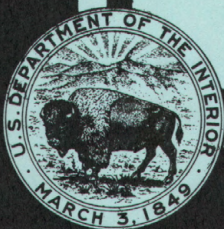


Water Resources Data for Colorado Water Year 1977

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



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CO-77-3

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

CALENDAR FOR WATER YEAR 1977

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OCTOBER

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Water Resources Data for Colorado Water Year 1977

**Volume 3. Dolores River Basin
Green River Basin
San Juan River Basin**



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CO-77-3

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

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

H. William Menard, Director

For information on the water program in Colorado write to:

District Chief, Water Resources Division
U.S. Geological Survey
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Lakewood, CO 80225

1978

PREFACE

This report was prepared by the U.S. Geological Survey in cooperation with the State of Colorado and other agencies by personnel of the Colorado District of the Water Resources Division under the supervision of J. F. Blakey, District Chief, and Alfred Clebsch, Jr., Regional Hydrologist, Central Region.

This report is one of a series issued State by State under the direction of J. S. Cragwall, Jr., Chief Hydrologist, and the Assistant Chief Hydrologist for Scientific Publications and Data Management.

Data for Colorado are in three volumes as follows:

- 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.

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WATER RESOURCES DATA FOR COLORADO, 1977

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

VOLUME 2: COLORADO RIVER BASIN ABOVE THE DOLORES RIVER

VOLUME 3: DOLORES, GREEN, AND SAN JUAN BASINS

INTRODUCTION

Water resources data for Colorado for the 1977 water year consists 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 424 gaging stations, stage and contents of 25 lakes and reservoirs, 5 partial-record flow stations, 79 crest-stage partial-record stations, and 193 miscellaneous sites; water quality for 134 gaging stations and 60 miscellaneous sites; and water levels for 55 observation wells. Locations of lake- and stream-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. A few pertinent stations in bordering States are also included in this report. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of J. F. Blakey, district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Colorado.

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." Through September 30, 1960, these Water-Supply Papers were published in an annual series, and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual Water-Supply Paper series entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1955 in an annual Water-Supply Paper series entitled, "Water Levels and Artesian Pressures in Wells in the United States," and from 1955 to the present time, in a 5-year Water-Supply Paper series entitled, "Ground-water Levels in the United States."

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State-boundary basis. Beginning with the 1964 water year, water-quality records for surface and ground water have been similarly released in separate annual reports. These reports provided for rapid release of preliminary data shortly after the end of the water year. The final data were then released in the Water-Supply Paper series mentioned above. Beginning with the 1975 water year, water data will be released on a State-boundary basis in final form and will not be republished in the Water-Supply Paper series. The 1975 and subsequent water year reports will be in a series which will 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 report is identified as "U.S. Geological Survey Water-Data Report CO-77-3." These reports are for sale to the public for a nominal fee from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22151. For more information on available publications, see the section entitled, "PUBLICATIONS" on subsequent pages.

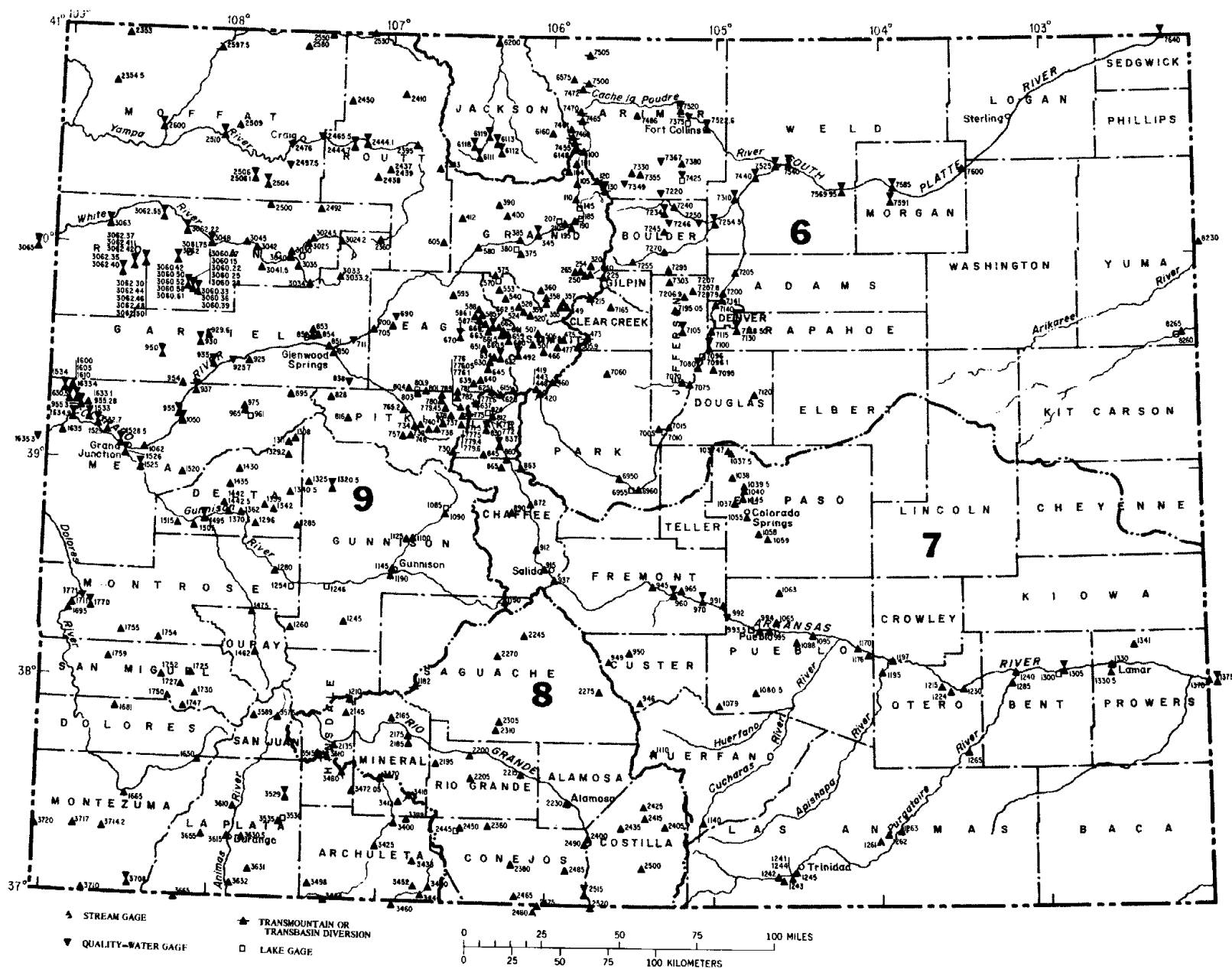
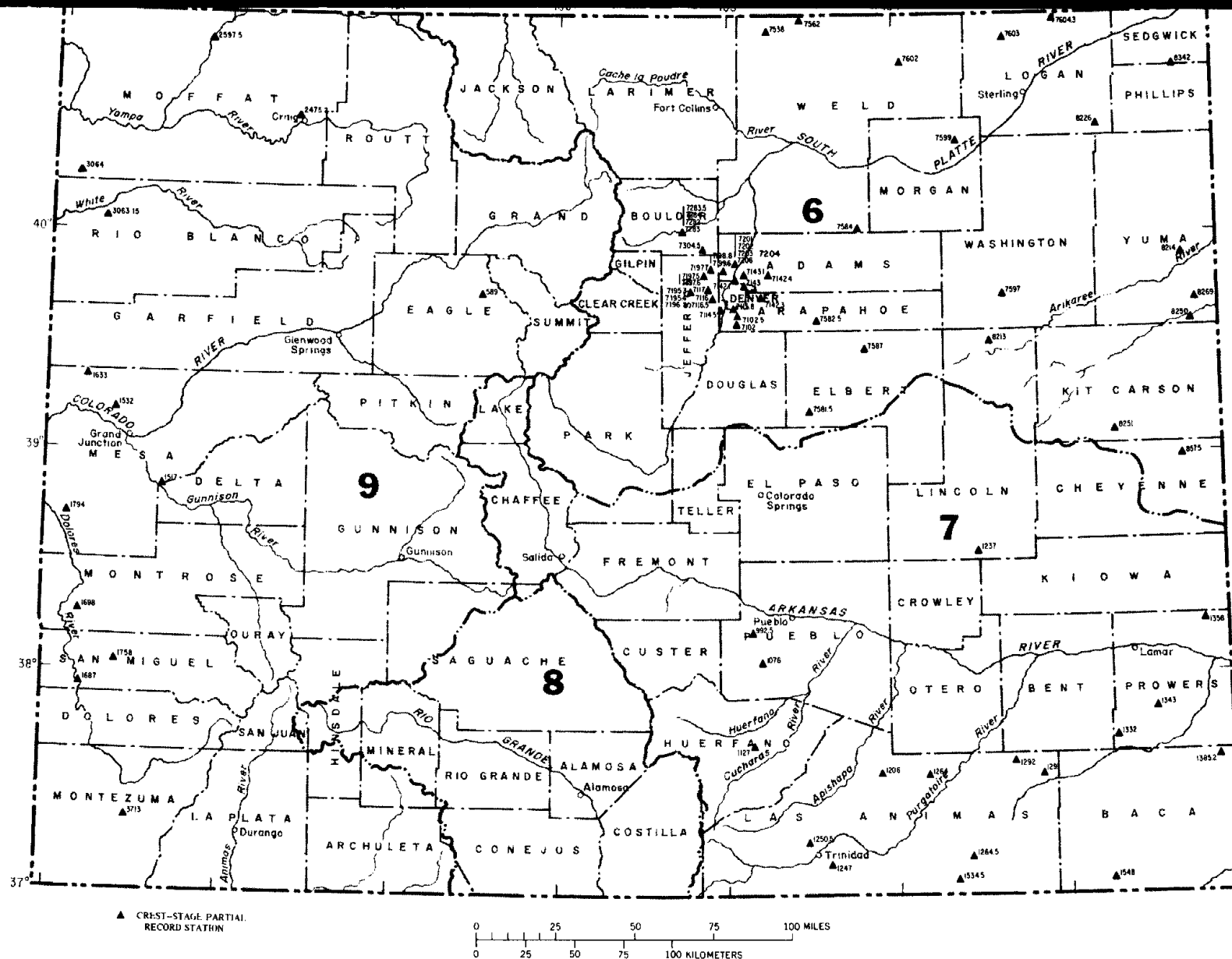
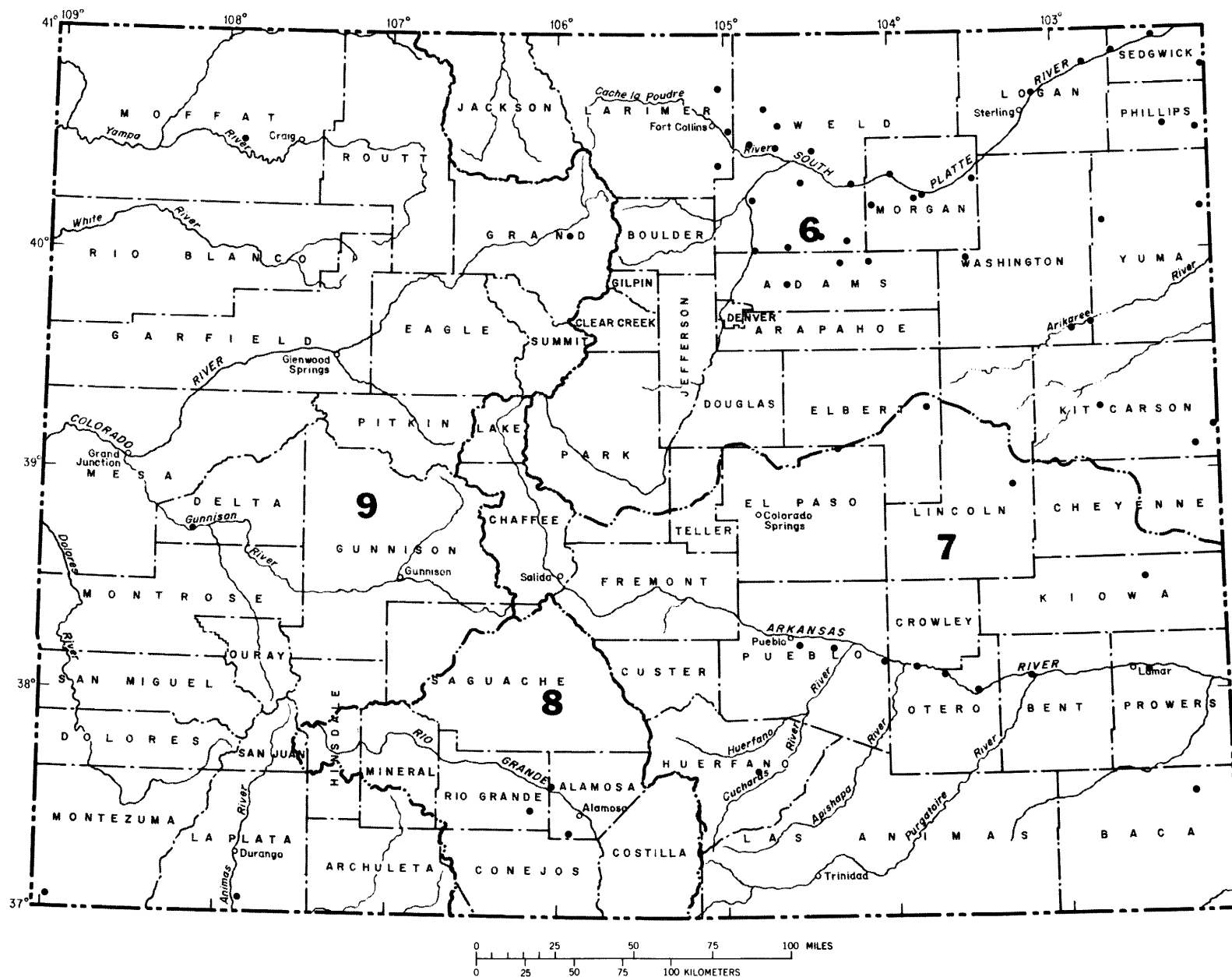


Figure 1.--Map showing locations of lake- and stream-gaging stations



WATER RESOURCES DATA FOR COLORADO

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



WATER RESOURCES DATA FOR COLORADO

Figure 3.--Map showing locations 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:

Colorado Division of Water Resources, C. J. Kuiper, State Engineer.
Colorado Water Conservation Board, F. L. Sparks, Director.
Colorado Department of Highways, Jack Kinstlinger, Executive Director.
Arkansas River Compact Administration, Frank G. Cooley, Chairman and Federal Representative.
Colorado River Water Conservation District, Roland C. Fischer, Secretary-Engineer.
Southwestern Water Conservation District, Robert H. Tyner, Manager.
Southeastern Colorado Water Conservancy District, C. L. Thomson, General Manager.
City and County of Denver, Board of Water Commissioners, Charles F. Brannan, President.
Eagle County Commissioners, Dale F. Grant, Chairman.
Pitkin County Board of County Commissioners, George Ochs, County Manager.
City of Aspen, Phillip Mahoney, City Manager.
City of Aurora, C. A. Wemlinger, Director of Utilities.
Colorado City Water and Sanitation District, D. E. Cady, District Administrator.
City of Colorado Springs, Department of Public Utilities, James D. Phillips, Director.
City of Fort Collins, Roger E. Krempel, Director of Utilities.

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

HYDROLOGIC CONDITIONS

Mountain snowfall was less than 50 percent of normal, resulting in a shortage in the supply of irrigation water for the growing season, and a reservoir storage carryover of less than 70 percent of normal.

Rainfall on the eastern plains was near normal but spotty.

Ground-water levels continued to decline in the northern High Plains but remained constant in the alluvial river-channel aquifers.

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 English units to metric units (International System, SI, units) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is 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.

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, or 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 \pm 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warmblooded 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 \pm 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded animals; their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours, at 35°C \pm 1.0°C on M-enterococcus 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 a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stabilizing decomposable organic matter under aerobic conditions.

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

Ash weight is the weight of amount of residue present after the residue from the dry weight determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash weight values of zooplankton and phytoplankton are expressed in

g/m^3 (grams per cubic meter), and periphyton and benthic organisms in g/m^2 (grams per square meter).

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

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

Wet weight is the weight 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 a 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 2,445 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 green 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, 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 the amount of a substance present in true chemical solution. In practice, however, the term includes all forms of the substance that will pass through a 0.45-micrometer membrane filter, and thus may include some very small (colloidal) suspended particles. Analyses are performed on filtered samples.

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

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

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 gage height or discharge 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 and magnesium) and is expressed as equivalent calcium carbonate (CaCO_3).

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

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter 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 mixturn.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per liter to milliequivalents per liter

Ion	Multi- ply by	Ion	Multi- ply by
Aluminum (Al^{+3})*.....	0.11119	Iodide (I^{-1}).....	0.00788
Ammonia as N.....	.07143	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.....	.07143
Chromium (Cr^{+6})*.....	.11539	Nitrite as N.....	.07143
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.

Partial-record station is a particular site where limited stream-flow 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-accumulation 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 2.--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	Di- vide by	Range of concentration in 1000 mg/L	Di- vide by	Range of concentration in 1000 mg/L	Di- vide by	Range of concentration in 1000 mg/L	Di- vide 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	636-650	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	331-345	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, as used in this report, agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

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

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic 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 dpm (disintegrations per minute).

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. These compounds 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.

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 discharge 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 by volume, that is discharged in a given time. Suspended-sediment discharge in tons per day is computed by multiplying discharge times mg/L times 0.0027.

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 is discharged during a given time.

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 or 0.09 m above the bed) expressed as milligrams of dry sediments per liter of water-sediment mixture (mg/L).

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

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 and is expressed in micromhos per centimeter at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos per centimeter at 25°C). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

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

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff."

Streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

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 weight of dissolved solids in tons (0.9072 tonnes) in 1 acre-foot (1,233 m³) 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 in tons (0.9072 tonnes) that passes a stream section during a 24-hour period.

Total (as used in tables of chemical analyses) refers to the amount of a substance that is present both in solution and in suspension. Analyses are performed on representative samples of water-suspended sediment mixtures.

Water year in 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, 1977, is called the "1977 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.

WDR is an abbreviation for "Water-Data Report" in the summary REVISIONS paragraph to refer to State annual basic-data reports published after 1974.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to State annual basic-data reports published prior to 1975.

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

WATER RESOURCES DATA FOR COLORADO

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.

Irrigation-network stations are water-quality stations located at or near certain streamflow gaging stations west of the main stem of the Mississippi River. Data collected at these stations are used to evaluate the chemical quality of surface waters used for irrigation and the changes resulting from the drainage of irrigated lands. Prior to water year 1966, the data for these stations were published in the annual Water-Supply Paper series, "Quality of Surface Water for Irrigation, Western States."

National stream-quality accounting network is an accounting 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 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 water-quality conditions nationwide on a year-by-year basis, and (2) to detect and assess long-term changes in stream quality.

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 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.

EXPLANATION OF SURFACE-WATER 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 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), 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 engineers 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 stations gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks, and notations of revisions or previously published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available.

River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies.

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 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 were revised, that 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, 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.

Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at 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). The first paragraph are extremes for 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.

Footnotes to the table of daily discharges 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.

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 is also expressed in acre-feet (line headed "AC-FT"). In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

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 are given in tables at the end of the gaging-station records in this report. 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, the third is a table of storm precipitation and related runoff at storm-runoff partial-record stations, and the fourth is a table of discharge measurements at miscellaneous sites.

ACCURACY OF DATA

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 interpretation 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 is 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 $1 \text{ ft}^3/\text{s}$; to tenths between 1.0 and $10 \text{ ft}^3/\text{s}$; to whole numbers between 10 and $1,000 \text{ ft}^3/\text{s}$; and to 3 significant figures above $1,000 \text{ ft}^3/\text{s}$. 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, evaporation, or 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.

PUBLICATIONS

In each Water-Supply Paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding Water-Supply Papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of Water-Supply Papers containing detailed information on major floods in the area. Records for stations in Colorado for the period October 1960 to September 1965 are in Water-Supply Papers 1918, 1919, 1921, 1923, 1924, and 1925; and for the period October 1965 to September 1970 are in Water-Supply Papers 2118, 2119, 2121, 2123, 2124, and 2125.

