	5.0	5.0	20	55	9.1	4.6	2.3	1.9
12	4.8	2.1	2.2	2.7	5.0	5.0	25	51	8.7	4.5	2.4	2.5
13	3.8	2.0	2.2	2.7	5.6	5.0	30	39	8.6	5.2	2.3	1.8
14	3.8	1.8	2.1	2.7	6.0	5.0	29	33	8.0	4.5	2.3	1.8
15	3.4	1.8	2.0	2.7	6.0	5.0	32	29	7.9	4.1	2.0	1.8
16	3.2	1.8	2.0	2.7	6.0	5.2	39	28	7.7	3.6	2.0	1.9
17	3.1	1.8	2.0	2.7	5.8	5.6	54	25	5.9	3.9	2.0	1.8
18	2.9	1.8	2.0	2.9	5.6	6.2	54	24	4.4	4.2	2.0	2.0
19	2.9	1.8	2.0	3.2	5.4	7.1	67	25	4.8	5.6	1.8	2.1
20	3.1	1.8	2.0	3.4	5.2	7.5	51	25	5.8	5.6	1.8	2.1
21	2.9	1.8	2.2	3.5	5.0	6.0	47	25	5.7	4.5	2.0	2.0
22	2.8	1.8	2.1	3.6	5.0	6.7	49	21	5.7	4.2	2.1	2.2
23	2.7	1.8	2.1	3.8	5.0	7.0	51	20	5.8	3.8	2.1	2.1
24	2.7	1.8	2.1	3.9	5.0	6.8	47	19	6.1	3.5	2.1	2.1
25	3.4	1.8	2.1	4.0	5.0	7.4	39	18	6.8	3.3	1.9	1.9
26	2.7	1.7	2.0	4.2	5.0	7.4	40	18	7.0	3.3	1.7	1.9
27	2.9	1.7	2.1	4.4	5.0	7.3	47	18	6.1	3.1	1.7	1.9
28	6.6	1.8	2.0	4.7	5.0	7.5	52	17	5.6	3.0	1.6	2.1
29	5.1	2.0	2.3	5.0	---	7.5	51	16	5.3	3.0	1.5	2.1
30	4.5	2.2	2.3	5.0	---	7.5	54	15	5.3	3.3	1.5	2.3
31	5.0	---	2.3	5.0	---	7.5	---	15	---	3.0	1.5	---
TOTAL	128.3	73.8	64.6	96.9	145.6	185.2	1035.7	1325	247.0	132.1	65.6	59.0
MEAN	4.14	2.46	2.08	3.13	5.20	5.97	34.5	42.7	8.23	4.26	2.12	1.97
MAX	6.8	5.1	2.3	5.0	6.0	7.5	67	97	15	5.6	2.9	2.6
MIN	2.7	1.7	1.9	1.7	5.0	5.0	7.7	15	4.4	3.0	1.5	1.5
AC-FT	254	146	128	192	289	367	2050	2630	490	262	130	117

CAL YR 1984	TOTAL	5510.1	MEAN	15.1	MAX	262	MIN	1.4	AC-FT	10930
WTR YR 1985	TOTAL	3558.8	MEAN	9.75	MAX	97	MIN	1.5	AC-FT	7060

09250510 TAYLOR CREEK AT MOUTH, NEAR AXIAL, CO

LOCATION.--Lat 40°18'48", long 107°47'57", in NW¼SW¼ sec.14, T.4 N., R.93 W., Moffatt County, Hydrologic Unit 14050002, on right bank 475 ft upstream from confluence with Wilson Creek, about 1,000 ft southwest of Gossard ranch house, and 2 mi north of Axial.

DRAINAGE AREA.--7.22 mi^2.

PERIOD OF RECORD.--Streamflow records, July 1975 to current year. Water-quality data available, July 1975 to September 1981.

GAGE.--Water-stage recorder. Elevation of gage is 6,300 ft, from topographic map. Prior to Mar. 28, 1980, gage 25 ft upstream at datum 0.08 ft, higher.

REMARKS.--Estimated daily discharges: Oct. 5-9, Nov. 26 to Mar. 20, Apr. 4-9, Apr. 30 to May 21, And June 10-20. Records fair except for estimated daily discharges, which are poor. No diversions. Low dam to prevent erosion, 75 ft upstream. Several abservations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--10 years, 0.64 ft^3/s; 464 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 41 ft^3/s, May 15, 1984, gage height, 2.25 ft; no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28 ft^3/s at 1100 April 16, gage height, 2.24 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.43	.45	.00	.01	.50	.20	1.5	16	3.9	1.3	.63	.31
2	.60	.67	.00	.01	.50	.20	2.2	17	3.6	1.3	.49	.69
3	.39	1.1	.00	.00	.50	.20	2.5	17	3.5	1.2	.65	.76
4	2.2	1.1	.00	.00	.50	.20	2.5	19	3.4	1.2	.62	.41
5	1.1	.73	.00	.02	.50	.20	2.5	20	3.3	1.2	.42	.09
6	.80	.35	.00	.03	.50	.20	2.5	18	3.1	1.1	.45	.01
7	.50	.48	.00	.05	.50	.20	2.5	16	3.1	1.1	.00	.07
8	.40	.48	.00	.07	.50	.20	2.6	14	3.0	1.1	.04	.55
9	.28	.50	.01	.12	.50	.20	2.6	13	3.0	1.0	.40	.35
10	.26	.33	.01	.20	.50	.20	2.8	13	2.8	.98	.05	.21
11	.14	.37	.01	.20	.50	.20	3.4	12	2.7	.94	.04	.31
12	.93	.37	.01	.20	.50	.20	6.1	11	2.6	.87	.25	.67
13	.56	.39	.01	.20	.60	.20	10	10	2.5	.85	.04	.12
14	1.0	.41	.01	.20	.80	.20	12	9.0	2.3	.81	.07	.44
15	.57	.37	.01	.20	.80	.20	12	8.0	2.2	.78	.00	.69
16	.55	.37	.01	.20	.80	.21	8.5	7.0	2.0	.76	.04	.62
17	.63	.45	.01	.20	.80	.21	4.4	6.5	1.9	.72	.28	.39
18	.67	.37	.01	.21	.80	.21	5.6	6.5	1.8	.68	.44	.02
19	.60	.23	.01	.23	.80	.22	10	6.5	1.7	.94	.42	.20
20	.70	.06	.01	.25	.80	.22	12	7.0	1.4	1.1	.33	.52
21	.57	.04	.01	.27	.80	.20	13	7.0	1.3	1.0	.45	.45
22	.48	.04	.01	.29	.60	.57	13	7.0	1.1	.90	.40	.64
23	.48	.06	.01	.32	.40	.61	13	6.5	1.1	.80	.13	.52
24	.48	.23	.01	.34	.30	.51	13	6.2	1.2	.82	.13	.49
25	.39	.50	.01	.36	.20	.46	14	5.8	1.5	.85	.49	.43
26	.45	.20	.01	.39	.20	.76	14	5.6	1.6	.56	.24	.52
27	.52	.07	.01	.42	.20	.70	14	5.3	1.6	.70	.03	.38
28	.55	.03	.01	.46	.20	.81	14	4.7	1.5	.75	.62	1.2
29	.52	.01	.01	.50	---	.80	14	4.4	1.4	.80	.25	.81
30	.52	.00	.01	.50	---	.92	15	4.0	1.3	.76	.00	.58
31	.55	---	.01	.50	---	1.1	---	4.0	---	.75	.31	---
TOTAL	18.82	10.76	.23	6.95	15.10	11.51	245.2	307.0	67.4	28.62	8.71	13.45
MEAN	.61	.36	.01	.22	.54	.37	8.17	9.90	2.25	.92	.28	.45
MAX	2.2	1.1	.01	.50	.80	1.1	15	20	3.9	1.3	.65	1.2
MIN	.14	.00	.00	.00	.20	.20	1.5	4.0	1.1	.56	.00	.01
AC-FT	37	21	.5	14	30	23	486	609	134	57	17	27

CAL YR 1984	TOTAL	1111.49	MEAN	3.04	MAX	38	MIN	.00	AC-FT	2200
WTR YR 1985	TOTAL	733.75	MEAN	2.01	MAX	20	MIN	.00	AC-FT	1460

09251000 YAMPA RIVER NEAR MAYBELL, CO

LOCATION.--Lat 40°30'10", long 108°01'45", in NW¼ sec.2, T.6 N., R.95 W., Moffat County, Hydrologic Unit 14050002, on left bank 100 ft downstream from bridge on U.S. Highway 40, 2.0 mi downstream from Lay Creek, and 3.0 mi east of Maybell.

DRAINAGE AREA.--3,410 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1904 to October 1905, June 1910 to November 1912, April 1916 to current year. Monthly discharge only for some periods, published in WSP 1313. No winter records prior to 1917.

GAGE.--Water-stage recorder. Datum of gage is 5,900.23 ft above National Geodetic Vertical Datum of 1929. See WSP 1733 for history of changes prior to Mar. 9, 1937.

REMARKS.--Estimated daily discharges: Nov. 27 to Apr. 4. Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transbasin diversions, numerous storage reservoirs, and diversions above station for irrigation of about 65,000 acres above and about 800 acres below station.

AVERAGE DISCHARGE.--69 years (water years 1917-85), 1,584 ft^3/s; 1,148,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,100 ft^3/s, May 17, 1984, gage height, 12.42 ft; minimum daily, 2.0 ft^3/s, July 17-19, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 20	0600	10,200	8.56	May 7	1330	*13,600	*9.69

Minimum daily discharge, 201 ft^3/s, Aug. 31, Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	639	887	690	560	500	480	1250	8070	7730	2060	1170	222
2	620	862	730	520	480	480	1300	8890	7050	1880	1030	201
3	636	826	700	450	460	480	1800	9880	6900	1740	953	216
4	701	802	740	400	480	480	2900	11200	6950	1650	915	281
5	734	806	650	400	480	480	2760	12600	7070	1600	859	277
6	888	740	620	420	480	480	1820	13300	7210	1480	769	275
7	913	765	620	440	480	480	2220	13000	7370	1360	675	279
8	832	782	620	460	480	480	3060	11900	8090	1230	615	248
9	734	797	630	480	460	480	3780	12000	9110	1130	611	264
10	664	791	640	480	480	480	5880	12200	9620	1070	598	247
11	631	709	640	460	480	500	5960	12200	8770	1030	596	229
12	632	713	640	440	480	500	6110	11800	7130	976	520	237
13	668	743	620	420	480	500	6690	9760	6300	1000	504	271
14	681	719	600	440	480	500	6750	8320	6040	1020	614	242
15	714	795	600	420	480	540	6810	7400	5970	996	523	240
16	702	801	600	440	480	620	7410	7100	5820	897	472	248
17	665	676	560	440	480	800	7900	7290	5710	841	443	235
18	675	700	540	420	480	1200	8230	7780	5350	799	398	244
19	717	684	560	440	480	1500	8800	8020	4670	921	367	221
20	752	596	560	420	480	1800	10100	7890	4210	1450	366	230
21	768	555	560	440	480	2600	9440	7700	4020	1770	388	252
22	765	562	540	440	480	2000	9070	7900	3920	1570	355	250
23	752	598	520	440	480	1800	7990	7780	3500	1430	318	334
24	746	644	520	440	480	1800	7370	7900	3190	1340	296	372
25	744	640	520	460	480	1900	7320	8280	3140	1440	308	360
26	716	665	520	480	480	2400	6770	8920	4080	1340	287	360
27	737	680	540	500	480	2000	6470	9260	3720	1180	245	362
28	813	680	560	500	480	1400	6270	9330	3090	1180	228	352
29	818	692	560	500	---	1300	7080	9410	2600	1080	231	343
30	847	690	560	500	---	1200	7720	9350	2250	1020	212	456
31	856	---	560	500	---	1200	---	8650	---	1240	201	---
TOTAL	22760	21600	18520	14150	13420	32860	177030	295080	170580	39720	16067	8348
MEAN	734	720	597	456	479	1060	5901	9519	5686	1281	518	278
MAX	913	887	740	560	500	2600	10100	13300	9620	2060	1170	456
MIN	620	555	520	400	460	480	1250	7100	2250	799	201	201
AC-FT	45140	42840	36730	28070	26620	65180	351100	585300	338300	78780	31870	16560

CAL YR 1984	TOTAL	1122941	MEAN	3068	MAX	24400	MIN	400	AC-FT	2227000
WTR YR 1985	TOTAL	830135	MEAN	2274	MAX	13300	MIN	201	AC-FT	1647000

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued
(National Stream-Quality Accounting Network Station)

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1950 to August 1973, July 1975 to current year.
WATER TEMPERATURES: November 1950 to August 1973, July 1975 to current year.
SUSPENDED-SEDIMENT DISCHARGE: December 1950 to May 1958, October 1975 to September 1976, October 1977 to September 1978, October 1981 to September 1982.

INSTRUMENTATION:--Water-quality monitor since July 1975.

REMARKS.--Daily maximum and minimum specific conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1200 microsiemens Apr. 6,7, 1984; minimum, 89 microsiemens June 27, 1983.
WATER TEMPERATURES: Maximum, 33.0°C Aug. 29, 1976; minimum, freezing point on many days during winter months each year.
SEDIMENT CONCENTRATIONS: Maximum daily, 6,180 mg/l, Aug. 16, 1981; minimum daily, 1 mg/l, several days during December 1975 to February 1976, Jan. 6, 1980.
SEDIMENT LOADS: Maximum daily, 47,100 tons May 9, 1958; minimum daily, 0.04 ton Oct. 2,3, 1982

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1130 microsiemens Mar. 7,8,9,15; minimum 115 microsiemens June 18.
WATER TEMPERATURES: Maximum, 25.0°C, July 10,11,14,15; minimum 0.0°C, many days December to March.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
DEC											
20...	07:30	560	940	8.4	0.0	3.9	11.6	K1	K13	350	62
MAR											
07...	11:50	479	1130	8.1	0.0	21	10.5	K4	3800	420	74
JUL											
09...	14:00	1130	415	8.9	23.5	5.1	7.2	K13	460	180	37
AUG											
27...	14:55	268	719	8.8	22.0	1.3	9.0	K10	780	300	57

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3))	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
DEC									
20...	47	71	2	2.7	183	300	22	0.2	10
MAR									
07...	56	92	2	3.2	190	380	29	0.2	12
JUL									
09...	20	25	0.8	2.0	93	100	9.9	0.2	4.4
AUG									
27...	37	50	1	3.0	150	200	22	0.2	3.1

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
DEC										
20...	617	630	0.84	933	1.60	0.02	0.5	0.01	<0.01	<0.01
MAR										
07...	792	760	1.1	1020	2.00	0.13	0.9	0.09	0.04	0.04
JUL										
09...	259	250	0.35	790	<0.10	0.04	0.6	0.03	<0.01	<0.01
AUG										
27...	461	460	0.63	334	<0.10	0.04	0.7	0.03	<0.01	<0.01

K BASED ON NON-IDEAL COLONY COUNT.

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
DEC										
20...	10	<1	64	0.9	<1	<1	<3	2	12	4
MAR										
07...	<10	<1	58	<0.5	<1	<1	<3	2	10	<1
JUL										
09...	<10	<1	48	<0.5	<1	<1	<3	2	28	3
AUG										
27...	10	1	65	<0.5	<1	<1	<3	3	16	1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
DEC										
20...	41	14	<0.1	<10	4	8	<1	590	<6	17
MAR										
07...	49	19	<0.1	<10	3	7	<1	700	<6	16
JUL										
09...	16	6	<0.1	<10	<1	4	<1	280	<6	9
AUG										
27...	32	4	0.2	<10	2	2	<1	470	<6	7

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
OCT				
07...	12:40	932	47	118
14...	12:50	680	20	37
21...	14:35	768	16	33
28...	11:45	797	18	39
NOV				
04...	15:10	783	16	163
11...	13:30	695	10	19
18...	13:05	702	16	30
DEC				
01...	12:15	690	46	86
09...	16:45	630	59	100
16...	16:10	600	22	36
20...	07:30	560	11	17
23...	15:45	520	57	80
JAN				
01...	16:00	560	21	32
06...	12:45	420	19	22
20...	12:30	420	26	29
28...	16:30	500	14	19
FEB				
03...	12:30	460	65	81
10...	10:40	480	69	89
17...	12:45	480	93	121
24...	12:55	480	81	105
MAR				
02...	11:25	480	95	123
07...	11:50	479	88	114
10...	14:05	480	147	191
17...	13:35	800	952	2060
24...	11:50	1800	2300	11200
31...	13:50	1200	249	807
APR				
07...	13:15	1990	494	2650
14...	13:45	6200	1430	23900
21...	15:10	9280	1600	40100
28...	12:50	6040	1280	20900
MAY				
07...	19:45	13000	1940	68100
12...	15:30	12200	1320	43500
23...	07:00	7800	768	16200
26...	09:40	8750	806	19000
JUN				
02...	19:25	6980	474	8930
12...	17:40	6980	298	5620
16...	11:10	5660	197	3010
23...	14:40	3440	153	1420
JUL				
02...	17:50	1890	95	485
07...	12:45	1390	42	158
14...	12:15	1000	18	49
21...	12:15	1820	474	2330
29...	12:45	1180	26	83
AUG				
04...	11:30	886	8	19
11...	10:45	609	11	18
20...	17:55	376	8	8.1
25...	07:50	310	3	2.5
27...	14:55	268	3	2.2
SEP				
02...	12:30	210	5	2.3
08...	13:45	254	11	7.5
15...	14:15	242	9	5.9
23...	17:25	365	5	4.9
29...	12:30	345	5	4.7

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JUL 09...	14:00	1130	19	58	78

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	605	860	862	977	923	1070	---	---	212	331	462	783
2	649	872	885	1020	927	1080	---	---	248	341	468	765
3	683	896	900	1030	924	1080	---	---	249	352	490	785
4	702	880	910	1030	933	1070	1010	---	227	371	511	818
5	707	865	950	1030	940	1080	889	---	217	370	532	842
6	711	847	1000	1040	935	1100	945	---	171	370	541	850
7	660	848	1040	1010	928	1130	991	---	172	386	558	825
8	644	835	1020	941	922	1120	891	342	192	392	579	797
9	611	817	988	890	918	1110	777	319	172	402	585	818
10	618	795	934	856	919	1090	665	301	158	432	594	791
11	628	802	855	845	926	1050	584	305	155	454	589	773
12	640	846	802	852	935	1020	535	311	170	466	586	796
13	666	865	794	885	949	1070	499	340	187	465	599	815
14	692	873	814	917	962	1100	466	368	196	488	587	832
15	755	876	854	946	975	1110	453	393	188	500	578	860
16	765	895	890	---	984	1090	425	386	185	491	579	893
17	756	927	920	---	994	1060	415	372	166	505	569	878
18	746	940	929	---	991	1050	385	358	161	530	599	837
19	761	940	932	---	988	---	375	334	193	542	621	830
20	770	925	929	920	1000	---	---	327	208	533	637	854
21	776	902	919	915	1000	---	540	327	209	478	669	876
22	779	916	904	907	1010	---	588	317	210	446	676	854
23	780	930	899	913	1020	---	587	311	217	487	684	836
24	770	896	908	926	1030	---	586	300	233	514	725	814
25	765	862	924	954	1040	---	569	270	238	490	711	782
26	770	---	937	985	1050	---	585	242	240	463	696	808
27	772	845	931	1000	1070	---	632	234	243	450	689	801
28	789	810	920	1010	1070	---	---	230	298	453	715	763
29	797	819	898	981	---	---	---	217	315	431	735	760
30	840	851	898	953	---	---	---	204	325	452	744	775
31	859	---	914	937	---	---	---	197	---	480	769	---
MEAN	725	870	912	951	974	1080	626	304	212	447	615	817

WTR YR 1985 MEAN 702 MAX 1130 MIN 155

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.0	10.5	6.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0
2	13.5	11.0	6.5	4.0	.0	.0	.0	.0	.0	.0	.0	.0
3	14.0	12.0	6.5	5.0	.0	.0	.0	.0	.0	.0	.0	.0
4	13.5	12.5	5.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0
5	---	---	5.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0
6	---	---	5.5	4.0	.0	.0	.0	.0	.0	.0	.0	.0
7	---	---	5.5	4.0	.0	.0	.0	.0	.0	.0	.0	.0
8	---	---	4.5	3.5	.0	.0	.0	.0	.0	.0	.0	.0
9	---	---	4.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0
10	---	---	3.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0
11	---	---	3.5	2.0	.0	.0	.0	.0	.0	.0	.0	.0
12	---	---	4.5	2.5	.0	.0	.0	.0	.0	.0	.0	.0
13	---	---	5.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0
14	---	---	5.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0
15	---	---	4.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0
16	---	---	3.0	2.0	.0	.0	---	---	.0	.0	.0	.0
17	---	---	3.5	2.0	.0	.0	---	---	.0	.0	.0	.0
18	---	---	3.0	1.5	.0	.0	---	---	.0	.0	.0	.0
19	---	---	2.5	1.0	.0	.0	---	---	.0	.0	---	---
20	---	---	2.0	1.0	.0	.0	.0	.0	.0	.0	---	---
21	---	---	2.5	1.0	.0	.0	.0	.0	.0	.0	---	---
22	---	---	2.0	1.0	.0	.0	.0	.0	.0	.0	---	---
23	---	---	1.5	1.0	.0	.0	.0	.0	.0	.0	---	---
24	---	---	1.5	1.0	.0	.0	.0	.0	.0	.0	---	---
25	---	---	1.5	1.0	.0	.0	.0	.0	.0	.0	---	---
26	---	---	1.0	1.0	.0	.0	.0	.0	.0	.0	---	---
27	---	---	1.5	1.0	.0	.0	.0	.0	.0	.0	---	---
28	---	---	1.0	1.0	.0	.0	.0	.0	.0	.0	---	---
29	---	---	1.5	1.0	.0	.0	.0	.0	---	---	---	---
30	---	---	1.0	.5	.0	.0	.0	.0	---	---	---	---
31	6.0	5.0	---	---	.0	.0	.0	.0	---	---	---	---
MONTH	14.0	5.0	6.5	.5	.0	.0	.0	.0	.0	.0	.0	.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	11.0	9.5	10.0	8.5	20.5	17.0	22.5	19.0	22.5	19.5
2	---	---	11.5	10.0	11.5	9.0	21.5	18.0	22.5	20.0	21.0	18.5
3	---	---	11.0	10.5	12.5	11.0	22.0	18.0	22.5	19.0	21.0	17.0
4	---	---	11.0	9.5	13.5	12.0	22.0	19.0	23.0	19.0	21.0	17.5
5	5.0	3.5	9.0	8.5	14.0	12.5	22.5	19.0	23.5	19.5	19.5	16.5
6	6.5	3.0	---	---	14.0	12.5	23.0	19.5	23.0	19.5	19.5	15.5
7	8.5	5.0	---	---	14.5	12.5	23.0	20.0	23.5	19.5	17.0	14.5
8	9.0	6.5	11.0	9.5	15.5	13.5	23.5	20.0	22.0	18.5	18.0	13.5
9	9.5	8.5	10.5	9.5	15.5	14.0	24.0	21.0	22.5	18.5	18.5	15.5
10	8.5	7.0	10.0	9.0	14.5	13.5	25.0	20.5	21.5	17.5	15.5	13.0
11	7.5	6.0	9.0	8.0	14.0	12.5	25.0	21.5	20.5	18.5	14.5	12.5
12	8.0	6.5	8.5	7.5	14.0	12.0	24.5	21.5	20.0	16.0	15.0	11.5
13	8.0	7.0	7.5	6.5	15.5	13.5	24.5	21.0	20.0	16.0	16.0	11.5
14	8.5	7.0	9.0	6.5	16.0	14.5	25.0	20.5	21.0	17.0	17.5	12.5
15	9.0	8.0	10.5	8.5	16.5	14.5	25.0	21.0	20.5	17.5	18.0	14.5
16	9.0	8.5	11.0	10.0	16.5	15.0	23.5	21.0	19.5	16.5	17.5	14.0
17	9.0	8.5	11.5	10.5	17.0	15.0	23.5	21.0	20.5	16.0	16.5	13.5
18	9.5	8.0	12.0	10.5	17.0	15.0	23.5	20.5	21.5	18.5	15.0	13.5
19	8.5	6.0	11.0	10.0	17.5	15.0	23.5	21.0	21.5	18.0	14.5	12.0
20	6.0	4.0	11.5	9.5	17.5	15.5	21.5	20.0	21.5	18.0	14.5	10.5
21	6.0	4.0	12.0	10.5	18.0	15.5	21.0	19.5	22.5	19.0	14.5	11.0
22	6.0	5.5	12.0	10.5	18.5	16.0	21.0	19.0	22.5	19.0	13.5	11.0
23	7.0	5.0	12.0	11.0	18.5	16.0	21.5	19.0	22.0	17.5	12.5	9.5
24	8.5	6.5	12.5	10.5	18.0	16.5	23.0	19.5	21.5	17.0	11.5	10.0
25	8.0	6.5	12.5	11.5	17.0	15.0	23.5	19.5	21.5	17.0	11.5	8.0
26	6.5	5.5	12.5	11.5	15.0	13.5	23.5	20.5	22.5	17.5	12.0	8.0
27	8.5	5.5	12.0	11.0	14.5	12.0	23.0	20.0	22.5	19.5	11.5	9.5
28	11.0	8.5	12.5	11.5	17.0	13.0	23.5	20.0	23.5	19.0	11.5	9.0
29	11.0	10.5	12.5	11.0	18.0	15.0	21.0	20.0	22.5	19.0	10.0	7.0
30	10.5	10.0	12.0	11.0	19.5	16.0	21.0	18.0	22.5	18.0	9.5	6.5
31	---	---	11.0	10.0	---	---	22.0	18.0	23.0	18.5	---	---
MONTH	11.0	3.0	12.5	6.5	19.5	8.5	25.0	17.0	23.5	16.0	22.5	6.5
YEAR	25.0	.0										

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO

LOCATION.--40°59'58", long 107°08'34", in SW¼NW¼ sec.15, T.12 N., R.87 W., Routt County, Hydrologic Unit 14050003, on left bank just downstream from highway bridge at Focus Ranch, 0.2 mi downstream from Spring Creek, and 12 mi east of Slater.

DRAINAGE AREA.--285 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1942 to September 1947, October 1950 to current year.

REVISED RECORDS.--WSP 1733: 1960.

GAGE.--Water-stage recorder. Datum of gage is 6,831.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Nov. 29 to Mar. 18. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 2,000 acres above station.

AVERAGE DISCHARGE.--40 years, 238 ft³/s; 172,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,780 ft³/s, May 23, 1984, gage height, 8.78 ft; maximum gage height, 8.95 ft, Apr. 25, 1974; minimum daily discharge, 8.6 ft³/s, Sept. 10, 1944.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft³/s, and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
April 18	2000	1,800	6.62	May 27	2200	1,950	6.77
May 10	2100	*2,860	*7.57				

Minimum daily discharge, 23 ft³/s, Aug. 31, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	71	65	55	35	35	69	1280	1170	189	73	23
2	83	70	60	50	35	35	78	1510	1130	176	70	26
3	74	79	60	40	35	35	112	1760	1080	162	71	62
4	71	67	60	30	35	37	124	2050	1090	147	60	48
5	96	65	60	30	35	38	110	2120	1090	135	56	36
6	101	70	60	30	35	39	117	2000	1120	125	55	30
7	78	67	60	32	35	40	133	1950	1200	119	52	27
8	69	68	60	35	35	40	166	2090	1310	113	48	30
9	66	59	60	35	35	40	243	2180	1260	110	47	29
10	64	65	65	35	35	40	293	2330	1130	107	46	27
11	65	76	65	33	35	45	413	2210	966	105	47	28
12	66	71	65	30	35	45	533	1670	858	174	71	42
13	76	74	65	30	35	45	609	1370	796	125	52	36
14	80	74	60	30	35	50	738	1200	752	99	45	31
15	68	62	60	30	35	60	911	1180	700	87	41	28
16	61	66	55	30	35	70	1040	1190	657	81	38	28
17	58	71	55	30	35	70	1160	1240	585	79	37	27
18	70	53	50	30	35	75	1380	1340	510	130	36	26
19	70	66	55	30	35	72	1360	1360	452	154	38	31
20	73	60	55	30	35	70	922	1360	410	133	35	34
21	73	72	55	30	35	73	751	1390	371	116	33	31
22	64	73	55	30	35	68	651	1380	321	138	32	35
23	73	73	50	30	35	67	599	1480	290	152	30	43
24	68	75	50	33	35	70	587	1590	267	149	28	37
25	62	68	50	35	35	84	526	1710	371	100	27	37
26	69	67	50	35	35	93	475	1770	434	84	27	35
27	73	65	55	35	35	79	516	1760	341	80	26	38
28	68	65	55	35	35	79	710	1750	276	73	28	42
29	75	65	55	35	---	70	949	1710	227	88	27	44
30	74	65	55	35	---	74	1090	1560	202	92	25	31
31	78	---	55	35	---	71	---	1310	---	95	23	---
TOTAL	2238	2042	1780	1043	980	1809	17365	50800	21366	3717	1324	1022
MEAN	72.2	68.1	57.4	33.6	35.0	58.4	579	1639	712	120	42.7	34.1
MAX	101	79	65	55	35	93	1380	2330	1310	189	73	62
MIN	58	53	50	30	35	35	69	1180	202	73	23	23
AC-FT	4440	4050	3530	2070	1940	3590	34440	100800	42380	7370	2630	2030

CAL YR 1984	TOTAL	156375	MEAN	427	MAX	3960	MIN	30	AC-FT	310200
WTR YR 1985	TOTAL	105486	MEAN	289	MAX	2330	MIN	23	AC-FT	209200

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
APR										
08...	1355	158	186	--	75	22	4.8	7.0	.4	1.2
JUN										
10...	1110	1200	99	8.5	24	7.7	1.2	2.6	.2	.00
JUL										
02...	0830	175	97	11.5	38	11	2.5	3.8	.3	.50
29...	1830	91	119	19.0	52	16	2.9	5.1	.3	.60
AUG										
29...	1015	31	180	15.0	64	19	4.0	11	.6	1.3

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
APR										
08...	73	12	2.3	.10	17	110	.15	47	.20	.150
JUN										
10...	25	2.4	2.1	.00	9.7	41	.06	132	.00	.070
JUL										
02...	40	5.0	5.3	.00	11	63	.09	30	.00	.050
29...	57	5.3	3.4	.20	13	81	.11	20	.00	.030
AUG										
29...	70	10	3.5	.00	12	100	.14	8.6	.00	.010

09255000 SLATER FORK NEAR SLATER, CO

LOCATION.--Lat 40°58'57", long 107°22'56", in SW¼NE¼ sec.21, T.12 N., R.89 W., Moffat County, Hydrologic Unit 14050003, on right bank 15 ft downstream from highway bridge, 1.0 mi upstream from mouth, and 1.5 mi south of Slater.

DRAINAGE AREA.--161 mi^2.

PERIOD OF RECORD.--May to October, December 1910, March to October 1911, and April to May 1912 (published as Slater Creek), July 1931 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 618: 1910-11. WSP 764: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,600 ft, from river-profile map. May 28, 1910, to May 25, 1912, nonrecording gage at site 1.5 mi upstream at different datum. July 9, 1931, to May 6, 1932, nonrecording gage at site 0.2 mi downstream at different datum.

REMARKS.-Estimated daily discharges: Nov. 30 to Dec. 5, Dec. 27 to Jan. 2, Jan. 4 Mar. 13, June 23, 24, June 27 to Aug. 8. Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 500 acres above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--54 years (water years 1932-85), 78.0 ft^3/s; 56,510 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,250 ft^3/s May 16, 1984, gage height, 11.78 ft (from floodmark), from rating curve extended above 1,000 ft^3/s.; no flow Aug. 2-10, 1934, Aug. 18, 25-27, 1936, Aug. 29 to Sept. 3, 1954, Aug. 3, 4, 15, 16, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 430 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 18	2400	1,040	8.67	May 26	0130	733	7.53
May 4	2400	*1,420	*9.80	June 8	2330	475	6.30

Minimum daily discharge, 9.2 ft^3/s, Sept. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	51	45	45	33	31	49	595	362	85	40	14
2	58	51	46	42	33	33	65	707	363	80	45	16
3	54	54	44	37	33	33	111	902	358	70	35	46
4	49	47	42	38	33	33	114	1110	361	65	30	30
5	81	48	42	39	33	32	82	1100	364	60	25	19
6	61	50	44	39	33	31	83	931	368	55	22	15
7	51	49	44	39	33	33	108	794	372	50	23	16
8	48	49	44	38	33	33	139	904	414	45	21	23
9	46	47	46	38	33	33	224	918	398	45	19	28
10	45	50	45	39	33	33	232	900	364	40	17	26
11	44	55	45	40	34	34	287	903	311	40	18	29
12	45	52	45	38	34	35	324	581	261	50	29	51
13	52	52	46	38	34	37	334	454	243	45	19	53
14	54	54	46	37	34	42	412	387	233	35	14	44
15	49	42	44	37	34	50	499	394	217	30	20	40
16	46	56	43	37	34	52	579	438	208	27	23	31
17	45	53	44	37	34	56	633	499	197	27	28	14
18	48	42	44	37	35	59	754	535	176	70	32	15
19	52	47	45	37	34	64	768	537	155	50	33	21
20	51	50	45	37	33	61	487	501	144	60	33	23
21	50	55	45	36	33	68	387	532	138	75	34	12
22	45	52	45	36	33	56	355	492	123	55	34	9.2
23	49	52	43	33	32	49	325	491	115	55	38	12
24	46	52	43	34	30	51	311	519	105	55	34	12
25	45	45	46	34	31	72	268	565	129	50	31	12
26	48	40	44	34	30	80	236	620	141	45	28	12
27	50	44	43	34	31	59	249	585	120	50	24	13
28	50	46	42	34	32	57	338	550	110	45	21	16
29	52	47	42	34	---	52	439	519	100	45	18	21
30	51	45	43	33	---	53	504	466	90	45	16	15
31	55	---	42	34	---	50	---	383	---	50	14	---
TOTAL	1566	1477	1367	1145	922	1462	9696	19812	7040	1599	818	688.2
MEAN	50.5	49.2	44.1	36.9	32.9	47.2	323	639	235	51.6	26.4	22.9
MAX	81	56	46	45	35	80	768	1110	414	85	45	53
MIN	44	40	42	33	30	31	49	383	90	27	14	9.2
AC-FT	3110	2930	2710	2270	1830	2900	19230	39300	13960	3170	1620	1370

CAL YR 1984 TOTAL 58420 MEAN 160 MAX 1500 MIN 20 AC-FT 115900
WTR YR 1985 TOTAL 47592.2 MEAN 130 MAX 1110 MIN 9.2 AC-FT 94400

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY

LOCATION.--Lat 41°01'42", long 107°32'55", in SE¼ NW¼ sec.8, T.12 N., R.90 W., Carbon County, Hydrologic Unit 14050003, on left bank 200 ft upstream from highway bridge, 1,000 ft upstream from Willow Creek, and 0.8 mi west of Dixon.

DRAINAGE AREA.--988 mi^2

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1910 to September 1923, March 1938 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1920(M). WDR CO-85-3: 1984 (M).

GAGE.--Water-stage recorder. Datum of gage is 6,331.22 ft above National Geodetic Vertical Datum of 1929. May 27, 1910, to Sept. 30, 1923, nonrecording gage on highway bridge 200 ft downstream at datum 2.98 ft, higher. Mar. 15, 1938, to Sept. 30, 1957, water-stage recorder at site 225 ft downstream at datum 2.98 ft, higher; Oct. 1, 1957, to June 6, 1968, at site 850 ft downstream at present datum, and June 7 to Sept. 30, 1968, at site 225 ft downstream at present datum.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation of about 9,500 acres upstream from station. One diversion upstream from station for irrigation of about 3,000 acres downstream. Transbasin diversions upstream from station.

AVERAGE DISCHARGE.--46 years (water years 1911-23, 1939-71), 514 ft^3/s, 372,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft^3/s (revised), May 16, 1984, gage height, 13.56 ft, from floodmark, from rating curve extended above 10,000 ft^3/s, some increase in peak due to dam failure; no flow Sept. 19, 20, 22, 1977, Aug. 7, 17, 18, 27-29, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,200 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 19	0800	4,970	9.24	May 26	0700	4,080	8.45
May 11	0900	*5,670	*9.28				

Minimum daily discharge during current period, 1.7 ft^3/s, Sept. 2.

REVISIONS.--The maximum discharge for water year 1984 has been revised to 13,000 ft^3/s, May 16, 1984, gage height, 13.56 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	276	3640	2620	228	114	1.8
2						---	334	4010	2520	196	67	1.7
3						---	790	4520	2350	153	59	5.1
4						---	1080	5050	2330	124	46	25
5						---	636	5160	2330	104	32	8.8
6						---	603	4770	2370	83	26	4.4
7						---	878	4570	2460	71	18	2.8
8						---	1190	4700	2740	56	12	2.5
9						---	1760	4910	2780	48	11	2.8
10						---	1840	4890	2510	35	10	2.6
11						---	2140	5260	2150	34	10	2.3
12						---	2400	4300	1850	77	18	3.0
13						---	2360	3540	1670	70	28	9.6
14						---	2470	2990	1560	53	16	6.7
15						---	2910	2890	1440	34	12	4.2
16						---	3310	2900	1340	25	9.2	3.5
17						---	3650	3020	1230	23	8.2	3.5
18						---	3930	3160	1060	55	7.9	2.8
19						---	4500	3310	904	119	8.2	12
20						---	3440	3180	784	126	7.9	61
21						---	2880	3240	713	118	6.1	64
22						---	2550	3220	598	110	5.1	63
23						---	2220	3310	485	286	4.7	83
24						---	2260	3500	380	251	4.0	92
25						---	2030	3680	447	178	3.6	83
26						669	1880	3850	812	113	3.3	80
27						427	1820	3750	630	85	2.8	76
28						316	2270	3710	437	70	2.3	78
29						299	2950	3600	316	71	2.5	85
30						229	3300	3380	259	101	2.3	85
31						276	---	2840	---	118	1.9	---
TOTAL						---	64657	118850	44075	3215	559.0	955.1
MEAN						---	2155	3834	1469	104	18.0	31.8
MAX						---	4500	5260	2780	286	114	92
MIN						---	276	2840	259	23	1.9	1.7
AC-FT						---	128200	235700	87420	6380	1110	1890

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY.--Continued

PERIOD OF RECORD.--Water years 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
MAR										
27...	1100	402	441	1.5	190	50	15	22	.7	2.7
JUN										
10...	1530	2510	107	13.0	42	13	2.3	3.6	.3	.10
JUL										
02...	1200	206	242	18.0	98	28	6.9	6.4	.3	1.3
30...	1000	80	267	18.0	110	33	7.8	11	.5	1.7
AUG										
29...	1630	2.7	412	23.0	170	45	15	21	.7	2.9

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
MAR										
27...	140	86	6.4	.10	13	280	.38	303	.20	.090
JUN										
10...	42	5.9	1.8	.10	10	62	.08	420	.00	.070
JUL										
02...	91	22	2.9	.00	12	130	.18	75	.00	.160
30...	110	22	3.4	.40	11	160	.21	34	.00	.750
AUG										
29...	170	44	5.7	.70	13	250	.34	1.8	.00	.010

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	DICAMBA (MED-IBEN) (BAN-VEL D) TOTAL (UG/L)	PICLO-RAM (TOR-DON) (AMDON) TOTAL (UG/L)
JUL									
30...	1000	80	18.0	.04	<.01	<.01	<.01	<.010	<.010
AUG									
29...	1630	2.7	23.0	<.01	<.01	<.01	<.01	<.010	<.010
SEP									
26...	1500	80	11.5	<.01	<.01	<.01	<.01	<.010	<.010

09258000 WILLOW CREEK NEAR DIXON, WY

LOCATION.--Lat 40°54'56", long 107°31'16", on line between secs. 8 and 17, T.11 N., R.90 W., Moffat County, Co., Hydrologic Unit 14050003, on right bank 6.2 mi south of Colorado-Wyoming State line, 8.0 mi upstream from mouth, and 8.3 mi south of Dixon.

DRAINAGE AREA.--24 mi^2, approximately.

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,700 ft, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 29-30, Nov. 10, 15 to Mar. 18, July 5-17. Records good except for estimated daily discharges, which are poor. One small ditch diverts water above station for irrigation. Regulation by Elk Lake, capacity, 400 acre-ft.

AVERAGE DISCHARGE.--32 years, 10.8 ft^3/s; 7,820 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 476 ft^3/s, May 10, 1984, gage height, 6.02 ft, from rating curve extended above 160 ft^3/s; Maximum gage-height, 7.08 ft, Apr.18, 1984 (backwater from ice); no flow Sept. 17-19, 1955, many days July through September 1977, and Aug. 8-16, 1982.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 70 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 25	1800	111	3.97	May 3	2030	126	4.11
Apr. 3	1830	210	4.68	May 25	2200	87	3.75
Apr. 11	1730	*228	*4.78	June 8	2200	104	3.89

Minimum daily discharge, 1.4 ft^3/s, Aug. 4, 7, 8, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	8.8	6.0	5.5	5.5	6.5	9.5	64	34	21	1.7	2.3
2	7.8	8.0	6.0	5.5	5.5	6.5	46	73	35	20	2.4	2.9
3	6.2	6.9	6.0	5.5	5.5	6.5	95	80	36	19	1.6	11
4	6.3	6.6	6.0	5.5	5.5	6.5	50	88	39	18	1.4	4.0
5	7.8	6.9	6.0	5.5	5.5	6.5	19	71	41	16	1.5	3.1
6	6.0	5.6	6.0	5.5	5.5	7.0	30	59	45	14	1.5	2.6
7	5.4	5.4	6.0	5.5	5.5	7.0	51	62	51	12	1.4	2.6
8	5.2	5.2	6.0	5.5	5.5	7.0	75	70	72	10	1.4	2.9
9	5.3	6.2	6.0	5.5	5.5	7.0	130	66	73	9.0	1.5	2.7
10	5.6	7.0	6.0	5.5	5.5	7.0	104	66	61	8.0	1.4	2.6
11	5.9	7.5	6.0	5.5	5.5	7.5	118	66	46	7.0	1.6	3.0
12	9.9	7.5	6.0	5.5	5.5	7.5	88	44	39	8.0	2.0	6.9
13	9.0	7.4	6.0	5.5	5.5	7.5	71	33	41	6.0	1.6	3.7
14	11	5.5	6.0	5.5	5.5	8.0	79	28	43	5.0	1.8	3.1
15	7.3	6.0	6.0	5.5	5.5	8.0	83	28	43	4.0	2.8	2.9
16	6.8	6.0	6.0	5.5	5.5	8.0	82	31	41	3.0	2.6	2.9
17	7.2	6.0	6.0	5.5	5.5	8.0	91	36	38	2.8	2.6	2.7
18	9.8	6.0	6.0	5.5	5.5	8.5	99	42	35	5.8	2.6	2.8
19	12	6.0	6.0	5.5	5.5	13	82	45	33	3.6	2.7	6.0
20	11	6.0	6.0	5.5	5.5	40	62	41	32	4.2	2.4	4.1
21	11	6.0	6.0	5.5	6.0	41	65	40	31	5.2	2.4	3.4
22	9.5	6.0	6.0	5.5	6.0	32	58	36	30	11	2.5	4.3
23	8.2	6.0	6.0	5.5	6.0	27	56	36	29	5.8	2.4	4.4
24	11	6.0	6.0	5.5	6.0	27	51	43	28	3.9	2.4	4.8
25	7.7	6.0	6.0	5.5	6.0	52	36	51	32	2.4	2.3	4.4
26	11	6.0	6.0	5.5	6.5	37	36	57	30	2.0	2.3	4.4
27	10	6.0	6.0	5.5	6.5	16	68	56	27	2.1	2.3	4.9
28	8.6	6.0	5.5	5.5	6.5	23	76	57	26	1.9	2.3	5.0
29	8.0	6.0	5.5	5.5	---	16	67	58	24	2.0	2.3	4.2
30	8.0	6.0	5.5	5.5	---	16	65	51	23	2.0	2.2	3.3
31	7.7	---	5.5	5.5	---	9.0	---	37	---	2.6	2.2	---
TOTAL	252.5	190.5	184.0	170.5	159.5	479.5	2042.5	1615	1158	237.3	64.1	117.9
MEAN	8.15	6.35	5.94	5.50	5.70	15.5	68.1	52.1	38.6	7.65	2.07	3.93
MAX	12	8.8	6.0	5.5	6.5	52	130	88	73	21	2.8	11
MIN	5.2	5.2	5.5	5.5	5.5	6.5	9.5	28	23	1.9	1.4	2.3
AC-FT	501	378	365	338	316	951	4050	3200	2300	471	127	234

CAL YR 1984	TOTAL	9111.2	MEAN	24.9	MAX	280	MIN	2.0	AC-FT	18070
WTR YR 1985	TOTAL	6671.3	MEAN	18.3	MAX	130	MIN	1.4	AC-FT	13230

09259050 LITTLE SNAKE RIVER BELOW BAGGS, WY

LOCATION.--Lat 41°01'43", long 107°41'14", in SE¼ NW¼ NW¼ sec.7, T.12 N., R.92 W., Carbon County, Hydrologic Unit 14050003, 0.8 mi downstream from Ledford Slough, 1.5 mi southwest of Baggs, and 3.5 mi downstream from bridge on State Highway 789 in Baggs.

PERIOD OF RECORD.--October 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV										
01...	0715	290	483	8.5	1.0	615	12.0	105	K9	--
FEB										
06...	1130	172	556	7.9	.0	605	10.8	93	--	--
MAR										
27...	0830	738	580	8.2	2.0	--	10.2	--	K8	220
APR										
24...	0630	E1700	360	8.3	5.0	610	9.4	92	<1	--
MAY										
09...	1530	5660	146	7.6	9.0	--	--	--	K4	63
25...	0700	3880	128	7.5	11.0	600	8.3	96	K390	--
JUN										
10...	1700	E2510	131	7.7	15.0	606	8.1	101	50	53
JUL										
01...	1530	287	350	7.7	21.5	611	8.0	114	K7300	--
30...	0700	118	500	8.0	18.0	605	6.7	90	500	170
AUG										
29...	1830	2.5	640	8.5	23.0	607	8.4	124	40	220

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
NOV										
01...	--	--	--	--	--	--	--	--	--	--
FEB										
06...	--	--	--	--	--	--	--	--	--	--
MAR										
27...	51	22	50	2	3.0	140	160	10	.10	10
APR										
24...	--	--	--	--	--	--	--	--	--	--
MAY										
09...	18	4.4	7.8	.4	.70	54	15	5.0	.00	11
25...	--	--	--	--	--	--	--	--	--	--
JUN										
10...	15	3.8	6.1	.4	.70	50	13	2.5	.20	9.9
JUL										
01...	--	--	--	--	--	--	--	--	--	--
30...	45	14	32	1	2.0	150	70	7.4	.20	11
AUG										
29...	52	23	63	2	3.2	210	120	18	.60	11

E ESTIMATED.
K BASED ON NON-IDEAL COLONY COUNT.

09259050 LITTLE SNAKE RIVER BELOW BAGGS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
NOV									
01...	--	--	--	<.10	--	.010	.59	.60	.080
FEB									
06...	--	--	--	.20	--	.060	.44	.50	.060
MAR									
27...	390	.53	777	.40	.60	.080	2.2	2.3	.930
APR									
24...	--	--	--	.30	--	.060	1.3	1.4	.250
MAY									
09...	94	.13	1440	.20	.10	.100	.70	.80	.140
25...	--	--	--	<.10	--	.110	.49	.60	.240
JUN									
10...	81	.11	--	<.10	.00	.030	.57	.60	.110
JUL									
01...	--	--	--	<.10	--	.080	1.1	1.2	.060
30...	270	.37	87	<.10	.00	.020	.68	.70	.040
AUG									
29...	420	.57	2.8	<.10	.00	.060	.64	.70	.020

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	DICAMBA (MED-IBEN) (BAN-VEL D) TOTAL (UG/L)	PICLO-RAM (TOR-DON) (AMDON) TOTAL (UG/L)
JUL									
30...	0700	118	18.0	.02	<.01	<.01	<.01	<.010	.020
AUG									
29...	1830	2.5	23.0	<.01	<.01	<.01	<.01	.030	.030
SEP									
26...	1620	106	11.5	<.01	<.01	<.01	<.01	<.010	.010

09260000 LITTLE SNAKE RIVER NEAR LILY, CO

LOCATION.--Lat 40°32'50", long 108°25'25", in NW¼NE¼ sec.20, T.7 N., R.98 W., Moffat County, Hydrologic Unit 14050003, on left bank 170 ft downstream from highway bridge, 6.0 mi north of Lily, and 10 mi upstream from mouth.

DRAINAGE AREA.--3,730 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June to August 1904 (published as "near Maybell"), October 1921 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1713: 1959.

GAGE.--Water-stage recorder. Elevation of gage is 5,685 ft, from river-profile map. June 9 to Aug. 14, 1904, nonrecording gage, and May 5, 1922, to Nov. 30, 1935, water-stage recorder, at site 300 ft upstream at different datums.

REMARKS.--Estimated daily discharges: Nov. 23 to Mar. 22 and Aug. 18 - 29. Records fair except those for winter period, which are poor. Diversions for irrigation of about 21,000 acres above station.

AVERAGE DISCHARGE.--64 years, 592 ft^3/s; 428,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,700 ft^3/s, May 18, 1984, gage height, 9.85 ft; maximum gage height, 11.1 ft, Feb. 13, 1962, from floodmark (backwater from ice); no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,500 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 20	1300	5,150	5.94	May 6	1630	*5,710	*6.28

Minimum daily discharge, 25 ft^3/s, Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	333	311	190	180	180	190	549	2700	2530	541	412	42
2	297	307	190	170	180	190	577	3170	2310	469	345	41
3	277	316	190	160	170	190	675	3690	2200	420	301	49
4	271	284	190	150	180	190	1060	4480	2050	373	254	36
5	284	284	190	150	190	190	1710	5010	1980	328	202	30
6	289	311	180	160	190	190	1270	5390	1980	296	175	25
7	289	280	180	170	190	190	947	5080	1990	255	148	35
8	342	280	180	180	190	190	1040	4510	2010	207	130	53
9	291	280	190	190	190	190	1300	4550	2110	181	116	43
10	254	284	200	190	190	190	1620	4760	2290	171	110	36
11	247	293	220	180	190	190	2100	4870	2160	165	94	35
12	254	264	220	170	190	190	2050	5200	1930	162	85	37
13	264	268	220	160	190	190	2310	4380	1670	134	77	35
14	261	293	210	170	190	190	2340	3310	1510	128	66	33
15	266	293	210	160	190	190	2330	2790	1350	145	61	30
16	280	311	200	170	190	250	2650	2580	1260	159	73	32
17	284	307	200	170	190	250	3140	2640	1170	147	77	30
18	271	248	210	160	190	400	3340	2570	1100	132	50	32
19	257	257	220	170	190	700	3710	2680	1040	134	45	33
20	268	268	220	160	190	1000	4430	2800	937	132	40	33
21	277	210	220	170	190	1200	3290	2750	836	136	45	34
22	279	198	190	170	190	1050	2660	2770	762	289	44	52
23	302	200	180	170	190	969	2370	2720	722	325	44	45
24	293	210	180	170	190	819	2110	2770	661	298	43	37
25	268	230	180	180	190	732	1940	2870	619	523	43	96
26	275	220	180	180	190	945	1800	3040	608	633	42	128
27	270	190	190	180	190	1320	1650	3260	655	558	42	114
28	264	180	200	180	190	1070	1560	3300	856	415	41	107
29	289	190	190	180	---	747	1740	3180	763	326	41	109
30	298	190	190	180	---	515	2260	3070	642	274	42	134
31	280	---	190	180	---	602	---	2850	---	580	52	---
TOTAL	8674	7757	6100	5310	5270	15419	60528	109740	42701	9036	3340	1576
MEAN	280	259	197	171	188	497	2018	3540	1423	291	108	52.5
MAX	342	316	220	190	190	1320	4430	5390	2530	633	412	134
MIN	247	180	180	150	170	190	549	2570	608	128	40	25
AC-FT	17200	15390	12100	10530	10450	30580	120100	217700	84700	17920	6620	3130

CAL YR 1984	TOTAL	460522	MEAN	1258	MAX	13400	MIN	160	AC-FT	913400
WTR YR 1985	TOTAL	275451	MEAN	755	MAX	5390	MIN	25	AC-FT	546400

09260000 LITTLE SNAKE RIVER NEAR LILY, CO--Continued
(National Stream-Quality Accounting Network Station)

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1975 to September 1985 (discontinued).
WATER TEMPERATURES: July 1975 to September 1985 (discontinued).

INSTRUMENTATION:--Water-quality monitor July 1975 to September 1985.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,020 microsiemens Oct. 11, 1977; minimum, 110 microsiemens June 1, 1985.
WATER TEMPERATURES: Maximum, 32.0°C Aug. 6, 1981; minimum, freezing point on many days during winter months each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum not determined; minimum, 110 microsiemens June 1.
WATER TEMPERATURES: Maximum, 30.5°C July 10; minimum, 0.0°C on many days during October to March.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
DEC										
19...	12:30	228	643	8.3	0.0	40	11.4	K6	37	240
MAR										
06...	12:50	194	357	8.1	0.0	21	8.9	K8	K15000	240
JUL										
08...	14:45	198	630	8.5	27.5	15	6.6	29	840	220
AUG										
20...	12:45	39	917	8.5	22.0	31	7.0	35	70	270

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
DEC										
19...	63	20	49	1	2.1	222	130	15	0.3	20
MAR										
06...	61	21	53	2	2.6	220	150	15	0.3	19
JUL										
08...	60	18	62	2	4.6	170	140	20	0.3	15
AUG										
20...	71	22	110	3	3.9	206	220	39	0.3	12

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
DEC										
19...	393	430	0.53	242	<0.10	0.02	0.5	0.11	0.01	<0.01
MAR										
06...	415	450	0.56	217	0.19	0.05	0.6	0.05	0.02	0.02
JUL										
08...	407	420	0.55	218	<0.10	0.03	0.5	0.09	0.03	0.03
AUG										
20...	606	600	0.82	64	<0.10	0.03	0.4	0.03	0.01	<0.01

K BASED ON NON-IDEAL COLONY COUNT.

09260000 LITTLE SNAKE RIVER NEAR LILY, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
DEC 19...	10	<1	59	0.8	<1	4	<3	2	7	8
MAR 06...	<10	<1	64	3	<1	<1	<3	2	9	<1
JUL 08...	20	1	78	<10	<1	<1	<3	1	7	2
AUG 20...	20	2	85	<0.5	<1	<1	<3	3	<3	<1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
DEC 19...	19	5	<0.1	<10	4	<1	<1	400	<6	11
MAR 06...	22	2	<0.1	<10	3	1	<1	390	<6	14
JUL 08...	22	3	<0.1	<10	<1	<1	<1	380	<6	5
AUG 20...	29	4	<0.1	<10	3	<1	<1	520	<6	4

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
OCT				
07...	11:30	280	356	269
14...	11:50	261	404	285
21...	13:35	272	723	531
28...	10:45	244	511	337
NOV				
04...	11:05	280	502	380
11...	11:40	272	889	653
18...	12:00	230	637	396
24...	14:20	210	225	128
DEC				
01...	11:15	190	198	102
09...	15:10	190	926	475
16...	14:45	200	1520	821
23...	14:30	180	97	47
30...	14:55	190	451	231
JAN				
06...	11:55	160	1410	609
13...	14:30	160	384	166
20...	11:00	160	153	66
27...	13:00	180	37	18
FEB				
03...	11:30	170	72	33
17...	11:45	190	95	49
24...	12:05	190	84	43
MAR				
02...	10:30	190	77	40
10...	13:20	190	241	124
17...	12:25	250	5130	3460
24...	10:55	814	7640	16800
31...	11:30	600	2550	4130
APR				
07...	11:55	910	8710	21400
14...	11:40	2770	8160	61000
21...	14:05	2860	2990	23100
28...	11:55	1530	1960	8100
MAY				
05...	16:00	5370	3780	54800
12...	11:30	5330	3400	48900
19...	18:05	2800	1620	12200
27...	16:40	3520	1760	16700
JUN				
02...	09:50	2260	1810	11000
10...	19:45	2400	1110	7190
16...	09:55	1250	915	3090
23...	13:45	728	1000	1970
JUL				
01...	19:45	517	517	722
07...	11:45	264	117	83
14...	11:15	130	349	122
21...	11:25	132	229	82
27...	11:45	517	4400	6140
AUG				
04...	10:35	254	1260	864
11...	09:55	98	296	78
18...	10:05	68	140	26
25...	15:45	52	90	13
SEP				
02...	11:30	35	46	4.3
08...	12:35	54	249	36
15...	13:15	30	135	11
22...	11:30	56	92	14
29...	11:25	108	490	143

09260000 LITTLE SNAKE RIVER NEAR LILY, CO--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC 19...	12:30	228	164	101	44
MAR 06...	12:50	194	335	175	85
JUL 08...	14:45	198	45	24	61
AUG 20...	12:45	39	159	17	40

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	539	641	774	605	635	---	735	292	142	436	---	1030
2	426	645	740	---	634	---	833	255	168	438	---	1010
3	549	631	738	---	637	---	933	232	186	---	---	---
4	535	635	739	668	637	---	873	217	199	---	---	---
5	---	649	764	680	639	655	726	205	208	---	---	---
6	---	650	770	693	647	652	582	202	210	---	---	---
7	571	646	763	692	646	625	601	197	209	---	777	---
8	510	640	757	685	655	611	625	198	204	610	782	1220
9	528	640	750	659	652	595	---	198	190	612	810	1210
10	552	640	729	634	631	550	---	192	177	685	814	---
11	560	608	707	622	620	492	---	190	168	701	842	1070
12	563	616	673	617	630	590	506	192	171	735	858	---
13	579	633	631	621	625	712	452	205	184	748	875	---
14	546	---	609	625	645	747	400	215	208	---	895	---
15	---	---	600	638	647	709	377	228	206	---	---	---
16	---	---	598	651	646	625	369	234	252	---	895	---
17	---	---	616	655	644	630	291	226	250	---	880	---
18	---	681	637	646	639	665	272	212	260	---	890	---
19	---	664	645	630	632	606	272	200	271	---	900	---
20	---	680	632	---	638	597	278	191	277	---	927	---
21	---	677	612	---	639	612	290	191	---	---	972	---
22	---	677	605	---	637	663	358	197	325	---	1020	---
23	---	689	619	---	637	680	404	190	333	---	1050	828
24	---	705	631	611	635	645	430	188	340	---	1080	849
25	---	---	631	612	---	688	448	178	348	---	1020	---
26	---	---	642	623	---	747	422	170	349	---	977	---
27	---	---	641	630	---	654	405	162	355	575	980	---
28	---	---	639	649	---	---	368	159	371	566	996	---
29	---	---	622	667	---	---	431	158	361	579	998	---
30	633	760	611	672	---	---	372	153	404	591	1020	---
31	639	---	603	650	---	740	---	148	---	585	1040	---

09260000 LITTLE SNAKE RIVER NEAR LILY, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.5	8.5	6.5	2.0	.0	.0	.0	.0	.0	.0	.0	.0
2	16.0	10.0	7.0	1.0	.0	.0	.5	.0	.0	.0	.0	.0
3	16.5	10.0	5.5	2.0	.0	.0	.0	.0	.0	.0	.0	.0
4	14.0	11.5	5.0	.0	.0	.0	.5	.0	.0	.0	.0	.0
5	14.0	10.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
6	16.5	9.5	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	16.0	8.5	4.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0
8	13.5	10.0	2.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0
9	14.0	10.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
10	14.0	10.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11	14.5	9.5	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	11.0	7.5	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
13	10.5	5.0	5.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0
14	10.5	6.5	4.0	.5	.0	.0	.0	.0	.0	.0	.5	.0
15	7.5	3.5	2.5	.0	.0	.0	.0	.0	.0	.0	.5	.0
16	6.5	1.0	2.0	.5	.0	.0	.0	.0	.0	.0	1.0	.0
17	5.0	2.0	3.5	.5	.0	.0	.0	.0	.0	.0	1.0	.0
18	4.5	1.0	2.5	.0	.0	.0	.0	.0	.0	.0	1.0	.0
19	4.5	1.5	1.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0
20	6.5	1.5	.5	.0	.0	.0	.0	.0	.0	.0	3.5	.0
21	8.0	2.5	1.5	.0	.5	.0	.5	.0	.0	.0	2.5	.0
22	6.0	1.0	2.0	.0	.0	.0	.0	.0	.0	.0	.5	.0
23	7.0	1.0	.0	.0	.5	.0	.0	.0	.0	.0	3.5	.0
24	6.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	7.5	.5
25	7.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	8.5	2.5
26	7.0	.5	.0	.0	.5	.5	.0	.0	.0	.0	7.0	4.0
27	5.5	1.5	.5	.0	.5	.5	.0	.0	.0	.0	4.0	.0
28	6.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	3.0	.0
29	8.0	1.5	.0	.0	.5	.0	.0	.0	---	---	2.5	.5
30	7.5	1.5	.0	.0	.0	.0	.0	.0	---	---	1.5	.5
31	5.0	2.5	---	---	.0	.0	.0	.0	---	---	6.0	.0
MONTH	16.5	.0	7.0	.0	.5	.0	.5	.0	.0	.0	8.5	.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5.5	.5	14.5	11.5	---	---	25.5	16.0	23.5	16.5	24.0	15.0
2	11.0	2.5	15.0	11.0	---	---	24.5	16.5	22.5	16.5	22.0	14.5
3	12.0	5.0	14.0	12.0	---	---	---	---	---	---	25.5	14.5
4	7.0	4.5	14.0	11.0	---	---	---	---	---	---	22.5	13.5
5	6.0	3.0	13.5	10.5	---	---	---	---	---	---	19.5	15.0
6	9.5	3.0	12.5	10.5	13.5	9.5	---	---	---	---	19.5	10.5
7	10.5	5.0	12.5	9.5	15.0	9.5	---	---	---	---	15.0	12.0
8	12.0	6.0	12.5	9.5	---	---	---	---	23.5	13.0	21.0	11.5
9	13.0	9.0	13.0	10.5	20.5	16.0	29.5	18.0	26.5	13.0	19.5	11.0
10	12.5	7.5	13.0	10.5	19.5	15.0	30.5	17.5	22.0	11.5	16.0	9.0
11	12.0	8.5	11.0	9.5	20.0	15.5	28.0	18.5	21.5	13.5	14.5	9.0
12	12.0	8.5	9.5	8.5	20.0	15.5	27.0	19.0	22.0	10.0	16.5	5.5
13	12.0	8.5	9.0	7.0	20.5	15.5	29.0	16.0	22.5	10.0	19.0	6.5
14	12.5	8.5	11.5	7.0	22.5	16.5	29.5	16.5	26.5	11.0	19.0	9.0
15	13.0	9.0	13.5	8.5	23.5	17.0	29.5	18.0	22.5	10.0	21.5	11.0
16	12.0	9.5	14.5	10.5	23.5	18.0	23.0	18.0	20.5	11.5	20.0	10.5
17	12.0	9.0	14.5	11.0	23.5	17.5	24.5	18.0	25.0	11.0	16.0	8.0
18	12.5	9.5	15.0	12.0	24.0	17.0	25.0	20.0	25.0	14.5	16.5	10.0
19	10.0	7.0	13.5	11.5	24.5	17.0	25.0	18.5	23.5	13.5	17.5	9.0
20	8.5	4.5	15.0	11.0	23.0	18.0	22.5	19.5	25.0	12.5	19.0	6.5
21	8.0	3.0	15.5	12.0	23.5	16.0	22.0	18.5	25.5	14.5	15.0	7.5
22	6.5	5.0	17.0	12.0	24.0	16.0	24.5	17.5	24.5	12.5	14.5	6.5
23	8.0	4.0	---	---	23.5	17.0	23.5	17.0	26.5	10.0	17.0	2.5
24	9.5	6.5	---	---	21.0	17.0	25.5	17.0	27.0	10.5	12.5	6.0
25	---	---	---	---	18.0	14.0	25.5	17.5	25.5	11.0	17.0	4.0
26	---	---	---	---	17.0	12.0	24.0	18.5	27.5	11.0	16.0	4.0
27	---	---	16.5	13.0	21.0	11.5	24.5	17.5	24.5	14.5	14.5	5.5
28	---	---	16.0	12.5	22.0	15.0	25.0	17.0	24.5	14.5	13.0	4.5
29	14.0	7.5	15.0	12.5	21.5	16.0	19.5	17.0	24.5	14.0	13.0	1.0
30	14.5	10.5	15.5	11.5	24.0	15.0	22.0	15.0	25.0	11.5	12.5	1.0
31	---	---	13.5	12.0	---	---	23.0	15.0	24.5	13.0	---	---
MONTH	14.5	.5	17.0	7.0	24.5	9.5	30.5	15.0	27.5	10.0	25.5	1.0
YEAR	30.5	.0										

09260050 YAMPA RIVER AT DEERLODGE PARK, CO

LOCATION.--Lat 40°27'06", long 108°31'28", in SE¼SW¼ sec.21, T.6 N., R.99 W., Moffat County, Hydrologic Unit 14050002, in Dinosaur National Monument, on left bank at Deerlodge Park, 1,250 ft upstream from Disappointment Draw, and 5.5 mi downstream from Little Snake River.

DRAINAGE AREA.--7,660 mi², approximately.

PERIOD OF RECORD.--August 1975 and January 1978 (discharge measurements only), April 1982 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,600 ft, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 8-11, Nov. 21 to Mar. 21. Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transbasin diversions, numerous storage reservoirs,and diversions for irrigation of about 86,800 acres above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,200 ft³/s, May 18, 1984, gage height, 19.13 ft; minimum daily, 179 ft³/s Sept. 10, 1982.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 10,000 ft³/s, and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 20	1700	15,100	11.37	June 10	2200	12,800	10.35
May 6	2000	*18,500	*12.88				

Minimum daily discharge, 306 ft³/s, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1150	1390	920	770	680	700	2100	11000	11200	2870	1830	306
2	1030	1420	940	730	670	700	2220	12000	10000	2650	1530	322
3	932	1370	930	640	640	700	2440	13200	9220	2390	1320	327
4	918	1290	960	580	660	700	3650	15000	9080	2150	1190	315
5	1040	1180	870	580	670	700	5460	16500	9080	2020	1090	334
6	1130	1200	830	610	670	700	4090	17900	9190	1940	980	333
7	1330	1090	830	640	670	700	3170	18300	9330	1780	869	333
8	1100	1150	830	670	670	700	3940	17000	9760	1570	746	344
9	980	1260	860	700	660	700	4820	16400	10900	1420	696	337
10	970	1260	870	700	670	700	6980	16700	12000	1300	668	337
11	950	1210	890	670	670	700	8590	16800	12100	1210	653	335
12	910	1080	890	640	700	700	8650	17200	10600	1130	639	339
13	965	1050	870	650	700	700	9170	15800	8920	1060	602	329
14	978	1200	850	640	700	700	9650	12800	8180	1100	591	353
15	990	1080	850	610	700	700	9440	11000	7780	1130	645	333
16	1050	1170	840	640	700	900	10100	10300	7530	1130	555	325
17	1070	1170	800	640	700	1100	11000	10100	7270	1010	538	328
18	1030	923	800	610	700	1800	11600	10200	7020	1000	508	326
19	991	871	820	640	700	2400	12400	10500	6550	976	454	340
20	1070	905	840	610	700	3200	14300	11000	5890	1310	418	326
21	1160	800	840	630	700	4400	13600	10800	5360	1940	414	327
22	1180	800	760	630	700	5320	12200	10600	5040	2330	417	348
23	1210	800	750	640	700	4180	11400	10800	4790	2210	399	342
24	1150	850	750	640	700	3650	10000	10600	4210	1890	378	390
25	1040	860	750	660	700	3190	9830	11000	3830	1950	375	455
26	1050	880	750	660	700	3760	9400	11700	4020	2350	375	455
27	1080	890	770	660	700	5440	8630	12600	4800	2030	360	456
28	1080	900	790	660	700	3950	8460	12900	4470	1720	344	474
29	1240	920	780	660	---	2880	8840	12800	3820	1590	332	453
30	1300	920	780	670	---	2440	10200	12800	3220	1390	321	444
31	1320	---	780	670	---	2220	---	12400	---	1650	315	---
TOTAL	33394	31889	25790	20150	19230	61330	246330	408700	225160	52196	20552	10766
MEAN	1077	1063	832	650	687	1978	8211	13180	7505	1684	663	359
MAX	1330	1420	960	770	700	5440	14300	18300	12100	2870	1830	474
MIN	910	800	750	580	640	700	2100	10100	3220	976	315	306
AC-FT	66240	63250	51150	39970	38140	121600	488600	810700	446600	103500	40760	21350

CAL YR 1984 TOTAL 1589544 MEAN 4343 MAX 32300 MIN 518 AC-FT 3153000
WTR YR 1985 TOTAL 1155487 MEAN 3166 MAX 18300 MIN 306 AC-FT 2292000

09302450 LOST CREEK NEAR BUFORD, CO

LOCATION.--Lat 40°03'01", long 107°28'06", in SE¼SE¼ sec.15, T.1 N., R.90 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 15 ft downstream from highway bridge, 540 ft upstream from mouth, 0.5 mi downstream from Long Park Creek, and 9 mi northeast of Buford.

DRAINAGE AREA.--21.5 mi^2.

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

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 7,560 ft, from topographic map. Oct. 1, 1973, to Sept. 30, 1975, at site 150 ft upstream at present datum.

REMARKS.--Estimated daily discharges: Dec. 4-15, 25-27, Jan. 2-10, 13-16, June 28 to July 3. Records good except for estimated daily discharges, which are poor. No diversion above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--21 years, 23.7 ft^3/s; 17,170 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 944 ft^3/s, May 9, 1974, gage height, 7.53 ft, from rating curve extended above 260 ft^3/s; minimum daily, 0.30 ft^3/s, Jan. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 18	2000	313	3.18	May 18	2000	388	3.42
May 5	1900	*690	*4.33				

Minimum daily discharge, 3.1 ft^3/s, Aug. 24-27, Aug. 30 to Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	7.1	4.9	5.0	6.8	4.9	6.7	212	83	11	4.0	3.1
2	7.5	6.8	5.0	5.2	8.6	4.9	7.0	274	76	9.4	4.1	4.5
3	5.6	6.9	5.3	5.4	8.3	4.6	8.7	340	71	8.1	4.0	4.9
4	6.7	5.9	5.1	5.6	6.9	4.5	9.3	409	69	6.9	3.8	3.9
5	17	6.0	5.5	5.4	5.5	5.0	9.4	468	69	6.5	3.7	3.7
6	8.3	5.9	5.7	5.4	5.2	4.6	9.6	409	68	6.3	3.6	3.4
7	6.7	5.7	6.0	5.2	5.1	4.6	11	382	68	5.8	3.4	3.3
8	6.0	5.7	5.8	5.0	4.9	4.6	14	426	70	5.6	3.4	3.5
9	5.6	6.1	5.4	5.2	4.7	4.8	21	390	68	5.5	3.4	3.3
10	5.5	6.2	5.1	5.4	4.7	5.3	31	402	67	5.4	3.4	3.2
11	5.7	6.0	5.3	5.6	4.9	5.2	44	290	62	5.1	3.5	3.4
12	6.3	5.8	5.3	5.5	5.1	4.8	64	199	49	5.0	4.6	4.6
13	6.7	5.8	5.4	5.3	5.1	4.5	84	143	44	5.7	3.8	3.7
14	7.6	5.5	5.2	5.1	5.4	4.9	100	133	41	5.0	3.5	3.5
15	6.6	4.4	5.4	5.0	5.7	5.2	136	155	38	4.7	3.5	3.7
16	6.5	5.3	5.4	5.2	5.8	5.3	179	186	34	4.5	3.4	3.9
17	6.8	4.7	5.3	5.5	5.6	5.5	229	273	32	5.1	3.3	3.6
18	6.7	4.6	5.3	5.3	5.6	5.7	261	268	29	5.4	3.3	3.5
19	6.9	4.5	5.3	5.2	5.7	5.8	205	231	27	6.1	3.5	4.0
20	7.2	4.6	5.1	5.0	5.9	6.0	123	196	26	5.5	3.4	3.8
21	7.2	4.7	5.1	4.7	5.6	6.5	93	210	26	6.0	3.2	3.9
22	7.1	4.8	4.9	4.7	4.8	6.6	82	211	24	6.0	3.3	4.8
23	7.1	4.8	5.2	4.7	4.8	6.4	66	202	22	5.5	3.2	4.6
24	6.8	4.9	5.4	5.2	4.9	6.2	61	191	21	5.3	3.1	4.5
25	6.5	5.1	5.1	5.7	5.0	7.1	55	166	24	4.8	3.1	4.1
26	7.0	5.1	5.2	6.3	4.9	7.6	48	161	26	4.9	3.1	4.0
27	6.8	5.0	5.0	6.4	4.9	7.2	51	148	23	5.0	3.1	4.0
28	6.9	5.1	5.6	6.0	4.9	7.5	78	144	19	4.7	3.2	5.2
29	7.0	5.1	5.2	5.8	---	6.8	108	130	16	5.1	3.2	4.9
30	7.0	5.0	4.9	5.6	---	7.0	156	108	13	4.9	3.1	4.1
31	7.2	---	5.1	5.7	---	6.7	---	97	---	4.4	3.1	---
TOTAL	217.0	163.1	163.5	166.3	155.3	176.3	2350.7	7554	1305	179.2	107.3	118.6
MEAN	7.00	5.44	5.27	5.36	5.55	5.69	78.4	244	43.5	5.78	3.46	3.95
MAX	17	7.1	6.0	6.4	8.6	7.6	261	468	83	11	4.6	5.2
MIN	4.5	4.4	4.9	4.7	4.7	4.5	6.7	97	13	4.4	3.1	3.1
AC-FT	430	324	324	330	308	350	4660	14980	2590	355	213	235

CAL YR 1984	TOTAL	15438.8	MEAN	42.2	MAX	768	MIN	3.0	AC-FT	30620
WTR YR 1985	TOTAL	12656.3	MEAN	34.7	MAX	468	MIN	3.1	AC-FT	25100

09303000 NORTH FORK WHITE RIVER AT BUFORD, CO

LOCATION.--Lat 39°59'15", long 107°36'50", in NW¼NW¼ sec.9, T.1 S., R.91 W., Rio Blanco County, Hydrologic Unit 14050005, on right bank 600 ft east of Buford and 1.2 mi upstream from South Fork White River.

DRAINAGE AREA.--260 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1910 to December 1915, July 1919 to December 1920, October 1951 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as North Fork White River near Buford prior to 1951 and as White River at Buford 1951-67. Records for July 1903 to December 1906 at site 6.5 mi upstream not equivalent because of inflow between sites.

REVISED RECORDS.--WSP 1343: 1912. WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 7,010 ft, from topographic map. May 24, 1910, to May 27, 1914, nonrecording gage at site 1.5 mi upstream at different datum. May 28, 1914, to Dec. 7, 1915, and July 1, 1919, to Oct. 9, 1920, nonrecording gage at present site at different datum.

REMARKS.--Estimated daily discharges: Oct. 7-21. Records good except those for estimated daily discharges, which are poor. Diversions above station for irrigation of about 900 acres above and 300 acres below station.

AVERAGE DISCHARGE.--40 years (water years 1911-15, 1920, 1952-85), 320 ft³/s; 231,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,550 ft³/s, May 24, 1984, gage height 6.76 ft; maximum gage height, 7.22 ft, Jan. 9, 1961 (backwater from ice); minimum daily discharge, 90 ft³/s, Feb. 21, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s, and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 19	0500	1,340	5.02	May 5	2300	*2,950	*5.84

Minimum daily discharge, 193 ft³/s, Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	343	301	261	230	193	214	259	1160	1500	660	351	255
2	373	289	258	208	208	216	259	1340	1460	619	343	279
3	350	289	261	223	246	218	283	1570	1480	599	328	283
4	355	282	256	232	225	214	295	1750	1460	579	324	271
5	389	276	244	251	214	219	277	2000	1450	561	319	264
6	329	283	246	250	251	218	275	2290	1460	548	315	259
7	340	281	254	259	284	216	296	2060	1540	527	303	263
8	330	282	267	255	342	217	318	2210	1750	506	298	270
9	330	287	260	246	298	220	358	2280	1890	482	297	260
10	330	278	255	236	269	237	379	2360	1870	467	295	258
11	330	284	257	229	254	239	435	2210	1690	447	298	263
12	320	282	265	224	282	234	507	1710	1550	446	340	294
13	320	280	254	228	287	228	567	1430	1490	461	302	259
14	320	285	253	232	268	227	609	1240	1490	426	297	258
15	320	273	260	241	264	232	730	1250	1470	420	290	281
16	320	272	257	239	249	232	873	1340	1440	410	282	269
17	310	275	253	239	233	233	991	1680	1360	408	289	260
18	310	266	255	246	215	235	1150	1750	1320	420	285	266
19	310	261	254	237	216	240	1180	1740	1260	461	289	277
20	310	253	257	236	217	243	895	1570	1200	427	275	270
21	310	259	255	241	222	246	756	1640	1160	433	272	299
22	307	261	254	231	215	248	668	1660	1100	432	276	321
23	307	258	254	223	213	242	599	1670	1030	418	269	301
24	307	258	288	235	210	243	603	1780	958	420	271	295
25	306	266	274	235	213	257	583	1720	1120	403	267	288
26	305	261	277	233	212	277	554	1750	1110	408	261	282
27	315	257	253	228	213	264	525	1760	946	397	250	278
28	306	269	250	228	213	261	633	1890	817	387	253	306
29	305	267	247	229	---	256	800	1920	741	392	258	296
30	306	263	245	224	---	253	876	1830	699	377	254	280
31	307	---	246	197	---	257	---	1650	---	363	256	---
TOTAL	10020	8198	7970	7245	6726	7336	17533	54210	39811	14304	9007	8305
MEAN	323	273	257	234	240	237	584	1749	1327	461	291	277
MAX	389	301	288	259	342	277	1180	2360	1890	660	351	321
MIN	305	253	244	197	193	214	259	1160	699	363	250	255
AC-FT	19870	16260	15810	14370	13340	14550	34780	107500	78970	28370	17870	16470

CAL YR 1984 TOTAL 196774 MEAN 538 MAX 3000 MIN 155 AC-FT 390300
WTR YR 1985 TOTAL 190665 MEAN 522 MAX 2360 MIN 193 AC-FT 378200

09303000 NORTH FORK WHITE RIVER AT BUFORD, CO--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
MAR									
06...	09:30	215	305	8.4	1.0	10.8	170	51	9.8
JUN									
07...	15:00	1360	172	8.3	12.0	8.6	87	26	5.3
SEP									
03...	15:15	285	287	8.3	13.5	8.3	140	44	8.5

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAR									
06...	3.4	0.1	1.0	88	77	0.5	<0.1	19	220
JUN									
07...	2.1	0.1	0.8	59	25	0.3	<0.1	16	110
SEP									
03...	2.9	0.1	1.1	87	56	0.4	<0.1	18	180

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
MAR									
06...	0.29	125	<0.01	0.10	0.02	0.18	0.2	0.01	0.01
JUN									
07...	0.15	409	<0.01	<0.10	0.03	0.17	0.2	<0.01	<0.01
SEP									
03...	0.25	141	<0.01	<0.10	0.02	0.18	0.2	0.02	<0.01

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ANTI-MONY, DIS-SOLVED (UG/L AS SB)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)
MAR											
06...	09:30	<10	<1	<1	22	<0.5	<10	<1	<1	<1	2
JUN											
07...	15:00	40	<1	<1	24	<0.5	<10	<1	<1	<1	1

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAR											
06...	14	1	<4	<1	<0.1	<1	2	<1	<1	520	10
JUN											
07...	36	7	<4	<1	<0.1	2	1	<1	<1	230	9

09303000 NORTH FORK WHITE RIVER AT BUFORD, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)
OCT				
22...	13:55	324	280	3.5
NOV				
28...	14:25	272	285	0.5
JAN				
07...	12:00	244	300	0.0
FEB				
27...	13:30	236	330	0.5
JUN				
11...	15:30	1590	160	11.0
AUG				
08...	12:15	310	278	12.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAR				
06...	09:30	215	23	13
JUN				
07...	15:00	1360	25	92
11...	15:30	1590	91	392
SEP				
03...	15:15	285	9	6.9

09303300 SOUTH FORK WHITE RIVER AT BUDGE'S RESORT, CO

LOCATION.--Lat 39°50'36", long 107°20'03", in NW¼ sec.36, T.2 S., R.89 W., Garfield County, Hydrologic Unit 14050005, on right bank 20 ft upstream from Forest Service trail bridge, 0.2 mi upstream from Wagonwheel Creek, and 0.3 mi northeast of Budge's Resort.

DRAINAGE AREA.--52.3 mi^2.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 8,980 ft, from topographic map. June 1, 1975, to July 7, 1976, at site on left bank 50 ft upstream at datum 1.3 ft, lower.

REMARKS.--Estimated daily discharge: Nov. 15 to Feb.27. Records good except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--10 years, 111 ft^3/s; 80,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,750 ft^3/s, June 25, 1983, gage height, 6.57 ft, from rating curve extended above 850 ft^3/s; minimum daily, 21 ft^3/s, Sept. 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,230 ft^3/s at 2100 June 8, gage height, 5.69 ft; minimum daily, 53 ft^3/s, Mar. 31 to Apr. 2, Apr. 6 and 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	92	68	73	64	65	53	129	356	215	112	68
2	101	95	66	74	64	63	53	143	348	207	110	77
3	98	93	64	72	64	63	55	175	379	198	105	76
4	110	91	66	72	64	65	54	212	410	191	100	73
5	126	93	68	72	64	67	54	231	455	181	97	69
6	117	87	68	72	64	61	53	233	499	173	96	67
7	112	87	68	70	64	64	53	238	572	166	92	67
8	106	87	68	68	64	66	56	266	880	159	90	67
9	103	87	68	66	64	60	59	289	973	154	89	65
10	103	92	68	65	64	59	60	303	946	149	87	65
11	106	91	68	65	64	59	65	279	819	147	92	71
12	105	86	68	65	64	57	72	240	748	154	108	78
13	105	85	68	65	64	58	77	210	752	148	91	68
14	106	85	68	65	64	61	83	195	816	134	86	65
15	98	82	68	65	64	60	99	187	813	128	82	67
16	97	82	68	65	64	59	116	190	739	124	79	66
17	97	82	68	65	64	60	125	197	709	125	77	64
18	97	82	68	65	63	57	136	208	692	139	77	68
19	97	76	68	65	63	57	142	210	622	144	77	73
20	97	76	68	65	63	55	124	215	581	145	76	69
21	97	76	68	66	63	57	111	227	577	159	76	74
22	97	76	68	68	63	60	101	235	474	145	82	78
23	97	76	68	68	63	60	93	258	419	168	75	72
24	96	76	68	69	63	57	87	295	392	167	73	71
25	99	76	68	67	63	57	80	328	436	145	72	69
26	99	72	70	66	63	57	79	350	339	151	71	67
27	95	69	72	66	63	56	76	394	277	134	71	69
28	97	68	72	64	64	55	84	436	254	131	71	76
29	95	68	73	64	---	55	100	455	243	136	71	70
30	93	68	73	64	---	54	107	455	228	126	69	66
31	92	---	73	64	---	53	---	407	---	120	68	---
TOTAL	3134	2456	2125	2080	1782	1837	2507	8190	16748	4763	2622	2095
MEAN	101	81.9	68.5	67.1	63.6	59.3	83.6	264	558	154	84.6	69.8
MAX	126	95	73	74	64	67	142	455	973	215	112	78
MIN	92	68	64	64	63	53	53	129	228	120	68	64
AC-FT	6220	4870	4210	4130	3530	3640	4970	16240	33220	9450	5200	4160

CAL YR 1984 TOTAL 58058 MEAN 159 MAX 1070 MIN 37 AC-FT 115200
WTR YR 1985 TOTAL 50339 MEAN 138 MAX 973 MIN 53 AC-FT 99850

09303300 SOUTH FORK WHITE RIVER AT BUDGE'S RESORT,CO--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT										
09...	13:50	101	152	8.2	7.0	9.3	--	77	21	5.9
FEB										
28...	10:45	64	137	8.6	1.5	10.8	--	71	19	5.7
JUN										
07...	12:15	481	141	8.2	8.5	8.5	0.43	75	20	6.1

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT									
09...	1.7	0.1	1.0	73	4.1	0.4	<0.1	16	94
FEB									
28...	2.0	0.1	1.0	68	4.2	0.3	<0.1	19	92
JUN									
07...	1.0	0	0.7	69	3.5	0.4	<0.1	9.3	83

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
OCT									
09...	0.13	26	<0.01	<0.10	0.01	--	<0.2	0.02	0.01
FEB									
28...	0.13	16	<0.01	<0.10	0.06	0.54	0.6	0.01	0.02
JUN									
07...	0.11	107	<0.01	0.13	0.03	0.27	0.3	<0.01	<0.01

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ANTI-MONY, DIS-SOLVED (UG/L AS SB)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)
OCT											
09...	13:50	--	--	<1	11	--	<10	<1	<10	--	3
JUN											
07...	12:15	30	<1	<1	11	<0.5	<10	<1	<1	<1	1

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT											
09...	36	4	--	4	<0.1	<1	2	<1	<1	81	7
JUN											
07...	20	11	<4	<1	<0.1	<1	2	<1	<1	49	15

09303300 SOUTH FORK WHITE RIVER AT BUDGE'S RESORT,CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)
DEC				
03...	10:05	64	133	0.0
FEB				
21...	14:00	147	256	0.0
MAY				
01...	10:00	128	156	3.0
AUG				
13...	13:25	89	151	12.0
SEP				
12...	13:00	78	156	8.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
FEB				
28...	10:45	64	0	--
JUN				
07...	12:15	481	11	14

09303320 WAGONWHEEL CREEK AT BUDGE'S RESORT, CO

LOCATION.--Lat 39°50'40", long 107°20'10", in SW¼SW¼ sec.25, T.2 S., R.89 W., Garfield County, Hydrologic Unit 14050005, on right bank 60 ft upstream from mouth and confluence of South Fork White River, about 800 ft downstream from private road bridge, and 0.2 mi north-northeast of Budge's Resort.

DRAINAGE AREA.--7.36 mi^2.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 8,980 ft, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 9 to Apr. 30, June 10 to Aug. 13. Records fair except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--10 years, 10.8 ft^3/s; 7,820 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 336 ft^3/s, June 8, 1985, gage height 4.64 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 55 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 8	1800	336	4.64	No other peak greater than base discharge.			

No flow, Feb. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	3.6	1.0	.50	.05	.05	.70	3.6	120	24	12	1.4
2	5.2	3.3	1.0	.50	.05	.05	.90	3.9	100	23	12	1.4
3	4.8	2.9	1.0	.50	.05	.05	1.0	6.5	118	21	11	1.7
4	7.5	2.6	1.0	.50	.05	.05	1.2	13	140	20	11	1.5
5	7.0	2.5	1.0	.40	.05	.05	1.4	21	167	19	11	1.2
6	6.8	2.6	1.0	.40	.05	.05	1.4	27	177	18	11	1.0
7	6.8	2.7	1.0	.40	.01	.05	1.6	35	176	17	10	.90
8	7.0	2.5	1.0	.40	.01	.05	1.6	42	237	16	10	.91
9	6.9	2.3	1.0	.40	.00	.05	1.8	48	210	15	10	.71
10	7.0	2.0	1.0	.40	.01	.05	1.9	52	200	14	10	.68
11	6.8	2.0	1.0	.40	.01	.05	2.0	54	190	14	9.9	.66
12	7.9	1.8	.80	.40	.01	.10	2.2	55	170	14	9.6	1.5
13	7.5	1.8	.80	.40	.01	.10	2.3	52	150	13	9.7	1.1
14	7.3	1.8	.80	.40	.01	.10	2.5	47	130	13	9.0	.64
15	6.8	1.8	.80	.40	.01	.10	2.8	40	125	14	8.0	.55
16	6.2	1.6	.80	.30	.01	.10	3.0	38	105	14	6.8	.56
17	5.1	1.6	.80	.30	.01	.10	3.2	38	90	15	6.3	.49
18	4.8	1.6	.80	.30	.01	.10	3.5	38	80	16	5.9	.43
19	5.1	1.6	.60	.30	.01	.20	3.8	37	72	15	5.7	1.4
20	5.8	1.6	.60	.30	.01	.20	4.0	37	64	16	5.0	.75
21	6.1	1.4	.60	.30	.01	.20	3.8	39	58	15	3.5	.70
22	5.3	1.4	.60	.20	.01	.20	3.7	42	50	15	3.9	.65
23	4.8	1.4	.60	.20	.01	.20	3.6	48	45	16	2.9	.45
24	4.7	1.4	.60	.20	.05	.20	3.5	60	40	15	2.2	.39
25	4.8	1.4	.50	.20	.05	.30	3.3	90	37	16	2.0	.36
26	4.6	1.2	.50	.10	.05	.30	3.1	118	34	17	2.0	.34
27	4.6	1.2	.40	.10	.05	.50	3.0	146	30	15	2.0	.41
28	4.7	1.2	.40	.10	.05	.50	3.2	171	29	14	1.8	.39
29	3.8	1.2	.40	.10	---	.50	3.4	185	27	13	1.8	.35
30	3.8	1.2	.40	.10	---	.50	3.5	174	25	12	1.8	.37
31	3.5	---	.50	.10	---	.70	---	154	---	13	1.6	---
TOTAL	177.4	57.2	23.30	9.60	.71	5.75	76.90	1915.0	3196	492	209.4	23.89
MEAN	5.72	1.91	.75	.31	.02	.19	2.56	61.8	107	15.9	6.75	.80
MAX	7.9	3.6	1.0	.50	.05	.70	4.0	185	237	24	12	1.7
MIN	3.5	1.2	.40	.10	.00	.05	.70	3.6	25	12	1.6	.34
AC-FT	352	113	46	19	1.4	11	153	3800	6340	976	415	47

CAL YR 1984	TOTAL	6298.35	MEAN	17.2	MAX	240	MIN	.00	AC-FT	12490
WTR YR 1985	TOTAL	6187.15	MEAN	17.0	MAX	237	MIN	.00	AC-FT	12270

09303320 WAGONWHEEL CREEK AT BUDGES RESORT, CO--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT										
09...	14:50	7.0	290	--	5.5	9.2	--	180	47	14
FEB										
28...	11:45	E0.01	290	8.4	0.0	9.8	--	170	44	15
JUN										
07...	11:10	155	244	8.4	5.0	10.2	0.36	140	38	11

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT									
09...	0.5	0	0.4	166	2.3	0.6	<0.1	2.5	170
FEB									
28...	0.5	0	0.5	162	2.5	0.2	<0.1	3.6	160
JUN									
07...	0.4	0	0.4	129	2.4	0.4	<0.1	2.6	130

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
OCT									
09...	0.23	3.1	<0.01	<0.10	0.01	--	<0.2	0.01	<0.01
FEB									
28...	0.22	--	<0.01	0.37	0.03	0.57	0.6	0.01	<0.01
JUN									
07...	0.18	56	<0.01	0.16	0.02	0.18	0.2	<0.01	<0.01

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ANTI-MONY, DIS-SOLVED (UG/L AS SB)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)
OCT											
09...	14:50	--	--	<1	45	--	<10	<1	<10	--	3
JUN											
07...	11:10	20	<1	<1	32	<0.5	<10	<1	<1	<1	2

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT											
09...	<3	4	--	<1	<0.1	<1	2	<1	<1	30	5
JUN											
07...	9	9	<4	<1	<0.1	<1	2	<1	<1	24	13

E ESTIMATED.

09303320 WAGONWHEEL CREEK AT BUDGES RESORT, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)
OCT				
09...	14:50	7.0	290	5.5
MAY				
01...	10:32	3.6	290	1.0
AUG				
13...	14:50	9.7	289	10.5
SEP				
12...	13:30	1.0	288	7.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
FEB				
28...	11:45	E0.01	1	--
JUN				
07...	11:10	155	12	5.0

E ESTIMATED.

09303400 SOUTH FORK WHITE RIVER NEAR BUDGE'S RESORT, CO

LOCATION.--Lat 39°51'51", long 107°32'00", in NW¼SE¼ sec.19, T.2 S., R.90 W., Rio Blanco County, Hydrologic Unit 14050005, on right bank on downstream side of Forest Service bridge, 300 ft upstream from South Fork Campground, 10 mi above mouth, and about 10.5 mi southeast of Buford.

DRAINAGE AREA.--128 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1976 to current year.

REVISED RECORDS.--WDR CO-79-3: 1976(M), 1977, 78(P), 1978.

GAGE.--Water-stage recorder. Elevation of gage is 7,600 ft, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 13 to Feb. 19 and Aug 1-9. Records good except for estimated daily discharges, which are fair. No regulation or diversions above station.

AVERAGE DISCHARGE.--9 years, 217 ft^3/s; 157,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,770 ft^3/s, June 22, 1983, gage height, 6.18 ft; minimum daily, 40 ft^3/s, Feb. 1 to Mar. 10, 1980, Dec. 30, 1980, Jan. 10, 15, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 10	2200	906	4.16	June 8	2400	*2,390	*4.95

Minimum daily discharge, 90 ft^3/s, Jan. 11-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	144	130	95	100	114	124	336	950	470	230	142
2	167	137	130	95	100	107	122	367	936	457	210	144
3	158	142	120	95	100	103	130	431	1010	436	195	147
4	175	138	120	95	100	103	131	531	1060	417	180	149
5	212	136	115	95	100	116	127	611	1160	404	165	149
6	207	135	120	95	100	104	125	632	1220	383	150	149
7	200	133	120	95	100	110	131	628	1300	367	140	150
8	189	132	120	95	100	114	141	692	1500	357	130	152
9	183	128	120	95	105	104	155	758	2000	348	120	152
10	180	134	120	95	105	107	158	791	1840	338	112	152
11	179	137	110	90	105	108	177	742	1720	325	112	152
12	185	128	110	90	105	109	197	650	1540	331	115	152
13	182	126	115	90	105	110	211	566	1510	322	115	151
14	189	128	115	90	105	111	231	513	1510	298	117	150
15	179	128	115	90	110	111	261	485	1530	280	117	150
16	174	125	115	90	110	114	286	485	1540	273	118	150
17	175	125	115	90	110	114	311	495	1360	267	118	152
18	174	120	115	90	110	117	329	525	1380	290	119	152
19	172	125	115	90	110	117	336	534	1260	288	121	152
20	167	125	110	90	120	119	318	541	1140	293	121	152
21	173	125	110	90	115	120	294	594	1130	315	123	153
22	164	125	110	90	109	125	271	630	1030	301	124	153
23	162	130	110	90	111	124	257	688	963	312	127	153
24	158	133	110	90	114	121	250	802	850	341	126	153
25	159	132	110	90	103	125	245	897	913	297	129	155
26	151	132	105	95	99	128	232	964	783	301	132	156
27	155	132	100	95	107	127	232	1120	646	284	135	157
28	156	132	100	95	108	131	259	1230	572	268	135	157
29	150	132	100	95	---	129	290	1250	539	277	138	157
30	147	130	100	100	---	130	310	1220	513	260	138	157
31	147	---	100	100	---	120	---	1110	---	249	141	---
TOTAL	5321	3929	3505	2880	2966	3592	6641	21818	35405	10149	4253	4550
MEAN	172	131	113	92.9	106	116	221	704	1180	327	137	152
MAX	212	144	130	100	120	131	336	1250	2000	470	230	157
MIN	147	120	100	90	99	103	122	336	513	249	112	142
AC-FT	10550	7790	6950	5710	5880	7120	13170	43280	70230	20130	8440	9020

CAL YR 1984 TOTAL 113818 MEAN 311 MAX 2510 MIN 60 AC-FT 225800
WTR YR 1985 TOTAL 105009 MEAN 288 MAX 2000 MIN 90 AC-FT 208300

09303400 SOUTH FORK WHITE RIVER NEAR BUDGES RESORT, CO--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
MAR										
21...	09:30	115	193	8.3	0.5	10.6	--	100	29	7.7
JUN										
11...	09:45	1700	163	8.4	3.5	9.9	0.34	90	26	6.0
SEP										
03...	10:30	146	190	8.0	9.5	9.0	--	100	29	7.7

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAR									
21...	2.1	0.1	0.9	112	4.8	0.7	0.1	15	130
JUN									
11...	1.0	0	0.5	81	3.9	0.2	<0.1	7.8	94
SEP									
03...	1.9	0.1	0.9	97	4.3	0.6	<0.1	15	120

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
MAR									
21...	0.17	40	<0.01	<0.10	<0.01	--	0.3	0.02	<0.01
JUN									
11...	0.13	432	<0.01	0.14	0.03	0.17	0.2	<0.01	<0.01
SEP									
03...	0.16	46	<0.01	<0.10	0.02	0.18	0.2	<0.01	0.02

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ANTI-MONY, DIS-SOLVED (UG/L AS SB)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)
JUN											
11...	09:45	40	<1	<1	19	<0.5	<10	<1	<1	2	3
SEP											
03...	10:30	<10	<1	<1	20	<0.5	<10	<1	1	1	1

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
JUN											
11...	38	<1	<4	3	0.1	<1	<1	<1	<1	51	10
SEP											
03...	12	<1	<4	4	0.1	<1	1	<1	<1	110	12

09303400 SOUTH FORK WHITE RIVER NEAR BUDGES RESORT, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)
OCT					FEB				
17...	14:00	175	200	1.5	21...	11:00	116	193	0.0
NOV					MAY				
13...	11:40	132	195	2.0	17...	12:00	482	231	5.5
JAN					JUL				
23...	11:20	89	--	0.0	31...	10:30	254	198	9.5

SUSPENDED SEDIMENT DICSCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAR					SEP				
21...	09:30	115	8	2.5	03...	10:30	146	9	3.5
JUN									
11...	09:45	1700	76	349					

09303500 SOUTH FORK WHITE RIVER NEAR BUFORD, CO

LOCATION.--Lat 39°55'18", long 107°33'04", in NW¼SE¼ sec.36, T.1 S., R.91 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank at upstream side of county bridge, 10 ft downstream from Peltier Creek, and 5.6 mi southeast of Buford.

DRAINAGE AREA.--157 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1903 to October 1906, June 1910 to December 1915, October 1942 to September 1947, April 1967 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1057: 1944-45, WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 7,480 ft, from topographic map. July 26, 1903, to Oct. 31, 1906, nonrecording gage, and Oct. 1, 1942, to Sept. 30, 1947, water-stage recorder, at site 60 ft upstream at different datums. Records for 1919-20 at site 6.0 mi downstream not equivalent.

REMARKS.--Estimated daily discharges: Nov. 16, 18-24, 27, 28, Dec. 1-5, 14, 15, 17, 18, 22-25, 30, Jan. 2, 19-27, and Mar. 5. Records good except for estimated daily discharges, which are fair. Diversions for irrigation of about 600 acres of hay meadows above station.

AVERAGE DISCHARGE.--31 years (water years 1904-06, 1911-15, 1943-47, 1968-85), 269 ft^3/s; 194,900 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,620 ft^3/s, June 24, 1983, gage height, 7.73 ft; maximum gage height 8.2 ft, June 17, 1906, site and datum then in use; minimum discharge recorded, 56 ft^3/s, Dec. 18, 1946, gage height, 1.01 ft, site and datum then in use, but may have been less during periods of no gage-height record.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 30	0900	1,700	5.78	June 9	0600	*3.040	*7.27

Minimum daily discharge, 119 ft^3/s, Mar. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	196	190	160	154	130	136	137	396	1310	590	268	171
2	211	187	160	145	122	132	136	431	1190	565	264	179
3	201	188	150	138	125	123	144	514	1330	545	258	184
4	214	184	150	126	137	119	147	634	1410	521	250	179
5	257	195	150	143	144	168	142	750	1540	495	242	173
6	246	187	145	147	153	129	141	777	1620	464	237	169
7	236	186	139	157	161	130	146	772	1640	437	229	167
8	225	185	159	168	171	129	157	850	2150	424	220	169
9	219	185	168	165	183	121	173	925	2750	402	216	165
10	217	190	173	151	166	124	179	974	2560	392	210	164
11	217	185	170	152	156	126	197	950	2400	366	212	168
12	218	185	162	128	168	125	219	836	2050	391	238	187
13	217	182	158	125	179	123	232	730	1950	377	219	173
14	217	183	170	126	181	126	247	647	1940	344	205	165
15	210	184	170	130	189	126	275	612	1990	327	200	168
16	206	180	174	131	199	124	311	603	1930	315	198	169
17	206	183	168	128	202	124	337	620	1710	315	198	163
18	209	180	160	138	120	126	367	657	1690	338	195	165
19	205	180	157	150	122	126	394	667	1540	343	198	179
20	205	180	160	150	130	128	360	674	1400	337	195	170
21	206	175	164	160	128	133	328	702	1350	352	191	178
22	201	175	160	160	138	132	293	765	1250	340	195	187
23	200	175	160	170	126	132	272	819	1100	349	191	180
24	196	175	160	170	146	134	269	959	981	401	185	175
25	193	172	160	170	128	140	261	1160	1030	334	182	171
26	197	164	160	170	122	145	251	1220	971	338	179	169
27	198	170	171	170	145	133	248	1400	788	323	179	171
28	199	170	167	171	125	145	278	1530	696	298	178	181
29	192	166	156	164	---	139	318	1620	656	314	176	177
30	190	166	150	152	---	139	347	1650	625	295	175	168
31	190	---	155	145	---	136	---	1540	---	282	172	---
TOTAL	6494	5407	4966	4654	4196	4073	7306	27384	45547	11914	6455	5184
MEAN	209	180	160	150	150	131	244	883	1518	384	208	173
MAX	257	195	174	171	202	168	394	1650	2750	590	268	187
MIN	190	164	139	125	120	119	136	396	625	282	172	163
AC-FT	12880	10720	9850	9230	8320	8080	14490	54320	90340	23630	12800	10280

CAL YR 1984	TOTAL	145716	MEAN	398	MAX	2240	MIN	101	AC-FT	289000
WTR YR 1985	TOTAL	133580	MEAN	366	MAX	2750	MIN	119	AC-FT	265000

09303500 SOUTH FORK WHITE RIVER NEAR BUFORD, CO--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
MAR										
21...	10:30	125	237	8.2	1.0	--	--	130	38	8.7
JUN										
11...	12:30	2430	173	8.2	5.0	9.7	0.65	100	30	6.6
SEP										
03...	12:30	181	226	8.0	10.0	9.1	--	120	36	8.4

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAR									
21...	2.2	0.1	0.9	104	18	0.8	0.1	16	150
JUN									
11...	0.9	0	0.5	89	5.8	0.3	0.1	7.5	110
SEP									
03...	2.0	0.1	0.9	106	14	0.5	<0.1	16	140

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
MAR									
21...	0.2	50	<0.01	<0.10	<0.01	--	0.3	0.01	0.01
JUN									
11...	0.14	691	<0.01	0.15	0.03	0.47	0.5	<0.01	<0.01
SEP									
03...	0.19	69	<0.01	<0.10	0.02	0.18	0.2	<0.01	0.01

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ANTI-MONY, DIS-SOLVED (UG/L AS SB)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)
JUN											
11...	12:30	70	<1	<1	21	<0.5	<10	<1	<1	2	5
SEP											
03...	12:30	10	<1	<1	23	<0.5	<10	<1	1	2	1

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
JUN											
11...	36	5	<4	3	0.2	<1	<1	<1	<1	68	<3
SEP											
03...	17	<1	5	6	0.1	<1	2	<1	<1	170	9

09303500 SOUTH FORK WHITE RIVER NEAR BUFORD, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)
OCT					MAY				
17...	15:25	196	240	2.5	17...	14:10	647	250	7.0
NOV					JUL				
13...	13:10	185	230	3.0	31...	11:30	288	237	10.0
FEB									
21...	13:00	132	227	0.0					

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAR					SEP				
21...	10:30	125	80	27	03...	12:30	181	4	2.0
JUN									
11...	12:30	2430	40	262					

09304000 SOUTH FORK WHITE RIVER AT BUFORD, CO

LOCATION.--Lat 39°58'28", long 107°37'30", in NW¼NE¼ sec.17, T.1 S., R.91 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 30 ft downstream from highway bridge, 0.8 mi upstream from mouth, and 1.0 mi south of Buford.

DRAINAGE AREA.--177 mi^2.

PERIOD OF RECORD.--Streamflow records, July 1919 to December 1920 (monthly discharge only, published in WSP 1313), October 1951 to current year. Water-quality data available, October 1976 to February 1978. Sediment data available, October 1976 to February 1978.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,970 ft, from topographic map. Prior to Nov. 30, 1920, nonrecording gage at site 200 ft downstream, at different datum. Oct. 1951 to Apr. 1981, at site 500 ft downstream, at different datum.

REMARKS.--Estimated daily discharges: Dec. 6-14, 16-31, Jan. 5-11, 13-21, 25-28, Feb. 8-17, 24 to Mar. 5, Apr. 5-9, and Apr. 26 to May 16. Records fair except for estimated daily discharges, which are poor. Diversions above station for irrigation of about 1,100 acres above station and a small area below. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--35 years, 261 ft^3/s; 189,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,150 ft^3/s, June 26, 1983; gage height, 6.27 ft; maximum gage height, 7.07 ft, June 30, 1957, site and datum then in use, minimum daily discharge, 47 ft^3/s, Jan. 15, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 30	0500	1,650	4.68	June 9	0700	*2,590	*5.44

Minimum daily discharge, 120 ft^3/s, Feb. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	213	230	190	143	131	138	159	400	1280	604	275	175
2	228	223	193	149	131	140	161	450	1200	577	272	175
3	221	230	200	151	131	140	169	500	1310	556	266	181
4	230	219	191	146	131	142	175	560	1390	535	256	176
5	269	218	189	138	131	142	178	640	1540	514	248	171
6	257	226	180	138	130	144	184	680	1630	485	246	168
7	251	220	180	138	129	135	190	720	1700	460	240	166
8	243	217	170	138	125	136	196	780	2190	449	234	168
9	241	222	170	138	120	137	202	840	2420	428	230	164
10	239	214	170	138	124	139	202	880	2320	419	223	163
11	240	219	160	138	128	143	209	840	2140	390	224	167
12	245	214	160	139	130	142	221	760	1810	410	244	182
13	246	212	160	138	134	137	231	700	1710	398	226	166
14	246	214	160	138	134	140	246	610	1700	362	211	167
15	245	204	162	128	138	144	269	560	1770	341	207	172
16	242	201	150	125	138	144	324	580	1710	325	203	171
17	242	214	150	125	140	147	383	641	1520	327	200	165
18	249	198	150	125	141	147	406	677	1510	356	199	167
19	246	196	150	125	143	146	439	698	1390	359	200	176
20	244	195	150	125	150	151	402	704	1270	348	195	167
21	249	198	145	125	141	158	378	754	1230	363	191	174
22	243	204	145	129	134	156	347	814	1160	354	195	181
23	240	196	145	127	134	152	323	869	1030	366	192	174
24	238	199	145	132	134	155	319	989	937	409	186	172
25	231	200	150	132	134	159	314	1030	990	347	185	167
26	235	197	145	132	136	161	280	1140	940	345	182	164
27	243	193	145	132	136	159	295	1320	780	335	182	165
28	231	196	145	132	138	156	315	1440	700	310	182	173
29	233	200	145	131	---	160	340	1550	663	329	178	168
30	234	199	145	131	---	157	370	1610	634	306	177	162
31	233	---	145	131	---	159	---	1520	---	293	174	---
TOTAL	7447	6268	4985	4157	3746	4566	8227	26256	42574	12400	6623	5107
MEAN	240	209	161	134	134	147	274	847	1419	400	214	170
MAX	269	230	200	151	150	161	439	1610	2420	604	275	182
MIN	213	193	145	125	120	135	159	400	634	293	174	162
AC-FT	14770	12430	9890	8250	7430	9060	16320	52080	84450	24600	13140	10130

CAL YR 1984 TOTAL 132184 MEAN 361 MAX 2270 MIN 108 AC-FT 262200
WTR YR 1985 TOTAL 132356 MEAN 363 MAX 2420 MIN 120 AC-FT 262500

09304000 SOUTH FORK WHITE RIVER AT BUFORD, CO--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
MAR										
06...	10:00	136	246	8.5	1.0	10.4	--	140	42	9.3
JUN										
11...	13:30	2140	186	8.3	7.5	9.3	0.44	110	31	6.7
SEP										
03...	14:00	182	258	8.4	14.5	8.6	--	140	40	9.0

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAR									
06...	2.5	0.1	0.8	106	29	0.7	<0.1	17	170
JUN									
11...	1.1	0	0.5	90	7.3	0.3	<0.1	7.9	110
SEP									
03...	2.2	0.1	1.0	110	24	0.6	<0.1	15	160

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
MAR									
06...	0.22	61	<0.01	<0.10	0.02	0.08	0.1	0.01	0.01
JUN									
11...	0.15	630	<0.01	0.14	0.03	0.27	0.3	<0.01	<0.01
SEP									
03...	0.21	78	<0.01	<0.10	0.01	--	<0.2	<0.01	<0.01

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ANTI-MONY, DIS-SOLVED (UG/L AS SB)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)
MAR											
06...	10:00	<10	<1	<1	19	<0.5	<10	<1	<1	<1	<1
JUN											
11...	13:30	40	<1	<1	22	<0.5	<10	7	<1	2	3

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAR											
06...	14	<1	<4	<1	<0.1	<1	<1	<1	<1	250	8
JUN											
11...	37	6	<4	5	0.1	<1	2	<1	<1	79	10

09304000 SOUTH FORK WHITE RIVER AT BUFORD, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)
OCT					MAY				
22...	12:10	243	255	3.0	17...	15:30	594	261	8.5
NOV					JUL				
28...	15:20	205	255	0.5	31...	13:15	293	273	14.0
FEB									
21...	14:00	147	256	0.0					

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAR					SEP				
06...	10:00	136	4	1.5	03...	14:00	182	4	2.0

09304200 WHITE RIVER ABOVE COAL CREEK, NEAR MEEKER, CO

LOCATION.--Lat 40°00'18", long 107°49'29", in NW¼NW¼ sec.3, T.1 S., R.93 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 40 ft downstream from county road bridge, 2.3 mi upstream from Coal Creek, and 5.0 mi southeast of Meeker.

DRAINAGE AREA.--648 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,400 ft, from topographic map. Oct. 1, 1961, to Sept. 30, 1976, at site 76 ft upstream at datum 2.00 ft, higher.

REMARKS.--Estimated daily discharges: Oct. 25 to Nov. 4, Nov. 8, 10, 11, 14-16, Nov. 28 to Dec. 6, Dec. 8 to Mar. 20, Apr. 9-18, and July 22-28. Records fair except for estimated daily discharges, which are poor. Diversions above station for irrigation of about 8,000 acres above station and about 4,000 acres below.

AVERAGE DISCHARGE.--24 years, 581 ft³/s; 420,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,740 ft³/s, June 26, 1983, gage height, 7.07 ft; minimum daily, 6.5 ft³/s, July 19-21, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s, and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 19	0100	2,060	5.04	May 29	0400	3,880	6.47
May 10	2200	3,790	6.39	June 10	0700	*4,530	*6.93

Minimum daily discharge, 196 ft³/s, Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	607	510	420	360	280	330	431	1570	2850	923	591	231
2	649	505	420	360	280	330	456	1830	2500	880	607	260
3	631	510	410	365	290	340	487	2200	2510	848	579	256
4	643	476	410	340	300	340	501	2660	2510	822	594	233
5	769	525	410	340	330	350	467	3000	2530	810	558	196
6	709	524	410	340	340	360	467	3070	2660	728	591	198
7	678	538	412	340	360	380	493	2950	2670	672	590	207
8	649	510	410	340	340	400	544	3200	3150	625	554	210
9	644	514	400	320	330	460	620	3370	4020	578	557	200
10	638	490	400	320	330	500	700	3480	4340	605	566	203
11	633	500	400	320	340	620	800	3420	4030	572	540	216
12	637	510	400	300	330	640	890	2930	3210	579	622	252
13	638	465	400	300	320	560	1000	2480	2830	606	540	227
14	628	450	410	300	310	410	1100	2200	2820	578	509	220
15	605	460	410	300	320	380	1230	2120	2880	563	496	241
16	584	450	400	320	320	390	1400	2130	2750	559	473	263
17	573	431	400	320	320	400	1700	2350	2450	553	430	259
18	573	440	400	320	320	420	1650	2470	2390	599	397	291
19	557	440	400	320	320	420	1860	2530	2190	644	400	361
20	544	443	400	320	320	420	1670	2450	1990	598	391	398
21	535	448	380	320	330	420	1430	2540	1940	596	378	432
22	521	450	380	320	320	416	1320	2680	1810	680	374	493
23	502	450	380	320	310	437	1250	2500	1730	700	354	539
24	493	411	380	320	320	458	1170	2940	1520	740	343	574
25	500	411	380	310	320	478	1150	3150	1680	700	331	575
26	510	420	380	310	330	477	1130	3200	1680	680	307	582
27	500	427	380	310	330	473	1220	3410	1380	650	248	509
28	490	430	380	280	330	459	1150	3580	1180	620	226	521
29	500	430	380	280	---	450	1370	3600	1050	596	230	555
30	500	420	380	280	---	439	1350	3330	986	589	231	544
31	505	---	380	270	---	436	---	2990	---	583	224	---
TOTAL	18145	13988	12302	9865	8990	13393	31006	86330	72236	20476	13831	10246
MEAN	585	466	397	318	321	432	1034	2785	2408	661	446	342
MAX	769	538	420	365	360	640	1860	3600	4340	923	622	582
MIN	490	411	380	270	280	330	431	1570	986	553	224	196
AC-FT	35990	27750	24400	19570	17830	26570	61500	171200	143300	40610	27430	20320

CAL YR 1984	TOTAL	358838	MEAN	980	MAX	5260	MIN	250	AC-FT	711800
WTR YR 1985	TOTAL	310808	MEAN	852	MAX	4340	MIN	196	AC-FT	616500

09304500 WHITE RIVER NEAR MEEKER, CO

LOCATION.--Lat 40°02'01", long 107°51'42", in NE¼ sec.30, T.1 N., R.93 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 1.0 mi upstream from Curtis Creek and 2.5 mi east of Meeker.

DRAINAGE AREA.--755 mi².

PERIOD OF RECORD.--June 1901 to December 1906, October 1909 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "at Meeker" 1901-13.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,300 ft, from topographic map. Prior to Oct. 31, 1906, and May 7 to Aug. 13, 1910, nonrecording gage, and Aug. 14, 1910, to Oct. 19, 1913, water-stage recorder, at site 2.5 mi downstream, at different datum. Oct. 20, 1913, to Sept. 30, 1971, water-stage recorder at present site, at datum 3.00 ft, higher, prior to Oct. 1, 1933, and at datum 2.00 ft, higher, thereafter.

REMARKS.--Estimated daily discharges: Dec. 12-19 and Dec. 21 to Mar. 13. Records good except those for winter period, which are poor. Diversions above station for irrigation of about 12,000 acres above station and about 3,000 acres below. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--81 years, 630 ft³/s; 456,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,950 ft³/s, May 25, 1984, gage height, 6.12 ft, maximum gage height, 7.60 ft, June 16, 1921; minimum daily discharge, 78 ft³/s, July 16, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,100 ft³/s, and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 10	2400	4,490	5.31	June 10	0800	*5,080	*5.51

Minimum daily discharge, 290 ft³/s, Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	638	588	482	400	290	360	503	1610	2820	1220	778	317
2	696	568	483	390	310	350	511	1740	2510	1150	764	338
3	653	571	480	390	350	350	557	2050	2600	1110	756	357
4	679	548	470	390	360	350	585	2540	2590	1080	759	343
5	820	535	465	390	370	350	519	3120	2650	1050	737	303
6	749	559	465	390	390	360	514	3300	2730	975	724	304
7	697	546	460	390	380	400	537	3080	2750	890	672	318
8	662	538	460	380	370	440	572	3380	3350	847	633	333
9	647	556	460	380	370	480	643	3710	4630	781	612	330
10	634	530	460	390	370	440	683	3850	4770	783	603	323
11	641	550	460	400	370	420	755	3790	4380	763	585	338
12	667	535	450	350	360	420	845	3080	3580	762	618	388
13	683	529	450	310	350	410	906	2600	3280	797	550	356
14	686	535	450	340	360	393	963	2140	3210	754	505	344
15	661	507	440	350	360	408	1090	2030	3190	727	557	356
16	649	501	440	370	360	426	1230	2000	3080	723	511	395
17	646	527	440	350	360	433	1370	2280	2850	728	458	375
18	658	486	430	350	360	437	1530	2470	2780	773	440	373
19	650	478	420	350	360	454	1610	2580	2550	864	442	417
20	650	467	414	360	370	481	1480	2390	2340	848	431	444
21	646	477	410	350	370	484	1380	2450	2240	874	408	468
22	632	491	415	350	360	497	1240	2640	2090	887	403	512
23	625	482	410	340	350	444	1120	2570	1970	888	407	556
24	616	490	410	330	360	478	1160	2840	1780	963	404	565
25	600	503	410	350	360	492	1140	3010	1880	908	393	560
26	606	493	400	350	360	509	1070	3070	1960	854	393	546
27	630	476	400	350	360	490	1020	3260	1650	854	342	540
28	604	484	400	340	360	494	1140	3580	1470	837	322	548
29	602	498	400	330	---	500	1330	3730	1350	866	308	573
30	597	492	400	330	---	502	1410	3610	1280	843	315	539
31	596	---	400	330	---	502	---	3210	---	801	315	---
TOTAL	20220	15540	13534	11170	10050	13554	29413	87710	80310	27200	16145	12459
MEAN	652	518	437	360	359	437	980	2829	2677	877	521	415
MAX	820	588	483	400	390	509	1610	3850	4770	1220	778	573
MIN	596	467	400	310	290	350	503	1610	1280	723	308	303
AC-FT	40110	30820	26840	22160	19930	26880	58340	174000	159300	53950	32020	24710

CAL YR 1984 TOTAL 389304 MEAN 1064 MAX 6320 MIN 266 AC-FT 772200
WTR YR 1985 TOTAL 337305 MEAN 924 MAX 4770 MIN 290 AC-FT 669000

09304600 WHITE RIVER AT MEEKER, CO

LOCATION.--Lat 40°02'00", long 107°55'05", in NE¼NE¼ sec.27, T.1 N., R.94 W., Rio Blanco County, Hydrologic Unit 14050005, on right bank, at 10th Street bridge, 0.4 mi upstream from Flag Creek, and 0.6 mi downstream from Sulphur Creek.

DRAINAGE AREA.--808 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1978 to September 1985 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 6,200 ft, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 8-15, Dec. 26 to Jan. 1, Jan. 3-31, Feb. 5 to Mar. 7, Apr. 20 to May 15. Records good except those for estimated daily discharges, which are fair. Diversions above station for irrigation of about 12,000 acres above station and about 3,000 acres below.

AVERAGE DISCHARGE.--7 years, 777 ft³/s; 562,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,880 ft³/s, May 25, 1984, gage height, 6.93 ft; maximum gage height, about 12.0 ft, Jan. 31, 1979, (ice jam); minimum daily discharge, 141 ft³/s, Aug. 29, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s, and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 11	0600	4,720	*7.69	June 9	1500	*5,120	7.59
May 29	1200	4,300	7.41				

Minimum daily discharge, 304 ft³/s, Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	595	666	615	370	345	410	570	1500	2970	1330	892	329
2	704	643	573	363	367	405	592	1650	2680	1280	878	348
3	646	648	588	365	404	400	603	1820	2760	1240	863	363
4	685	621	595	370	409	395	597	2100	2850	1210	867	341
5	929	604	534	380	400	415	466	2600	2970	1170	828	304
6	814	653	517	385	390	420	495	3200	3060	1090	814	310
7	739	638	520	380	385	460	550	3200	3260	1030	743	317
8	680	565	510	380	385	482	567	3250	4020	1000	697	326
9	650	550	508	370	390	516	626	3450	4720	944	670	323
10	644	540	508	370	400	705	645	3680	3900	948	659	319
11	657	530	510	360	410	804	739	3810	3670	927	642	341
12	706	520	510	360	405	637	791	3700	3350	924	683	389
13	750	520	510	365	390	560	780	3000	3210	954	601	364
14	764	525	510	360	380	530	812	2500	3170	917	565	348
15	722	523	510	360	370	544	955	2260	3130	896	617	365
16	697	573	508	365	370	543	1100	2290	3090	894	560	409
17	694	619	504	370	370	568	1280	2520	2860	897	506	391
18	726	567	506	370	375	561	1550	2700	2750	942	487	397
19	717	559	500	370	380	522	1730	2800	2560	1010	493	443
20	720	543	500	360	380	553	1680	2510	2390	993	471	464
21	720	567	496	360	380	520	1500	2510	2370	1020	445	488
22	707	598	469	350	380	487	1460	2660	2280	1030	441	542
23	683	589	421	350	380	458	1380	2510	2160	1020	429	578
24	683	598	465	350	380	449	1320	2780	1940	1070	416	582
25	654	624	436	340	380	486	1200	3020	2110	1010	396	572
26	658	612	425	345	385	615	1160	3200	2180	975	390	554
27	708	565	415	340	390	596	1200	3470	1800	974	331	542
28	670	614	405	340	400	524	1260	3770	1600	963	309	559
29	674	635	400	340	---	529	1300	4010	1470	994	306	576
30	666	618	390	335	---	511	1410	3900	1390	956	326	548
31	667	---	380	335	---	557	---	3480	---	911	328	---
TOTAL	21729	17627	15238	11158	10780	16162	30318	89850	82670	31519	17653	12732
MEAN	701	588	492	360	385	521	1011	2898	2756	1017	569	424
MAX	929	666	615	385	410	804	1730	4010	4720	1330	892	582
MIN	595	520	380	335	345	395	466	1500	1390	894	306	304
AC-FT	43100	34960	30220	22130	21380	32060	60140	178200	164000	62520	35010	25250

CAL YR 1984	TOTAL	419451	MEAN	1146	MAX	6100	MIN	277	AC-FT	832000
WTR YR 1985	TOTAL	357436	MEAN	979	MAX	4720	MIN	304	AC-FT	709000

09304600 WHITE RIVER AT MEEKER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to September 1985 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1978 to September 1985.
WATER TEMPERATURES: October 1978 to September 1985.

INSTRUMENTATION.--Water-quality monitor October 1978 to September 1985.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office. Dissolved solids were calculated without using the silica constituent.

COOPERATION.--Chemical quality data are provided by the U. S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 810 microsiemens Nov. 29, 1979; minimum, 134 microsiemens May 29, 1983.
WATER TEMPERATURES: Maximum, 23.0°C July 21, 28, 30, 1980; minimum, 0.0°C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 737 microsiemens Mar. 19; minimum, 225 microsiemens June 9.
WATER TEMPERATURES: Maximum, 20.0°C on July 10,13, Sep. 1; minimum, 0.0°C on many days during November to March.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
NOV								
12...	15:00	530	460	8.6	5.5	210	58	17
21...	08:50	470	454	8.4	0.0	210	61	14
29...	13:25	534	462	8.6	2.0	220	61	17
DEC								
06...	14:40	375	518	8.6	0.0	240	70	17
13...	13:50	480	478	8.6	0.5	230	63	17
JAN								
17...	14:15	370	497	8.5	0.0	230	63	17
FEB								
14...	14:00	380	480	8.4	0.5	230	66	17
MAR								
13...	16:00	558	640	8.6	6.5	290	74	26
APR								
18...	14:45	1540	352	8.3	9.0	170	47	12
MAY								
15...	13:30	2300	366	8.4	9.0	170	48	13
JUN								
20...	15:30	2420	267	8.3	13.5	130	37	8.8
JUL								
22...	13:50	1030	430	8.6	13.5	210	58	15
AUG								
27...	13:30	316	526	8.6	16.0	260	74	18
SEP								
30...	15:15	550	460	8.8	8.0	220	65	15

09304600 WHITE RIVER AT MEEKER, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE, FET-LAB (MG/L AS HCO3)	CAR-BONATE, FET-LAB (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
NOV								
12...	9.9	0.3	3.1	130	--	110	7.1	290
21...	12	0.4	0.8	150	--	100	6.7	290
29...	9.9	0.3	0.8	140	--	110	7.1	290
DEC								
06...	12	0.3	0.8	150	--	120	8.9	320
13...	9.9	0.3	0.8	140	--	120	7.4	300
JAN								
17...	9.9	0.3	0.8	140	--	120	7.4	310
FEB								
14...	9.9	0.3	0.8	150	--	100	7.8	300
MAR								
13...	22	0.6	5.9	160	--	180	13	420
APR								
18...	7.6	0.3	1.2	130	--	67	3.9	210
MAY								
15...	5.5	0.2	0.8	160	--	64	3.5	--
JUN								
20...	3.2	0.1	1.2	120	--	38	2.1	160
JUL								
22...	6.7	0.2	0.8	160	--	92	5.0	280
AUG								
27...	11	0.3	1.2	190	--	130	9.2	350
SEP								
30...	7.6	0.2	0.8	160	5	110	6.4	300

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	423	---	449	493	526	507	634	308	---	368	405	563
2	441	---	460	529	513	504	681	313	---	372	401	549
3	438	---	467	537	501	509	699	322	277	376	394	535
4	441	---	462	523	503	514	669	339	273	371	383	527
5	427	---	483	502	534	514	598	325	270	381	381	542
6	417	---	486	495	506	503	523	317	270	387	381	541
7	412	---	472	480	504	514	481	331	267	399	387	554
8	409	---	457	477	461	522	510	307	246	410	396	552
9	409	---	431	486	457	524	484	293	230	419	427	564
10	409	---	440	503	470	533	414	298	232	420	430	580
11	408	---	448	516	---	519	465	310	236	425	435	591
12	427	469	453	539	473	587	471	338	248	424	431	605
13	452	474	463	550	474	605	451	364	251	430	444	589
14	440	467	486	555	463	620	437	359	248	432	448	587
15	439	461	482	537	480	629	414	360	239	436	437	588
16	427	463	456	525	480	656	389	352	242	446	446	594
17	425	457	448	497	479	686	368	346	254	461	447	597
18	423	458	447	459	496	692	350	328	253	510	442	591
19	429	469	448	458	494	711	257	330	258	477	448	595
20	431	481	459	461	482	658	268	328	265	438	457	595
21	437	476	481	460	480	676	292	322	267	428	466	573
22	428	471	479	469	488	612	310	316	271	435	476	565
23	436	475	512	---	491	596	308	312	282	456	479	550
24	441	487	490	---	500	595	324	294	300	421	492	528
25	448	478	506	---	483	602	316	291	321	406	501	519
26	453	470	472	---	492	588	321	291	343	398	517	521
27	450	505	474	471	500	583	323	280	339	390	536	513
28	457	481	495	480	492	592	311	262	346	402	544	503
29	448	489	528	463	---	605	306	253	358	418	552	502
30	437	472	524	485	---	591	312	248	366	411	548	481
31	---	---	509	488	---	619	---	---	---	406	560	---
MEAN	432	474	473	498	490	586	423	315	277	418	455	556

WTR YR 1985 MEAN 449 MAX 711 MIN 230

09304600 WHITE RIVER AT MEEKER, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	9.0	7.5	6.0	3.5	.5	.0	.5	.0	.0	.0	5.5	1.0
2	12.0	8.0	6.0	2.0	.0	.0	.0	.0	.0	.0	6.0	2.0
3	11.0	8.5	5.0	3.5	.0	.0	.0	.0	.0	.0	3.5	.5
4	10.5	9.0	4.5	1.5	.0	.0	.0	.0	.0	.0	2.5	.0
5	11.0	8.5	4.0	1.0	.0	.0	.0	.0	.0	.0	3.5	.0
6	11.5	7.0	6.0	2.0	.0	.0	.0	.0	.5	.0	6.0	1.5
7	11.0	7.0	5.5	3.0	.0	.0	.5	.0	.5	.0	6.0	1.5
8	10.5	6.0	6.0	3.0	.0	.0	.5	.0	.5	.0	5.5	.5
9	11.0	6.0	4.5	2.5	1.0	.0	1.0	.0	.5	.0	7.0	2.0
10	10.0	6.5	---	---	1.0	.0	1.0	.0	.5	.0	5.0	3.5
11	11.0	6.5	---	---	3.0	1.0	1.0	.0	.0	.0	5.5	3.0
12	9.5	6.0	---	---	2.0	.5	.0	.0	.0	.0	5.5	3.5
13	8.5	4.5	4.5	2.5	.5	.0	.0	.0	.5	.0	6.5	1.0
14	8.0	6.0	5.0	3.0	.0	.0	.0	.0	.5	.0	7.0	1.5
15	6.0	3.0	3.5	.5	.0	.0	.0	.0	1.0	.0	7.5	2.5
16	5.0	2.0	2.5	.0	1.5	.0	.5	.0	2.0	.0	7.5	2.5
17	4.0	2.5	3.5	1.0	.0	.0	.5	.0	2.5	.0	8.0	2.5
18	4.5	1.5	3.0	.0	.0	.0	.5	.0	2.0	.0	8.0	3.5
19	3.5	1.5	2.0	.0	2.5	.0	1.0	.0	2.5	.0	9.0	3.5
20	5.5	2.0	1.5	.0	2.0	.5	1.5	.0	5.5	.5	8.5	3.0
21	5.0	3.5	2.0	.0	.5	.0	1.5	.5	5.0	2.0	8.5	3.0
22	5.0	2.5	2.5	.0	.0	.0	.5	.0	3.0	.5	5.0	1.5
23	5.0	3.0	2.0	.0	.0	.0	.0	.0	4.0	.0	7.0	2.0
24	6.0	2.5	3.0	.0	.5	.0	.0	.0	3.0	.0	9.0	3.0
25	5.0	1.5	2.5	1.0	.0	.0	.0	.0	3.5	1.0	9.5	4.5
26	5.5	1.5	1.0	.0	.5	.0	.0	.0	4.0	.0	7.0	3.5
27	6.5	3.0	.0	.0	2.5	.5	.5	.0	2.5	.0	4.0	.5
28	5.0	1.0	.5	.0	4.5	2.0	.5	.0	5.5	.0	5.0	.0
29	6.5	3.0	2.5	.0	3.5	1.5	.5	.0	---	---	3.5	.5
30	7.0	4.0	1.0	.0	1.5	.5	.5	.0	---	---	6.0	.0
31	6.0	4.5	---	---	2.5	.5	.0	.0	---	---	5.5	2.5
MONTH	12.0	1.0	6.0	.0	4.5	.0	1.5	.0	5.5	.0	9.5	.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.5	2.0	10.5	7.0	---	---	17.0	10.5	18.5	13.5	20.0	14.5
2	10.0	3.0	11.5	6.5	---	---	17.5	11.5	18.5	14.5	18.0	14.5
3	9.0	4.5	11.0	6.5	11.5	8.0	18.0	12.0	19.0	13.5	18.0	13.0
4	6.5	3.5	10.0	6.5	12.5	7.5	17.5	12.5	18.5	12.5	18.0	12.5
5	6.5	1.5	11.0	6.0	12.5	8.0	18.0	12.5	17.0	13.0	17.5	11.5
6	10.0	3.0	8.5	6.0	11.5	8.5	18.5	12.5	18.5	13.0	17.0	10.5
7	11.0	4.5	11.0	5.5	13.5	8.5	19.0	13.5	19.0	13.5	13.5	10.5
8	11.5	5.5	11.0	6.0	13.5	9.0	19.5	13.5	18.5	12.5	16.5	9.0
9	11.5	7.5	9.0	6.0	12.5	8.5	19.5	14.5	19.0	14.0	17.0	11.5
10	11.0	5.0	8.5	6.0	12.0	8.5	20.0	14.0	17.5	11.5	12.5	10.0
11	10.5	6.0	7.5	4.5	12.0	7.0	18.5	14.0	18.0	13.5	13.0	9.5
12	11.0	6.0	6.5	5.0	12.5	8.0	18.0	14.5	17.0	11.5	15.0	9.0
13	10.5	5.0	7.5	4.5	13.5	9.0	20.0	14.0	17.5	10.5	15.5	8.0
14	11.0	5.5	8.0	3.5	13.5	9.0	19.5	14.0	18.0	11.5	16.5	9.0
15	10.5	5.5	11.5	4.0	13.5	9.5	18.5	14.0	17.5	11.5	15.5	11.5
16	10.5	5.5	10.0	7.0	13.0	10.0	18.0	14.0	15.5	11.5	16.5	10.0
17	10.0	5.5	11.0	7.5	14.0	9.5	17.5	14.0	17.5	11.0	15.0	10.5
18	9.0	3.5	9.5	7.0	14.0	10.0	19.0	14.5	17.0	13.0	13.0	10.5
19	7.5	3.5	10.0	6.5	14.0	9.5	17.5	14.5	17.5	12.0	13.5	10.0
20	6.0	1.5	10.5	6.5	14.0	10.0	16.0	14.0	19.0	12.0	12.5	8.5
21	7.0	1.5	10.5	7.0	15.5	11.0	16.5	13.5	17.5	13.5	12.5	8.0
22	5.5	4.0	11.0	7.0	14.5	10.0	15.5	13.0	19.5	13.0	11.0	8.5
23	9.5	2.0	12.5	7.0	14.0	11.0	17.5	13.5	19.0	12.0	11.0	5.5
24	10.5	5.5	11.5	7.5	14.5	11.0	17.0	13.0	18.5	11.0	8.5	7.0
25	8.0	4.0	10.0	8.0	13.0	10.0	18.5	12.5	19.0	11.5	11.0	6.0
26	7.5	2.5	10.5	7.0	11.5	8.5	17.0	12.5	19.0	12.0	11.5	5.5
27	12.0	4.0	11.5	7.0	14.0	7.5	17.5	12.0	18.0	13.5	11.0	6.5
28	12.5	7.0	---	---	15.0	9.5	16.0	13.0	19.0	13.5	11.0	8.0
29	10.5	7.5	---	---	15.0	11.0	15.5	13.0	18.5	13.0	9.5	5.0
30	12.0	6.5	---	---	15.5	11.0	16.5	11.5	18.5	12.5	9.0	4.0
31	---	---	---	---	---	---	18.5	12.5	19.5	13.5	---	---
MONTH	12.5	1.5	12.5	3.5	15.5	7.0	20.0	10.5	19.5	10.5	20.0	4.0
YEAR	20.0	.0										

09304800 WHITE RIVER BELOW MEEKER, CO

LOCATION.--Lat 40°00'48", long 108°05'33", in center of sec.31, T.1 N., R.95 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 30 ft downstream from county bridge, 4.5 mi downstream from Strawberry Creek, and 10 mi west of Meeker.