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950 and the second series covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps where practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in Colorado are compiled in Water-Supply Papers 1310, 1311, 1312, and 1313 through September 1950; and in Water-Supply Papers 1730, 1731, 1732, and 1733 for October 1950 to September 1960.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

OTHER DATA AVAILABLE

Information of a more detailed nature than that published for most of the gaging stations, such as 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.

WATER RESOURCES DATA FOR COLORADO

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 following 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 Bureau of Reclamation, U.S. Department of the Interior.

EXPLANATION OF WATER-QUALITY RECORDS

COLLECTION AND EXAMINATION OF DATA

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads.

Descriptive statements are given for water-quality stations located at or near streamflow stations. Information given includes the location, drainage area, periods of record for the various water-quality data, extremes of the pertinent data, and general remarks in a format similar to that used for streamflow gaging stations.

Water-quality information is presented for chemical, biological, and microbiological quality, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, sodium-absorption-ratio, specific conductance, and pH.

The biological information includes qualitative and quantitative analyses of plankton, bottom organisms, and particulate inorganic and amorphous matter present. Microbiological information includes quantitative identification of certain bacteriological indicator organisms.

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 g/mL (grams per milliliter), 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.

TEMPERATURE

Water temperatures were 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 daily stations, the water temperatures are taken at about the same time each day when the sample is collected. At stations where continuously recording

thermographs are present, the records consist of maximum and minimum temperatures for each day; stations equipped with noncontinuous digital monitors provide temperature records based on hourly punches.

Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

Table 3.--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=5/9(°F-32°) or °F=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.)

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).

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 published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between the reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with noncontinuous digital monitors, the records 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 Geological Survey district office at the address given on the back of the title page of this report.

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 tons 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 4.--Water-Supply Paper numbers and parts,
water years 1941-71

Year	Part 6	Part 7	Part 8	Part 9	Irrigation (1951-65) ^a
1941	942	942	942	942	----
1942	950	950	950	950	----
1943	970	970	970	970	----
1944	1022	1022	1022	1022	----
1945	1030	1030	1030	1030	----
1946	1050	1050	1050	1050	----
1947	1102	1102	1102	1102	----
1948	1132	1133	1133	1133	----
1949	1162	1163	1163	1163	----
1950	1187	1188	1188	1189	----
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	^b 2155	^b 2156	^b 2157	^b 2158	----
1971	^b 2165	^b 2166	^b 2167	^b 2168	----

^aAnnual series, "Quality of Surface Waters for Irrigation, Western States."

^bIn 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.

WATER RESOURCES DATA FOR COLORADO

EXPLANATION OF GROUND-WATER-LEVEL RECORDS

COLLECTION OF DATA

Only ground-water-level data from a basic national network of observation wells are published in this report. 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 digit is a sequential number for wells within a 1-second grid, as shown below in figure 4.

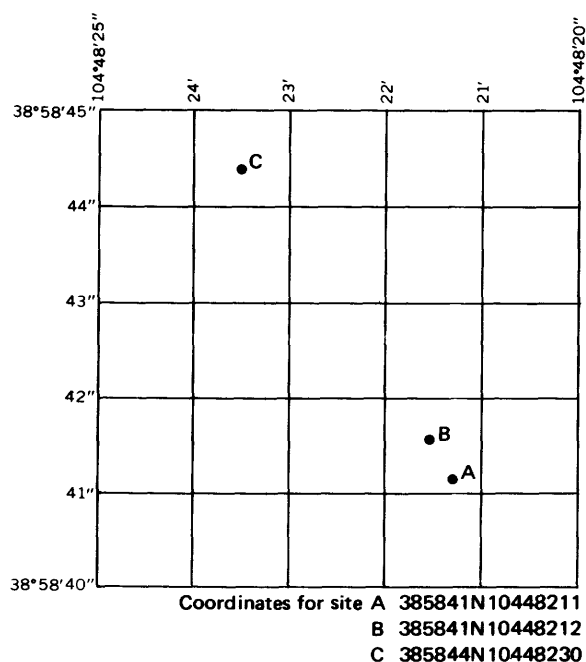


Figure 4.--System for numbering wells and miscellaneous sites (latitude and longitude).

The local well number locates a well within a 10-acre (4.0-ha) 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 (10 km) by townships and is subdivided in the east-west direction every 6 mi (10 km) by ranges. The first number of the well location designates the township and the second number designates the range.

The 36-mi² (93-km²) area described by the township and range designation is subdivided into 1-mi² (2.59-km²) areas called sections. The sections are numbered sequentially. The third number of the well location designates the section. The section, which contains 640 acres (259 ha), is subdivided into quarter sections. The 160-acre (64.8-ha) 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 (16.2-ha) 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 (4.0-ha) 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 (4.0-ha) 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 measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

WATER RESOURCES DATA FOR COLORADO

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 of 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 U.S. 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.

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Minn., 41 p., 27 figs.

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

Report 14, 1963, Determinations of fluvial sediment discharge:
Washington, D. C., U.S. Govt. Printing Office, 151 p.,
70 figs.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-one manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing 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) is on surface water. The chapter, the unit of publications, 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 Picket Street, Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering 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 p. \$1.60.
- 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. \$1.90.
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- 3-A12. Fluorometric procedures for dye tracing, by J. F. Wilson Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. \$0.35. Not currently available.
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- 3-B2. Introduction to ground-water hydraulics--a programmed text for self-instruction, by D. S. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-C1. Fluvial sediment concepts, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. \$0.65.
- 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. \$0.70.
- 3-C3. Computation of fluvial-sediment discharge, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. \$1.15.
- 4-A1. Some statistical tools in hydrology, by H. C. Riggs: USGS--TWRI Book 4 Chapter A1. 1968. 39 pages. \$0.30.
- 4-A2. Frequency curves, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. \$0.20.
- 4-B1. Low-flow investigations, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages. \$0.65.
- 4-B2. Storage analyses for water supply, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. \$0.75.
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WATER RESOURCES DATA FOR COLORADO

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DOLURES RIVER BASIN

33

09165000 DOLURES 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 (0.8 km) upstream from Ryman Creek, and 4.0 mi (6.4 km) southwest of Rico.

DRAINAGE AREA.--105 mi² (272 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 8,422.23 ft (2,567.096 m) above mean sea level.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--26 years, 128 ft³/s (3,625 m³/s), 92,740 acre-ft/yr (114 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,120 ft³/s (60.0 m³/s) June 10, 1952, gage height, 6.15 ft (1.875 m); minimum daily, 7.0 ft³/s (0.20 m³/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.--Maximum discharge, 270 ft³/s (7.65 m³/s) May 9, gage height, 3.41 ft (1.039 m); minimum daily, 12 ft³/s (0.34 m³/s) Feb. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	25	14	14	14	15	17	91	146	29	44	35
2	60	25	15	14	14	15	15	97	138	28	40	37
3	72	27	15	14	14	15	16	121	130	27	37	39
4	68	24	16	14	14	15	14	104	120	35	35	48
5	60	24	16	14	14	15	14	138	118	46	33	39
6	55	23	16	14	14	14	18	143	113	41	32	38
7	48	25	16	15	14	16	21	152	113	36	30	33
8	47	23	16	15	13	18	27	159	107	30	29	31
9	45	22	17	15	13	22	39	167	113	28	29	29
10	43	21	17	15	12	18	66	143	97	26	28	29
11	41	22	16	15	13	16	85	88	82	25	29	37
12	39	22	16	14	13	16	65	76	75	24	29	65
13	38	23	16	14	14	19	60	71	67	25	26	46
14	38	23	16	14	14	17	59	65	64	26	25	39
15	37	22	16	14	14	17	60	59	59	27	69	50
16	35	22	15	13	14	18	88	65	54	30	75	48
17	34	22	15	13	15	18	124	78	51	30	62	39
18	32	23	15	13	16	17	148	78	47	36	56	36
19	24	23	14	14	16	15	104	60	44	48	54	34
20	25	22	15	14	16	16	51	54	40	61	46	32
21	26	21	15	14	17	19	41	48	38	57	46	30
22	30	21	14	14	17	24	57	70	36	57	48	29
23	29	20	14	15	15	24	73	104	35	78	54	28
24	27	21	14	15	16	22	73	103	35	79	100	27
25	26	20	14	14	16	19	63	75	35	91	100	25
26	27	20	14	14	15	19	83	76	35	100	70	25
27	26	18	14	14	15	20	71	67	34	85	58	26
28	25	16	14	15	15	22	79	88	32	85	50	27
29	25	14	13	14	---	17	76	135	32	65	45	25
30	27	14	13	14	---	16	76	146	30	55	40	24
31	27	---	14	14	---	16	---	146	---	49	38	---
TOTAL	1198	648	465	439	407	550	1783	3067	2120	1459	1457	1050
MEAN	38.6	21.6	15.0	14.2	14.5	17.7	59.4	98.9	70.7	47.1	47.0	35.0
MAX	72	27	17	15	17	24	148	167	146	100	100	65
MIN	24	14	13	13	12	14	14	48	30	24	25	24
AC-FT	2380	1290	922	871	807	1090	3540	6080	4210	2890	2890	2080

CAL YR 1976 TOTAL 37844 MEAN 103 MAX 804 MIN 12 AC-FT 75060
WTR YR 1977 TOTAL 14643 MEAN 40.1 MAX 167 MIN 12 AC-FT 29040

NOTE.--NO GAGE-HEIGHT RECORD NOV. 29 TO MAR. 31.

DOLORES RIVER BASIN

09166500 DOLORES RIVER AT DOLORES, CO

LOCATION.--Lat 37°28'16", long 108°30'15", in NE1/4 sec. 16, T.37 N., R.15 W., Montezuma County, Hydrologic Unit 14030002, on left bank 70 ft (21 m) downstream from bridge on State Highway 184 in Dolores and 0.4 mi (0.6 km) upstream from Lost Canyon Creek.

DRAINAGE AREA.--504 mi² (1,305 km²).

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. Datum of gage is 6,918.74 ft (2,108.832 m) above mean sea level. See WSP 1713 or 1733 for history of changes prior to Oct. 7, 1932.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 2,000 acres (8.1 km²) above station. Flow partly regulated by Ground Hog Reservoir, capacity, 21,710 acre-ft (26.8 hm³).

AVERAGE DISCHARGE.--66 years (water years 1896-1903, 1911-12, 1922-77), 422 ft³/s (11.95 m³/s), 305,700 acre-ft/yr (377 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,000 ft³/s (283 m³/s) Oct. 5, 1911, gage height, 10.2 ft (3.11 m), site and datum then in use, from rating curve extended above 2,900 ft³/s (79 m³/s); minimum daily, 8.0 ft³/s (0.23 m³/s) Aug. 16, 1896.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 585 ft³/s (16.6 m³/s) Apr. 18, gage height, 4.95 ft (1.509 m), no peak above base of 1,800 ft³/s (51 m³/s); minimum daily, 19 ft³/s (0.54 m³/s) Dec. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	52	44	22	26	32	38	298	284	53	80	64
2	158	50	36	24	26	28	38	232	277	50	70	61
3	158	52	34	26	28	28	38	321	266	49	81	80
4	162	52	34	26	28	30	39	266	242	54	57	86
5	146	48	36	24	28	28	38	266	242	76	48	96
6	134	48	34	24	30	26	38	313	235	82	45	84
7	124	49	30	26	28	30	42	321	238	70	42	76
8	110	49	30	24	26	34	51	333	223	61	42	68
9	106	45	32	26	26	36	71	345	226	51	40	64
10	100	44	34	26	28	34	96	341	226	47	41	55
11	95	45	34	26	28	30	181	252	181	45	42	64
12	90	44	30	28	28	32	256	256	158	43	48	104
13	89	48	30	28	30	36	170	252	144	37	46	124
14	83	48	28	28	30	40	130	277	130	35	42	100
15	80	47	28	28	30	38	134	181	124	37	68	95
16	77	42	26	28	32	40	160	256	114	43	134	110
17	77	42	26	28	32	36	249	238	107	46	144	95
18	76	46	24	28	34	32	345	211	100	56	126	80
19	68	47	24	28	34	32	385	178	89	72	116	72
20	55	44	22	28	36	38	291	150	82	106	104	65
21	57	41	22	30	38	34	172	132	77	140	100	61
22	64	40	20	30	40	40	134	132	76	126	94	56
23	68	42	20	30	38	48	148	155	66	146	94	51
24	63	42	22	28	36	48	193	193	65	170	131	48
25	58	40	22	26	30	50	175	190	72	181	202	44
26	58	40	20	24	26	48	168	175	68	199	160	41
27	59	40	22	24	30	50	181	170	66	199	124	42
28	53	42	22	26	28	55	205	162	61	160	106	48
29	50	42	19	26	---	50	294	187	59	136	92	46
30	51	42	20	26	---	46	277	229	60	110	77	45
31	53	---	22	26	---	48	---	260	---	96	70	---
TOTAL	2772	1353	847	822	854	1177	4737	7272	4358	2776	2646	2133
MEAN	89.4	45.1	27.3	26.5	30.5	38.0	158	235	145	89.5	85.4	71.1
MAX	162	52	44	30	40	55	385	345	284	199	202	124
MIN	50	40	19	22	26	26	38	132	59	35	40	41
AC-FT	5500	2680	1680	1630	1690	2330	9400	14420	8640	5510	5250	4230
CAL YR 1976 TOTAL	121871			333		2180						
WTR YR 1977 TOTAL	31747			MEAN 87.0		MAX 385						
						MIN 19		AC-FT 241700				
								AC-FT 62970				

NOTE.--NO GAGE-HEIGHT RECORD DEC. 6 TO MAR. 31.

DULORES RIVER BASIN

35

09168100 DISAPPOINTMENT CREEK NEAR DOVE CREEK, CO

LOCATION.--Lat 37°52'36", long 108°34'57", Dolores County, Hydrologic Unit 14030002, 0.2 mi (0.3 km) downstream from ford, 6.5 mi (10.5 km) southeast of Cedar, and 19 mi (31 km) northeast of town of Dove Creek.

DRAINAGE AREA.--147 mi² (381 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 6,420 ft (1,957 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Several small reservoirs and ponds above station. Small diversions for irrigation above station.

AVERAGE DISCHARGE.--20 years, 16.1 ft³/s (0.4560 m³/s), 11,660 acre-ft/yr (14.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,270 ft³/s (206 m³/s) July 24, 1977, gage height, 13.38 ft (4.078 m), from rating curve extended above 250 ft³/s (7.1 m³/s), on basis of slope-area measurements at gage heights 7.18, 9.86, 10.95, 13.38, and 13.54 ft (2.188, 3.005, 3.338, 4.078, and 4.127 m); maximum gage height, 13.54 ft (4.127 m) July 13, 1965 (slope-area measurement); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 560 ft³/s (16 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
July 24	1900	*7,270 206	13.38 4.078	Aug. 16	0400	1,560 44.2	9.10 2.774

No flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	.65	.20	.00	.00	.00	1.2	7.5	2.1	.00	.00	.00
2	1.6	.65	.20	.00	.00	.00	.55	7.5	1.4	.00	.00	.00
3	1.5	.65	.20	.00	.00	.00	.80	7.0	1.2	.00	.00	11
4	1.5	.80	.10	.00	.00	.00	.55	5.5	1.9	3.7	.00	9.9
5	1.4	3.1	.10	.00	.30	.00	.95	5.5	1.1	.08	.30	3.0
6	1.1	4.1	.10	.00	.00	.10	1.9	5.2	.95	.04	.00	1.0
7	1.1	3.6	.10	.00	.00	.20	3.5	5.2	.95	.02	.00	.00
8	.95	3.8	.10	.00	.00	.60	5.2	3.8	1.9	.00	.00	.00
9	.95	1.2	.10	.00	.00	.60	5.8	3.8	1.9	.00	.00	.00
10	.55	.95	.10	.00	.00	.70	6.3	3.8	.80	.00	.00	.00
11	.00	.95	.10	.00	.00	.80	12	3.3	.45	.00	.00	25
12	.00	.95	.10	.00	.00	1.0	10	2.4	.35	.00	.00	82
13	.00	1.1	.10	.00	.00	1.2	8.2	2.9	.15	.00	.00	8.2
14	.00	1.1	.10	.00	.00	1.4	6.9	5.5	.00	.00	8.8	4.0
15	.00	1.2	.10	.00	.00	.60	8.2	6.3	.00	.00	52	1.0
16	.00	.80	.10	.00	.00	.80	11	6.0	.00	.00	193	.00
17	.00	.95	.10	.00	.00	1.2	14	6.3	.00	.00	69	.00
18	.00	.95	.10	.00	.00	1.0	17	7.5	.00	9.6	22	.00
19	.00	1.2	.00	.00	.00	.50	17	7.5	.00	7.9	9.4	.00
20	.00	.95	.00	.00	.00	.50	13	4.9	.00	22	41	.00
21	.00	.80	.00	.00	.00	.60	4.6	4.6	.00	34	17	.00
22	.00	.65	.00	.00	.00	.70	7.0	4.3	.00	45	6.3	.00
23	.00	.80	.00	.00	.00	1.0	8.5	4.6	.00	34	30	.00
24	.00	.55	.00	.00	.00	1.6	7.5	4.9	.00	601	12	.00
25	.00	.55	.00	.00	.00	2.0	5.0	5.8	.00	19	4.2	.00
26	.65	.65	.00	.00	.00	2.1	6.5	5.2	.00	10	4.2	.00
27	.55	.25	.00	.00	.00	2.2	6.5	5.2	.00	4.0	3.3	.00
28	.35	.20	.00	.00	.00	2.5	7.0	4.9	.00	1.0	1.5	.00
29	.45	.20	.00	.00	---	2.0	7.0	4.3	1.0	.00	.00	.00
30	.55	.20	.00	.00	---	1.4	7.0	4.1	.10	.00	.00	.00
31	.65	---	.00	.00	---	1.1	---	2.9	---	.00	.00	---
TOTAL	15.45	34.50	2.10	.00	.00	28.40	210.65	158.2	16.25	791.34	473.40	145.10
MEAN	.50	1.15	.068	.000	.000	.92	7.02	5.10	.54	25.5	15.3	4.84
MAX	1.6	4.1	.20	.00	.00	2.5	17	7.5	2.1	601	193	82
MIN	.00	.20	.00	.00	.00	.00	.55	2.4	.00	.00	.00	.00
AC-FT	31	68	4.2	.00	.00	50	418	314	32	1570	939	288
CAL YR 1976	TOTAL	5120.82	MEAN	14.0	MAX	115	MIN	.00	AC-FT	10160		
WTR YR 1977	TOTAL	1875.39	MEAN	5.14	MAX	601	MIN	.00	AC-FT	3720		

NOTE.--NO GAGE-HEIGHT RECORD NOV. 28 TO MAR. 20.

DOLORES RIVER BASIN

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 (0.6 km) southeast of Bedrock, and 3.1 mi (5.0 km) upstream from East Paradox Creek.

DRAINAGE AREA.--2,024 mi² (5,242 km²).

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. Altitude of gage is 4,940 ft (1,506 m), from topographic map. Prior to Aug. 1, 1971, nonrecording gage at different datum.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation of about 5,000 acres (20 km²) above station and about 33,000 acres (130 km²) in the San Juan River basin.