DRAINAGE AREA.--1,024 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,928 ft, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 8-14, 27-31, Jan. 6-12, 17-21, 26, 27, Feb. 3-26, June 2-17. Records good except for estimated daily discharges, which are poor. Diversion above station for irrigation of about 22,000 acres above station, and a few small hay meadows below.

AVERAGE DISCHARGE.--24 years, 666 ft^3/s; 482,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,590 ft^3/s, June 26, 1983, gage height, 4.97 ft; minimum daily, 85 ft^3/s, June 28, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 19	0700	2,050	2.73	June 10	unknown	*a4,800	----
May 11	0700	4,010	3.84				

a-Mean daily discharge.
Minimum daily discharge, 361 ft^3/s, Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	74	51	47	58	52	74	470	197	84	122	59
2	80	68	51	47	57	56	99	484	182	84	128	58
3	78	66	51	48	56	58	102	481	178	78	126	61
4	82	64	49	48	54	50	120	466	165	76	118	60
5	82	63	49	50	54	48	113	477	159	80	118	55
6	78	64	48	52	54	54	107	498	149	76	114	47
7	76	68	48	53	54	56	118	469	135	78	112	45
8	75	68	48	54	54	56	131	436	120	82	106	48
9	71	68	47	56	52	66	181	415	115	78	105	48
10	69	66	47	57	50	77	174	405	122	80	102	44
11	70	63	47	57	56	85	185	397	120	90	104	40
12	75	63	46	57	62	80	209	396	113	110	108	37
13	80	62	46	58	66	76	226	381	104	120	102	30
14	80	63	46	58	64	78	234	349	93	100	102	32
15	80	62	46	58	60	90	243	320	86	90	101	33
16	79	59	46	58	58	90	252	302	77	90	98	34
17	79	58	46	58	56	92	267	304	75	89	91	32
18	80	59	46	58	54	94	279	297	71	90	88	30
19	80	59	46	57	53	101	311	304	74	96	86	30
20	80	58	46	56	56	101	335	309	70	110	82	30
21	80	58	47	56	60	101	334	291	70	115	74	29
22	80	58	47	56	56	102	316	287	68	110	85	36
23	79	58	47	56	54	99	294	273	70	165	75	39
24	73	59	47	56	49	98	298	258	78	160	76	41
25	74	59	47	56	50	97	348	249	85	139	76	39
26	70	61	47	56	50	103	367	250	94	127	75	39
27	73	56	47	56	49	101	364	236	80	124	75	39
28	74	58	47	54	50	86	376	225	80	130	75	50
29	70	54	47	58	---	67	391	217	78	132	73	61
30	71	52	47	58	---	68	458	205	78	132	67	60
31	70	---	47	58	---	70	---	195	---	129	59	---
TOTAL	2358	1848	1467	1707	1546	2452	7306	10646	3186	3244	2923	1286
MEAN	76.1	61.6	47.3	55.1	55.2	79.1	244	343	106	105	94.3	42.9
MAX	82	74	51	58	66	103	458	498	197	165	128	61
MIN	69	52	46	47	49	48	74	195	68	76	59	29
AC-FT	4680	3670	2910	3390	3070	4860	14490	21120	6320	6430	5800	2550

CAL YR 1984	TOTAL	36557	MEAN	99.9	MAX	506	MIN	18	AC-FT	72510
WTR YR 1985	TOTAL	39969	MEAN	110	MAX	498	MIN	29	AC-FT	79280

NOTE.--NO GAGE-HEIGHT RECORD JUNE 3-17.

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO

LOCATION.--Lat 39°49'34", long 108°10'57", in SE¼SE¼ sec.32, T.2 S., R.96 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 20 ft downstream from private bridge, 1,100 ft upstream from Stewart Gulch, and 14.3 mi west of Rio Blanco.

DRAINAGE AREA.--177 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,366 ft, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 21-26, Jan. 2-7, 13-18, 25, 26, and Feb. 1-12. Records good. Several diversions above station for irrigation of hay meadows.

AVERAGE DISCHARGE.--11 years, 22.6 ft^3/s; 16,370 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 520 ft^3/s July 19, 1977, gage height, 7.01 ft, from rating curve based on indirect measurement of peak flow, maximum gage height, 7.47 ft, May 16, 1984; minimum daily discharge, 0.47 ft^3/s, Apr. 25, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 4	0100	*363	*6.00	No other peak greater than base discharge.			

Minimum daily, 9.6 ft^3/s, Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	18	17	16	14	11	46	337	102	44	39	19
2	26	16	18	16	14	12	52	347	97	44	39	19
3	28	16	21	16	14	11	70	354	92	42	38	19
4	27	15	18	17	13	11	91	361	89	41	37	18
5	29	16	22	16	13	12	77	357	83	41	36	17
6	27	16	23	16	13	12	82	342	78	38	35	16
7	25	16	22	16	13	11	98	322	82	41	34	15
8	23	16	22	16	13	10	104	308	79	39	33	14
9	23	17	16	17	12	14	114	296	74	38	34	13
10	22	16	14	16	12	13	121	279	66	37	34	12
11	22	16	15	16	12	15	128	273	61	37	33	12
12	23	17	15	16	12	15	143	261	57	40	33	11
13	25	18	16	16	12	14	152	246	56	38	33	11
14	24	17	17	15	14	16	156	218	54	37	33	12
15	24	17	18	15	13	20	166	202	51	35	31	11
16	23	17	16	15	12	23	183	191	50	36	30	11
17	24	17	18	15	12	27	182	184	50	38	30	11
18	25	17	18	14	12	29	189	180	46	38	29	9.9
19	24	16	16	14	12	29	202	175	43	41	28	9.6
20	23	16	16	14	12	33	200	165	42	42	26	10
21	23	16	17	14	12	36	200	159	41	42	27	11
22	23	16	17	14	12	34	200	156	40	43	27	12
23	22	16	16	14	11	28	193	145	41	63	26	13
24	21	16	16	14	11	28	218	138	41	56	25	13
25	21	17	16	14	11	37	236	134	44	47	25	12
26	20	16	16	14	9.9	44	228	132	47	42	25	11
27	20	17	16	14	9.9	32	243	122	47	42	24	12
28	20	17	16	13	10	30	267	117	48	42	24	14
29	20	16	16	14	---	35	294	110	46	43	22	16
30	20	17	16	14	---	36	318	104	44	42	21	16
31	19	---	16	14	---	43	---	101	---	40	20	---
TOTAL	718	494	536	465	340.8	721	4953	6816	1791	1289	931	400.5
MEAN	23.2	16.5	17.3	15.0	12.2	23.3	165	220	59.7	41.6	30.0	13.3
MAX	29	18	23	17	14	44	318	361	102	63	39	19
MIN	19	15	14	13	9.9	10	46	101	40	35	20	9.6
AC-FT	1420	980	1060	922	676	1430	9820	13520	3550	2560	1850	794

CAL YR 1984	TOTAL	20428	MEAN	55.8	MAX	410	MIN	10	AC-FT	40520
WTR YR 1985	TOTAL	19455.3	MEAN	53.3	MAX	361	MIN	9.6	AC-FT	38590

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1974 to September 1985 (discontinued).
pH: December 1974 to September 1984.
WATER TEMPERATURE: December 1974 to September 1985 (discontinued).
DISSOLVED OXYGEN: December 1974 to September 1984.
SUSPENDED SEDIMENT DISCHARGE: April 1974 to September 1985 (discontinued).

INSTRUMENTATION.--Automatic pumping sediment sampler April 1974 to September 1985. Water-quality monitor December 1974 to September 1985.

REMARKS.--Daily maximum and minimum specific conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,690 microsiemens June 21, 1976; minimum, 344 microsiemens Apr. 13, 1976.
pH: Maximum, 9.0 units June 21, 1976; minimum, 7.0 units May 24, 1976.
WATER TEMPERATURES: Maximum, 29.5°C July 25, 1977; minimum, freezing point on many days during winter months each year.
DISSOLVED OXYGEN: Maximum, 15.7 mg/L Oct. 8, 1975; minimum, 5.1 mg/L July 17, 1979.
SEDIMENT CONCENTRATIONS: Maximum daily, 20,300 mg/L July 20, 1974; minimum daily, 6 mg/L several days during September 1976.
SEDIMENT LOADS: Maximum daily, 18,600 tons May 16, 1984; minimum daily, 0.02 ton Apr. 20, 1981.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,300 microsiemens July 8,10; minimum, 460 microsiemens Apr. 8.
WATER TEMPERATURES: Maximum, 21.5°C July 13,14; freezing point on many days November to March.
SEDIMENT CONCENTRATIONS: Maximum daily, 9,100 mg/L May 3; minimum daily, 8 mg/L Sep 20.
SEDIMENT LOADS: Maximum daily, 9,260 tons May 4, estimated; minimum daily, .22 ton Sep. 20.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
JAN											
24...	10:30	14	1140	8.5	0.5	11.4	--	21	440	88	52
MAR											
27...	11:20	29	1020	8.4	5.0	9.8	--	--	360	74	42
MAY											
22...	11:05	159	1030	8.4	10.5	8.5	3.6	63	410	88	47
JUN											
26...	10:15	47	1210	8.6	9.5	8.8	3.4	--	450	91	55
AUG											
14...	15:00	32	1180	8.2	18.0	8.2	--	--	430	84	54
SEP											
04...	13:30	18	1180	8.3	16.5	8.8	2.9	--	430	85	54

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)
JAN										
24...	120	3	2.3	389	<0.5	230	17	0.4	0.021	16
MAR										
27...	96	2	2.9	329	--	200	14	0.5	--	13
MAY										
22...	86	2	2.3	291	<0.5	240	15	0.4	0.089	15
JUN										
26...	120	3	2.9	354	--	280	17	0.5	--	15
AUG										
14...	110	2	2.3	313	--	280	18	0.7	--	16
SEP										
04...	110	2	2.4	317	--	280	19	0.8	--	16

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
JAN 24...	760	1.0	29	67	1.80	0.05	0.35	0.4	0.09	0.01
MAR 27...	640	0.87	50	133	1.20	0.08	0.42	0.5	0.69	0.04
MAY 22...	670	0.91	288	924	3.00	0.07	0.53	0.6	0.30	0.05
JUN 26...	790	1.1	101	204	2.70	0.05	0.65	0.7	0.14	0.02
AUG 14...	750	1.0	65	8	2.70	0.04	0.56	0.6	0.01	0.01
SEP 04...	760	1.0	37	9	2.50	0.05	0.35	0.4	0.02	0.01

DATE	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (UG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L)	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
JAN 24...	0.02	5.0	0.7	<0.01	<1	<1	2	170	4	50
MAR 27...	0.02	5.6	0.5	--	<1	--	1	100	6	14
MAY 22...	0.02	6.5	1.0	<0.01	3	<1	2	90	8	9
JUN 26...	0.02	7.1	0.5	--	6	--	<1	140	11	35
AUG 14...	0.01	4.7	0.2	--	<1	--	3	150	10	26
SEP 04...	0.02	4.7	0.3	--	3	--	2	170	12	24

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
JAN 24...	10	120	<1	<10	<1	<1	22	<0.1	3	4	1500	4
MAY 22...	10	110	2	<10	8	3	24	<0.1	5	6	1200	<3

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
JAN 24...	<17	1.8	<11	2.3	<9.4	1.9	0.08	4.2
MAY 22...	<15	<37	<8.3	37	<7.1	31	0.1	3.4

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT				
10...	14:00	22	28	1.7
NOV				
06...	14:40	16	39	1.7
28...	14:40	17	28	1.3
DEC				
07...	14:40	22	43	2.6
JAN				
10...	15:20	16	134	5.8
16...	09:30	16	121	5.2
24...	10:30	14	207	7.8
30...	09:59	14	118	4.5
FEB				
07...	14:24	13	116	4.1
20...	15:15	12	290	9.4
26...	10:45	9.9	132	3.5
MAR				
08...	11:30	10	149	4.0
APR				
04...	11:12	91	3670	902
12...	15:46	143	6510	2510
15...	11:04	169	6490	2960
29...	12:29	300	7040	5700
MAY				
03...	09:30	370	7920	7910
09...	14:59	296	3970	3170
17...	12:20	185	2010	1000
22...	11:05	159	2670	1150
JUN				
20...	12:13	42	216	24
26...	10:15	47	451	57
AUG				
08...	13:00	33	75	6.7
14...	15:00	32	51	4.4
SEP				
04...	13:30	18	43	2.1

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	992	1050	1010	1070	---	1060	1100	975	1080	1250	1200	1170
2	1050	1050	986	1130	---	1030	1060	964	1090	1250	1190	1170
3	1050	990	990	1120	---	1050	935	931	1100	1250	1190	1170
4	1020	---	976	1090	---	1050	845	907	1100	1250	1190	1180
5	1070	1090	992	1070	---	1070	764	892	1110	1250	1180	1190
6	1040	1070	1060	1040	---	1040	601	913	1120	1270	1180	1180
7	1020	1080	1110	1030	---	1040	496	933	1140	1280	1180	1170
8	1020	1080	1150	1030	---	1040	598	935	1140	1280	1190	1170
9	1020	1090	1170	1030	---	1060	874	944	1140	1270	1200	1170
10	1000	1100	1170	1040	1000	---	888	956	1150	1280	1200	1180
11	1040	1110	1170	1050	1020	---	889	966	1160	1270	1200	1170
12	991	1110	1160	1040	1020	---	875	979	1180	1220	1200	1190
13	956	1140	1150	1050	1040	1100	876	1010	1190	1250	1200	1220
14	978	1130	1150	1010	1050	1090	880	1010	1200	1260	1200	1210
15	977	1110	1110	1010	1040	1070	876	1020	1210	1260	1200	1200
16	985	1110	1170	1050	1050	1060	875	1020	1210	1260	1200	1200
17	947	1120	1170	1060	1060	1030	861	1010	1220	1270	1190	1200
18	962	1120	1040	1030	1060	1010	853	997	1240	1250	1180	1190
19	1010	1100	1040	1030	1050	1010	852	1000	1240	1220	1190	1200
20	1020	1100	1040	1040	1040	977	861	1010	1260	1220	1190	1210
21	1060	1100	1030	1040	1050	941	886	1010	1260	1220	1180	1220
22	1040	1120	1040	1040	1080	886	915	1020	1260	1180	1180	1200
23	997	1120	1060	1060	1080	938	948	1030	1260	1000	1180	1200
24	996	1120	1040	1050	1070	1000	933	1030	1250	1180	1160	1210
25	1020	1120	1050	---	1080	890	904	1030	1220	1210	1160	1220
26	1000	1110	1040	---	1080	808	1000	1050	1230	1210	1160	1230
27	1020	1120	1030	---	1080	936	1010	1050	1250	1210	1150	1250
28	995	1070	1030	---	1080	1070	988	1050	1240	1190	1150	1250
29	1010	1050	1040	1050	---	1090	1010	1060	1240	1190	1150	1240
30	1020	1030	1050	1060	---	1070	1000	1070	1250	1190	1170	1240
31	1020	---	1050	---	---	1110	---	1070	---	1200	1170	---
MEAN	1010	1090	1070	1050		1020	882	995	1190	1230	1180	1200

WTR YR 1985 MEAN 1080 MAX 1280 MIN 496

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	10.5	7.0	5.5	1.0	3.0	.0	.5	.0	---	---	8.0	.0
2	14.5	8.5	5.0	1.0	.0	.0	.0	.0	---	---	8.5	1.5
3	12.0	7.5	3.0	.5	3.0	.0	.0	.0	---	---	5.0	.0
4	10.5	9.5	---	---	.5	.0	.0	.0	---	---	6.0	.0
5	14.0	8.0	---	---	.0	.0	.0	.0	---	---	7.0	.0
6	14.0	6.5	8.0	3.0	.0	.0	.0	.0	---	---	9.0	1.5
7	12.5	6.0	8.0	4.5	.5	.0	3.5	.0	1.0	.0	8.5	.5
8	13.5	5.5	8.0	3.5	2.5	.0	4.0	2.5	.0	.0	8.5	.0
9	13.5	6.0	4.5	3.0	5.5	2.5	4.0	1.5	1.5	.0	9.0	2.5
10	12.0	8.5	5.0	.0	4.0	1.0	5.0	2.0	3.5	.0	---	---
11	13.5	6.0	7.0	3.0	5.5	3.5	3.5	1.0	.0	.0	---	---
12	9.5	6.0	7.5	2.5	5.0	.5	2.0	.0	3.0	.0	---	---
13	7.5	3.5	7.5	3.5	1.5	.0	.0	.0	5.0	.0	10.0	3.5
14	8.0	4.0	6.5	3.0	2.0	.0	.0	.0	3.5	.0	11.0	.5
15	8.0	4.0	6.0	1.0	1.5	.0	.0	.0	6.0	.0	9.5	1.5
16	8.0	4.0	5.5	1.0	4.0	.5	.0	.0	6.0	.0	10.5	1.0
17	4.5	3.5	6.5	2.5	1.5	.0	.0	.0	5.0	1.0	9.5	1.0
18	5.5	2.0	5.5	.0	4.5	.0	3.5	.0	6.5	.0	8.5	2.0
19	7.0	3.0	4.5	.0	5.0	1.0	6.0	2.0	6.0	.0	10.0	2.0
20	7.5	2.5	4.5	.0	4.0	1.5	4.0	.0	8.0	2.0	10.0	1.0
21	7.5	3.5	5.5	.0	2.0	.0	3.5	1.5	7.5	2.0	9.5	.5
22	7.0	3.5	5.5	1.0	.0	.0	3.5	.0	5.5	.5	6.0	.0
23	6.0	2.0	5.0	.5	.0	.0	3.0	.0	7.0	.5	10.0	.5
24	5.5	1.0	5.5	1.0	.0	.0	.5	.0	6.5	.0	12.0	1.5
25	6.5	2.5	4.5	1.0	.0	.0	.0	.0	7.0	1.5	10.5	1.5
26	5.5	2.0	3.0	.0	4.0	.0	2.0	.0	8.0	1.0	5.5	2.5
27	---	---	.0	.0	6.0	3.5	5.0	.5	6.5	.0	5.0	.5
28	5.0	.5	4.0	.0	5.5	3.0	4.5	.0	8.5	.0	8.5	.5
29	5.5	.5	3.5	.5	6.0	2.0	3.5	.5	---	---	3.5	.0
30	6.0	1.5	3.5	.0	5.0	1.0	2.0	.0	---	---	9.5	.0
31	5.0	.5	---	---	4.5	1.0	---	---	---	---	8.0	2.0
MONTH	14.5	.5	8.0	.0	6.0	.0	6.0	.0	8.5	.0	12.0	.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.0	2.5	11.0	6.0	15.0	8.5	19.5	10.0	19.5	11.0	20.5	12.0
2	13.5	2.5	15.0	5.5	17.0	8.0	20.0	10.5	20.0	11.5	19.0	12.5
3	10.0	2.5	13.5	6.5	16.5	8.5	20.5	10.0	20.5	10.5	18.0	10.5
4	5.0	2.0	13.0	7.5	18.0	8.5	19.0	10.0	20.5	9.5	19.5	10.0
5	8.0	.5	13.0	7.5	16.5	8.5	20.0	10.5	19.0	10.5	19.5	9.5
6	12.0	2.0	10.5	7.5	15.5	9.0	18.0	10.5	19.0	10.5	19.0	8.0
7	12.0	3.5	14.5	6.5	20.0	9.5	19.0	11.0	20.5	10.0	14.5	8.0
8	11.0	3.0	14.5	6.5	20.5	10.5	21.0	11.5	20.0	10.0	19.0	7.5
9	10.5	5.5	11.0	7.0	17.5	10.5	20.5	12.0	20.0	11.0	18.0	9.5
10	12.0	3.0	12.0	7.5	19.5	11.0	20.5	12.0	20.0	8.0	15.5	8.0
11	12.5	3.5	10.5	6.5	19.0	8.0	19.5	12.0	19.5	11.0	14.0	9.0
12	12.0	4.0	9.5	6.0	19.5	8.5	18.0	13.0	19.5	9.0	18.0	7.5
13	12.0	3.0	10.5	5.5	20.0	9.5	21.5	12.0	19.5	8.0	17.5	7.0
14	13.0	3.5	14.0	5.0	20.0	9.5	21.5	11.5	19.0	9.0	18.5	7.5
15	12.0	4.0	15.0	6.5	20.5	9.5	19.0	11.5	19.5	8.5	16.5	11.0
16	12.0	4.5	11.0	7.5	18.0	10.0	18.0	11.5	19.0	9.0	18.5	9.5
17	11.5	5.5	13.0	8.0	20.5	10.0	19.0	12.5	19.0	9.0	17.0	9.0
18	11.0	5.5	12.0	8.0	20.0	9.5	20.0	13.0	18.5	11.5	15.0	9.5
19	7.5	5.0	14.0	8.0	20.0	8.5	17.0	12.5	20.0	10.5	16.5	10.0
20	8.0	2.5	11.5	7.5	19.5	9.5	16.0	12.0	20.5	10.0	14.5	7.5
21	8.5	1.5	11.5	8.0	20.0	10.5	16.5	12.0	18.0	11.5	15.5	7.5
22	6.0	3.5	14.0	8.0	19.0	9.0	16.0	12.0	21.0	11.5	13.5	9.0
23	11.0	1.5	17.0	7.5	19.5	10.0	17.0	11.5	20.5	9.0	15.0	5.5
24	11.5	5.0	15.0	8.5	18.5	10.5	17.0	11.5	20.0	8.0	12.5	7.5
25	8.0	4.0	13.0	8.5	15.0	9.5	19.5	11.0	20.5	8.5	14.5	7.0
26	8.5	4.0	16.0	9.0	16.0	8.5	19.0	11.0	20.0	9.0	15.5	5.0
27	13.5	4.0	17.0	8.0	18.5	8.0	18.0	10.5	18.0	10.5	15.5	6.0
28	13.5	5.5	16.0	8.0	18.5	9.0	17.0	10.5	20.0	11.0	13.5	8.5
29	11.5	6.5	16.5	8.0	17.5	9.5	16.0	11.5	18.0	10.5	13.0	4.5
30	14.0	5.5	16.0	7.5	19.5	9.5	17.5	10.5	20.5	9.5	14.0	3.5
31	---	---	12.0	7.0	---	---	20.5	10.5	19.5	11.0	---	---
MONTH	14.0	.5	17.0	5.0	20.5	8.0	21.5	10.0	21.0	8.0	20.5	3.5
YEAR	21.5	.0										

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	22	---	1.7	18	46	2.2	17	19	.87
2	26	---	2.0	16	52	2.2	18	---	1.1
3	28	---	2.1	16	32	1.4	21	---	1.4
4	27	---	2.0	15	29	1.2	18	---	1.4
5	29	---	2.2	16	25	1.1	22	---	1.8
6	27	---	2.0	16	42	1.8	23	---	2.3
7	25	---	1.9	16	24	1.0	22	43	2.6
8	23	---	1.7	16	24	1.0	22	---	2.9
9	23	---	1.7	17	40	1.8	16	---	2.6
10	22	28	1.7	16	72	3.1	14	---	2.6
11	22	28	1.7	16	92	4.0	15	---	3.2
12	23	24	1.5	17	68	3.1	15	---	3.2
13	25	17	1.1	18	45	2.2	16	---	3.5
14	24	35	2.3	17	23	1.1	17	---	3.6
15	24	30	1.9	17	19	.87	18	---	3.8
16	23	12	.75	17	17	.78	16	---	3.8
17	24	16	1.0	17	67	3.1	18	---	4.0
18	25	26	1.8	17	108	5.0	18	---	4.0
19	24	83	5.4	16	124	5.4	16	---	4.4
20	23	78	4.8	16	70	3.0	16	---	4.4
21	23	18	1.1	16	49	2.1	17	---	4.6
22	23	13	.81	16	25	1.1	17	---	4.6
23	22	19	1.1	16	26	1.1	16	---	4.4
24	21	23	1.3	16	---	1.1	16	---	4.4
25	21	14	.79	17	---	1.2	16	---	4.4
26	20	23	1.2	16	---	1.2	16	---	4.4
27	20	46	2.5	17	---	1.3	16	---	4.4
28	20	37	2.0	17	28	1.3	16	---	4.4
29	20	51	2.8	16	---	1.1	16	---	4.4
30	20	47	2.5	17	---	1.0	16	---	4.4
31	19	30	1.5	---	---	---	16	---	4.4
TOTAL	718	---	58.85	494	---	57.85	536	---	106.27
		JANUARY			FEBRUARY			MARCH	
1	16	---	4.4	14	---	4.4	11	---	4.1
2	16	---	4.4	14	---	4.4	12	---	4.5
3	16	101	4.4	14	---	4.3	11	---	4.2
4	17	104	4.8	13	---	4.3	11	---	4.2
5	16	158	6.8	13	---	4.2	12	---	4.7
6	16	142	6.1	13	---	4.2	12	---	4.7
7	16	161	7.0	13	116	4.1	11	---	4.4
8	16	141	6.1	13	---	4.6	10	149	4.0
9	17	---	6.0	12	---	4.6	14	169	6.4
10	16	134	5.8	12	---	5.1	13	199	7.0
11	16	---	5.8	12	---	5.5	15	290	12
12	16	---	5.9	12	---	5.9	15	366	15
13	16	---	6.3	12	---	6.4	14	506	19
14	15	---	6.5	14	---	7.9	16	524	23
15	15	---	6.7	13	---	7.9	20	1330	72
16	15	165	6.7	12	---	7.7	23	1910	119
17	15	---	6.7	12	---	8.1	27	2530	184
18	14	---	6.9	12	---	8.6	29	3320	260
19	14	---	7.0	12	---	9.0	29	---	320
20	14	---	7.0	12	290	9.4	33	---	400
21	14	---	7.4	12	---	8.6	36	---	440
22	14	---	7.4	12	---	7.7	34	---	390
23	14	---	7.6	11	---	6.3	28	---	260
24	14	207	7.8	11	---	5.5	28	---	370
25	14	---	7.5	11	---	4.7	37	---	590
26	14	---	6.5	9.9	132	3.5	44	---	660
27	14	---	5.0	9.9	---	3.6	32	---	460
28	13	---	4.8	10	---	3.6	30	---	400
29	14	---	4.6	---	---	---	35	---	440
30	14	118	4.5	---	---	---	36	---	420
31	14	---	4.4	---	---	---	43	---	470
TOTAL	465	---	188.8	340.8	---	164.1	721	---	6372.2

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	46	---	460	337	---	7820	102	---	210
2	52	---	480	347	---	8340	97	---	190
3	70	---	580	354	9100	8700	92	---	170
4	91	4900	1200	361	---	9260	89	---	150
5	77	---	1060	357	---	8770	83	---	130
6	82	---	1170	342	---	7390	78	---	120
7	98	---	1460	322	---	5220	82	---	120
8	104	---	1600	308	---	3330	79	---	100
9	114	---	1820	296	3970	3170	74	---	90
10	121	---	1990	279	---	2800	66	---	120
11	128	---	2180	273	---	2560	61	925	152
12	143	6510	2510	261	---	2280	57	---	80
13	152	---	2670	246	---	1980	56	---	65
14	156	---	2740	218	---	1610	54	---	60
15	166	6490	2910	202	---	1360	51	---	50
16	183	---	3040	191	---	1160	50	---	45
17	182	---	2870	184	2010	999	50	---	40
18	189	---	2820	180	---	930	46	---	30
19	202	---	2830	175	---	860	43	---	25
20	200	---	2620	165	---	770	42	216	24
21	200	---	2450	159	---	710	41	186	21
22	200	---	2220	156	---	660	40	232	25
23	193	---	2030	145	---	570	41	206	23
24	218	---	3700	138	---	510	41	486	54
25	236	---	4650	134	---	470	44	427	51
26	228	---	3760	132	---	430	47	451	57
27	243	---	4530	122	---	360	47	386	49
28	267	---	5120	117	---	320	48	251	33
29	294	7800	6190	110	---	280	46	345	43
30	318	---	7300	104	822	231	44	550	65
31	---	---	---	101	---	220	---	---	---
TOTAL	4953	---	80960	6816	---	84070	1791	---	2392
		JULY			AUGUST			SEPTEMBER	
1	44	513	61	39	172	18	19	---	2.0
2	44	413	49	39	107	11	19	---	2.0
3	42	328	37	38	---	10	19	---	2.0
4	41	213	24	37	---	9.5	18	43	2.1
5	41	278	30	36	---	9.0	17	46	2.1
6	38	385	40	35	---	8.0	16	28	1.2
7	41	223	25	34	---	7.5	15	15	.61
8	39	164	17	33	76	6.8	14	26	.98
9	38	147	15	34	157	14	13	12	.42
10	37	247	25	34	128	12	12	32	1.0
11	37	130	13	33	92	8.2	12	20	.65
12	40	448	48	33	68	6.1	11	20	.59
13	38	181	19	33	59	5.3	11	39	1.2
14	37	344	34	33	50	4.5	12	24	.78
15	35	172	16	31	28	2.3	11	---	.65
16	36	150	15	30	30	2.4	11	---	.60
17	38	317	33	30	52	4.2	11	---	.55
18	38	196	20	29	24	1.9	9.9	---	.40
19	41	518	57	28	17	1.3	9.6	12	.31
20	42	316	36	26	34	2.4	10	8	.22
21	42	216	24	27	36	2.6	11	---	.25
22	43	776	90	27	40	2.9	12	10	.32
23	63	3050	519	26	42	2.9	13	18	.63
24	56	1280	194	25	23	1.6	13	---	.55
25	47	570	72	25	26	1.8	12	15	.49
26	42	230	26	25	39	2.6	11	13	.39
27	42	362	41	24	22	1.4	12	11	.36
28	42	605	69	24	40	2.6	14	9	.34
29	43	351	41	22	58	3.4	16	10	.43
30	42	226	26	21	44	2.5	16	11	.48
31	40	190	21	20	---	---	---	---	---
TOTAL	1289	---	1746	931	---	168.7	400.5	---	24.60
YEAR	19455.3		176309.37						

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°49'09", long 108°11'08", in SE¼NE¼ sec.5, T.3 S., R.96 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 0.6 mi upstream from mouth, about 300 ft above mouth of West Fork Stewart Gulch, and 14.2 mi west of Rio Blanco.

DRAINAGE AREA.--44.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to September 1985 (discontinued).

REVISED RECORDS.--WDR CO-77-3: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,430 ft, from topographic map.

REMARKS.--Estimated daily discharge: May 7-16, 18-22, and June 16-25. Records good except for estimated daily discharges, which are poor. Diversion immediately upstream from gage for irrigation of about 20 acres of grassland.

AVERAGE DISCHARGE.--11 years, 2.31 ft^3/s; 1,670 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38 ft^3/s, July 19, 1977, gage height, 4.05 ft; July 12, 1985, gage height, 4.06 ft; no flow, Aug. 7, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 38 ft^3/s at 1430 July 12, gage height, 4.06 ft; minimum daily, 2.5 ft^3/s, Apr. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	6.7	5.9	4.7	3.8	3.8	3.6	4.3	12	5.6	16	10
2	6.4	6.7	5.9	4.5	4.0	4.0	3.8	4.1	11	5.5	16	10
3	6.3	6.7	5.9	4.4	4.0	3.9	4.1	4.2	10	6.5	14	10
4	6.3	6.7	5.9	4.4	4.1	3.6	4.1	4.4	10	7.8	12	9.8
5	6.1	6.7	5.8	4.4	4.2	3.6	3.9	4.9	9.1	8.1	13	8.2
6	6.1	6.9	5.8	4.5	4.2	3.9	4.0	5.5	6.4	8.8	14	8.0
7	6.1	6.9	5.9	4.6	4.1	3.7	4.0	6.0	4.2	9.2	14	7.8
8	6.1	6.9	5.8	4.6	4.3	3.7	4.0	6.6	4.0	9.3	14	7.8
9	6.1	6.9	5.8	4.7	4.4	4.3	3.0	7.5	3.9	9.4	14	7.6
10	6.3	6.9	5.6	4.6	4.4	4.3	2.9	8.0	3.5	9.3	14	7.2
11	6.4	6.9	5.8	4.5	4.4	4.6	2.7	9.0	3.3	9.5	14	7.2
12	6.4	6.9	5.9	4.5	4.4	4.4	2.7	9.8	3.3	13	14	7.0
13	6.4	6.9	5.8	4.2	4.1	4.4	2.7	11	3.2	9.8	14	6.7
14	6.4	6.9	5.8	4.2	3.9	4.6	2.7	12	4.4	8.2	14	6.7
15	6.4	6.9	5.8	4.3	3.5	4.8	2.7	13	6.1	8.5	13	6.7
16	6.4	6.7	5.5	4.4	3.9	4.8	2.7	14	6.2	7.8	12	6.7
17	6.4	6.7	5.5	4.4	3.7	4.7	2.5	15	6.3	7.3	12	6.6
18	6.4	6.6	5.5	4.5	3.7	4.7	2.6	16	6.4	7.3	11	6.5
19	6.4	6.6	5.5	4.5	3.6	4.9	2.6	16	6.5	9.4	11	6.1
20	6.6	6.7	5.5	4.5	3.7	4.7	2.7	16	6.6	11	11	5.7
21	6.6	7.1	5.3	4.5	3.5	4.6	2.7	17	6.7	11	11	5.5
22	6.6	6.6	5.2	4.5	3.7	4.4	2.7	17	6.8	12	11	5.5
23	6.6	6.6	5.3	4.3	3.8	4.3	2.9	17	6.9	13	11	5.5
24	6.6	6.6	5.2	4.3	3.8	4.3	3.2	16	7.0	11	11	5.3
25	6.6	6.3	5.3	4.2	3.7	4.3	3.3	14	7.1	11	11	5.3
26	6.6	6.4	5.1	4.4	3.9	4.4	3.6	14	7.0	12	11	5.3
27	6.6	6.1	5.3	4.3	3.7	4.2	3.5	14	5.8	16	11	5.3
28	6.6	5.9	5.1	4.3	3.8	3.8	3.9	14	5.7	16	11	5.3
29	6.6	5.9	5.0	4.4	---	3.7	3.8	14	5.7	16	11	5.1
30	6.6	5.9	5.0	4.4	---	3.6	3.9	13	5.8	16	11	5.1
31	6.7	---	5.0	4.0	---	3.6	---	14	---	16	11	---
TOTAL	199.1	199.2	171.7	137.0	110.3	130.6	97.5	351.3	190.9	321.3	388	205.5
MEAN	6.42	6.64	5.54	4.42	3.94	4.21	3.25	11.3	6.36	10.4	12.5	6.85
MAX	6.7	7.1	5.9	4.7	4.4	4.9	4.1	17	12	16	16	10
MIN	6.1	5.9	5.0	4.0	3.5	3.6	2.5	4.1	3.2	5.5	11	5.1
AC-FT	395	395	341	272	219	259	193	697	379	637	770	408

CAL YR 1984	TOTAL	1653.47	MEAN	4.52	MAX	7.8	MIN	.07	AC-FT	3280
WTR YR 1985	TOTAL	2502.4	MEAN	6.86	MAX	17	MIN	2.5	AC-FT	4960

09306022 STEWART GULCH ABOVE WEST FORK NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1974 to September 1982.
pH: October 1974 to March 1982.
WATER TEMPERATURE: October 1974 to September 1982.
DISSOLVED OXYGEN: October 1974 to March 1982.
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to September 1982.

INSTRUMENTATION.--Water-quality monitor October 1974 to September 1982. Pumping sediment sampler October 1974 to September 1982.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,200 microsiemens Nov. 10, 1975; minimum, 583 microsiemens Feb. 22, 1982.
pH: Maximum, 8.9 units Dec. 9, 11, 1979; minimum, 7.6 units Oct. 7, 1975.
WATER TEMPERATURES: Maximum, 20.5°C July 3, 1976, June 3, 1977; minimum, 0.0°C Jan. 9, Dec. 17, 1977, Mar. 3, Dec. 2, 3, 1978, Jan. 29, 1979.
DISSOLVED OXYGEN: Maximum, 16.6 mg/L Jan. 13, 1976; minimum, 3.6 mg/L Aug. 19, 20, 1977.
SEDIMENT CONCENTRATIONS: Maximum daily, 1,350 mg/L June 8, 1975; minimum daily, no flow Aug. 7-9, 1975.
SEDIMENT LOADS: Maximum daily, 10 tons estimated June 8, 1975; minimum daily, no flow Aug. 7-9, 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
JAN											
24...	10:00	4.1	1320	8.3	6.5	10.2	--	18	540	96	72
MAR											
27...	11:35	4.3	1290	8.3	8.0	9.6	--	--	460	80	63
MAY											
22...	09:15	14	1290	8.4	10.5	8.2	2.4	27	530	95	70
JUN											
26...	09:45	7.5	1300	8.6	8.5	8.8	4.8	--	490	85	67
AUG											
15...	10:15	15	1340	7.8	10.0	9.6	4.6	--	520	91	72
SEP											
04...	14:00	11	1320	8.1	12.0	9.2	5.1	--	500	88	69

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)
JAN										
24...	120	2	1.2	415	<0.5	340	7.7	0.3	0.02	16
MAR										
27...	110	2	1.1	314	--	350	8.0	0.4	--	13
MAY										
22...	120	2	1.6	363	<0.5	360	10	0.2	0.07	15
JUN										
26...	120	2	1.4	386	--	340	9.8	0.2	--	15
AUG										
15...	120	2	1.1	347	--	360	9.9	0.3	--	15
SEP										
04...	120	2	1.2	369	--	360	9.8	0.3	--	15

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
JAN										
24...	900	1.2	10	96	2.50	0.03	0.37	0.4	0.11	0.01
MAR										
27...	810	1.1	9.5	51	1.90	0.05	0.15	0.2	0.09	0.01
MAY										
22...	890	1.2	34	326	1.90	0.06	0.44	0.5	0.14	0.02
JUN										
26...	870	1.2	18	98	4.30	0.04	0.46	0.5	0.08	0.01
AUG										
15...	880	1.2	36	10	4.10	0.04	0.46	0.5	<0.01	<0.01
SEP										
04...	880	1.2	26	10	4.40	0.03	0.67	0.7	<0.01	<0.01

09306022 STEWART GULCH ABOVE WEST FORK NEAR RIO BLANCO, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (UG/L)	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L)	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
JAN 24...	0.02	2.7	0.8	<0.01	<1	<1	1	70	<3	23
MAR 27...	0.01	1.9	0.4	--	<1	--	<1	80	63	9
MAY 22...	0.01	3.4	0.5	<0.01	5	<1	<1	70	8	12
JUN 26...	0.01	3.3	0.3	--	3	--	<1	80	17	11
AUG 15...	0.01	2.7	0.2	--	<1	--	2	80	12	5
SEP 04...	<0.01	3.0	0.1	--	2	--	1	80	8	4

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
JAN 24...	10	51	<1	<10	<1	<1	15	<0.1	<1	2	2600	7
MAY 22...	<10	65	2	<10	2	<1	14	<0.1	1	3	2200	17

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
JAN 24...	<20	2.6	<12	2.9	<10	2.5	0.07	3.6
MAY 22...	<20	19	<11	18	<9.1	15	0.06	2.6

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE (DEG C)
NOV 05...	13:59	6.7	1350	9.0	MAY 16...	11:36	14	1350	10.5
JAN 09...	10:03	4.8	1380	6.0	JUN 11...	11:00	3.4	1380	14.0
FEB 06...	13:25	4.4	1330	5.5	JUL 11...	12:50	9.5	1350	13.5
MAR 13...	11:50	4.5	1180	6.5	SEP 12...	14:00	6.9	1380	12.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
JAN 24...	10:00	4.1	171	1.9	AUG 15...	10:15	15	28	1.1
MAY 22...	09:15	14	513	19	SEP 04...	14:00	11	55	1.6
JUN 26...	09:45	7.5	287	5.8					

09306036 SORGHUM GULCH AT MOUTH, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°49'30", long 108°11'54", in NW¼NW¼ sec.5, T.3 S., R.96 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 1,400 ft upstream from mouth and 14.8 mi west of Rio Blanco.

DRAINAGE AREA.--3.62 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to September 1985 (discontinued).

GAGE.--Water-stage recorder and 1 ft trapezoidal supercritical-flow flume. Elevation of gage is 6,372 ft, from topographic map. Prior to April 23, 1981, at site 300 ft downstream at datum 6.68 ft, lower.

REMARKS.--Estimated daily discharges: Feb. 15 to March 11. Records good except for periods of flow, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 250 ft^3/s, July 12, 1985, gage height, 11.49 ft, on basis of slope area measurement of peak flow; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 250 ft^3/s at 1430 July 12, gage height, 11.49 ft, on basis of slope area measurement of peak flow; no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	1.1	.42	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.26	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.17	.07	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.40	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.32	.00	.00	.00	17	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.6	.00	.00
14	.00	.00	.00	.00	.00	.04	.00	.00	.00	.00	.00	.00
15	.05	.00	.00	.00	.00	.50	.00	.00	.00	.00	.00	.00
16	.15	.00	.00	.00	.00	.79	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.22	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.15	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.26	.00	.00	1.7	.00	.00
23	.00	.00	.00	.00	.00	.00	.26	.00	.00	1.9	.00	.00
24	.00	.00	.00	.00	.00	.00	.75	.00	.00	.00	.00	.00
25	.00	.05	.00	.00	.00	.00	1.6	.00	.00	.00	.00	.00
26	.00	.05	.00	.00	.00	.00	1.2	.00	.00	.00	.00	.00
27	.37	.00	.00	.00	.00	.02	1.1	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.95	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.02	.86	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.56	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.48	---	.00	---	.00	.00	---
TOTAL	.57	.10	.00	.00	.00	2.81	8.96	.94	.00	23.20	.00	.00
MEAN	.02	.00	.00	.00	.00	.09	.30	.03	.00	.75	.00	.00
MAX	.37	.05	.00	.00	.00	.79	1.6	.42	.00	17	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	1.1	.2	.00	.00	.00	5.6	18	1.9	.00	46	.00	.00

CAL YR 1984	TOTAL	17.65	MEAN	.05	MAX	4.4	MIN	.00	AC-FT	35
WTR YR 1985	TOTAL	36.58	MEAN	.10	MAX	17	MIN	.00	AC-FT	73

09306036 SORGHUM GULCH AT MOUTH NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to September 1985 (discontinued).

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to September 1982.

INSTRUMENTATION.--Water-quality monitor October 1974 to September 1981. Pumping sediment sampler October 1974 to September 1982.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily, 8,020 mg/L Sept. 3, 1977; no flow many days during each year.
SEDIMENT LOADS: Maximum daily, 424 tons Sept. 3, 1977; no flow many days during each year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
MAR										
11...	15:45	0.03	244	8.1	1.0	90	28	4.9	15	0.7

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
MAR									
11...	5.2	77	37	3.5	<0.1	4.4	150	0.2	0.01

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)
MAR									
11...	<0.01	0.21	0.14	0.76	0.9	0.29	0.25	20	340

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAR				
11...	15:45	0.03	15	0.0

09306039 COTTONWOOD GULCH NEAR RIO BLANCO, CO

LOCATION.--Lat 39°49'36", long 108°12'25", in SW¼SE¼ sec.31, T.2 S., R.96 W., Rio Blanco County, Hydrologic Unit 14050006, on right bank 800 ft upstream from mouth and 15.4 mi west of Rio Blanco.

DRAINAGE AREA.--1.20 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to September 1985 (discontinued).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,353 ft, from topographic map.

REMARKS.--Estimated daily discharges: July 25 to Aug. 7 and Sept. 1-12. Records excellent except for days of flow, which are poor. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 514 ft^3/s, Aug. 16, 1984, gage height, 3.96 ft, from rating curve extended above 3.8 ft^3/s, on basis of slope area measurements at gage heights, 2.69 ft, and 3.96 ft; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.2 ft^3/s at 1230 July 12, gage height, 1.57 ft; no flow most of the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.06	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.09	.00	.00	.00	.01	.00	.00
MEAN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAX	.00	.00	.00	.00	.00	.06	.00	.00	.00	.01	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.2	.00	.00	.00	.02	.00	.00

CAL YR 1984	TOTAL	21.76	MEAN	.06	MAX	18	MIN	.00	AC-FT	43
WTR YR 1985	TOTAL	.10	MEAN	.00	MAX	.06	MIN	.00	AC-FT	.2

09306039 COTTONWOOD GULCH NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD:--April 1974 to September 1985 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1974 to September 1981.
WATER TEMPERATURE: April 1974 to September 1981.
SUSPENDED-SEDIMENT DISCHARGE: April 1974 tp September 1981.

INSTRUMENTATION:--Water-quality monitor April 1976 to September 1981. Automatic pumping sediment sampler April 1974 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 225 microsiemens Mar. 24, 1976; minimum, 124 microsiemens Mar. 27, 1976.
WATER TEMPERATURES: Maximum, 25.0°C Mar. 24, 1976; minimum 0.0°C on several days each year during spring runoff.
SEDIMENT CONCENTRATIONS: Maximum daily, 62,000 mg/L estimated Sept. 3, 1977; no flow many days each year.
SEDIMENT LOADS: Maximum daily, 200 tons estimated Sept. 3, 1977; no flow many days each year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
MAR										
11...	15:20	0.06	320	8.2	1.0	120	28	13	22	0.9

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)
MAR										
11...	4.8	106	55	4.6	0.1	6.1	200	0.27	0.03	0.23

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)
MAR									
11...	0.01	0.24	0.22	0.98	1.2	0.40	0.35	20	640

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAR				
11...	15:20	0.06	72	0.01

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO

LOCATION.--Lat 39°50'01", long 108°13'12", in SE¼NE¼ sec.36, T.2 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 600 ft upstream from mouth and 16.2 mi west of Rio Blanco.

DRAINAGE AREA.--1.06 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to August 1984, May 1985 to current year.

REVISED RECORDS.--WDR CO-79-3: 1977(M).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,335 ft, from topographic map. Nov. 10, 1980 to June 10, 1981 at datum 0.21 ft, lower.

REMARKS.--Estimated daily discharges: May 1-2, June 27 to July 1, Aug. 6-21, Aug. 27 to Sept. 3. Records poor. Most flow due to discharge of settling ponds on tract Cb, except for summer thunderstorms.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 576 ft³/s, Aug. 1, 1984, gage height, 6.38 ft, on basis of slope-area measurement of peak flow; no flow most of each year.

EXTREMES FOR CURRENT PERIOD MAY TO SEPTEMBER.--Maximum discharge, 3.8 ft³/s at 1600 July 1, gage height, 1.25 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								.42	.17	.55	.00	.03
2								.44	.04	.65	.00	.05
3								.15	.04	.83	.22	.06
4								.08	.04	.06	.83	.11
5								.04	.06	.00	.69	.30
6								.38	.08	.00	.80	.11
7								.31	.08	.00	.80	.14
8								.21	.04	.00	.13	.10
9								.06	.03	.10	.13	.21
10								.28	.04	.17	.13	.17
11								.75	.12	.13	.50	.32
12								.69	.12	.10	.25	.42
13								.63	.13	.04	.13	.47
14								.35	.10	.06	.13	.69
15								.23	.08	.11	.13	.51
16								.47	.06	.15	.09	.35
17								.17	.13	.18	.05	.35
18								.02	.08	.22	.03	.26
19								.02	.04	.05	.10	.21
20								.05	.04	.19	.50	.28
21								.17	.04	.08	.20	.42
22								.13	.03	.89	.03	.69
23								.05	.03	1.3	.00	.28
24								.08	.04	.27	.00	.28
25								.00	.05	.47	.01	.32
26								.05	.07	.89	.02	.47
27								.10	.10	1.1	.08	.47
28								.31	.20	.45	.18	.42
29								.26	.30	.70	.07	.35
30								.26	.40	.75	.05	.35
31								.26	---	.00	.02	---
TOTAL								7.42	2.78	10.49	6.30	9.19
MEAN								.24	.09	.34	.20	.31
MAX								.75	.40	1.3	.83	.69
MIN								.00	.03	.00	.00	.03
AC-FT								15	5.5	21	12	18

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1974 to August 1984, April 1985 to September 1985.
pH: February to September 1981.
WATER TEMPERATURE: April 1974 to August 1984, April 1985 to September 1985.
SUSPENDED-SEDIMENT DISCHARGE: April 1974 to September 1982.

INSTRUMENTATION.--Water-quality monitor since April 1974. Pumping sediment sampler April 1974 to September 1982.

REMARKS.--Daily maximum and minimum values of specific conductance are available in the district office.
Temperature maximum extreme based on representative data collected during periods of expected higher temperatures.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,570 microsiemens Sept. 16, 1980; minimum observed, 220 microsiemens Jan. 26, 1982.
WATER TEMPERATURES: Maximum, 35.0°C Aug. 7, 1985; minimum, 0.0°C many days during winter months.
SEDIMENT CONCENTRATIONS: Maximum daily, 28,000 mg/L estimated Sept. 3, 1978; no flow many days dry years.
SEDIMENT LOADS: Maximum daily, 900 tons, estimated, Sept. 3, 1978; no flow many days dry years.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Not determined.
WATER TEMPERATURES: Maximum, 35.0°C August 7; minimum, not determined.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
JAN											
24...	11:00	0.19	2100	9.0	0.5	11.0	--	15	60	10	8.0
MAR											
27...	08:45	0.3	2180	9.1	4.0	7.6	--	--	--	12	>5.0
MAY											
23...	09:40	0.36	2050	9.1	15.5	8.0	1.9	26	60	10	8.2
JUN											
20...	10:00	0.3	2150	9.1	20.0	7.0	0.74	--	62	12	7.8
AUG											
15...	12:30	0.13	2300	8.9	25.0	6.5	--	--	58	11	7.5
SEP											
04...	12:45	0.08	2280	8.9	25.0	6.6	--	--	58	11	7.5

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)
JAN										
24...	570	33	1.5	1220	<0.5	22	7.0	19	0.12	10
MAR										
27...	560	--	1.3	1130	--	30	8.8	17	--	12
MAY										
23...	540	31	1.8	708	<0.5	36	11	18	0.053	12
JUN										
20...	550	31	1.6	695	--	55	9.4	18	--	9.4
AUG										
15...	490	29	1.6	1120	--	56	11	17	--	11
SEP										
04...	570	33	1.6	1180	--	62	9.1	18	--	10

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
JAN										
24...	1400	1.9	0.71	39	0.75	0.04	0.26	0.3	0.05	<0.01
MAR										
27...	--	--	--	49	0.62	0.04	0.06	0.1	0.05	0.01
MAY										
23...	1100	1.4	1.0	177	0.87	0.09	0.91	1.0	0.03	0.07
JUN										
20...	1100	1.5	0.88	44	0.44	0.04	0.26	0.3	0.10	<0.01
AUG										
15...	1300	1.7	0.45	9	0.47	0.03	0.27	0.3	0.01	<0.01
SEP										
04...	1400	1.9	0.3	1	0.54	0.03	0.27	0.3	<0.01	<0.01

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (UG/L)	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L)	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
JAN 24...	<0.01	4.2	0.6	<0.01	<1	<1	1	690	80	<10
MAR 27...	<0.01	4.3	0.6	--	4	--	<1	680	40	<10
MAY 23...	<0.01	5.8	0.3	<0.01	4	<1	1	690	100	<10
JUN 20...	<0.01	5.0	0.7	--	2	--	2	710	40	<10
AUG 15...	0.01	4.5	0.2	--	1	--	3	750	30	<10
SEP 04...	<0.01	4.6	0.4	--	1	--	2	760	30	<10

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
JAN 24...	30	600	<1	<10	1	<1	40	<0.1	4	<1	1200	<10
MAY 23...	50	600	1	<10	5	1	40	<0.1	1	<1	1000	20

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
JAN 24...	<35	1.2	<22	1.5	<19	1.3	0.21	1.8
MAY 23...	<30	7.1	22	7.6	19	6.5	0.14	1.5

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE (DEG C)
NOV 06...	15:15	0.1	2230	10.0	DEC 12...	10:40	0.21	2200	1.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
MAR 27...	08:45	0.3	1870	1.5	AUG 15...	12:30	0.13	242	0.08
MAY 23...	09:40	0.36	6870	6.7	SEP 04...	12:45	0.08	45	0.01
JUN 20...	10:00	0.3	278	0.23					

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25 DEG. C, APRIL 1985 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	---	2060	---	---
2								---	---	2130	---	---
3								---	---	---	---	---
4								---	---	---	---	2190
5								---	---	---	---	2210
6								---	---	---	---	---
7								---	---	---	---	---
8								---	---	---	---	---
9								---	---	---	---	2120
10								---	---	---	---	2170
11								---	---	---	---	2190
12								---	---	---	---	---
13								---	---	---	---	---
14								---	---	---	---	---
15								2200	---	---	2150	---
16								2110	---	---	---	---
17								---	---	---	---	---
18								---	2150	---	---	---
19								---	---	---	---	---
20								---	---	---	---	---
21								---	2040	---	---	---
22								---	2020	---	---	---
23								---	1990	---	---	2200
24								---	---	---	---	2220
25								---	---	---	---	---
26								---	---	---	---	---
27								---	2050	---	---	---
28								---	2060	---	---	---
29								---	2020	---	---	---
30								---	2060	---	---	2070
31								---	---	---	---	---

TEMPERATURE, WATER (DEG. C), APRIL 1985 TO SEPTEMBER 1985

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	18.0	6.5	22.5	8.0	32.5	10.5	---	---	27.0	13.0
2	---	---	18.0	6.0	26.0	5.5	32.5	10.5	---	---	27.0	13.5
3	---	---	22.5	6.5	27.5	6.0	33.0	11.0	29.5	10.0	25.5	10.0
4	---	---	21.5	7.5	30.0	6.0	28.0	8.5	29.0	8.0	26.5	9.5
5	---	---	25.0	6.0	32.5	6.5	---	---	28.5	10.5	25.5	8.0
6	---	---	16.5	6.5	25.5	7.5	---	---	27.5	10.0	25.0	6.0
7	---	---	23.5	5.0	31.0	8.5	---	---	35.0	9.0	21.5	6.5
8	---	---	23.0	5.0	32.5	9.5	---	---	29.5	9.0	26.0	6.0
9	---	---	16.0	6.5	33.0	9.5	28.0	15.5	34.0	9.0	24.0	7.5
10	---	---	20.0	8.0	27.0	8.0	31.0	12.5	29.0	5.0	22.0	6.0
11	---	---	15.0	6.0	30.0	6.0	27.5	13.5	27.5	11.0	19.0	7.5
12	21.0	5.0	14.5	5.5	30.0	5.5	29.5	13.5	28.5	6.0	22.0	5.0
13	23.5	2.5	17.0	4.0	30.5	8.0	31.5	12.0	30.0	5.5	23.5	3.5
14	25.0	3.0	24.5	2.5	30.5	9.0	32.0	10.5	28.5	6.5	26.0	5.0
15	21.0	4.0	26.5	5.5	33.0	8.0	32.0	11.0	27.5	6.5	23.0	10.0
16	21.0	5.0	16.5	5.5	28.5	8.5	30.0	10.5	27.5	9.0	24.5	8.0
17	21.0	6.5	25.0	9.0	30.0	9.0	27.5	13.5	28.5	7.5	22.0	7.0
18	22.5	6.5	20.5	6.0	30.5	8.0	31.0	14.5	28.5	10.5	20.0	8.0
19	14.0	6.5	25.5	6.0	31.5	7.0	32.0	13.0	26.5	10.0	22.0	6.5
20	16.0	.5	23.5	5.0	30.0	8.5	26.5	13.5	27.5	9.0	18.0	5.0
21	13.5	2.5	19.5	6.0	31.0	10.5	23.5	14.0	29.0	10.0	20.5	4.5
22	9.0	3.0	26.0	6.5	30.0	7.0	26.5	13.5	26.5	11.0	18.5	5.0
23	17.5	1.0	26.5	4.0	30.0	9.0	28.5	12.0	---	---	20.0	2.5
24	20.0	5.5	27.0	4.5	26.5	10.5	28.0	12.0	28.5	5.5	15.0	6.5
25	5.5	3.5	---	---	24.0	9.5	30.5	11.5	30.0	7.0	20.0	3.0
26	10.0	3.0	26.0	7.5	25.5	8.5	30.0	12.5	28.5	8.0	22.0	2.0
27	19.0	2.0	26.5	6.5	30.0	7.0	29.5	10.5	27.0	11.0	20.5	3.5
28	18.5	4.5	25.5	6.5	31.5	9.0	24.0	10.0	30.5	12.0	18.5	3.5
29	17.0	6.5	25.5	6.5	26.0	10.0	27.0	13.0	26.0	10.5	17.5	.0
30	20.5	5.0	25.5	5.0	31.5	10.5	26.5	11.0	28.0	9.0	19.0	.0
31	---	---	22.0	4.5	---	---	---	---	29.5	11.0	---	---
MONTH			27.0	2.5	33.0	5.5	33.0	8.5	35.0	5.0	27.0	.0

09306045 PICEANCE CREEK BELOW GARDENHIRE GULCH, NEAR RIO BLANCO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°50'08", long 108°13'14", in SE¼NE¼ sec.36, T.2 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 300 ft downstream from Piceance Creek tributary and 18.8 mi west of Rio Blanco.

DRAINAGE AREA.--255 mi².

PERIOD OF RECORD.--October 1980 to September 1981, October 1984 to September 1985 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1980 to September 1981.
WATER TEMPERATURE: October 1980 to September 1981.
PH: October 1980 to September 1981.

INSTRUMENTATION.--Water-quality monitor October 1980 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,900 microsiemens Apr. 19, 1981; minimum, 974 microsiemens Aug 24, 1981.
WATER TEMPERATURES: Maximum, 26.5°C July 8, 1981; minimum, 0.0°C Feb. 10, 1981.
PH: Maximum, not determinued; minimum not determined.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
FEB												
20...	10:45	23	1190	8.5	4.0	10.1	420	79	53	120	3	2.6
MAR												
27...	09:57	42	1110	8.4	4.0	9.9	370	72	45	100	2	2.7
MAY												
22...	13:00	189	1070	8.5	11.0	8.7	410	82	49	89	2	2.4

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)
FEB												
20...	397	250	15	0.8	14	770	1.1	48	--	1.80	0.13	0.67
MAR												
27...	320	240	14	0.5	13	680	0.92	77	702	1.30	0.08	0.42
MAY												
22...	303	260	14	0.4	14	690	0.94	354	1060	2.80	0.08	0.72

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	PHENOLS TOTAL (UG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L)	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
FEB												
20...	0.8	0.09	0.04	0.03	3.7	0.3	2	--	--	150	--	--
MAR												
27...	0.5	0.17	0.03	0.03	4.2	0.5	<1	--	<1	110	6	8
MAY												
22...	0.8	0.03	0.02	0.02	--	1.7	4	1	2	90	8	8

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAR				
27...	09:57	42	1030	117
MAY				
22...	13:00	189	1790	913

09306052 SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°48'51", long 108°14'35", in SW¼SE¼ sec.2, T.3 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on right bank 2,100 ft upstream from mouth and 16.8 mi west of Rio Blanco.

DRAINAGE AREA.--7.97 mi^2.

PERIOD OF RECORD.--April 1974 to September 1976, November 1977 to September 1985 (discontinued).

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,434 ft, from topographic map.

REMARKS.--Estimated daily discharges: Mar. 11-15. Records excellent except for days of flow, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32 ft^3/s, Aug. 1, 1984, gage height, 1.77 ft, from rating curve extended above 4.3 ft^3/s; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8.4 ft^3/s at 1430 July 12, gage height, 1.41 ft, from rating curve extended above 4.3 ft^3/s; no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.04	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.19	.00	.00	.00	.24	.00	.00
MEAN	.00	.00	.00	.00	.00	.01	.00	.00	.00	.01	.00	.00
MAX	.00	.00	.00	.00	.00	.10	.00	.00	.00	.24	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.4	.00	.00	.00	.5	.00	.00

CAL YR 1984	TOTAL	2.80	MEAN	.01	MAX	2.0	MIN	.00	AC-FT	5.6
WTR YR 1985	TOTAL	.43	MEAN	.00	MAX	.24	MIN	.00	AC-FT	.8

09306052 SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to September 1976, November 1977 to September 1985 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1974 to September 1976, November 1977 to September 1981.
WATER TEMPERATURE: April 1974 to September 1976, November 1977 to September 1981.
SUSPENDED SEDIMENT DISCHARGE: April 1974 to September 1976, November 1977 to September 1981.

INSTRUMENTATION.--Water-quality monitor and automatic sediment sampler, April 1974 to September 1976, November 1977 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 674 microsiemens Nov. 1, 1980; minimum, 147 microsiemens July 29, 1978.
WATER TEMPERATURE: Maximum, 22.0°C July 29, 1978; minimum, 0.0°C Nov. 3, 1980.
SEDIMENT CONCENTRATIONS: Maximum daily, 49,000 mg/L July 29, 1978; no flow many days each year.
SEDIMENT LOADS: Maximum daily, 120 tons estimated Sept. 30 1981; no flow many days each year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
MAR										
11...	13:45	0.3	119	8.1	1.0	55	19	1.7	1.3	0.1

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)
MAR										
11...	5.2	54	9.9	1.6	<0.1	3.5	76	0.1	0.06	0.24

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)
MAR									
11...	0.02	0.26	0.19	0.91	1.1	0.41	0.37	20	140

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAR				
11...	13:45	0.3	204	0.17

09306058 WILLOW CREEK NEAR RIO BLANCO, CO

LOCATION.--Lat 39°50'14", long 108°14'37", in NW¼NE¼ sec.35, T.2 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on right bank 1,500 ft upstream from mouth and 17.4 mi west of Rio Blanco.

DRAINAGE AREA.--48.4 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to September 1985 (discontinued).

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Concrete control since Aug. 9, 1974. Elevation of gage is 6,273 ft, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 16 to Nov. 7, Dec. 2, 3, 17, 20-25, and Jan. 10-18. Records good except for estimated daily discharges, which are poor. Diversions above station for irrigation of about 315 acres.

AVERAGE DISCHARGE.--11 years, 3.17 ft³/s; 2,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 89 ft³/s, July 22, 1983, gage height, 5.16 ft, from rating curve extended above 18 ft³/s; no flow for many days in 1978, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36 ft³/s at 2000 May 16, gage height, 4.70 ft; minimum daily, 3.2 ft³/s, Oct. 3, Jan. 25, 27, Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	6.1	4.3	6.1	4.7	4.2	4.9	8.5	26	8.3	4.3	9.4
2	4.9	6.1	4.3	6.2	4.3	4.5	5.2	9.0	25	8.4	4.6	9.5
3	3.2	6.2	4.8	6.3	4.2	4.2	5.5	11	25	8.6	4.9	9.5
4	3.9	6.2	5.2	6.4	3.5	5.3	5.7	11	24	8.7	5.6	9.0
5	5.6	6.3	5.3	6.5	3.2	6.5	5.5	11	22	8.5	6.5	8.8
6	7.2	6.3	5.2	6.6	4.3	4.7	5.6	12	22	8.6	7.2	8.5
7	6.6	6.3	5.3	6.7	4.3	4.5	5.5	27	20	8.7	7.1	8.4
8	6.2	6.6	5.0	6.8	4.5	4.0	5.5	28	17	9.0	6.5	8.3
9	6.3	5.8	3.9	6.6	4.3	4.2	5.8	30	12	8.8	6.3	8.5
10	6.4	5.2	4.0	6.9	4.9	4.3	6.2	31	13	9.9	6.6	8.5
11	6.2	4.6	4.6	6.9	4.7	6.4	6.7	32	14	11	8.0	8.8
12	6.4	4.6	5.8	6.8	5.1	9.1	7.5	33	16	12	8.2	8.9
13	6.2	4.7	5.4	6.7	4.9	8.2	8.1	33	13	11	9.4	8.9
14	6.1	4.4	4.9	6.6	4.7	7.7	8.5	34	12	9.9	9.1	8.9
15	5.5	4.2	4.7	6.5	4.7	8.0	8.2	34	9.9	8.9	8.6	8.9
16	5.5	4.2	4.4	6.3	4.6	8.1	7.9	35	9.3	7.2	7.9	8.9
17	5.5	4.3	4.7	6.1	4.6	7.7	6.8	35	8.4	5.9	8.1	9.0
18	5.5	4.3	5.1	6.0	4.4	7.3	6.2	35	7.8	5.8	7.6	9.0
19	5.5	4.2	5.4	5.8	4.5	7.1	7.4	34	7.6	5.0	8.0	9.3
20	5.6	6.7	5.9	5.6	4.8	7.6	6.1	33	7.3	4.8	9.0	9.5
21	5.7	6.6	5.8	5.5	4.8	7.1	6.9	33	6.8	6.1	9.3	9.5
22	5.7	6.6	5.7	5.3	4.5	6.3	5.4	33	6.1	5.7	9.4	9.7
23	5.8	6.4	5.7	4.0	4.4	5.7	5.3	32	7.7	5.5	9.8	11
24	5.8	6.2	5.7	3.8	4.6	5.4	6.0	30	8.7	4.9	9.9	12
25	5.8	6.2	5.7	3.2	4.3	5.3	7.0	30	8.7	4.6	10	11
26	5.9	6.2	5.8	3.5	4.3	5.4	7.5	28	11	4.3	11	11
27	5.9	5.0	5.9	3.2	4.4	5.4	7.0	29	10	4.5	11	10
28	5.9	4.3	5.9	3.4	4.2	4.8	5.3	28	9.1	4.8	11	10
29	6.0	4.6	6.1	3.5	---	4.9	6.3	27	8.7	4.9	11	9.7
30	6.0	4.6	6.1	3.5	---	4.4	7.8	27	8.4	4.9	10	9.5
31	6.0	---	6.1	5.3	---	4.8	---	27	---	4.7	9.4	---
TOTAL	177.1	164.0	162.7	172.6	124.7	183.1	193.3	840.5	396.5	223.9	255.3	281.9
MEAN	5.71	5.47	5.25	5.57	4.45	5.91	6.44	27.1	13.2	7.22	8.24	9.40
MAX	7.2	6.7	6.1	6.9	5.1	9.1	8.5	35	26	12	11	12
MIN	3.2	4.2	3.9	3.2	3.2	4.0	4.9	8.5	6.1	4.3	4.3	8.3
AC-FT	351	325	323	342	247	363	383	1670	786	444	506	559

CAL YR 1984	TOTAL	2282.1	MEAN	6.24	MAX	14	MIN	2.3	AC-FT	4530
WTR YR 1985	TOTAL	3175.6	MEAN	8.70	MAX	35	MIN	3.2	AC-FT	6300

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to September 1985 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1974 to September 1982.
pH: March 1976 to February 1982.
WATER TEMPERATURE: November 1974 to September 1982.
DISSOLVED OXYGEN: March 1976 to February 1982.
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to September 1982.

INSTRUMENTATION.--Water-quality monitor November 1974 to September 1982. Pumping sediment sampler October 1974 to September 1982.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,920 microsiemens July 14, 1976; minimum, 528 microsiemens Mar. 18, 1976.
pH: Maximum, 8.8 units Mar. 11, 1980; minimum, 7.4 units June 4, 6, 1980.
WATER TEMPERATURES: Maximum, 30.5°C July 4, 1982; minimum, 0.0°C on many days during winter months each year.
DISSOLVED OXYGEN: Maximum, 12.9 mg/L Mar. 29, 1979; minimum, 3.6 mg/L Sept. 29, 1978.
SEDIMENT CONCENTRATIONS: Maximum daily, 7,030 mg/L July 29, 1979; no flow many days during 1978.
SEDIMENT LOADS: Maximum daily, 61 tons July 29, 30, 1979; no flow many days during 1978.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
JAN											
25...	10:00	3.7	1240	8.4	0.0	11.8	--	16	520	98	65
MAR											
27...	11:50	5.7	1250	8.6	5.0	9.4	--	--	510	96	65
MAY											
22...	14:45	33	1170	8.3	17.0	7.7	2.9	25	490	96	60
JUN											
26...	11:00	11	1270	8.6	10.0	9.3	1.6	--	500	92	66
AUG											
15...	13:30	8.3	1260	8.2	16.0	7.7	1.7	--	510	94	68
SEP											
04...	11:45	6.8	1290	8.1	12.0	8.1	1.3	--	520	92	70

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)
JAN										
25...	110	2	1.1	397	<0.5	280	13	0.4	0.019	17
MAR										
27...	100	2	1.4	368	--	300	11	0.3	--	16
MAY										
22...	96	2	1.5	315	<0.5	300	13	0.3	0.081	18
JUN										
26...	110	2	2.2	364	--	310	11	0.3	--	17
AUG										
15...	110	2	1.6	361	--	320	13	0.3	--	17
SEP										
04...	110	2	2.1	376	--	320	14	0.4	--	18

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
JAN										
25...	840	1.1	8.4	41	0.98	0.04	0.26	0.3	0.04	0.01
MAR										
27...	810	1.1	12	506	1.10	0.06	0.34	0.4	0.47	0.01
MAY										
22...	780	1.1	69	358	2.30	0.06	0.54	0.6	0.03	0.04
JUN										
26...	830	1.1	25	64	1.20	0.05	0.35	0.4	0.10	0.04
AUG										
15...	840	1.1	19	238	1.30	0.04	0.36	0.4	0.04	0.02
SEP										
04...	850	1.2	16	12	0.97	0.03	0.27	0.3	0.02	0.02

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (UG/L)	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L)	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
JAN 25...	0.01	--	0.3	<0.01	<1	<1	1	120	10	19
MAR 27...	0.02	2.7	0.5	--	<1	--	<1	120	<3	19
MAY 22...	0.01	4.4	1.4	<0.01	2	<1	<1	90	9	17
JUN 26...	0.03	5.7	0.4	--	--	--	<1	120	12	19
AUG 15...	0.03	4.2	1.7	--	6	--	2	120	5	27
SEP 04...	<0.01	4.2	0.1	--	1	--	1	130	14	12

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
JAN 25...	20	70	<1	<10	1	<1	14	<0.1	3	2	2400	12
MAY 22...	<10	94	1	<10	3	4	14	0.1	3	4	2100	8

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
JAN 25...	<19	1.7	<12	1.5	<9.9	1.3	0.11	2.8
MAY 22...	<15	19	<9.3	13	<8.0	11	0.1	2.4

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE (DEG C)
DEC 12...	12:34	6.0	1400	6.0
JAN 10...	13:10	4.9	1280	4.0
FEB 12...	12:20	4.8	1220	0.0
APR 12...	14:00	7.4	1210	14.0
MAY 17...	14:07	35	1180	17.0
JUN 12...	11:10	15	1230	13.5
JUL 11...	11:30	11	1290	14.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
JAN 25...	10:00	3.7	60	0.6
MAR 27...	11:50	5.7	1070	16
MAY 22...	14:45	33	482	43
JUN 26...	11:00	11	275	8.2
AUG 15...	13:30	8.3	1660	37
SEP 04...	11:45	6.8	82	1.5

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°51'02", long 108°15'31", in SE¼NE¼ sec.27, T.2 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 120 ft downstream from private bridge, 0.4 mi upstream from Hunter Creek, and 18.7 mi west of Rio Blanco.

DRAINAGE AREA.--309 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,214 ft, from topographic map. Prior to Mar. 26, 1982, at site 75 ft upstream at datum 0.98 ft, lower.

REMARKS.--Estimated daily discharges: Dec. 1-8, 17, 18, 21-26, Jan. 1-6, 13-18, 24-26, Feb. 1-11. Records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--11 years, 30.3 ft^3/s; 21,950 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 612 ft^3/s, May 7, 1985, gage height, 5.65 ft, maximum gage height, 5.85 ft, May 16, 1984; no flow Oct. 4, 5, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 612 ft^3/s at 0400 May 7, gage height 5.65 ft; minimum daily, 6.8 ft^3/s, Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	27	25	27	26	29	47	434	135	63	57	29
2	40	30	25	27	26	31	48	473	132	59	59	29
3	39	36	25	27	26	31	65	514	126	61	57	31
4	39	36	26	27	25	26	97	540	122	59	54	31
5	36	39	27	27	25	27	75	549	115	59	51	39
6	39	39	26	28	25	32	78	475	103	49	52	30
7	39	39	24	28	25	33	92	465	98	55	54	25
8	38	39	23	31	25	33	97	411	90	57	48	25
9	36	42	22	31	24	42	114	397	87	48	56	26
10	39	40	19	30	24	46	122	358	85	50	48	25
11	36	43	19	29	24	48	137	343	79	52	48	18
12	41	42	20	30	24	46	158	333	61	67	46	14
13	42	49	21	30	23	44	151	322	64	62	49	13
14	45	55	22	30	23	45	148	303	70	56	52	13
15	35	55	26	30	24	54	162	255	65	51	51	13
16	34	51	21	29	25	56	155	241	64	43	50	14
17	38	45	21	28	25	57	152	231	64	40	47	13
18	38	43	20	28	25	60	159	225	61	47	43	14
19	39	39	20	28	26	57	179	225	64	53	48	14
20	36	38	21	29	28	65	163	208	66	54	41	8.6
21	39	37	21	27	28	66	155	204	55	63	43	6.8
22	39	38	21	27	27	63	147	201	46	54	47	9.2
23	40	39	22	29	25	48	120	200	50	93	44	16
24	39	34	23	29	25	45	146	194	66	82	43	21
25	35	36	23	28	25	57	208	180	74	62	40	19
26	33	39	23	27	25	72	182	178	71	56	39	19
27	33	37	24	27	25	50	209	167	59	58	39	15
28	33	36	28	26	27	41	268	161	59	61	41	23
29	30	30	27	27	---	42	313	156	59	61	38	32
30	27	25	27	26	---	39	377	142	58	59	33	31
31	26	---	27	26	---	48	---	130	---	58	31	---
TOTAL	1140	1178	719	873	705	1433	4524	9215	2348	1792	1449	616.6
MEAN	36.8	39.3	23.2	28.2	25.2	46.2	151	297	78.3	57.8	46.7	20.6
MAX	45	55	28	31	28	72	377	549	135	93	59	39
MIN	26	25	19	26	23	26	47	130	46	40	31	6.8
AC-FT	2260	2340	1430	1730	1400	2840	8970	18280	4660	3550	2870	1220

CAL YR 1984	TOTAL	26088	MEAN	71.3	MAX	426	MIN	19	AC-FT	51750
WTR YR 1985	TOTAL	25992.6	MEAN	71.2	MAX	549	MIN	6.8	AC-FT	51560

09306061 PICEANCE CREEK ABOVE HUNTER CREEK NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1974 to September 1985 (discontinued).
pH: October 1974 to September 1984.
WATER TEMPERATURE: October 1974 to September 1985 (discontinued).
DISSOLVED OXYGEN: October 1974 to September 1984.
SUSPENDED-SEDIMENT DISCHARGE: April 1974 to September 1985 (discontinued).

INSTRUMENTATION.--Automatic pumping sediment sampler April 1974 to September 1985. Water-quality monitor October 1974 to September 1985.

REMARKS.--Daily maximum and minimum specific conductance data available in district office. Period of record and current year minimum extreme for specific conductance are based on representative record for 66 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum 1,980 microsiemens Jan. 15, 1976; minimum, 440 microsiemens Apr. 19, 1985.
pH: Maximum, 8.9 units Dec. 7, 1977; minimum, 7.4 units Apr. 18, 1979.
WATER TEMPERATURES: Maximum, 26.5°C June 26, 1977; minimum, freezing point on many days during winter months.
DISSOLVED OXYGEN: Maximum, 16.5 mg/L Mar. 21, 22, 1976; minimum, 3.1 mg/L Sept. 10, 1978.
SEDIMENT CONCENTRATIONS: Maximum daily, 15,000 mg/L May 2, 1986; minimum daily, no flow Oct. 4, 5, 1977.
SEDIMENT LOADS: Maximum daily, 27,000 tons estimated Sept. 3, 1977; minimum daily, no flow Oct. 4, 5, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, not determined; minimum, 440 microsiemens Apr. 19.
WATER TEMPERATURES: Maximum, 24.5°C June 21; minimum, 0.0°C on many days during November to March.
SEDIMENT CONCENTRATIONS: Maximum daily, 15,000 mg/L May 2; minimum daily, 26 mg/L Sep. 18.
SEDIMENT LOADS: Maximum daily, 23,700 tons estimated May 5; minimum daily, 0.98 ton Sep. 18.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
JAN											
25...	11:30	26	1240	8.5	0.5	11.2	--	22	480	89	63
MAR											
27...	14:05	45	1130	8.5	5.0	9.4	--	--	390	75	50
MAY											
23...	11:00	184	1100	8.3	9.0	8.9	3.4	56	440	91	52
JUN											
26...	11:45	66	1360	8.4	11.0	8.1	2.2	--	480	86	64
AUG											
14...	14:00	49	1260	8.1	15.0	7.7	--	--	480	86	64
SEP											
04...	11:15	31	1290	8.2	12.0	8.8	3.0	--	470	83	64

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)
JAN										
25...	130	3	2.0	436	<0.5	290	13	0.9	0.02	16
MAR										
27...	110	2	2.7	434	--	250	13	0.6	--	13
MAY										
23...	94	2	2.2	283	<0.5	270	15	0.4	0.35	15
JUN										
26...	130	3	3.2	355	--	320	15	0.7	--	17
AUG										
14...	130	3	2.0	341	--	310	15	0.6	--	16
SEP										
04...	130	3	2.2	359	--	310	15	0.7	--	16

09306061 PICEANCE CREEK ABOVE HUNTER CREEK NEAR RIO BLANCO, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
JAN 25...	870	1.2	61	117	1.60	0.04	0.16	0.2	0.11	0.02
MAR 27...	770	1.1	94	798	1.20	0.08	0.32	0.4	0.71	0.03
MAY 23...	710	0.97	353	1060	2.80	0.11	0.49	0.6	0.03	0.02
JUN 26...	850	1.2	151	618	1.70	0.04	0.46	0.5	0.15	0.04
AUG 14...	830	1.1	110	83	2.70	0.06	0.74	0.8	0.02	0.01
SEP 04...	840	1.1	70	7	2.60	0.03	0.37	0.4	0.01	<0.01

DATE	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (UG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L)	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
JAN 25...	0.02	3.8	0.9	<0.01	<1	<1	2	160	4	10
MAR 27...	0.02	4.1	0.6	--	4	--	<1	120	<3	--
MAY 23...	<0.01	6.6	1.3	<0.01	3	<1	2	100	3	9
JUN 26...	0.03	7.5	0.6	--	4	--	<1	160	15	29
AUG 14...	0.01	4.5	0.2	--	<1	--	3	150	15	9
SEP 04...	0.02	3.9	0.1	--	5	--	1	150	29	9

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
JAN 25...	10	97	<1	<10	<1	<1	18	<0.1	3	3	2100	7
MAY 23...	<10	110	<1	<10	3	<1	16	<0.1	3	2	1500	6

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
JAN 25...	--	<19	5.0	<12	5.3	<11	4.5	0.14	4.1
MAY 23...	20	<16	29	<9.8	32	<8.4	28	0.11	4.0

09306061 PICEANCE CREEK ABOVE HUNTER CREEK NEAR RIO BLANCO, CO--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT				
17...	12:45	46	226	28
NOV				
02...	15:55	25	168	11
13...	10:25	38	166	17
28...	15:50	36	201	20
DEC				
06...	14:30	36	117	11
18...	16:00	20	269	15
JAN				
03...	14:25	27	568	41
10...	12:35	30	256	21
16...	10:20	29	153	12
25...	11:30	26	582	41
29...	11:40	25	182	12
FEB				
07...	10:40	25	49	3.3
12...	11:15	30	747	61
20...	14:25	27	581	42
26...	13:05	24	1210	78
MAR				
08...	14:20	29	318	25
27...	14:05	45	1370	166
APR				
04...	15:10	79	3530	753
11...	13:40	146	4800	1890
MAY				
23...	11:00	184	1430	710
JUN				
12...	12:50	62	646	108
26...	11:45	66	711	127
AUG				
14...	14:00	49	374	49
SEP				
04...	11:15	31	167	14

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1250	1210	---	---	---	1220	1210		---	1400	---	1280
2	1220	1210	---	---	---	1150	1210		---	1400	---	1280
3	1250	1220	---	---	---	1190	1090		845	1400	---	1280
4	1230	1220	---	---	---	---	958		949	1400	---	1280
5	1240	1220	---	---	---	---	1070		730	1390	---	1290
6	1240	1210	---	---	---	---	1000		775	1400	---	1300
7	1240	1210	---	---	---	1160	886		726	1400	---	1300
8	1240	1210	---	---	---	1200	886		758	1390	1320	1300
9	1230	1210	---	---	1170	1120	828		862	1390	1320	1310
10	1230	1220	---	1230	1190	1070	836		823	1390	1310	1330
11	1220	1210	---	1230	1240	1080	1010		941	1390	1300	1340
12	1200	1220	---	1240	1230	1150	973		1280	1300	1290	1360
13	1210	1220	---	---	1230	1200	969		1280	---	1290	1390
14	1220	1210	---	---	1230	1210	973		1260	---	1290	1390
15	1220	1210	---	---	1230	1160	961		1280	---	1290	1380
16	1210	1210	---	1230	1230	1150	945		1290	---	1290	1390
17	1200	1210	---	1250	1240	1150	931		1260	---	1290	1410
18	1200	1210	1130	1220	1250	1130	845		1270	1390	1290	1410
19	1220	1210	1150	1240	1240	1150	666		1230	1360	1290	1420
20	1220	1210	1140	1240	1210	1100	---		1220	1360	1290	1430
21	1210	1210	1140	1230	1200	1080	---		1270	---	1290	1430
22	1220	1210	1140	1230	1240	1060	---		1290	---	1270	1420
23	1210	1210	1140	1240	1250	1160	---		1330	---	1290	1400
24	1210	1210	1090	1250	1250	1200	---		1310	---	1280	1400
25	1210	1210	1010	1260	1240	1070	---		1370	---	1280	1400
26	1210	1190	---	1220	1250	924	---		1390	---	1270	---
27	1200	1210	---	1240	1250	1090	---		1390	---	1270	---
28	1210	---	---	1240	1240	1180	---		1390	---	1270	---
29	1220	---	---	1240	---	1190	---		1400	---	1260	---
30	1210	---	---	1220	---	1220	---		1400	---	1280	---
31	1210	---	---	---	---	1210	---		---	---	1280	---

09306061 PICEANCE CREEK ABOVE HUNTER CREEK NEAR RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	11.5	8.0	9.5	4.0	---	---	2.5	.0	.5	.0	8.0	.0
2	15.5	9.0	9.5	3.5	---	---	.0	.0	.5	.0	8.0	1.5
3	14.0	9.0	8.5	4.5	---	---	.0	.0	.5	.0	4.0	.0
4	11.5	10.5	7.5	2.5	---	---	.0	.0	.5	.0	---	---
5	14.5	9.0	7.5	1.5	---	---	.0	.0	.5	.0	---	---
6	15.0	8.0	8.0	4.0	.0	.0	.5	.0	.5	.0	---	---
7	13.5	7.5	8.5	4.0	.5	.0	3.0	.5	.5	.0	8.0	3.0
8	14.5	7.0	8.0	4.0	2.5	.0	4.0	3.0	.0	.0	9.0	.5
9	14.5	7.0	5.0	3.5	5.5	1.5	4.0	1.5	.5	.0	10.0	3.0
10	13.5	8.0	6.0	1.0	4.5	1.0	4.5	2.0	3.5	.0	7.0	4.5
11	14.5	7.0	7.5	3.5	6.0	3.5	3.5	.5	.5	.0	8.0	4.5
12	10.5	6.5	7.5	3.0	5.5	1.0	2.5	.0	3.0	.0	7.5	4.5
13	12.0	5.0	7.5	4.0	1.5	.5	.0	.0	5.0	.0	10.0	1.0
14	10.5	7.0	7.5	4.5	2.5	.0	.0	.0	3.5	.0	11.0	1.5
15	7.0	5.0	7.0	1.5	2.5	.0	.0	.0	5.5	.0	10.0	2.5
16	9.0	3.0	6.0	2.0	3.5	.5	.0	.0	6.0	.0	11.0	2.0
17	8.5	4.5	7.5	3.5	1.5	.0	.0	.0	5.0	1.5	9.5	2.0
18	8.0	3.5	6.5	1.0	3.5	.0	4.5	.0	6.5	.5	9.5	3.0
19	7.0	4.0	5.5	.5	5.5	.5	6.0	1.5	6.0	.0	11.5	3.5
20	9.0	4.0	6.0	.0	4.0	1.5	4.0	.0	7.5	2.5	11.0	2.0
21	7.5	5.0	6.5	1.0	2.0	.0	3.5	1.0	6.5	2.5	10.5	1.5
22	8.0	4.0	7.0	2.5	.0	.0	3.5	.0	5.5	.5	8.0	.5
23	7.5	5.0	6.0	1.5	.5	.0	2.5	.0	6.5	.5	11.5	1.0
24	9.0	3.5	6.5	1.5	2.0	.0	1.0	.0	6.5	.0	13.0	2.5
25	9.0	3.0	5.5	2.5	.0	.0	.5	.0	6.0	1.5	12.0	3.5
26	9.5	3.0	4.0	1.5	4.0	.0	2.0	.0	8.0	1.0	7.5	3.5
27	9.0	5.0	---	---	5.5	3.5	5.0	1.0	6.0	.0	5.0	1.5
28	9.0	3.0	---	---	6.0	3.5	5.0	.5	8.0	.5	8.5	1.5
29	10.5	4.0	---	---	6.5	2.5	4.0	1.0	---	---	5.0	.5
30	10.0	5.0	---	---	4.5	1.0	3.0	.5	---	---	9.5	.5
31	9.0	5.5	---	---	4.0	1.5	.5	.0	---	---	8.0	3.0
MONTH	15.5	3.0	9.5	.0	6.5	.0	6.0	.0	8.0	.0	13.0	.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.5	3.0	12.5	7.0	16.5	10.0	20.5	10.5	17.5	11.0	18.5	12.5
2	14.5	3.5	16.0	7.0	19.0	9.5	20.5	12.0	18.5	11.5	16.5	12.5
3	11.0	4.0	15.0	8.0	18.5	10.0	21.0	12.0	18.0	11.0	16.5	10.5
4	6.5	3.5	13.5	9.0	20.5	10.5	20.0	12.0	18.5	10.0	18.0	10.5
5	11.0	1.5	14.5	8.5	16.0	11.0	20.5	12.0	17.0	11.0	18.0	10.0
6	13.0	3.5	12.0	8.5	15.5	11.0	18.5	12.5	17.5	11.0	18.0	9.5
7	12.5	4.5	15.5	7.5	20.0	11.0	20.5	12.5	18.5	10.5	14.0	9.5
8	11.0	5.0	16.0	8.0	21.5	12.5	21.5	13.0	19.0	10.5	17.5	8.5
9	11.5	7.0	12.5	9.0	17.5	12.5	21.0	13.5	19.0	11.5	17.5	10.5
10	12.0	4.5	13.5	9.0	18.5	12.5	21.5	13.5	18.5	9.0	15.0	9.0
11	12.0	5.5	11.5	7.5	17.5	10.5	19.0	13.5	18.0	11.5	13.5	9.5
12	12.0	6.0	10.5	7.5	21.0	10.5	19.0	14.0	18.0	9.5	17.0	8.5
13	12.5	5.0	12.0	6.5	21.5	12.0	23.5	13.0	17.5	8.5	17.0	8.0
14	13.5	5.5	15.0	6.0	22.0	12.0	21.0	12.5	18.0	9.5	18.0	9.0
15	12.0	6.5	16.5	8.0	23.0	12.0	19.5	12.5	18.0	9.0	17.0	12.0
16	13.0	6.5	12.5	8.5	19.5	12.5	17.5	12.5	17.0	9.5	18.5	10.5
17	12.0	7.5	14.5	9.0	22.5	12.0	18.5	13.0	17.5	9.5	17.5	10.5
18	11.5	7.5	13.5	9.0	22.5	12.0	19.5	13.5	17.5	11.5	15.0	10.5
19	10.5	6.5	15.5	9.0	23.5	11.5	19.5	13.0	18.5	10.5	17.5	11.0
20	8.5	4.0	14.0	9.0	22.5	12.5	20.0	13.0	18.5	10.0	14.0	8.5
21	10.0	3.0	13.0	9.0	24.5	14.0	18.0	13.0	16.0	11.5	15.5	9.0
22	8.0	5.0	17.0	9.0	22.5	11.5	19.0	12.5	18.5	11.0	13.5	10.0
23	12.0	3.0	19.0	9.0	21.5	12.0	17.5	12.0	18.0	9.5	15.0	7.5
24	12.0	6.5	18.0	10.0	19.5	12.5	19.0	12.0	17.5	8.5	12.5	9.0
25	10.0	5.0	16.5	11.5	15.5	10.5	19.0	12.0	18.0	9.0	16.0	8.5
26	9.0	5.0	19.5	11.0	16.5	8.5	16.5	11.5	17.5	9.5	---	---
27	14.0	5.5	20.5	10.5	18.5	8.0	18.5	11.5	16.0	10.5	---	---
28	15.0	7.5	18.5	10.0	18.5	9.5	17.0	11.0	17.5	11.0	---	---
29	12.5	8.5	19.0	9.5	17.5	10.0	18.0	12.0	16.5	10.5	---	---
30	15.0	6.5	18.0	9.0	18.5	10.0	17.5	11.0	18.0	10.0	---	---
31	---	---	15.0	8.5	---	---	19.5	11.0	18.5	11.0	---	---
MONTH	15.0	1.5	20.5	6.0	24.5	8.0	23.5	10.5	19.0	8.5	18.5	7.5
YEAR	24.5	.0										

09306061 PICEANCE CREEK ABOVE HUNTER CREEK NEAR RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	37	---	15	27	---	15	25	---	10
2	40	---	15	30	168	14	25	---	10
3	39	---	15	36	---	15	25	---	10
4	39	---	15	36	---	15	26	---	10
5	36	---	15	39	---	15	27	---	10
6	39	---	20	39	---	15	26	117	8.2
7	39	---	20	39	---	15	24	---	8.0
8	38	---	20	39	---	15	23	---	8.0
9	36	---	20	42	---	20	22	---	8.0
10	39	---	20	40	---	20	19	---	8.0
11	36	---	20	43	---	20	19	---	10
12	41	---	25	42	---	20	20	---	10
13	42	---	25	49	166	22	21	---	10
14	45	---	25	55	---	20	22	---	10
15	35	---	25	55	---	20	26	---	10
16	34	---	25	51	---	20	21	---	12
17	38	226	23	45	---	20	21	---	12
18	38	---	25	43	---	20	20	269	15
19	39	---	25	39	---	20	20	---	14
20	36	---	25	38	---	20	21	---	14
21	39	---	25	37	---	20	21	---	15
22	39	---	25	38	---	20	21	---	15
23	40	---	25	39	---	20	22	---	20
24	39	---	25	34	---	20	23	---	20
25	35	---	25	36	---	20	23	---	20
26	33	---	20	39	---	20	23	---	20
27	33	---	20	37	---	20	24	---	15
28	33	---	20	36	201	20	28	---	15
29	30	---	20	30	---	15	27	---	15
30	27	---	15	25	---	10	27	---	15
31	26	---	15	---	---	---	27	---	15
TOTAL	1140	---	653	1178	---	546	719	---	392.2
		JANUARY			FEBRUARY			MARCH	
1	27	---	20	26	---	10	29	---	30
2	27	---	30	26	---	10	31	---	30
3	27	568	41	26	---	10	31	---	30
4	27	---	40	25	---	5.0	26	---	25
5	27	---	40	25	---	5.0	27	---	25
6	28	---	40	25	---	5.0	32	---	25
7	28	---	20	25	49	3.3	33	---	25
8	31	---	20	25	---	5.0	33	280	25
9	31	---	20	24	---	15	42	633	72
10	30	256	21	24	---	30	46	---	281
11	29	---	20	24	---	45	48	---	300
12	30	---	20	24	747	48	46	2270	282
13	30	---	30	23	---	40	44	1480	176
14	30	---	25	23	---	40	45	1530	186
15	30	---	25	24	---	40	54	2010	293
16	29	298	23	25	---	40	56	1820	275
17	28	---	25	25	---	40	57	2060	317
18	28	---	20	25	---	40	60	---	325
19	28	---	20	26	---	40	57	---	310
20	29	---	20	28	581	44	65	---	350
21	27	---	20	28	---	40	66	---	355
22	27	---	25	27	---	40	63	---	340
23	29	---	30	25	---	40	48	---	260
24	29	---	35	25	---	40	45	---	240
25	28	582	44	25	---	40	57	---	310
26	27	---	40	25	600	40	72	---	390
27	27	---	20	25	---	35	50	---	180
28	26	---	10	27	---	35	41	---	125
29	27	182	13	---	---	---	42	---	225
30	26	---	10	---	---	---	39	---	210
31	26	---	15	---	---	---	48	---	250
TOTAL	873	---	782	705	---	825.3	1433	---	6267

09306061 PICEANCE CREEK ABOVE HUNTER CREEK NEAR RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	47	---	300	434	12500	14600	135	825	301
2	48	---	400	473	15000	19200	132	850	303
3	65	---	500	514	---	20800	126	936	318
4	97	3420	896	540	---	22500	122	910	300
5	75	---	700	549	---	23700	115	---	260
6	78	---	800	475	---	16000	103	---	220
7	92	---	1000	465	---	15500	98	---	200
8	97	---	1200	411	---	11700	90	---	170
9	114	---	1600	397	---	10000	87	---	150
10	122	---	2000	358	---	8000	85	---	130
11	137	7130	2640	343	---	6000	79	---	110
12	158	---	3000	333	---	5000	61	577	95
13	151	---	2800	322	---	4000	64	---	150
14	148	---	2500	303	3560	2910	70	---	250
15	162	---	2800	255	2760	1900	65	---	350
16	155	---	2600	241	2790	1820	64	2170	375
17	152	---	2400	231	2610	1630	64	3920	677
18	159	---	2000	225	2190	1330	61	1810	298
19	179	---	2500	225	1820	1110	64	1310	226
20	163	---	2400	208	1720	966	66	985	176
21	155	---	2200	204	1520	837	55	1090	162
22	147	---	2200	201	1280	695	46	1120	139
23	120	---	2300	200	1200	648	50	950	128
24	146	---	2800	194	1230	644	66	831	148
25	208	---	3800	180	1400	680	74	836	167
26	182	---	3400	178	1320	634	71	412	79
27	209	---	3800	167	1180	532	59	1360	217
28	268	---	5100	161	1250	543	59	1450	231
29	313	8840	7470	156	1280	539	59	---	240
30	377	11300	11500	142	883	339	58	---	260
31	---	---	---	130	682	239	---	---	---
TOTAL	4524	---	79606	9215	---	194996	2348	---	6830
		JULY			AUGUST			SEPTEMBER	
1	63	1850	315	57	773	119	29	266	21
2	59	1540	245	59	4590	731	29	---	22
3	61	1030	170	57	2440	376	31	167	14
4	59	848	135	54	4790	698	31	119	10
5	59	767	122	51	771	106	39	88	9.3
6	49	918	121	52	1000	140	30	150	12
7	55	1150	171	54	686	100	25	143	9.7
8	57	935	144	48	514	67	25	79	5.3
9	48	552	72	56	---	70	26	136	9.5
10	50	---	140	48	---	60	25	60	4.1
11	52	753	106	48	---	50	18	---	2.9
12	67	5420	980	46	---	40	14	---	2.0
13	62	1000	167	49	---	30	13	39	1.4
14	56	1010	153	52	153	21	13	66	2.3
15	51	1160	160	51	517	71	13	43	1.5
16	43	816	95	50	848	114	14	42	1.6
17	40	3060	330	47	822	104	13	43	1.5
18	47	2930	372	43	498	58	14	26	.98
19	53	2080	298	48	439	57	14	53	2.0
20	54	1200	175	41	302	33	8.6	34	.79
21	63	1880	320	43	239	28	6.8	70	1.3
22	54	1140	166	47	224	28	9.2	---	1.5
23	93	8400	2110	44	183	22	16	---	2.2
24	82	2740	607	43	178	21	21	---	2.5
25	62	2040	341	40	147	16	19	---	2.0
26	56	1430	216	39	163	17	19	---	2.0
27	58	2370	371	39	231	24	15	---	2.2
28	61	---	490	41	253	28	23	---	4.0
29	61	3390	558	38	249	26	32	---	6.0
30	59	5020	800	33	396	35	31	---	5.8
31	58	3000	470	31	597	50	---	---	---
TOTAL	1792	---	10920	1449	---	3340	616.6	---	163.37
YEAR	25992.6		305320.87						

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°55'16", long 108°17'49", in sec.32, T.1 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank at downstream side of bridge, 40 ft downstream from Ryan Gulch, and 23 mi northwest of Rio Blanco.

DRAINAGE AREA.--506 mi^2.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR CO-79-3: 1977(M).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,070 ft, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 3, Dec. 7 to Jan. 1, Jan. 4-8, Jan. 13 to Feb. 16, Apr. 28, July 1-19. Records good except for periods with ice effect, Dec. 3, Dec. 7 to Jan. 1, Jan 4-8 and Feb. 12-16, which are fair and periods of estimated daily discharges, Jan. 13 to Feb. 11, Apr. 28 and July 1-19, which are poor. Diversions for irrigation above station.

AVERAGE DISCHARGE.--21 years, 29.5 ft^3/s; 21,370 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 550 ft^3/s, May 5, 1985, gage height, 7.70 ft; maximum gage height, 7.81 ft, May 28, 1983; minimum daily discharge, 0.15 ft^3/s, June 7, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 5	0500	*550	*7.70	July 23	2200	237	6.42
July 12	2100	187	6.12				

Minimum daily discharge, 25 ft^3/s, Sept. 13, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	58	46	42	53	46	60	439	170	77	105	55
2	67	58	44	41	52	51	73	461	160	77	112	53
3	65	57	44	41	50	52	102	484	150	72	106	56
4	66	55	43	42	49	43	83	521	140	68	99	55
5	68	55	43	44	50	42	83	534	130	72	95	50
6	65	56	41	45	50	49	98	500	130	68	94	42
7	62	56	41	46	50	52	105	454	130	73	93	39
8	60	55	41	47	50	51	122	380	120	76	90	42
9	58	53	41	48	46	58	134	359	110	67	89	42
10	57	52	41	49	45	65	142	347	100	66	86	38
11	58	52	41	50	47	78	157	354	96	64	91	34
12	60	53	41	51	51	69	162	341	90	87	94	26
13	65	52	41	52	58	56	164	317	90	109	90	25
14	64	52	41	52	56	58	172	295	86	88	88	28
15	64	51	41	52	52	74	180	273	82	81	86	29
16	62	50	42	52	51	74	202	269	80	69	79	30
17	62	52	42	52	50	74	203	276	78	69	75	27
18	65	50	42	52	49	75	217	279	74	81	72	26
19	64	49	42	52	46	78	242	299	68	86	72	26
20	65	49	42	52	48	82	252	281	64	94	69	26
21	65	49	42	52	51	83	249	273	64	100	71	25
22	64	49	42	52	48	78	240	273	58	98	81	28
23	64	49	42	52	47	65	274	257	62	154	72	34
24	62	50	42	52	44	66	291	255	63	150	73	37
25	61	50	42	52	46	82	297	249	78	121	73	34
26	59	51	42	52	46	90	314	258	86	102	72	34
27	61	47	42	52	44	68	337	247	73	106	71	34
28	59	51	42	50	45	56	360	231	73	116	71	42
29	60	47	42	53	---	56	380	225	68	120	69	51
30	59	46	42	53	---	56	390	208	69	119	63	50
31	59	---	42	53	---	58	---	170	---	109	55	---
TOTAL	1928	1554	1302	1535	1374	1985	6085	10109	2842	2839	2556	1118
MEAN	62.2	51.8	42.0	49.5	49.1	64.0	203	326	94.7	91.6	82.5	37.3
MAX	68	58	46	53	58	90	390	534	170	154	112	56
MIN	57	46	41	41	44	42	60	170	58	64	55	25
AC-FT	3820	3080	2580	3040	2730	3940	12070	20050	5640	5630	5070	2220

CAL YR 1984	TOTAL	33500	MEAN	91.5	MAX	516	MIN	32	AC-FT	66450
WTR YR 1985	TOTAL	35227	MEAN	96.5	MAX	534	MIN	25	AC-FT	69870

09306200 PICEANCE CREEK BELOW RYAN GULCH NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1979 to September 1982.
WATER TEMPERATURE: December 1979 to September 1982.
SUSPENDED-SEDIMENT DISCHARGE: October 1972 to September 1983.

INSTRUMENTATION.--Automatic pumping sediment sampler October 1972 to September 1983. Water-quality monitor December 1979 to September 1982.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum 2,920 microsiemens July 18, 1981; minimum, 520 microsiemens July 18, 1981.
WATER TEMPERATURES: Maximum 26.5°C June 22, 1981; minimum, 0.0°C on many days during the winter period.
SEDIMENT CONCENTRATIONS: Maximum daily, 21,700 mg/L July 20, 1977; minimum daily, 8 mg/L Oct. 14, 1979, several days in Sept. 1981.
SEDIMENT LOADS: Maximum daily, 5,390 tons July 23, 1983; minimum daily, 0.05 ton Sept. 27, 30, 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
FEB											
15...	12:00	52	1340	8.4	0.0	11.3	--	490	81	68	140
MAR											
27...	14:16	69	1210	8.5	4.5	9.7	--	450	82	59	120
MAY											
06...	14:45	499	960	8.4	11.0	8.7	--	380	77	45	77
JUN											
20...	10:40	61	1450	8.5	12.0	8.2	1.7	550	91	78	150
JUL											
17...	11:50	73	1500	8.2	14.0	--	1.5	540	87	78	160
AUG											
21...	13:50	69	1400	8.4	15.5	8.0	2.7	550	95	76	110

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
FEB										
15...	3	2.0	401	330	14	0.7	16	900	1.2	--
MAR										
27...	3	2.6	474	280	14	0.5	14	860	1.2	160
MAY										
06...	2	2.6	271	230	11	0.4	15	620	0.84	838
JUN										
20...	3	3.0	394	370	15	0.6	18	960	1.3	159
JUL										
17...	3	3.4	447	370	16	0.6	17	1000	1.4	198
AUG										
21...	2	2.4	378	370	16	0.6	13	910	1.2	170

DATE	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)
FEB										
15...	--	<0.01	1.40	0.06	0.84	0.9	0.01	0.02	150	2600
MAR										
27...	--	<0.01	1.10	0.08	0.12	0.2	0.03	0.02	110	1900
MAY										
06...	2.98	0.02	3.00	0.09	0.91	1.0	0.02	<0.01	70	1300
JUN										
20...	--	<0.01	1.20	0.07	0.43	0.5	0.04	0.03	170	2800
JUL										
17...	0.97	0.01	0.98	0.03	0.47	0.5	0.03	0.02	190	2700
AUG										
21...	--	<0.01	2.10	0.04	0.56	0.6	0.03	<0.01	150	2100

09306200 PICEANCE CREEK BELOW RYAN GULCH NEAR RIO BLANCO, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	COBALT, DIS-SOLVED (UG/L AS CO)	IRON, DIS-SOLVED (UG/L AS FE)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	ZINC, DIS-SOLVED (UG/L AS ZN)
FEB										
15...	12:00	1	80	<1	11	13	5	2	3	6
MAY										
06...	14:45	3	96	1	8	18	5	6	5	4

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)
NOV					APR				
08...	15:40	56	1320	6.5	17...	13:55	207	966	9.0
DEC					29...	15:10	393	1070	12.0
13...	14:10	41	1340	1.0	MAY				
FEB					23...	14:30	262	1180	12.0
12...	13:30	51	1100	0.5					

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
FEB					JUL				
15...	12:00	52	338	47	17...	11:50	73	624	123
MAY					AUG				
06...	14:45	499	7040	9480	21...	13:50	69	496	92
JUN									
20...	10:40	61	843	139					

09306222 PICEANCE CREEK AT WHITE RIVER, CO

LOCATION.--Lat 40°05'16", long 108°14'35", in SW¼NE¼ sec.2, T.1 N., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 900 ft upstream from mouth, 1.0 mi west of White River City, and 17 mi west of Meeker.

DRAINAGE AREA.--652 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1964 to September 1966, October 1970 to current year.

REVISED RECORDS.--WDR-CO-82-3: drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,705 ft, from topographic map. Oct. 1, 1964, to Sept. 30, 1966, and Oct. 1, 1970, to July 12, 1974, at several sites 1.1 mi upstream at different datums.

REMARKS.--Estimated daily discharges: Oct. 17-23, Nov. 20 to Mar. 18, Mar. 28 to Apr. 1, May 1, 6, June 19 to July 24, Aug. 21 to Sept. 30. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 5,500 acres above station.

AVERAGE DISCHARGE.--17 years, 38.0 ft³/s; 27,530 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 628 ft³/s, Sept. 7, 1978, gage height, 7.04 ft, on basis of slope-area measurement of peak flow; minimum daily, 0.50 ft³/s, July 21, 22, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s, and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 6	1300	*505	*6.01	July 24	unknown	a260	----
July 13	unknown	a210	----				

a-on basis of runoff comparisons with nearby stations

Minimum daily discharge, 29 ft³/s, Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	74	51	47	58	52	74	470	197	84	122	59
2	80	68	51	47	57	56	99	484	182	84	128	58
3	78	66	51	48	56	58	102	481	178	78	126	61
4	82	64	49	48	54	50	120	466	165	76	118	60
5	82	63	49	50	54	48	113	477	159	80	118	55
6	78	64	48	52	54	54	107	498	149	76	114	47
7	76	68	48	53	54	56	118	469	135	78	112	45
8	75	68	48	54	54	56	131	436	120	82	106	48
9	71	68	47	56	52	66	181	415	115	78	105	48
10	69	66	47	57	50	77	174	405	122	80	102	44
11	70	63	47	57	56	85	185	397	120	90	104	40
12	75	63	46	57	62	80	209	396	113	110	108	37
13	80	62	46	58	66	76	226	381	104	120	102	30
14	80	63	46	58	64	78	234	349	93	100	102	32
15	80	62	46	58	60	90	243	320	86	90	101	33
16	79	59	46	58	58	90	252	302	77	90	98	34
17	79	58	46	58	56	92	267	304	75	89	91	32
18	80	59	46	58	54	94	279	297	71	90	88	30
19	80	59	46	57	53	101	311	304	74	96	86	30
20	80	58	46	56	56	101	335	309	70	110	82	30
21	80	58	47	56	60	101	334	291	70	115	74	29
22	80	58	47	56	56	102	316	287	68	110	85	36
23	79	58	47	56	54	99	294	273	70	165	75	39
24	73	59	47	56	49	98	298	258	78	160	76	41
25	74	59	47	56	50	97	348	249	85	139	76	39
26	70	61	47	56	50	103	367	250	94	127	75	39
27	73	56	47	56	49	101	364	236	80	124	75	39
28	74	58	47	54	50	86	376	225	80	130	75	50
29	70	54	47	58	---	67	391	217	78	132	73	61
30	71	52	47	58	---	68	458	205	78	132	67	60
31	70	---	47	58	---	70	---	195	---	129	59	---
TOTAL	2358	1848	1467	1707	1546	2452	7306	10646	3186	3244	2923	1286
MEAN	76.1	61.6	47.3	55.1	55.2	79.1	244	343	106	105	94.3	42.9
MAX	82	74	51	58	66	103	458	498	197	165	128	61
MIN	69	52	46	47	49	48	74	195	68	76	59	29
AC-FT	4680	3670	2910	3390	3070	4860	14490	21120	6320	6430	5800	2550

CAL YR 1984	TOTAL	36557	MEAN	99.9	MAX	506	MIN	18	AC-FT	72510
WTR YR 1985	TOTAL	39969	MEAN	110	MAX	498	MIN	29	AC-FT	79280

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January 1971 to June 1974, May 1975 to September 1983.
WATER TEMPERATURES: January 1971 to September 1974, May 1975 to September 1983.
SUSPENDED-SEDIMENT DISCHARGE: March 1974 to September 1983.

INSTRUMENTATION.--Water-quality monitor May 1975 to September 1983. Pumping sediment sampler March 1974 to September 1983.

REMARKS.--The maximum extreme specific conductance value of 10,000 microsiemens represents a value of 10,000 microsiemens or higher due to instrument limitations.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 10,000 microsiemens June 18, 1981; minimum, 460 microsiemens February 28 and March 2, 1983.
WATER TEMPERATURES: Maximum, 32.0°C July 14, 1978; minimum, 0.0°C many days during winter months.
SEDIMENT CONCENTRATIONS: Maximum daily, 25,000 mg/L estimated Sept. 7, 1978; 4 mg/L Oct. 2, 1977.
SEDIMENT LOADS: Maximum daily, 6,095 tons estimated May 28, 1983; minimum daily, 0.10 ton June 22, 1978.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
FEB											
15...	10:45	60	1670	8.3	0.0	11.7	--	470	74	68	230
MAR											
27...	12:45	95	1340	8.5	5.0	8.3	--	410	71	57	170
MAY											
06...	12:15	503	1020	8.5	11.0	8.1	--	370	72	47	98
JUN											
20...	09:00	57	1540	8.5	12.0	8.0	2.2	470	70	71	200
JUL											
17...	09:45	89	1530	8.4	15.0	--	1.7	470	68	73	190
AUG											
21...	14:30	74	1540	8.5	18.0	7.6	2.6	460	65	72	200

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
FEB										
15...	5	2.2	525	340	31	0.9	18	1100	1.5	--
MAR										
27...	4	2.7	555	210	16	0.5	13	880	1.2	224
MAY										
06...	2	2.8	291	240	14	0.4	16	670	0.9	905
JUN										
20...	4	2.7	406	360	24	0.7	17	990	1.3	153
JUL										
17...	4	3.1	432	360	23	0.7	16	1000	1.4	239
AUG										
21...	4	2.5	428	380	24	0.7	17	1000	1.4	204

DATE	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)
FEB										
15...	1.49	0.01	1.50	0.09	0.91	1.0	0.07	0.04	80	2400
MAR										
27...	--	<0.01	1.10	0.09	0.21	0.3	0.02	0.03	110	1800
MAY										
06...	2.88	0.02	2.90	0.08	1.3	1.4	0.02	0.03	100	1400
JUN										
20...	--	<0.01	1.70	0.06	0.44	0.5	0.03	0.03	210	2200
JUL										
17...	--	<0.01	1.30	0.03	0.37	0.4	0.02	0.01	210	2300
AUG										
21...	--	<0.01	2.00	0.05	0.55	0.6	0.02	<0.01	210	2300

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	COBALT, DIS-SOLVED (UG/L AS CO)	IRON, DIS-SOLVED (UG/L AS FE)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	ZINC, DIS-SOLVED (UG/L AS ZN)
FEB										
15...	10:45	2	100	1	910	25	32	2	4	21
MAY										
06...	12:15	3	91	<1	15	19	5	10	2	<3

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)
NOV					APR				
14...	11:02	63	1500	5.5	17...	15:40	267	1040	12.0
DEC					30...	15:20	460	1130	12.0
05...	10:20	39	1380	0.5	MAY				
					23...	17:10	285	1220	13.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
FEB					JUN				
15...	10:45	60	171	28	20...	09:00	57	1130	174
MAR					JUL				
27...	12:45	95	2380	610	17...	09:45	89	844	203
MAY					AUG				
06...	12:15	503	7420	10100	21...	14:30	74	1730	346

09306224 WHITE RIVER ABOVE CROOKED WASH, NEAR WHITE RIVER CITY, CO

LOCATION.--Lat 40°09'44", long 108°20'33", in NW¼NW¼ sec.12, T.2 N., R.98 W., Rio Blanco county, Hydrologic Unit 14050005, on right bank 15 ft upstream from County Road 77 bridge, 2.8 mi upstream from Crooked Wash, 9.8 mi downstream from Piceance Creek and 8.0 mi northwest of White River City.

DRAINAGE AREA.--1,821 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 5,590 ft, from topographic map. Oct. 1, 1982 to Aug. 15, 1983, at site 0.25 mi upstream, at datum 3.12 ft, higher.

REMARKS.--Estimated daily discharges: Oct. 21-24, Nov. 16 to Apr. 11, July 14 to Aug. 5. Records fair except for estimated daily discharges, which are poor. Diversions above station for irrigation of about 31,900 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,370 ft³/s June 7, 1984, gage height 8.05 ft; minimum daily, 300 ft³/s, Jan. 1-7, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,350 ft³/s at 2100 June 10, gage height, 6.76 ft; minimum daily, 380 ft³/s, Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	853	736	590	430	380	480	734	2430	3200	1710	840	498
2	840	712	590	400	430	500	763	2620	2960	1620	820	501
3	830	719	560	400	460	510	830	2870	2890	1590	820	531
4	880	699	560	420	450	480	890	3170	2930	1540	810	506
5	920	688	560	430	440	480	780	3530	2930	1510	810	492
6	880	713	520	450	470	520	720	3740	3010	1490	827	466
7	820	703	520	450	490	520	820	3680	3070	1440	740	472
8	780	715	530	450	540	520	850	3580	3300	1370	705	486
9	770	710	550	430	500	630	930	3720	3780	1360	713	490
10	770	710	610	420	480	780	1000	3680	4150	1250	705	483
11	790	708	590	420	480	840	1080	3840	4090	1270	696	502
12	850	714	590	400	500	770	1240	3630	3910	1250	739	540
13	880	679	570	400	490	720	1220	3290	3780	1230	728	523
14	860	679	570	410	480	760	1280	2870	3710	1200	657	516
15	870	713	560	430	480	810	1420	2710	3650	1170	660	531
16	840	650	540	440	470	820	1600	2630	3630	1150	659	580
17	780	660	540	440	460	840	1770	2660	3560	1100	608	595
18	794	650	540	440	450	860	1940	2840	3330	1080	601	550
19	794	620	555	450	450	900	2160	2970	3200	1050	599	620
20	780	585	560	450	450	870	2220	2920	2960	1100	560	640
21	780	670	540	430	450	850	2180	2820	2830	1030	540	650
22	770	650	520	430	450	790	1990	2900	2730	1050	558	700
23	770	640	500	440	450	700	1830	2860	2590	1200	549	720
24	761	640	520	420	450	700	1830	2980	2460	1150	547	750
25	747	650	500	420	450	750	1850	3160	2330	1080	553	740
26	750	650	500	440	450	820	1850	3270	2740	1080	536	700
27	790	590	510	440	450	800	1780	3290	2580	1120	508	690
28	760	580	500	430	460	700	1820	3370	2150	1080	500	700
29	758	580	480	430	---	654	1970	3380	1930	1000	502	740
30	754	600	470	420	---	677	2230	3430	1820	960	504	680
31	744	---	460	400	---	706	---	3300	---	880	497	---
TOTAL	24965	20013	16705	13260	12960	21757	43577	98140	92200	38110	20091	17592
MEAN	805	667	539	428	463	702	1453	3166	3073	1229	648	586
MAX	920	736	610	450	540	900	2230	3840	4150	1710	840	750
MIN	744	580	460	400	380	480	720	2430	1820	880	497	466
AC-FT	49520	39700	33130	26300	25710	43160	86430	194700	182900	75590	39850	34890

CAL YR 1984 TOTAL 505096 MEAN 1380 MAX 5960 MIN 360 AC-FT 1002000
WTR YR 1985 TOTAL 419370 MEAN 1149 MAX 4150 MIN 380 AC-FT 831800

09306224 WHITE RIVER ABOVE CROOKED WASH NEAR WHITE RIVER CITY,CO--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
MAR 29...	09:35	648	840	8.5	3.0	--	--	390	94	37
JUN 13...	10:45	3520	350	8.3	12.0	8.5	0.42	170	45	14
AUG 01...	11:00	904	624	8.4	18.0	--	0.67	270	66	25

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
MAR 29...	60	1	2.1	210	250	19	0.2	15	600
JUN 13...	13	0.4	1.4	153	61	3.7	0.1	13	240
AUG 01...	33	0.9	1.7	174	140	8.0	0.2	13	390

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
MAR 29...	0.82	1060	<0.01	0.47	0.11	0.19	0.3	<0.01	0.02
JUN 13...	0.33	2310	<0.01	0.22	0.04	0.16	0.2	0.02	0.02
AUG 01...	0.53	955	<0.01	0.17	0.02	0.48	0.5	<0.01	<0.01

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ANTI-MONY, DIS-SOLVED (UG/L AS SB)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)
JUN 13...	10:45	20	1	1	35	<0.5	20	<1	<1	<1	5

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
JUN 13...	32	3	6	4	0.1	2	2	1	<1	350	7

09306224 WHITE RIVER ABOVE CROOKED WASH NEAR WHITE RIVER CITY,CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)
OCT				
24...	14:25	780	648	5.5
NOV				
30...	14:20	620	675	1.0
APR				
23...	11:00	1880	750	5.0
MAY				
24...	11:35	3300	445	12.0
AUG				
23...	12:05	545	719	17.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
JUN				
13...	10:45	3520	554	5270
AUG				
01...	11:00	904	148	361

09306235 CORRAL GULCH BELOW WATER GULCH, NEAR RANGELY, CO

LOCATION.--Lat 39°54'22", long 108°31'56", in SE¼NW¼ sec.5, T.2 S., R.99 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 0.1 mi downstream from Water Gulch and 19 mi southeast of Rangely.

DRAINAGE AREA.--8.61 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1974 to current year.

GAGE.--Water-stage recorder. Concrete control since Aug. 1, 1974. Prior to Aug. 1, 1974, water-stage recorder at different datum. Elevation of gage is 6,975 ft, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 2, 4, 5, 22, 23, 25, Jan. 1-3, 12-14, Apr. 4-8, May 14 to June 13. Records good except those above 28 ft^3/s, which are fair, and estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--11 years, 1.01 ft^3/s; 732 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge determined, 272 ft^3/s, July 23, 1977, gage height, 3.20 ft, maximum gage height, 13.50 ft, May 31, 1983 (from mud flow); no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 44 ft^3/s at 1700 July 19, gage height, 2.26 ft; minimum daily, 0.25 ft^3/s, Feb. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	.78	.41	.37	1.2	.44	4.4	10	5.0	1.8	1.0	.85
2	1.3	.78	.41	.42	1.2	.41	6.9	12	4.9	1.7	1.0	.93
3	1.2	.78	.41	.33	1.2	.71	9.2	12	4.7	1.6	.93	1.3
4	1.4	.71	.41	.33	1.1	.33	5.4	12	4.6	1.5	.85	1.2
5	1.2	.64	.41	.33	1.1	.41	4.4	12	4.5	1.5	.87	1.2
6	1.2	.64	.40	.33	.59	.41	4.6	13	4.4	1.4	.93	1.2
7	1.2	.64	.33	.33	.25	.41	4.6	14	4.3	1.4	.93	1.2
8	1.1	.64	.33	.33	.25	.51	4.6	14	4.2	1.4	.93	1.1
9	1.0	.64	.29	.37	.29	.46	4.4	13	4.1	1.5	1.2	1.0
10	1.0	.58	.29	.37	.29	.58	4.1	14	4.0	1.5	1.2	1.1
11	1.0	.58	.40	.41	.29	.64	3.1	14	3.8	1.5	1.2	1.2
12	1.2	.58	.41	.38	.33	.33	3.5	13	3.6	1.5	1.3	1.1
13	1.1	.58	.41	.41	.33	.33	4.9	13	3.5	1.4	1.2	1.1
14	1.1	.58	.41	.41	.33	.33	5.1	12	3.3	1.3	1.2	1.1
15	1.1	.52	.41	.37	.38	.52	4.9	12	3.1	1.1	1.2	1.1
16	1.1	.52	.37	.37	.41	.64	3.9	11	2.9	1.7	1.1	1.2
17	1.0	.52	.33	.37	.33	.58	2.2	10	2.7	1.5	1.1	1.2
18	1.0	.46	.46	.37	.29	.58	6.0	9.6	2.5	1.4	1.1	1.1
19	1.0	.46	.46	.37	.37	1.8	6.6	9.2	2.4	2.6	1.0	1.1
20	1.0	.41	.37	.41	.52	1.7	7.3	8.4	2.2	1.4	1.0	1.1
21	1.0	.41	.46	.45	.46	1.5	8.0	7.8	2.1	1.3	1.0	1.1
22	1.0	.37	.49	.41	.43	.65	8.0	7.4	2.1	1.3	1.1	1.1
23	1.0	.37	.46	.37	.41	.37	6.3	7.0	1.9	1.4	1.1	1.1
24	1.0	.41	.46	.41	.29	2.9	3.9	6.5	2.1	1.3	1.0	1.1
25	.93	.41	.46	.46	.46	5.7	6.0	6.0	2.1	1.3	1.0	1.1
26	.85	.41	.46	.41	.52	4.9	8.4	6.2	1.9	1.3	.93	1.1
27	.85	.41	.46	.41	.46	4.4	8.0	6.0	1.9	1.2	.93	1.1
28	.78	.41	.41	.41	.41	4.1	8.4	5.8	1.9	1.3	.85	1.1
29	.78	.41	.37	.42	---	4.4	8.8	5.6	1.8	1.4	.85	1.0
30	.78	.41	.37	.41	---	4.4	9.6	5.4	1.8	1.2	.85	1.0
31	.85	---	.37	1.1	---	4.4	---	5.2	---	1.1	.85	---
TOTAL	32.32	16.06	12.49	12.64	14.49	49.84	175.5	307.1	94.3	44.8	31.70	33.18
MEAN	1.04	.54	.40	.41	.52	1.61	5.85	9.91	3.14	1.45	1.02	1.11
MAX	1.4	.78	.49	1.1	1.2	5.7	9.6	14	5.0	2.6	1.3	1.3
MIN	.78	.37	.29	.33	.25	.33	2.2	5.2	1.8	1.1	.85	.85
AC-FT	64	32	25	25	29	99	348	609	187	89	63	66

CAL YR 1984	TOTAL	1389.68	MEAN	3.80	MAX	42	MIN	.29	AC-FT	2760
WTR YR 1985	TOTAL	824.42	MEAN	2.26	MAX	14	MIN	.25	AC-FT	1640

09306235 CORRAL GULCH BELOW WATER GULCH, NEAR RANGELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1974 to September 1985 (discontinued).
WATER TEMPERATURE: April 1974 to September 1985 (discontinued).
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to September 1982.

INSTRUMENTATION.--Water-quality monitor April 1974 to September 1985. Pumping sediment sampler October 1974 to September 1982.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 6,490 microsiemens Dec. 19, 1981; minimum, 230 microsiemens Mar. 20, 1978.
WATER TEMPERATURES: Maximum, 33.5°C June 11, 1981; minimum, freezing point many days during winter months each year.
SEDIMENT CONCENTRATIONS: Maximum daily, 17,800 mg/L July 26, 1981; no flow many days during 1974-78, 1981.
SEDIMENT LOADS: Maximum daily, 162 tons May 20, 1979; no flow many days during 1974-78, Dec. 15, 1979, 1981.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Not determined.
WATER TEMPERATURES: Maximum, 24.0°C July 9; minimum 0.0°C many days October to March.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
JAN										
30...	11:00	1.6	1550	0.0	11.1	720	140	89	120	2
MAY										
07...	11:45	15	1350	12.0	--	630	120	80	110	2

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
JAN										
30...	1.1	297	<0.5	580	25	0.2	22	1280	1200	1.6
MAY										
07...	2.4	288	<0.5	480	19	0.3	24	1120	1000	1.4

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
JAN									
30...	5.0	<0.01	7.50	0.05	0.95	1.0	0.01	0.01	<0.1
MAY									
07...	41	<0.01	6.00	0.08	1.3	1.4	<0.01	0.01	14

09306235 CORRAL GULCH BELOW WATER GULCH, NEAR RANGELY, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	LITHIUM DIS-SOLVED (UG/L AS LI)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)
JAN 30...	4	100	7	35	<0.1	<1	15	2700	6
MAY 07...	5	90	13	34	<0.1	26	17	2100	8

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAY 07...	11:45	15	1370	55

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	1680	1620	---	---	1260	---	---	1460	1490	1630	---
2	---	1690	1660	---	---	1330	---	---	1470	1500	1640	---
3	1640	1670	1650	1600	1560	1250	---	---	1480	1540	1650	1310
4	1600	1600	1670	1680	1590	1190	---	---	1480	1590	1660	1600
5	1660	1620	1720	1690	1640	1250	---	---	1490	1600	1670	1610
6	1650	1650	1750	1640	1600	1150	---	1440	1500	1610	1680	1580
7	1650	1680	1720	1600	1590	1200	---	1440	1510	1600	1690	1580
8	1650	1640	1710	1600	1500	1180	---	1420	1510	1620	1700	1550
9	1660	1630	1710	1600	1500	---	1380	1400	1520	1620	1690	---
10	1660	1650	1700	1600	1490	---	1290	1420	1530	1600	1660	---
11	1670	1620	1680	1600	1520	---	849	1410	1540	1590	1640	---
12	1610	1620	1670	1620	1530	1470	1340	1430	1540	1570	1620	---
13	1660	1620	1670	1630	1540	1450	1240	1450	1540	1550	1640	---
14	1650	1620	1670	1590	1540	1260	---	1460	1540	1540	1630	---
15	1670	1620	1660	1610	1470	1090	---	1460	1530	1530	1620	---
16	1670	1600	1660	1590	1370	---	---	1450	1530	1530	1610	---
17	1660	1610	1670	1600	1410	---	---	1450	1520	1570	1560	---
18	1670	1620	1640	1590	1450	---	---	1450	1530	1570	---	---
19	1660	1620	1630	1580	1380	---	---	1460	1530	1500	---	---
20	1660	1610	1590	1580	1250	---	---	1470	1520	---	---	---
21	1650	1600	1620	1560	1380	---	---	1470	1520	---	---	---
22	1650	1590	1610	1580	1350	---	---	1480	1530	---	---	---
23	1640	1590	---	1580	1380	---	---	1480	1550	---	---	---
24	1650	1600	---	1590	1260	---	---	1480	1550	---	---	---
25	1660	1580	---	1580	1430	---	---	1460	1520	1600	---	---
26	1660	1600	---	1570	1320	---	---	1450	1550	1610	---	---
27	1640	1630	---	1570	1300	---	---	1440	1550	1620	---	---
28	1680	1570	---	1560	1280	---	---	1440	1540	1580	---	---
29	1670	1590	---	1570	---	---	---	1450	1520	1580	---	---
30	1680	1610	---	1580	---	---	---	1460	1520	1620	---	---
31	1660	---	---	1670	---	---	---	1450	---	1620	---	---

09306235 CORRAL GULCH BELOW WATER GULCH, NEAR RANGELY, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	13.5	5.0	7.5	1.0	3.0	.0	1.0	.0	.0	.0	7.5	.0
2	14.0	6.5	9.0	1.5	.0	.0	.5	.0	---	---	6.5	.5
3	14.5	5.5	7.5	2.0	4.0	.0	1.5	.0	3.0	1.0	4.5	.0
4	11.0	8.0	7.0	1.0	1.0	.0	2.0	.0	2.5	.0	4.5	.0
5	13.5	6.5	8.0	.5	1.5	.0	3.0	.0	2.5	.0	6.0	.0
6	13.5	5.5	8.0	3.0	.5	.0	4.0	1.5	2.5	.5	8.0	.0
7	13.5	4.5	7.5	2.5	2.5	.0	4.5	2.0	3.0	.0	7.5	.0
8	15.5	4.5	7.0	.0	3.5	.5	4.0	3.0	3.0	1.5	8.5	.0
9	15.0	4.5	5.5	.0	4.0	1.5	4.0	1.0	3.0	2.0	10.0	1.0
10	14.0	5.0	4.5	.0	4.5	1.5	4.0	.5	3.0	.0	---	---
11	13.5	4.5	7.5	1.5	4.5	1.5	4.0	.0	3.5	.0	---	---
12	7.5	3.5	8.0	1.5	4.0	.5	1.5	.0	4.0	1.0	9.5	.0
13	12.5	2.5	7.5	2.5	1.5	.5	1.0	.0	4.5	1.0	10.5	.0
14	9.5	3.0	5.0	.5	1.5	.0	2.0	.0	4.5	.0	12.0	.0
15	7.0	1.5	4.5	.5	3.0	.0	3.0	.0	4.5	.5	11.0	1.5
16	9.0	1.0	6.5	.5	3.5	.5	3.0	.0	5.0	.5	11.5	.5
17	7.5	.0	6.0	.5	2.0	.0	3.5	.0	5.5	.5	8.5	1.0
18	7.5	1.0	4.5	.0	3.5	.5	4.0	1.0	5.5	.0	9.0	1.5
19	8.0	2.0	4.0	.0	3.5	1.0	4.5	1.0	5.0	.0	10.5	.5
20	8.5	3.0	4.5	.0	4.5	.0	4.5	.5	5.5	2.0	9.5	1.0
21	7.0	3.0	5.0	.0	2.5	.0	3.5	1.0	7.5	.5	11.0	.0
22	9.0	1.5	5.5	1.0	1.0	.0	2.5	.0	6.5	.0	8.5	.0
23	7.5	1.5	6.5	.5	2.5	.0	1.5	.0	6.0	.0	11.5	.0
24	8.0	1.0	6.0	1.0	2.0	.0	1.0	.0	6.0	.0	11.5	1.0
25	8.5	1.0	5.0	1.0	3.0	.0	2.0	.0	6.5	.0	11.5	1.0
26	9.0	1.5	4.0	.0	3.5	.5	3.0	.0	6.0	.0	10.5	.5
27	7.5	.5	1.0	.0	4.5	3.0	4.0	1.0	6.0	.0	5.5	.0
28	7.5	.5	2.5	.5	3.5	3.0	4.0	.5	7.0	.0	10.5	1.0
29	10.0	2.5	3.5	.0	4.5	.5	2.5	.5	---	---	3.0	.0
30	9.5	2.5	3.5	.0	5.5	.5	2.0	.0	---	---	10.0	.0
31	7.5	2.5	---	---	4.5	.0	.0	.0	---	---	12.0	1.5
MONTH	15.5	.0	9.0	.0	5.5	.0	4.5	.0	7.5	.0	12.0	.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	13.0	1.0	15.5	5.5	18.0	6.0	21.5	7.0	23.0	8.0	21.0	9.0
2	15.0	1.0	15.0	5.5	18.5	5.5	22.5	7.5	21.5	9.0	21.5	7.5
3	13.0	1.5	13.5	6.0	16.5	5.5	23.0	7.0	22.0	7.5	20.0	7.0
4	7.5	1.5	10.5	6.5	18.5	5.5	21.0	7.5	22.5	6.5	21.5	7.0
5	12.5	1.0	14.5	6.0	20.0	6.0	23.0	7.5	21.5	8.0	20.0	6.0
6	12.5	2.0	13.0	6.0	18.5	6.5	23.5	7.5	22.5	7.5	19.5	5.0
7	14.0	2.0	14.0	5.5	21.5	7.0	21.0	8.0	22.5	7.0	15.5	5.5
8	13.0	3.0	14.5	5.5	22.0	7.5	23.5	8.0	22.0	7.0	20.0	5.0
9	14.0	4.0	11.5	5.5	21.5	7.5	24.0	8.5	21.5	6.5	19.0	5.5
10	15.5	3.5	13.0	5.5	21.0	6.5	21.0	11.0	21.5	5.0	13.0	4.5
11	14.0	4.0	12.0	5.0	20.5	5.0	23.0	9.0	20.5	8.0	13.5	5.5
12	15.5	4.5	10.0	5.0	21.0	5.5	20.5	9.0	20.5	4.5	15.5	4.0
13	15.5	3.5	11.0	4.5	21.0	6.5	22.0	8.5	21.0	5.0	18.5	3.5
14	16.0	4.0	15.0	4.0	21.5	7.5	22.5	8.0	21.5	6.0	19.0	4.0
15	15.0	4.0	16.0	5.0	22.0	6.5	22.0	8.5	21.0	5.5	19.5	6.5
16	15.0	5.0	12.5	6.0	20.0	7.0	23.0	8.0	18.5	6.0	18.5	5.5
17	14.5	5.5	16.5	5.5	22.0	7.0	19.0	10.0	21.5	6.0	18.0	5.5
18	12.0	5.5	16.5	6.0	22.0	6.0	21.5	9.5	21.0	8.5	14.0	6.0
19	8.0	4.0	14.5	6.0	22.0	6.0	20.0	8.5	19.5	7.5	17.0	5.0
20	10.5	2.5	13.5	5.5	21.5	7.0	17.0	9.0	22.0	6.5	14.5	3.5
21	10.0	3.5	14.0	6.0	22.0	7.5	20.0	9.5	18.5	9.0	14.5	4.0
22	9.5	4.0	17.5	5.5	21.5	6.0	21.0	9.5	22.0	7.5	12.5	4.0
23	14.0	3.0	18.0	5.5	19.5	7.0	22.5	8.5	22.0	6.0	14.5	1.5
24	14.0	5.0	15.5	6.0	19.5	8.0	19.5	8.5	22.0	5.0	13.5	4.5
25	6.5	3.5	14.0	6.5	17.5	6.5	23.5	7.5	22.0	5.5	15.0	2.5
26	9.0	4.5	15.0	6.0	13.0	5.5	22.5	8.5	21.5	6.5	16.5	2.0
27	15.5	4.0	18.0	5.5	21.0	4.5	23.0	7.5	18.5	8.0	16.0	3.0
28	15.5	5.0	17.5	5.5	21.5	6.0	20.0	7.5	22.0	8.5	13.5	2.0
29	13.0	5.5	17.5	6.0	18.0	6.5	19.0	8.5	20.5	7.5	13.0	.0
30	15.5	5.5	16.5	5.0	22.5	6.5	22.5	7.5	21.0	7.0	13.5	.5
31	---	---	14.0	4.5	---	---	23.0	8.0	21.0	8.0	---	---
MONTH	16.0	1.0	18.0	4.0	22.5	4.5	24.0	7.0	23.0	4.5	21.5	.0
YEAR	24.0	.0										

09306240 BOX ELDER GULCH NEAR RANGELY, CO

LOCATION.--Lat 39°53'18", long 108°31'40", in NE¼SW¼ sec.8, T.2 S., R.99 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 30 ft upstream from unnamed tributary, 4.1 mi upstream from mouth, and 20 mi southeast of Rangely.

DRAINAGE AREA.--9.21 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to October 1985 (discontinued).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,955 ft, from topographic map.

REMARKS.--Estimated daily discharges: Mar. 15 to Apr. 9, May 12-24. Records good. No diversion or regulation above station.