AVERAGE DISCHARGE.--11 years (water years 1918-22, 1972-77), 432 ft³/s (12.23 m³/s), 313,000 acre-ft/yr (386 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,280 ft³/s (263 m³/s) Apr. 30, 1973, gage height, 12.09 ft (3.685 m), from floodmarks, from rating curve extended above 8,700 ft³/s (250 m³/s); no flow Sept. 13, 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 6, 1970, reached a stage of 7.15 ft (2.179 m), present datum, from floodmarks (discharge not determined).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,720 ft³/s (190 m³/s) July 19, gage height, 10.68 ft (3.255 m), from floodmarks; minimum daily, 0.04 ft³/s (0.001 m³/s) June 29 to July 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	8.5	9.8	10	32	23	13	6.3	3.5	.04	28	6.8
2	13	8.5	10	11	28	20	13	7.3	2.7	.04	18	6.0
3	26	8.5	10	12	28	19	15	4.6	1.4	.04	13	28
4	14	8.5	10	12	34	19	13	2.2	.29	5.1	9.8	102
5	13	8.5	10	12	36	17	12	2.7	.13	174	7.8	65
6	15	8.5	10	12	34	17	12	2.8	.09	67	4.9	25
7	14	8.5	9.0	12	34	18	11	2.4	.25	12	6.1	12
8	12	8.5	10	13	28	18	12	2.5	.13	7.2	4.4	10
9	11	8.5	10	14	28	18	12	1.8	.09	5.6	1.8	8.6
10	11	8.5	9.0	15	24	17	11	.23	1.3	4.1	.39	7.2
11	10	8.7	10	15	24	15	10	.22	2.7	3.2	8.5	31
12	10	8.8	10	15	26	15	9.7	.26	2.7	3.1	12	22
13	9.7	8.9	10	15	26	15	9.1	.28	2.5	3.1	.73	167
14	9.5	9.0	10	16	26	15	8.6	3.0	1.6	2.7	1.1	64
15	9.3	10	10	18	24	14	8.4	4.2	.12	.37	18	28
16	9.1	9.7	10	17	24	14	7.8	3.2	.10	.86	1130	18
17	8.8	9.6	10	17	24	14	7.4	1.7	.06	.37	421	9.7
18	8.8	9.3	10	19	26	14	6.9	.69	.06	.42	544	7.4
19	8.4	9.3	10	20	26	13	7.0	1.6	.05	701	176	6.0
20	8.5	9.3	9.5	22	26	12	7.0	1.7	.05	238	75	5.2
21	8.5	9.3	9.5	22	28	13	6.3	.36	.05	240	36	4.1
22	8.5	9.2	10	20	28	13	6.0	1.6	.05	646	30	3.6
23	8.5	11	11	19	24	14	5.9	2.9	.05	189	65	3.1
24	8.5	11	11	20	24	14	6.2	3.2	.05	312	31	3.2
25	8.6	9.8	11	20	24	14	7.0	3.8	.05	757	19	3.2
26	8.5	9.5	11	20	22	16	6.8	4.0	.05	229	15	3.0
27	8.6	7.8	11	20	22	16	5.9	4.2	.05	124	17	2.8
28	8.9	6.3	11	22	22	14	6.5	3.9	.05	95	13	3.0
29	8.5	7.7	10	24	---	13	7.2	3.9	.04	74	10	3.1
30	8.5	9.4	10	26	---	12	6.4	4.1	.04	56	8.9	2.9
31	8.5	---	10	28	---	14	---	3.0	---	38	7.8	---
TOTAL	330.2	268.6	312.8	538	752	480	270.1	64.64	20.30	3988.24	2733.22	660.9
MEAN	10.7	8.95	10.1	17.4	26.9	15.5	9.00	2.73	.68	129	88.2	22.0
MAX	26	11	11	28	36	23	15	7.3	3.5	757	1130	167
MIN	8.4	6.3	9.0	10	22	12	5.9	.22	.04	.04	.39	2.8
AC-FT	655	533	620	1070	1490	952	536	168	40	7910	5420	1310
CAL YR 1976	TOTAL	85788.06	MEAN	234	MAX	1870	MIN	.52	AC-FT	170200		
WTR YR 1977	TOTAL	10439.00	MEAN	28.6	MAX	1130	MIN	.04	AC-FT	20710		

DOLORES RIVER BASIN

37

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 (4.0 km) downstream from West Paradox Creek and 4.3 mi (6.9 km) northeast of Bedrock.

DRAINAGE AREA.--2,145 mi² (5,556 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 4,910 ft (1,497 m), from topographic map. Prior to Feb. 1, 1972, at site 400 ft (120 m) upstream at datum 1.02 ft (0.311 m) higher.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation of about 41,000 acres (170 km²), of which about 33,000 acres (130 km²) is in the San Juan River basin.

AVERAGE DISCHARGE.--6 years, 370 ft³/s (10.48 m³/s), 268,100 acre-ft/yr (331 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,500 ft³/s (269 m³/s) Apr. 30, 1973, gage height, 12.88 ft (3.926 m), from floodmarks; minimum daily, 0.12 ft³/s (0.003 m³/s) July 17, 18, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 6, 1970, reached a stage of 11.25 ft or 3.429 m (revised), site and datum in use prior to Feb. 1, 1972 (discharge, 5,710 ft³/s or 162 m³/s), by slope-area measurement at site 1,400 ft (430 m) upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,670 ft³/s (189 m³/s) July 19, gage height, 11.14 ft (3.395 m); minimum daily, 0.12 ft³/s (0.003 m³/s) July 17, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	14	13	18	38	26	18	10	5.0	.41	30	6.3
2	20	14	14	18	31	28	17	10	5.0	.44	20	5.7
3	38	14	14	18	32	21	19	11	3.9	.41	15	17
4	30	14	15	17	37	21	18	11	2.9	3.7	12	130
5	19	14	16	18	40	19	16	7.4	2.2	125	9.5	80
6	20	14	16	19	38	19	17	8.6	2.0	230	7.4	30
7	19	14	15	20	37	20	16	8.0	1.9	8.9	6.3	14
8	18	14	16	20	31	20	15	7.4	1.8	4.1	5.4	8.9
9	16	13	16	20	30	21	14	7.4	1.7	2.4	4.8	7.7
10	15	13	17	20	28	21	14	4.8	1.3	1.4	2.4	6.3
11	15	13	14	22	28	18	13	3.7	2.2	.95	2.7	176
12	14	13	15	24	30	19	13	3.6	2.7	.68	15	80
13	14	13	15	24	30	19	12	4.1	2.7	.59	5.8	281
14	13	13	15	24	30	17	12	5.4	2.6	.59	1.7	93
15	13	14	16	22	28	17	11	8.3	1.5	.38	7.0	32
16	13	15	14	20	28	17	11	7.4	.95	.14	2290	22
17	13	14	15	20	28	17	11	5.0	.86	.12	860	12
18	13	14	15	22	30	17	10	4.2	.68	.12	1180	8.3
19	13	14	15	24	30	16	10	3.4	.68	1020	228	7.1
20	13	14	14	26	30	14	10	5.4	.59	720	71	6.1
21	13	14	14	26	32	14	10	3.7	.59	267	38	5.4
22	13	14	15	24	32	15	10	2.9	.59	2200	21	5.0
23	13	16	16	22	28	15	10	5.7	.59	345	79	4.6
24	13	19	17	24	26	16	10	5.9	.59	660	57	4.6
25	13	16	17	24	28	16	11	6.5	.50	2330	19	4.6
26	13	16	17	23	26	22	10	8.0	.50	374	13	4.4
27	13	12	17	23	28	23	10	9.2	.50	111	16	4.1
28	13	10	16	26	26	20	11	11	.47	228	13	4.1
29	13	9.8	16	28	---	17	11	12	.47	125	9.8	4.4
30	13	12	16	29	---	16	10	13	.50	70	8.3	4.4
31	13	---	17	31	---	18	---	18	---	55	7.1	---
TOTAL	495	413.8	478	696	860	579	380	232.0	48.46	8885.33	5055.2	1069.0
MEAN	16.0	13.8	15.4	22.5	30.7	18.7	12.7	7.48	1.62	287	163	35.6
MAX	38	19	17	31	40	23	19	18	5.0	2330	2290	281
MIN	13	9.8	13	17	26	14	10	2.9	.47	.12	1.7	4.1
AC-FT	982	821	948	1380	1710	1150	754	460	96	17620	10030	2120
CAL YR 1976	TOTAL	91480.50	MEAN	250	MAX	1920	MIN	1.7	AC-FT	181500		
WTR YR 1977	TOTAL	19191.79	MEAN	52.6	MAX	2330	MIN	.12	AC-FT	38070		

DOLORES RIVER BASIN

09172500 SAN MIGUEL RIVER NEAR PLACERVILLE, CO

LOCATION.--Lat 38°02'05"N, long 108°07'15"W, in NW¼SW¼ sec.30, T.44 N., R.11 W., San Miguel County, Hydrologic Unit 14030003, on right bank 0.7 mi (1.1 km) downstream from Specie Creek and 4.0 mi (6.4 km) northwest of Placerville.

DRAINAGE AREA.--308 mi² (798 km²).

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 (2,150.608 m) above mean sea level (U.S. Bureau of Reclamation bench mark). See WSP 1713 or 1733 for history of changes prior to Oct. 21, 1958.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 1,700 acres (6.88 km²) above station. One diversion from Fall Creek for irrigation of about 2,000 acres (8.09 km²) in Beaver and Saltado Creek basins. One small ditch diverts water from Leopard Creek to Uncompangre River basin. Slight regulation by Lake Hope and Trout Lake of Western Colorado Co., combined capacity, 5,040 acre-ft (6.21 hm³).

AVERAGE DISCHARGE.--41 years (water years 1911-12, 1931-34, 1943-77), 223 ft³/s (6.315 m³/s), 161,600 acre-ft/yr (199 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,000 ft³/s (283 m³/s) Sept. 5, 1909 (result of failure of Trout and Middle Reservoir Dams); minimum daily, 26 ft³/s (0.74 m³/s) Jan. 5, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 516 ft³/s (14.6 m³/s) June 7, gage height, 3.85 ft (1.173 m), no peak above base of 900 ft³/s (25 m³/s); maximum gage height, 5.59 ft (1.704 m) Dec. 18 (backwater from ice); minimum daily discharge, 28 ft³/s (0.79 m³/s) Dec. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	73	65	34	38	46	51	124	291	92	54	67
2	94	70	55	36	40	47	52	116	291	83	78	72
3	99	65	50	36	40	49	48	135	295	84	73	76
4	112	62	50	36	40	47	43	128	307	89	72	124
5	99	61	50	34	40	46	51	135	291	118	69	96
6	97	62	50	36	44	48	80	140	340	118	64	88
7	88	63	46	38	42	49	147	152	376	110	59	78
8	92	62	48	34	38	50	207	182	323	110	60	76
9	101	68	48	38	40	49	226	224	348	83	61	76
10	103	68	50	38	40	43	158	259	287	70	60	77
11	97	63	50	38	40	44	126	185	259	73	54	82
12	82	58	46	42	42	46	99	170	255	73	68	130
13	94	59	46	42	44	48	90	167	267	67	60	124
14	90	61	44	42	44	48	88	179	283	70	59	106
15	78	62	42	40	44	49	84	142	275	69	72	120
16	77	63	38	40	46	50	90	122	252	67	89	126
17	73	68	38	38	46	44	101	116	234	67	114	110
18	73	67	36	40	48	43	120	106	216	72	158	97
19	67	67	34	40	50	44	116	97	188	84	161	90
20	64	73	34	40	55	46	94	92	173	132	135	84
21	63	67	32	42	55	43	80	83	158	130	122	86
22	67	64	30	42	55	43	80	82	132	124	108	86
23	80	64	30	42	50	47	94	90	132	152	110	84
24	68	60	34	42	50	51	106	103	118	128	108	74
25	70	58	34	38	48	52	99	101	122	145	124	67
26	80	57	30	36	40	59	110	101	118	148	106	68
27	65	56	32	36	44	68	116	94	108	130	105	69
28	63	45	32	36	40	70	126	89	101	179	99	88
29	65	65	28	36	---	51	132	106	99	132	96	67
30	82	65	30	36	---	58	116	158	94	112	86	62
31	72	---	32	38	---	51	---	248	---	99	69	---
TOTAL	2556	1896	1264	1186	1243	1529	3130	4226	6733	3210	2803	2650
MEAN	82.5	63.2	40.8	38.3	44.4	49.3	104	136	224	104	90.4	88.3
MAX	112	73	65	42	55	70	226	259	376	179	161	130
MIN	63	45	28	34	38	43	43	82	94	67	59	62
AC-FT	5070	3760	2510	2350	2470	3030	6210	8380	13350	6370	5560	5260
CAL YR 1976	TOTAL	58036	MEAN	159	MAX	945	MIN	28	AC-FT	115100		
WTR YR 1977	TOTAL	32426	MEAN	88.8	MAX	376	MIN	28	AC-FT	64320		

NOTE.--NO GAGE-HEIGHT RECORD DEC. 23 TO MAR. 1.

DOLORES RIVER BASIN

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09172600 SALTADO CREEK NEAR NORWOOD, CO

LOCATION.--Lat 37°55'25", long 108°07'51", in NE¼NE¼ sec.12, T.42 N., R.12 W., San Miguel County, Hydrologic Unit 14030003, on right bank 150 ft (46 m) upstream from point of return flow from McCulloch Creek ditch and 18 mi (29 m) southeast of Norwood.

DRAINAGE AREA.--4.53 mi² (11.73 km²).

PERIOD OF RECORD.--April 1976 to current year (seasonal records only).

GAGE.--Water-stage recorder. Altitude of gage is 9,270 ft (2,825 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Seasonal station operated only for runoff period April to July. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23 ft³/s (0.65 m³/s) May 21, 1976, gage height, 2.44 ft (0.744 m); maximum gage height, 2.50 ft (0.762 m) Apr. 3, 1976, Apr. 26, 1977 (backwater from ice); minimum daily discharge, 0.02 ft³/s (0.001 m³/s) July 13, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9.8 ft³/s (0.28 m³/s) May 3, gage height, 2.05 ft (0.625 m); maximum gage height, 2.50 ft (0.762 m) Apr. 26 (backwater from ice); minimum daily discharge, 0.02 ft³/s (0.001 m³/s) July 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							.20	3.1	1.7	.23		
2							.20	3.1	1.7	.19		
3							.20	3.3	1.7	.23		
4							.30	2.8	1.8	.29		
5							.30	2.6	1.9	.57		
6							.40	2.6	1.9	.35		
7							.40	2.3	1.7	.79		
8							.50	2.6	1.9	.28		
9							.70	3.1	2.6	.11		
10							1.0	3.2	2.0	.09		
11							1.2	2.6	1.6	.07		
12							1.4	2.7	1.3	.03		
13							1.8	2.9	.99	.02		
14							2.2	3.6	.99	.17		
15							3.0	3.6	.93	.13		
16							4.0	3.9	.87	.05		
17							5.0	3.1	.69	.19		
18							6.0	2.8	.63	.42		
19							4.0	2.3	.51	.63		
20							2.0	2.2	.42	.93		
21							1.2	2.2	.39	.69		
22							2.0	2.0	.57	.63		
23							3.2	1.9	.42	1.5		
24							2.8	2.0	.51	.93		
25							2.2	2.0	.75	.87		
26							2.8	2.1	.51	.57		
27							3.0	2.0	.57	.45		
28							3.2	1.9	.42	.42		
29							3.1	1.7	.29	.32		
30							3.1	1.6	.45	.23		
31							---	1.9	---	.16		
TOTAL							61.40	79.7	32.71	12.54		
MEAN							2.05	2.57	1.09	.40		
MAX							6.0	3.9	2.6	1.5		
MIN							.20	1.6	.29	.02		
AC-FT							122	158	65	25		

DOLORES RIVER BASIN

09172700 GURLEY DITCH NEAR NORWOOD, CO

LOCATION.--Lat 38°00'54", long 108°14'27", in SE¼NE¼ sec.1, T.43 N., R.13 W., San Miguel County, Hydrologic Unit 14030003, on right bank 0.9 mi (1.4 km) upstream from Gurley Reservoir and 8.4 mi (13.5 km) south of Norwood.

PERIOD OF RECORD.--May 1975 to current year (irrigation season only).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 8,340 ft (2,542 m), from topographic map.

REMARKS.--Records good. Gurley ditch diverts water from tributaries of Beaver Creek to Gurley Reservoir. Water is used for irrigation of lands near Norwood.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 392 ft³/s (11.1 m³/s) June 5, 1975; no flow May 1, 2, 1975, Apr. 1, 1976, Apr. 1-7, Aug. 5-15, 1977.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							.00	64	22	2.0	1.2	.03
2							.00	62	22	2.0	.60	.02
3							.00	59	21	2.2	.15	1.8
4							.00	47	21	2.0	.00	3.5
5							.00	49	20	3.2	.00	2.8
6							.00	48	18	3.8	.00	1.5
7							.00	46	18	3.2	.00	1.2
8							8.0	46	18	1.8	.00	.90
9							10	46	18	1.5	.00	.60
10							20	46	15	1.0	.00	.60
11							18	30	12	.00	.00	1.2
12							23	26	11	.27	.00	9.1
13							23	26	8.5	.60	.00	7.0
14							24	24	7.5	1.0	.00	3.5
15							30	23	6.5	.90	.00	3.8
16							35	34	5.5	.75	2.8	4.5
17							50	38	4.5	.15	3.0	3.0
18							120	35	5.0	2.8	3.8	2.2
19							75	27	3.8	3.5	2.8	1.8
20							34	22	3.5	6.5	1.5	1.5
21							23	19	3.2	4.0	1.5	1.4
22							38	20	3.2	3.5	1.5	1.2
23							65	21	2.8	9.0	2.2	1.5
24							58	22	3.2	8.5	3.0	1.4
25							37	20	4.0	13	4.5	1.2
26							53	25	3.8	7.5	2.5	1.2
27							50	22	3.0	4.5	1.5	1.4
28							55	19	2.8	4.0	1.0	1.5
29							55	19	2.5	3.0	.75	1.4
30							55	20	2.5	2.2	.90	1.2
31							---	22	---	1.4	.30	---
TOTAL							959.00	1027	291.8	99.77	35.50	63.95
MEAN							32.0	33.1	9.73	3.22	1.15	2.13
MAX							120	64	22	13	4.5	9.1
MIN							.00	19	2.5	.00	.00	.02
AC-FT							1900	2040	579	198	70	127

09172800 WEST BEAVER CREEK NEAR NORWOOD, CO

LOCATION.--Lat 37°53'21", long 108°11'49", San Miguel County, Hydrologic Unit 14030003, on left bank 75 ft (23 m) downstream from trail bridge and 17.5 mi (28.2 km) southeast of Norwood.

DRAINAGE AREA.--4.83 mi² (12.51 km²).

PERIOD OF RECORD.--April 1976 to current year (seasonal records only).

GAGE.--Water-stage recorder. Altitude of gage is 9,750 ft (2,972 m), from topographic map.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 86 ft³/s (2.44 m³/s) May 17, 1976, gage height, 3.50 ft (1.067 m); maximum gage height, 5.83 ft (1.777 m) May 2, 1977 (backwater from ice); minimum daily discharge, 0.50 ft³/s (0.014 m³/s) Apr. 1, 1977.

EXTREMES FOR CURRENT SEASON.--Maximum discharge, about 40 ft³/s (1.13 m³/s) May 2, gage height, 5.83 ft (1.777 m) (backwater from ice); minimum daily, 0.50 ft³/s (0.014 m³/s) Apr. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							.50	22	6.2	1.1		
2							.60	20	5.8	1.1		
3							.70	18	5.5	1.0		
4							.70	16	5.8	1.3		
5							.80	15	5.5	1.8		
6							1.0	15	4.8	1.8		
7							1.2	15	4.6	1.1		
8							2.0	14	4.3	.84		
9							4.0	14	4.1	.76		
10							6.0	15	3.6	.68		
11							5.5	12	3.1	.60		
12							7.0	8.0	2.6	.60		
13							7.0	8.0	2.3	.68		
14							8.0	7.5	2.1	.68		
15							9.0	7.0	2.0	.60		
16							9.0	10	2.0	.68		
17							10	12	1.8	.84		
18							9.0	10	1.7	1.0		
19							8.0	8.5	1.6	1.4		
20							7.5	7.0	1.4	1.4		
21							7.5	6.0	1.4	1.3		
22							13	6.0	1.4	1.9		
23							18	6.5	1.4	3.4		
24							14	6.5	1.4	4.7		
25							12	6.0	1.7	4.8		
26							16	7.2	1.6	3.4		
27							16	6.8	1.3	2.9		
28							17	5.8	1.3	3.1		
29							17	5.5	1.3	2.3		
30							19	5.5	1.3	2.0		
31							---	5.8	---	1.7		
TOTAL							247.00	321.6	84.9	51.46		
MEAN							8.23	10.4	2.83	1.66		
MAX							19	22	6.2	4.8		
MIN							.50	5.5	1.3	.60		
AC-FT							490	638	168	102		

NOTE.--NO GAGE-HEIGHT RECORD APR. 1 TO MAY 23.