AVERAGE DISCHARGE.--11 years, 1.04 ft^3/s; 753 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 332 ft^3/s, Sept. 7, 1981, gage height, 4.37 ft, result of slope-area measurement of peak flow; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26 ft^3/s at 0715 May 3, gage height, 2.27 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.02	1.5	23	6.6	.33	.00	.00
2	.00	.00	.00	.00	.00	.10	2.5	24	6.0	.30	.00	.00
3	.00	.00	.00	.00	.00	.05	3.5	26	5.4	.21	.00	.00
4	.00	.00	.00	.00	.00	.04	4.0	26	4.8	.19	.00	.00
5	.00	.00	.00	.00	.00	.02	4.5	26	4.6	.15	.00	.00
6	.00	.00	.00	.00	.00	.00	5.0	24	4.2	.11	.00	.00
7	.00	.00	.00	.00	.00	.05	5.3	23	3.7	.11	.00	.00
8	.00	.00	.00	.00	.00	.03	5.7	23	3.4	.08	.00	.00
9	.00	.00	.00	.00	.00	.13	6.1	22	3.0	.06	.00	.00
10	.00	.00	.00	.00	.00	.01	8.2	21	2.7	.06	.00	.00
11	.00	.00	.00	.00	.00	.48	9.0	19	2.7	.05	.00	.00
12	.00	.00	.00	.00	.00	.12	9.7	18	2.3	.04	.00	.00
13	.00	.00	.00	.00	.00	.02	10	17	2.0	.03	.00	.00
14	.00	.00	.00	.00	.00	.02	11	16	2.1	.02	.00	.00
15	.00	.00	.00	.00	.00	.01	11	16	1.7	.02	.00	.00
16	.00	.00	.00	.00	.00	.00	11	15	1.5	.02	.00	.00
17	.00	.00	.00	.00	.00	.00	12	15	1.3	.00	.00	.00
18	.00	.00	.00	.00	.00	.01	12	14	1.1	.00	.00	.00
19	.00	.00	.00	.00	.00	.50	13	14	.99	.00	.00	.00
20	.00	.00	.00	.00	.00	.40	14	13	.70	.00	.00	.00
21	.00	.00	.00	.00	.02	.34	15	12	.57	.00	.00	.00
22	.00	.00	.00	.00	.02	.28	15	12	.51	.00	.00	.00
23	.00	.00	.00	.00	.00	.25	15	11	.44	.00	.00	.00
24	.00	.00	.00	.00	.00	.70	16	11	.46	.00	.00	.00
25	.00	.00	.00	.00	.00	1.0	17	9.8	.85	.00	.00	.00
26	.00	.00	.00	.00	.00	.92	18	9.3	.79	.00	.00	.00
27	.00	.00	.00	.00	.00	.89	19	9.5	.57	.00	.00	.00
28	.00	.00	.00	.00	.00	.87	19	8.8	.44	.00	.00	.00
29	.00	.00	.00	.00	---	.85	20	8.2	.36	.00	.00	.00
30	.00	.00	.00	.00	---	.84	22	7.4	.33	.00	.00	.00
31	.00	---	.00	.00	---	.80	---	7.1	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.04	9.75	335.0	501.1	66.11	1.78	.00	.00
MEAN	.00	.00	.00	.00	.00	.31	11.2	16.2	2.20	.06	.00	.00
MAX	.00	.00	.00	.00	.02	1.0	22	26	6.6	.33	.00	.00
MIN	.00	.00	.00	.00	.00	.00	1.5	7.1	.33	.00	.00	.00
AC-FT	.00	.00	.00	.00	.08	19	664	994	131	3.5	.00	.00

CAL YR 1984	TOTAL	1467.42	MEAN	4.01	MAX	69	MIN	.00	AC-FT	2910
WTR YR 1985	TOTAL	913.78	MEAN	2.50	MAX	26	MIN	.00	AC-FT	1810

09306240 BOX ELDER GULCH NEAR RANGELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to September 1985 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1974 to September 1985 (discontinued).
WATER TEMPERATURE: April 1974 to September 1985 (discontinued).
SUSPENDED-SEDIMENT DISCHARGE: March 1975 to September 1983.

INSTRUMENTATION.--Water-quality monitor April 1974 to September 1985. Pumping sediment sampler March 1975 to September 1983.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,540 microsiemens May 3,4, 1984; minimum, 100 microsiemens Mar. 7, 1983.
WATER TEMPERATURES: Maximum, 32.0°C June 20, 1978, June 29, 1979; minimum, 0.0°C on several days each spring when flowing.
SEDIMENT CONCENTRATIONS: Maximum daily, 33,100 mg/L Sept. 7, 1981; no flow many days each year.
SEDIMENT LOADS: Maximum daily, 6,750 tons Sept. 7, 1981; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Not determined.
WATER TEMPERATURES: Not determined.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
MAR										
11...	10:35	0.5	360	8.1	0.0	140	34	14	19	0.7

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
MAR										
11...	9.7	87	<0.5	84	6.6	<0.1	7.7	266	230	0.31

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
MAR										
11...	0.31	1.07	0.03	1.10	0.26	1.8	2.1	0.61	0.51	30

DATE	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	LITHIUM DIS-SOLVED (UG/L AS LI)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)
MAR									
11...	3	40	120	<4	<0.1	7	2	390	6

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAR				
11...	10:35	0.5	47	0.06

09306240 BOX ELDER GULCH NEAR RANGELY, CO--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					---			---	1020			
2					---			---	1060			
3					---			---	1070			
4					---			---	1040			
5					---			---	---			
6					---			---	---			
7					---			---	---			
8					---			---	---			
9					---			---	---			
10					---			---	---			
11					---			---	---			
12					---			---	---			
13					---			---	---			
14					---			---	---			
15					---			---	---			
16					---			---	---			
17					---			---	---			
18					---			---	---			
19					---			---	---			
20					---			---	---			
21					628			---	---			
22					---			---	---			
23					---			---	---			
24					---			1120	---			
25					---			1110	---			
26					---			1100	---			
27					---			1090	---			
28					---			1090	---			
29					---			1070	---			
30					---			1030	---			
31					---			1030	---			

09306240 BOX ELDER GULCH NEAR RANGELY, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1									---	---	---	---
2									---	---	---	---
3									---	---	---	---
4									---	---	---	---
5									---	---	---	---
6									---	---	---	---
7									---	---	---	---
8									---	---	---	---
9									---	---	---	---
10									---	---	---	---
11									---	---	.0	.0
12									---	---	.0	.0
13									---	---	.0	.0
14									---	---	.0	.0
15									---	---	.0	.0
16									---	---	.5	.0
17									---	---	.0	.0
18									---	---	1.0	.0
19									---	---	3.0	.0
20									---	---	8.0	.0
21									.0	.0	8.5	.0
22									---	---	.0	.0
23									---	---	3.5	.0
24									---	---	7.5	.0
25									---	---	11.0	.0
26									---	---	1.0	.0
27									---	---	.0	.0
28									---	---	.0	.0
29									---	---	.0	.0
30									---	---	.0	.0
31									---	---	.0	.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	.0	.0	12.5	4.5	15.5	5.0						
2	4.5	.0	13.0	5.0	17.5	5.0						
3	12.0	.5	11.0	5.0	16.0	5.0						
4	6.0	1.0	9.5	5.0	19.0	5.0						
5	12.0	.0	12.5	5.0	---	---						
6	13.0	2.0	11.5	5.0	---	---						
7	13.0	1.0	12.5	5.0	---	---						
8	12.0	2.0	12.5	5.0	---	---						
9	13.5	3.5	10.0	5.0	---	---						
10	14.0	2.5	11.0	5.0	---	---						
11	12.0	2.0	11.0	4.5	---	---						
12	12.5	2.0	9.0	4.5	---	---						
13	12.5	2.0	10.0	2.5	---	---						
14	14.0	2.0	12.5	2.5	---	---						
15	14.0	2.0	15.0	4.5	---	---						
16	13.0	4.0	12.5	5.0	---	---						
17	13.0	4.0	14.5	5.0	---	---						
18	10.0	4.5	14.0	5.0	---	---						
19	7.0	2.5	14.5	5.0	---	---						
20	8.0	2.0	10.5	5.0	---	---						
21	9.0	2.0	12.0	5.0	---	---						
22	6.0	2.0	16.0	5.0	---	---						
23	12.0	2.0	16.0	5.0	---	---						
24	12.0	2.5	14.0	5.0	---	---						
25	5.0	2.0	12.5	5.0	---	---						
26	7.5	2.0	12.5	5.0	---	---						
27	13.0	2.0	17.0	5.0	---	---						
28	13.0	4.0	16.0	5.0	---	---						
29	10.5	4.0	15.5	5.0	---	---						
30	12.5	4.0	15.5	5.0	---	---						
31	---	---	12.5	4.0	---	---						

09306242 CORRAL GULCH NEAR RANGELY, CO

LOCATION.--Lat 39°55'13", long 108°28'20", in SE¼NW¼ sec.35, T.1 S., R.99 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 5 ft downstream from Boxelder Creek, and 3.5 mi upstream from confluence with Stake Springs Draw, and 21 mi southeast of Rangely.

DRAINAGE AREA.--31.6 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1974 to current year.

GAGE.--Water-stage recorder. Concrete control since July 20, 1974. Elevation of gage is 6,570 ft, from topographic map.

REMARKS.--Estimated daily discharges: Apr. 13, 14, July 28 to Aug. 6, and Sept. 29-30. Records good except those above 30 ft^3/s and for periods of estimated daily discharges, which are poor. No diversion above station.

AVERAGE DISCHARGE.--11 years, 2.76 ft^3/s; 2,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,780 ft^3/s, Aug. 18, 1984, gage height, 6.12 ft, from rating curve extended above 70 ft^3/s, on basis of slope-area measurements at gage heights 3.89 ft, 4.08 ft, and 6.12 ft; minimum daily, 0.06 ft^3/s, Apr. 10-14, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 191 ft^3/s at 1730 July 19, gage height, 3.72 ft; minimum daily, 0.67 ft^3/s, Feb. 5 and 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.1	1.2	1.1	.75	.90	4.1	22	17	4.4	3.6	2.4
2	1.3	1.1	1.2	1.1	.71	.90	5.2	32	14	4.3	3.5	2.4
3	1.3	1.1	1.2	1.0	.79	.95	6.7	29	13	4.2	3.4	2.5
4	1.3	1.1	1.3	1.0	.71	.90	7.9	28	13	4.1	3.3	2.3
5	1.2	1.1	1.2	.95	.67	.90	7.8	28	13	4.1	3.2	2.3
6	1.2	1.2	1.2	.95	.67	.95	9.0	32	12	4.0	3.0	2.4
7	1.2	1.2	1.1	.95	.71	.95	9.1	33	11	3.9	3.0	2.3
8	1.2	1.2	1.1	1.0	.71	1.0	9.0	30	11	3.8	2.9	2.4
9	1.2	1.2	1.1	1.1	.75	1.3	8.7	29	11	3.7	2.7	2.3
10	1.2	1.2	1.1	1.1	.75	2.4	8.8	24	9.8	3.7	2.6	2.4
11	1.2	1.2	1.1	1.1	.79	2.0	9.1	21	9.8	3.8	2.6	2.5
12	1.2	1.2	1.1	.90	.79	1.7	9.6	21	9.5	4.0	2.6	2.4
13	1.2	1.2	1.1	.90	.75	1.5	8.9	20	11	3.9	2.5	2.3
14	1.2	1.1	1.0	.90	.75	1.7	9.7	17	8.7	3.7	2.5	2.2
15	1.2	1.0	1.0	.90	.71	2.2	11	15	7.9	3.8	2.4	2.2
16	1.2	1.1	1.0	.84	.75	1.2	12	12	7.7	4.2	2.4	2.2
17	1.2	1.1	1.0	.79	.75	.94	13	11	7.6	4.4	2.4	2.0
18	1.2	1.1	1.0	.79	.75	.90	13	11	7.5	4.8	2.4	2.0
19	1.2	1.1	1.1	.79	.75	3.0	16	11	7.3	9.8	2.4	2.0
20	1.2	1.1	1.1	.79	.75	3.7	16	17	7.2	4.3	2.4	2.0
21	1.1	1.1	1.1	.79	.75	4.4	15	20	6.9	4.3	2.4	1.9
22	1.1	1.1	1.1	.79	.79	3.6	17	19	6.4	3.8	2.4	2.0
23	1.1	1.1	1.1	.79	.79	3.4	16	17	6.1	4.2	2.4	1.9
24	1.1	1.1	1.1	.79	.79	4.9	17	17	5.8	3.7	2.4	1.8
25	1.1	1.1	1.1	.75	.84	5.2	18	17	6.0	3.7	2.4	1.8
26	1.1	1.2	1.1	.75	.79	4.8	18	15	5.8	3.9	2.4	1.8
27	1.1	1.2	1.2	.75	.84	4.6	18	14	5.4	4.1	2.4	1.8
28	1.1	1.2	1.2	.75	.90	4.4	18	14	4.8	4.0	2.4	1.8
29	1.1	1.2	1.1	.75	---	4.4	25	14	4.7	4.1	2.4	1.8
30	1.1	1.2	1.1	.75	---	4.3	27	15	4.6	3.9	2.4	1.8
31	1.1	---	1.1	.75	---	4.1	---	17	---	3.8	2.4	---
TOTAL	36.6	34.2	34.5	27.36	21.25	78.09	383.6	622	265.5	130.4	82.2	63.9
MEAN	1.18	1.14	1.11	.88	.76	2.52	12.8	20.1	8.85	4.21	2.65	2.13
MAX	1.4	1.2	1.3	1.1	.90	5.2	27	33	17	9.8	3.6	2.5
MIN	1.1	1.0	1.0	.75	.67	.90	4.1	11	4.6	3.7	2.4	1.8
AC-FT	73	68	68	54	42	155	761	1230	527	259	163	127

CAL YR 1984	TOTAL	2753.6	MEAN	7.52	MAX	95	MIN	1.0	AC-FT	5460
WTR YR 1985	TOTAL	1779.60	MEAN	4.88	MAX	33	MIN	.67	AC-FT	3530

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1975 to current year.
WATER TEMPERATURE: January 1975 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to September 1985 (discontinued).

INSTRUMENTATION.--Water-quality monitor since October 1974. Pumping sediment sampler October 1974 to September 1985.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 3,000 microsiemens July 17, 1976; minimum, 271 microsiemens Feb. 18, 1980.
WATER TEMPERATURES: Maximum, 29.0°C Aug. 5, 1979; minimum, 0.0°C on several days during winter months some years.
SEDIMENT CONCENTRATIONS: Maximum daily, 35,800 mg/L Aug. 2, 1982; minimum daily, 2 mg/L May 24, 1981.
SEDIMENT LOADS: Maximum daily, 43,600 tons August 18, 1984; minimum daily, 0.00 ton on many days during 1981.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,840 microsiemens Oct. 3; minimum, 290 microsiemens Apr. 2.
WATER TEMPERATURES: Maximum, 23.5°C July 24; minimum, 0.5°C Apr. 20.
SEDIMENT CONCENTRATIONS: Maximum daily, 20,200 mg/L May 6; minimum daily, 3 mg/L Feb. 24.
SEDIMENT LOADS: Maximum daily, 1,760 tons May 7; minimum daily, 0.00 ton on Feb. 24.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
JAN										
30...	12:02	0.75	1640	--	7.5	7.8	600	99	85	170
MAY										
07...	15:25	33	1250	--	17.0	6.8	590	120	69	85
AUG										
14...	12:15	2.5	1520	8.1	17.5	6.9	630	110	86	140
SEP										
04...	10:15	2.2	1600	7.9	14.0	7.3	640	110	88	150

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
JAN										
30...	3	1.3	449	<0.5	450	14	0.5	23	1160	1100
MAY										
07...	2	1.7	305	<0.5	340	15	0.3	24	885	840
AUG										
14...	2	1.3	367	<0.5	460	19	0.4	22	1130	1100
SEP										
04...	3	1.5	372	0.5	500	19	0.4	21	1230	1100

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
JAN										
30...	1.5	2.3	--	<0.01	1.70	0.02	0.48	0.5	0.02	0.03
MAY										
07...	1.1	75	--	<0.01	3.80	0.05	1.5	1.5	0.01	0.01
AUG										
14...	1.4	7.1	2.69	0.01	2.70	0.03	0.67	0.7	0.01	0.01
SEP										
04...	1.5	6.6	--	<0.01	2.90	0.02	0.38	0.4	0.01	0.01

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	LITHIUM DIS-SOLVED (UG/L AS LI)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)
JAN 30...	<0.1	5	150	8	42	<0.1	27	7	3100	9
MAY 07...	12	6	80	<3	21	<0.1	23	12	1900	8
AUG 14...	7.6	6	120	5	28	0.1	31	11	2800	9
SEP 04...	8.7	6	140	12	26	<0.1	29	12	2800	8

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	NICKEL, DIS-SOLVED (UG/L AS NI)	ZINC, DIS-SOLVED (UG/L AS ZN)
JAN 30...	20	74	<0.5	<1	<10	2	1	<1	15	1	13

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT 03...	15:08	1.3	29	0.1
DEC 03...	15:30	1.2	12	0.04
JAN 30...	12:02	0.75	27	0.05
APR 11...	10:00	9.2	11400	283
MAY 07...	15:25	33	8290	739
JUN 13...	15:10	9.3	140	3.5
AUG 14...	12:15	2.5	63	0.42
SEP 04...	10:15	2.2	296	1.8

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1680	1730	1630	1600	1590	1500	1180	1350	1350	1490	---	1620
2	---	1740	1620	1610	1600	1340	1010	1310	1320	1510	---	1620
3	1820	1730	1630	1620	1610	1380	944	1430	1300	1520	---	---
4	1640	1730	1650	1640	1610	1260	---	1300	1330	1540	---	---
5	1720	1720	1620	1630	1610	1160	---	1230	1320	1540	---	---
6	1680	1720	1610	1620	1570	1140	---	1300	1310	1540	---	---
7	1690	1690	1610	1630	1610	1140	---	---	1300	1550	---	---
8	1710	1670	1660	1610	1610	1070	---	---	1320	1560	1510	---
9	1740	1650	1670	1630	1600	858	---	860	1330	1560	1530	---
10	1730	1630	1670	1630	1600	686	---	624	1310	1550	1520	---
11	1740	1630	1660	1620	1610	965	1240	694	1320	1520	1490	---
12	1730	1670	1690	1620	1600	1200	1010	588	1320	1520	1520	---
13	1700	1690	1690	1620	1600	1240	1280	782	1360	1510	1530	---
14	---	1690	1670	1620	1600	1040	1290	1230	1470	1500	1560	---
15	---	1700	1690	1610	1600	735	1300	1090	1440	1500	1600	---
16	---	1680	1720	1620	1600	808	1310	1090	1460	1510	1600	---
17	---	1630	1730	1610	1600	1040	1270	1310	1470	1500	1550	---
18	---	1650	1740	1620	1600	884	1270	924	1440	1520	1520	---
19	---	1660	1680	1610	1590	810	1270	1270	---	---	1470	---
20	---	1660	1630	1610	1590	889	1180	1340	---	---	1500	---
21	---	1650	1630	1590	1530	830	1280	1490	1480	---	1560	---
22	1760	1650	1640	1590	1590	1220	1450	1360	1480	---	1590	---
23	1750	1660	1630	1600	1580	1280	1550	1360	1500	---	1570	---
24	1740	1640	1630	1590	1590	1110	1480	1410	1500	---	1590	---
25	1720	1630	1620	1590	1540	1030	1400	1400	1480	---	1620	---
26	1710	1660	1620	1580	1530	1000	1290	1420	1460	---	1620	---
27	1720	1670	1610	1570	1510	1070	1300	1430	1440	---	1580	---
28	1740	1640	1620	1570	1440	1100	1340	1400	1470	1230	1600	---
29	1730	1660	1580	1570	---	1120	1460	1410	1480	1400	1600	---
30	1740	1640	1610	1590	---	1150	1590	1450	1480	---	1570	---
31	1730	---	1600	1600	---	1160	---	1370	---	---	1580	---
MEAN		1670	1650	1610	1580	1070		1210	1400			

WTR YR 1985 MEAN 1480 MAX 1820 MIN 588

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	14.0	8.0	11.0	5.5	7.5	4.5	7.5	4.5	6.5	4.5	11.0	5.5
2	15.5	9.0	11.0	5.5	7.5	4.0	7.0	4.5	7.0	4.5	9.5	4.5
3	15.0	8.0	10.5	6.0	8.5	5.0	7.5	5.0	7.5	5.0	8.5	4.0
4	12.5	9.5	11.0	5.5	7.5	4.5	7.5	4.5	7.5	4.5	10.0	5.0
5	15.5	9.0	10.5	5.5	7.0	4.5	7.5	4.5	7.5	4.5	10.0	5.5
6	15.5	8.0	11.0	6.5	7.5	4.0	8.0	5.5	7.5	4.5	10.5	4.0
7	14.5	8.0	10.5	6.0	8.0	4.5	8.5	6.0	8.0	4.5	10.5	4.0
8	15.0	8.0	10.0	5.5	7.0	5.0	7.5	6.0	8.0	5.5	10.5	3.5
9	16.0	7.5	9.0	5.5	9.0	5.5	8.0	5.0	7.5	5.5	11.0	1.0
10	15.5	8.0	9.0	5.0	8.0	5.0	8.0	5.0	8.0	4.5	4.5	1.0
11	15.5	7.5	10.0	6.0	8.0	5.5	7.5	4.5	8.5	4.5	6.0	3.0
12	10.0	7.0	10.5	6.0	8.5	4.5	7.5	4.5	8.0	5.0	6.5	4.5
13	14.0	6.5	10.5	6.5	6.5	5.5	7.0	4.5	9.0	5.0	10.0	5.0
14	13.5	7.0	9.0	6.0	7.5	5.0	7.5	4.5	9.0	5.0	9.5	4.0
15	10.0	6.0	9.5	5.0	8.0	5.0	7.5	4.5	10.0	5.5	8.5	1.5
16	12.0	6.0	8.0	5.0	8.5	5.0	7.5	5.0	9.5	5.5	8.5	2.5
17	11.5	3.5	10.0	6.0	7.5	4.5	8.0	5.0	8.5	5.5	9.5	4.0
18	10.5	5.5	9.0	5.5	7.5	5.0	8.5	5.0	10.0	5.5	7.5	4.0
19	9.5	6.5	9.0	5.5	8.5	5.5	8.5	5.5	10.0	5.5	8.5	1.0
20	11.0	6.5	9.0	5.5	8.0	4.5	8.0	5.0	10.5	6.5	7.0	2.0
21	10.0	6.5	9.0	5.5	7.5	4.5	7.5	5.5	10.0	5.5	5.0	1.5
22	11.0	6.0	9.0	5.5	7.5	4.5	8.0	4.5	9.5	5.5	9.5	5.0
23	10.0	6.0	9.0	5.5	8.0	4.5	7.5	4.5	9.5	5.5	11.5	7.0
24	10.5	5.5	9.5	6.0	7.5	4.5	7.5	5.0	10.5	5.5	13.5	2.5
25	11.0	5.5	8.5	6.0	7.5	4.5	7.5	4.5	10.5	6.0	13.0	3.5
26	11.0	6.0	8.0	4.5	9.0	5.0	8.0	5.0	10.5	5.0	10.0	5.0
27	11.5	5.5	8.0	4.5	8.5	6.5	8.5	5.5	10.0	5.5	7.5	6.5
28	11.0	5.5	9.0	5.0	9.0	6.0	8.5	5.0	10.5	5.5	8.5	6.0
29	11.5	6.0	8.5	5.0	8.0	5.5	8.0	5.0	---	---	7.0	6.0
30	12.5	6.5	7.5	5.5	8.0	5.5	8.0	4.5	---	---	7.5	6.0
31	11.0	6.5	---	---	8.0	5.0	7.0	4.5	---	---	7.5	6.0
MONTH	16.0	3.5	11.0	4.5	9.0	4.0	8.5	4.5	10.5	4.5	13.5	1.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.5	6.5	14.5	4.0	17.0	8.5	21.5	9.0	---	---	17.0	11.5
2	10.0	4.5	22.0	4.0	20.0	7.0	21.5	9.0	---	---	17.0	7.5
3	7.5	4.5	16.0	4.5	18.0	7.5	22.0	9.0	---	---	---	---
4	---	---	13.0	5.5	20.0	7.5	20.5	9.5	---	---	19.0	10.0
5	---	---	18.0	5.0	19.0	8.0	22.0	9.5	---	---	18.0	8.5
6	---	---	14.0	6.0	18.5	8.5	21.0	9.5	---	---	18.0	7.5
7	---	---	18.0	4.5	22.0	9.0	21.0	10.0	---	---	16.0	8.0
8	---	---	15.0	6.0	21.5	9.5	22.0	10.5	20.0	11.5	18.0	7.0
9	---	---	13.5	5.5	21.5	9.5	21.0	10.5	19.0	10.0	17.5	8.5
10	---	---	16.0	6.5	20.5	10.0	21.0	10.5	17.5	9.0	13.5	7.5
11	17.0	6.0	13.5	5.5	20.0	7.0	21.5	11.0	16.0	12.5	15.0	8.0
12	18.0	4.0	12.0	5.5	20.5	7.5	20.0	11.5	17.5	9.5	---	---
13	17.5	3.0	13.5	4.5	21.0	8.5	20.0	11.0	17.5	9.0	---	---
14	19.5	3.0	17.5	3.5	20.5	9.5	20.0	10.0	20.0	10.0	---	---
15	16.5	3.0	18.0	5.5	21.5	9.5	20.0	10.5	19.5	8.0	---	---
16	18.0	3.0	15.0	6.0	19.5	9.5	21.0	10.0	18.5	8.5	---	---
17	16.5	4.0	19.0	6.5	21.5	9.0	22.0	12.0	19.0	8.5	---	---
18	16.0	4.5	18.0	8.0	21.5	8.5	22.5	12.5	18.5	11.0	---	---
19	11.5	3.0	19.5	8.5	21.5	8.5	20.0	11.0	19.0	10.0	---	---
20	13.5	.5	15.0	8.0	21.0	10.0	22.0	11.5	19.5	9.5	---	---
21	13.5	1.0	16.5	8.5	21.5	9.5	21.5	11.5	16.5	11.0	---	---
22	6.5	3.5	19.5	7.0	21.0	8.0	20.5	11.5	18.5	10.5	---	---
23	6.0	5.0	20.0	7.5	20.0	9.0	21.5	11.0	19.0	9.0	---	---
24	14.5	6.0	19.5	8.5	18.5	10.5	23.5	10.5	19.5	8.0	---	---
25	7.0	3.0	17.0	8.0	16.5	8.5	23.0	10.0	19.0	8.0	---	---
26	10.0	2.5	16.0	8.0	16.0	7.5	21.5	10.5	19.0	9.0	---	---
27	20.0	1.5	19.0	7.0	20.5	6.5	21.0	9.5	17.0	10.5	---	---
28	18.5	3.5	18.0	7.5	21.0	7.5	19.0	10.0	19.5	11.0	---	---
29	7.0	4.0	19.0	8.5	18.5	8.5	17.5	11.5	18.0	9.5	---	---
30	9.0	7.0	18.0	7.0	21.0	8.5	---	---	16.5	10.0	---	---
31	---	---	16.5	7.0	---	---	---	---	17.5	10.5	---	---
MONTH	20.0	.5	22.0	3.5	22.0	6.5	23.5	9.0				
YEAR	23.5	.5										

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	1.4	---	.18	1.1	55	.16	1.2	---	.10
2	1.3	---	.16	1.1	58	.17	1.2	---	.10
3	1.3	36	.13	1.1	61	.18	1.2	17	.06
4	1.3	163	.57	1.1	76	.23	1.3	46	.16
5	1.2	50	.16	1.1	130	.39	1.2	---	.10
6	1.2	39	.13	1.2	144	.47	1.2	---	.10
7	1.2	30	.10	1.2	138	.45	1.1	---	.10
8	1.2	43	.14	1.2	127	.41	1.1	---	.10
9	1.2	50	.16	1.2	101	.33	1.1	---	.10
10	1.2	39	.13	1.2	70	.23	1.1	---	.10
11	1.2	55	.18	1.2	115	.37	1.1	---	.10
12	1.2	152	.49	1.2	168	.54	1.1	---	.10
13	1.2	168	.54	1.2	320	1.0	1.1	---	.10
14	1.2	109	.35	1.1	400	1.2	1.0	---	.08
15	1.2	80	.26	1.0	243	.66	1.0	---	.08
16	1.2	96	.31	1.1	373	1.1	1.0	---	.08
17	1.2	166	.54	1.1	284	.84	1.0	---	.08
18	1.2	131	.42	1.1	---	.70	1.0	---	.08
19	1.2	110	.36	1.1	---	.40	1.1	---	.08
20	1.2	88	.29	1.1	---	.37	1.1	---	.08
21	1.1	80	.24	1.1	---	.37	1.1	28	.08
22	1.1	135	.40	1.1	---	.37	1.1	32	.10
23	1.1	83	.25	1.1	---	.35	1.1	14	.04
24	1.1	91	.27	1.1	---	.30	1.1	15	.04
25	1.1	99	.29	1.1	---	.30	1.1	14	.04
26	1.1	87	.26	1.2	---	.25	1.1	8	.02
27	1.1	116	.34	1.2	---	.25	1.2	11	.04
28	1.1	193	.57	1.2	---	.25	1.2	12	.04
29	1.1	261	.78	1.2	---	.20	1.1	11	.03
30	1.1	91	.27	1.2	---	.20	1.1	15	.04
31	1.1	58	.17	---	---	---	1.1	21	.06
TOTAL	36.6	---	9.44	34.2	---	13.04	34.5	---	2.41
		JANUARY			FEBRUARY			MARCH	
1	1.1	26	.08	.75	---	.05	.90	12	.03
2	1.1	14	.04	.71	---	.05	.90	16	.04
3	1.0	26	.07	.79	---	.06	.95	46	.12
4	1.0	15	.04	.71	---	.06	.90	74	.18
5	.95	11	.03	.67	---	.06	.90	63	.15
6	.95	18	.05	.67	---	.06	.95	27	.07
7	.95	15	.04	.71	---	.08	.95	5	.01
8	1.0	21	.06	.71	---	.08	1.0	22	.06
9	1.1	---	.06	.75	---	.08	1.3	2000	7.0
10	1.1	---	.06	.75	---	.08	2.4	2400	16
11	1.1	---	.06	.79	48	.10	2.0	1760	9.5
12	.90	---	.06	.79	45	.10	1.7	900	4.1
13	.90	---	.06	.75	43	.09	1.5	940	3.8
14	.90	---	.06	.75	38	.08	1.7	1760	8.1
15	.90	---	.06	.71	25	.05	2.2	3920	23
16	.84	---	.06	.75	43	.09	1.2	2880	9.3
17	.79	---	.05	.75	42	.09	.94	1760	4.5
18	.79	---	.05	.75	91	.18	.90	800	1.9
19	.79	---	.05	.75	114	.23	3.0	13200	244
20	.79	---	.05	.75	24	.05	3.7	11800	126
21	.79	---	.05	.75	23	.05	4.4	10400	197
22	.79	---	.05	.79	20	.04	3.6	3920	41
23	.79	---	.05	.79	8	.02	3.4	3060	28
24	.79	---	.05	.79	3	.00	4.9	13200	285
25	.75	---	.05	.84	6	.01	5.2	12800	254
26	.75	---	.05	.79	29	.06	4.8	---	80
27	.75	---	.05	.84	38	.09	4.6	---	70
28	.75	---	.05	.90	19	.05	4.4	---	50
29	.75	---	.05	---	---	---	4.4	---	50
30	.75	27	.05	---	---	---	4.3	---	45
31	.75	---	.05	---	---	---	4.1	---	40
TOTAL	27.36	---	1.64	21.25	---	2.04	78.09	---	1597.86

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	4.1	---	60	22	12500	742	17	1000	46
2	5.2	---	200	32	15000	1300	14	940	36
3	6.7	---	220	29	16500	1290	13	900	32
4	7.9	---	100	28	17000	1290	13	640	22
5	7.8	---	100	28	18700	1410	13	380	13
6	9.0	---	120	32	20200	1750	12	400	13
7	9.1	---	140	33	19800	1760	11	520	15
8	9.0	---	160	30	13800	1120	11	780	23
9	8.7	---	180	29	6100	478	11	800	24
10	8.8	---	200	24	1000	65	9.8	520	14
11	9.1	8320	204	21	1800	102	9.8	350	9.3
12	9.6	9440	245	21	---	102	9.5	220	5.6
13	8.9	11000	264	20	---	101	11	140	4.2
14	9.7	11000	288	17	---	100	8.7	280	6.6
15	11	9760	290	15	---	80	7.9	240	5.1
16	12	9760	316	12	---	70	7.7	250	5.2
17	13	8800	309	11	---	50	7.6	275	5.6
18	13	11600	407	11	---	50	7.5	255	5.2
19	16	11000	475	11	---	50	7.3	170	3.4
20	16	4240	183	17	---	60	7.2	130	2.5
21	15	7840	318	20	---	90	6.9	135	2.5
22	17	7840	360	19	---	80	6.4	145	2.5
23	16	8000	346	17	---	62	6.1	157	2.6
24	17	12000	551	17	1340	62	5.8	188	2.9
25	18	15700	763	17	2550	117	6.0	90	1.5
26	18	15700	763	15	1920	78	5.8	120	1.9
27	18	14200	690	14	2400	91	5.4	103	1.5
28	18	12900	627	14	2450	93	4.8	100	1.3
29	25	12000	810	14	2280	86	4.7	59	.75
30	27	11800	860	15	900	36	4.6	35	.43
31	---	---	---	17	2220	102	---	---	---
TOTAL	383.6	---	10549	622	---	12867	265.5	---	308.58
		JULY			AUGUST			SEPTEMBER	
1	4.4	104	1.2	3.6	---	2.0	2.4	30	.19
2	4.3	218	2.5	3.5	---	1.4	2.4	121	.78
3	4.2	189	2.1	3.4	---	1.0	2.5	270	1.8
4	4.1	93	1.0	3.3	---	.70	2.3	328	2.0
5	4.1	40	.44	3.2	---	.55	2.3	277	1.7
6	4.0	80	.86	3.0	---	.45	2.4	88	.57
7	3.9	138	1.5	3.0	---	.45	2.3	176	1.1
8	3.8	175	1.8	2.9	56	.44	2.4	315	2.0
9	3.7	172	1.7	2.7	48	.35	2.3	302	1.9
10	3.7	150	1.5	2.6	63	.44	2.4	340	2.2
11	3.8	60	.62	2.6	60	.42	2.5	1290	8.7
12	4.0	52	.56	2.6	30	.21	2.4	---	3.1
13	3.9	70	.74	2.5	24	.16	2.3	---	1.5
14	3.7	82	.82	2.5	24	.16	2.2	---	1.3
15	3.8	85	.87	2.4	26	.17	2.2	---	1.3
16	4.2	260	2.9	2.4	36	.23	2.2	---	1.3
17	4.4	322	3.8	2.4	39	.25	2.0	---	1.0
18	4.8	240	3.1	2.4	45	.29	2.0	---	1.0
19	9.8	8760	442	2.4	86	.56	2.0	---	1.0
20	4.3	2610	30	2.4	68	.44	2.0	---	1.0
21	4.3	3180	37	2.4	48	.31	1.9	---	.90
22	3.8	1650	17	2.4	36	.23	2.0	---	1.0
23	4.2	5600	64	2.4	34	.22	1.9	---	.90
24	3.7	2270	23	2.4	27	.17	1.8	---	.50
25	3.7	1400	14	2.4	36	.23	1.8	---	.50
26	3.9	440	4.6	2.4	34	.22	1.8	---	.50
27	4.1	386	4.3	2.4	28	.18	1.8	---	.50
28	4.0	828	8.9	2.4	46	.30	1.8	---	.50
29	4.1	389	4.3	2.4	131	.85	1.8	---	.50
30	3.9	283	3.0	2.4	101	.65	1.8	---	.50
31	3.8	224	2.3	2.4	57	.37	---	---	---
TOTAL	130.4	---	682.41	82.2	---	14.40	63.9	---	41.74
YEAR	1779.60		26089.56						

09306290 WHITE RIVER BELOW BOISE CREEK, NEAR RANGELY, CO

LOCATION.--Lat 40°10'47", long 108°33'53", in SW¼SE¼ sec.36, T.3 N., R.100 W., Rio Blanco County, Hydrologic Unit 14050007, on left bank 60 ft downstream from bridge on County Road 73, 0.5 mi below Boise Creek, and 16.4 mi east of Rangely.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--2,530 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 5,395 ft, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 2 to Mar. 18, May 5-14, June 26-30, July 10-16, July 30 to Aug. 7, Aug. 28-30, and Sept 18-30. Records fair except those for estimated daily discharges, which are poor. Diversions above station for irrigation of about 31,500 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,440 ft^3/s, June 7, 1984, gage height, 8.45 ft; minimum daily, 320 ft^3/s, Jan. 1-7, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,300 ft^3/s at 1300 June 10, gage height, 6.98 ft; minimum daily, 400 ft^3/s, Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	828	796	590	450	400	500	689	2290	3320	1520	980	599
2	912	785	580	430	450	530	738	2440	2930	1510	960	564
3	918	763	580	430	490	530	855	2560	2770	1480	930	545
4	903	755	580	430	470	500	968	3310	2840	1420	900	523
5	1000	726	550	460	460	500	880	3600	2750	1320	880	513
6	1020	720	550	470	500	550	794	3800	2870	1220	860	500
7	919	730	560	480	520	550	782	3750	2960	1220	850	491
8	860	730	580	480	570	550	835	3660	3270	1210	820	500
9	832	733	600	480	530	630	904	3800	3980	1170	792	522
10	812	720	580	470	510	650	1020	3760	4260	1180	766	571
11	810	715	580	450	510	750	1080	3850	3990	1140	724	580
12	826	710	580	440	530	780	1180	3640	3510	1120	776	563
13	931	725	580	420	520	800	1280	3300	3300	1110	763	554
14	882	718	580	420	510	820	1340	2880	3420	1100	746	554
15	873	705	560	440	510	820	1440	2680	3510	1090	711	598
16	808	666	580	460	490	840	1630	2650	3510	1070	724	625
17	805	675	560	480	480	860	1770	2840	3360	1050	676	645
18	793	665	560	480	460	900	1960	3050	3150	1030	648	665
19	803	633	580	470	460	1060	2230	3290	3010	1060	650	682
20	838	608	580	470	460	1200	2610	3300	2760	993	641	719
21	858	621	560	460	460	993	2580	3310	2560	1000	614	740
22	858	635	550	460	460	897	2270	3310	2300	1090	598	760
23	872	635	520	450	460	767	2060	3190	2140	1060	558	780
24	851	628	540	450	460	752	2000	3170	1920	1020	586	800
25	843	640	520	450	460	808	1960	3400	2330	977	572	780
26	815	649	520	470	460	866	1880	3610	2380	945	558	750
27	843	609	530	470	460	829	1800	3760	2210	975	552	720
28	858	604	520	460	470	729	1750	3800	2000	960	560	710
29	815	627	510	460	---	710	1910	3700	1800	1080	550	750
30	806	613	490	450	---	661	2150	3720	1620	1070	545	730
31	802	---	470	430	---	660	---	3500	---	1010	575	---
TOTAL	26594	20539	17220	14120	13520	22992	45345	102920	86730	35200	22065	19033
MEAN	858	685	555	455	483	742	1512	3320	2891	1135	712	634
MAX	1020	796	600	480	570	1200	2610	3850	4260	1520	980	800
MIN	793	604	470	420	400	500	689	2290	1620	945	545	491
AC-FT	52750	40740	34160	28010	26820	45600	89940	204100	172000	69820	43770	37750

CAL YR 1984	TOTAL	500351	MEAN	1367	MAX	6170	MIN	390	AC-FT	992400
WTR YR 1985	TOTAL	426278	MEAN	1168	MAX	4260	MIN	400	AC-FT	845500

09306290 WHITE RIVER BELOW BOISE CREEK NEAR RANGELY, CO--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
DEC										
19...	10:30	560	734	8.6	0.0	11.2	--	320	76	31
FEB										
13...	11:30	520	780	8.1	0.0	11.9	--	320	75	32
MAR										
19...	15:30	984	920	8.4	5.0	9.6	--	330	72	36
APR										
23...	15:00	1890	815	8.4	7.0	10.1	--	320	72	34
MAY										
29...	16:00	3760	396	8.3	13.0	8.4	0.89	180	46	16
JUN										
13...	15:00	3500	376	8.3	15.0	8.4	0.47	160	42	14
JUL										
19...	16:00	1140	686	8.6	22.5	9.4	0.32	290	68	30
AUG										
01...	10:00	1010	686	8.6	17.5	--	0.69	280	65	28
SEP										
06...	13:30	478	906	8.5	17.0	8.2	0.84	340	76	37
25...	12:30	720	711	8.5	7.0	--	0.55	310	76	30

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
DEC										
19...	51	1	1.5	207	200	15	0.2	16	520	0.7
FEB										
13...	57	1	1.6	202	200	15	0.2	16	520	0.7
MAR										
19...	78	2	3.2	184	250	20	0.3	12	580	0.79
APR										
23...	56	1	2.5	175	220	14	0.2	13	520	0.7
MAY										
29...	19	0.6	1.1	124	75	4.3	0.1	12	250	0.34
JUN										
13...	16	0.6	1.9	118	70	4.4	0.1	12	230	0.31
JUL										
19...	41	1	2.0	194	170	11	0.2	14	450	0.62
AUG										
01...	42	1	1.7	181	160	9.7	0.2	14	430	0.58
SEP										
06...	66	2	2.2	223	250	18	0.3	15	600	0.81
25...	44	1	1.7	188	180	10	0.3	15	470	0.64

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)
DEC										
19...	780	<0.01	0.51	0.05	0.25	0.3	0.01	<0.01	50	<9
FEB										
13...	728	<0.01	0.58	0.10	0.5	0.6	0.02	0.02	60	5
MAR										
19...	1550	0.01	0.58	0.08	0.62	0.7	0.05	0.04	70	110
APR										
23...	2640	<0.01	0.85	0.08	0.72	0.8	0.03	0.02	60	23
MAY										
29...	2520	<0.01	0.49	0.06	0.34	0.4	0.03	0.07	20	9
JUN										
13...	2190	<0.01	0.27	0.05	0.15	0.2	0.03	0.02	30	30
JUL										
19...	1390	<0.01	0.12	0.03	0.17	0.2	<0.01	<0.01	40	41
AUG										
01...	1170	<0.01	0.29	0.03	0.37	0.4	0.01	<0.01	70	5
SEP										
06...	772	<0.01	0.44	0.04	0.36	0.4	0.02	0.01	80	10
25...	914	<0.01	0.25	0.12	0.18	0.3	<0.01	<0.01	50	24

09306290 WHITE RIVER BELOW BOISE CREEK NEAR RANGELY, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)
DEC 19...	0.50	0.07	0.53	--	1.1	0.13	2.8	1.9
JUN 13...	0.30	0.07	0.83	0.7	1.2	0.22	8.4	4.1
JUL 19...	0.10	0.05	0.35	0.2	0.5	0.08	4.7	5.0
SEP 06...	0.40	0.05	0.35	0.0	0.8	0.09	6.2	5.7

DATE	CYANIDE TOTAL (MG/L AS CN)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)
DEC 19...	0.01	2600	20	<1	1	<1	<100	45	<10	<0.5	<1	<1
JUN 13...	<0.01	7300	20	1	2	1	<100	30	<10	<0.5	<1	<1

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
DEC 19...	<10	10	<1	5	6	3	3	4	20	17	120	11
JUN 13...	10	<1	5	<1	14	11	10	3	10	8	250	6

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
DEC 19...	0.2	<0.1	10	<1	4	5	3	5	<1	960	70	34
JUN 13...	0.5	<0.1	<1	2	23	3	1	1	<1	370	60	7

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE (DEG C)
OCT 24...	11:10	832	710	4.0
NOV 30...	12:00	599	740	0.0
MAR 29...	10:55	752	959	3.0
AUG 23...	14:30	576	787	17.0

09306290 WHITE RIVER BELOW BOISE CREEK NEAR RANGELY, CO--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT				
04...	16:27	936	164	414
10...	16:30	844	72	164
18...	15:45	850	101	232
24...	17:55	832	122	274
NOV				
02...	16:20	768	179	371
09...	16:35	735	207	411
19...	07:16	617	74	123
25...	17:06	640	146	252
DEC				
01...	12:26	599	162	262
19...	10:30	560	57	86
FEB				
08...	10:00	570	22	34
13...	11:30	520	55	77
MAR				
17...	17:56	860	2910	6760
19...	15:45	984	3360	8930
27...	17:03	826	1130	2520
APR				
08...	18:37	832	1040	2340
15...	07:05	1280	2160	7460
26...	18:54	1740	2120	9960
MAY				
06...	19:00	3970	3650	39100
16...	15:30	2130	908	5220
24...	18:25	3260	1200	10600
JUN				
04...	10:03	2880	705	5480
14...	18:24	3400	773	7100
22...	18:55	1720	530	2460
28...	16:07	1740	321	1510
JUL				
06...	19:30	1240	169	566
15...	18:30	928	70	175
22...	16:40	850	381	874
30...	20:00	1160	596	1870
AUG				
01...	18:15	1010	196	534
07...	08:52	900	109	265
14...	17:35	690	53	99
20...	17:45	626	8	14
28...	14:05	486	21	28
SEP				
04...	16:53	401	501	542
06...	13:30	478	233	301
12...	18:00	572	489	755
18...	16:55	670	214	387
25...	12:50	720	137	266
27...	16:47	700	99	187

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
NOV								
30...	11:30	599	152	246	21	23	53	86
APR								
23...	14:00	1890	1980	10100	26	32	51	75
MAY								
29...	15:00	3760	1090	11100	13	16	28	57
JUN								
13...	15:00	3500	861	8140	15	20	31	0

DATE	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
NOV								
30...	--	--	--	86	93	99	100	100
APR								
23...	87	96	100	--	--	--	--	--
MAY								
29...	79	94	100	--	--	--	--	--
JUN								
13...	57	91	100	--	--	--	--	--

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 40°00'50", long 109°04'48", in NW¼NE¼NE¼ sec.27, T.9 S., R.25 E., Uintah County, Hydrologic Unit 14050007, on right bank 900 ft upstream from small right bank tributary, 2.7 mi downstream from Colorado-Utah State line, and 7.5 mi upstream from Evacuation Creek.

DRAINAGE AREA.--3,680 mi^2, approximately.

PERIOD OF RECORD.--October 1976 to September 1985 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 5,030 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 21 to Mar. 8, Mar. 20 to Apr. 1. Records good except for estimated daily discharges, which are fair. Diversions for irrigation of about 31,900 acres above station. Flow may be affected by storage in Kenny Reservoir, capacity 13,500 acre-ft, since December 1984.

AVERAGE DISCHARGE.--9 years, 824 ft^3/s, 597,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,620 ft^3/s, June 8, 1984, gage height, 8.88 ft; minimum, 10 ft^3/s, July 2, 3, 4, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,590 ft^3/s May 7, gage height, 7.09 ft; minimum daily, 272 ft^3/s, Nov. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	790	697	397	550	510	495	580	2260	3370	1510	1110	426
2	824	890	442	525	475	520	567	2510	3080	1430	1040	457
3	845	561	738	500	475	550	576	2740	2810	1360	997	660
4	753	468	902	490	500	620	701	3160	2780	1320	983	619
5	806	477	698	510	530	590	910	3550	2770	1270	977	543
6	874	589	568	625	530	560	891	3820	2790	1240	1020	498
7	910	441	511	700	519	560	883	4120	2850	1190	997	438
8	916	543	742	660	495	575	889	3790	2860	1110	1040	443
9	903	733	885	580	480	585	898	3870	3220	1010	1040	442
10	883	733	724	525	496	575	901	4080	3740	1030	1000	449
11	851	740	631	495	500	550	908	4120	3810	966	897	453
12	879	727	701	470	480	550	766	4170	3780	988	895	562
13	870	522	663	500	500	560	1130	3720	3340	970	895	555
14	874	531	651	550	480	590	1340	3390	3120	831	913	525
15	838	422	670	580	485	610	1470	2950	3040	843	894	497
16	833	761	630	620	500	630	1450	2790	3030	844	685	562
17	839	742	665	635	521	630	1630	2720	2990	853	617	572
18	831	689	414	630	542	640	1820	2850	2820	830	531	533
19	873	684	514	615	520	668	2000	2990	2660	941	524	550
20	893	523	732	580	480	670	2430	3100	2670	1180	380	577
21	883	484	600	560	475	640	2870	2930	2440	1270	368	585
22	868	276	500	530	490	650	2650	2970	2350	1370	351	600
23	863	272	450	510	520	700	2280	3060	2250	1410	321	616
24	858	581	410	495	560	750	1970	2980	2140	1330	442	682
25	859	685	470	500	550	830	1900	3170	2010	1290	495	692
26	853	680	600	470	520	880	1910	3310	2190	1280	488	673
27	854	676	710	495	498	900	1850	3380	2240	1190	403	660
28	847	463	690	500	485	830	1780	3440	2030	1160	468	654
29	812	444	710	540	---	730	1700	3570	1730	1260	446	617
30	321	420	660	582	---	660	1980	3600	1600	1240	424	668
31	432	---	600	535	---	620	---	3580	---	1200	422	---
TOTAL	25535	17454	19278	17057	14116	19918	43630	102690	82510	35716	22063	16808
MEAN	824	582	622	550	504	643	1454	3313	2750	1152	712	560
MAX	916	890	902	700	560	900	2870	4170	3810	1510	1110	692
MIN	321	272	397	470	475	495	567	2260	1600	830	321	426
ACFT	50650	34620	38240	33830	28000	39510	86540	203700	163700	70840	43760	33340

CAL YR 1984 TOTAL 501562 MEAN 1370 MAX 6150 MIN 270 ACFT 994800
WTR YR 1985 TOTAL 416775 MEAN 1142 MAX 4170 MIN 272 ACFT 826700

09339900 EAST FORK SAN JUAN RIVER ABOVE SAND CREEK, NEAR PAGOSA SPRINGS, CO

LOCATION.--Lat 37°23'23", long 106°50'26", Archuleta County, Hydrologic Unit 14080101, on right bank 0.3 mi upstream from Sand Creek, 4.0 mi upstream from West Fork San Juan River, and 13 mi northeast of Pagosa Springs.

DRAINAGE AREA.--64.1 mi^2.

PERIOD OF RECORD.--October 1956 to current year. Prior to October 1959, published as San Juan River above Sand Creek, near Pagosa Springs.

REVISED RECORDS.--WSP 1713: 1957.

GAGE.--Water-stage recorder. Elevation of gage is 8,900 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 30 to Dec. 9, Dec. 18 to Apr. 1. Records good except for estimated daily discharges, which are poor. Diversions above station for irrigation of about 500 acres of hay meadows above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--29 years, 88.7 ft^3/s; 64,260 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,260 ft^3/s, Sept. 14, 1970, gage height, 6.75 ft, from rating curve extended above 460 ft^3/s, on basis of slope-area measurement at gage height 6.13 ft; minimum daily determined, 3.4 ft^3/s, Dec. 26, 1958.

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since at least 1885 occurred Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 15	1900	644	4.78	June 8	2100	*1,260	*5.80
May 5	2200	1,080	5.46	June 19	1800	782	5.06
May 28	2200	814	5.12	June 25	0800	782	5.00

Minimum daily discharge, 11 ft^3/s Feb. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	58	26	30	14	24	38	301	471	294	95	25
2	70	59	28	24	16	22	42	354	490	273	163	26
3	65	60	28	26	18	22	57	487	539	269	126	25
4	74	58	28	26	17	20	70	676	491	273	108	26
5	68	58	28	26	18	20	85	869	426	281	94	25
6	64	56	22	26	17	20	109	881	433	269	83	24
7	58	53	24	26	18	20	148	836	644	245	75	24
8	56	52	26	26	18	20	194	814	1020	236	76	23
9	56	46	26	26	18	22	237	747	967	254	82	23
10	54	40	27	24	15	28	265	734	887	227	71	22
11	52	42	29	24	16	44	297	544	839	222	67	69
12	66	43	30	20	17	48	329	442	709	195	63	94
13	68	44	29	19	17	44	394	347	665	202	55	38
14	74	44	28	20	17	38	444	272	635	198	50	33
15	67	40	28	20	18	36	531	250	646	181	46	71
16	63	40	26	19	19	36	556	277	693	158	44	72
17	57	41	26	20	20	36	521	282	659	138	41	49
18	64	40	26	20	20	38	496	294	593	145	40	100
19	60	36	26	20	20	40	456	298	648	124	38	200
20	58	33	28	20	20	40	328	278	599	113	38	156
21	56	33	24	20	20	40	259	270	591	108	38	156
22	54	34	18	20	20	40	207	270	567	99	34	135
23	53	33	19	20	19	40	173	368	546	92	32	110
24	52	33	20	20	19	44	158	417	535	85	30	92
25	52	32	24	20	20	50	166	517	654	77	29	80
26	52	29	28	20	20	55	155	565	542	71	27	72
27	55	22	30	20	20	50	142	673	398	68	27	66
28	52	24	50	19	22	48	158	680	351	87	26	76
29	53	26	65	18	---	44	189	729	330	215	26	90
30	56	26	46	16	---	40	241	634	310	173	25	71
31	59	---	34	15	---	36	---	517	---	108	25	---
TOTAL	1823	1235	897	670	513	1105	7445	15623	17878	5480	1774	2073
MEAN	58.8	41.2	28.9	21.6	18.3	35.6	248	504	596	177	57.2	69.1
MAX	74	60	65	30	22	55	556	881	1020	294	163	200
MIN	35	22	18	15	14	20	38	250	310	68	25	22
AC-FT	3620	2450	1780	1330	1020	2190	14770	30990	35460	10870	3520	4110

CAL YR 1984	TOTAL	40176	MEAN	110	MAX	994	MIN	11	AC-FT	79690
WTR YR 1985	TOTAL	56516	MEAN	155	MAX	1020	MIN	14	AC-FT	112100

09340800 WEST FORK SAN JUAN RIVER AT WEST FORK CAMPGROUND NEAR PAGOSA SPRINGS, CO

LOCATION.--Lat 37°27'01", long 106°54'40", Mineral County, Hydrologic Unit 14080101, 1.8 mi upstream from Wolf Creek, 30 ft upstream from West Fork bridge and 15 mi northeast of Pagosa Springs, Co.

DRAINAGE AREA.--50.5 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1, 1984 to September 1985.

GAGE.--Water-stage recorder. Elevation of gage is 7,935 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1-9, Nov. 20-22, 26-30, Dec. 1-8, 16-19, 21-28, 31, Jan. 1-9, 13-17, 30-31, Feb. 1-19, Mar. 5, 13, 23, 29-31. Records good except for estimated daily discharges, which are poor. No regulation or diversions.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,050 ft^3/s at 2200 May 8, gage height 5.25 ft; minimum daily, 11 ft^3/s Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	57	24	17	12	15	22	156	450	425	161	31
2	65	61	24	13	11	16	23	174	489	405	246	37
3	75	63	26	15	15	16	32	238	534	390	240	44
4	85	60	24	16	15	15	38	344	510	366	194	42
5	80	57	26	16	14	14	45	379	456	370	167	36
6	75	58	22	15	15	14	67	370	500	331	143	31
7	70	51	22	17	14	13	90	385	674	301	124	31
8	70	49	22	17	15	13	112	429	937	280	110	32
9	65	45	22	17	15	16	120	430	956	260	100	28
10	62	42	23	16	15	19	128	435	884	240	88	27
11	59	46	23	17	12	23	145	357	882	228	85	124
12	81	43	23	17	14	20	160	285	882	217	85	123
13	88	43	23	15	14	20	189	225	864	214	73	60
14	88	42	22	15	13	19	216	191	835	211	69	49
15	70	38	19	16	14	18	259	202	869	190	63	127
16	65	38	19	16	15	18	268	227	905	172	58	101
17	58	37	19	15	16	18	260	224	818	160	53	77
18	64	35	18	17	18	19	268	232	804	160	52	225
19	59	33	18	17	17	19	215	224	792	148	50	354
20	60	30	20	17	16	19	161	214	751	130	48	254
21	57	28	17	17	16	17	127	216	732	126	49	252
22	55	30	13	17	15	17	106	211	703	126	43	215
23	57	30	12	16	15	16	94	251	684	118	41	170
24	55	29	13	16	15	19	94	304	672	128	38	146
25	55	30	15	16	14	29	92	388	737	116	37	124
26	57	26	20	16	14	31	83	478	621	102	36	112
27	60	19	20	16	14	23	83	553	527	94	33	104
28	54	22	22	15	15	18	94	599	486	117	36	110
29	55	26	23	16	---	16	104	612	461	348	35	114
30	58	24	21	14	---	15	121	579	436	246	32	96
31	60	---	19	12	---	17	---	502	---	185	30	---
TOTAL	2002	1192	634	492	408	562	3816	10414	20851	6904	2619	3276
MEAN	64.6	39.7	20.5	15.9	14.6	18.1	127	336	695	223	84.5	109
MAX	88	63	26	17	18	31	268	612	956	425	246	354
MIN	40	19	12	12	11	13	22	156	436	94	30	27
AC-FT	3970	2360	1260	976	809	1110	7570	20660	41360	13690	5190	6500

WTR YR 1985 TOTAL 53170 MEAN 146 MAX 956 MIN 11 AC-FT 105500

09340800 WEST FORK SAN JUAN RIVER AT WEST FORK CAMPGROUND NEAR PAGOSA SPRINGS, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: November 1984 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV										
27...	1300	28	57	--	.0	1.4	10.9	100	.6	K1
JAN										
28...	1150	15	57	6.3	.0	--	10.9	101	.1	K1
APR										
23...	1045	90	59	7.0	3.0	--	12.4	120	.3	K1
SEP										
18...	0930	114	41	6.0	8.0	--	11.9	129	.5	K20

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
NOV										
27...	120	20	<.1	6.5	.91	4.0	.4	1.2	--	5.5
JAN										
28...	120	20	<.1	6.4	1.0	4.3	.4	1.0	21	6.8
APR										
23...	K9	20	<.1	6.5	.90	3.3	.3	1.1	22	6.4
SEP										
18...	K260	18	<.1	5.8	.90	3.1	.3	1.1	17	7.7

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)
NOV										
27...	.70	<.10	21	43	53	.06	3.3	<.010	<.010	<.10
JAN										
28...	.30	.10	22	49	55	.07	2.0	.100	<.010	<.10
APR										
23...	.40	<.10	20	50	52	.07	12	<.010	<.010	<.10
SEP										
18...	.30	<.10	17	45	46	.06	14	.010	<.010	<.10

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV								
27...	<.10	.020	.050	--	.040	.020	.010	<.010
JAN								
28...	<.10	<.010	.010	<.20	.030	.020	.030	.010
APR								
23...	<.10	.050	.040	--	.030	.030	.020	.020
SEP								
18...	<.10	.060	.060	--	.070	.020	.020	.020

K BASED ON NON-IDEAL COLONY COUNT.

09340800 WEST FORK SAN JUAN RIVER AT WEST FORK CAMPGROUND NEAR PAGOSA SPRINGS, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
NOV 27...	1300	<100	<1	12	<.5	<1	<3	<10	10
JAN 28...	1150	<100	<1	12	<.5	<1	<3	<10	60
APR 23...	1045	400	<1	12	1.7	<1	<3	<10	230
SEP 18...	0930	<100	<1	14	<.5	<1	<3	<10	500

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV 27...	13	<10	<4	<1	<10	4	40	<6	12
JAN 28...	43	<10	8	6	<10	<1	38	<6	13
APR 23...	84	<10	<4	5	<10	4	39	<6	15
SEP 18...	58	<10	<4	4	<10	2	37	<6	26

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
APR 17...	1100	237	23	15	78
MAY 07...	1320	325	45	39	65
28...	1325	540	46	67	52
JUN 10...	1130	790	143	305	38
18...	1330	708	51	97	41
JUL 01...	1120	407	8	8.8	54
10...	1300	215	17	9.9	26
JUL 18...	1200	147	3	1.2	43
AUG 08...	1300	106	2	.57	89
SEP 04...	1145	50	2	.27	57
18...	0930	114	7	2.2	39

09341300 WOLF CREEK AT WOLF CREEK CAMPGROUND NEAR PAGOSA SPRINGS, CO

LOCATION.--Lat 37°26'31", long 106°53'11", Mineral County, Hydrologic Unit 14080101, 0.8 mi upstream from mouth, 10 ft downstream from bridge at Wolf Creek and 14 mi northeast of Pagosa Springs, Co.

DRAINAGE AREA.--18.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1968 to September 1975, October 1984 to September 1985. Streamflow and water quality records for October 1968 to September 1975 at site 0.3 mi upstream not equivalent because of inflow between sites.

GAGE.--Water-stage recorder. Elevation of gage is 7,830 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 1-9, Dec. 16-18, 21-25, Jan. 4-6, 13, 17, 29-31, Feb. 1-5, 11, 24, 27, Mar. 4-5. Records good except for estimated daily discharges, which are fair. No regulation. Small transmountain diversion above station by Treasure Pass diversion ditch to South Fork Rio Grande drainage and small diversion by U.S. Forest Service for fish pond 0.3 mi above gage.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 526 ft^3/s at 1900 June 7, gage-height 3.79 ft; minimum daily discharge, 3.4 ft^3/s Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	17	6.3	5.2	3.8	6.6	8.5	57	244	142	43	5.4
2	24	17	6.0	4.9	3.4	6.8	11	71	262	132	105	5.4
3	30	18	5.7	5.4	4.2	6.6	15	118	283	125	81	6.3
4	32	18	6.2	5.5	4.6	6.0	18	151	268	120	59	6.3
5	30	18	6.0	5.5	4.4	5.5	22	139	301	120	47	6.0
6	28	16	6.0	5.5	4.4	6.0	27	142	364	112	41	5.2
7	24	15	6.0	5.7	4.2	5.7	38	150	398	102	33	4.2
8	24	15	5.7	5.4	4.2	6.0	53	165	378	94	29	4.2
9	24	13	5.7	5.4	4.2	6.6	61	163	390	86	27	3.9
10	23	12	5.7	4.9	4.4	6.8	65	165	340	82	23	3.7
11	24	12	5.4	4.9	3.8	8.5	68	143	322	78	21	16
12	31	12	5.3	5.0	4.4	8.1	72	115	310	71	21	23
13	32	12	6.0	4.8	4.4	7.1	86	92	298	69	18	10
14	33	12	5.7	5.0	4.6	7.4	106	75	289	69	16	8.8
15	29	11	5.4	4.9	5.2	7.8	120	92	292	56	15	35
16	26	11	5.0	5.2	6.3	7.4	132	119	286	48	14	25
17	25	11	5.0	5.0	7.1	8.1	137	123	253	43	12	19
18	25	9.6	5.0	5.2	7.1	9.9	134	128	268	39	12	67
19	24	9.2	4.9	5.2	6.8	10	110	125	259	38	12	113
20	22	9.2	5.2	5.3	6.6	9.6	78	123	247	34	11	92
21	21	8.5	4.8	5.4	6.6	9.6	58	110	256	32	10	90
22	20	8.8	3.8	5.4	6.0	8.5	45	96	247	30	9.9	80
23	20	8.8	3.6	5.4	5.7	7.8	38	162	229	28	9.2	65
24	19	8.5	3.6	5.2	4.8	9.6	37	189	223	31	8.8	51
25	17	8.5	4.0	5.2	6.0	12	36	225	227	29	8.1	44
26	17	8.1	5.0	5.2	5.7	13	32	270	205	24	7.8	38
27	17	7.1	5.4	5.2	5.5	12	31	292	178	22	7.4	33
28	17	6.8	6.3	5.2	6.3	11	34	342	168	28	7.1	39
29	16	6.8	6.0	4.8	---	10	38	308	160	123	7.1	45
30	17	6.3	5.7	4.6	---	8.8	44	263	148	90	6.3	36
31	17	---	5.7	3.8	---	8.1	---	244	---	55	5.7	---
TOTAL	723	346.2	166.1	159.3	144.7	256.9	1754.5	4957	8093	2152	727.4	980.4
MEAN	23.3	11.5	5.36	5.14	5.17	8.29	58.5	160	270	69.4	23.5	32.7
MAX	33	18	6.3	5.7	7.1	13	137	342	398	142	105	113
MIN	15	6.3	3.6	3.8	3.4	5.5	8.5	57	148	22	5.7	3.7
AC-FT	1430	687	329	316	287	510	3480	9830	16050	4270	1440	1940

WTR YR 1985 TOTAL 20460.5 MEAN 56.1 MAX 398 MIN 3.4 AC-FT 40580

09341300 WOLF CREEK AT WOLF CREEK CAMPGROUND NEAR PAGOSA SPRINGS, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: November 1984 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV 27...	1430	8.8	66	--	.0	1.5	11.7	102	.2	K1
JAN 28...	1050	5.1	57	6.4	1.0	--	10.5	100	.1	K1
APR 23...	1215	39	73	7.2	2.0	--	12.8	121	.3	K1
SEP 18...	0830	27	50	6.0	7.0	--	11.8	125	.5	K22

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
NOV 27...	87	23	<.1	7.6	.99	3.7	.4	.90	--	5.4
JAN 28...	79	26	<.1	8.5	1.1	4.6	.4	.90	24	7.7
APR 23...	85	27	<.1	8.7	1.3	5.7	.5	1.2	26	7.0
SEP 18...	K410	20	<.1	6.4	.90	3.1	.3	1.0	22	8.0

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)
NOV 27...	.20	<.10	18	44	52	.06	1.0	<.010	<.010	.10
JAN 28...	.90	<.10	19	64	57	.09	.88	<.010	<.010	.20
APR 23...	.60	<.10	18	60	59	.08	6.3	<.010	<.010	<.10
SEP 18...	.40	<.10	15	47	49	.06	3.4	.010	<.010	<.10

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV 27...	<.10	.030	.010	--	--	.030	.020	.010	<.010
JAN 28...	.17	.030	.020	.30	.50	.030	.020	.030	.010
APR 23...	<.10	.050	.060	--	--	.040	.040	.020	.030
SEP 18...	.10	.060	.040	--	--	.070	.030	.030	<.010

K BASED ON NON-IDEAL COLONY COUNT.

09341300 WOLF CREEK AT WOLF CREEK CAMPGROUND NEAR PAGOSA SPRINGS, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
NOV 27...	1430	<100	<1	11	<.5	2	<3	<10	110
JAN 28...	1050	<100	<1	9	<.5	<1	<3	<10	110
APR 23...	1215	400	<1	12	2.4	<1	<3	<10	570
SEP 18...	0830	400	<1	13	<.5	<1	<3	<10	920

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV 27...	52	<10	<4	4	<10	6	37	<6	7
JAN 28...	31	<10	9	4	<10	<1	38	<6	18
APR 23...	110	<10	<4	4	<10	3	45	<6	16
SEP 18...	200	<10	<4	13	<10	2	33	<6	10

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
APR 17...	1245	124	19	6.4	70
MAY 08...	0910	160	37	16	52
28...	1525	314	345	292	36
JUN 10...	1315	330	174	155	53
18...	1400	256	110	76	--
JUL 01...	1250	136	7	2.6	70
10...	1420	78	7	1.5	47
JUL 18...	1230	40	9	.97	46
AUG 08...	1405	30	9	.73	43
SEP 04...	1200	6.3	5	.09	61
18...	0830	27	11	.80	80

09341350 WINDY PASS CREEK NEAR PAGOSA SPRINGS, CO

LOCATION.--Lat 37°26'21", long 106°52'46", Mineral County, Hydrologic Unit 14080101, 0.6 mi upstream from mouth, 40 ft upstream from U.S. Highway 160, and 14 mi northeast of Pagosa Springs, Co.

DRAINAGE AREA.--1.41 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1, 1984 to September 30, 1985.

GAGE.--Water-stage recorder. Elevation of gage is 8,030 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Nov. 10-13, 17-30, Dec. 1 to Apr. 5, May 4-19, 22-23, 28-31, June 1-10, 17-18, Sept. 14-17, 21-30. Records fair except for estimated daily discharges, which are poor. No diversions above gage. Small diversion for domestic use of guest ranch below gage.

EXTREMES FOR CURRENT YEAR.--Maximum discharge observed, 16 ft^3/s at 1800, May 8, gage-height, unknown, maximum gage-height recorded, 4.90 ft at 1500, May 4, backwater from plugged culvert; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	.47	.13	.10	.04	.22	.34	5.4	5.5	.16	.07	.00
2	.20	.52	.13	.09	.02	.22	.48	6.2	5.5	.16	.20	.00
3	.25	.52	.11	.09	.00	.20	.75	9.7	6.0	.14	.16	.00
4	.36	.58	.11	.10	.05	.18	1.1	15	5.5	.14	.14	.00
5	.36	.58	.11	.11	.07	.17	1.4	14	6.5	.11	.11	.00
6	.41	.58	.10	.11	.07	.18	2.1	14	7.5	.09	.14	.00
7	.41	.58	.11	.11	.07	.18	3.3	15	8.0	.09	.14	.00
8	.41	.58	.11	.11	.06	.20	4.7	16	7.5	.09	.14	.00
9	.36	.52	.10	.11	.06	.22	6.5	16	8.0	.09	.14	.00
10	.36	.46	.10	.09	.06	.24	6.8	15	7.0	.04	.14	.00
11	.36	.40	.10	.09	.05	.28	7.5	11	5.8	.02	.11	.03
12	.47	.36	.09	.10	.04	.26	8.2	7.5	5.6	.02	.11	.00
13	.47	.36	.09	.09	.06	.24	9.1	5.5	4.8	.04	.09	.00
14	.47	.36	.11	.08	.08	.24	10	4.2	4.3	.04	.07	.05
15	.47	.30	.10	.09	.10	.26	11	5.0	3.7	.02	.07	1.3
16	.41	.30	.08	.10	.17	.26	11	6.0	3.2	.07	.07	.07
17	.75	.30	.07	.10	.22	.30	12	6.0	2.6	.04	.04	.02
18	.58	.26	.07	.10	.22	.34	11	6.5	2.2	.02	.02	.09
19	.47	.20	.07	.11	.22	.34	9.1	6.0	1.6	.02	.02	.23
20	.41	.20	.07	.12	.20	.32	6.6	4.7	1.3	.02	.02	.25
21	.41	.18	.07	.12	.20	.32	5.5	4.1	.99	.02	.02	.90
22	.36	.20	.04	.12	.18	.30	4.3	4.0	.89	.02	.01	.70
23	.36	.20	.00	.12	.16	.28	3.5	6.5	.74	.02	.01	.55
24	.36	.19	.00	.12	.14	.38	3.4	7.2	.69	.02	.01	.42
25	.36	.19	.00	.12	.11	.44	3.2	11	.63	.02	.01	.32
26	.36	.19	.03	.12	.17	.42	3.2	13	.52	.02	.01	.24
27	.36	.19	.08	.12	.15	.40	3.1	14	.30	.01	.01	.14
28	.36	.16	.14	.12	.18	.36	3.3	12	.25	.02	.01	.28
29	.36	.15	.14	.10	---	.34	4.0	8.5	.20	.20	.01	.50
30	.41	.14	.12	.08	---	.30	4.7	7.5	.18	.11	.01	.44
31	.47	---	.12	.06	---	.28	---	6.0	---	.07	.00	---
TOTAL	12.31	10.22	2.70	3.20	3.15	8.67	161.17	282.5	107.49	1.95	2.11	6.53
MEAN	.40	.34	.09	.10	.11	.28	5.37	9.11	3.58	.06	.07	.22
MAX	.75	.58	.14	.12	.22	.44	12	16	8.0	.20	.20	1.3
MIN	.16	.14	.00	.06	.00	.17	.34	4.0	.18	.01	.00	.00
AC-FT	24	20	5.4	6.3	6.2	17	320	560	213	3.9	4.2	13

WTR YR 1985 TOTAL 602.00 MEAN 1.65 MAX 16 MIN .00 AC-FT 1190

09341350 WINDY PASS CREEK NEAR PAGOSA SPRINGS, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: November 1984 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV										
27...	1145	.19	87	--	.0	2.0	11.0	102	.2	K1
JAN										
28...	0930	.12	105	7.0	.0	--	10.8	100	.1	K1
APR										
23...	0830	3.7	87	6.9	1.0	--	11.0	100	.4	K1
SEP										
17...	1600	.01	102	6.4	10.0	--	--	--	.3	K6

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
NOV										
27...	K630	45	<.1	13	2.9	5.6	.4	1.1	--	5.5
JAN										
28...	490	45	<.1	13	2.9	5.8	.4	1.0	48	7.3
APR										
23...	560	37	<.1	11	2.2	4.8	.4	1.1	44	8.6
SEP										
17...	K620	47	<.1	14	3.0	6.0	.4	1.4	48	8.0

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)
NOV										
27...	.40	<.10	24	72	82	.10	.04	<.010	<.010	<.10
JAN										
28...	.50	.10	23	81	83	.11	.03	<.010	<.010	<.10
APR										
23...	.50	<.10	22	72	78	.10	.72	<.010	<.010	<.10
SEP										
17...	.50	<.10	25	91	87	.12	.00	<.010	<.010	<.10

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV								
27...	<.10	<.010	.030	--	.030	.050	.010	.030
JAN								
28...	<.10	.030	.020	.50	.040	.030	.030	.030
APR								
23...	<.10	.050	.050	--	.040	.040	.030	.020
SEP								
17...	<.10	.020	.020	--	.060	.030	.030	<.010

K BASED ON NON-IDEAL COLONY COUNT.

09341350 WINDY PASS CREEK NEAR PAGOSA SPRINGS, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
NOV									
27...	1145	<100	<1	23	<.5	1	<3	<10	60
JAN									
28...	0930	<100	<1	21	>.5	<1	<3	<10	90
APR									
23...	0830	600	<1	19	2.0	<1	<3	<10	470
SEP									
17...	1600	<100	1	28	<.5	<1	<3	<10	160

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV									
27...	53	<10	<4	<1	<10	2	92	<6	5
JAN									
28...	52	<10	5	6	<10	25	90	<6	25
APR									
23...	130	<10	<4	4	<10	5	73	<6	6
SEP									
17...	23	10	<4	3	<10	2	100	<6	22

SUSPENDED AND BEDLOAD SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDIMENT DISCHARGE, BEDLOAD (TONS/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
APR									
16...	1500	11	59	1.8	--	.40	.00	1	5
23...	0830	3.7	7	.07	--	.05	.00	1	2
MAY									
02...	1045	5.5	5	.07	--	--	--	--	--
08...	1830	16	82	3.5	32	4.0	1	1	4
13...	1250	5.9	16	.25	--	.27	.00	1	2
16...	0800	5.6	4	.06	51	.03	1	2	7
26...	1645	16	60	2.6	57	.44	1	2	7
30...	1020	5.9	15	.24	53	.13	.00	1	4
JUN									
03...	1100	5.9	9	.14	60	.02	1	2	6
10...	1530	7.2	30	.58	63	.60	1	1	3
13...	1650	4.4	23	.27	--	.02	1	4	16
18...	1425	1.7	24	.11	50	--	--	--	--
25...	1915	.64	12	.02	--	.01	1	2	11
JUL									
18...	1410	.02	0	.00	--	--	--	--	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
APR								
16...	12	22	35	50	63	70	79	100
23...	4	7	15	24	50	59	100	100
MAY								
02...	--	--	--	--	--	--	--	--
08...	12	22	34	45	56	70	84	100
13...	4	9	22	45	70	89	100	100
16...	15	26	48	70	85	100	100	100
26...	13	18	26	37	49	65	85	100
30...	9	15	25	46	48	60	67	100
JUN								
03...	8	10	19	44	81	100	100	100
10...	9	15	25	37	53	77	100	100
13...	29	39	49	60	74	100	100	100
18...	--	--	--	--	--	--	--	--
25...	37	64	81	98	100	100	100	100
JUL								
18...	--	--	--	--	--	--	--	--

09341500 WEST FORK SAN JUAN RIVER NEAR PAGOSA SPRINGS, CO

LOCATION.--Lat 37°23'31", long 106°54'24" T.36 N., R.1 W., Archuleta County, Hydrologic Unit 14080101, on right bank 1.9 mi upstream from mouth, 400 ft. downstream from Archuleta-Mineral County line and 11 mi northeast of Pagosa Springs, CO.

DRAINAGE AREA.--85.4 mi^2.

PERIOD OF RECORD.--Oct. 1984 to Sept. 1985.

GAGE.--Water-stage recorder. Elevation of gage is 7,645 ft above National Geodetic Vertical Datum of 1929, from topographic map. See WSP 1733 for history of changes prior to Sept. 28, 1984.

REMARKS.--Estimated daily discharges: Oct. 19-21, Nov. 20-23, Nov. 25-Dec. 19, Dec. 21- Feb. 20, Feb. 22-28, Mar. 1, 3-5, 7, 8, 29-31, Apr. 1. Records good except for estimated daily discharges, which are poor. Diversions above station for irrigation of about 550 acres above and 220 acres below station. Treasure Pass ditch above station exports water to Rio Grande basin.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,040 ft^3/s at 2200 June 8, gage height, 4.85 ft; minimum daily, 20 ft^3/s, Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	97	44	46	20	34	50	349	882	609	213	46
2	104	97	46	34	26	32	58	389	982	577	363	52
3	126	100	48	38	26	30	75	533	1090	545	355	60
4	141	100	46	40	24	28	97	755	1030	513	272	58
5	132	97	48	40	26	28	115	838	903	512	229	52
6	126	95	38	38	24	30	158	840	994	481	201	48
7	110	88	42	40	26	28	219	840	1290	439	175	44
8	110	80	44	40	26	28	289	911	1640	403	156	46
9	107	78	46	38	26	30	324	924	1630	367	147	42
10	102	73	44	38	22	42	345	936	1580	341	129	40
11	100	75	46	34	24	62	366	787	1530	330	123	116
12	128	70	44	28	24	70	390	643	1610	310	126	187
13	141	68	44	28	24	60	443	523	1510	305	105	85
14	144	68	42	30	24	54	503	440	1400	300	97	70
15	123	66	42	30	26	52	559	444	1430	266	93	175
16	112	66	40	28	28	50	576	503	1420	237	88	145
17	115	64	40	30	30	50	600	496	1260	213	80	113
18	112	62	38	30	30	54	600	512	1270	204	80	300
19	110	58	40	30	30	56	506	496	1250	192	78	524
20	100	55	43	32	30	54	381	463	1180	174	70	393
21	100	50	34	32	30	54	321	462	1150	165	73	384
22	98	55	26	30	30	54	266	450	1100	162	66	336
23	95	55	28	30	26	54	237	573	1030	153	62	271
24	95	56	30	30	28	58	232	678	1030	162	60	229
25	93	55	36	28	30	73	236	807	1140	153	56	197
26	90	50	42	30	28	80	213	969	940	132	54	172
27	90	36	42	30	30	75	200	1100	779	123	52	159
28	95	40	75	28	32	68	224	1190	721	141	54	177
29	90	48	100	26	---	60	269	1260	673	485	54	192
30	90	44	65	22	---	55	285	1150	633	371	50	157
31	95	---	50	22	---	50	---	999	---	254	48	---
TOTAL	3338	2046	1393	1000	750	1553	9137	22260	35077	9619	3809	4870
MEAN	108	68.2	44.9	32.3	26.8	50.1	305	718	1169	310	123	162
MAX	144	100	100	46	32	80	600	1260	1640	609	363	524
MIN	64	36	26	22	20	28	50	349	633	123	48	40
AC-FT	6620	4060	2760	1980	1490	3080	18120	44150	69580	19080	7560	9660

WTR YR 1985 TOTAL 94852 MEAN 260 MAX 1640 MIN 20 AC-FT 188100

09341500 WEST FORK SAN JUAN RIVER NEAR PAGOSA SPRINGS, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: April 19,1985 to September 30,1985.

INSTRUMENTATION.--Pumping sediment sampler since April 1985.

REMARKS.--Daily-sediment discharge based on once daily samples April 24 to May 2, June 27 to Sept.30, and twice daily samples from April 19-23 and May 2 to June 27.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATION: Maximum daily mean, 2,630 mg/L May 16; minimum daily mean, 1 mg/L Aug.26,30,31, Sept.1-2.
SEDIMENT LOADS: Maximum daily, 3,550 tons/day May 16; minimum daily, .12 tons/day Sept.1.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV											
27...	0930	25	83	6.3	.0	7	1.8	10.8	98	.3	K1
DEC											
20...	1100	37	100	6.2	1.0	--	--	10.6	100	--	--
JAN											
28...	1445	31	76	7.8	1.0	--	--	10.6	100	.1	K1
FEB											
27...	1030	34	88	7.2	1.0	--	--	11.2	100	--	--
MAR											
26...	0945	78	76	6.6	2.0	--	--	10.7	100	--	--
APR											
23...	1400	240	88	6.5	4.0	--	--	11.2	112	.5	K1
MAY											
23...	1115	549	60	6.4	7.0	--	--	9.6	100	--	--
JUN											
27...	1130	745	39	6.1	4.5	--	--	9.9	96	--	--
JUL											
18...	0930	195	50	6.7	11.0	--	--	8.8	101	--	--
AUG											
16...	1210	91	55	6.6	14.0	--	--	7.4	92	--	--
SEP											
17...	1400	105	50	6.3	14.5	--	--	8.5	107	.4	K4

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)
NOV										
27...	350	32	<.1	10	1.6	5.3	.4	1.2	--	<.5
DEC										
20...	--	29	<.1	8.8	1.6	5.0	.4	1.1	33	--
JAN										
28...	230	30	<.1	9.5	1.4	5.2	.4	1.1	32	--
FEB										
27...	--	32	<.1	10	1.6	5.9	.5	1.1	35	--
MAR										
26...	--	38	<.1	12	1.9	5.9	.4	1.3	29	--
APR										
23...	90	29	<.1	9.3	1.5	5.0	.4	1.3	31	--
MAY										
23...	--	26	<.1	8.2	1.3	3.6	.3	1.2	21	--
JUN										
27...	--	14	<.1	4.5	.60	2.1	.3	1.0	13	--
JUL										
18...	--	17	<.1	5.5	.80	2.9	.3	1.1	18	--
AUG										
16...	--	21	<.1	6.8	1.0	3.6	.4	1.2	23	--
SEP										
17...	48	21	<.1	6.8	1.0	3.3	.3	1.1	21	--

K BASED ON NON-IDEAL COLONY COUNT

09341500 WEST FORK SAN JUAN RIVER NEAR PAGOSA SPRINGS, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
NOV										
27...	6.6	.30	<.10	23	61	70	.08	4.1	<.010	<.010
DEC										
20...	6.1	.40	<.10	21	63	64	.09	6.3	--	--
JAN										
28...	7.4	.50	.20	22	59	67	.08	4.9	<.010	<.010
FEB										
27...	7.3	.60	<.10	22	61	70	.08	5.6	--	--
MAR										
26...	--	--	--	20	--	--	--	--	--	--
APR										
23...	7.7	.70	<.10	19	64	64	.09	41	<.010	<.010
MAY										
23...	6.4	.60	<.10	19	52	53	.07	77	--	--
JUN										
27...	4.1	.30	<.10	16	28	37	.04	56	--	--
JUL										
18...	4.4	.30	<.10	17	40	43	.05	21	--	--
AUG										
16...	5.5	.30	.20	19	52	51	.07	13	--	--
SEP										
17...	7.6	<.20	<.10	18	48	--	.07	14	<.010	<.010

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV									
27...	<.10	<.10	<.010	.010	--	.020	.010	<.010	<.010
DEC									
20...	--	--	--	--	--	--	--	--	--
JAN									
28...	<.10	<.10	.010	.030	<.20	.020	.010	.020	<.010
FEB									
27...	--	--	--	--	--	--	--	--	--
MAR									
26...	--	--	--	--	--	--	--	--	--
APR									
23...	<.10	<.10	.040	.050	--	.050	.030	.020	.030
MAY									
23...	--	--	--	--	--	--	--	--	--
JUN									
27...	--	--	--	--	--	--	--	--	--
JUL									
18...	--	--	--	--	--	--	--	--	--
AUG									
16...	--	--	--	--	--	--	--	--	--
SEP									
17...	<.10	<.10	.030	.040	--	.050	.020	.020	.010

09341500 WEST FORK SAN JUAN RIVER NEAR PAGOSA SPRINGS, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
NOV												
27...	0930	<100	<1	17	<.5	30	<1	<1	<2	<3	<10	30
DEC												
20...	1100	--	--	20	.9	--	<1	--	--	<3	<10	--
JAN												
28...	1445	<100	<1	14	<.5	--	<1	--	--	<3	<10	110
FEB												
27...	1030	--	--	22	1.4	--	2	--	--	<3	<10	--
MAR												
26...	0945	--	--	23	<.5	--	2	--	--	<3	<10	--
APR												
23...	1400	300	<1	18	2.4	--	<1	--	--	<3	<10	780
MAY												
23...	1115	--	--	23	<.5	--	<1	--	--	<3	10	--
JUN												
27...	1130	--	--	18	<.5	--	<1	--	--	<3	10	--
JUL												
18...	0930	--	--	23	<.5	--	<1	--	--	<3	<10	--
AUG												
16...	1210	--	--	6	<.5	--	<1	--	--	<3	<10	--
SEP												
17...	1400	<100	<1	13	<.5	--	<1	--	--	<3	<10	290

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV												
27...	28	<10	<4	17	.1	<10	5	<1	<1	60	<6	<3
DEC												
20...	24	<10	<4	12	--	<10	--	--	--	54	<6	6
JAN												
28...	38	<10	8	10	--	<10	3	--	--	53	<6	16
FEB												
27...	25	<10	<4	10	--	<10	--	--	--	58	<6	6
MAR												
26...	230	<10	<4	24	--	<10	--	--	--	67	<6	33
APR												
23...	110	<10	<4	12	--	<10	6	--	--	59	<6	10
MAY												
23...	110	<10	4	10	--	<10	--	--	--	46	<6	10
JUN												
27...	22	<10	<4	5	--	<10	--	--	--	27	<6	32
JUL												
18...	21	<10	<4	6	--	<10	--	--	--	34	<6	13
AUG												
16...	18	<10	<4	8	--	<10	--	--	--	42	<6	12
SEP												
17...	36	<10	<4	7	--	<10	2	--	--	40	<6	10

DATE	TIME	CYANIDE TOTAL (MG/L AS CN)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	PCB, TOTAL (UG/L)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLORDANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)
NOV												
27...	0930	.01	<.01	<.1	<.10	<.010	<.1	<.010	<.010	<.010	<.01	<.010

DATE	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARATHION, TOTAL (UG/L)
NOV												
27...	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01	<.01	<.01	<.01	<.01

09341500 WEST FORK SAN JUAN RIVER NEAR PAGOSA SPRINGS, CO--Continued

WATER QUALLITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	PER-THANE TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	BENZENE TOTAL (UG/L)	BROM-OFORM TOTAL (UG/L)	CARBON-TETRA-CHLO-RIDE TOTAL (UG/L)	CHLORO-BENZENE TOTAL (UG/L)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L)
NOV 27...	<.1	<1	<.01	<.01	<.01	<.01	<.01	<3.0	<3.0	<3.0	<3.0	<3.0

DATE	CHLORO-ETHANE TOTAL (UG/L)	CHLORO-FORM TOTAL (UG/L)	DI-CHLORO-BROMO-METHANE TOTAL (UG/L)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L)	ETHYL-BENZENE TOTAL (UG/L)	METHYL-BROMIDE TOTAL (UG/L)	METHYL-ENE CHLO-RIDE TOTAL (UG/L)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L)	TOLUENE TOTAL (UG/L)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L)	TRI-CHLORO-FLOURO-METHANE TOTAL (UG/L)
NOV 27...	<3.0	<3	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

DATE	VINYL CHLO-RIDE TOTAL (UG/L)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L)	1,1,2,2 TETRA-CHLORO-ETHANE TOTAL (UG/L)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L)	1,3-DI-CHLORO-PROPENE TOTAL (UG/L)	1,2-TRANSDI CHLORO-ETHYL-ENE TOTAL (UG/L)	2-CHLORO-ETHYL-VINYL-ETHER TOTAL (UG/L)
NOV 27...	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

SUSPENDED AND BEDLOAD SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT DIS-CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
MAR 26...	0945	78	16	3.4	--	--	--	--	--
APR 17...	1645	585	132	208	--	15	.00	1	2
23...	1400	240	265	172	5	1.0	.00	2	17
MAY 02...	1500	350	43	41	--	7.4	.00	1	1
05...	1530	850	215	493	67	2.6	.00	1	8
08...	1530	848	144	330	76	3.8	1	2	8
12...	1515	608	37	61	68	12	.00	.00	1
15...	1705	474	201	257	88	1.6	1	1	5
20...	1715	450	26	32	81	5.8	.00	.00	1
26...	1840	1180	475	1510	48	16	1	3	22
30...	1655	1080	98	286	53	65	.00	1	3
JUN 03...	1810	1160	103	323	47	49	.00	.00	2
06...	1750	1070	85	246	44	20	.00	.00	2
10...	1725	1700	482	2210	36	--	--	--	--
15...	1810	1670	454	2050	33	--	--	--	--
18...	1200	1120	63	191	44	28	.00	.00	.00
JUL 18...	0930	195	6	3.2	57	.27	1	2	14
SEP 17...	1400	105	1	.28	30	--	--	--	--

09341500 WEST FORK SAN JUAN RIVER NEAR PAGOSA SPRINGS, CO--Continued

SUSPENDED AND BEDLOAD SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
MAR								
26...	--	--	--	--	--	--	--	--
APR								
17...	23	43	67	86	97	99	100	100
23...	44	71	92	100	100	100	100	100
MAY								
02...	24	51	69	76	82	92	100	100
05...	55	70	73	74	75	75	83	100
08...	45	62	69	72	75	82	100	100
12...	19	45	68	78	84	89	90	100
15...	40	67	84	91	93	93	100	100
20...	19	46	74	87	93	99	100	100
26...	65	72	74	76	78	82	100	100
30...	11	16	20	24	28	40	63	88
JUN								
03...	8	12	15	18	23	31	38	40
06...	11	16	17	18	20	27	35	100
10...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
18...	1	2	2	3	7	20	50	81
JUL								
18...	42	81	96	99	100	100	100	100
SEP								
17...	--	--	--	--	--	--	--	--

09341500 WEST FORK SAN JUAN RIVER NEAR PAGOSA SPRINGS, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	50	---	---	349	103	97	882	230	548
2	58	---	---	389	139	159	982	340	901
3	75	---	---	533	500	720	1090	345	1020
4	97	---	---	755	890	1810	1030	153	425
5	115	---	---	838	800	1810	903	122	297
6	158	---	---	840	760	1720	994	110	295
7	219	---	---	840	550	1250	1290	300	1040
8	289	---	---	911	900	2210	1640	645	2860
9	324	---	---	924	400	998	1630	460	2020
10	345	---	---	936	280	708	1580	325	1390
11	366	---	---	787	400	850	1530	355	1470
12	390	---	---	643	430	747	1610	338	1470
13	443	---	---	523	313	442	1510	318	1300
14	503	---	---	440	780	927	1400	239	903
15	559	---	---	444	390	468	1430	203	784
16	576	---	---	503	2630	3550	1420	233	893
17	600	---	---	496	2600	3480	1260	118	401
18	600	---	---	512	640	893	1270	92	315
19	506	1200	1640	496	190	254	1250	123	415
20	381	672	691	463	265	331	1180	114	363
21	321	552	478	462	205	256	1150	184	571
22	266	552	396	450	260	316	1100	86	255
23	237	600	384	573	304	470	1030	62	172
24	232	442	277	678	335	613	1030	109	303
25	236	288	184	807	340	741	1140	319	982
26	213	162	93	969	400	1050	940	184	467
27	200	211	114	1100	535	1590	779	91	191
28	224	136	82	1190	730	2350	721	33	64
29	269	98	71	1260	910	3100	673	30	55
30	285	172	132	1150	990	3070	633	25	43
31	---	---	---	999	435	1170	---	---	---
TOTAL	9137	---	4542	22260	---	38150	35077	---	22213
		JULY			AUGUST			SEPTEMBER	
1	609	27	44	213	20	12	46	1	.12
2	577	27	42	363	50	86	52	1	.14
3	545	22	32	355	54	52	60	2	.32
4	513	23	32	272	46	34	58	2	.31
5	512	22	30	229	44	27	52	2	.28
6	481	14	18	201	48	26	48	2	.26
7	439	16	19	175	42	20	44	2	.24
8	403	12	13	156	24	10	46	2	.25
9	367	9	8.9	147	8	3.2	42	2	.23
10	341	7	6.4	129	4	1.4	40	2	.22
11	330	7	6.2	123	3	1.0	116	40	124
12	310	8	6.7	126	4	1.4	187	288	153
13	305	9	7.4	105	4	1.1	85	60	14
14	300	15	12	97	4	1.0	70	8	1.5
15	266	13	9.3	93	4	1.0	175	42	22
16	237	9	5.8	88	3	.71	145	22	8.6
17	213	30	17	80	2	.43	113	8	2.4
18	204	36	20	80	4	.86	300	54	68
19	192	63	33	78	4	.84	524	114	161
20	174	53	25	70	3	.57	393	59	63
21	165	49	22	73	3	.59	384	37	38
22	162	33	14	66	2	.36	336	18	16
23	153	24	9.9	62	2	.33	271	19	14
24	162	52	23	60	2	.32	229	60	37
25	153	28	12	56	2	.30	197	66	35
26	132	18	6.4	54	1	.15	172	12	5.6
27	123	17	5.6	52	2	.28	159	13	5.6
28	141	19	7.2	54	2	.29	177	8	3.8
29	485	1810	2510	54	2	.29	192	9	4.7
30	371	649	705	50	1	.14	157	6	2.5
31	254	36	25	48	1	.13	---	---	---
TOTAL	9619	---	3727.8	3809	---	283.69	4870	---	782.07

09342500 SAN JUAN RIVER AT PAGOSA SPRINGS, CO

LOCATION.--Lat 37°15'58", long 107°00'37", in NE¼SW¼ sec.13, T.35 N., R.2 W., Archuleta County, Hydrologic Unit 14080101, on right bank at former bridge site in Pagosa Springs, 0.2 mi upstream from McCabe Creek, 0.6 mi downstream from bridge on U.S. Highway 160, and 2.0 mi upstream from Mill Creek.

DRAINAGE AREA.--298 mi^2.

PERIOD OF RECORD.--October 1910 to December 1914, May 1935 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1313: 1914(M).

GAGE.--Water-stage recorder. Datum of gage is 7,052.04 ft above National Geodetic Vertical Datum of 1929. Jan 29 to Mar. 6, 1911, nonrecording gage at site 0.5 mi upstream, at different datum. Mar. 7 to Oct. 4, 1911, nonrecording gage at present site, at different datum. Nov. 23, 1911, to Nov. 14, 1914, nonrecording gage at site 300 ft downstream, at different datum.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation of large areas above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--54 years, 377 ft^3/s; 273,140 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft^3/s, Oct. 5, 1911, gage height, 17.8 ft, from floodmarks, from velocity-area study; minimum daily, 9.7 ft^3/s, Oct. 5, 6, 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1885, that of Oct. 5, 1911. Flood of June 29, 1927, reached a stage of 13.5 ft, discharge about 16,000 ft^3/s, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 15	2130	2,480	5.22	June 8	2300	*4,110	*6.65
May 5	2200	3,150	5.96	June 25	0430	2,340	5.14
May 29	0030	3,280	6.00	Sept 19	0600	1,620	4.37

Minimum daily discharge, 57 ft^3/s, Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	227	107	118	64	110	262	1210	2020	1170	442	79
2	251	228	108	88	57	116	327	1320	2140	1070	846	79
3	334	235	95	101	77	108	438	1770	2260	1030	784	97
4	399	230	112	105	77	97	596	2470	2150	1010	604	92
5	345	221	114	105	74	90	698	2800	1860	1010	517	95
6	332	221	95	103	77	101	861	2800	1980	980	438	87
7	284	207	101	110	74	95	1050	2650	2590	891	381	82
8	265	200	107	110	80	95	1270	2660	3560	830	341	82
9	256	192	112	106	80	114	1420	2590	3650	822	344	79
10	241	161	108	101	77	223	1450	2600	3360	740	290	76
11	219	170	112	94	62	488	1550	2210	3080	726	268	163
12	264	170	110	87	71	453	1600	1750	2990	656	262	460
13	319	170	108	78	71	358	1780	1430	2910	650	228	144
14	332	168	107	78	70	325	1930	1160	2750	640	199	120
15	294	156	107	82	73	312	2090	1100	2760	591	169	318
16	265	154	103	82	79	300	2150	1250	2870	551	156	345
17	259	158	99	77	85	316	2090	1230	2550	486	140	223
18	259	151	97	82	94	347	2120	1280	2370	475	134	451
19	256	140	99	85	89	340	1930	1310	2440	460	136	1160
20	244	130	107	85	97	305	1410	1230	2290	417	128	809
21	232	124	94	90	95	328	1210	1200	2270	396	130	860
22	222	130	73	90	89	324	1050	1160	2190	392	118	741
23	219	130	65	85	92	291	892	1450	2060	372	112	588
24	219	130	73	87	77	327	835	1600	1990	356	105	492
25	216	128	77	83	94	399	835	1970	2240	364	101	429
26	216	120	107	80	90	408	777	2280	1920	309	101	369
27	229	84	108	87	92	334	689	2640	1530	280	92	329
28	216	90	261	83	105	316	753	2800	1350	290	92	348
29	213	117	200	82	---	280	1140	2890	1280	881	90	446
30	224	103	154	76	---	259	1090	2650	1190	845	87	350
31	232	---	130	64	---	244	---	2280	---	551	83	---
TOTAL	8010	4845	3450	2784	2262	8203	36293	59740	70600	20241	7918	9993
MEAN	258	162	111	89.8	80.8	265	1210	1927	2353	653	255	333
MAX	399	235	261	118	105	488	2150	2890	3650	1170	846	1160
MIN	154	84	65	64	57	90	262	1100	1190	280	83	76
AC-FT	15890	9610	6840	5520	4490	16270	71990	118500	140000	40150	15710	19820

CAL YR 1984	TOTAL	163853	MEAN	448	MAX	3810	MIN	65	AC-FT	325000
WTR YR 1985	TOTAL	234339	MEAN	642	MAX	3650	MIN	57	AC-FT	464800

09343300 RIO BLANCO BELOW BLANCO DIVERSION DAM, NEAR PAGOSA SPRINGS, CO

LOCATION.--Lat 37°12'11", long 106°48'45", in NW¼ sec.11, T.34 N., R.1 E., Archuleta County, Hydrologic Unit 14080101, on left bank 250 ft downstream from Blanco Diversion Dam, 1.1 mi downstream from Leche Creek, and 12 mi southeast of Pagosa Springs.

DRAINAGE AREA.--69.1 mi^2.

PERIOD OF RECORD.--March 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7,848.81 ft above National Geodetic Vertical Datum of 1929 (levels by U. S. Bureau of Reclamation).

REMARKS.--Estimated daily discharges: Oct. 27 to Nov. 1, Nov. 27 to Dec. 2, 6-8, 25, Jan. 2-7, 11-21, Feb. 1-7, Sept. 12-18, 22-30. Records good except for estimated daily discharges, which are fair. Flows controlled by diversion dam upstream.

AVERAGE DISCHARGE.--13 years, 39.5 ft^3/s; 28,620 acre-ft/yr.

COOPERATION.--Records collected by U.S. Bureau of Reclamation, computed by Colorado Division of Water Resources, and reviewed by Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,810 ft^3/s June 8, 1985, gage height, 4.75 ft; minimum daily, 6.9 ft^3/s, Dec. 29, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,810 ft^3/s at 2100 June 8, gage height, 4.75 ft; minimum daily, 14 ft^3/s, Feb. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	75	25	30	18	25	42	61	432	336	81	22
2	122	85	25	28	16	26	63	91	486	300	321	24
3	115	114	27	28	18	24	128	188	494	295	202	26
4	158	82	31	30	22	21	178	539	425	290	152	32
5	160	78	29	32	20	20	90	546	323	285	110	26
6	117	74	28	32	18	23	22	528	628	263	90	24
7	92	59	32	34	14	22	27	604	1040	237	76	24
8	83	55	30	35	24	22	35	619	1330	218	66	27
9	76	51	30	34	25	28	36	418	1290	237	62	24
10	70	45	30	31	24	40	52	352	1160	230	56	19
11	60	52	31	26	22	85	59	209	1020	226	58	149
12	136	59	30	24	23	59	53	103	886	204	56	90
13	134	60	31	24	24	49	79	53	846	207	44	45
14	132	54	29	26	23	45	153	47	792	215	40	36
15	96	49	28	26	26	44	229	58	806	209	38	140
16	70	47	26	22	30	42	201	95	753	200	32	90
17	75	46	25	22	34	42	106	158	575	168	32	60
18	84	44	26	22	32	45	127	211	565	181	32	140
19	72	39	26	24	27	46	78	200	635	152	34	389
20	66	36	24	26	28	42	23	197	595	132	36	250
21	62	34	23	26	27	40	21	204	575	125	38	285
22	58	38	17	26	25	39	21	204	528	108	34	200
23	58	36	20	25	25	34	24	250	528	105	32	140
24	57	36	24	25	21	44	24	280	494	69	32	110
25	58	32	27	24	21	60	20	280	615	33	30	90
26	63	29	28	22	21	62	20	328	432	45	29	80
27	65	20	39	23	20	53	20	390	342	50	28	70
28	60	20	73	23	24	49	20	388	348	126	28	90
29	65	25	44	22	---	40	24	524	342	350	26	130
30	70	25	34	21	---	41	38	575	345	164	24	90
31	75	---	30	20	---	40	---	486	---	99	23	---
TOTAL	2638	1499	922	813	652	1252	2013	9186	19630	5859	1942	2922
MEAN	85.1	50.0	29.7	26.2	23.3	40.4	67.1	296	654	189	62.6	97.4
MAX	160	114	73	35	34	85	229	619	1330	350	321	389
MIN	29	20	17	20	14	20	20	47	323	33	23	19
AC-FT	5230	2970	1830	1610	1290	2480	3990	18220	38940	11620	3850	5800

CAL YR 1984	TOTAL	25572	MEAN	69.9	MAX	770	MIN	14	AC-FT	50720
WTR YR 1985	TOTAL	49328	MEAN	135	MAX	1330	MIN	14	AC-FT	97840

09344000 NAVAJO RIVER AT BANDED PEAK RANCH, NEAR CHROMO, CO

LOCATION.--Lat 37°05'07", long 106°41'20", in NW¼ sec.24, T.33 N., R.2 E., Archuleta County, Hydrologic Unit 14080101, on left bank at downstream side of private bridge on Banded Peak Ranch, 0.5 mi downstream from Aspen Creek, 4.0 mi downstream from East Fork, and 9 mi northeast of Chromo.

DRAINAGE AREA.--69.8 mi^2.

PERIOD OF RECORD.--October 1936 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 7,940.6 ft above National Geodetic Vertical Datum of 1929 (river-profile survey). Prior to Oct. 1, 1949, at datum 3.00 ft, higher.

REMARKS.--Estiamted daily discharges: Nov. 19-23, 27-28, Nov. 30-Dec. 1, Dec. 2, 6, 21-25, Dec. 30 to Jan. 4, Jan. 5, 11-21, Jan. 29 to Feb. 8, Feb. 11-16, 19, 24, 25, 27, Mar. 1, 4, 5, 23, 30-31, Apr. 5-15. Records good except for estimated daily discharges, which are fair. Diversions for irrigation of about 430 acres above station.

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

AVERAGE DISCHARGE.--49 years, 109 ft^3/s; 78,970 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,480 ft^3/s, June 9, 1980, gage height, 4.55 ft, from rating curve extended above 840 ft^3/s, on basis of float-area measurement at gage height 4.44 ft; maximum gage height, 7.02 ft, May 13, 1941, present datum; minimum daily discharge, 8.4 ft^3/s, Sept. 29, 1960, result of temporary blockage by channel alteration upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 8	2200	*1,270	*3.48	No other peak greater than base discharge.			

Minimum daily, 26 ft^3/s, Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	91	48	48	36	43	62	292	494	386	151	58
2	101	95	47	44	34	44	75	338	552	372	278	58
3	94	99	48	44	36	42	98	424	570	362	196	57
4	110	95	49	46	38	41	113	580	525	353	171	58
5	116	93	50	47	34	40	123	708	452	353	153	56
6	103	91	50	44	26	42	200	686	507	329	140	53
7	88	85	50	43	36	40	260	680	715	308	132	53
8	83	80	52	46	37	41	300	715	969	290	116	53
9	79	75	53	45	37	42	350	708	1080	285	111	51
10	76	68	49	43	38	52	360	686	976	298	106	50
11	72	67	52	42	34	93	380	561	900	288	107	72
12	88	70	50	41	36	80	400	444	790	268	100	80
13	100	72	50	41	38	66	450	382	836	272	89	58
14	102	70	50	42	38	66	480	332	836	260	84	55
15	91	68	49	42	40	64	525	320	874	248	82	68
16	85	66	44	40	42	61	548	329	874	230	78	77
17	86	66	44	40	42	60	525	332	784	212	72	62
18	89	65	44	40	42	61	552	359	708	216	71	100
19	83	62	45	41	40	62	472	386	730	194	70	128
20	83	58	44	42	42	59	350	362	742	178	70	127
21	80	56	40	42	42	59	300	362	772	184	70	124
22	78	58	38	42	42	59	260	362	708	171	67	118
23	78	58	38	42	42	57	240	424	692	169	65	104
24	77	59	38	42	40	64	240	456	702	154	62	94
25	77	54	38	41	42	75	240	507	848	147	61	88
26	79	53	39	42	42	78	218	585	670	135	61	84
27	83	48	56	42	40	69	214	697	534	129	58	80
28	78	46	79	42	43	61	223	715	468	156	58	89
29	80	48	64	41	---	61	250	658	440	221	57	100
30	88	50	54	40	---	58	275	590	416	192	57	88
31	90	---	50	38	---	56	---	530	---	160	57	---
TOTAL	2667	2066	1502	1315	1079	1796	9083	15510	21164	7520	3050	2343
MEAN	86.0	68.9	48.5	42.4	38.5	57.9	303	500	705	243	98.4	78.1
MAX	116	99	79	48	43	93	552	715	1080	386	278	128
MIN	50	46	38	38	26	40	62	292	416	129	57	50
AC-FT	5290	4100	2980	2610	2140	3560	18020	30760	41980	14920	6050	4650

CAL YR 1984	TOTAL	53277	MEAN	146	MAX	1080	MIN	36	AC-FT	105700
WTR YR 1985	TOTAL	69095	MEAN	189	MAX	1080	MIN	26	AC-FT	137000

09344400 NAVAJO RIVER BELOW OSO DIVERSION DAM, NEAR CHROMO, CO

LOCATION.--Lat 37°01'48", long 106°44'16", in NE¼ sec.9, T.32 N., R.2 E., Archuleta County, Hydrologic Unit 14080101, on left bank 600 ft downstream from Oso Diversion Dam, 5.5 mi east of Chromo, and 6 mi upstream from Little Navajo River.

DRAINAGE AREA.--100.5 mi².

PERIOD OF RECORD.--March 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7,647.71 ft above National Geodetic Vertical Datum of 1929 (levels by U. S. Bureau of Reclamation).

REMARKS.--Estimated daily discharges: June 17-18. Flows controlled by diversion dam upstream.

AVERAGE DISCHARGE.--14 years, 65.3 ft³/s; 47,310 acre-ft/yr.

COOPERATION.--Records collected by U.S. Bureau of Reclamation, computed by Colorado Division of Water Resources, and reviewed by Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,330 ft³/s, May 24, 1984, gage height, 4.92 ft; minimum daily, 10 ft³/s, Oct. 10, 11, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,290 ft³/s at 2200 June 8, gage height, 4.91 ft; minimum daily, 26 ft³/s, Feb. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	98	52	60	40	49	64	87	455	382	159	57
2	107	102	52	50	36	52	37	87	480	354	350	58
3	102	105	53	50	40	50	38	122	505	342	242	56
4	127	101	54	54	44	48	40	271	465	334	202	54
5	132	98	53	55	36	46	40	383	435	334	169	51
6	121	96	52	55	30	48	40	415	450	307	148	46
7	100	90	53	58	26	47	51	263	720	283	133	48
8	94	88	54	57	48	46	39	250	1040	265	121	49
9	88	82	54	57	47	54	40	313	1160	259	103	45
10	84	70	52	55	47	94	34	374	1140	271	84	44
11	79	72	54	52	39	238	41	277	1040	262	93	66
12	90	75	53	48	44	226	51	86	932	230	86	107
13	105	79	53	48	45	144	101	89	916	240	79	58
14	110	78	51	50	45	124	153	90	884	228	83	53
15	101	73	51	50	46	116	182	97	908	225	81	66
16	90	72	49	48	51	110	217	120	932	219	78	98
17	88	73	48	48	53	107	286	196	797	198	74	71
18	98	71	46	48	54	114	185	289	734	207	73	108
19	92	67	48	50	51	114	123	289	755	185	72	212
20	90	63	47	52	52	105	49	289	755	171	70	182
21	90	59	46	52	51	110	49	292	741	174	70	191
22	86	61	45	52	49	109	50	289	714	158	63	165
23	84	62	45	52	48	101	49	289	708	122	63	128
24	84	63	45	50	44	119	48	289	690	76	61	101
25	82	59	45	49	46	145	48	292	839	58	58	90
26	84	55	47	49	46	149	48	298	630	69	58	83
27	90	50	61	51	45	123	47	295	495	85	57	76
28	84	49	105	50	48	108	47	318	450	126	56	89
29	84	54	81	49	---	101	48	480	430	238	55	118
30	92	56	67	48	---	94	68	525	400	221	54	80
31	98	---	63	44	---	90	---	480	---	174	53	---
TOTAL	2905	2221	1679	1591	1251	3181	2313	8234	21600	6797	3148	2650
MEAN	93.7	74.0	54.2	51.3	44.7	103	77.1	266	720	219	102	88.3
MAX	132	105	105	60	54	238	286	525	1160	382	350	212
MIN	49	49	45	44	26	46	34	86	400	58	53	44
AC-FT	5760	4410	3330	3160	2480	6310	4590	16330	42840	13480	6240	5260

CAL YR 1984	TOTAL	31514	MEAN	86.1	MAX	677	MIN	38	AC-FT	62510
WTR YR 1985	TOTAL	57570	MEAN	158	MAX	1160	MIN	26	AC-FT	114200

09345200 LITTLE NAVAJO RIVER BELOW LITTLE OSO DIVERSION DAM, NEAR CHROMO, CO

LOCATION.--Lat 37°04'32", long 106°48'38", in SW¼ sec.23, T.33 N., R.1 E., Archuleta County, Hydrologic Unit 14080101, on right bank at Little Oso Diversion Dam, 3.5 mi northeast of Chromo, and 4.0 mi upstream from confluence with Navajo River.

DRAINAGE AREA.--14.2 mi^2.

PERIOD OF RECORD.--June 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7,756.10 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Flows controlled by diversion dam upstream.

AVERAGE DISCHARGE.--13 years, 6.95 ft^3/s; 5,040 acre-ft/yr; 14 years, 7.56 ft^3/s; 5,480 acre-ft/yr.

COOPERATION.--Records collected and computed by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 235 ft^3/s, May 30, 1979; no flow Apr. 14, 1974.

EXTREMES FOR WATER YEAR 1984.--Maximum discharge, about 55 ft^3/s; Apr. 12, minimum daily, 0.02 ft^3/s, many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 76 ft^3/s, Mar. 11, gage height, 1.67 ft; minimum daily, 2.4 ft^3/s Sept 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	3.0	2.0	2.9	3.1	3.0	7.6	39	28	6.7	.02	5.8
2	21	2.8	3.0	2.9	3.0	3.3	6.1	41	26	5.6	.02	4.3
3	13	2.8	3.0	2.9	3.1	3.8	6.0	27	25	2.6	.02	3.8
4	9.6	2.6	3.0	2.9	3.2	3.8	22	27	26	2.0	.02	3.8
5	8.4	2.8	3.0	3.1	3.3	3.5	41	28	26	1.6	.02	3.8
6	7.2	2.6	3.0	3.5	3.5	3.2	47	28	27	1.3	21	3.5
7	6.5	2.6	3.0	3.5	3.8	3.3	47	28	27	.98	8.4	3.1
8	6.3	2.9	3.0	3.5	3.5	3.5	50	28	26	.88	1.7	2.9
9	6.5	2.4	3.0	3.6	3.3	4.1	52	28	26	.79	.70	2.8
10	5.4	3.1	3.0	3.3	3.3	5.4	50	29	27	.38	.53	2.9
11	4.9	2.9	3.0	3.3	3.3	5.8	52	25	27	.31	.53	3.2
12	2.6	3.1	3.0	3.3	3.2	4.9	55	27	27	.14	.53	3.6
13	2.9	3.5	3.0	3.5	3.3	5.4	55	33	27	.46	.53	2.9
14	3.3	3.1	3.0	3.5	3.5	6.3	5.6	22	28	.19	3.9	2.5
15	3.3	1.9	3.0	3.5	3.2	7.2	5.6	23	28	.02	1.7	6.0
16	3.5	2.4	3.0	3.3	3.0	8.2	15	23	30	.02	1.7	9.4
17	3.6	2.6	3.0	3.3	3.3	8.6	28	24	27	.02	3.1	5.6
18	3.3	2.1	3.0	3.2	3.2	8.8	27	25	25	2.2	5.6	4.1
19	3.3	3.0	3.0	3.0	3.2	8.6	27	27	25	.46	4.4	4.4
20	3.2	3.2	3.0	3.0	3.8	9.0	27	28	18	.19	2.8	4.4
21	3.2	2.4	3.0	2.9	3.5	9.0	27	28	15	.02	2.6	4.1
22	3.0	3.2	3.0	2.9	3.3	9.0	27	32	13	.02	4.9	4.4
23	3.1	3.8	3.0	2.9	3.3	9.0	27	29	11	.02	11	3.9
24	2.9	3.2	3.0	2.8	3.3	8.8	28	34	11	.02	7.8	3.9
25	2.8	3.5	3.0	2.8	3.3	8.8	27	36	10	.02	11	3.9
26	2.8	3.5	3.0	2.8	3.2	8.8	27	28	10	.02	7.6	11
27	2.8	3.3	3.0	2.8	2.9	8.6	27	28	8.2	.02	5.4	11
28	2.8	3.2	3.0	2.8	3.0	8.2	27	28	7.8	.02	4.4	7.2
29	2.8	3.2	3.0	2.9	3.1	8.8	27	27	8.2	.02	4.3	6.0
30	2.6	3.2	3.0	3.0	---	7.6	32	27	7.1	.02	4.9	5.4
31	2.8	---	3.0	3.2	---	7.4	---	29	---	.02	5.9	---
TOTAL	195.4	87.9	92.0	96.8	95.0	203.7	901.9	886	627.3	27.06	127.02	143.6
MEAN	6.30	2.93	2.97	3.12	3.28	6.57	30.1	28.6	20.9	.87	4.10	4.79
MAX	46	3.8	3.0	3.6	3.8	9.0	55	41	30	6.7	21	11
MIN	2.6	1.9	2.0	2.8	2.9	3.0	5.6	22	7.1	.02	.02	2.5
AC-FT	388	174	182	192	188	404	1790	1760	1240	54	252	285

CAL YR 1983 TOTAL 3767.10 MEAN 10.3 MAX 49 MIN 1.9 AC-FT 7470
WTR YR 1984 TOTAL 3483.68 MEAN 9.52 MAX 55 MIN .02 AC-FT 6910

09345200 LITTLE NAVAJO RIVER BELOW LITTLE OSO DIVERSION DAM, NEAR CHROMO, CO--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	18	7.0	7.8	4.1	7.6	42	25	29	17	8.4	2.8
2	34	22	6.7	7.5	3.8	7.8	50	34	30	17	18	3.2
3	33	22	6.3	7.4	3.9	7.0	58	51	30	16	12	3.1
4	50	21	6.5	7.0	4.1	6.5	38	40	29	15	9.4	2.8
5	50	19	6.3	7.0	3.9	6.5	4.7	29	29	14	7.4	2.6
6	47	18	5.8	6.5	3.8	6.1	5.4	29	30	13	6.7	2.5
7	41	18	6.0	6.5	3.6	5.8	6.0	30	30	13	6.3	2.9
8	33	16	6.1	6.5	3.6	6.0	6.7	30	30	12	6.0	2.9
9	26	14	6.1	6.5	3.6	8.4	7.2	33	30	12	5.8	2.6
10	23	14	6.1	6.1	3.8	27	8.0	28	29	12	5.8	2.4
11	22	16	6.3	6.0	3.5	71	8.8	30	29	12	7.4	3.8
12	37	16	6.3	5.8	3.5	63	9.2	30	29	10	6.1	6.7
13	44	18	6.5	5.6	3.6	54	10	30	29	10	5.3	2.9
14	43	12	6.1	5.4	3.6	51	10	29	29	9.0	5.3	2.6
15	36	12	6.1	5.2	3.6	44	12	30	29	10	5.1	3.8
16	33	13	5.8	5.1	3.9	43	14	29	29	10	4.8	6.3
17	15	10	5.6	5.1	4.3	43	14	30	29	8.8	4.8	3.3
18	14	9.9	5.4	4.9	4.6	46	14	30	29	8.8	4.8	6.3
19	14	9.0	5.2	4.9	4.4	45	13	29	29	8.2	3.9	12
20	13	9.2	5.3	4.8	4.7	40	15	29	28	7.4	3.9	11
21	13	7.0	6.1	4.8	4.7	43	15	29	29	7.6	3.8	12
22	12	9.0	5.1	4.8	4.6	45	16	29	29	7.2	3.5	9.4
23	13	12	5.1	4.6	4.7	47	17	29	26	7.6	3.5	6.7
24	13	8.4	5.1	4.4	4.6	49	18	29	26	7.6	3.2	5.1
25	13	7.2	4.9	4.4	4.6	53	19	30	29	10	3.2	4.3
26	14	7.4	4.9	4.4	4.9	41	20	30	26	8.2	3.2	3.9
27	16	6.1	5.9	4.6	5.1	29	21	30	22	7.4	3.2	3.6
28	15	7.8	7.8	4.4	6.3	18	22	30	21	13	3.2	5.3
29	16	8.0	7.8	4.4	---	18	23	29	19	17	3.1	8.2
30	18	6.9	7.8	4.4	---	26	23	29	18	12	3.1	5.1
31	19	---	7.8	4.3	---	34	---	30	---	9.2	2.9	---
TOTAL	777.2	386.9	189.8	171.1	117.4	991.7	540.0	949	830	342.0	173.1	150.1
MEAN	25.1	12.9	6.12	5.52	4.19	32.0	18.0	30.6	27.7	11.0	5.58	5.00
MAX	50	22	7.8	7.8	6.3	71	58	51	30	17	18	12
MIN	7.2	6.1	4.9	4.3	3.5	5.8	4.7	25	18	7.2	2.9	2.4
AC-FT	1540	767	376	339	233	1970	1070	1880	1650	678	343	298

CAL YR 1984	TOTAL	4462.28	MEAN	12.2	MAX	55	MIN	.02	AC-FT	8850
WTR YR 1985	TOTAL	5618.3	MEAN	15.4	MAX	71	MIN	2.4	AC-FT	11140

09346000 NAVAJO RIVER AT EDITH, CO

LOCATION.--Lat 37°00'10", long 106°54'25", in NW¼NW¼ sec.24, T.32 N., R.1 W., Archuleta County, Hydrologic Unit 14080101, on right bank 290 ft downstream from highway bridge, 0.2 mi southeast of Edith, 0.5 mi upstream from Colorado-New Mexico State line, and 1.3 mi upstream from Coyote Creek.

DRAINAGE AREA.--172 mi^2.

PERIOD OF RECORD.--Streamflow records, September 1912 to current year. Monthly or yearly discharge only for some periods, published in WSP 1313. Water-quality data available, November 1970 to September 1974. Sediment data available April 1973 to September 1974.

REVISED RECORDS.--WSP 1243: 1943, 1945. WSP 1633: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 7,033.00 ft above National Geodetic Vertical Datum of 1929 (levels by U. S. Bureau of Reclamation). Prior to Jan. 1, 1929, nonrecording gage at site 240 ft upstream, at different datum. June 2, 1935, to June 27, 1941, water-stage recorder at sites 200 and 240 ft upstream, at datum 2.0 ft, higher. June 28, 1941, to June 20, 1961, at site 50 ft downstream at present datum.

REMARKS.--Estimated daily discharges: Feb. 9-19. Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 1,700 acres above station. High-water diversions above station into Heron Reservoir through Azotea tunnel began in March 1971. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--58 years (water years 1913-70), 155 ft^3/s; 112,300 acre-ft/yr, prior to diversions through Azotea tunnel: 15 years (water years 1971-85), 79.3 ft^3/s; 57,450 acre-ft/yr, subsequent to diversion through Azotea tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,840 ft^3/s, Apr. 23, 1942, gage height, 6.55 ft, from rating curve extended above 1,100 ft^3/s; minimum daily, 8.0 ft^3/s, Sept. 25, 1953, Aug. 7, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 5, 1911, exceeded all other observed floods at this location.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,440 ft^3/s at 0530, June 9, gage height, 5.47 ft; minimum daily, 29 ft^3/s, Feb. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	116	57	81	44	75	167	216	491	297	161	60
2	107	118	62	58	41	77	181	209	531	272	409	55
3	113	123	57	58	52	68	256	220	561	259	295	57
4	153	120	62	63	57	60	282	386	509	265	235	55
5	164	113	65	63	41	58	251	485	461	276	189	52
6	142	111	57	63	33	66	234	585	466	271	158	49
7	114	104	58	66	29	63	234	362	672	246	142	47
8	108	102	65	68	52	65	220	334	1120	225	130	50
9	98	98	65	66	55	86	209	408	1250	210	123	47
10	96	79	63	66	50	265	186	447	1160	237	116	46
11	92	82	66	65	44	680	178	293	974	246	120	63
12	100	86	65	55	48	726	174	170	823	207	111	113
13	118	90	65	55	48	326	198	174	789	216	90	66
14	125	90	63	57	48	259	284	167	757	213	90	63
15	118	82	65	57	50	231	315	164	787	202	86	81
16	104	81	62	55	55	223	326	181	835	209	81	110
17	118	79	58	55	60	220	433	245	687	186	75	82
18	144	79	58	55	65	234	309	348	582	195	75	109
19	112	72	58	58	60	227	274	345	596	181	73	239
20	111	65	62	60	68	193	159	340	604	160	66	196
21	108	63	52	60	63	216	198	345	588	164	66	213
22	102	70	44	63	58	216	229	335	563	154	60	186
23	100	72	44	60	60	189	196	330	550	129	60	146
24	100	72	47	58	55	237	192	320	515	93	55	121
25	98	72	47	58	57	318	168	320	680	69	58	108
26	100	62	63	55	58	295	145	320	522	68	58	102
27	113	49	72	58	58	228	133	310	395	81	57	96
28	104	50	190	57	68	209	159	339	338	201	52	106
29	102	63	129	54	---	199	244	510	316	266	55	132
30	113	57	95	50	---	168	227	610	310	258	54	111
31	118	---	81	46	---	164	---	551	---	193	55	---
TOTAL	3457	2520	2097	1843	1477	6641	6761	10369	19432	6249	3455	2961
MEAN	112	84.0	67.6	59.5	52.8	214	225	334	648	202	111	98.7
MAX	164	123	190	81	68	726	433	610	1250	297	409	239
MIN	62	49	44	46	29	58	133	164	310	68	52	46
AC-FT	6860	5000	4160	3660	2930	13170	13410	20570	38540	12390	6850	5870

CAL YR 1984	TOTAL	39831	MEAN	109	MAX	687	MIN	42	AC-FT	79000
WTR YR 1985	TOTAL	67262	MEAN	184	MAX	1250	MIN	29	AC-FT	133400

09346400 SAN JUAN RIVER NEAR CARRACAS, CO

LOCATION.--Lat 37°00'49", long 107°18'42", in SE¼SW¼ sec.17, T.32 N., R.4 W., Archuleta County, Hydrologic Unit 14080101, on right bank just upstream from flow line of Navajo Reservoir, 3 mi northwest of Carracas, 7.2 mi upstream from Piedra River, and at mile 332.8.

DRAINAGE AREA.--1,230 mi^2, approximately.

PERIOD OF RECORD.--Streamflow records, October 1961 to current year. Water-quality data available, July 1969 to August 1973. Sediment data available, August 1973.

GAGE.--Water-stage recorder and crest stage gage. Elevation of gage is 6,090 ft above National Geodetic Vertical Datum of 1929, from river-profile map.

REMARKS.--Estimated daily discharges: Nov. 27 to Dec. 17, Dec. 22 to Mar. 12. Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 11,000 acres above station. Highwater diversions above station into Rio Grande basin through Azotea tunnel (station 08284160) began in March 1971. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--9 years (water years 1962-70), 632 ft^3/s; 457,900 acre-ft/yr, prior to completion of Azotea tunnel: 15 years (water years 1971-85), 630 ft^3/s; 456,400 acre-ft/yr, since completion of Azotea tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,730 ft^3/s, Sept. 6, 1970, gage height, 8.34 ft, from rating curve extended aobve 6,000 ft^3/s, on basis of slope-area measurement of peak flow; minimum daily, above 5 ft^3/s, Dec. 10, 1961, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods occurred Sept. 5 or 6, 1909; Oct. 5, 1911; June 29, 1927.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 28	0400		*a9.55	May 6	0730	4,590	6.03
Mar. 12	----	*7,210	7.27	May 30	1000	4,210	5.80
Apr. 16	0700	4,120	5.69	June 9	0700	6,550	6.93
Apr. 29	0700	4,230	5.75				

a-Backwater from ice.
Minimum daily discharge, 140 ft^3/s, Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	235	524	270	290	160	270	1140	2080	3200	2180	760	185
2	332	529	280	220	140	290	1220	1960	3290	2000	1170	182
3	607	535	300	250	190	270	1470	2260	3540	1900	1240	189
4	833	524	300	260	190	240	1930	2870	3410	1850	1080	207
5	743	501	300	260	220	230	1950	3620	2890	1780	850	204
6	665	501	270	250	190	250	1900	3120	2880	1690	727	198
7	560	475	260	270	180	240	2060	3560	3740	1500	646	182
8	519	449	280	270	200	240	2300	3650	5060	1360	566	179
9	491	438	300	260	200	380	2630	3700	4810	1320	553	182
10	469	375	300	250	190	740	2670	3720	5710	1250	502	179
11	448	365	310	230	160	1400	2820	3210	5180	1240	483	185
12	473	397	300	210	200	6700	2790	2620	4950	1130	485	750
13	646	398	300	190	250	3180	2990	2320	5130	1100	414	442
14	657	402	300	190	210	2020	3250	1940	5070	1100	352	327
15	663	370	300	200	190	1610	3440	1780	4850	1020	342	361
16	560	356	290	200	200	2060	2860	1940	5140	1050	317	810
17	587	369	270	190	210	1780	3420	2010	4680	959	296	503
18	818	365	276	200	230	1690	3180	2270	4320	883	279	449
19	666	342	287	210	220	1930	2990	2380	4410	890	279	1340
20	566	317	308	210	240	1290	2290	2300	4210	804	271	1070
21	547	296	287	220	230	1350	2140	2230	4230	761	268	1310
22	519	291	170	220	220	1340	2530	2190	4120	757	256	1050
23	512	312	150	210	230	1110	2190	2410	3910	709	242	908
24	569	320	170	210	190	1180	2000	2480	3800	664	231	757
25	536	329	190	200	230	1410	1900	2750	4180	584	221	671
26	512	297	260	200	230	1760	1700	3020	3900	530	218	601
27	540	200	260	210	230	1300	1490	3500	3080	510	207	548
28	518	220	530	200	260	1210	1520	3650	2700	501	195	519
29	491	290	470	200	---	1290	2710	4010	2490	1210	195	666
30	501	270	380	190	---	1080	2490	4060	2280	1320	195	632
31	528	---	320	160	---	1050	---	3630	---	929	189	---
TOTAL	17311	11357	8988	6830	5790	40890	69970	87240	121160	35481	14029	15786
MEAN	558	379	290	220	207	1319	2332	2814	4039	1145	453	526
MAX	833	535	530	290	260	6700	3440	4060	5710	2180	1240	1340
MIN	235	200	150	160	140	230	1140	1780	2280	501	189	179
AC-FT	34340	22530	17830	13550	11480	81110	138800	173000	240300	70380	27830	31310

CAL YR 1984 TOTAL 268263 MEAN 733 MAX 5370 MIN 150 AC-FT 532100
WTR YR 1985 TOTAL 434832 MEAN 1191 MAX 6700 MIN 140 AC-FT 862500

09349800 PIEDRA RIVER NEAR ARBOLES, CO

LOCATION.--Lat 37°05'18", long 107°23'50", in NE¼SW¼ sec.21, T.33 N., R.5 W., Archuleta County, Hydrologic Unit 14080102, on left bank 3 mi downstream from Ignacio Creek, 5.2 mi northeast of Arboles Post Office, and 8 mi upstream from mouth.

DRAINAGE AREA.--629 mi².

PERIOD OF RECORD.--Streamflow records, August 1962 to current year. Gage operated 1895-99 and 1910-27 at site 7.5 mi downstream at altitude 6,000 ft. Low-flow records probably not equivalent. Water-quality data available, November to August 1973.

GAGE.--Water-stage recorder. Elevation of gage is 6,147.52 ft above National Geodetic Vertical Datum of 1929, Colorado State Highway Department benchmark.

REMARKS.--Estimated daily discharges: May 1-9, Aug. 11-14, Sept. 23-30. Records good except for estimated daily discharges, which are fair. Diversions for irrigation of about 2,800 acres above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--23 years, 397 ft³/s; 287,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,370 ft³/s, Sept. 6, 1970, gage height, 6.38 ft, recorded, 7.55 ft, from floodmarks, from rating curve extended above 4,400 ft³/s, on basis of slope-area measurement of peak flow; minimum discharge, 11 ft³/s, Dec. 9, 1963, Oct. 1, 1966.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods occurred Sept. 5 or 6, 1909, and Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s, and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar 12	0400	2,420	3.91	May 29	0700	2,430	3.87
Apr 19	0200	*3,180	*4.37	June 9	0600	2,720	4.07
Unknown	----	3,120	*4.37				

Minimum daily discharge, 88 ft³/s, Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	294	125	163	108	198	534	2500	1730	788	392	97
2	212	285	128	143	100	221	612	2600	1700	719	484	92
3	319	285	117	130	120	206	1050	2700	1780	698	810	101
4	442	269	123	146	120	162	1700	2700	1710	663	637	110
5	411	253	138	152	120	155	1970	2800	1540	663	530	106
6	376	253	120	152	120	173	2150	2800	1610	635	445	102
7	336	249	110	146	120	164	2290	2700	1950	590	386	94
8	309	241	120	143	120	155	2370	2700	2460	547	327	92
9	299	237	128	138	120	216	2360	2700	2580	517	308	92
10	277	196	133	135	110	578	2360	2660	2360	528	282	88
11	265	205	135	132	115	1310	2360	2300	2280	471	270	127
12	273	209	146	128	117	1700	2360	1960	2210	446	260	400
13	329	205	146	115	125	834	2490	1680	2140	421	250	242
14	335	202	146	120	125	673	2600	1420	2000	454	220	181
15	330	191	143	125	122	636	2740	1310	2010	401	201	180
16	278	188	134	128	120	717	2820	1440	2120	400	198	323
17	307	191	133	128	125	712	2680	1410	1970	395	187	227
18	312	195	128	127	143	698	2770	1390	1800	395	159	213
19	294	177	128	130	149	747	2770	1360	1790	401	155	1050
20	266	161	135	117	161	631	2080	1330	1670	341	143	735
21	261	158	135	122	168	669	1830	1270	1620	330	143	912
22	253	158	123	130	158	684	1900	1240	1500	384	143	799
23	249	164	108	130	167	555	1680	1290	1400	414	127	700
24	261	164	113	130	149	606	1470	1430	1340	381	115	540
25	253	170	128	130	146	776	1410	1650	1450	315	108	500
26	245	164	149	127	155	976	1390	1880	1360	294	103	400
27	261	134	218	127	152	800	1450	2070	1090	273	99	340
28	261	123	483	127	183	707	1430	2210	948	250	99	350
29	257	151	414	130	---	657	2710	2300	892	570	106	400
30	265	135	319	122	---	560	2380	2180	812	559	103	450
31	289	---	254	125	---	523	---	1950	---	475	101	---
TOTAL	8983	6007	5060	4098	3738	18399	60716	61930	51822	14718	7891	10043
MEAN	290	200	163	132	134	594	2024	1998	1727	475	255	335
MAX	442	294	483	163	183	1700	2820	2800	2580	788	810	1050
MIN	158	123	108	115	100	155	534	1240	812	250	99	88
AC-FT	17820	11910	10040	8130	7410	36490	120400	122800	102800	29190	15650	19920

CAL YR 1984 TOTAL 168232 MEAN 460 MAX 2640 MIN 99 AC-FT 333700
WTR YR 1985 TOTAL 253405 MEAN 694 MAX 2820 MIN 88 AC-FT 502600

09352900 VALLECITO CREEK NEAR BAYFIELD, CO
(Hydrologic bench-mark station)

LOCATION.--Lat 37°28'39", long 107°32'35", in NE¼NW¼ sec.16, T.37 N., R.6 W., La Plata County, Hydrologic Unit 14080101, on right bank 60 ft upstream from Fall Creek, 0.8 mi downstream from Bear Creek, 6.7 mi north of Vallecito Dam, and 18 mi north of Bayfield.

DRAINAGE AREA.--72.1 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 7,906.80 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Nov. 27-29, Dec. 1-4, 15-20, 23-26, Jan. 2-6, 14-15, 18, 30-31, Feb. 1-5, 8-12, 14, 25, Mar. 4, May 9. Records good except for estimated daily discharges, which are poor. No diversion above station.