DOLORES RIVER BASIN

09173000 BEAVER CREEK NEAR NORWOOD, CO

LOCATION.--Lat 37°58'13", Long 108°11'42", in NE¼SW¼ sec.21, T.43 N., R.12 W., San Miguel County, Hydrologic Unit 14030003, on right bank 250 ft (76 m) downstream from county road culvert, 550 ft (170 m) upstream from Goat Creek, and 13 mi (21 km) southeast of Norwood.

DRAINAGE AREA.--40.6 mi² (105.2 km²).

PERIOD OF RECORD.--October 1941 to September 1961, October 1962 to September 1967, April 1975 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 8,010 ft (2,441 m), from topographic map. Prior to July 16, 1952, at site 135 ft (41 m) downstream at different datums. July 17, 1952, to Sept. 30, 1961, at site 85 ft (26 m) downstream at different datum. Oct. 1, 1962, to Sept. 30, 1967, at site 200 ft (61 m) upstream at datum 8,016.81 ft (2,443.524 m) above mean sea level (U.S. Bureau of Reclamation bench mark). Datum lowered 2.00 ft (0.610 m) Oct. 1, 1948, and raised 8.00 ft (2.438 m) Oct. 1, 1962. Concrete control July 15, 1964, to Sept. 30, 1967.

REMARKS.--Records good except those for winter period, which are fair. Gurley ditch (station 09172700) diverts water above station to Gurley Reservoir, capacity, 8,800 acre-ft (10.9 hm³); prior to September 1948, 3,200 acre-ft (3.95 hm³), for irrigation of about 12,000 acres (48.6 km²) in Naturita Creek drainage.

AVERAGE DISCHARGE.--26 years (water years 1942-61, 1963-67, 1976-77), 15.3 ft³/s (0.4333 m³/s), 11,080 acre-ft/yr (13.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 750 ft³/s (21.2 m³/s) June 9 or 10, 1952, gage height, 5.67 ft (1.728 m), from floodmarks, site and datum then in use, from rating curve extended above 370 ft³/s (10 m³/s); no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 71 ft³/s (2.01 m³/s) Apr. 11, gage height, 3.98 ft (1.213 m); maximum gage height, 4.72 ft (1.439 m) Apr. 9 (backwater from ice); no flow July 10-16, Aug. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	1.2	.90	.40	.60	.70	4.6	6.3	3.9	.22	.44	.68
2	2.1	1.3	.80	.50	.60	.70	4.4	6.0	3.8	.20	.35	.72
3	2.6	1.3	.70	.50	.60	.70	4.6	6.0	3.8	.10	.15	.76
4	2.9	1.3	.70	.50	.60	.80	4.2	5.4	3.8	.12	.08	.80
5	2.6	1.3	.70	.40	.60	.70	5.0	5.4	3.8	.22	.02	.52
6	2.5	1.2	.70	.50	.70	.70	7.0	4.4	3.5	.25	.01	.38
7	2.4	1.1	.60	.40	.60	.70	11	4.1	2.7	.20	.00	.32
8	2.1	1.1	.60	.40	.60	.80	19	4.1	2.7	.14	.00	.30
9	1.9	1.0	.70	.50	.60	1.0	24	3.9	2.4	.04	.08	.28
10	1.7	1.0	.70	.50	.60	.90	30	4.1	2.2	.00	.56	.28
11	1.7	.90	.70	.60	.60	1.1	40	3.6	2.1	.00	.64	.38
12	1.7	.90	.60	.60	.60	1.2	38	3.5	1.9	.00	.72	.60
13	1.7	.90	.60	.60	.70	1.3	36	3.6	1.7	.00	.87	.40
14	1.7	.80	.50	.60	.70	1.2	27	4.6	1.7	.00	.80	.40
15	1.7	.80	.50	.60	.70	1.3	21	4.6	1.4	.00	1.2	.44
16	1.7	.80	.50	.50	.70	1.5	17	4.3	1.4	.00	1.7	.35
17	1.7	.80	.50	.50	.70	1.4	12	3.8	1.3	.14	1.8	.28
18	1.7	.80	.50	.50	.80	1.5	12	3.3	1.2	.20	2.2	.28
19	1.6	.80	.40	.50	.80	1.8	9.2	3.1	1.1	.64	1.7	.28
20	1.6	.80	.40	.50	.80	2.0	6.0	3.1	.94	1.0	1.4	.25
21	1.6	.90	.40	.60	.80	2.2	5.4	3.0	.76	.94	1.3	.22
22	1.5	.80	.40	.60	.70	2.6	6.0	2.9	.72	.80	1.3	.20
23	1.5	.80	.40	.60	.70	2.6	6.3	2.9	.64	1.1	1.4	.22
24	1.4	.80	.40	.60	.70	3.4	5.8	2.9	.64	1.4	2.0	.20
25	1.5	.80	.40	.50	.70	4.2	5.4	4.1	.80	1.2	2.1	.20
26	1.6	.80	.40	.50	.60	3.8	5.6	4.3	.87	.94	1.4	.20
27	1.3	.90	.40	.50	.70	4.6	5.6	3.9	.72	.76	1.0	.22
28	1.2	.90	.40	.50	.60	5.5	7.0	3.6	.56	.72	.80	.25
29	1.1	.90	.30	.50	---	5.0	6.7	3.6	.44	.68	.76	.25
30	1.1	.90	.40	.60	---	4.8	6.5	3.8	.35	.60	.72	.18
31	1.1	---	.40	.60	---	4.8	---	3.8	---	.56	.68	---
TOTAL	54.6	28.60	16.60	16.20	18.70	65.50	392.3	126.0	53.84	13.17	28.18	10.84
MEAN	1.76	.95	.54	.52	.67	2.11	13.1	4.06	1.79	.42	.91	.36
MAX	2.9	1.3	.90	.60	.80	5.5	40	6.3	3.9	1.4	2.2	.80
MIN	1.1	.80	.30	.40	.60	.70	4.2	2.9	.35	.00	.00	.18
AC-FT	108	57	33	32	37	130	778	250	107	26	56	22
CAL YR 1976	TOTAL	2515.47	MEAN	6.87	MAX	136	MIN	.10	AC-FT	4990		
WTR YR 1977	TOTAL	824.53	MEAN	2.26	MAX	40	MIN	.00	AC-FT	1640		

NOTE.--NO GAGE-HEIGHT RECORD NOV. 27 TO MAR. 29.

NOTE.--NO GAGE-HEIGHT RECORD NOV. 27 TO MAR. 29.

09174700 WEST NATURITA CREEK AT UPPER STATION, NEAR NORWOOD, CO

LOCATION.--Lat 37°54'39", long 108°20'08", unsurveyed, San Miguel County, Hydrologic Unit 14030003, on left bank 1,000 ft (300 m) downstream from Spectacle Creek and 22 mi (35 km) southwest of Norwood.

DRAINAGE AREA.--7.31 mi² (18.93 km²).

PERIOD OF RECORD.--May 1975 to current year (seasonal record only).

GAGE.--Water-stage recorder. Altitude of gage is 8,180 ft (2,490 m), from topographic map.

REMARKS.--Records good. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 96 ft³/s (2.72 m³/s) June 3, 1975, gage height, 2.28 ft (0.695 m); minimum daily, 0.40 ft³/s (0.011 m³/s) Apr. 2-4, July 10, 1977.

EXTREMES FOR CURRENT SEASON.--Maximum discharge, 6.9 ft³/s (0.20 m³/s) July 24, gage height, 1.59 ft (0.485 m); minimum daily, 0.40 ft³/s (0.011 m³/s) Apr. 2-4, July 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	.44	3.2	1.8	.48		
2						---	.40	3.6	1.8	.48		
3						---	.40	3.4	1.8	.48		
4						---	.40	3.0	1.7	.60		
5						---	.44	3.0	1.7	.76		
6						---	.72	3.0	1.6	.72		
7						---	1.2	2.8	1.6	.60		
8						---	1.5	2.6	1.8	.52		
9						---	1.5	2.8	2.0	.44		
10						---	1.8	2.6	1.6	.40		
11						---	2.2	2.3	1.4	.44		
12						---	1.8	2.3	1.2	.44		
13						---	1.5	2.6	1.2	.48		
14						---	1.5	3.0	1.1	.52		
15						---	1.8	3.2	.98	.56		
16						---	2.2	3.8	.98	.48		
17						---	2.9	4.4	.80	.57		
18						---	3.6	4.6	.76	1.2		
19						---	3.8	4.2	.68	.80		
20						---	3.6	3.8	.64	1.4		
21						---	3.0	3.4	.64	.89		
22						---	1.4	3.2	.60	.80		
23						---	2.0	2.9	.60	1.2		
24						---	3.6	2.8	.72	2.3		
25						---	3.4	2.9	.76	1.8		
26						---	2.2	2.9	.68	1.1		
27						---	3.0	2.8	.64	.76		
28						---	2.8	2.6	.56	.80		
29						.60	3.2	2.4	.52	.68		
30						.52	3.2	2.2	.56	.56		
31						.52	---	2.0	---	.56		
TOTAL						---	61.50	94.3	33.42	23.82		
MEAN						---	2.05	3.04	1.11	.77		
MAX						---	3.8	4.6	2.0	2.3		
MIN						---	.40	2.0	.52	.40		
AC-FT						---	122	187	66	47		

DULORES RIVER BASIN

09175000 WEST NATURITA CREEK NEAR NORWOOD, CO
(Formerly published as Naturita Creek near Norwood)

LOCATION--Lat 37°58'33", long 108°19'38", in SW¼NW¼ sec.20, T.43 N., R.13 W., San Miguel County, Hydrologic Unit 14030003, on right bank 500 ft (150 m) downstream from Middle Naturita Creek, 0.4 mi (0.6 km) downstream from Miramonte Reservoir, and 11 mi (18 km) south of Norwood.

DRAINAGE AREA--53.0 mi² (137.3 km²).

PERIOD OF RECORD--October 1940 to September 1952, April 1975 to current year. Prior to April 1975, published as "Naturita Creek near Norwood." Monthly discharge only for some periods, published in MSP 1313.

GAGE--Water-stage recorder. Altitude of gage is 7,601 ft (2,317 m), from topographic map.

REMARKS--Records good. Many small diversions above station for irrigation of few hundred acres above and below station and diversion by Lilyland Canal to Dry Creek basin for few hundred acres; flow regulated by Miramonte Reservoir, capacity, 6,800 acre-ft (8.38 hm³). Small Colorado Fish and Game Department lake would have very little effect on flow.

AVERAGE DISCHARGE--14 years (water years 1941-52, 1976-77), 9.49 ft³/s (0.2688 m³/s), 6,880 acre-ft/yr (8.48 hm³/yr).

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 943 ft³/s (26.7 m³/s) July 24, 1945, gage height, 5.19 ft (1.582 m), site and datum then in use, from rating curve extended above 200 ft³/s (5.7 m³/s), on basis of slope-area measurement at gage height 4.80 ft (1.463 m); no flow at times in 1945, 1948, 1950-51.

EXTREMES FOR CURRENT YEAR--Maximum discharge, 98 ft³/s (1.25 m³/s) Aug. 17, gage height, 4.38 ft (1.335 m); minimum daily, 0.49 ft³/s (0.014 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	.84	1.0	.88	.74	1.1	.66	.72	1.1	.78	.64	.54
2	6.8	.84	.96	.84	.70	1.1	.68	.72	1.1	.80	.64	.54
3	7.0	.84	.96	.80	.70	1.0	.68	.74	1.1	.78	.62	.55
4	7.0	.84	1.0	.80	.70	1.0	.70	.80	1.0	.84	.62	.55
5	7.0	.84	1.0	.84	.76	1.0	.74	.80	1.1	.88	.62	.54
6	7.0	.84	1.0	.80	.70	1.0	.76	.78	1.2	.64	.62	.54
7	7.2	.84	.92	.80	.70	.90	.78	.78	1.2	.64	.60	.55
8	7.2	.88	.92	.84	.70	.88	.80	.78	1.3	.64	.60	.55
9	7.2	.88	.92	.80	.70	.88	.80	.80	1.3	.64	.60	.57
10	7.2	.88	1.0	.80	.78	.84	.76	.80	1.2	.64	.62	.60
11	7.2	.88	.96	.84	.78	.80	.74	.80	1.1	.66	.62	.62
12	7.4	.92	.96	.80	.78	.80	.74	.88	1.0	.68	.60	.68
13	7.4	.92	.96	.78	.76	.78	.72	.96	1.0	.70	.60	.64
14	7.4	.92	.92	.78	.78	.80	.72	1.2	.96	.70	.62	.64
15	7.4	.92	.96	.76	.78	.80	.72	1.2	.92	.72	.72	.66
16	7.2	.96	.92	.76	.78	.70	.72	1.1	.92	.72	3.0	.60
17	7.2	.92	.92	.76	.80	.70	.70	.96	.84	.76	6.3	.60
18	7.2	.92	.92	.76	.80	.74	.70	.96	.84	.70	.78	.59
19	7.2	.92	.92	.76	.84	.70	.70	1.0	.80	.76	.70	.59
20	7.2	.92	.92	.76	.92	.70	.70	1.0	.78	.72	.64	.58
21	7.2	.96	.92	.76	.96	.74	.70	1.0	.78	.70	.64	.57
22	7.2	.96	.92	.78	.90	.88	.68	1.0	.80	.70	.59	.56
23	7.2	.96	.88	.78	.90	1.7	.70	1.0	.80	.72	.59	.55
24	7.2	.92	.84	.70	1.0	1.7	.72	1.1	.80	.74	.59	.54
25	7.2	.92	.88	.80	1.0	.72	.72	1.1	.84	.72	.62	.53
26	3.8	1.0	.88	.80	1.0	.72	.72	1.1	.80	.68	.57	.52
27	.88	.96	.84	.80	1.0	.76	.76	1.1	.80	.68	.56	.52
28	.84	.92	.84	.80	1.0	.60	.76	1.1	.80	.66	.55	.51
29	.84	.92	.88	.80	---	.66	.78	1.1	.78	.60	.54	.50
30	.84	.96	.88	.70	---	.60	.74	1.1	.78	.66	.53	.49
31	.84	---	.88	.70	---	.66	---	1.1	---	.64	.54	---
TOTAL	187.04	27.20	28.68	24.38	22.96	26.98	21.80	29.58	28.74	21.96	27.08	17.02
MEAN	6.03	.91	.93	.79	.82	.87	.73	.95	.96	.71	.87	.57
MAX	7.4	1.0	1.0	.88	1.0	1.7	.80	1.2	1.3	.88	6.3	.68
MIN	.84	.84	.84	.70	.70	.60	.66	.72	.78	.64	.53	.49
AC-FT	371	54	57	43	46	54	43	59	57	44	54	34
CAL YR 1976	TOTAL	1860.42	MEAN	5.08	MAX	38	MIN	.84	AC-FT	3690		
WTR YR 1977	TOTAL	463.42	MEAN	1.27	MAX	7.4	MIN	.49	AC-FT	919		

09175200 LILYLANDS CANAL NEAR NORWOOD, CO

LOCATION.--Lat 38°01'24", long 108°23'18", in SW¼SW¼ sec.35, T.44 N., R.14 W., San Miguel County, Hydrologic Unit 14030003, on left bank 500 ft (150 m) north of Uncompahgre National Forest Boundary and 8.5 mi (13.7 km) southwest of Norwood.

PERIOD OF RECORD.--May 1975 to current year (irrigation season only).

GAGE.--Water-stage recorder. Altitude of gage is 7,940 ft (2,420 m), from topographic map.

REMARKS.--Records good. Lilyland Canal diverts water from Naturita Creek and tributaries for irrigation of 500 acres east of Dry Creek basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 44 ft³/s (1.25 m³/s) May 22, 1976; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							.00	5.2	1.2	.20	.00	.00
2							.00	5.1	1.2	.21	.00	.00
3							.00	5.1	1.1	.18	.00	1.5
4							.00	4.4	1.1	.20	.00	2.5
5							.00	3.9	1.0	.28	.00	2.2
6							.00	3.6	.46	.21	.00	1.5
7							.00	3.4	.43	.09	.00	.00
8							.80	3.3	.46	.00	.00	.00
9							1.2	3.2	.43	.00	.00	.00
10							2.0	3.1	.40	.00	.00	.00
11							1.8	3.0	.28	.00	.00	.00
12							2.4	2.9	.31	.00	.00	.00
13							2.4	2.8	.28	.00	.00	.00
14							3.0	3.4	.34	.00	.00	.00
15							3.8	3.0	.28	.00	2.7	.08
16							5.2	2.6	.28	.00	7.0	.06
17							6.3	1.8	.25	.00	11	.00
18							7.0	1.7	.23	.00	14	.00
19							7.1	1.7	.34	.47	2.8	.00
20							7.1	1.6	.37	.78	2.3	.00
21							6.8	1.7	.34	.93	1.8	.00
22							6.5	1.7	.37	1.1	.96	.00
23							6.3	1.6	.34	.51	.78	.00
24							6.3	1.6	.34	3.3	.40	.00
25							6.1	1.6	.43	3.0	.00	.00
26							6.0	1.4	.43	.25	.00	.00
27							5.3	1.4	.28	.21	.00	.00
28							5.8	1.4	.25	.20	.00	.00
29							5.3	1.3	.23	.18	.00	.00
30							5.2	1.2	.23	.16	.00	.00
31							---	1.2	---	.14	.00	---
TOTAL							109.70	80.9	13.98	12.60	43.74	7.84
MEAN							3.66	2.61	.47	.41	1.41	.26
MAX							7.1	5.2	1.2	3.3	14	2.5
MIN							.00	1.2	.23	.00	.00	.00
AC-FT							218	160	28	25	87	16

DOLORES RIVER BASIN

09175400 MAVERICK DRAW NEAR NORWOOD, CO

LOCATION.--Lat 38°10'32", Long 108°19'52", in SW₄SW₄ sec.5, T.45 N., R.13 W., Montrose County, Hydrologic Unit 14030003, on left bank 2.0 mi (3.2 km) upstream from Smugglers ditch headgate and 3.5 mi (5.6 km) northwest of Norwood.

DRAINAGE AREA.--41.3 mi² (107.0 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 6,660 ft (2,030 m), from topographic map.