AVERAGE DISCHARGE.--23 years, 146 ft^3/s; 105,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,050 ft^3/s, Sept. 6, 1970, gage height, 5.51 ft, from water-stage recorder, 6.76 ft, from floodmarks, from rating curve extended above 1,400 ft^3/s, on basis of slope-area measurement of peak flow; minimum daily, 6.7 ft^3/s, Dec. 28, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods occurred in October 1911 and June 1927.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 14	2200	1,110	2.93	May 24	2330	*1,360	*3.17

Minimum daily discharge, 18 ft^3/s, Jan. 23-24, Feb. 27-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	98	44	31	24	29	57	269	507	368	188	56
2	159	94	44	34	22	32	58	295	567	380	206	59
3	180	98	44	34	24	29	68	423	693	386	196	76
4	196	96	44	34	24	30	77	589	680	392	173	76
5	196	94	45	34	24	29	79	647	743	381	157	74
6	184	94	46	36	24	30	98	609	983	357	147	65
7	180	90	42	37	23	29	122	655	1250	315	138	63
8	172	88	41	37	22	28	143	711	1290	291	130	69
9	172	84	42	36	22	29	160	680	1120	289	127	65
10	160	79	43	36	24	33	176	650	1010	285	122	59
11	153	79	43	35	24	36	203	523	971	319	130	147
12	160	77	42	35	24	38	228	406	961	291	127	238
13	164	77	39	32	26	36	269	345	926	366	114	148
14	176	77	45	30	26	34	319	291	890	301	104	120
15	145	71	42	30	26	36	385	302	933	266	98	208
16	130	71	42	31	29	35	405	349	916	241	89	247
17	130	72	42	31	28	36	369	332	834	236	82	185
18	134	69	40	30	28	37	362	320	824	284	80	299
19	124	63	40	32	27	38	315	320	785	298	82	688
20	122	61	40	32	29	38	246	297	737	251	74	387
21	114	61	40	32	29	38	217	290	760	245	84	351
22	112	61	36	32	28	38	189	280	721	313	77	338
23	109	60	30	32	28	38	165	307	650	286	72	291
24	107	61	28	32	27	42	153	456	632	237	68	256
25	104	58	30	31	26	51	149	605	679	213	66	229
26	102	52	34	32	29	56	147	718	484	228	62	205
27	104	36	40	31	28	51	137	816	411	220	59	192
28	100	38	46	31	29	41	140	876	417	219	59	192
29	98	42	45	31	---	34	153	856	398	274	59	196
30	100	45	42	28	---	53	199	746	365	229	57	176
31	100	---	41	26	---	62	---	642	---	205	56	---
TOTAL	4314	2146	1262	1005	724	1166	5788	15605	23137	8966	3283	5755
MEAN	139	71.5	40.7	32.4	25.9	37.6	193	503	771	289	106	192
MAX	196	98	46	37	29	62	405	876	1290	392	206	688
MIN	98	36	28	26	22	28	57	269	365	205	56	56
AC-FT	8560	4260	2500	1990	1440	2310	11480	30950	45890	17780	6510	11420

CAL YR 1984	TOTAL	67599	MEAN	185	MAX	1170	MIN	18	AC-FT	134100
WTR YR 1985	TOTAL	73151	MEAN	200	MAX	1290	MIN	22	AC-FT	145100

09352900 VALLECITO CREEK NEAR BAYFIELD, CO--Continued
(Hydrologic Bench-Mark Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1968; October 1969 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1962 to September 1982.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: (Water years 1963-82) Maximum, 20.0°C July 10, 1974; minimum, 0.0°C on many days during winter months each year

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	TUR-BID-ITY (NTU)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV										
05...	1000	86	89	6.2	.5	10.8	12	--	--	34
JAN										
15...	1230	27	78	6.8	.0	10.7	.40	K1	K8	44
JUN										
26...	1030	459	46	6.3	5.0	9.2	1.4	K1	K17	19
AUG										
20...	1100	71	48	7.0	8.0	9.3	1.2	K1	K200	22

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
NOV										
05...	10	2.1	.90	.0	.50	24	6.7	.30	.20	3.9
JAN										
15...	13	2.7	1.3	.0	.70	32	8.6	.30	.20	4.5
JUN										
26...	5.9	1.1	.60	.0	.60	12	4.4	1.1	.20	2.5
AUG										
20...	6.7	1.3	.70	.0	.60	17	5.5	.20	.30	2.9

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV										
05...	47	39	.06	11	<.10	<.010	.40	<.010	.010	<.010
JAN										
15...	60	51	.08	4.4	.17	.010	.20	<.010	<.010	<.010
JUN										
26...	21	24	.03	26	<.10	.040	.20	.030	<.010	<.010
AUG										
20...	40	30	.05	7.7	<.10	.070	.50	.010	.020	<.010

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV											
05...	1000	40	<1	14	<.0	<1	<1	<3	<1	11	3
JUN											
26...	1030	40	<1	6	<.5	<1	<1	<3	4	14	2

K BASED ON NON-IDEAL COLONY COUNT

09352900 VALLECITO CREEK NEAR BAYFIELD, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV 05...	<4	4	<.1	<10	<1	<1	<1	30	<6	30
JUN 26...	<4	6	<.1	<10	<1	<1	<1	14	<6	11

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)
JUN 26...	1030	<.6	<.4	.8	<.4	.7	<.4	.07	.27

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN 15...	1230	27	8	.58	--
JUN 26...	1030	459	5	6.2	42
AUG 20...	1100	71	2	.38	29

09353000 VALLECITO RESERVOIR NEAR BAYFIELD, CO

LOCATION.--Lat 37°23'00", long 107°34'30", in SW¼SW¼ sec.18, T.36 N., R.6 W., La Plata County, Hydrologic Unit 14080101, in gatehouse above outlet gates at Vallecito Dam on Los Pinos (Pine) River, 300 ft left of spillway, 0.4 mi upstream from Jack Creek, and 11 mi northeast of Bayfield.

PERIOD OF RECORD.--April 1941 to current year.

REVISED RECORDS.--WSP 959: 1941. WSP 1513: 1956.

GAGE.--Water-stage recorder. Elevation of gage is 7,580 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations above National Geodetic Vertical Datum.

REMARKS.--Reservoir is formed by earth and rockfill dam; dam completed in March 1941. Capacity of reservoir, 126,300 acre-ft between elevations 7,580 ft, sill of outlet gate, and 7,665 ft, top of spillway gates. Dead storage, 3,395 acre-ft. Figures given are usable contents. Reservoir is used to store water for irrigation in Los Pinos (Pine) River basin.

COOPERATION.--Records provided by Pine River Irrigation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 128,200 acre-ft, July 27, 1957, elevation, 7,665.72 ft; minimum, 1,520 acre-ft, Oct. 24, 25, 1944, elevation, 7,584.10 ft. No usable storage prior to April 1941.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 124,040 acre-ft, June 16, elevation, 7,664.41 ft; minimum, 46,400 acre-ft, Jan. 15, elevation, 7,630.82 ft.

MONTHEND ELEVATION IN FEET NGVD AND CONTENTS, AT 0900, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	7,641.10	67,450	-10,240
Oct. 31	7,638.92	62,820	-4,630
Nov. 30	7,635.36	55,600	-7,220
Dec. 31	7,632.78	50,650	-4,950
CAL YR 1984			-17,340
Jan. 31	7,631.91	48,380	-2,270
Feb. 29	7,633.48	51,320	+2,940
Mar. 31	7,636.76	57,740	+6,420
Apr. 30	7,643.46	72,000	+14,260
May 31	7,657.44	105,650	+33,650
June 30	7,663.77	122,300	+16,650
July 31	7,662.27	118,270	-4,030
Aug. 31	7,651.32	90,350	-27,920
Sept. 30	7,645.68	77,010	-13,340
WTR YR 1985			+9,560

09353500 LOS PINOS RIVER NEAR BAYFIELD, CO
(LOCALLY KNOWN AS PINE RIVER)

LOCATION.--Lat 37°22'58", long 107°34'37", in SW¼ sec.18, T.36 N., R.6 W., La Plata County, Hydrologic Unit 14080101, on left side of outlet flume from Vallecito Reservoir, 0.4 mi upstream from Jack Creek, 2.0 mi upstream from Red Creek, and 11 mi north of Bayfield.

DRAINAGE AREA.--270 mi^2, approximately.

PERIOD OF RECORD.--October 1927 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder and concrete weir. Datum of gage is 7,582.54 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation). See WSP 1713 or 1733 for history of changes prior to Aug. 18, 1956.

REMARKS.--No estimated daily discharge. Records good. Flow regulated by Vallecito Reservoir (station 09353000) since April 1941. Transmountain diversions above station by Weminuche Pass and Pine River-Weminuche Pass ditches.

COOPERATION.--Gage-height record is provided by Pine River Irrigation District.

AVERAGE DISCHARGE.--13 years (water years 1928-40), 345 ft^3/s; 250,000 acre-ft/yr, prior to completion of Vallecito Reservoir: 45 years (water years 1941-85), 362 ft^3/s; 262,300 acre-ft/yr, subsequent to completion of Vallecito Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,800 ft^3/s, July 27, 1957; gage height, 12.2 ft, from floodmarks at supplementary gage, from rating curve extended above 2,500 ft^3/s, on basis of slope-area measurement of peak flow (result of automatic spillway gates releasing from Vallecito Reservoir); no flow Apr. 15-25, 1982, Mar. 25-26, 1986 (result of no release from Vallecito Reservoir when concrete spillway was being repaired); minimum daily prior to construction of Vallecito Reservoir, 38 ft^3/s, Dec. 21, 22, 1937.

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since at least 1885 occurred Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,610 ft^3/s at 0800 June 16, gage height, 4.73 ft; no flow Mar. 25-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	465	478	104	240	44	44	47	748	1550	896	742	695
2	433	478	158	240	44	44	47	748	1550	841	742	695
3	405	478	158	240	44	44	47	748	1550	896	742	695
4	414	474	158	240	44	44	47	792	1550	896	742	689
5	404	474	158	240	44	44	47	883	1560	896	737	689
6	385	474	210	237	44	44	47	1130	1570	896	731	689
7	393	474	244	237	44	44	47	1200	1580	896	726	689
8	393	474	244	237	44	44	83	1200	1800	803	720	684
9	393	474	244	237	44	44	103	1320	2030	742	750	679
10	393	469	244	237	44	44	71	1380	2100	742	769	582
11	393	469	244	237	44	44	59	1380	2350	742	764	615
12	393	469	244	237	44	44	326	1380	2520	742	758	679
13	393	411	244	237	44	44	401	1380	2510	742	753	679
14	393	293	244	237	44	38	401	1380	2550	742	748	674
15	393	240	244	128	44	8.4	401	1380	2560	742	742	674
16	393	240	244	44	44	27	611	1210	2560	742	737	669
17	393	240	240	44	44	27	748	1050	2530	742	737	635
18	490	240	240	44	44	27	748	956	2350	742	731	613
19	540	240	240	44	44	27	748	920	2230	742	731	613
20	540	240	240	44	44	27	748	803	2120	742	731	613
21	540	203	240	44	44	27	748	726	1950	742	690	613
22	540	179	240	44	44	27	748	661	1890	742	710	613
23	540	179	240	44	44	27	748	618	1890	742	710	613
24	540	179	240	44	44	23	748	566	1760	742	710	613
25	540	179	240	44	44	.00	748	532	1680	742	710	613
26	535	179	240	44	44	.00	748	532	1680	742	710	613
27	258	84	240	44	44	26	748	634	1370	742	705	613
28	337	22	240	44	44	47	748	932	1090	742	705	613
29	439	22	240	44	---	47	748	1300	1040	742	700	613
30	468	22	240	44	---	47	748	1480	953	742	700	613
31	478	---	240	44	---	47	---	1550	---	742	695	---
TOTAL	13614	9077	6986	4165	1232	1071.40	13257	31519	56423	24086	22578	19380
MEAN	439	303	225	134	44.0	34.6	442	1017	1881	777	728	646
MAX	540	478	244	240	44	47	748	1550	2560	896	769	695
MIN	258	22	104	44	44	.00	47	532	953	742	690	582
AC-FT	27000	18000	13860	8260	2440	2130	26300	62520	111900	47770	44780	38440

CAL YR 1984 TOTAL 172682 MEAN 472 MAX 1690 MIN 22 AC-FT 342500
WTR YR 1985 TOTAL 203388.40 MEAN 557 MAX 2560 MIN .00 AC-FT 403400

09354500 LOS PINOS RIVER AT LA BOCA, CO

LOCATION.--Lat 37°00'34", long 107°35'56", in NE¼NW¼ sec.22, T.32 N., R.7 W., La Plata County, Hydrologic Unit 14080101, on downstream end of right abutment of the Denver & Rio Grande Western Railroad Co. bridge, at southeast edge of La Boca, 0.1 mi upstream from Spring Creek, and 13 mi upstream from mouth.

DRAINAGE AREA.--510 mi^2, approximately.

PERIOD OF RECORD.--Streamflow records, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733. Water-quality data available, July 1969 to August 1973.

GAGE.--Water-stage recorder. Elevation of gage is 6,143.58 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Feb. 1-13. Records good except for estimated daily discharges, which are fair. Flow regulated by Vallecito Reservoir (station 09353000) 24 mi upstream since April 1941. Diversions for irrigation of about 33,000 acres above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--35 years, 229 ft^3/s; 165,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,400 ft^3/s, July 27, 1957, gage height, 8.95 ft, from rating curve extended above 5,100 ft^3/s; minimum daily, 6.1, ft^3/s May 1, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred Oct. 5, 1911, at this location.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,190 ft^3/s at 0900 June 12, gage height, 6.52 ft; minimum daily, 65 ft^3/s, Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	202	496	70	307	65	125	206	1130	1210	409	347	178
2	249	496	135	286	75	136	226	1080	1180	361	360	178
3	274	490	180	286	95	120	289	1070	1170	350	384	190
4	348	490	181	282	95	98	378	1110	1170	355	375	198
5	287	484	184	282	100	95	411	1180	1170	338	339	214
6	286	484	190	278	100	105	471	1320	1170	334	338	198
7	231	478	261	282	110	93	519	1460	1160	342	318	202
8	218	478	286	286	100	98	555	1430	1270	315	302	210
9	222	478	302	282	100	129	615	1440	1510	224	298	210
10	218	478	294	282	95	297	604	1530	1630	210	298	214
11	214	490	306	282	95	733	498	1480	1740	190	306	238
12	253	490	310	274	95	1260	649	1460	2130	169	330	408
13	270	467	310	270	95	469	824	1450	2080	175	303	300
14	250	362	298	266	100	317	836	1370	2080	169	298	278
15	266	276	306	262	100	275	836	1320	2080	172	294	349
16	297	270	294	108	129	394	907	1190	2060	184	259	428
17	329	276	290	85	151	451	1100	922	2050	181	242	357
18	463	290	286	85	177	313	1120	814	2000	194	246	384
19	584	286	282	85	175	454	1150	710	1790	214	246	558
20	598	278	286	83	172	424	1060	636	1690	238	242	474
21	598	270	278	90	169	328	1040	487	1480	242	242	484
22	580	243	270	90	137	271	1080	466	1340	297	215	443
23	598	234	274	95	154	219	1040	349	1350	310	188	430
24	627	250	270	98	121	222	1020	291	1300	247	184	412
25	610	262	274	103	105	249	1030	189	1230	238	181	412
26	581	246	274	98	105	258	1030	172	1180	250	175	406
27	468	230	387	93	103	227	1070	169	1050	238	169	400
28	231	218	828	83	117	242	1040	288	731	273	178	418
29	466	105	585	88	---	254	1620	777	607	368	178	430
30	490	69	404	76	---	219	1290	1030	539	375	172	412
31	496	---	339	66	---	202	---	1200	---	385	175	---
TOTAL	11804	10464	9234	5633	3235	9077	24514	29520	43147	8347	8182	10013
MEAN	381	349	298	182	116	293	817	952	1438	269	264	334
MAX	627	496	828	307	177	1260	1620	1530	2130	409	384	558
MIN	202	69	70	66	65	93	206	169	539	169	169	178
AC-FT	23410	20760	18320	11170	6420	18000	48620	58550	85580	16560	16230	19860

CAL YR 1984	TOTAL	130490	MEAN	357	MAX	1280	MIN	46	AC-FT	258800
WTR YR 1985	TOTAL	173170	MEAN	474	MAX	2130	MIN	65	AC-FT	343500

09355000 SPRING CREEK AT LA BOCA, CO

LOCATION.--Lat 37°00'40", long 107°35'47", in SE¼SW¼ sec.15, T.32 N., R.7 W., La Plata County, Hydrologic Unit 14080101, on right bank in an excavated channel, 0.2 mi upstream from mouth, and 0.2 mi east of La Boca.

DRAINAGE AREA.--58 mi^2, approximately.

PERIOD OF RECORD.--Streamflow records, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733. Water-quality data available, May 1974.

GAGE.--Water-stage recorder. Elevation of gage is 6,160 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 27-29, Nov. 26-30, Dec. 1-9, 22-25, Jan. 1-7, 9, 12-22, 31, Feb. 1-17, Mar. 4-5, 12-15, 22-31, Apr. 1-3, 10-11, May 4-5. Records good except for estimated daily discharges, which are poor. Part of flow is return waste from irrigation. Nearly all irrigation in this basin is water diverted for Los Pinos River near Bayfield which causes a considerable change in the annual pattern and natural flow. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--35 years, 31.4 ft^3/s; 22,750 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,980 ft^3/s, Sept. 6, 1970, gage height, 4.62 ft, from rating curve extended above 160 ft^3/s, on basis of field estimate of peak flow; maximum gage height, 5.98 ft, Mar. 9, 1960 (backwater from ice); minimum daily discharge, 0.6 ft^3/s, Nov. 27, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharges, 710 ft^3/s, Mar. 12, gage height, 2.78 ft; minimum daily, 3.6 ft^3/s, Jan. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	6.9	6.5	8.5	4.2	6.9	24	30	59	71	86	82
2	107	6.5	6.5	8.5	5.0	6.9	22	23	59	74	110	84
3	115	6.5	6.5	8.5	5.0	6.5	22	37	60	74	94	86
4	101	6.5	7.0	8.5	5.0	6.5	22	30	55	72	88	86
5	78	6.1	7.0	9.0	5.5	5.5	24	20	55	72	82	86
6	72	6.5	7.5	10	5.5	4.8	23	9.0	55	71	78	82
7	54	6.5	7.5	9.0	5.0	4.4	23	8.5	59	71	74	84
8	50	6.5	8.0	8.0	4.8	3.9	23	26	62	74	74	86
9	52	6.9	8.0	7.5	4.8	7.3	23	22	62	76	76	84
10	52	5.7	7.9	6.9	4.8	45	20	24	60	80	78	84
11	54	6.5	11	7.4	5.5	148	18	29	59	72	82	112
12	62	6.1	17	6.5	6.0	170	16	29	54	72	82	128
13	59	5.7	17	6.5	7.5	70	14	29	60	71	74	91
14	55	6.1	17	6.5	13	40	12	27	62	72	76	92
15	50	5.7	29	6.5	18	25	11	29	60	74	78	140
16	37	5.7	15	7.0	19	63	9.2	33	64	72	76	120
17	47	6.1	9.3	7.5	17	56	8.5	39	69	72	74	85
18	109	7.4	9.2	8.0	11	30	9.2	37	69	84	80	113
19	48	7.4	8.5	10	11	106	11	37	67	78	82	106
20	22	6.5	7.4	9.5	12	59	8.6	48	62	84	80	92
21	14	5.7	6.5	8.0	11	34	9.2	52	64	90	82	80
22	14	5.7	5.0	6.5	8.6	20	19	54	64	102	80	62
23	12	5.7	5.0	6.2	13	17	19	48	64	90	78	59
24	24	6.9	5.0	6.5	9.3	15	14	50	66	84	80	54
25	18	9.2	9.0	6.9	6.9	15	12	54	72	80	80	54
26	11	7.0	21	6.1	5.7	15	12	54	69	80	80	57
27	9.0	7.0	117	6.1	5.7	17	24	54	69	78	80	59
28	8.0	6.5	173	6.1	6.1	20	18	52	71	90	80	62
29	7.5	6.0	47	5.7	---	24	235	67	71	123	82	62
30	7.2	6.0	21	4.4	---	26	60	62	72	122	80	57
31	7.4	---	11	3.6	---	26	---	60	---	99	80	---
TOTAL	1428.1	193.5	633.3	225.9	235.9	1093.7	765.7	1173.5	1894	2524	2506	2529
MEAN	46.1	6.45	20.4	7.29	8.42	35.3	25.5	37.9	63.1	81.4	80.8	84.3
MAX	115	9.2	173	10	19	170	235	67	72	123	110	140
MIN	7.2	5.7	5.0	3.6	4.2	3.9	8.5	8.5	54	71	74	54

CAL YR 1984	TOTAL	14217.1	MEAN	38.8	MAX	360	MIN	4.4
WTR YR 1985	TOTAL	15202.6	MEAN	41.7	MAX	235	MIN	3.6

09361500 ANIMAS RIVER AT DURANGO, CO

LOCATION.--Lat 37°16'45", long 107°52'47", in SW¼SW¼ sec.20, T.35 N., R.9 W., La Plata County, Hydrologic Unit 14080104, on left bank at Western Colorado Power Co.'s plant at Durango, 0.8 mi upstream from Lightner Creek.

DRAINAGE AREA.--692 mi².

PERIOD OF RECORD.--June to December 1895, April 1896 to December 1898, April 1899 to December 1900, March to May 1901, April to November 1902, March to April 1903 (gage heights only, erroneously stated as discredited in WSP 1563), May to October 1903, July 1904 to December 1905, January to December 1910 (gage heights only), January to September 1911, January 1912 to current year. Monthly or yearly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 764: Drainage area. WSP 929: 1927(M). WSP 1243: 1911, 1918(M). WSP 1563: 1911-25 (monthly figures only).

GAGE.--Water-stage recorder. Datum of gage is 6,501.57 ft above National Geodetic Vertical Datum of 1929. See WSP 1713 or 1733 for history of changes prior to Mar. 2, 1921.

REMARKS.--Estimated daily discharges: Oct. 26 to Nov. 3 and Feb. 1-7. Records good except for estimated daily discharges, which are fair. Diversions for irrigation of about 4,000 acres above station. Natural regulation by many lakes and regulation for power above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--80 years (water years 1897-1900, 1905, 1911-85), 845 ft³/s; 612,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft³/s, Oct. 5, 1911, gage height, 11 ft, present site and datum, from rating curve extended above 13,000 ft³/s; minimum daily, 94 ft³/s, Mar. 2, 1913.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1885, that of Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s, and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 8	0800	4,920	5.95	June 9	1330	*7,950	*7.38
May 29	0800	5,020	6.05				

Minimum daily discharge, 180 ft³/s, Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	429	480	275	252	200	258	530	2200	3220	2110	1060	320
2	559	470	280	227	180	314	535	2220	3210	2140	1110	300
3	601	464	266	234	220	315	644	2900	3750	2160	1190	325
4	680	474	270	234	220	305	885	3910	3580	2160	1060	361
5	700	458	270	238	220	271	959	4480	3610	2140	943	374
6	720	442	250	246	230	309	1170	4500	4520	2080	866	374
7	656	423	246	250	220	300	1480	4360	5690	1900	811	374
8	646	415	258	278	219	271	1780	4620	6510	1720	771	400
9	646	408	262	270	227	318	1880	4580	7250	1700	741	375
10	646	381	270	247	227	379	1870	4360	6750	1730	683	374
11	681	374	285	238	206	407	2140	3710	6220	1790	691	374
12	664	374	270	230	206	496	2230	2960	5620	1680	759	693
13	690	368	270	242	218	490	2520	2470	5230	1750	645	596
14	673	368	285	230	218	482	2710	2130	5040	1750	587	492
15	638	350	295	230	218	482	3020	1950	4880	1600	539	521
16	571	350	271	227	221	484	3280	2190	5150	1450	491	990
17	636	338	266	221	230	490	3060	2220	4510	1400	507	853
18	595	344	259	249	227	482	3050	2290	4310	1540	498	752
19	586	326	266	258	227	490	2880	2290	4460	1680	482	2010
20	563	315	270	270	230	490	2300	2190	3940	1520	428	1510
21	546	300	275	258	238	506	1990	2070	3970	1420	443	1270
22	546	295	258	305	238	498	1730	1990	3830	1540	416	1200
23	530	300	258	300	238	459	1510	1970	3440	1540	388	1140
24	514	300	266	271	242	495	1550	2340	3110	1340	376	1010
25	514	305	231	270	242	537	1520	2890	3610	1190	351	902
26	510	295	242	258	242	609	1470	3400	3030	1130	327	812
27	500	271	289	254	230	628	1370	4080	2400	1080	315	751
28	500	266	295	246	238	619	1420	4430	2260	1050	315	701
29	490	290	290	234	---	594	1450	4600	2330	1420	320	778
30	490	275	285	230	---	555	1620	4400	2130	1260	320	711
31	480	---	262	221	---	531	---	3890	---	1160	310	---
TOTAL	18200	10819	8335	7718	6272	13864	54553	98590	127560	50130	18743	21643
MEAN	587	361	269	249	224	447	1818	3180	4252	1617	605	721
MAX	720	480	295	305	242	628	3280	4620	7250	2160	1190	2010
MIN	429	266	231	221	180	258	530	1950	2130	1050	310	300

CAL YR 1984	TOTAL	393788	MEAN	1076	MAX	7070	MIN	190
WTR YR 1985	TOTAL	436427	MEAN	1196	MAX	7250	MIN	180

09363500 ANIMAS RIVER NEAR CEDAR HILL, NM

LOCATION.--Lat 37°02,17", long 107°52,25", in sec.7, T.32 N., R.9 W., La Plata County, Colorado, Hydrologic Unit 14080104, on right bank 0.8 mi downstream from Florida River, 2.5 mi upstream from Colorado-New Mexico State line, 8.5 mi north of Cedar Hill, and at mile 32.9.

DRAINAGE AREA.--1,090 mi^2, approximately.

PERIOD OF RECORD.--October 1933 to current year. Monthly discharge only for October and November 1933, published in WSP 1313.

REVISED RECORDS.--WSP 1563: 1940 and 1946 (monthly figures only).

GAGE.--Water-stage recorder. Elevation of gage is 5,960 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Sept. 14, 1937, at datum between 1.52 ft and 1.36 ft, higher. Sept. 15, 1937, to Sept. 30, 1946, at datum 1.36 ft, higher.

REMARKS.--Estimated daily discharges: Dec. 19-21, 25, Jan. 3-6 and Jan. 31 to Feb. 12. Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 20,000 acres upstream from station. During water years 1944-49, Twin Rocks Canal diverted upstream from station for irrigation downstream. Slight regulation by Lemon Dam about 30 mi upstream on Florida River since November 1963 (capacity, 40,100 acre-ft).

AVERAGE DISCHARGE.--52 years, 915 ft^3/s, 662,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,100 ft^3/s, June 19, 1949, gage height, 11.45 ft; minimum, 63 ft^3/s, Jan. 21, 1935.

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred in October 1911 at this location.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
May 8	1130	5,150	8.03	June 9	1745	*8,450	*9.78
May 29	1345	5,240	8.08				

Minimum daily discharge, 210 ft^3/s, Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	588	551	315	349	230	345	766	2490	3630	2210	1080	391
2	697	533	339	269	210	360	784	2610	3510	2170	1080	375
3	781	535	326	285	230	370	875	3130	3980	2190	1240	392
4	886	545	326	295	290	390	1080	3980	3930	2170	1090	449
5	865	528	327	300	280	364	1320	4680	3960	2150	959	483
6	879	516	308	310	260	393	1510	4690	4730	2090	858	458
7	837	511	289	315	250	384	1800	4580	5870	1940	800	467
8	788	496	314	355	249	377	2040	4800	6950	1810	762	479
9	795	491	335	369	250	440	2200	4790	7710	1770	710	457
10	795	466	322	332	250	806	2230	4690	7400	1820	669	460
11	816	451	362	303	249	1170	2400	4210	7140	1850	660	627
12	837	459	352	272	245	1640	2440	3470	6650	1770	727	819
13	844	450	344	260	252	901	2720	2990	6280	1790	668	789
14	795	439	355	267	254	728	2950	2570	6030	1810	593	637
15	802	432	384	271	267	710	3260	2420	5810	1660	552	596
16	704	411	340	265	299	811	3590	2570	6070	1510	504	1000
17	753	411	330	276	320	873	3430	2600	5500	1450	520	984
18	746	421	318	299	353	726	3430	2660	5110	1590	523	941
19	767	412	310	293	355	865	3370	2640	4900	1690	523	1740
20	690	377	300	329	361	952	2780	2560	4460	1590	485	1610
21	684	367	300	297	373	838	2500	2410	4340	1470	491	1340
22	666	360	298	344	353	753	2230	2330	4280	1600	489	1230
23	660	364	302	379	347	668	2020	2300	3870	1650	445	1180
24	672	365	300	346	321	690	2000	2600	3450	1380	418	1070
25	648	378	300	335	321	769	1990	3030	3600	1250	415	953
26	624	376	311	315	325	856	1980	3480	3210	1180	390	856
27	606	331	413	306	313	861	1950	4140	2590	1140	384	799
28	606	316	601	297	330	850	1950	4500	2410	1090	383	746
29	600	349	558	282	---	839	2080	4840	2450	1420	389	788
30	590	331	448	267	---	783	2070	4660	2300	1320	390	760
31	585	---	374	250	---	754	---	4200	---	1210	378	---
TOTAL	22606	12972	10801	9432	8137	22266	65745	107620	142120	51740	19575	23876
MEAN	729	432	348	304	291	718	2192	3472	4737	1669	631	796
MAX	886	551	601	379	373	1640	3590	4840	7710	2210	1240	1740
MIN	585	316	289	250	210	345	766	2300	2300	1090	378	375
AC-FT	44840	25730	21420	18710	16140	44160	130400	213500	281900	102600	38830	47360

CAL YR 1984	TOTAL	430469	MEAN	1176	MAX	7640	MIN	242	AC-FT	853800
WTR YR 1985	TOTAL	496890	MEAN	1361	MAX	7710	MIN	210	AC-FT	985600

09365500 LA PLATA RIVER AT HESPERUS, CO

LOCATION.--Lat 37°17'23", long 108°02'24", in NE¼SW¼ sec.14, T.35 N., R.11 W., La Plata County, Hydrologic Unit 14080105, on right bank at Hesperus 700 ft downstream from U.S. Highway 160.

DRAINAGE AREA.--37 mi^2, approximately.

PERIOD OF RECORD.--June to August 1904, May 1905 to September 1906, August to November 1910, June 1917 to current year. Monthly discharge only for some periods, published in WSP 1313. Records for Nov. 11 to Dec. 31, 1910, published in WSP 289, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1243: 1906(M). WSP 1563: 1923 (monthly figures only). See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 8,104.71 ft above National Geodetic Vertical Datum of 1929. Prior to May 1, 1920, nonrecording gage, and May 1, 1920, to May 24, 1927, water-stage recorder, at several sites about 600 ft downstream at different datums. May 25, 1927, to Sept. 30, 1938, water-stage recorder at site 60 ft downstream and Oct. 1, 1938, to Sept. 30, 1941, at present site at datum 1.00 ft, higher.

REMARKS.--Estimated daily discharges: Nov. 26-28, Nov. 30 to Dec. 1, Dec. 2, 5-8, 10, 16, 18, 19, 21-26, Dec. 30 to Jan. 7, 11, 13-18, 20, 21, 23, 25, Jan. 28 to Feb. 7, Feb. 11-16, 19-20, Feb. 23 to Mar. 1, Mar. 3-5, 8, 13-14, 22-23, Mar. 30 to Apr. 1. Records good except for estimated daily discharges, which are fair. Cherry Creek ditch exports water above station for irrigation of about 2,000 acres in Cherry Creek drainage.

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

AVERAGE DISCHARGE.--69 years (water years 1906, 1918-85), 45.1 ft^3/s; 32,670 acre-ft/yr.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood observed occurred Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 230 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 15	2330	492	3.58	May 28	2300	*506	3.55
May 8	2300	450	3.49	June 7	2000	*555	*3.63

Minimum daily discharge, 6.0 ft^3/s, Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	17	10	8.5	6.0	8.6	24	126	198	39	18	9.1
2	12	17	10	8.0	6.5	8.6	25	142	225	39	18	9.6
3	14	18	9.1	8.0	7.5	8.5	32	217	245	36	19	10
4	15	18	9.6	8.0	7.0	8.0	43	310	221	33	16	9.6
5	16	18	9.1	8.5	6.5	9.6	61	370	194	30	14	9.1
6	16	18	8.6	9.0	7.0	9.1	84	365	237	30	12	8.6
7	13	18	9.0	9.0	7.5	9.6	184	355	370	26	11	9.6
8	13	18	10	9.6	7.8	10	221	396	408	26	11	9.1
9	12	18	10	9.6	7.3	11	245	380	380	27	11	8.6
10	11	17	10	9.6	7.3	17	276	325	320	30	14	8.6
11	11	16	10	9.0	7.0	21	281	237	305	30	15	10
12	15	16	10	9.1	7.5	23	281	167	276	28	14	10
13	15	16	12	8.5	7.5	21	333	128	263	31	14	10
14	16	16	12	8.5	7.5	21	350	107	250	29	13	11
15	16	16	10	8.5	8.0	22	380	110	237	28	13	14
16	14	15	9.5	8.5	8.2	21	375	151	217	25	12	15
17	14	15	9.6	8.5	8.2	21	310	148	180	24	13	16
18	12	15	8.6	8.0	8.2	21	258	191	151	27	13	29
19	11	14	8.6	8.6	8.0	23	221	170	158	24	12	97
20	11	13	9.6	8.6	7.8	22	161	136	148	24	12	61
21	12	12	8.5	8.6	7.8	23	139	123	142	22	11	53
22	12	12	8.0	8.2	7.8	22	115	115	128	33	11	48
23	15	12	8.0	8.2	7.5	22	98	115	112	25	10	39
24	18	12	8.0	8.2	7.5	23	95	148	98	23	10	32
25	18	13	8.5	8.0	8.0	26	90	213	98	20	10	28
26	16	12	8.6	8.2	8.2	28	86	315	68	17	10	25
27	17	11	10	8.2	8.6	26	86	375	58	16	10	23
28	17	11	11	9.0	8.6	26	86	408	54	19	11	22
29	16	11	10	8.5	---	26	86	360	51	25	11	22
30	17	10	9.0	8.5	---	25	90	290	47	22	10	20
31	17	---	9.0	8.0	---	24	---	254	---	18	9.6	---
TOTAL	443	445	293.9	265.2	212.3	587.0	5116	7247	5839	826	388.6	676.9
MEAN	14.3	14.8	9.48	8.55	7.58	18.9	171	234	195	26.6	12.5	22.6
MAX	18	18	12	9.6	8.6	28	380	408	408	39	19	97
MIN	11	10	8.0	8.0	6.0	8.0	24	107	47	16	9.6	8.6

CAL YR 1984	TOTAL	16534.6	MEAN	45.2	MAX	444	MIN	6.0
WTR YR 1985	TOTAL	22339.9	MEAN	61.2	MAX	408	MIN	6.0

09366500 LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE

LOCATION.--Lat 36°59'51", long 108°11'17", in NW¼SE¼ sec.10, T.32 N., R.13 W., La Plata County, CO, Hydrologic Unit 14080105, on right bank at Colorado-New Mexico State line, 0.2 mi downstream from Ponds Arroyo, and 4.8 mi north of La Plata, NM.

DRAINAGE AREA.--331 mi^2.

PERIOD OF RECORD.--January 1920 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1313: 1934(M), 1936(M).

GAGE.--Water-stage recorder. Datum of gage is 5,975.15 ft above National Geodetic Vertical Datum of 1929. See WSP 1713 or 1733 for history of changes prior to Mar. 17, 1934.

REMARKS.-- Estimated daily discharges: Nov. 27 to Dec. 3, Dec. 23-25, Jan. 3-6, 12-19, Jan. 30 to Feb. 19, Apr. 26-29, May 1-3. Records good except for estimated daily discharges, which are fair. Diversions above station for irrigation of about 15,000 acres, mostly above station.

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

AVERAGE DISCHARGE.--65 years, 35.6 ft^3/s; 25,790 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,750 ft^3/s, Aug. 24, 1927, gage height, 11.36 ft, present datum, from rating curve extended above 750 ft^3/s, on basis of slope-area measurement of peak flow; no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 593 ft^3/s at 0500 Apr. 11, gage height, 3.31 ft; minimum daily, 2.9 ft^3/s, Aug. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	14	13	24	8.0	29	94	79	108	36	11	3.8
2	7.0	14	13	22	9.0	31	108	92	90	36	9.5	3.8
3	7.5	14	13	20	10	31	132	135	99	34	21	3.8
4	10	14	14	21	10	24	169	230	86	31	21	4.1
5	11	14	14	22	10	24	180	330	86	26	14	4.4
6	8.0	15	14	23	12	26	224	342	101	23	12	4.4
7	8.0	14	15	23	14	22	292	342	145	27	10	5.1
8	8.5	13	20	24	16	21	372	352	188	27	9.0	5.1
9	8.5	14	21	22	15	29	402	338	226	26	8.5	4.8
10	8.0	15	21	21	15	46	458	258	178	27	7.5	5.1
11	9.0	15	23	18	14	173	485	196	131	23	7.5	19
12	10	13	25	17	16	196	425	137	110	19	7.0	16
13	12	11	26	17	16	117	452	101	77	16	5.8	9.0
14	12	12	25	18	16	103	452	58	82	13	5.4	7.5
15	12	12	26	18	18	104	485	43	80	14	5.4	8.5
16	12	12	23	17	20	104	482	42	103	13	5.4	9.0
17	16	12	23	17	22	113	378	45	71	16	4.4	8.0
18	19	12	22	19	26	92	330	56	83	23	2.9	20
19	17	12	23	19	30	114	295	66	79	27	4.1	38
20	16	11	24	21	33	131	206	53	70	21	5.1	66
21	17	11	23	21	32	135	147	50	77	14	5.8	58
22	16	13	19	21	28	111	139	58	80	23	5.4	35
23	17	14	20	19	29	91	110	60	78	21	4.4	31
24	20	16	22	20	26	90	99	66	73	17	3.5	26
25	17	18	24	19	26	101	82	77	80	15	3.8	23
26	15	16	29	20	25	117	80	104	69	16	4.5	22
27	15	13	40	19	24	100	80	171	66	14	4.4	21
28	14	13	43	19	26	94	80	198	54	13	4.8	21
29	14	14	44	20	---	106	80	208	45	16	5.1	21
30	14	13	34	14	---	92	82	175	39	15	5.1	21
31	14	---	30	10	---	86	---	145	---	17	3.8	---
TOTAL	390.3	404	726	605	546.0	2653	7400	4607	2854	659	227.1	524.4
MEAN	12.6	13.5	23.4	19.5	19.5	85.6	247	149	95.1	21.3	7.33	17.5
MAX	20	18	44	24	33	196	485	352	226	36	21	66
MIN	5.8	11	13	10	8.0	21	80	42	39	13	2.9	3.8

CAL YR 1984	TOTAL	14961.3	MEAN	40.9	MAX	242	MIN	3.5
WTR YR 1985	TOTAL	21595.8	MEAN	59.2	MAX	485	MIN	2.9

09371000 MANCOS RIVER NEAR TOWAOC, CO

LOCATION.--Lat 37°01'39", long 108°44'27", Ute Indian Reservation, Montezuma County, Hydrologic Unit 14080107, on left bank 700 ft upstream from bridge on U.S. Highway 666, 2.0 mi north of Colorado-New Mexico State line, 6.0 mi upstream from Aztec Creek, and 12 mi south of Towaoc.

DRAINAGE AREA.--526 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Streamflow records, October 1920 to September 1943, February 1951 to current year. Monthly discharge only for some periods, published in WSP 1313. Water-quality data available, August 1969 to June 1972. Sediment data available, April to December 1961.

REVISED RECORDS.--WSP 1733: 1924 (monthly figures only). WDR-CO-83-3: drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,055.98 ft above National Geodetic Vertical Datum of 1929. See WSP 1713 or 1733 for history of changes prior to Mar. 11, 1954.

REMARKS.--Estimated daily discharges: Nov. 29, Dec. 4, 11, 22-28, 30, 31, Jan. 1-22, 27-31, Feb. 1-12, 13, 16, Mar. 5, 6, June 13-20, Aug. 5-29. Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 10,000 acres above station. One diversion above station for irrigation of about 100 acres below. Flow regulated by Jackson Gulch Reservoir, capacity, 10,000 acre-ft since March 1949. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--57 years, 53.1 ft^3/s; 38,470 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,300 ft^3/s, Oct. 14, 1941, gage height, 7.30 ft, present site and datum, from rating curve extended above 200 ft^3/s, on basis of slope-area measurement of peak flow; maximum gage height, 8.50 ft, Sept. 6, 1970; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 5	1330	*564	*3.86				

No flow, Aug. 30 to Sept. 3, and part of day Sept. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	25	11	24	18	44	73	188	203	14	22	.00
2	13	26	11	20	17	47	84	205	178	11	19	.00
3	15	25	11	17	18	47	119	232	191	8.9	15	.00
4	25	25	11	17	18	43	152	319	191	7.3	17	.30
5	37	25	11	17	18	36	167	489	177	7.0	13	2.5
6	35	23	11	19	18	34	187	500	165	4.2	11	3.7
7	51	24	9.6	20	18	28	220	501	181	4.3	10	7.3
8	31	24	21	22	18	28	259	487	220	3.2	9.0	14
9	21	23	28	20	18	33	268	456	247	2.8	8.0	15
10	19	23	23	20	18	55	270	455	238	2.8	7.0	11
11	20	20	33	17	18	241	288	409	212	3.0	6.5	11
12	31	21	23	16	19	302	288	329	176	3.0	6.0	22
13	34	22	14	14	20	207	300	274	150	3.2	5.0	27
14	32	21	14	13	18	127	307	222	120	2.5	4.4	20
15	27	21	13	13	19	107	324	190	130	1.1	3.8	51
16	29	21	16	13	27	106	346	185	130	.81	3.4	159
17	31	20	16	14	68	117	310	212	110	2.0	3.2	53
18	44	22	19	16	79	107	308	223	90	2.5	3.2	55
19	42	25	22	17	71	115	312	225	75	3.7	3.0	268
20	37	23	20	19	60	180	254	200	70	69	2.6	167
21	34	19	14	22	68	131	216	170	64	18	2.4	185
22	33	19	13	26	55	112	217	165	61	21	2.2	82
23	33	20	13	28	52	92	221	165	50	21	2.0	62
24	34	22	13	26	40	81	230	142	39	17	1.6	43
25	34	25	14	24	34	94	210	139	36	12	1.2	34
26	30	25	19	23	37	118	197	172	36	15	1.0	30
27	28	14	32	24	36	109	194	214	27	13	.60	26
28	28	9.0	75	24	42	90	183	221	21	8.7	.30	24
29	27	10	107	22	---	89	180	235	17	16	.10	30
30	26	11	46	20	---	81	177	233	15	22	.00	33
31	25	---	34	19	---	72	---	208	---	47	.00	---
TOTAL	918	633.0	717.6	606	942	3073	6861	8365	3620	367.01	183.50	1435.80
MEAN	29.6	21.1	23.1	19.5	33.6	99.1	229	270	121	11.8	5.92	47.9
MAX	51	26	107	28	79	302	346	501	247	69	22	268
MIN	12	9.0	9.6	13	17	28	73	139	15	.81	.00	.00
AC-FT	1820	1260	1420	1200	1870	6100	13610	16590	7180	728	364	2850

CAL YR 1984	TOTAL	24736.9	MEAN	67.6	MAX	568	MIN	1.9	AC-FT	49070
WTR YR 1985	TOTAL	27721.91	MEAN	76.0	MAX	501	MIN	.00	AC-FT	54990

09371000 MANCOS RIVER NEAR TOWAOC, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: October 1983 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
OCT										
26...	1250	29	1500	6.9	7.0	700	150	80	86	1
NOV										
30...	1030	6.7	1960	--	.0	890	190	100	120	2
DEC										
28...	1110	147	1500	7.4	1.0	690	150	77	84	1
JAN										
23...	1005	24	1570	8.3	3.0	800	170	91	98	2
FEB										
12...	1130	17	1540	8.2	.0	840	180	96	110	2
MAR										
07...	1010	30	1760	8.3	5.0	790	170	88	98	2
APR										
02...	0930	62	1340	8.1	8.0	600	130	66	75	1
MAY										
09...	1000	474	365	7.5	11.5	160	43	13	18	.6
JUN										
21...	0900	70	775	8.2	20.5	360	90	34	36	.8
JUL										
23...	0950	21	1490	8.5	22.0	770	170	84	95	2
SEP										
27...	1245	27	1570	8.0	15.0	690	160	71	71	1

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)
OCT									
26...	3.2	176	670	12	8.4	1100	1.5	87	.12
NOV									
30...	3.5	219	910	15	8.0	1500	2.0	27	.32
DEC									
28...	3.8	180	690	12	6.3	1100	1.5	449	.34
JAN									
23...	3.1	224	700	13	8.4	1200	1.7	79	.50
FEB									
12...	2.8	216	820	14	8.3	1400	1.9	62	.45
MAR									
07...	3.2	234	760	15	8.1	1300	1.7	104	.25
APR									
02...	2.6	175	520	11	8.6	920	1.2	154	<.10
MAY									
09...	2.5	84	97	2.2	8.7	230	.32	300	.16
JUN									
21...	17	137	290	4.9	8.7	560	.77	106	<.10
JUL									
23...	6.2	159	730	13	10	1200	1.6	68	.10
SEP									
27...	3.9	163	640	9.0	11	1100	1.4	78	<.10

09371400 HARTMAN DRAW AT CORTEZ, CO

LOCATION.--Lat 37°19'26", long 108°36'52", in NW¼NE¼ sec.4, T.35 N., R.16 W., Montezuma County, Hydrologic Unit 14080202, on left bank 600 ft upstream from mouth, 0.30 mi upstream from McElmo Fall, and 1.2 mi southwest of Cortez.

DRAINAGE AREA.--34.0 mi^2.

PERIOD OF RECORD.--April 1978 to current year. Water-quality data available, April 1978 to December 1981.

GAGE.--Water-stage recorder. Elevation of gage is 5,900 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 7-10, Nov. 5 to Dec. 7, Dec. 22 to Jan. 24, 30-31, Feb. 1-12, July 28-31. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation above station.

AVERAGE DISCHARGE.--7 years, 13.7 ft^3/s; 9,930 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 172 ft^3/s, July 12, 1981, gage height, 4.36 ft; minimum daily, 0.28 ft^3/s, Apr. 30 to May 3, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, not determined; minimum daily, 4.2 ft^3/s, May 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	9.9	7.0	16	5.0	8.5	17	11	13	14	24	8.6
2	13	9.4	7.0	13	6.5	8.5	14	11	11	14	25	8.2
3	19	9.7	7.0	11	7.5	8.3	14	9.5	11	15	25	10
4	21	9.7	7.0	11	7.5	8.0	13	9.2	11	18	21	8.7
5	22	10	7.5	11	8.0	7.8	12	8.9	11	16	19	8.0
6	17	10	8.0	12	8.0	8.0	11	8.7	11	15	17	7.2
7	14	10	11	13	8.0	7.5	11	8.3	12	15	17	13
8	11	9.5	16	14	8.0	7.0	11	7.8	12	18	16	14
9	9.5	8.5	20	13	7.5	7.8	11	6.9	10	17	15	12
10	9.0	7.5	16	13	7.5	13	11	4.6	9.9	17	16	11
11	12	7.0	18	11	7.5	20	10	4.3	10	18	16	12
12	13	6.5	21	10	10	28	10	4.2	10	17	17	18
13	14	6.0	20	9.0	13	17	9.9	4.3	10	18	17	14
14	12	6.5	18	8.5	15	14	10	4.6	10	16	18	12
15	12	7.0	17	8.5	15	13	9.2	4.6	10	15	17	18
16	12	7.5	16	8.5	20	15	9.2	4.8	10	14	16	17
17	13	9.0	16	9.0	19	14	9.4	4.7	11	14	16	12
18	16	10	16	10	16	13	10	5.0	11	16	17	12
19	14	10	15	11	14	21	12	6.5	11	16	16	18
20	12	10	15	12	13	25	11	7.2	11	24	16	17
21	11	11	15	14	12	16	13	8.3	11	22	17	23
22	11	10	11	12	12	14	16	10	11	25	15	18
23	12	10	9.5	10	11	13	16	12	11	30	16	15
24	15	11	8.5	12	9.7	13	12	13	12	25	16	14
25	13	13	8.5	12	9.6	13	12	14	13	25	18	14
26	12	14	12	11	9.2	13	12	14	14	25	18	13
27	12	10	20	11	8.9	12	14	13	14	23	16	13
28	11	8.0	48	11	8.9	12	14	12	14	22	17	14
29	11	7.5	50	11	---	14	14	12	14	26	16	17
30	11	7.0	32	8.5	---	16	12	11	14	28	13	14
31	11	---	22	6.5	---	16	---	11	---	32	10	---
TOTAL	409.5	275.2	515.0	343.5	297.3	416.4	360.7	266.4	343.9	610	533	405.7
MEAN	13.2	9.17	16.6	11.1	10.6	13.4	12.0	8.59	11.5	19.7	17.2	13.5
MAX	22	14	50	16	20	28	17	14	14	32	25	23
MIN	9.0	6.0	7.0	6.5	5.0	7.0	9.2	4.2	9.9	14	10	7.2
AC-FT	812	546	1020	681	590	826	715	528	682	1210	1060	805

CAL YR 1984	TOTAL	4691.7	MEAN	12.8	MAX	61	MIN	2.5	AC-FT	9310
WTR YR 1985	TOTAL	4776.6	MEAN	13.1	MAX	50	MIN	4.2	AC-FT	9470

09371420 McELMO CREEK ABOVE ALKALI CANYON, NEAR CORTEZ, CO

LOCATION.--Lat 37°19'38", long 108°38'55", in SE¼SE¼ sec.31, T.36 N., R.16 W., Montezuma County, Hydrologic Unit 14080202, on left bank 0.9 mi upstream from Alkali Canyon and 4.0 mi southwest of Cortez.

DRAINAGE AREA.--147 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 5,750 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 20, 27-30, Dec. 1-9, 23-26, Jan. 3-7, 10-20, Feb. 1-16, 19-25, Mar. 1-2, Sept. 18-30. Records good except for estimated daily discharges, which are poor. Diversions from tributaries above station for irrigation. Low flows are mainly return flow from irrigated areas. Water is imported above station from Dolores River basin for irrigation of about 33,000 acres above and below station in Montezuma Irrigation District and for municipal use by city of Cortez. A small amount of water is diverted at times to Mancos River basin. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--13 years, 26.8 ft^3/s; 19,420 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 864 ft^3/s, July 15, 1981, gage height, 6.08 ft, from rating curve extended above 190 ft^3/s, on basis of step-backwater method; minimum daily, 1.5 ft^3/s, Sept. 21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 580 ft^3/s at 0500 July 22, gage height, 5.10 ft; minimum daily, 12 ft^3/s, Apr. 7-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	29	22	38	13	20	38	26	22	19	54	18
2	28	32	22	31	17	22	28	21	22	19	58	19
3	25	34	22	26	19	24	26	17	22	18	49	20
4	67	32	22	26	19	24	15	16	22	23	39	17
5	45	34	24	26	20	23	13	16	22	19	34	15
6	60	35	24	28	20	22	13	15	23	19	28	16
7	39	33	22	30	20	20	12	14	22	19	28	28
8	31	30	22	33	20	20	12	14	23	21	26	34
9	26	29	28	31	19	22	19	18	21	21	20	25
10	25	29	34	30	19	38	24	14	23	21	22	25
11	26	28	37	26	19	87	26	15	23	24	24	28
12	36	28	55	24	26	132	25	18	20	25	24	66
13	44	29	44	20	30	83	17	22	20	26	24	44
14	31	33	44	19	32	51	16	26	22	22	25	40
15	31	26	38	19	36	42	16	25	23	19	26	102
16	31	25	34	19	50	47	16	23	23	20	23	73
17	33	26	32	20	66	48	16	16	19	21	23	34
18	48	26	32	22	49	38	16	15	20	27	23	60
19	40	25	34	24	42	58	37	15	20	34	21	110
20	28	26	37	28	42	85	29	16	19	92	21	65
21	27	29	32	33	40	50	31	19	18	62	20	90
22	28	30	23	26	34	39	44	23	19	143	21	55
23	33	32	18	23	30	32	45	24	18	91	24	40
24	42	34	17	28	26	30	25	26	18	78	24	34
25	37	41	16	28	24	29	19	27	20	73	23	34
26	31	39	22	28	21	27	22	28	20	75	26	32
27	24	30	45	28	19	27	25	24	21	71	28	32
28	24	24	114	26	20	26	23	21	21	70	33	34
29	22	24	115	28	---	33	27	20	21	82	30	44
30	23	22	73	22	---	38	21	18	20	86	24	34
31	24	---	51	18	---	37	---	18	---	102	19	---
TOTAL	1031	894	1155	808	792	1274	696	610	627	1442	864	1268
MEAN	33.3	29.8	37.3	26.1	28.3	41.1	23.2	19.7	20.9	46.5	27.9	42.3
MAX	67	41	115	38	66	132	45	28	23	143	58	110
MIN	22	22	16	18	13	20	12	14	18	18	19	15
AC-FT	2040	1770	2290	1600	1570	2530	1380	1210	1240	2860	1710	2520

CAL YR 1984	TOTAL	10882	MEAN	29.7	MAX	157	MIN	10	AC-FT	21580
WTR YR 1985	TOTAL	11461	MEAN	31.4	MAX	143	MIN	12	AC-FT	22730

09371492 MUD CREEK AT HIGHWAY 32 NEAR CORTEZ, CO

LOCATION.--Lat 37°18'46", long 108°39'38", in SW¼ sec.6, T.35 N., R.16 W., Montezuma County, Hydrologic Unit 14080202, on left bank 1 mi upstream from mouth, and 4.5 mi southwest of Cortez.

DRAINAGE AREA.--33.6 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 5,765 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharge: Oct. 1-25, Dec. 23-26, Jan. 2-6, 11-17, 31, Feb. 1-5, 9-13, 24-28, Mar. 1-7, Sept. 10-26. Records good except for estimated daily discharges, which are poor. Several observations of specific conductance and water temperature were obtained, and are published elsewhere in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 598 ft³/s, Aug. 24, 1982, gage height, 8.53 ft; from rating curve extended above 36 ft³/s, on basis of slope-area measurement; minimum daily, 1.2 ft³/s, Feb. 13-14, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 34 ft³/s at 2200 Dec. 27, gage height, 2.40 ft, but may have been higher during period of no gage-height record Sept. 10-26; minimum daily, 1.8 ft³/s, Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	6.7	4.0	5.0	1.8	2.0	4.6	4.4	21	15	18	11
2	10	6.0	4.0	3.8	2.4	2.2	3.8	4.2	20	15	16	12
3	9.5	5.8	3.8	3.4	2.6	2.2	4.2	3.5	20	14	16	15
4	18	5.8	3.8	3.4	2.6	2.2	4.4	3.7	19	9.0	16	15
5	12	5.8	3.4	3.6	2.8	2.2	4.4	3.8	20	12	16	14
6	14	6.2	3.2	3.8	2.9	2.2	4.2	3.8	20	12	15	13
7	10	7.8	3.5	4.2	2.9	2.2	4.0	3.5	20	15	14	15
8	7.5	6.4	4.4	4.2	2.7	2.1	3.7	3.2	22	17	14	15
9	6.5	6.0	5.4	4.4	2.6	2.4	3.7	3.0	21	16	16	14
10	6.0	4.6	5.2	4.0	2.6	4.4	3.7	5.9	21	16	16	12
11	6.5	5.2	5.8	3.4	2.6	6.7	3.5	8.0	21	15	16	13
12	7.5	5.2	6.7	3.0	2.6	14	3.2	8.0	20	15	16	22
13	9.0	5.2	6.2	2.6	3.0	6.0	3.2	8.2	20	14	16	16
14	7.0	5.4	6.2	2.4	3.5	4.2	3.2	8.4	20	14	16	15
15	7.5	5.4	6.7	2.4	5.0	3.4	3.4	9.9	19	14	16	28
16	8.0	5.2	5.4	2.6	7.3	4.2	3.4	10	17	14	17	26
17	8.5	5.4	5.0	2.8	4.7	4.2	3.2	9.7	19	16	16	16
18	12	5.6	5.2	3.0	3.5	3.5	3.5	9.9	19	17	15	20
19	8.0	5.4	5.4	3.2	3.8	13	4.2	12	17	17	16	32
20	7.5	5.2	5.4	3.7	3.7	16	3.8	12	17	23	16	24
21	7.0	5.0	5.2	4.2	3.4	7.1	4.6	13	17	20	17	30
22	7.5	5.2	3.8	3.7	3.2	5.4	6.2	17	16	23	17	22
23	8.0	5.2	3.0	3.4	3.0	4.6	5.4	17	16	22	17	16
24	9.5	5.0	2.8	3.2	2.4	4.6	4.6	16	16	21	18	13
25	8.5	5.6	2.4	3.5	2.2	4.4	4.0	17	15	19	16	12
26	7.6	5.0	3.0	3.5	2.0	4.2	5.2	17	15	17	14	11
27	7.3	3.4	12	3.5	1.9	4.2	5.8	17	14	17	15	11
28	7.3	3.4	20	3.8	2.0	4.0	5.2	15	13	17	15	11
29	7.1	3.8	19	3.8	---	5.0	6.7	20	14	19	14	12
30	7.1	4.0	9.6	3.5	---	5.8	4.8	21	15	20	12	11
31	7.1	---	6.5	2.6	---	5.0	---	22	---	21	12	---
TOTAL	267.5	159.9	186.0	107.6	85.7	153.6	127.8	327.1	544	516.0	484	497
MEAN	8.63	5.33	6.00	3.47	3.06	4.95	4.26	10.6	18.1	16.6	15.6	16.6
MAX	18	7.8	20	5.0	7.3	16	6.7	22	22	23	18	32
MIN	6.0	3.4	2.4	2.4	1.8	2.0	3.2	3.0	13	9.0	12	11
AC-FT	531	317	369	213	170	305	253	649	1080	1020	960	986

CAL YR 1984	TOTAL	3201.4	MEAN	8.75	MAX	48	MIN	2.1	AC-FT	6350
WTR YR 1985	TOTAL	3456.2	MEAN	9.47	MAX	32	MIN	1.8	AC-FT	6860

09371500 McELMO CREEK NEAR CORTEZ, CO

LOCATION.--Lat 37°19'23", long 108°40'22", in NE¼ sec.1, T.35N., R.71 W., Montezuma County, Hydrologic Unit 14080202, on left bank 150 ft downstream from mouth of Mud Creek, and 4 mi southwest of Cortez.

DRAINAGE AREA.--230 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1926 to September 1929, April 1940 to September 1945, October 1950 to September 1954 (monthly discharge only for some periods, published in WSP 1313), January 1982 to current year.

REVISED RECORDS.--WSP 1313: 1927, 1927 (M).

GAGE.--Water-stage recorder. Elevation of gage is 5,700 ft above National Geodetic Vertical Datum of 1929, by barometer. Prior to Sept. 30, 1929, at site 3 mi downstream at different datum. Mar. 29, 1940 to Nov. 2, 1941, at site 150 ft upstream at datum 4.20 ft, higher. Nov. 3, 1941 to Sept. 30, 1945, at present site at datum 4.00 ft, higher. Oct. 1, 1950 to Sept. 30, 1954, at present site at datum 2.50 ft, higher, Jan. 1, 1982, to present, at former site at same datum.

REMARKS.--Estimated daily discharges: Nov. 28-30, Dec. 1-8, 22-26, Jan. 2-7, 10-23, 31, Feb. 1-14. Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 200 acres above station. Flow is mainly return flows from irrigated lands for Montezuma Irrigation District (water imported from Dolores River basin).

AVERAGE DISCHARGE.--15 years (water years 1927-29, 1941-45, 1951-54, 1983-85), 54.6 ft^3/s; 39,560 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,560 ft^3/s, Sept. 9, 1927, gage height, 6.45 ft, from rating curve extended above 240 ft^3/s, on basis of slope-area measurement at gage height, 5.72 ft; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 615 ft^3/s at 0600 July 22, gage height, 6.02 ft; minimum daily, 19 ft^3/s, Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	44	28	53	19	32	70	42	72	63	102	38
2	73	45	28	38	26	36	52	39	70	59	125	39
3	65	46	28	36	28	37	47	32	66	59	115	38
4	140	45	30	36	28	36	38	32	63	60	107	35
5	84	49	30	38	30	36	36	31	72	59	98	36
6	99	52	30	40	30	36	35	31	72	55	89	39
7	67	46	28	44	30	35	33	30	73	55	82	63
8	52	42	32	48	30	34	33	30	74	55	83	73
9	45	41	62	45	28	36	39	50	66	51	74	58
10	42	37	47	40	28	65	43	49	64	55	76	53
11	44	37	55	38	28	132	44	47	67	59	74	60
12	55	37	76	32	30	198	42	47	62	64	70	107
13	64	37	62	28	34	121	33	53	67	65	59	73
14	48	40	61	26	44	76	33	52	68	57	50	68
15	52	37	57	26	56	64	33	57	69	52	55	138
16	55	41	50	28	79	81	33	52	69	53	54	132
17	62	46	47	30	92	77	33	56	76	53	53	73
18	84	47	47	32	84	61	36	55	81	55	55	93
19	57	45	50	34	61	105	60	57	76	53	56	180
20	52	48	49	40	61	150	51	53	75	172	58	113
21	49	45	47	44	56	95	62	55	70	117	66	150
22	51	41	34	48	52	71	83	59	67	190	60	92
23	55	44	26	42	47	60	73	60	68	150	59	73
24	69	46	26	38	38	58	48	61	60	121	57	59
25	61	55	22	38	34	55	38	70	59	112	56	57
26	52	49	30	37	32	52	43	70	59	115	59	53
27	45	37	76	37	30	55	47	63	55	127	57	52
28	44	32	208	36	32	66	44	56	57	131	60	55
29	41	30	180	38	---	82	52	61	61	154	57	74
30	40	28	107	36	---	78	40	57	61	140	45	59
31	40	---	74	26	---	72	---	66	---	140	38	---
TOTAL	1846	1269	1727	1152	1167	2192	1354	1573	2019	2751	2149	2233
MEAN	59.5	42.3	55.7	37.2	41.7	70.7	45.1	50.7	67.3	88.7	69.3	74.4
MAX	140	55	208	53	92	198	83	70	81	190	125	180
MIN	40	28	22	26	19	32	33	30	55	51	38	35
AC-FT	3660	2520	3430	2280	2310	4350	2690	3120	4000	5460	4260	4430

CAL YR 1984	TOTAL	19644	MEAN	53.7	MAX	263	MIN	19	AC-FT	38960
WTR YR 1985	TOTAL	21432	MEAN	58.7	MAX	208	MIN	19	AC-FT	42510

09371500 McELMO CREEK NEAR CORTEZ, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Jan. 1, 1982 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Feb. 6, 1982 to current year.
WATER TEMPERATURES: Feb. 6, 1982 to current year.

INSTRUMENTATION.--Water-quality monitor since January 1982.

REMARKS.--Daily maximum and minimum specific conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum 4,180 microsiemens Jan. 31, 1985; minimum, 847 microsiemens Aug. 24, 1982.
WATER TEMPERATURES: Maximum 26.5°C July 18,19 1985; minimum, 0.0°C many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum 4,180 microsiemens Jan. 31; minimum recorded, 1,270 microsiemens July 20 (but may have been lower during period of missing record Aug.5 to Sept.27).
WATER TEMPERATURES: Maximum 26.5°C July 18,19; minimum 0.0°C, many days during winter months.

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25 DEG C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1800	2720	2950	2500	3230	3250	3110	2800	1620	1560	1740	---
2	1820	2710	2970	2530	3090	3230	3110	2690	1570	1560	1710	---
3	1870	2630	2960	2810	2920	3220	3150	3060	1530	1530	1710	---
4	2040	2450	2960	3000	2930	3250	3260	3180	1590	1540	1680	---
5	1910	2370	2980	2950	3010	3270	3410	3230	1590	1520	1680	---
6	2020	2430	2940	2890	3160	3330	3420	3220	1600	1510	---	---
7	2080	2410	2900	2770	3120	3370	3420	3090	1600	1470	---	---
8	2450	2460	2750	2790	3020	3380	3450	3000	1610	1520	---	---
9	2490	2470	2700	2800	2780	3350	3450	2060	1610	1610	---	---
10	2540	2500	2860	2850	2680	3370	3280	1860	1610	1640	---	---
11	2470	2510	2720	2910	2870	3390	3060	2070	1560	1600	---	---
12	2410	2540	2510	2960	2960	3300	3060	2070	1590	1550	---	---
13	2470	2530	2420	2850	2840	3030	3200	2020	1580	1620	---	---
14	2470	2570	2360	2960	2490	3120	3240	2030	1560	1600	---	---
15	2480	2640	2280	2690	2480	3170	3260	1910	1520	1620	---	---
16	2530	2610	2330	2690	2400	3220	3220	1950	1500	1610	---	---
17	2560	2300	2290	2660	2130	3280	3220	1740	1410	1660	---	---
18	2570	2310	2340	2320	2160	3240	3250	1790	1390	1640	---	---
19	2600	2320	2290	2770	2370	3270	2950	1820	1350	1630	---	---
20	2580	2350	2240	2820	2510	3150	2880	1830	1360	1580	---	---
21	2600	2350	2170	3000	2600	3150	2950	1700	1410	1560	---	---
22	2700	2400	2120	2900	2730	3230	3180	1730	1430	1810	---	---
23	2700	2440	2080	3020	2780	3220	3260	1760	1440	1580	---	---
24	2690	2440	2000	2990	2880	3200	3180	1740	1440	1520	---	---
25	2720	2430	1890	3020	3030	3220	3200	1630	1420	1510	---	---
26	2760	2460	1830	3010	3080	3230	3160	1590	1430	1550	---	---
27	2740	2630	1480	3080	3150	3120	3170	1640	1460	1590	---	---
28	2790	2880	2020	3160	3130	2870	3200	1690	1510	1590	---	2230
29	2780	2890	2310	3180	---	2850	3270	1670	1550	1660	---	1860
30	2740	2930	2430	3110	---	3080	3150	1700	1560	1720	---	1940
31	2720	---	2730	3260	---	3170	---	1660	---	1910	---	---
MEAN	2450	2520	2450	2880	2800	3210	3200	2130	1510	1600	1700	2010

WTR YR 1985 MEAN 2460 MAX 3450 MIN 1350

09371500 McELMO CREEK NEAR CORTEZ, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	14.0	9.5	9.5	5.0	.5	.0	1.0	.0	.5	.0	8.5	2.5
2	13.5	10.5	8.0	4.5	1.0	.0	.0	.0	.5	.0	7.0	4.0
3	12.0	9.5	8.0	4.5	.5	.0	.0	.0	.5	.5	5.0	2.5
4	10.5	9.5	8.0	2.5	.5	.0	.0	.0	.5	.5	5.5	.5
5	14.5	10.0	6.0	2.0	.5	.0	.0	.0	.5	.0	6.5	.5
6	13.0	10.0	6.0	4.0	.5	.0	.0	.0	.5	.5	8.5	4.0
7	13.0	5.0	6.0	2.0	1.0	.0	.0	.0	.5	.0	9.5	3.5
8	14.5	5.5	6.0	4.0	2.0	.0	1.0	.0	.5	.0	9.5	3.0
9	14.5	10.0	6.0	2.5	4.0	1.0	1.0	.0	.5	.0	9.0	6.5
10	14.5	10.5	4.5	.0	2.5	.0	1.0	.0	.5	.0	8.5	7.5
11	14.5	9.5	6.0	.5	4.5	2.5	1.0	.5	.5	.5	8.0	7.0
12	12.5	10.0	6.0	1.0	3.0	2.0	1.0	.0	.5	.0	7.5	5.5
13	12.5	7.0	7.0	2.0	2.0	.0	.0	.0	.5	.0	8.0	3.5
14	11.0	9.0	8.0	5.0	3.0	1.0	.0	.0	1.0	.5	8.5	4.5
15	8.0	5.0	6.0	2.0	3.0	1.0	.0	.0	1.0	.5	8.0	6.0
16	8.0	3.0	6.0	2.0	4.0	.5	.0	.0	2.0	.5	9.5	5.0
17	7.5	5.0	6.0	4.5	3.0	.5	.0	.0	5.0	.5	10.0	6.5
18	8.0	4.0	6.0	4.0	3.0	.0	.5	.0	5.5	2.0	11.0	5.0
19	7.5	5.0	5.0	.5	3.0	.0	.5	.0	5.0	1.5	9.0	5.0
20	8.0	4.5	4.0	.0	3.0	1.0	1.0	.0	6.0	3.5	9.5	6.0
21	8.0	5.0	2.5	.0	3.0	.0	.5	.0	5.5	3.5	9.5	5.0
22	7.5	5.0	6.0	2.0	.5	.5	2.0	.0	5.5	2.0	9.5	4.5
23	6.0	4.0	5.5	2.0	.5	.5	3.0	.0	5.5	2.0	10.0	3.0
24	7.5	5.0	6.0	5.0	.5	.0	3.0	2.0	6.0	.5	12.0	4.5
25	8.0	4.5	4.5	2.0	.5	.0	4.5	2.0	7.0	1.0	12.5	6.0
26	7.5	4.5	3.0	.0	.5	.0	3.0	1.0	7.5	2.0	10.5	7.0
27	9.5	7.0	.5	.0	1.0	.0	3.0	2.0	8.0	1.5	9.5	6.5
28	9.5	5.0	.5	.0	3.0	.0	3.0	.0	9.0	2.5	9.0	6.0
29	9.5	5.0	1.0	.0	3.0	1.0	3.0	.0	---	---	7.0	4.5
30	9.5	5.0	.5	.0	2.5	.0	2.0	.0	---	---	8.5	2.5
31	10.0	5.0	---	---	2.5	.0	.5	.0	---	---	8.5	2.5
MONTH	14.5	3.0	9.5	.0	4.5	.0	4.5	.0	9.0	.0	12.5	.5
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	12.0	4.5	17.0	10.5	19.0	11.5	22.5	14.0	21.5	19.0	23.5	18.0
2	13.0	6.0	20.0	10.0	20.0	12.0	22.5	15.0	22.5	18.5	21.5	17.5
3	13.5	6.0	20.0	11.5	18.5	12.5	23.5	15.5	23.0	18.5	21.0	17.0
4	12.5	7.0	18.0	13.0	18.5	12.5	23.5	16.0	23.5	17.5	21.0	15.5
5	14.0	5.0	21.0	11.5	21.0	13.0	24.0	16.0	23.5	17.0	21.0	14.5
6	15.0	6.0	21.5	12.5	22.5	14.0	25.0	16.5	24.5	18.0	20.0	13.0
7	15.5	6.5	21.0	11.5	24.0	15.5	24.5	18.0	23.5	17.0	16.5	14.5
8	16.0	7.0	18.5	11.5	24.0	16.0	23.5	17.0	23.0	18.0	19.0	12.5
9	17.0	9.0	16.0	11.5	23.5	16.0	24.5	18.5	24.5	18.0	17.0	13.0
10	16.0	8.5	16.5	12.0	21.5	15.5	24.0	17.0	22.0	16.5	16.0	12.0
11	16.0	8.5	17.0	10.0	22.5	15.0	26.0	18.0	23.0	18.0	17.0	13.5
12	16.5	8.5	13.5	10.0	22.5	14.0	26.0	19.5	22.5	16.0	16.0	11.0
13	17.5	8.0	14.5	7.5	22.5	15.0	25.0	19.5	22.5	14.5	16.5	10.0
14	17.5	8.0	17.0	7.0	22.5	15.5	25.0	18.0	22.5	15.0	18.0	12.0
15	18.5	8.5	18.5	9.5	23.0	15.5	26.0	19.0	22.0	15.0	17.0	14.5
16	17.0	9.5	18.0	12.0	23.5	16.0	26.0	19.5	22.0	15.0	18.0	13.5
17	18.0	10.5	19.0	11.5	21.5	16.5	25.5	19.5	22.5	15.0	18.5	13.5
18	16.5	10.0	19.5	11.5	23.5	15.0	26.5	19.5	24.0	17.5	16.0	13.5
19	9.5	7.5	18.5	12.0	24.5	16.5	26.5	20.0	23.0	16.5	15.5	11.5
20	13.5	7.0	19.5	11.5	22.5	16.0	23.5	18.5	22.0	16.5	15.0	13.0
21	10.0	8.0	17.0	13.0	22.0	16.0	24.0	19.5	24.0	17.5	16.0	12.0
22	8.5	6.5	18.0	10.5	23.0	14.5	23.0	17.5	24.0	17.0	16.5	13.0
23	12.5	4.5	17.0	11.5	23.0	14.5	23.0	19.0	23.5	16.5	15.0	9.5
24	15.5	7.0	19.0	11.5	21.5	16.5	22.0	17.5	23.5	15.5	14.5	9.5
25	12.0	8.5	19.5	13.0	20.5	15.5	20.5	17.0	23.0	16.0	15.5	10.0
26	8.0	5.0	20.5	13.5	19.5	12.0	22.0	16.5	22.5	16.5	15.5	9.5
27	14.0	4.5	21.0	13.0	20.5	11.5	24.0	17.5	23.0	18.0	15.0	9.5
28	11.0	9.0	22.0	13.5	21.5	12.5	22.0	18.5	23.0	18.5	14.0	12.5
29	16.5	8.5	19.5	14.0	19.5	13.5	21.0	17.0	24.5	18.0	13.0	9.0
30	18.5	9.0	18.5	12.5	22.0	14.0	22.5	18.0	24.5	18.0	12.0	7.0
31	---	---	17.5	12.5	---	---	23.0	17.5	24.5	17.5	---	---
MONTH	18.5	4.5	22.0	7.0	24.5	11.5	26.5	14.0	24.5	14.5	23.5	7.0
YEAR	26.5	.0										

09372000 McELMO CREEK NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 37°19'27", long 109°00'54", in NE¼ sec.2, T.35 N., R.20 W., Montezuma County, Hydrologic Unit 14080202, on right bank 1.5 mi upstream from Colorado-Utah State line, 2.0 mi upstream from Yellowjacket Creek, and 2.0 mi west of former town of McElmo.

DRAINAGE AREA.--346 mi^2.

PERIOD OF RECORD.--Streamflow records, March 1951 to current year. Water-quality data available, November 1977 to September 1981.

REVISED RECORDS.--WSP 1925: 1951-52(M), 1957(M). WRD Colo. 1972: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,890 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 29, Dec. 2, 4, 7-8, 23-26, Jan. 3, 12, 14-16, Feb. 1-4, 7, 9-10. Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 1,780 acres above station. One diversion above station for irrigation of about 60 acres below. Part of flow is return water from irrigated lands of Montezuma Irrigation District (water imported from Dolores River basin). Several observations of specific-conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--34 years, 47.4 ft^3/s; 34,340 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,040 ft^3/s, Aug. 7, 1967, gage height, 7.58 ft, from floodmark in gage well, from rating curve extended above 2,100 ft^3/s; maximum gage height, 8.13 ft, Sept. 6, 1970; minimum daily discharge, 0.08 ft^3/s, Sept. 9, 10, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 620 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 21	0030	*775	*5.66	No other peak greater than base discharge.			

Minimum daily discharge, 19 ft^3/s, May 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	44	33	71	22	37	86	43	60	30	125	34
2	60	49	34	45	30	42	68	42	71	27	141	35
3	63	50	33	44	34	46	59	40	63	27	151	34
4	170	50	36	44	34	44	50	36	54	35	128	37
5	137	50	37	44	36	43	43	35	54	30	106	37
6	117	51	36	49	37	43	40	28	63	28	100	44
7	90	51	34	50	36	43	39	27	63	36	83	52
8	68	46	36	61	36	42	37	19	63	37	67	101
9	56	39	75	59	34	42	40	20	65	30	61	79
10	49	36	64	49	34	62	46	48	49	32	49	67
11	49	34	55	44	33	160	55	47	50	37	55	84
12	50	30	91	42	33	221	55	44	50	40	58	150
13	83	30	89	34	39	205	49	44	50	32	49	115
14	62	33	79	32	50	113	40	43	52	39	37	95
15	61	36	79	32	62	82	39	43	55	39	39	114
16	67	36	67	32	93	89	39	37	52	36	43	205
17	61	46	61	35	128	99	37	35	57	29	35	123
18	96	49	55	37	126	84	36	40	60	37	36	109
19	84	50	58	40	96	202	46	40	50	46	37	228
20	68	49	61	47	86	209	62	46	47	179	36	202
21	59	53	55	51	83	135	62	40	54	242	40	214
22	59	49	39	59	71	95	70	56	46	211	42	142
23	62	49	30	49	68	78	81	59	53	191	44	108
24	76	53	30	47	55	70	75	59	44	158	49	92
25	78	62	26	47	44	65	47	64	34	132	53	83
26	67	70	34	44	40	61	3[illegible]	[illegible]0	[illegible]3	123	50	81
27	56	43	72	44	36	59	34	56	37	117	47	81
28	47	37	204	44	36	68	37	43	43	102	49	79
29	43	36	226	44	---	84	49	47	43	100	56	100
30	42	34	159	43	---	102	51	49	36	124	46	92
31	42	---	100	29	---	84	---	44	---	156	36	---
TOTAL	2181	1345	2088	1392	1512	2809	1505	1344	1561	2482	1948	3017
MEAN	70.4	44.8	67.4	44.9	54.0	90.6	50.2	43.4	52.0	80.1	62.8	101
MAX	170	70	226	71	128	221	86	70	71	242	151	228
MIN	42	30	26	29	22	37	33	19	34	27	35	34
AC-FT	4330	2670	4140	2760	3000	5570	2990	2670	3100	4920	3860	5980

CAL YR 1984	TOTAL	19227.0	MEAN	52.5	MAX	338	MIN	3.8	AC-FT	38140
WTR YR 1985	TOTAL	23184	MEAN	63.5	MAX	242	MIN	19	AC-FT	45990

TRANSMOUNTAIN DIVERSIONS FROM COLORADO RIVER BASIN IN COLORADO

There are 24 tunnels or ditches, all of which are equipped with water-stage recorders and Parshall flumes or sharp-crested weirs. Records furnished by Colorado Division of Water Resources. The locations and diversions of 8 selected diversions are given in the following list.

09010000 Grand River ditch diverts water from tributaries of Colorado River to La Poudre Pass Creek (tributary to Cache la Poudre River) in NW¼ sec.21, T.6 N., R.75 W., in Platte River basin. Two collection ditches beginning at headgates located in sec.28, T.5 N., R.76 W., and sec.29, T.6 N., R.75 W., intercept all tributaries upstream on each side of the Colorado River and converge at La Poudre Pass.
REVISIONS (WATER YEARS).--WSP 1313: 1912-27.

09013000 Alva B. Adams tunnel diverts water from Grand Lake and Shadow Mountain Lake in NW¼ sec.9, T.3 N., R.75 W., in Colorado River basin, to Lake Estes (Big Thompson River) in sec.30, T.5 N., R.72 W., in Platte River basin. For daily discharge, see elsewhere in this report.

09021500 Berthoud Pass ditch diverts water from tributaries of Fraser River between headgate in sec.33, T.2 S., R.75 W., and Berthoud Pass, in Colorado River basin, to Hoop Creek (tributary to West Fork Clear Creek) in sec.10, T.3 S., R.75 W., in Platte River basin.

09042000 Hoosier Pass tunnel diverts water from tributaries of Blue River in Colorado River basin to Montgomery Reservoir (Middle Fork South Platte River) in sec.14, T.8 S., R.78 W., in Platte River basin; this water is again diverted to South Catamount Creek (tributary to Catamount Creek) in SE¼ sec.14, T.13 S., R.69 W., in the Arkansas River basin. Collection conduits extending from the right bank of Crystal Creek (tributary to Spruce Creek) in sec.14, T.7 S., R.78 W., right bank of Spruce Creek in sec.23, T.7 S., R.78 W., right bank of McCullough Gulch in sec.26, T.7 S., R.78 W., right bank of Monte Cristo Creek in SW¼NE¼ sec.2, T.8 S., R.78 W., left bank of Bemrose Creek in SW¼SW¼ sec.6, T.8 S., R.77 W., and intercepting intermediate tributaries, transport diversions to north portal of the tunnel.

09050590 Harold D. Roberts tunnel diverts water from Dillon Reservoir (Blue River) in sec.18, T.5 S., R.77 W., in Blue River basin, to North Fork South Platte River (tributary to South Platte, River) in SW¼SW¼ sec.4, T.7 S., R.74 W., in Platte River basin. Figures include a small amount of ground-water inflow between Dillon Reservoir and east portal of tunnel.

09063700 Homestake tunnel diverts water from Homestake Lake (Middle Fork Homestake Creek), in sec.17, T.8 S., R.81 W., in Eagle River basin, to Lake Fork in sec.9, T.9 S., R.81 W., in Arkansas River basin. Water is imported to Homestake Lake from tributaries of Homestake Creek by collection conduits that extend from right bank of French Creek in sec.28, T.7 S., R.81 W., and left bank of East Fork Homestake Creek in sec.9, T.8 S., R.81 W., and intercept intermediate tributaries.

09077160 Charles H. Bousted tunnel diverts water from the main stem and tributaries of Fryingpan River (tributary to Roaring Fork River), in Colorado River basin, to Lake Fork in sec.10, T.9 S., R.81 W., in Arkansas River basin. Water is transported to west portal of tunnel (at lat 39°14'44", long 106°31'47"), by a series of collection conduits extending between headgates on right bank of Sawyer Creek at lat 39°15'58", long 106°38'19" and right bank of Fryingpan River at lat 39°14'40", long 106°31'49", and intercepting intermediate tributaries.

09077500 Busk-Ivanhoe tunnel diverts water from Ivanhoe Lake (Ivanhoe Creek), tributary to Fryingpan River in sec.13, T.9 S., R.82 W., in Roaring Fork River basin, to Busk Creek (tributary to Lake Fork) in sec. 20, T.9 S., R.81 W., in Arkansas River basin.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
(SOME PREVIOUSLY UNPUBLISHED DIVERSIONS TO THE ARKANSAS RIVER BASIN ARE INCLUDED IN THIS TABLE)

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
TO PLATTE RIVER BASIN												
09010000	0	0	0	0	0	0	0	1,280	10,540	6,350	2,030	630
Water year 1985, 20,830												
09013000	15,070	14,970	18,100	16,170	20,490	26,480	29,310	33,830	31,910	31,870	26,950	20,020
Water year 1985, 285,200												
09021500	0	0	0	0	0	0	0	0	238	242	72	15
Water year 1985, 567												
09050590	0	0	0	0	0	0	0	0	0	0	0	299
Water year 1985, 299												
TO ARKANSAS RIVER BASIN												
09042000	1,040	0	0	0	0	0	0	798	2,200	1,140	989	1,240
Water year 1985, 7,400												
09063700	0	135	1,090	0	0	2,430	877	0	1,330	2,380	1,800	147
Water year 1985, 10,180												
09077160	0	0	0	0	0	0	0	3,170	39,030	32,170	12,300	771
Water year 1983, 87,440												
09077160	0	0	0	0	0	0	0	21,900	45,770	25,010	12,010	2,950
Water year 1984, 107,600												
09077500	258	0	0	0	0	0	0	113	3,380	4,200	1,230	202
Water year 1983, 9,390												

TRANSMOUNTAIN DIVERSIONS NO LONGER PUBLISHED

Following is a list of Transmountain Diversions no longer being published in this report. Diversions, in acre-feet, for these sites are available from the State of Colorado, Division of Water Resources.

TO PLATTE RIVER BASIN		TO ARKANSAS RIVER BASIN		TO RIO GRANDE BASIN	
09012000	Eureka ditch	09061500	Columbine ditch	09118200	Tarbell ditch
09022500	Moffat Water tunnel	09062000	Ewing ditch	09121000	Tabor ditch
				09341000	Treasure Pass ditch
09046000	Boreas Pass ditch	09062500	Wurtz ditch	09347000	Don LaFont ditches 1&2
09047300	Vidler tunnel	09073000	Twin Lakes tunnel	09348000	Williams Cr-Squaw Pass ditch
		09115000	larkspur ditch	09351000	Pine River-Weminuche Pass ditch
				09351500	Weminuche Pass ditch

CREST-STAGE PARTIAL-RECORD STATIONS

The following table contains annual maximum discharge for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1984

Station number	Station name	Location	Total Drainage area (mi^2)	Non-contributing	Annual maximum: Period of record	Annual maximum: Date	Annual maximum: Gage height (feet)	Annual maximum: Discharge (ft^3/s)
		SAN JUAN RIVER BASIN						
09361400	Junction Creek near Durango, CO	Lat 37°20'04", long 107°54'35", sec.36, T.36N., R.10 W., La Plata County, on left bank 4.5 mi upstream from mouth and 4.5 mi northwest of Durango.	26.3	-	1959-65, 1972, 1979-85	6-6-85[4]	3.43	470

PICEANCE CREEK GAIN-LOSS INVESTIGATIONS--RIO BLANCO TO WHITE RIVER, CO.

A series of discharge measurements and water quality samples were collected March 27, on Piceance Creek and its tributaries, to study channel gains and losses. The study reach is 49.7 mi in length and extends from Rio Blanco, Co to gaging station Piceance Creek at White River (09306222), 0.26 mi from mouth. The study was made in early spring in an effort to measure during base flow conditions. Diurnal fluctuations of the stage hydrographs, from mainstem gaging stations, would indicate that the leading edge of the spring runoff had begun. Flows at gaging station Piceance Creek below Ryan Gulch, near Rio Blanco (09306200), for March 27, ranged from 58 ft^3/s to 74 ft^3/s. Indicated gains and losses may be substantially in error due to small inaccuracies in open-channel measurements and that no corrections were applied for changing stage. Previous gain-loss investigations were made at least once each year 1981-83.

STATION NUMBER	STATION NAME	DATE	TIME	RIVER MILES
394359107563900	PICEANCE C AT HWY 13 NR RIO BLANCO	03-27-85	06:15	49.7
394400107573400	PICEANCE CREEK MOUTH OF CANYON	03-27-85	06:45	48.8
394345107582100	PICEANCE C NR GRAVEL PIT NR RIO BLANCO	03-27-85	07:10	47.8
394404108000600	PICEANCE C AB COW C NR RIO BLANCO	03-27-85	08:00	45.8
394508108005500	PICEANCE CR AB COYOTE GULCH NR RIO BLANCO	03-27-85	08:45	43.8
394712108022000	PICEANCE CREEK ABOVE SCHUTTE GULCH	03-27-85	09:40	40.9
394732108025500	PICEANCE C AT W GORDON GL NR RIO BLANCO	03-27-85	10:15	40.1
394800108035800	PICEANCE CREEK ABOVE 13 MILE CREEK	03-27-85	11:30	38.8
394741108053200	PICEANCE C AB STORY GL NR RIO BLANCO	03-27-85	08:30	37.1
394741108053600	STORY GULCH NR MOUTH NR RIO BLANCO	03-27-85	07:45	--
394742108060800	LAKE OUTLET BL STORY GULCH NR RIO BLANCO	03-27-85	09:00	--
394738108062000	PICEANCE C AT SPRAGUE GL NR RIO BLANCO	03-27-85	09:50	36.4
394848108085300	PICEANCE CREEK ABOVE OLDLAND GULCH	03-27-85	10:25	33.2
09306007	PICEANCE CREEK BELOW RIO BLANCO	03-27-85	11:20	30.9
09306022	STEWART GULCH AB WEST FORK NR RIO BLANCO	03-27-85	11:35	--
394942108120000	PICEANCE CR AB SORGHUM GULCH NR RIO BLANCO	03-27-85	06:40	29.8
395004108130800	PICEANCE CR AB GARDENHIER GULCH NR RIO BLANCO	03-27-85	07:30	28.5
09306042	PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO	03-27-85	08:45	--
09306045	PICEANCE C BL GARDENHIRE GULCH NR RIO BLANCO	03-27-85	09:57	28.3
395026108140400	PICEANCE C AT CB ROAD NR RIO BLANCO	03-27-85	11:00	27.4
09306058	WILLOW CREEK NEAR RIO BLANCO	03-27-85	11:50	--
09306061	PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO	03-27-85	14:05	25.4
395057108155400	HUNTER C AB PICEANCE C NR RIO BLANCO	03-27-85	13:50	--
395105108155200	PICEANCE CR BL HUNTER CR NR RIO BLANCO	03-27-85	07:10	24.9
395217108170900	PICEANCE C AB BLACK SULPHUR C NR RIO BLANCO	03-27-85	07:57	22.5
09306175	BLACK SULPHUR CREEK NEAR RIO BLANCO	03-27-85	09:20	--
395329108173100	PICEANCE CR BL HOGLOT DRAW NR RIO BLANCO	03-27-85	10:15	20.8
395420108174800	PICEANCE CR AB RYAN GULCH NR RIO BLANCO	03-27-85	14:00	19.7
09306200	PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO	03-27-85	14:16	18.1
395649108165500	PICEANCE CREEK ABOVE LEE GULCH	03-27-85	15:20	15.6
395754108160000	PICEANCE C AT BEAR GL NR WHITE RIVER	03-27-85	06:35	13.7
395846108151200	PICEANCE CREEK BELOW BEAR GULCH	03-27-85	07:20	12.1
400030108144500	PICEANCE C AB DRY FORK NR WHITE RIVER	03-27-85	08:05	9.0
400031108144500	DRY FORK AB PICEANCE C NR WHITE RIVER	03-27-85	09:05	--
400211108153500	PICEANCE CR AB ALKALI FLAT NR WHITE RIVER	03-27-85	09:45	5.9
400317108145500	PICEANCE C BL ALKALI FLATS NR WHITE RIVER	03-27-85	11:20	4.0
400439108140800	PICEANCE CREEK AT PICEANCE CR HIGHWAY	03-27-85	12:00	1.3
09306222	PICEANCE CREEK AT WHITE RIVER	03-27-85	12:45	0.3

PICEANCE CREEK GAIN-LOSS INVESTIGATIONS--continued

STATION NUMBER	STREAM-FLOW, INSTAN-TANEOUS (ft^3/s)	GAIN OR LOSS (ft^3/s)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
394359107563900	5.3	--	879	8.4	0.0	--	370	93	34
394400107573400	6.4	+ 1.1	--	--	--	--	--	--	--
394345107582100	9.8	+ 3.4	--	--	--	--	--	--	--
394404108000600	8.0	- 1.8	955	8.5	0.5	--	360	84	37
394508108005500	8.0	0.0	956	8.6	0.5	--	360	82	37
394712108022000	13	+ 5.0	938	8.4	2.5	--	360	80	38
394732108025500	13	0.0	935	8.5	3.5	--	350	80	37
394800108035800	17	+ 4.0	963	8.6	4.0	--	360	78	40
394741108053200	19	+ 2.0	974	8.4	2.0	--	350	74	39
394741108053600	2.4	--	--	--	--	--	--	--	--
394742108060800	2.2	--	--	--	--	--	--	--	--
394738108062000	24	+ 0.4	997	8.4	3.5	--	--	--	--
394848108085300	27	+ 3.0	--	--	--	--	--	--	--
09306007	29	+ 2.0	1020	8.4	5.0	9.8	360	74	42
09306022	4.3	--	1290	8.3	8.0	9.6	460	80	63
394942108120000	44	+10.7	--	--	--	--	--	--	--
395004108130800	44	0.0	1070	8.4	3.0	--	380	76	46
09306042	0.3	--	2180	9.1	4.0	7.6	--	12	>5.0
09306045	42	- 2.3	1110	8.4	4.0	9.9	370	72	45
395026108140400	43	+ 1.0	1120	8.4	4.5	--	--	--	--
09306058	5.7	--	1250	8.6	5.0	9.4	510	96	65
09306061	45	- 3.7	1130	8.5	5.0	9.4	390	75	50
395057108155400	4.0	--	--	--	--	--	--	--	--
395105108155200	61	+12.0	--	--	--	--	--	--	--
395217108170900	59	- 2.0	1150	8.4	4.0	--	350	65	44
09306175	13	--	--	--	--	--	--	--	--
395329108173100	74	+ 2.0	1370	8.4	4.0	--	360	66	48
395420108174800	78	+ 4.0	1210	8.5	4.5	--	--	--	--
09306200	69	- 9.0	1210	8.5	4.5	9.7	450	82	59
395649108165500	72	+ 3.0	--	--	--	--	--	--	--
395754108160000	85	+13.0	--	--	--	--	--	--	--
395846108151200	80	- 5.0	--	--	--	--	--	--	--
400030108144500	86	+ 6.0	1200	8.6	4.0	--	400	73	52
400031108144500	4.8	--	--	--	--	--	--	--	--
400211108153500	88	- 2.8	1230	8.6	4.0	--	--	--	--
400317108145500	98	+10.0	1330	8.6	4.5	--	--	--	--
400439108140800	93	- 5.0	--	--	--	--	--	--	--
09306222	95	+ 2.0	1340	8.5	5.0	8.3	410	71	57

PICEANCE CREEK GAIN-LOSS INVESTIGATIONS--continued

STATION NUMBER	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
394359107563900	63	1	3.2	259	250	12	0.1	11	620
394400107573400	--	--	--	--	--	--	--	--	--
394345107582100	--	--	--	--	--	--	--	--	--
394404108000600	83	2	3.3	283	230	14	0.2	12	630
394508108005500	83	2	3.1	274	230	15	0.2	12	630
394712108022000	76	2	2.7	287	210	13	0.2	13	610
394732108025500	76	2	2.7	288	200	13	0.2	13	600
394800108035800	83	2	3.0	299	220	16	0.2	12	630
394741108053200	91	2	2.9	317	190	13	0.3	13	610
394741108053600	--	--	--	--	--	--	--	--	--
394742108060800	--	--	--	--	--	--	--	--	--
394738108062000	--	--	1.8	310	210	16	0.4	--	--
394848108085300	--	--	--	--	--	--	--	--	--
09306007	96	2	2.9	329	200	14	0.5	13	640
09306022	110	2	1.1	314	350	8.0	0.4	13	810
394942108120000	--	--	--	--	--	--	--	--	--
395004108130800	98	2	2.9	361	240	14	0.4	13	710
09306042	560	--	1.3	1130	30	8.8	17	12	--
09306045	100	2	2.7	320	240	14	0.5	13	680
395026108140400	--	--	2.4	--	240	14	0.6	11	--
09306058	100	2	1.4	368	300	11	0.3	16	810
09306061	110	2	2.7	434	250	13	0.6	13	770
395057108155400	--	--	--	--	--	--	--	--	--
395105108155200	--	--	--	--	--	--	--	--	--
395217108170900	92	2	2.4	283	260	13	0.5	12	660
09306175	--	--	--	--	--	--	--	--	--
395329108173100	93	2	2.1	317	280	13	0.5	12	710
395420108174800	--	--	2.1	458	280	14	0.6	10	--
09306200	120	3	2.6	474	280	14	0.5	14	860
395649108165500	--	--	--	--	--	--	--	--	--
395754108160000	--	--	--	--	--	--	--	--	--
395846108151200	--	--	--	--	--	--	--	--	--
400030108144500	100	2	2.4	456	290	13	0.5	13	--
400031108144500	--	--	--	--	--	--	--	--	--
400211108153500	--	--	--	--	270	15	0.5	11	--
400317108145500	--	--	2.7	552	260	20	0.6	13	--
400439108140800	--	--	--	--	--	--	--	--	--
09306222	170	4	2.7	555	210	16	0.5	13	880

PICEANCE CREEK GAIN-LOSS INVESTIGATIONS--continued

STATION NUMBER	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)
394359107563900	0.85	8.9	0.35	0.06	0.6	0.02	50	540
394400107573400	--	--	--	--	--	--	--	--
394345107582100	--	--	--	--	--	--	--	--
394404108000600	0.86	14	0.67	0.06	0.5	0.02	50	580
394508108005500	0.85	14	0.94	0.06	0.6	0.02	50	600
394712108022000	0.82	21	1.50	0.06	0.6	0.02	60	820
394732108025500	0.81	21	1.50	0.05	0.8	0.01	60	820
394800108035800	0.86	29	1.30	0.06	0.7	0.02	70	760
394741108053200	0.83	32	1.10	0.06	0.3	0.02	80	810
394741108053600	--	--	--	--	--	--	--	--
394742108060800	--	--	--	--	--	--	--	--
394738108062000	--	--	1.40	0.07	0.5	0.02	100	680
394848108085300	--	--	--	--	--	--	--	--
09306007	0.87	50	1.20	0.08	0.5	0.04	100	--
09306022	1.1	9.5	1.90	0.05	0.2	0.01	80	--
394942108120000	--	--	--	--	--	--	--	--
395004108130800	0.96	84	1.20	0.07	0.2	0.03	110	1300
09306042	--	--	0.62	0.04	0.1	0.01	680	--
09306045	0.92	77	1.30	0.08	0.5	0.03	110	--
395026108140400	--	--	1.30	0.10	0.4	0.03	120	1100
09306058	1.1	12	1.10	0.06	0.4	0.01	120	--
09306061	1.1	94	1.20	0.08	0.4	0.03	120	--
395057108155400	--	--	--	--	--	--	--	--
395105108155200	--	--	--	--	--	--	--	--
395217108170900	0.9	104	1.20	0.08	0.6	0.03	110	1400
09306175	--	--	--	--	--	--	--	--
395329108173100	0.96	141	1.20	0.07	0.6	0.03	110	1600
395420108174800	--	--	1.10	0.05	0.5	0.04	110	1400
09306200	1.2	160	1.10	0.08	0.2	0.03	110	1900
395649108165500	--	--	--	--	--	--	--	--
395754108160000	--	--	--	--	--	--	--	--
395846108151200	--	--	--	--	--	--	--	--
400030108144500	--	--	1.20	0.07	0.2	0.08	110	1800
400031108144500	--	--	--	--	--	--	--	--
400211108153500	--	--	1.20	0.06	0.3	0.04	120	1400
400317108145500	--	--	0.95	0.07	0.3	0.05	140	1800
400439108140800	--	--	--	--	--	--	--	--
09306222	1.2	224	1.10	0.09	0.3	0.02	110	1800

GREEN RIVER BASIN

Water-quality partial-record stations are particular sites where chemical-quality, biological and/or sediment data are collected systematically over a period of years for use in hydrologic analysis.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
401540106502801 L. MORRISON C AB DAM SITE NR OAK CREEK, CO (LAT 40 15 40N LONG 106 50 28W)								
NOV 1984								
21...	11:45	0.53	290	8.4	0.0	12.3	16	0.02
MAY 1985								
02...	13:15	5.6	149	8.2	10.0	8.7	146	2.2
JUN								
05...	12:30	2.2	133	8.1	13.0	8.0	38	0.22
JUL								
10...	11:30	0.35	208	8.0	17.0	7.8	7	0.01
AUG								
12...	11:35	0.45	205	8.0	13.0	8.9	11	0.01
SEP								
27...	11:15	0.22	209	8.1	4.0	9.6	24	0.01
401608106513001 MIDDLE C AB DAM SITE NR OAK CREEK, CO (LAT 40 16 08N LONG 106 51 30W)								
NOV 1984								
21...	11:30	0.05	470	8.2	0.5	11.1	110	0.02
MAY 1985								
02...	12:35	1.5	306	8.2	7.5	8.5	103	0.42
JUN								
05...	11:30	0.42	436	8.1	9.0	7.9	171	0.19
JUL								
10...	11:15	0.07	461	8.0	11.5	8.1	103	0.02
AUG								
12...	11:20	0.09	433	8.1	9.0	9.0	179	0.04
SEP								
27...	11:00	0.08	443	8.4	3.0	10.0	8	0.0
401609106525201 YAMPA R AB DAM SITE NR OAK CREEK, CO (LAT 40 16 09N LONG 106 52 52W)								
NOV 1984								
21...	12:55	52	385	8.5	0.0	11.3	19	2.7
MAY 1985								
02...	11:15	281	436	8.5	7.5	9.1	329	250
JUN								
05...	10:45	181	379	8.4	10.5	8.5	135	66
JUL								
10...	10:45	103	479	8.2	15.0	8.2	58	16
AUG								
12...	10:50	111	429	8.2	11.5	8.9	97	29
SEP								
27...	10:40	87	331	8.4	5.0	9.9	25	5.8
401729106514601 MARTIN C AB DAM SITE NR OAK CREEK, CO (LAT 40 17 29N LONG 106 51 46W)								
NOV 1984								
21...	11:15	0.05	397	7.6	1.0	9.8	48	0.01
MAY 1985								
02...	13:40	2.1	194	8.2	21.0	7.2	25	0.14
JUN								
05...	13:00	1.4	161	7.7	18.0	7.7	18	0.07
JUL								
10...	11:45	0.29	151	7.2	16.5	6.4	12	0.01
AUG								
12...	12:20	0.07	368	7.7	13.5	7.1	27	0.0
SEP								
27...	11:30	0.33	273	8.1	7.0	8.4	8	0.01

GREEN RIVER BASIN

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
394714108150101 CB S-10A SC00309714CAC (LAT 39 47 14N LONG 108 15 01W)						
NOV 1984						
01...	12:25	0.32	1330	7.9	5.5	9.9
JAN 1985						
03...	12:30	0.45	1360	7.6	4.0	5.6
FEB						
06...	12:45	0.33	1360	7.9	3.0	6.2
MAR						
08...	13:00	0.3	1330	8.1	5.0	10.6
APR						
12...	13:30	0.34	1320	8.3	13.0	6.0
MAY						
07...	13:00	0.47	1330	8.1	12.5	7.9
JUL						
15...	10:30	0.53	1270	8.0	16.0	11.2
394750108145201 CB S9 SC00309711CDD (LAT 39 47 50N LONG 108 14 52W)						
NOV 1984						
01...	12:38	--	1390	7.6	9.0	6.2
JAN 1985						
03...	12:45	0.0	--	--	--	--
FEB						
06...	13:00	0.2	1410	7.8	8.0	4.7
MAR						
08...	13:10	0.19	1380	7.7	10.5	8.1
APR						
12...	13:45	0.18	1400	7.9	12.0	4.5
MAY						
07...	13:00	0.2	1380	7.8	11.0	7.2
JUL						
15...	10:50	0.2	1400	7.5	10.0	7.4
394802108101201 CB-S4 SC00309609DBDC (LAT 39 48 02N LONG 108 10 12W)						
NOV 1984						
01...	09:37	2.9	1200	7.7	9.0	8.7
JAN 1985						
03...	09:40	2.8	1220	7.6	8.5	7.8
FEB						
06...	10:05	1.3	1230	7.8	6.0	7.6
MAR						
08...	10:30	1.1	1230	7.8	8.5	9.2
APR						
12...	11:00	0.9	1220	7.9	--	7.7
MAY						
07...	10:30	1.6	1230	7.8	8.5	8.0
JUL						
11...	10:30	0.15	1290	7.7	9.5	8.3
394804108101800 SC00309609DBCC (LAT 39 48 04N LONG 108 10 18W)						
NOV 1984						
01...	10:07	0.14	1230	7.6	9.0	8.7
JAN 1985						
03...	10:00	0.11	1250	7.7	7.5	8.8
FEB						
06...	09:43	0.1	1240	7.9	9.5	7.6
MAR						
08...	10:40	0.12	1230	7.8	8.0	9.4
APR						
12...	11:15	0.07	1230	7.8	8.0	7.3
MAY						
07...	10:30	0.1	1230	7.8	8.5	7.7
JUL						
11...	10:10	0.15	1290	7.7	9.5	8.3
394839108105101 STEWART GL SPRING CB S101 (LAT 39 48 39N LONG 108 10 51W)						
NOV 1984						
01...	10:22	6.1	1350	8.0	7.5	9.1
JAN 1985						
03...	10:20	4.6	1350	8.0	5.0	10.4
FEB						
06...	10:20	4.7	1350	8.2	5.0	9.4
MAR						
08...	11:00	4.4	1310	8.2	8.5	10.8
APR						
12...	11:30	3.4	1320	8.4	12.0	8.4
MAY						
07...	10:45	7.3	1330	8.4	10.0	8.5
JUL						
11...	11:30	11	1370	8.0	12.0	9.4

GREEN RIVER BASIN

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
394859108144501 CB S8 SC00309702DBC (LAT 39 48 59N LONG 108 14 45W)						
NOV 1984						
01...	12:53	0.01	1450	7.4	9.0	4.6
JAN 1985						
03...	13:00	0.0	--	--	--	--
FEB						
06...	13:10	0.0	--	--	--	--
MAR						
08...	13:25	0.0	--	--	--	--
APR						
12...	14:00	0.0	--	--	--	--
MAY						
07...	13:30	0.24	1400	7.6	9.0	3.3
JUL						
15...	11:00	0.38	1420	7.5	9.0	5.6
394930108110101 SC00309605AAA1 (S-1) (LAT 39 49 30N LONG 108 11 01W)						
NOV 1984						
01...	10:39	4.2	1360	7.5	8.0	5.8
JAN 1985						
03...	10:50	2.6	1370	7.6	7.5	6.4
FEB						
06...	11:30	2.1	1360	7.8	8.0	4.0
MAR						
08...	11:25	1.9	1360	7.7	8.0	7.1
APR						
12...	12:00	1.9	1360	8.0	7.5	6.4
MAY						
07...	11:15	2.5	1350	7.7	8.0	6.8
JUL						
11...	12:00	1.7	1420	7.6	12.0	7.0
394933108110901 SC00309605AAB1 (S-1B) (LAT 39 49 33N LONG 108 11 09W)						
NOV 1984						
01...	10:52	1.9	1390	7.5	8.5	5.4
JAN 1985						
03...	11:05	2.7	--	--	8.0	5.5
FEB						
06...	11:45	0.93	1470	7.7	7.0	5.8
MAR						
08...	11:35	0.88	1490	7.6	8.5	7.0
APR						
12...	12:15	0.93	1450	7.7	8.0	6.5
MAY						
07...	11:30	1.5	1380	7.9	8.0	6.9
JUL						
11...	12:30	12	1450	7.5	9.0	6.2
395010108133100 SC00209736ACB1 (LAT 39 50 10N LONG 108 13 31W)						
NOV 1984						
01...	11:18	0.44	1620	7.6	10.5	5.7
JAN 1985						
03...	14:05	0.34	1760	7.8	10.5	6.2
FEB						
06...	11:25	0.32	1760	7.9	9.0	6.2
MAR						
08...	12:10	0.32	1750	7.8	9.0	6.4
APR						
12...	12:45	0.37	1740	8.0	9.5	4.1
MAY						
07...	12:00	0.4	1730	8.0	6.5	4.0
JUL						
11...	14:00	0.32	1740	7.8	8.0	6.1
395012108133301 CB S102 SC00209736ACB (LAT 39 50 12N LONG 108 13 33W)						
NOV 1984						
01...	11:11	--	1610	7.9	11.0	9.0
JAN 1985						
03...	14:15	0.38	1750	7.9	9.0	7.9
FEB						
07...	11:17	0.38	1730	8.2	9.5	10.4
MAR						
08...	12:05	0.36	1730	8.0	10.0	10.8
APR						
12...	12:30	0.39	1720	8.4	10.5	7.6
MAY						
07...	12:00	0.41	1730	8.2	10.0	6.7
JUL						
11...	14:00	0.16	1730	8.0	11.0	8.2

GREEN RIVER BASIN

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
395021108143101 W14 SC0029735AABD (LAT 39 50 21N LONG 108 14 31W)						
NOV 1984						
01...	13:00	0.26	1430	7.6	9.0	--
JAN 1985						
03...	13:43	0.18	1460	7.4	8.5	6.0
FEB						
06...	14:30	0.14	1450	7.7	8.0	5.0
MAR						
08...	13:40	0.25	1430	7.6	11.0	7.5
APR						
15...	10:30	0.17	1440	7.7	12.0	7.8
MAY						
07...	14:45	0.16	1400	7.8	9.0	5.8
JUL						
15...	11:15	0.36	1430	7.5	10.0	3.9
395029108143801 CB-S6A SC0029726DCDA (LAT 39 50 29N LONG 108 14 38W)						
NOV 1984						
01...	13:10	0.0	--	--	--	--
MAY 1985						
07...	14:30	9.4	1220	8.4	17.5	6.8
JUL						
15...	12:10	1.7	1350	8.0	10.0	4.3
395031108144001 SC0029726DCD1 (W-1) (LAT 39 50 31N LONG 108 14 40W)						
NOV 1984						
01...	13:13	2.8	1440	7.4	10.0	3.9
JAN 1985						
03...	13:15	3.0	1440	7.4	10.0	4.4
FEB						
06...	13:50	0.41	1440	7.6	9.0	6.2
MAR						
08...	14:15	0.38	1360	7.6	10.0	5.7
APR						
15...	10:00	0.22	1430	7.5	--	3.6
MAY						
07...	14:45	--	1400	7.6	10.0	3.0
JUL						
15...	12:15	1.7	1460	7.4	16.0	7.5

GREEN RIVER BASIN

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
394714108150101 CB S-10A SC00309714CAC (LAT 39 47 14N LONG 108 15 01W)											
JUN 1985											
13...	10:00	0.52	1280	8.0	12.5	10.8	390	35	72	120	3
AUG											
14...	10:15	0.5	1270	8.2	11.5	10.4	500	83	70	110	2
394750108145201 CB S9 SC00309711CDD (LAT 39 47 50N LONG 108 14 52W)											
JUN 1985											
13...	10:15	0.14	1370	7.7	10.0	6.7	560	100	75	120	2
AUG											
14...	10:30	0.21	1380	7.8	9.0	6.2	570	100	77	120	2
394802108101201 CB-S4 SC00309609DBDC (LAT 39 48 02N LONG 108 10 12W)											
JUN 1985											
12...	10:30	2.3	1240	7.9	9.0	10.0	470	81	65	110	2
AUG											
13...	09:00	0.16	1250	7.8	8.5	8.4	520	92	70	110	2
394804108101800 SC00309609DBCC (LAT 39 48 04N LONG 108 10 18W)											
JUN 1985											
12...	10:10	0.14	1250	7.9	9.5	9.5	500	84	70	110	2
AUG											
13...	08:40	12	1260	7.8	17.0	8.1	500	85	70	110	2
394839108105101 STEWART GL SPRING CB S101 (LAT 39 48 39N LONG 108 10 51W)											
JUN 1985											
12...	11:55	6.9	1330	8.2	12.0	8.5	520	89	72	130	3
AUG											
13...	09:40	13	1330	8.1	8.5	4.7	530	92	72	120	2
394859108144501 CB S8 SC00309702DBC (LAT 39 48 59N LONG 108 14 45W)											
JUN 1985											
13...	10:30	0.28	1380	7.6	8.5	5.4	560	99	76	120	2
AUG											
14...	11:10	0.14	1390	7.7	9.0	4.8	570	100	77	120	2
394930108110101 SC00309605AAA1 (S-1) (LAT 39 49 30N LONG 108 11 01W)											
JUN 1985											
12...	13:10	1.0	1380	7.8	9.0	8.5	530	86	75	120	2
AUG											
14...	08:36	1.9	1400	7.9	8.0	6.7	550	92	78	130	2
394933108110901 SC00309605AAB1 (S-1B) (LAT 39 49 33N LONG 108 11 09W)											
JUN 1985											
12...	13:30	3.3	1430	7.7	8.0	8.6	570	90	82	140	3
AUG											
14...	09:00	6.8	1440	7.9	8.5	6.4	560	91	79	130	2
395010108133100 SC00209736ACB1 (LAT 39 50 10N LONG 108 13 31W)											
JUN 1985											
12...	14:00	0.4	1660	7.8	7.0	7.5	260	44	37	330	9
AUG											
14...	09:40	0.32	1750	8.0	8.0	5.2	240	41	34	340	10
395012108133301 CB S102 SC00209736ACB (LAT 39 50 12N LONG 108 13 33W)											
JUN 1985											
12...	14:00	0.32	1650	8.1	11.0	11.0	250	41	36	320	9
AUG											
14...	09:30	0.28	1740	8.2	9.0	8.5	250	42	36	350	10

ANALYSES OF WATER-QUALITY SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS--continued

GREEN RIVER BASIN

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	BORON, DISSOLVED (UG/L AS B)	STRONTIUM, DISSOLVED (UG/L AS SR)
394714108150101 CB S-10A SC00309714CAC (LAT 39 47 14N LONG 108 15 01W)											
JUN 1985											
13...	0.8	332	330	9.2	0.3	15	780	1.1	1.1	130	2900
AUG											
14...	1.9	420	300	11	0.4	10	840	1.1	1.1	110	2600
394750108145201 CB S9 SC00309711CDD (LAT 39 47 50N LONG 108 14 52W)											
JUN 1985											
13...	1.0	372	350	11	0.4	17	900	1.2	0.34	80	3400
AUG											
14...	1.2	457	330	11	0.4	17	930	1.3	0.54	110	3400
394802108101201 CB-S4 SC00309609DBDC (LAT 39 48 02N LONG 108 10 12W)											
JUN 1985											
12...	0.8	344	310	11	0.2	16	800	1.1	5.0	80	2800
AUG											
13...	1.1	354	320	11	0.2	15	830	1.1	0.36	80	2900
394804108101800 SC00309609DBCC (LAT 39 48 04N LONG 108 10 18W)											
JUN 1985											
12...	0.7	365	320	11	0.2	16	830	1.1	0.32	90	3000
AUG											
13...	1.0	354	320	11	0.2	15	830	1.1	27	90	3000
394839108105101 STEWART GL SPRING CB S101 (LAT 39 48 39N LONG 108 10 51W)											
JUN 1985											
12...	1.1	270	350	10	0.2	16	830	1.1	16	80	2800
AUG											
13...	1.3	381	360	9.9	0.3	15	900	1.2	32	80	2600
394859108144501 CB S8 SC00309702DBC (LAT 39 48 59N LONG 108 14 45W)											
JUN 1985											
13...	1.5	458	340	12	0.4	18	950	1.3	0.71	110	3500
AUG											
14...	1.8	454	350	11	0.5	18	950	1.3	0.36	130	3500
394930108110101 SC00309605AAA1 (S-1) (LAT 39 49 30N LONG 108 11 01W)											
JUN 1985											
12...	1.4	403	390	10	0.3	15	940	1.3	2.5	90	2800
AUG											
14...	1.6	416	370	9.9	0.3	16	950	1.3	5.0	90	2900
394933108110901 SC00309605AAB1 (S-1B) (LAT 39 49 33N LONG 108 11 09W)											
JUN 1985											
12...	1.7	367	410	10	0.2	16	970	1.3	8.7	90	3000
AUG											
14...	2.1	420	400	9.9	0.5	17	980	1.3	18	100	2900
395010108133100 SC00209736ACB1 (LAT 39 50 10N LONG 108 13 31W)											
JUN 1985											
12...	1.5	751	110	11	11	18	1000	1.4	1.1	520	1500
AUG											
14...	1.8	810	110	10	2.0	18	1000	1.4	0.9	570	1500
395012108133301 CB S102 SC00209736ACB (LAT 39 50 12N LONG 108 13 33W)											
JUN 1985											
12...	1.5	767	110	11	11	17	1000	1.4	0.87	510	1500
AUG											
14...	1.9	483	110	11	11	18	870	1.2	0.66	570	1500

GREEN RIVER BASIN

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
395021108143101 W14 SC0029735AABD (LAT 39 50 21N LONG 108 14 31W)											
JUN 1985											
13...	10:45	0.36	1400	7.6	10.0	3.5	550	90	78	130	2
AUG											
14...	11:00	0.2	1400	7.7	9.5	4.5	570	96	79	130	2
395029108143801 CB-S6A SC0029726DCDA (LAT 39 50 29N LONG 108 14 38W)											
JUN 1985											
13...	11:15	4.4	--	8.4	13.0	8.8	490	92	63	100	2
AUG											
14...	11:30	0.33	1460	7.7	11.0	3.0	570	95	80	130	2
395031108144001 SC00209726DCD1 (W-1) (LAT 39 50 31N LONG 108 14 40W)											
JUN 1985											
13...	11:30	0.58	1410	7.6	9.0	4.2	550	90	78	130	2
AUG											
14...	11:40	0.84	1400	7.7	10.0	1.6	560	92	79	130	2

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	BORON, DIS-SOLVED (UG/L AS B)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)
395021108143101 W14 SC0029735AABD (LAT 39 50 21N LONG 108 14 31W)											
JUN 1985											
13...	1.4	389	350	12	0.4	18	920	1.2	0.89	120	3500
AUG											
14...	1.7	467	340	13	0.5	18	960	1.3	0.52	150	3500
395029108143801 CB-S6A SC0029726DCDA (LAT 39 50 29N LONG 108 14 38W)											
JUN 1985											
13...	1.2	305	310	12	0.3	17	780	1.1	9.3	110	2300
AUG											
14...	4.2	463	350	17	0.6	20	980	1.3	0.87	150	3400
395031108144001 SC00209726DCD1 (W-1) (LAT 39 50 31N LONG 108 14 40W)											
JUN 1985											
13...	1.9	344	340	12	0.5	20	880	1.2	1.4	130	3400
AUG											
14...	2.6	455	320	14	<0.1	20	930	1.3	2.1	140	3400

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)
09165000 DOLORES RIVER BELOW RICO, CO. (LAT 37 38 20N LONG 108 03 35W)									
OCT 1984					JUN 1985				
26...	15:55	86	402	6.0	11...	10:55	1070	112	6.0
DEC					JUL				
19...	13:55	43	390	1.0	09...	17:20	185	321	13.0
JAN 1985					AUG				
21...	08:50	35	450	0.0	06...	09:50	92	304	10.5
MAR					SEP				
13...	11:05	24	468	0.0	25...	15:25	119	332	6.0
MAY									
06...	14:10	630	166	7.0					
29...	15:00	843	128	8.0					
09166500 DOLORES RIVER AT DOLORES, CO. (LAT 37 28 16N LONG 108 30 15W)									
NOV 1984					MAY 1985				
30...	13:00	97	500	0.0	06...	12:15	3320	171	6.0
JAN 1985					30...	09:00	3060	120	5.0
25...	11:15	89	440	0.0	JUN				
MAR					11...	08:40	3240	120	7.0
11...	12:55	416	269	1.0	JUL				
APR					23...	12:35	535	228	16.0
08...	09:15	1420	238	3.0					
09166950 LOST CANYON CREEK NEAR DOLORES, CO. (LAT 37 26 45N LONG 108 28 03W)									
NOV 1984					APR 1985				
30...	13:50	1.0	250	0.0	08...	06:35	336	64	1.5
JAN 1985					10...	06:50	384	55	2.0
25...	12:30	1.4	230	0.0	MAY				
MAR					06...	09:45	306	60	6.0
11...	11:30	102	107	0.5	30...	10:15	26	94	10.5
					JUL				
					23...	13:35	0.05	110	24.0
09168100 DISAPPOINTMENT CREEK NEAR DOVE CREEK, CO. (LAT 37 52 36N LONG 108 34 57W)									
NOV 1984					JUN 1985				
01...	09:50	15	2670	3.5	14...	12:35	59	1250	18.0
DEC					JUL				
18...	11:40	8.6	3000	0.0	08...	09:55	10	2660	19.0
JAN 1985					AUG				
22...	14:10	7.9	3000	0.0	07...	14:35	7.2	3700	24.5
MAR					SEP				
14...	15:35	66	2250	7.0	12...	13:25	9.2	6800	15.5
MAY									
08...	08:20	258	1100	7.0					
09172500 SAN MIGUEL RIVER NEAR PLACERVILLE, CO. (LAT 38 02 05N LONG 108 07 15W)									
NOV 1984					JUN 1985				
14...	13:30	148	350	5.0	13...	13:45	1470	261	14.0
DEC					JUL				
19...	09:10	87	470	0.0	09...	11:45	724	379	13.5
JAN 1985					AUG				
21...	14:25	84	460	0.0	06...	13:10	311	304	15.0
MAR					SEP				
13...	17:00	105	447	5.0	11...	12:00	157	400	9.0
MAY									
06...	16:55	818	245	7.0					
29...	12:15	1040	261	8.0					
09177000 SAN MIGUEL RIVER AT URAVAN, CO. (LAT 38 21 26N LONG 108 42 44W)									
NOV 1984					MAY 1985				
02...	07:40	220	944	4.0	07...	11:40	2840	298	10.0
DEC					28...	18:40	1970	310	13.5
18...	16:40	138	850	2.0	JUN				
JAN 1985					13...	17:15	1860	269	18.0
21...	16:50	152	900	1.0	JUL				
MAR					09...	08:35	624	576	17.0
14...	13:00	337	624	8.0	AUG				
APR					06...	17:15	292	660	25.0
15...	14:05	2740	278	10.0	SEP				
					11...	16:55	112	1210	15.5
09236000 BEAR RIVER NEAR TOPONAS, CO. (LAT 40 02 38N LONG 107 04 18W)									
MAR 1985									
20...	09:30	--	113	0.5					

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)
09238700 FISH CR TRIB AB LONG LK, NR BUFFALO PASS, CO. (LAT 40 28 24N LONG 106 40 46W				
JUN 1985				
25...	15:30	6.6	16	13.5
09238710 FISH C TRIB BL LONG LK, NR BUFFLAO PASS, CO. (LAT 40 28 36N LONG 106 41 13W)				
JUN 1985				
25...	19:05	16	17	11.5
09238750 MD FK FISH C NR BUFFALO PASS, CO. (LAT 40 29 54N LONG 106 41 30W)				
JUL 1985				
02...	15:00	4.1	17	15.0
09238770 GRANITE C NR BUFFALO PASS, CO. (LAT 40 29 35N LONG 106 41 31W)				
JUL 1985				
02...	08:45	18	17	6.0
09238800 MID FK FISH CR TRIB BL FISH CR RESERVOIR, CO (LAT 40 29 50N LONG 106 41 54W)				
JUL 1985				
01...	17:30	26	15	14.5
09239500 YAMPA RIVER AT STEAMBOAT SPRINGS, CO. (LAT 40 29 01N LONG 106 49 54W)				
FEB 1985				
25...	10:05	130	--	0.5
MAR 1985				
25...	13:15	294	--	2.0
09241000 ELK RIVER AT CLARK, CO. (LAT 40 43 03N LONG 106 54 55W)				
JUL 1985				
02...	11:00	499	40	9.0
09244410 YAMPA RIVER BELOW DIVERSION, NEAR HAYDEN, CO. (LAT 40 29 18N LONG 107 09 33W				
APR 1985				
17...	14:30	3930	288	8.0
JUL				
08...	12:20	730	168	19.0
AUG 1985				
06...	12:00	436	279	19.0
SEP				
10...	13:00	139	372	17.0
09245000 ELKHEAD CREEK NEAR ELKHEAD, CO. (LAT 40 40 11N LONG 107 17 05W)				
MAR 1985				
19...	11:45	19	414	0.5
MAY 1985				
20...	11:30	300	151	7.5
09246920 FORTIFICATION CREEK NR. FORTIFICATION, CO (LAT 40 44 38N LONG 107 32 25W)				
OCT 1984				
31...	08:47	6.0	540	3.5
NOV				
13...	11:45	5.4	--	3.5
DEC				
11...	12:10	4.5	497	0.5
MAR 1985				
21...	12:16	76	344	2.0
APR 1985				
07...	10:50	42	--	6.5
09...	14:45	112	283	7.5
23...	11:30	36	507	5.5
MAY				
20...	12:00	56	167	9.5
JUL				
01...	11:30	6.4	243	18.0
30...	15:05	3.2	--	20.0
09247600 YAMPA RIVER BELOW CRAIG, CO. (LAT 40 28 51N LONG 107 36 49W)				
OCT 1984				
24...	13:30	539	--	4.5
NOV				
20...	11:20	409	736	0.5
JAN 1985				
24...	12:45	330	760	0.0
APR				
30...	11:25	5660	370	9.0
MAY				
08...	15:40	8970	245	10.5
JUN 1985				
06...	13:30	4900	133	12.5
19...	14:15	3970	129	15.5
JUL				
29...	16:00	805	361	20.0
AUG				
28...	13:20	189	502	21.5
SEP				
09...	16:30	204	539	18.5
23...	13:00	271	540	10.5

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)
09250000 MILK CREEK NEAR THORNBURGH, CO. (LAT 40 11 37N LONG 107 43 54W)				
APR 1985				
16...	11:45	201	464	6.0
MAY				
22...	09:00	291	398	6.0
JUL 1985				
03...	09:43	22	990	17.0
31...	10:00	11	1150	17.0
SEP				
09...	13:55	3.1	1180	19.0
09250507 WILSON CREEK ABOVE TAYLOR CREEK NEAR AXIAL, CO. (LAT 40 18 53N LONG 107 47 58				
NOV 1984				
30...	11:15	2.6	--	1.0
MAR 1985				
20...	14:00	4.8	2160	11.0
APR				
01...	12:00	5.5	1780	8.0
29...	11:20	48	1290	6.5
MAY				
21...	11:05	22	1240	10.5
30...	14:05	16	1400	17.0
JUN 1985				
20...	12:45	6.1	1650	21.5
JUL				
18...	14:00	4.3	1520	22.5
AUG				
12...	13:35	2.5	1590	20.0
SEP				
06...	10:40	1.8	1650	12.0
09250510 TAYLOR CREEK AT MOUTH NEAR AXIAL, CO. (LAT 40 18 48N LONG 107 47 57W)				
NOV 1984				
30...	11:35	--	--	1.5
FEB 1985				
20...	11:10	0.9	--	0.5
MAR				
20...	14:15	0.24	1700	13.0
APR				
01...	13:30	1.2	1650	9.5
29...	09:50	14	1380	6.0
MAY 1985				
21...	09:35	6.9	1490	8.0
30...	14:30	3.8	1590	16.0
JUN				
20...	11:30	1.5	1740	16.5
JUL				
18...	13:10	0.68	1760	21.0
AUG				
12...	12:45	0.17	1780	18.0
09255000 SLATER FORK NEAR SLATER, CO. (LAT 40 58 54N LONG 107 22 58W)				
DEC 1984				
12...	13:05	44	275	0.5
FEB 1985				
05...	15:45	34	290	0.0
MAR				
13...	13:30	34	337	0.5
APR				
11...	15:35	219	273	7.5
MAY				
09...	15:05	719	121	8.0
JUN 1985				
18...	15:30	171	124	15.5
JUL				
17...	16:00	27	298	22.0
AUG				
08...	11:45	23	274	17.5
SEP				
04...	13:00	28	207	16.5
09258000 WILLOW CREEK NEAR DIXON, WY. (LAT 40 54 56N LONG 107 31 16W)				
OCT 1984				
31...	10:24	7.7	360	2.5
DEC				
11...	15:20	6.0	176	0.0
FEB 1985				
27...	09:05	6.5	410	0.0
APR				
11...	09:50	52	296	2.5
MAY				
09...	08:40	62	155	4.5
JUN 1985				
18...	09:00	34	78	7.0
JUL				
17...	09:55	2.7	207	16.5
AUG				
08...	14:40	1.4	235	22.0
SEP				
04...	10:50	4.3	175	15.0
09260050 YAMPA RIVER AT DEERLODGE PARK, CO. (LAT 40 27 02N LONG 108 31 20W)				
JAN 1985				
29...	14:10	672	915	0.0
MAR				
05...	12:00	707	993	0.0
APR				
10...	15:25	6580	745	11.5
JUN 1985				
28...	15:30	4310	306	17.5
AUG				
07...	12:30	875	574	23.5
09302450 LOST CREEK NEAR BUFORD, CO. (LAT 40 03 01N LONG 107 28 06W)				
OCT 1984				
15...	13:15	5.8	355	1.5
NOV				
14...	13:45	5.3	325	2.0
FEB 1985				
27...	11:50	8.0	378	0.0
AUG				
08...	11:00	3.6	404	13.0
09303320 WAGONWHEEL CREEK AT BUDGES RESORT, CO. (LAT 39 50 34N LONG 107 20 10W)				
OCT 1984				
09...	14:50	7.0	290	5.5
FEB 1985				
28...	11:45	E0.01	290	0.0
MAY				
01...	10:32	3.6	290	1.0
JUN 1985				
07...	11:10	155	244	5.0
AUG				
13...	14:50	9.7	289	10.5
SEP				
12...	13:30	1.0	288	7.5

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)
09304500 WHITE RIVER NEAR MEEKER, CO. (LAT 40 02 01N LONG 107 51 42W)				
NOV 1984				
13...	14:00	554	490	4.5
JAN 1985				
07...	14:35	449	460	0.0
FEB				
14...	15:10	362	512	1.0
MAR				
13...	11:25	408	598	--
APR				
18...	12:00	1510	305	7.0
MAY 1985				
22...	10:50	2680	264	7.0
JUN				
20...	13:25	2510	241	12.0
JUL				
30...	09:45	825	463	12.0
AUG				
29...	11:40	322	541	14.0
SEP				
30...	14:00	548	476	7.0
09339900 EF SAN JUAN R AB SAND CREEK, NR PAGOSA SPGS, CO. (LAT 37 23 23N LONG 106 50 26				
OCT 1984				
10...	15:15	52	134	10.0
APR 1985				
01...	09:55	43	120	0.0
MAY				
08...	11:55	711	87	8.5
29...	13:40	670	92	10.0
JUN 1985				
11...	11:20	763	67	9.0
JUL				
09...	13:00	241	80	13.0
AUG				
21...	10:10	40	144	10.0
09342500 SAN JUAN RIVER AT PAGOSA SPRINGS, CO. (LAT 37 15 58N LONG 107 00 37W)				
OCT 1984				
11...	14:15	213	125	10.0
NOV				
29...	13:45	114	0	0.5
JAN 1985				
10...	15:00	104	180	1.0
MAR				
27...	10:00	337	148	0.5
APR				
08...	15:35	1080	114	9.5
MAY 1985				
09...	06:40	2640	78	9.5
30...	09:05	2710	63	5.5
JUN				
11...	09:00	3060	51	5.5
JUL				
09...	10:25	838	0	14.0
AUG				
28...	17:25	90	138	22.0
09346000 NAVAJO RIVER AT EDITH, CO. (LAT 37 00 10N LONG 106 54 25W)				
OCT 1984				
11...	12:30	93	198	9.5
NOV				
29...	12:25	62	0	0.0
JAN 1985				
23...	10:25	59	247	0.0
MAR				
27...	09:00	223	330	1.0
MAY 1985				
09...	09:55	312	179	6.5
29...	16:00	503	0	12.0
JUN				
11...	14:00	919	78	11.0
JUL				
10...	10:35	242	0	13.0
AUG				
21...	12:10	71	266	14.0
09346400 SAN JUAN RIVER NEAR CARRACAS, CO. (LAT 37 00 49N LONG 107 18 42W)				
OCT 1984				
30...	13:20	537	340	7.0
MAR 1985				
12...	15:15	6650	223	6.0
APR				
08...	10:30	2180	197	7.0
MAY 1985				
10...	11:35	3850	144	8.0
31...	08:45	3680	108	9.0
JUL				
08...	15:10	1390	0	19.0
AUG				
15...	11:20	335	288	17.0
09349800 PIEDRA RIVER NEAR ARBOLES, CO. (LAT 37 05 18N LONG 107 23 50W)				
OCT 1984				
30...	14:20	276	279	9.0
DEC				
04...	10:25	135	397	0.0
JAN 1985				
23...	12:45	131	349	2.0
MAR				
12...	12:40	1820	338	5.0
APR				
08...	09:45	2250	166	4.5
MAY 1985				
10...	13:45	2620	151	9.0
31...	10:25	1980	63	8.0
JUL				
08...	13:20	553	168	18.0
AUG				
15...	14:15	203	412	19.5
09354500 LOS PINOS RIVER AT LA BOCA, CO. (LAT 37 00 34N LONG 107 35 56W)				
OCT 1984				
30...	11:00	496	137	8.0
DEC				
04...	12:30	174	173	2.0
JAN 1985				
24...	13:40	97	294	5.0
MAR				
15...	11:40	276	266	6.5
APR 1985				
12...	10:25	651	188	8.0
MAY				
06...	09:45	1300	145	9.5
JUL				
08...	10:55	352	188	19.0
AUG				
21...	16:10	257	190	18.0

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE (DEG C)
09355000 SPRING CREEK AT LA BOCA, CO. (LAT 37 00 40N LONG 107 35 47W)									
OCT 1984					APR 1985				
30...	09:50	7.1	1000	5.0	12...	11:30	18	412	11.0
DEC					MAY				
04...	13:15	7.3	983	0.5	06...	11:00	10	571	17.0
JAN 1985					JUL				
24...	12:25	6.7	966	1.0	08...	09:35	75	288	20.0
MAR					AUG				
15...	10:45	21	651	6.0	21...	15:10	86	276	19.0
09371400 HARTMAN DRAW AT CORTEZ, CO. (LAT 37 19 26N LONG 108 36 52W)									
OCT 1984					MAY 1985				
11...	11:45	11	2390	10.0	08...	11:00	7.8	3000	14.0
DEC					JUN				
07...	12:20	21	3110	2.0	21...	13:45	11	2250	18.0
JAN 1985					AUG				
24...	14:30	12	0	4.0	01...	12:50	23	2030	20.0
MAR					SEP				
07...	15:10	7.7	3150	11.0	05...	10:30	7.6	1780	0.0
09371420 MCELMO CREEK ABOVE ALKALI CANYON, NR CORTEZ, CO. (LAT 37 19 38N LONG 108 38 55									
OCT 1984					MAY 1985				
11...	13:00	26	2390	12.0	08...	12:55	13	3000	17.0
DEC					JUN				
07...	10:00	6.5	2920	0.0	25...	12:40	20	2760	18.0
JAN 1985					AUG				
23...	14:55	20	3020	1.0	01...	09:55	47	2030	19.5
MAR					SEP				
08...	10:20	19	3670	4.0	05...	13:35	14	1940	20.0
09371492 MUD CREEK AT STATE HIGHWAY 32, NEAR CORTEZ, CO. (LAT 37 18 46N LONG 108 39 38									
OCT 1984					JUN 1985				
26...	12:00	7.3	3880	0.0	21...	11:55	17	2680	17.0
DEC					JUL				
06...	13:25	4.4	4900	0.0	31...	14:50	23	4600	21.0
JAN 1985					SEP				
24...	12:00	3.4	5000	2.0	27...	11:10	11	2630	10.0
MAY									
08...	13:55	3.2	6000	16.0					
09372000 MCELMO CREEK NEAR COLORADO-UTAH STATE LINE (LAT 37 19 27N LONG 109 00 54W)									
OCT 1984					NOV 1984				
07...	10:55	59	2700	13.5	04...	11:30	58	1720	10.0
					29...	10:00	38	3520	0.5

LA PLATA COUNTY

370122107522700 NB 32- 9-1 BBB. B. Cogburn. Drilled stock water-table well in Naciemento Formation. Diameter, 6 in. Depth, 138 ft. MP, 0.3 ft above lsd. Elevation of land surface, 5,980 ft. Records available: 1973-85.

Highest water level, 19.18 ft below lsd, Aug. 26, 1976; lowest water level, 27.3 ft below lsd, Apr. 30, 1974.

Sept. 24, 1985	21.20 ft

370934107404100 NB34-08-26 AD2. U.S. Geological Survey Oxford Test Hole. Drilled observation water-table well in San Jose Formation. Diameter 6 in. Depth, 502 ft. MP, 1.0 ft above lsd. Elevation of land surface, 6,635 ft. Records available: 1975, 1980-85.

Highest water level, 17.0 ft below lsd, Oct. 2, 1975; lowest water level, 27.23 ft below lsd, Aug. 13, 1980.

Aug. 16, 1985	32.25 ft

MONTEZUMA COUNTY

370410108583701 NB33-20-25 DC. Ute Indian Tribe. Drilled stock water-table well in Dakota Sandstone. Diameter, 5 in. Depth, 250 ft. MP, 2.0 ft above lsd. Elevation of land surface, 4,900 ft. Records available: 1973-85.

Highest water level, -1.59 ft above lsd, Sept. 30, 1975; lowest water level, 59.43 ft below lsd, Aug. 18, 1980.

Aug. 30, 1985	41.08 ft

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October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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