REMARKS.--Records good. Natural flow of stream affected by diversions for irrigation of 72 acres (291,000 m²) above station and 35 acres (142,000 m²) below.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40 ft³/s (1.13 m³/s) Feb. 9, 1976, gage height, 3.45 ft (1.052 m); minimum daily, 0.03 ft³/s (0.001 m³/s) Aug. 29, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10 ft³/s (0.28 m³/s) Aug. 17, gage height, 2.80 ft (0.853 m); minimum daily, 0.03 ft³/s (0.001 m³/s) Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	UCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	2.0	2.0	1.4	2.0	1.8	1.3	1.2	.20	.35	.18	.12
2	2.0	2.0	2.0	1.4	2.0	1.5	1.3	1.2	.30	.35	.15	.13
3	2.1	2.2	2.0	1.5	1.8	.60	1.5	1.3	.32	.32	.14	.18
4	2.9	2.5	1.8	1.6	1.9	.60	1.6	1.2	.38	.40	.14	.15
5	2.4	2.8	1.8	1.7	1.9	.56	1.6	.92	.28	.32	.12	.14
6	2.4	2.8	1.6	1.7	1.9	.60	1.6	.86	.25	.35	.12	.13
7	2.4	2.8	1.8	1.6	1.9	.72	1.6	.86	.20	.32	.11	.10
8	2.1	2.9	1.6	1.9	1.9	1.1	1.6	.92	.20	.28	.10	.08
9	2.0	2.8	1.6	1.8	1.9	1.7	1.6	.92	.35	.25	.09	.09
10	2.2	2.8	1.6	1.8	1.9	1.4	1.6	.68	.40	.22	.07	.10
11	2.2	2.9	1.6	1.8	1.9	1.1	1.6	.72	.38	.22	.10	.14
12	2.7	2.9	1.6	1.7	1.7	1.0	1.4	.72	.35	.20	.13	.20
13	2.5	3.0	1.6	1.8	1.7	1.3	1.3	.72	.30	.20	.12	.18
14	2.5	3.1	1.6	1.7	1.7	1.3	1.3	.98	.25	.18	.12	.18
15	2.5	3.3	1.6	1.8	1.7	1.3	1.3	.98	.28	.20	.18	.22
16	2.4	3.1	1.5	1.7	1.7	2.5	1.1	.86	.28	.18	.30	.22
17	2.5	3.0	1.5	1.7	1.7	1.8	1.2	.76	.28	.20	1.0	.18
18	2.7	3.0	1.6	1.7	1.7	1.3	1.2	.64	.30	.18	.66	.14
19	2.7	3.1	1.6	1.8	1.7	1.3	1.2	.68	.28	.36	.12	.13
20	2.6	3.0	1.6	1.6	1.7	1.4	1.2	.56	.35	.25	.12	.13
21	2.6	2.9	1.3	1.8	1.7	1.5	1.2	.68	.48	.30	.11	.11
22	2.7	2.8	1.3	1.8	1.6	1.6	.92	.64	.40	.30	.11	.12
23	2.8	2.8	1.3	2.0	1.3	1.7	.80	.72	.38	.30	.11	.13
24	2.8	2.7	1.3	1.9	1.6	1.8	.76	.60	.38	.30	.12	.12
25	2.8	2.6	1.3	1.9	1.6	2.1	.80	.48	.44	.30	.11	.11
26	2.9	2.6	1.3	1.9	1.3	2.3	.92	.44	.32	.28	.11	.11
27	2.9	2.0	1.3	1.9	1.4	2.1	.98	.56	.40	.28	.11	.12
28	2.9	2.0	1.5	1.8	1.5	1.7	1.1	.38	.38	.25	.07	.11
29	2.7	2.0	1.5	1.9	---	1.5	1.3	.30	.35	.25	.03	.10
30	2.7	2.1	1.5	1.7	---	1.4	1.3	.28	.35	.22	.11	.10
31	2.1	---	1.5	1.7	---	1.4	---	.25	---	.20	.13	---
TOTAL	77.5	80.5	48.7	54.0	48.3	43.98	38.18	23.01	9.81	8.31	5.19	4.07
MEAN	2.50	2.68	1.57	1.74	1.73	1.42	1.27	.74	.33	.27	.17	.14
MAX	2.9	3.3	2.0	2.0	2.0	2.5	1.6	1.3	.48	.40	1.0	.22
MIN	1.8	2.0	1.3	1.4	1.3	.56	.76	.25	.20	.18	.03	.08
AC-FT	154	160	97	107	96	87	76	46	19	16	10	8.1
CAL YR 1976	TOTAL	1395.60	MEAN	3.81	MAX	18	MIN	1.2	AC-FT	2770		
WTR YR 1977	TOTAL	441.55	MEAN	1.21	MAX	3.3	MIN	.03	AC-FT	876		

09175500 SAN MIGUEL RIVER AT NATURITA, CO

LOCATION.--Lat 38°13'04", long 108°33'57", in NE¼NW¼ sec.30, T.46 N., R.15 W., Montrose County, Hydrologic Unit 14030003, on left bank 20 ft (6 m) downstream from bridge on State Highway 97 in Naturita and 1.2 mi (1.9 km) downstream from Naturita Creek.

DRAINAGE AREA.--1,069 mi² (2,769 km²).

PERIOD OF RECORD.--October 1917 to September 1929, May 1940 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WRD Colo. 1972: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,392.85 ft (1,643.74 m) above mean sea level. Apr. 26, 1918, to Sept. 2, 1926, nonrecording gage, and Sept. 3, 1926, to Sept. 30, 1929, water-stage recorder, at same site at different datums. Oct. 1, 1940, to Dec. 9, 1941, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter period which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation of about 22,000 acres (89.0 km²) above station and 4,000 acres (16.2 km²) below, and return flow from irrigated areas.

AVERAGE DISCHARGE.--50 years, 329 ft³/s (9.317 m³/s), 238,400 acre-ft/yr (294 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,100 ft³/s (201 m³/s) Apr. 15, 1942, gage height, 9.80 ft (2.987 m), from rating curve extended above 3,800 ft³/s (110 m³/s); minimum daily, 1.6 ft³/s (0.045 m³/s) July 16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 990 ft³/s (28.0 m³/s) Aug. 16, no peak above base of 1,800 ft³/s (51 m³/s); maximum gage height, 3.84 ft (1.170 m) Apr. 10; minimum daily discharge, 1.6 ft³/s (0.045 m³/s) July 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	89	44	40	48	55	69	61	207	8.5	42	25
2	88	100	50	44	48	73	68	68	212	7.5	34	15
3	89	85	55	46	50	63	63	62	203	4.5	24	10
4	119	83	60	46	48	58	56	73	212	24	22	40
5	143	81	65	44	50	55	56	64	208	21	14	58
6	125	79	65	42	55	48	70	72	218	45	11	39
7	125	78	50	48	50	54	151	75	304	42	7.0	22
8	115	78	55	40	48	58	228	92	251	22	6.5	16
9	127	79	55	48	48	39	328	118	260	19	3.7	11
10	125	84	60	48	50	24	440	167	212	8.0	3.7	7.5
11	125	85	60	46	50	15	233	136	171	2.5	3.4	24
12	118	76	55	50	50	42	134	99	157	1.9	4.0	44
13	115	74	50	50	55	61	101	100	159	2.5	5.5	72
14	120	75	50	50	55	70	75	123	172	3.7	5.5	56
15	115	79	48	50	55	58	63	117	167	1.9	15	55
16	106	79	46	48	60	62	57	81	153	1.6	249	63
17	103	68	46	46	60	73	61	68	141	19	70	60
18	100	52	42	50	60	63	80	54	128	10	218	43
19	100	25	42	50	65	53	88	44	112	32	128	32
20	93	27	42	50	65	58	69	39	92	24	110	29
21	92	37	40	55	70	57	42	34	81	72	90	22
22	90	33	38	55	70	60	22	26	63	93	74	16
23	94	36	38	55	65	67	22	20	46	109	58	20
24	107	76	38	50	60	78	36	17	45	106	62	19
25	92	70	40	46	60	90	43	24	37	94	66	13
26	106	68	38	44	48	85	34	23	37	92	60	9.8
27	101	55	40	44	55	93	47	30	30	84	55	12
28	90	50	40	44	48	104	61	25	20	86	50	12
29	84	36	34	46	---	89	84	17	15	96	45	18
30	94	40	36	46	---	69	66	44	11	73	40	16
31	104	---	38	46	---	74	---	129	---	53	35	---
TOTAL	3295	1977	1460	1467	1546	1948	2947	2102	4124	1258.6	1611.3	879.3
MEAN	106	65.9	47.1	47.3	55.2	62.8	98.2	67.8	137	40.6	52.0	29.3
MAX	143	100	65	55	70	104	440	167	304	109	249	72
MIN	84	25	34	40	48	15	22	17	11	1.6	3.4	7.5
AC-FT	6540	3920	2900	2910	3070	3860	5850	4170	8180	2500	3210	1740
CAL YR 1976	TOTAL	63603.0	MEAN	174	MAX	805	MIN	11	AC-FT	126200		
WTR YR 1977	TOTAL	24615.2	MEAN	67.4	MAX	440	MIN	1.6	AC-FT	48820		

DOLORES RIVER BASIN

09175900 DRY CREEK NEAR NATURITA, CO

LOCATION.--Lat 38°05'32", long 108°37'17", in NE¼NW¼ sec.10, T.44 N., R.16 W., San Miguel County, Hydrologic Unit 14030003, on right bank 50 ft (15 m) upstream from ford, 0.3 mi (0.5 km) upstream from unnamed tributary, 1.2 mi (1.9 km) downstream from Dead Horse Creek, 5.0 mi (8.0 km) northwest of Basin, and 14 mi (23 km) south of Naturita.

DRAINAGE AREA.--78.6 mi² (203.6 km²).

PERIOD OF RECORD.--July 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,270 ft (1,911 m), from topographic map.

REMARKS.--Records fair. Diversions for irrigation above station. Water is imported above station from Naturita Creek.

AVERAGE DISCHARGE.--11 years, 2.64 ft³/s (0.0748 m³/s), 1,910 acre-ft/yr (2.36 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,660 ft³/s (160 m³/s) Sept. 5, 1970, gage height, 8.31 ft (2.533 m), from rating curve extended above 140 ft³/s (4.0 m³/s), on basis of slope-area measurements at gage heights 4.57 and 8.31 ft (1.393 and 2.533 m); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.5 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
July 21	2330	760 21.5	5.50 1.676	Aug. 16	0430	*3,440 97.4	7.25 2.210
July 24	1830	2,010 56.9	6.42 1.957	Aug. 17	2330	2,300 65.1	6.61 2.015

No flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	.00	.00	.00	.00	.00	.06	.00	.00	.00	.00	.00
2	.20	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00
3	.10	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.22
4	.00	.00	.00	.00	.00	.00	.04	.00	.00	.34	.00	.35
5	.00	.00	.00	.00	.00	.00	.05	.00	.00	9.3	.00	10
6	.00	.00	.00	.00	.00	.00	.03	.00	.00	1.4	.00	3.0
7	.00	.00	.00	.00	.00	.00	.10	.00	.00	.03	.00	.20
8	.00	.00	.00	.00	.00	.00	.07	.00	.00	.02	.00	.02
9	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
12	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.24	7.1
13	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.02	.76
14	.00	.02	.00	.00	.00	.02	.00	.00	.00	.00	18	.16
15	.00	.02	.00	.00	.00	.08	.00	.00	.00	.00	70	21
16	.00	.01	.00	.00	.00	.10	.00	.00	.00	.00	627	.31
17	.00	.01	.00	.00	.00	.64	.00	.00	.00	.00	178	.16
18	.00	.02	.00	.00	.00	.40	.00	.00	.00	.33	204	.08
19	.00	.02	.00	.00	.00	.08	.00	.00	.00	10	4.0	.07
20	.00	.02	.00	.00	.00	.09	.00	.00	.00	26	1.0	.07
21	.00	.02	.00	.00	.00	.10	.00	.00	.00	44	.50	.06
22	.00	.02	.00	.00	.00	.09	.00	.00	.00	34	.30	.05
23	.00	.02	.00	.00	.00	.39	.00	.00	.00	65	.00	.05
24	.00	.02	.00	.00	.00	.70	.00	.00	.00	184	.00	.04
25	.00	.02	.00	.00	.00	.52	.00	.00	.00	19	.30	.03
26	.00	.02	.00	.00	.00	.46	.00	.00	.00	10	.00	.02
27	.00	.01	.00	.00	.00	.37	.00	.00	.00	3.0	.00	.02
28	.00	.00	.00	.00	.00	.25	.00	.00	.00	1.0	.00	.02
29	.00	.00	.00	.00	---	.13	.00	.00	.00	.00	.00	.01
30	.00	.00	.00	.00	---	.03	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.04	---	.00	---	.00	.00	---
TOTAL	1.10	.27	.00	.00	.00	4.49	.56	.00	.00	441.08	1102.76	100.24
MEAN	.035	.009	.000	.000	.000	.14	.019	.000	.000	14.2	35.6	3.34
MAX	.80	.02	.00	.00	.00	.70	.10	.00	.00	184	627	35
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	2.2	.5	.00	.00	.00	8.9	1.1	.00	.00	875	2190	199

CAL YR 1976 TOTAL 482.77 MEAN 1.32 MAX 73 MIN .00 AC-FT 958
WTR YR 1977 TOTAL 1650.50 MEAN 4.52 MAX 627 MIN .00 AC-FT 3270

NOTE.--NO GAGE-HEIGHT RECORD DEC. 6 TO MAR. 1.

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 (6 m) downstream from bridge on State Highway 141, 400 ft (120 m) downstream from Tabeguache Creek, and 1.5 mi (2.4 km) southeast of Uravan.

DRAINAGE AREA.--1,499 mi² (3,882 km²).

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Altitude of gage is 5,000 ft (1,524 m), from topographic map. Prior to Sept. 3, 1959, at site 0.5 mi (0.8 km) downstream at different datum.

REMARKS.--Records good except those for winter periods, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation of about 28,000 acres (113 km²) above station, and return flow from irrigated areas.

AVERAGE DISCHARGE.--12 years (water years 1955-62, 1974-77), 312 ft³/s (8.835 m³/s), 226,000 acre-ft/yr (279 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,690 ft³/s (189 m³/s) Apr. 19, 1958, gage height, 11.75 ft (3.581 m), site and datum then in use; minimum daily, 9.4 ft³/s (0.27 m³/s) Aug. 10, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 6, 1970, reached a stage of 12.6 ft (3.84 m), from floodmarks, discharge, 8,910 ft³/s (252 m³/s), by slope-area measurement at site 5.5 mi (8.8 km) downstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (57 m³/s) and maximum (#):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
July 24	2300	2,860 81.0	7.59 2.313	Aug. 18	0300	*3,140 88.9	7.80 2.377
Aug. 16	1100	2,510 71.1	7.32 2.231				

Minimum daily discharge, 9.4 ft³/s (0.27 m³/s) Aug. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	92	48	42	50	54	77	70	218	34	64	45
2	108	95	55	46	50	71	71	77	250	32	47	36
3	120	88	55	50	55	63	67	70	244	29	32	32
4	120	82	60	50	50	58	61	87	259	29	26	137
5	168	79	65	46	55	52	55	77	256	103	24	71
6	142	77	65	44	60	49	67	88	259	70	23	55
7	138	76	55	50	55	48	146	92	331	71	22	44
8	126	76	60	42	50	60	229	110	298	56	20	35
9	132	74	60	50	50	56	328	140	301	43	16	30
10	134	80	65	50	55	35	403	185	274	37	9.4	27
11	134	84	65	48	55	29	283	168	223	26	12	104
12	124	77	55	55	55	34	180	124	208	22	11	119
13	116	71	50	55	55	61	130	126	208	22	15	88
14	126	73	49	55	60	80	94	152	212	25	15	80
15	120	77	50	55	60	59	82	157	218	22	238	87
16	108	76	50	50	65	61	73	122	208	21	1140	87
17	104	74	50	48	65	76	74	90	190	21	245	79
18	99	64	46	50	65	70	92	80	190	59	890	64
19	99	36	48	50	70	52	108	70	159	38	201	54
20	92	36	44	55	70	59	92	63	130	95	128	49
21	90	46	40	60	76	59	61	54	112	161	101	47
22	90	48	40	60	76	60	43	48	99	441	87	40
23	92	40	40	55	66	68	35	40	79	229	76	41
24	108	66	40	50	61	79	40	37	74	576	74	40
25	92	67	44	48	66	97	53	40	71	373	82	36
26	99	71	42	46	52	97	44	43	64	140	79	32
27	104	58	42	46	55	104	49	43	63	126	68	31
28	90	53	42	46	50	120	68	42	48	112	64	32
29	87	40	36	48	---	104	97	37	41	144	59	32
30	90	44	38	48	---	76	84	40	36	99	56	39
31	106	---	40	48	---	79	---	114	---	79	53	---
TOTAL	3470	2020	1539	1546	1652	2070	3286	2686	5323	3335	3977.4	1693
MEAN	112	67.3	49.6	49.9	59.0	66.8	110	86.6	177	108	128	56.4
MAX	168	95	65	60	76	120	403	185	331	576	1140	137
MIN	87	36	36	42	50	29	35	37	36	21	9.4	27
AC-FT	6880	4010	3050	3070	3280	4110	6520	5330	10560	6610	7890	3360
CAL YR 1976	TOTAL	74475.0	MEAN	203	MAX	880	MIN	25	AC-FT	147700		
WTR YR 1977	TOTAL	32597.4	MEAN	89.3	MAX	1140	MIN	9.4	AC-FT	64660		

DOLORES RIVER BASIN

09177000 SAN MIGUEL RIVER AT UKAVAN, CU--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPECIFIC CON- JUNCT- ANCE (MICRO- MOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL./ 100 ML)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BOVATE HARD- NESS (MG/L)
NOV 18...	1030	108	1000	8.0	4.5	4	10.6	18	23	81	540	380
DEC 27...	1030	72	1050	8.3	.5	9	11.8	15	--	--	--	--
JAN 19...	1030	97	780	7.9	1.0	9	11.3	0	1800	200	390	260
FEB 03...	1015	62	890	8.1	1.5	9	11.2	8	--	--	--	--
MAR 03...	1020	64	800	7.9	2.0	10	12.2	1	--	--	--	--
APR 07...	1015	82	750	8.1	11.0	5	10.0	10	--	810	380	240
MAY 04...	1100	120	960	8.1	11.0	4	9.8	11	--	--	--	--
JUN 06...	1015	241	620	7.8	18.0	30	9.4	9	--	--	--	--
JUL 20...	1045	104	980	7.4	20.0	490	6.8	1400	--	--	510	400
AUG 18...	1045	470	1520	7.5	25.5	8800	7.0	2700	--	--	--	--
SEP 08...	1000	14	1250	7.7	19.5	25	7.8	19	--	--	--	--

DATE	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUES AT 180 C) (MG/L)
NOV 18...	130	52	39	.7	2.4	189	0	155	420	9.5	8.3	800
DEC 27...	--	--	--	--	--	--	--	--	--	--	--	715
JAN 19...	100	34	27	.6	1.8	154	0	126	300	7.4	8.3	594
FEB 03...	--	--	--	--	--	--	--	--	--	--	--	685
MAR 03...	--	--	--	--	--	--	--	--	--	--	--	645
APR 07...	97	34	29	.6	1.8	170	0	140	280	8.3	6.5	565
MAY 04...	--	--	--	--	--	--	--	--	--	--	--	748
JUN 06...	--	--	--	--	--	--	--	--	--	--	--	468
JUL 20...	140	40	43	.8	6.2	140	0	110	470	9.7	10	825
AUG 18...	--	--	--	--	--	--	--	--	--	--	--	1270
SEP 08...	--	--	--	--	--	--	--	--	--	--	--	1150

B BASED ON NON-IDEAL COLONY COUNT.

09177000 SAN MIGUEL RIVER AT URAVAN, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	SUS- PENDED SOLIDS (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 18...	754	1.09	233	0	.09	.01	.12	.13	.22	.02	1.8
DEC 27...	--	.97	140	12	.26	.01	--	--	--	--	1.7
JAN 19...	554	.81	156	15	.28	.08	.29	.37	.65	.03	1.5
FEB 03...	--	.93	116	4	.28	.14	.13	.27	.55	.02	2.3
MAR 03...	--	.88	112	2	.11	.04	.07	.11	.22	.01	2.5
APR 07...	540	.77	125	2	.01	.01	.17	.18	.19	.01	2.6
MAY 04...	--	1.02	242	7	.02	.01	.04	.05	.07	.02	4.0
JUN 06...	--	.54	305	53	.05	--	--	--	--	.06	6.2
JUL 20...	788	1.12	232	1200	.74	.26	3.6	3.9	4.6	1.4	634
AUG 18...	--	1.73	1610	63400	.73	.05	52	52	53	11	431
SEP 08...	--	1.56	43.5	41	.03	.01	.03	.04	.07	.06	3.9

DOLOROS RIVER BASIN

09177100 SAN MIGUEL RIVER BELOW URAVAN, CO

LOCATION.--Lat 38°23'08", long 108°45'28", in SW¼NW¼ sec.28, T.48 N., R.17 W., Montrose County, Hydrologic Unit 14030003, at county bridge 75 ft (23 m) downstream from Atkinson Creek and 2.0 mi (3.2 km) northwest of Uravan.

DRAINAGE AREA.--1,549 mi² (4,012 km²).

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

REMARKS.--Field data collected prior to 1974 water year are available in district office.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	IMMEDIATE COLIFORM (COL./100 ML)	FECAL COLIFORM (COL./100 ML)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)
NOV 18...	1200	56	1400	8.4	6.5	6	12.0	15	80	84	560	450
DEC 27...	1145	--	1900	7.8	.5	10	12.3	18	--	--	--	--
JAN 19...	1230	99	1230	7.7	2.0	10	11.5	0	800	36	460	330
FEB 03...	1100	82	1890	7.5	.5	15	11.4	10	--	--	--	--
MAR 03...	1100	64	1620	7.9	5.5	6	11.4	7	--	--	--	--
APR 07...	1145	82	1320	8.0	14.5	5	9.9	10	--	810	480	350
MAY 04...	1200	116	1300	8.2	14.5	4	10.1	28	--	--	--	--
JUN 06...	1115	155	950	8.0	20.0	40	9.2	16	--	--	--	--
JUL 20...	1230	75	1230	7.5	24.0	320	6.2	1900	--	--	510	410
AUG 18...	1200	412	1550	7.6	21.5	14000	7.1	830	--	--	--	--
SEP 08...	1130	55	2350	7.8	23.0	20	8.1	20	--	--	--	--

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUAL AT 180 C) (MG/L)
NOV 18...	130	57	86	1.6	5.6	132	0	108	500	79	7.9	983
DEC 27...	--	--	--	--	--	--	--	--	--	--	--	1290
JAN 19...	100	51	74	1.5	5.6	153	0	126	410	75	8.2	860
FEB 03...	--	--	--	--	--	--	--	--	--	--	--	1270
MAR 03...	--	--	--	--	--	--	--	--	--	--	--	1070
APR 07...	100	56	79	1.6	6.9	160	0	130	470	71	6.3	893
MAY 04...	--	--	--	--	--	--	--	--	--	--	--	952
JUN 06...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 20...	130	46	84	1.6	9.1	130	0	110	510	64	9.7	977
AUG 18...	--	--	--	--	--	--	--	--	--	--	--	1370
SEP 08...	--	--	--	--	--	--	--	--	--	--	--	1740

B BASED ON NON-IDEAL COLONY COUNT.

09177100 SAN MIGUEL RIVER BELOW URAVAN, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	SUS- PENDED SOLIDS (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 18...	930	1.34	149	0	1.3	5.5	.00	5.4	6.7	.02	3.4
DEC 27...	--	1.75	--	25	1.2	35	.00	34	35	.05	2.1
JAN 19...	799	1.17	230	36	.96	14	4.0	18	19	.02	1.7
FEB 03...	--	1.73	281	29	1.5	41	5.0	46	48	.05	4.3
MAR 03...	--	1.46	185	1	.93	32	.00	28	29	.02	2.1
APR 07...	868	1.21	198	5	.63	27	.00	25	26	.01	2.3
MAY 04...	--	1.29	298	10	.59	--	--	8.6	9.2	.03	3.9
JUN 06...	--	--	--	137	.26	1.7	.20	1.9	2.2	.07	7.0
JUL 20...	917	1.33	199	596	1.1	2.8	6.8	9.6	11	.34	345
AUG 18...	--	1.86	1520	582	1.2	1.2	35	36	37	11	352
SEP 08...	--	2.37	259	40	1.7	8.3	.20	8.5	10	.06	4.5

GREEN RIVER BASIN

09235300 VERMILLION CREEK NEAR HIAWATHA, CO

LOCATION.--Lat 41°00'54", long 108°38'39", in NE¼SE¼NE¼ sec.15, T.12 N., R.100 W., Sweetwater County, WY, Hydrologic Unit 14040109, on right bank 0.7 mi (1.1 km) upstream from county road, 0.9 mi (1.4 km) downstream from Alkali Creek, 1.8 mi (2.9 km) upstream from Horseshoe Wash, 1.9 mi (3.1 km) upstream from Colorado-Wyoming State line, 2.3 mi (3.7 km) northwest of Hiawatha, and 49 mi (79 km) southwest of Rock Springs, WY.

DRAINAGE AREA.--196 mi² (508 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--water-stage recorder. Altitude of gage is 6,610 ft (2,015 m), from topographic map.

REMARKS.--Records poor. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 692 ft³/s (19.6 m³/s) Aug. 1, 1976, gage height, 6.52 ft (1.987 m), from rating curve extended above 10 ft³/s (0.28 m³/s), on basis of slope-area measurements at gage heights 3.03 and 6.52 ft (0.924 and 1.987 m); no flow many days during 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 552 ft³/s (15.6 m³/s) Aug. 27, gage height, 5.76 ft (1.756 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.9	.35	.01	.00	.94	1.4	1.2	.34	.00	.08	.23
2	1.2	1.7	.40	.01	.00	.86	1.3	1.1	.30	.00	.01	.14
3	1.3	1.7	.50	.00	.00	.78	1.4	.85	.26	6.3	.00	.10
4	1.5	1.5	.70	.00	.00	.73	1.6	.85	.23	.98	.01	.10
5	1.1	1.6	.60	.00	.00	.72	1.7	.69	.26	.56	39	.04
6	1.1	1.6	.70	.00	.00	.74	2.0	.90	.26	.00	13	.01
7	1.3	1.5	.80	.00	.00	.83	4.0	.74	.38	.00	.90	.05
8	1.1	1.6	.70	.00	.00	.90	5.5	.69	36	.00	.59	.00
9	1.0	1.4	.60	.00	.00	1.0	5.3	.74	.20	.00	.42	.00
10	.90	1.3	.54	.00	.00	.95	5.0	.69	.10	.00	.14	.00
11	.90	1.1	.50	.00	.00	.90	4.5	.85	.05	.00	.10	.05
12	.90	.90	.48	.00	.00	1.0	3.7	.81	.01	.00	.10	.34
13	1.1	.70	.50	.00	.00	1.2	2.6	.85	.00	.00	.02	.23
14	1.2	.80	.53	.00	.01	1.4	1.6	1.0	.00	.00	.00	.07
15	1.2	1.0	.55	.00	.02	1.3	1.2	.96	.00	.00	.21	.01
16	1.2	1.5	.60	.00	.05	1.5	1.3	.90	.00	.00	.23	.01
17	1.0	2.0	.54	.00	.10	2.0	1.4	1.0	.00	.00	.06	.01
18	1.0	2.5	.46	.00	.20	1.9	1.4	.90	.00	.00	11	.00
19	.95	2.4	.38	.00	.36	1.8	1.3	.79	.00	13	22	.09
20	.88	2.2	.32	.00	.60	1.7	1.3	.74	.00	7.4	.89	.03
21	1.3	1.7	.28	.00	1.1	2.0	1.2	.63	.01	.39	.64	.01
22	1.5	1.5	.24	.00	1.3	2.3	1.1	.64	.04	.14	.96	.02
23	1.6	1.6	.22	.00	1.2	2.6	1.1	.50	.01	3.9	.79	.26
24	1.7	1.6	.19	.00	1.1	2.5	1.0	.50	.00	106	.85	.26
25	1.5	1.3	.17	.00	1.1	2.3	1.0	.50	.00	11	57	.14
26	1.3	.86	.15	.00	1.0	2.5	1.1	.50	.01	1.5	62	.14
27	1.2	.58	.13	.00	.94	2.2	1.1	.50	.06	.64	192	.14
28	1.1	.40	.05	.00	.88	1.9	1.1	.50	.00	1.7	3.3	.07
29	1.4	.29	.04	.00	---	1.8	1.1	.54	.00	1.0	.85	.10
30	1.7	.29	.03	.00	---	2.2	1.1	.50	.00	.51	.54	.17
31	1.9	---	.02	.00	---	1.8	---	.46	---	.26	.30	---
TOTAL	38.13	41.02	12.27	.02	9.96	47.25	60.4	23.02	38.52	155.28	407.99	2.82
MEAN	1.23	1.37	.40	.001	.36	1.52	2.01	.74	1.28	5.01	13.2	.094
MAX	1.9	2.5	.80	.01	1.3	2.6	5.5	1.2	36	106	192	.34
MIN	.88	.29	.02	.00	.00	.72	1.0	.46	.00	.00	.00	.00
AC-FT	76	81	24	.04	20	94	120	46	76	308	809	5.6

CAL YR 1976 TOTAL 1003.63 MEAN 2.79 MAX 30 MIN .02 AC-FT 1990
WTR YR 1977 TOTAL 836.68 MEAN 2.29 MAX 192 MIN .00 AC-FT 1660

09235300 VERMILLION CREEK NEAR HIAWATHA, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to current year.

REMARKS.--No flow was observed Jan. 20, 1977.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TJR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)
OCT 08...	1630	1.3	1400	8.3	13.0	30	8.4	1.4	400	140	71
NOV 03...	1430	1.6	1360	8.6	8.5	--	11.0	--	450	100	74
18...	1730	E 2.5	1400	8.1	2.0	180	10.4	2.4	460	82	74
DEC 18...	1000	E .46	1900	8.0	.0	25	10.3	1.5	610	84	110
FEB 17...	1130	E .10	2200	7.9	.0	35	9.3	1.9	670	190	120
MAR 17...	1140	E 2.0	1850	8.0	.0	60	10.5	2.0	600	180	110
APR 14...	1310	E 1.6	1700	8.3	12.0	650	7.8	2.6	520	170	99
MAY 15...	1000	.96	2100	8.4	8.0	380	11.2	2.8	610	250	110
JUN 08...	1200	.46	2000	8.3	22.0	75	7.6	4.3	590	180	98
JUL 19...	1630	17	2500	7.6	17.5	23000	7.0	6.6	1500	1300	520
AUG 13...	1100	.07	2800	8.1	23.0	5	7.8	--	1100	630	310
16...	1215	.30	3200	8.2	25.0	150	6.9	6.8	1300	1000	360
SEP 17...	1215	.01	2500	8.2	12.0	2	9.3	4.1	990	740	230

DATE	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUC- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)
OCT 08...	54	160	3.5	3.6	314	0	258	350	22	.5	11
NOV 03...	65	170	3.5	3.2	428	0	351	410	23	.3	11
18...	67	160	3.2	3.4	462	0	379	390	20	.3	13
DEC 18...	81	230	4.1	4.0	639	0	524	570	29	.4	15
FEB 17...	90	280	4.7	4.6	591	0	485	690	39	.4	12
MAR 17...	78	210	3.7	3.6	505	0	414	570	30	.3	12
APR 14...	66	190	3.6	3.8	420	0	340	510	26	.3	11
MAY 15...	82	270	4.7	3.8	440	0	360	710	31	.4	10
JUN 08...	83	280	5.0	5.4	490	0	400	730	35	.4	11
JUL 19...	43	110	1.2	16	270	0	220	1500	16	.3	4.7
AUG 13...	88	310	4.0	8.3	370	0	300	1500	32	.4	11
16...	92	300	3.7	8.5	310	0	250	1600	30	.4	11
SEP 17...	100	280	3.9	6.3	300	0	250	1300	11	.4	10

E ESTIMATED.

09235300 VERMILLION CREEK NEAR HIAWATHA, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)
OCT 08...	827	1.12	2.90	.08	.00	.25	.25	.33	.06	130	20
NOV 03...	968	1.32	4.18	.01	.02	.41	.43	.44	.11	140	110
18...	956	1.30	6.45	.17	.01	.97	.98	1.2	.31	130	10
DEC 18...	1350	1.84	1.68	.15	.03	.31	.34	.49	.04	160	50
FEB 17...	1530	2.08	.41	.16	.06	.62	.68	.84	.09	160	60
MAR 17...	1260	1.71	6.80	.21	.02	.30	.32	.53	.11	160	50
APR 14...	1110	1.51	4.80	.23	.16	2.1	2.3	2.5	1.0	140	80
MAY 15...	1430	1.94	3.71	.03	.00	1.5	1.5	1.5	.47	190	90
JUN 08...	1480	2.01	1.84	.02	.08	1.0	1.1	1.1	.10	250	160
JUL 19...	2340	3.18	107	5.8	1.1	110	110	120	12	130	110
AUG 13...	2440	3.32	.46	.02	.15	1.7	1.8	1.8	.05	260	70
16...	2560	3.48	2.07	.23	.10	1.4	1.5	1.7	.23	280	70
SEP 17...	2090	2.84	.06	.14	.08	.46	.54	.68	.03	220	110

DATE	TIME	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHU- PHOS- PHORUS (P) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)
NOV 03...	1430	.01	.00	.09	.09	.00	.01	--
03...	1450	--	--	--	--	--	--	--
AUG 13...	1100	.04	.08	1.7	1.8	.02	.01	1600

DATE	BENTHIC INVER- TEBRA- TES WET WEIGHT (G/SQ METER)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (JG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (PLAN- CHET COUNT) (PC/L)
NOV 03...	4.3	--	--	--	--	--	--	--
03...	--	18	9.2	4.8	6.8	3.9	5.3	<.1
AUG 13...	.1	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

[illegible]

GREEN RIVER BASIN

09235450 VERMILLION CREEK AT INK SPRINGS RANCH, CO

LOCATION.--Lat 40°45'43", long 108°43'33", in SE¼SE¼ sec.3, T.9 N., R.101 W., Moffat County, Hydrologic Unit 14040109, on right bank 0.3 mi (0.5 km) downstream from unnamed tributary, 0.5 mi (0.8 km) upstream from inflow of Ink Springs, 800 ft (244 m) southwest of Ink Springs Ranch headquarters, and about 37 mi (60 km) northwest of Maybell.

DRAINAGE AREA.--968 mi² (2,507 km²).

PERIOD OF RECORD.--June to September 1977.

GAGE.--water-stage recorder. Altitude of gage is 5,725 ft (1,745 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Diversions above station for irrigation of hay meadows below station.

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

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge during period June to September, 40 ft³/s (1.13 m³/s) July 24; minimum daily, 1.8 ft³/s (0.051 m³/s) June 13, 18-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	2.0	2.0	2.2
2									---	2.0	2.0	2.2
3									---	2.0	2.0	2.2
4									---	2.2	2.0	2.2
5									---	2.3	2.0	2.2
6									---	2.0	2.0	2.2
7									---	2.0	2.0	2.2
8									---	2.0	2.0	2.2
9									---	2.0	2.0	2.2
10									---	2.0	2.0	2.2
11									---	2.0	2.0	10
12									---	2.3	2.0	4.0
13									1.8	2.3	2.0	2.0
14									2.0	2.3	2.0	2.0
15									2.0	2.3	2.0	2.0
16									2.0	2.3	2.0	2.0
17									2.0	2.0	2.0	2.0
18									1.8	2.0	2.0	2.0
19									1.8	2.2	10	2.0
20									1.8	20	4.0	2.0
21									1.8	5.0	2.0	2.0
22									1.8	4.0	2.0	2.0
23									1.8	3.0	2.0	2.0
24									2.2	40	2.0	2.0
25									2.0	5.0	2.0	2.0
26									2.2	3.0	2.0	2.0
27									2.2	2.0	30	2.0
28									2.0	2.0	6.0	2.0
29									2.2	2.0	3.0	2.0
30									2.3	2.0	2.2	2.0
31									---	2.0	2.2	---
TOTAL									---	130.2	105.4	72.0
MEAN									---	4.20	3.40	2.40
MAX									---	40	30	10
MIN									---	2.0	2.0	2.0
AC-FT									---	258	209	143

NOTE.--NO GAGE-HEIGHT RECORD JULY 20 TO SEPT. 30.

09235800 POT CREEK NEAR VERNAL, UT

LOCATION.--Lat 40°40'25", long 109°03'03", in SW¼NE¼SE¼ sec.1, T.2 S., R.25 E., Daggett County, UT, Hydrologic Unit 14040106, on left bank 0.2 mi (0.3 km) upstream from Colorado-Utah State line, 7 mi (11 km) upstream from mouth, and 29 mi (47 km) northeast of Vernal.

DRAINAGE AREA.--107 mi² (277 km²).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,900 ft (2,103 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow regulated by Matt Warner and Crouse Reservoirs, 14 mi (23 km) and 7 mi (11 km) upstream, respectively, combined capacity, about 4,000 acre-ft (4.93 hm³). Several diversions for irrigation above station, including one to Crouse Creek basin for irrigation of about 100 acres (405,000 m²) in Browns Park.

AVERAGE DISCHARGE.--20 years, 1.93 ft³/s (0.0547 m³/s), 1,400 acre-ft/yr (1.73 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 286 ft³/s (8.10 m³/s) Apr. 7, 1962, gage height, 3.85 ft (1.173 m), from rating curve extended above 170 ft³/s (4.81 m³/s); maximum gage height, 3.99 ft (1.216 m) Mar. 15, 1966 (backwater from ice); no flow for part of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7.0 ft³/s (0.20 m³/s) May 8, gage height, 1.20 ft (0.366 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.04	.00	.00	.00	.06	.08	.00	.00	.00	.00	.00
2	.00	.04	.00	.00	.00	.06	.08	.00	.00	.00	.00	.00
3	.00	.04	.00	.00	.00	.06	.08	.00	.00	.00	.00	.00
4	.00	.04	.00	.00	.00	.05	.10	.24	.00	.00	.00	.00
5	.00	.04	.00	.00	.00	.05	.14	5.4	.00	.00	.00	.00
6	.00	.04	.00	.00	.00	.05	.16	6.2	.00	.00	.00	.00
7	.00	.03	.00	.00	.00	.05	.16	6.4	.00	.00	.00	.00
8	.00	.03	.00	.00	.00	.05	.16	6.6	.00	.00	.00	.00
9	.00	.03	.00	.00	.00	.05	.14	2.8	.03	.00	.00	.00
10	.00	.03	.00	.00	.00	.04	.12	.30	.00	.00	.00	.00
11	.00	.03	.00	.00	.00	.04	.16	.12	.00	.00	.00	.00
12	.00	.03	.00	.00	.00	.04	.28	.05	.00	.00	.00	.00
13	.00	.03	.00	.00	.00	.04	.16	.04	.00	.00	.00	.00
14	.00	.03	.00	.00	.00	.04	.10	.14	.00	.00	.00	.00
15	.00	.03	.00	.00	.00	.04	.10	.10	.00	.00	.00	.00
16	.00	.03	.00	.00	.00	.04	.14	.10	.00	.00	.00	.00
17	.00	.03	.00	.00	.00	.05	.09	.10	.00	.00	.00	.00
18	.00	.05	.00	.00	.00	.04	.09	.06	.00	.00	.00	.00
19	.00	.05	.00	.00	.00	.04	.22	.04	.00	.00	.00	.00
20	.00	.04	.00	.00	.00	.04	.12	.02	.00	.00	.00	.00
21	.00	.04	.00	.00	.03	.04	.07	.02	.00	.00	.00	.00
22	.00	.04	.00	.00	.06	.08	.06	.01	.00	.00	.00	.00
23	.00	.04	.00	.00	.07	.10	.05	.00	.00	.00	.00	.00
24	.00	.04	.00	.00	.07	.12	.04	.00	.00	.00	.00	.00
25	.00	.05	.00	.00	.08	.10	.04	.18	.00	.00	.00	.00
26	.03	.04	.00	.00	.07	.12	.03	.07	.00	.00	.00	.00
27	.05	.04	.00	.00	.07	.14	.03	.04	.00	.00	.00	.00
28	.06	.02	.00	.00	.06	.10	.03	.05	.00	.00	.00	.00
29	.05	.01	.00	.00	---	.09	.03	.05	.00	.00	.00	.00
30	.05	---	.00	.00	---	.08	.02	.03	.00	.00	.00	.00
31	.05	---	.00	.00	---	.08	---	.01	---	.00	.00	---
TOTAL	.29	1.03	.00	.00	.51	1.98	3.08	29.17	.03	.00	.00	.00
MEAN	.009	.034	.000	.000	.018	.064	.10	.94	.001	.000	.000	.000
MAX	.06	.05	.00	.00	.08	.14	.28	6.6	.03	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.04	.02	.00	.00	.00	.00	.00
AC-FT	.6	2.0	.00	.00	1.0	3.9	6.1	58	.06	.00	.00	.00

CAL YR 1976 TOTAL 234.70 MEAN .64 MAX 7.0 MIN .00 AC-FT 466
WTR YR 1977 TOTAL 36.09 MEAN .099 MAX 6.6 MIN .00 AC-FT 72

GREEN RIVER BASIN

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 (1.3 km) downstream from Mandall Creek, 0.8 mi (1.3 km) upstream from Dome Creek, and 14 mi (23 km) west of Toponas.

DRAINAGE AREA.--23 mi² (60 km²), 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. Altitude of gage is 9,700 ft (2,957 m), from river-profile map. Oct. 28, 1952, to Sept. 30, 1965, water-stage recorder at site 50 ft (15 m) upstream at different datum.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Flow regulated by Stillwater Reservoir, capacity, 6,200 acre-ft (7.64 hm³) 3.5 mi (5.6 km) upstream and Yampa Reservoir, capacity, 620 acre-ft (764,000 m³).

AVERAGE DISCHARGE.--24 years, 39.6 ft³/s (1.121 m³/s), 28,690 acre-ft/yr (35.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 436 ft³/s (12.3 m³/s) July 2, 1957, gage height, 6.39 ft (1.948 m), site and datum then in use; minimum daily, 1.6 ft³/s (0.045 m³/s) Oct. 6-24, Nov. 18 to Dec. 8, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 106 ft³/s (3.00 m³/s) June 7, gage height, 1.79 ft (0.546 m); minimum daily, 9.0 ft³/s (0.25 m³/s) Mar. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	12	12	10	11	9.5	9.6	39	50	31	15	17
2	13	12	12	10	11	9.5	9.6	38	64	25	15	15
3	14	12	12	11	11	9.6	9.3	42	87	23	16	13
4	14	12	12	11	11	9.6	9.8	41	93	23	17	13
5	13	12	12	11	11	9.7	10	38	89	21	19	14
6	13	12	12	11	10	9.7	10	41	92	16	19	14
7	13	12	12	11	10	9.6	10	48	97	16	18	14
8	13	12	12	11	10	9.4	11	53	94	16	19	14
9	13	12	11	11	11	9.2	12	56	92	21	20	14
10	12	12	11	10	10	9.6	13	54	87	21	20	15
11	12	11	11	10	10	10	13	45	76	22	17	15
12	12	11	11	10	11	9.6	12	48	74	22	16	15
13	12	11	11	10	10	9.2	11	55	65	23	16	15
14	12	12	11	10	11	9.2	11	58	52	18	15	15
15	12	12	11	11	11	9.1	12	57	39	18	15	15
16	11	12	10	11	10	9.0	12	58	43	16	15	15
17	11	12	10	11	10	9.5	14	54	35	16	14	15
18	11	12	10	11	10	10	17	46	34	16	14	15
19	11	12	11	11	10	10	17	43	34	16	14	15
20	11	12	10	11	10	10	14	46	47	18	14	15
21	12	11	10	11	10	10	13	44	55	19	16	15
22	13	11	10	11	10	9.7	16	40	52	19	18	16
23	13	12	10	11	11	9.4	18	41	52	22	17	16
24	12	11	10	11	11	9.2	19	42	50	26	17	16
25	12	12	9.8	11	11	9.3	21	43	44	33	16	16
26	14	12	9.7	11	10	9.2	21	42	48	35	17	16
27	13	12	10	11	9.9	9.6	22	41	45	28	17	16
28	12	12	10	11	9.6	9.7	24	41	38	22	17	14
29	12	11	10	11	---	10	29	41	37	22	17	13
30	12	11	10	11	---	10	38	39	33	22	17	13
31	12	---	10	11	---	9.6	---	42	---	20	17	---
TOTAL	384	352	333.5	334	291.5	296.7	458.3	1416	1798	666	514	444
MEAN	12.4	11.7	10.8	10.8	10.4	9.57	15.3	45.7	59.9	21.5	16.6	14.8
MAX	14	12	12	11	11	10	38	58	97	35	20	17
MIN	11	11	9.7	10	9.6	9.0	9.3	38	33	16	14	13
AC-FT	762	698	661	662	578	589	909	2810	3570	1320	1020	881
CAL YR 1976	TOTAL	12758.5	MEAN	34.9	MAX	129	MIN	9.7	AC-FT	25310		
WTR YR 1977	TOTAL	7288.0	MEAN	20.0	MAX	97	MIN	9.0	AC-FT	14460		

09239500 YAMPA RIVER AT STEAMBOAT SPRINGS, CO

LOCATION.--Lat 40°29'01"N, long 106°49'54"W, in NW¼NE¼ sec.17, T.6 N., R.84 W., Routt County, Hydrologic Unit 14050001, on right bank 30 ft (9 m) downstream from Fifth Street Bridge in Steamboat Springs and 0.6 mi (1.0 km) upstream from Soda Creek.

DRAINAGE AREA.--604 mi² (1,564 km²).

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 (2,040.779 m) above mean sea level. Prior to May 8, 1905, nonrecording gage at bridge 0.2 mi (0.3 km) upstream at datum 4.16 ft (1.268 m) higher. May 8, 1905, to Oct. 31, 1906, nonrecording gage on bridge 30 ft (9 m) upstream at datum 0.44 ft (0.134 m) higher. Mar. 8, 1910, to Sept. 11, 1934, water-stage recorder at present site at datum 0.44 ft (0.134 m) higher.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by two diversions for irrigation to Egeria Creek in Colorado River basin, one diversion for irrigation from Trout Creek drainage to Oak Creek drainage, irrigation of about 19,700 acres (79.7 km²) above station, and storage reservoirs.

AVERAGE DISCHARGE.-- 70 years, 464 ft³/s (13.14 m³/s), 336,200 acre-ft/yr (415 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,820 ft³/s (193 m³/s) June 14, 1921, gage height, 7.08 ft (2.158 m), present datum, from rating curve extended above 4,800 ft³/s (140 m³/s); minimum daily, 4.0 ft³/s (0.11 m³/s) Sept. 8, 1934, Sept. 10-13, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,080 ft³/s (30.6 m³/s) May 15, gage height, 3.00 ft (0.914 m), no peak above base of 3,000 ft³/s (85 m³/s); minimum daily, 28 ft³/s (0.79 m³/s) July 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	88	54	62	63	64	107	824	929	42	56	60
2	77	90	62	62	63	66	98	734	915	39	53	52
3	95	95	62	62	63	72	91	754	887	42	51	47
4	103	91	63	57	63	71	87	608	901	39	50	49
5	102	90	64	50	63	69	91	490	831	44	59	51
6	93	88	66	50	63	68	118	578	796	48	98	52
7	91	85	68	50	63	67	190	782	704	50	85	54
8	90	85	68	48	63	70	265	901	686	46	65	55
9	88	82	68	46	63	76	375	974	796	44	60	52
10	90	82	70	48	63	79	495	901	632	40	58	50
11	87	79	69	51	63	79	475	704	485	34	53	50
12	82	73	68	52	63	77	370	680	395	32	44	61
13	87	65	67	54	63	72	269	686	318	30	44	72
14	87	72	66	56	64	73	223	901	277	28	47	72
15	83	80	63	58	64	76	234	782	240	30	48	69
16	82	84	63	60	64	74	179	644	193	32	48	69
17	79	78	62	60	65	74	206	734	174	35	50	67
18	79	82	60	61	66	79	318	761	148	32	53	63
19	69	84	58	61	68	79	370	680	123	34	62	59
20	69	80	57	62	70	73	281	614	116	46	68	56
21	76	70	56	62	71	73	251	548	100	50	65	55
22	82	68	56	62	72	76	281	530	88	56	64	55
23	85	66	56	63	74	77	355	608	72	82	62	57
24	83	65	57	63	73	77	440	704	73	146	59	60
25	79	66	58	63	74	102	506	680	69	184	62	65
26	88	68	60	63	72	181	530	656	64	140	72	69
27	87	70	62	63	67	161	566	614	59	95	79	63
28	83	64	62	63	64	159	632	584	53	79	93	59
29	87	52	62	63	---	133	704	602	52	70	95	57
30	95	48	62	63	---	95	796	698	48	67	79	56
31	91	---	62	63	---	103	---	817	---	61	72	---
TOTAL	2646	2290	1931	1801	1847	2695	9903	21773	11224	1797	1954	1756
MEAN	85.4	76.3	62.3	58.1	60.0	86.9	330	702	374	56.0	63.0	58.5
MAX	103	95	70	63	74	181	796	974	929	184	98	72
MIN	69	48	54	46	63	64	87	490	48	28	44	47
AC-FT	5250	4540	3830	3570	3660	5350	19640	43190	22260	3560	3680	3480
CAL YR 1976	TOTAL	133801	MEAN 366	MAX 2580	MIN 48	AC-FT 265400						
WTR YR 1977	TOTAL	61617	MEAN 169	MAX 974	MIN 28	AC-FT 122200						

GREEN RIVER BASIN

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 (9 m) downstream from bridge on State Highway 129, 0.8 mi (1.3 km) north of Clark, and 2.0 mi (3.2 km) upstream from Cottonwood Gulch.

DRAINAGE AREA.--206 mi² (534 km²).

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 (2,215.210 m) above mean sea level (State Highway Department bench mark). May 1910 to September 1922, nonrecording gage at site 30 ft (9 m) upstream at datum 0.15 ft (0.046 m) lower. Apr. 23, 1930, to Sept. 27, 1934, water-stage recorder at present site at datum 0.15 ft (0.046 m) lower.

REMARKS.--Records good except those for winter period, which are fair. Diversions above station for irrigation of about 230 acres (931,000 m²) above and about 460 acres (1.86 km²) below station. Natural flow of stream affected by storage in Lester Creek Reservoir (known also as Pearl Lake), capacity, 5,660 acre-ft (6.98 hm³) since 1963 and Steamboat Lake, capacity, 23,060 acre-ft (28.4 hm³) since 1968.

AVERAGE DISCHARGE.--59 years, 333 ft³/s (9.431 m³/s), 241,300 acre-ft/yr (298 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,470 ft³/s (127 m³/s) June 6, 9, 1912; minimum daily determined, 22 ft³/s (0.62 m³/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.--Maximum discharge, 1,110 ft³/s (31.4 m³/s) June 9, gage height, 3.58 ft (1.091 m), no peak above base of 1,900 ft³/s (54 m³/s); minimum daily, 30 ft³/s (0.85 m³/s) Jan. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	44	40	40	48	43	46	434	500	113	51	63
2	55	46	40	40	47	42	44	372	627	107	57	56
3	78	45	40	38	46	42	43	406	777	107	55	52
4	94	41	40	37	45	42	43	341	883	101	54	57
5	71	41	40	35	44	42	44	276	879	103	60	57
6	67	41	40	34	44	43	46	302	933	108	74	54
7	68	40	40	40	44	43	55	396	796	94	77	50
8	63	42	40	35	43	43	61	492	824	84	86	48
9	64	41	40	30	43	44	69	552	893	78	56	46
10	63	39	40	38	43	44	82	550	752	77	51	44
11	62	45	40	44	42	44	101	387	622	72	49	44
12	58	33	40	48	42	44	110	339	532	69	47	48
13	56	35	40	52	41	45	108	359	487	67	45	51
14	53	36	40	52	40	45	98	408	450	68	45	49
15	52	39	40	52	40	45	101	353	401	67	43	46
16	49	39	40	52	40	45	97	410	347	63	44	48
17	49	39	40	52	40	46	106	411	301	59	44	47
18	44	39	40	52	40	46	146	422	271	57	47	44
19	39	39	40	52	40	46	185	429	251	58	59	42
20	34	39	40	52	40	46	170	378	229	60	69	41
21	47	39	40	50	40	44	158	327	205	61	65	41
22	45	39	40	50	40	46	175	310	184	81	59	44
23	46	39	40	50	40	65	216	334	170	78	53	46
24	47	39	40	50	40	49	270	379	165	91	49	49
25	42	39	40	50	40	46	333	362	165	122	55	51
26	47	36	40	50	38	45	441	331	167	126	70	52
27	42	33	40	50	39	45	424	303	155	98	77	50
28	38	32	40	50	44	46	422	301	144	83	94	48
29	45	34	40	50	---	51	450	303	134	76	103	46
30	49	38	40	50	---	51	444	337	123	72	91	45
31	46	---	40	50	---	49	---	378	---	68	74	---
TOTAL	1669	1171	1240	1425	1173	1417	5088	11682	13367	2568	1893	1459
MEAN	53.8	39.0	40.0	46.0	41.9	45.7	170	377	446	82.8	61.1	48.6
MAX	94	46	40	52	48	65	450	552	933	126	103	63
MIN	34	32	40	30	38	42	43	276	123	57	43	41
AC-FT	3310	2320	2460	2830	2330	2810	10090	23170	26510	5090	3750	2890

CAL YR 1976 TOTAL 86414 MEAN 236 MAX 1280 MIN 32 AC-FT 171400
WTR YR 1977 TOTAL 44152 MEAN 121 MAX 933 MIN 30 AC-FT 87580

NOTE.--NO GAGE-HEIGHT RECORD JAN. 7 TO FEB. 22.

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 14050001, on left bank 1.1 mi (1.77 km) above mouth of Foidel Creek and 13.5 mi (21.7 km) northwest of Oak Creek.

DRAINAGE AREA.--23.5 mi² (60.9 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 6,720 ft (2,050 m) above mean sea level.

REMARKS.--Records good except those for winter period, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20 ft³/s (0.57 m³/s) May 9, 1976, gage height, 2.01 ft (0.613 m); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.8 ft³/s (0.14 m³/s) May 26, gage height, 1.50 ft (0.457 m), no peak above base of 15 ft³/s (0.42 m³/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.15	.05	.00	.05	.90	1.1	1.1	1.6	2.9	.00	.00
2	.00	.15	.10	.00	.10	.80	.88	1.1	2.4	1.6	.00	.00
3	.00	.15	.15	.00	.15	.70	.97	.97	2.6	1.5	.00	.00
4	.00	.10	.20	.00	.15	.65	.88	.88	2.3	1.1	.00	.00
5	.00	.10	.22	.00	.20	.60	.88	.97	2.6	1.1	.00	.00
6	.00	.10	.25	.00	.20	.80	1.1	.88	2.5	1.4	.00	.00
7	.00	.15	.25	.00	.20	1.0	1.1	.80	2.1	3.0	.00	.00
8	.00	.15	.25	.00	.25	1.2	1.2	.71	1.8	2.5	.00	.00
9	.00	.15	.25	.00	.25	1.0	1.1	.64	1.8	2.0	.00	.00
10	.00	.15	.25	.00	.30	.60	1.2	.64	2.0	1.6	.00	.00
11	.00	.20	.20	.00	.30	.40	1.4	.40	1.5	.97	.00	.00
12	.00	.20	.20	.00	.35	.60	1.5	.21	1.1	.27	.00	.00
13	.00	.20	.15	.00	.38	.60	1.5	.08	1.1	.07	.00	.00
14	.00	.20	.10	.00	.38	.60	1.1	.08	.97	.02	.00	.00
15	.00	.20	.05	.00	.40	.60	.97	.40	.71	.00	.00	.00
16	.00	.22	.00	.00	.45	.60	.97	1.6	.27	.00	.00	.00
17	.00	.25	.00	.00	.55	.60	.88	.88	.08	.00	.00	.00
18	.00	.25	.00	.00	.75	.60	1.1	2.0	.02	.34	.00	.00
19	.00	.30	.00	.00	1.0	.60	1.2	1.7	.00	.01	.00	.00
20	.00	.40	.00	.00	1.1	.60	1.2	1.5	.00	.00	.00	.00
21	.00	.40	.00	.00	1.0	.80	1.1	1.4	.15	.00	.00	.00
22	.00	.30	.00	.00	.90	1.0	.97	1.1	.02	.00	.00	.00
23	.00	.30	.00	.00	.75	1.4	.71	.71	.34	.00	.00	.00
24	.00	.25	.00	.00	.60	1.6	.64	.64	.88	.00	.00	.00
25	.00	.20	.00	.00	.60	1.5	.64	3.1	.88	.00	.00	.00
26	.00	.20	.00	.00	.70	1.4	.71	4.1	2.1	.00	.00	.00
27	.00	.18	.00	.00	.80	1.4	.64	3.5	2.2	.00	.00	.00
28	.00	.15	.00	.00	1.0	1.3	.80	2.1	2.1	.00	.00	.00
29	.00	.10	.00	.00	---	1.3	.88	2.0	2.1	.00	.00	.00
30	.00	.05	.00	.00	---	1.2	.97	1.6	3.1	.00	.00	.00
31	.10	---	.00	.00	---	1.1	---	1.3	---	.00	.00	---
TOTAL	.10	5.90	2.67	.00	13.86	28.05	30.29	39.09	41.32	20.38	.00	.00
MEAN	.003	.20	.086	.000	.50	.90	1.01	1.26	1.38	.66	.000	.000
MAX	.10	.40	.25	.00	1.1	1.6	1.5	4.1	3.1	3.0	.00	.00
MIN	.00	.05	.00	.00	.05	.40	.64	.08	.00	.00	.00	.00
AC-FT	.2	12	5.3	.00	27	56	60	78	82	40	.00	.00

CAL YR 1976 TOTAL 751.95 MEAN 2.05 MAX 18 MIN .00 AC-FT 1490
WTR YR 1977 TOTAL 181.66 MEAN .50 MAX 4.1 MIN .00 AC-FT 360

NOTE.--NO GAGE-HEIGHT RECORD DEC. 1 TO MAR. 29.

GREEN RIVER BASIN

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 current year.

WATER TEMPERATURES: April 1976 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1976.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 872 micromhos Nov. 28, 1976; minimum, 289 micromhos May 7, 1976.

WATER TEMPERATURES: Maximum, 31.5°C July 31, 1976; minimum, freezing point on many days during November 1976 to April 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 872 micromhos Nov. 28; minimum, not determined.

WATER TEMPERATURES: Maximum, 25.0°C July 18, 19; minimum, freezing point on many days during November to April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	HARDNESS (CA, MG)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
NOV 22...	1200	.29	800	7.5	.5	13.2	360	60	84	36	38	.9
DEC 07...	1200	.25	750	7.4	.0	12.6	360	53	84	36	37	.9
FEB 28...	1300	.99	730	7.6	.0	11.1	330	67	79	32	36	.9
MAR 29...	1200	1.2	560	7.8	.0	11.2	260	54	62	25	27	.7
APR 20...	1230	1.2	650	8.1	7.0	10.0	300	66	69	30	28	.7
MAY 11...	1300	.33	725	8.0	15.0	9.7	340	69	80	34	33	.8
JUN 27...	1100	2.3	580	7.2	20.0	6.8	270	61	67	26	23	.6
JUL 13...	1130	.16	500	7.7	16.0	6.8	260	54	66	23	17	.5

DATE	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)
NOV 22...	3.5	363	0	298	150	4.6	.2	7.3	503	.41	.03	.01
DEC 07...	3.2	372	0	305	140	4.9	.2	7.7	498	.34	.18	.02
FEB 28...	4.3	320	0	262	140	5.7	.2	8.3	465	1.26	.13	.08
MAR 29...	4.0	248	0	200	110	4.6	.2	7.6	365	1.24	.21	.19
APR 20...	3.4	280	0	230	120	4.6	.2	7.0	401	1.30	.01	.11
MAY 11...	3.6	330	0	270	130	4.9	.2	7.4	456	.41	.06	.02
JUN 27...	4.9	260	0	210	100	3.3	.2	12	366	2.31	.22	.05
JUL 13...	3.4	250	0	210	73	2.7	.2	12	321	.14	--	--

09243700 MIDDLE CREEK NEAR OAK CREEK, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS-SOLVED ANTI-MONY (SB) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
NOV 22...	1200	--	--	60	--	--	10	--
DEC 07...	1200	0	0	50	3	2	20	7
FEB 28...	1300	--	--	120	--	--	170	--
MAR 29...	1200	0	1	80	0	1	190	2
APR 20...	1230	--	--	40	--	--	260	--
MAY 11...	1300	--	--	50	--	--	70	--
JUN 27...	1100	--	2	80	1	13	70	2
JUL 13...	1130	--	--	80	--	--	60	--

DATE	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED VANADIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ORGANIC CARBON (C) (MG/L)
NOV 22...	160	--	--	--	--	--	--
DEC 07...	160	.0	2	1	.4	20	7.9
FEB 28...	130	--	--	--	--	--	--
MAR 29...	100	.0	7	0	.7	0	6.4
APR 20...	120	--	--	--	--	--	--
MAY 11...	200	--	--	--	--	--	--
JUN 27...	330	.5	6	1	.0	110	9.3
JUL 13...	260	--	--	--	--	--	--

09243700 MIDDLE CREEK NEAR OAK CREEK, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	766	794		---	749	603	706	---	---		
2	---	759	795		---	738	617	712	723	---		
3	---	762	793		---	742	629	718	741	---		
4	---	762	765		---	743	620	696	776	---		
5	---	750	787		---	751	624	707	788	---		
6	---	752	787		---	766	614	714	776	---		
7	---	743	794		---	774	582	726	704	---		
8	---	739	---		---	761	571	740	656	---		
9	---	751	---		---	733	573	755	615	---		
10	---	756	---		832	710	579	756	603	---		
11	---	760	---		808	684	580	750	590	---		
12	---	796	---		805	685	562	743	589	---		
13	---	783	---		802	652	577	768	604	---		
14	---	763	---		791	623	595	819	610	497		
15	---	780	---		790	643	610	806	613	---		
16	---	770	---		780	670	626	754	625	---		
17	---	765	---		780	626	657	773	632	---		
18	---	752	---		782	612	663	689	650	---		
19	---	747	---		785	625	650	579	---	---		
20	---	756	---		757	643	655	652	---	---		
21	---	787	---		741	635	643	---	682	---		
22	---	782	---		744	623	642	---	677	---		
23	---	770	---		737	628	657	---	713	---		
24	---	794	---		729	620	673	---	---	---		
25	---	780	---		738	596	681	---	---	---		
26	---	743	---		742	576	675	---	---	---		
27	---	788	---		721	582	678	---	---	---		
28	---	808	---		720	512	686	---	---	---		
29	---	794	---		---	560	725	---	---	---		
30	---	787	---		---	578	751	---	---	---		
31	761	---	---		---	591	---	---	---	---		

09243700 MIDDLE CREEK NEAR OAK CREEK, CO--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1			7.0	1.5	1.0	.5			---	---	1.0	.0
2			6.5	1.0	1.0	.5			---	---	1.0	.0
3			9.0	3.5	1.0	.5			---	---	1.0	.0
4			8.5	2.0	1.0	.0			---	---	.5	.0
5			8.0	1.5	1.0	.0			---	---	1.0	.0
6			6.0	1.5	1.0	.0			---	---	1.0	.0
7			7.0	1.0	1.0	.0			---	---	1.0	.0
8			7.0	1.0	---	---			---	---	1.0	.0
9			6.0	.0	---	---			---	---	1.0	.0
10			3.5	.5	---	---			1.0	.5	1.0	.0
11			4.5	.5	---	---			1.0	.5	1.0	.0
12			3.5	.5	---	---			1.0	.5	1.0	.0
13			3.0	1.0	---	---			1.0	.5	.5	.0
14			3.0	.5	---	---			.5	.5	.5	.0
15			3.0	.5	---	---			.5	.0	1.0	.0
16			3.0	1.0	---	---			.5	.0	2.5	.0
17			4.5	1.0	---	---			1.5	.0	1.5	.0
18			4.0	1.0	---	---			1.0	.0	1.0	.0
19			4.0	.0	---	---			1.0	.0	2.5	.0
20			3.0	.0	---	---			1.0	.0	3.5	.0
21			2.5	1.0	---	---			1.0	.0	3.5	.0
22			2.5	.0	---	---			1.0	1.0	5.5	.0
23			2.5	.0	---	---			1.0	.5	6.0	.0
24			2.5	.0	---	---			1.0	.0	4.5	.0
25			2.5	.0	---	---			1.0	.0	4.5	.0
26			1.0	.0	---	---			1.0	.0	4.0	.0
27			1.0	.0	---	---			1.0	.0	6.5	.0
28			1.0	.0	---	---			1.0	.0	1.5	.0
29			1.0	1.0	---	---			---	---	.5	.0
30			1.0	1.0	---	---			---	---	3.5	.0
31			---	---	---	---			---	---	3.0	.0

09243700 MIDDLE CREEK NEAR OAK CREEK, CO--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.5	.0	14.5	11.5	21.0	14.5	20.0	17.0				
2	1.5	.0	19.5	9.5	20.0	17.5	19.0	16.5				
3	5.0	.0	14.0	10.5	20.5	17.0	19.5	17.0				
4	3.0	.5	14.5	10.5	22.5	17.5	19.0	17.0				
5	8.5	1.0	18.0	9.5	22.0	19.0	18.0	16.5				
6	10.0	1.0	18.0	10.5	21.5	19.0	17.5	15.0				
7	10.5	2.5	20.5	10.5	22.0	18.5	18.5	16.5				
8	11.0	3.5	21.5	11.5	22.0	19.0	17.0	15.0				
9	12.5	4.5	21.0	12.5	21.0	18.5	17.0	14.0				
10	11.5	5.5	17.0	12.5	21.0	18.0	16.5	15.5				
11	10.5	7.0	19.5	9.0	20.0	16.5	16.0	13.0				
12	8.5	6.0	18.0	11.0	21.5	15.0	16.5	15.0				
13	7.0	4.0	21.0	12.5	22.0	17.0	22.5	15.0				
14	10.5	2.5	16.5	11.5	22.5	17.0	23.0	11.0				
15	8.5	5.5	17.0	10.5	22.0	17.0	---	---				
16	12.0	5.5	19.0	12.0	22.0	16.5	---	---				
17	14.5	5.0	19.5	11.5	22.5	14.5	---	---				
18	13.5	7.5	17.0	13.0	22.0	17.0	25.0	14.0				
19	9.5	7.0	15.5	12.0	---	---	25.0	15.5				
20	11.5	6.0	15.0	11.0	---	---	---	---				
21	14.5	4.5	16.5	10.5	20.0	16.0	---	---				
22	16.0	5.5	18.5	11.0	21.5	16.0	---	---				
23	15.5	7.0	17.0	11.5	21.5	17.0	---	---				
24	17.0	8.0	16.5	12.0	21.0	17.5	---	---				
25	16.5	8.5	16.5	13.5	21.5	17.0	---	---				
26	17.5	8.5	15.0	13.0	21.5	18.5	---	---				
27	15.5	10.0	14.5	12.5	21.5	19.0	---	---				
28	14.5	11.0	15.0	13.5	25.0	18.5	---	---				
29	17.0	10.5	16.0	13.0	20.5	17.5	---	---				
30	17.5	10.0	19.0	14.0	20.5	16.0	---	---				
31	---	---	20.5	14.5	---	---	---	---				

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 (3.7 km) downstream from Reservoir No. 1, 0.9 mi (1.1 km) upstream from mouth, and 8.7 mi (14 km) northwest of Oak Creek.

DRAINAGE AREA.--8.61 mi² (22.30 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 6,880 ft (2,110 m), from topographic map.

REMARKS.--Records fair. Numerous beaver dams above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1.0 ft³/s (0.028 m³/s) Mar. 30, 1976, gage height, 2.45 ft (0.747 m); no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.16 ft³/s (0.005 m³/s) Apr. 20, gage height, 2.18 ft (0.664 m); no flow Oct. 1 to Mar. 7, June 16 to Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.06	.12	.05	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.05	.12	.05	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.06	.10	.04	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.06	.09	.04	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.07	.09	.04	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.09	.11	.04	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.10	.07	.05	.00	.00	.00
8	.00	.00	.00	.00	.00	.01	.09	.07	.05	.00	.00	.00
9	.00	.00	.00	.00	.00	.01	.07	.05	.06	.00	.00	.00
10	.00	.00	.00	.00	.00	.02	.06	.06	.06	.00	.00	.00
11	.00	.00	.00	.00	.00	.02	.09	.06	.06	.00	.00	.00
12	.00	.00	.00	.00	.00	.04	.08	.05	.06	.00	.00	.00
13	.00	.00	.00	.00	.00	.04	.08	.04	.06	.00	.00	.00
14	.00	.00	.00	.00	.00	.04	.08	.05	.05	.00	.00	.00
15	.00	.00	.00	.00	.00	.04	.10	.07	.01	.00	.00	.00
16	.00	.00	.00	.00	.00	.04	.12	.11	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.07	.12	.12	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.10	.12	.09	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.10	.13	.07	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.10	.16	.07	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.10	.14	.06	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.10	.16	.06	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.11	.16	.06	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.12	.16	.07	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.10	.15	.08	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.09	.14	.08	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.08	.15	.08	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.06	.14	.08	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.06	.15	.08	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.04	.14	.07	.00	.00	.00	.00
31	.00	---	.00	.00	---	.03	---	.06	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	1.52	3.28	2.39	.72	.00	.00	.00
MEAN	.000	.000	.000	.000	.000	.049	.11	.077	.024	.000	.000	.000
MAX	.00	.00	.00	.00	.00	.12	.16	.12	.06	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.05	.04	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	3.0	6.5	4.7	1.4	.00	.00	.00

CAL YR 1976 TOTAL 65.75 MEAN .18 MAX 1.0 MIN .00 AC-FT 130
WTR YR 1977 TOTAL 7.91 MEAN .022 MAX .16 MIN .00 AC-FT 16

NOTE.--NO GAGE-HEIGHT RECORD JAN. 26 TO MAR. 30.

GREEN RIVER BASIN

09243800 FOIDEL CREEK NEAR OAK CREEK, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1976 to current year.

WATER TEMPERATURES: May 1976 to current year.

INSTRUMENTATION.--Water-quality monitor since May 1976 (revised).

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,240 micromhos May 19, 1977; minimum, 208 micromhos May 15, 1976.

WATER TEMPERATURES: Maximum, 24.5°C June 19, 1976; minimum, 0.0°C Mar. 22, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,240 micromhos May 19; minimum, 833 micromhos Apr. 14.

WATER TEMPERATURES: Maximum 17.0°C June 14, 15; minimum, 0.0°C Mar. 22.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	HARDNESS (CA, MG)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORPTION RATIO
MAR 18...	1000	.10	1050	7.2	1.0	4.0	550	230	130	54	33	.6
APR 14...	1030	.08	850	7.2	5.0	6.5	410	160	98	41	30	.6
MAY 11...	0900	.06	1000	7.1	5.0	3.0	510	180	120	51	35	.7

DATE	TIME	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS PER DAY	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHOPHOSPHORUS (P) (MG/L)
MAR 18...	1000	4.4	388	0	320	300	6.5	.2	9.6	732	.20	.24	.02
APR 14...	1030	3.9	310	0	250	210	6.9	.3	8.3	552	.12	.04	.01
MAY 11...	0900	3.8	400	0	330	240	7.8	.2	9.4	666	.11	.02	.12

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CADMIUM (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED VANADIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ORGANIC CARBON (C) (MG/L)
MAR 18...	1000	80	1	4	180	1	1100	13	1	.0	20	8.6
APR 14...	1030	70	--	--	140	--	70	--	--	--	--	--
MAY 11...	0900	100	--	--	100	--	570	--	--	--	--	--

09243800 FIDEL CREEK NEAR OAK CREEK, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	982	920	1090			
2						---	973	926	1090			
3						---	977	959	1090			
4						---	985	---	1100			
5						---	977	959	1100			
6						---	969	962	1100			
7						---	962	975	1100			
8						---	969	980	1090			
9						---	975	989	1090			
10						---	956	991	1090			
11						---	923	987	1090			
12						---	883	1000	1100			
13						---	855	1010	1100			
14						---	847	1010	1100			
15						---	852	993	1100			
16						---	849	992	---			
17						---	853	980	---			
18						1040	868	983	---			
19						1010	874	1110	---			
20						1050	889	999	---			
21						1080	902	1010	---			
22						1010	903	1030	---			
23						993	906	1040	---			
24						1100	914	1050	---			
25						1110	920	1060	---			
26						1050	920	1060	---			
27						1010	924	1060	---			
28						979	929	1060	---			
29						1020	914	1060	---			
30						1010	913	1070	---			
31						991	---	1080	---			

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

[illegible]

09243800 FOIDEL CREEK NEAR JAK CREEK, CO--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.5	3.5	9.5	8.0	14.5	7.5						
2	5.5	3.5	12.5	6.5	14.0	8.5						
3	7.5	3.0	10.0	7.0	15.0	8.5						
4	5.5	3.0	11.5	7.0	16.5	9.0						
5	9.5	3.0	11.5	6.0	16.5	10.0						
6	11.0	3.5	13.5	6.5	15.5	11.0						
7	12.5	4.5	14.0	6.5	15.5	9.5						
8	13.5	5.5	13.0	7.0	15.0	10.5						
9	12.5	6.5	12.0	7.0	14.0	10.0						
10	11.5	6.5	10.0	6.5	14.5	9.5						
11	9.0	7.0	11.0	5.0	14.5	9.5						
12	8.0	6.0	9.0	5.5	16.5	9.0						
13	7.5	4.5	11.5	6.5	16.5	9.0						
14	8.5	4.0	9.0	6.0	17.0	9.5						
15	7.0	5.5	10.5	5.5	17.0	9.0						
16	9.5	4.5	13.0	7.0	---	---						
17	10.0	5.0	13.5	8.0	---	---						
18	10.0	6.5	11.5	8.0	---	---						
19	7.0	5.5	14.0	6.0	---	---						
20	9.0	5.0	10.5	6.0	---	---						
21	9.5	4.5	11.0	5.5	---	---						
22	10.0	5.0	12.0	6.0	---	---						
23	11.0	6.0	10.0	6.0	---	---						
24	11.0	7.0	10.5	6.5	---	---						
25	11.5	7.0	11.5	7.0	---	---						
26	11.0	7.0	10.0	6.5	---	---						
27	10.5	7.5	11.0	5.5	---	---						
28	10.5	8.0	10.0	7.0	---	---						
29	10.5	8.0	10.5	6.0	---	---						
30	11.0	7.0	14.5	7.5	---	---						
31	---	---	14.5	7.0	---	---						

GREEN RIVER BASIN

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 (1.4 km) upstream from mouth and 13.6 mi (21.9 km) northwest of Oak Creek.

DRAINAGE AREA.--17.5 mi² (45.3 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 6,730 ft (2,051 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. No regulation or diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 69 ft³/s (1.95 m³/s) Mar. 29, 1976, gage height, 4.84 ft (1.475 m); maximum gage height, 6.00 ft (1.829 m) Mar. 25, 1976 (backwater from ice); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.5 ft³/s (0.071 m³/s) Mar. 26, gage height, 1.82 ft (0.555 m); maximum gage height, 2.80 ft (0.853 m) Mar. 24 (backwater from ice); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	1.3	.12	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.01	1.0	.12	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.02	.62	.10	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.03	.56	.10	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.04	.53	.10	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.06	1.2	.07	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.08	1.1	.07	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.10	.65	.07	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.15	.53	.05	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.20	.38	.05	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.25	.32	.07	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.25	.35	.05	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.30	.38	.03	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.30	.38	.03	.00	.00	.00	.00
15	.00	.00	.00	.00	.01	.35	.29	.03	.00	.00	.00	.00
16	.00	.00	.00	.00	.01	.35	.26	.05	.00	.00	.00	.00
17	.00	.00	.00	.00	.02	.35	.26	.03	.00	.00	.00	.00
18	.00	.00	.00	.00	.02	.40	.26	.03	.00	.00	.00	.00
19	.00	.00	.00	.00	.02	.40	.20	.03	.00	.00	.00	.00
20	.00	.00	.00	.00	.01	.45	.23	.01	.00	.00	.00	.00
21	.00	.00	.00	.00	.01	.45	.20	.01	.00	.00	.00	.00
22	.00	.00	.00	.00	.01	.50	.18	.01	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.50	.16	.01	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.55	.18	.01	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.60	.14	.01	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	1.5	.12	.01	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	1.3	.14	.01	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	1.0	.14	.01	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.45	.12	.01	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.45	.14	.01	.00	.00	.00	.00
31	.00	---	.00	.00	---	.56	---	.01	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.11	11.95	12.32	1.32	.00	.00	.00	.00
MEAN	.000	.000	.000	.000	.004	.39	.41	.043	.000	.000	.000	.000
MAX	.00	.00	.00	.00	.02	1.5	1.3	.12	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.12	.01	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.2	24	24	2.6	.00	.00	.00	.00

CAL YR 1976 TOTAL 840.52 MEAN 2.30 MAX 64 MIN .00 AC-FT 1670
WTR YR 1977 TOTAL 25.70 MEAN .070 MAX 1.5 MIN .00 AC-FT 51

NOTE.--NO GAGE-HEIGHT RECORD DEC. 24 TO JAN. 30.

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1976 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1976 to current year.

WATER TEMPERATURE: April 1976 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1976.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,400 micromhos Apr. 7, 8, 1977; minimum, 631 micromhos Apr. 5, 1977.

WATER TEMPERATURES: Maximum, 27.5°C June 10, 1976; minimum, not determined.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,400 micromhos Apr. 7, 8; minimum, 631 micromhos Apr. 5.

WATER TEMPERATURES: Maximum, 26.5°C May 31; minimum, not determined.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO
MAR 18...	1230	.40	600	8.5	.0	5.0	270	120	69	23	31	.8
APR 14...	1300	.41	1260	7.8	10.5	10.2	560	260	130	57	70	1.3
MAY 11...	1100	.08	1100	7.9	11.5	8.3	500	190	120	49	53	1.0

DATE	TIME	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (CO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINEITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)
MAR 18...	7.3	184	0	150	150	7.1	.1	7.1	391	.42	1.2	.09	
APR 14...	4.8	350	0	300	370	11	.2	6.4	827	.92	.02	.01	
MAY 11...	3.4	380	0	310	290	8.6	.2	8.4	721	.16	.02	.03	

DATE	TIME	DIS- SOLVED ANTI- MONY (SB) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)
MAR 18...	1230	0	2	60	3	8	210	7
APR 14...	1300	--	--	80	--	--	120	--
MAY 11...	1100	--	--	50	--	--	120	--

DATE	TIME	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ORGANIC CARBON (C) (MG/L)
MAR 18...	200	.0	13	1	.3	10	13	
APR 14...	210	--	--	--	--	--	--	
MAY 11...	840	--	--	--	--	--	--	

GREEN RIVER BASIN

09243900 FIDEL CREEK AT MOUTH, NEAR OAK CREEK, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	1190				
2							---	1190				
3							---	1180				
4							---	1180				
5							999	1180				
6							902	1170				
7							1230	1140				
8							1340	1110				
9							1230	1090				
10							1240	1080				
11							1230	1090				
12							1160	1120				
13							1180	1110				
14							1210	1100				
15							1250	1140				
16							1250	1160				
17							1250	1150				
18							1250	1110				
19							1240	1100				
20							1230	1080				
21							1230	1060				
22							1220	1080				
23							1210	1070				
24							1220	1090				
25							1200	1060				
26							1200	1040				
27							1190	1040				
28							1200	1030				
29							1200	1030				
30							1190	1020				
31							---	997				

09243900 FIDEL CREEK AT MOUTH, NEAR UAK CREEK, CO--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	10.5	4.0								
2	---	---	20.5	2.5								
3	---	---	11.0	2.5								
4	---	---	12.5	4.5								
5	---	---	19.5	2.5								
6	---	---	19.0	3.5								
7	---	---	23.0	2.5								
8	---	---	25.0	3.0								
9	---	---	24.0	4.0								
10	---	---	15.0	2.5								
11	---	---	19.5	.0								
12	---	---	18.5	2.0								
13	---	---	22.5	5.5								
14	---	---	19.5	5.0								
15	---	---	16.0	4.0								
16	---	---	22.0	5.0								
17	---	---	21.5	3.5								
18	---	---	18.5	5.0								
19	---	---	16.0	1.5								
20	---	---	13.0	2.5								
21	---	---	17.5	1.0								
22	---	---	22.5	2.5								
23	---	---	18.5	3.5								
24	17.5	1.0	18.5	5.0								
25	16.0	.5	21.5	6.5								
26	17.0	1.0	17.0	4.5								
27	16.0	2.5	16.5	3.0								
28	14.0	5.0	15.0	5.5								
29	17.5	5.0	23.5	4.0								
30	20.5	2.5	25.5	7.5								
31	---	---	26.5	5.0								

GREEN RIVER BASIN

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.87 W., Routt County, Hydrologic Unit 14050001, in bay of Colorado-Ute Electric Co. pumphouse on left bank 300 ft (91 m) downstream from U.S. Highway 40, 0.1 mi (0.2 km) upstream from Sage Creek, 0.5 mi (0.8 km) downstream from diversion point of Gibraltar Canal, and 4.7 mi (7.6 km) east of Hayden.

DRAINAGE AREA.--1,430 mi² (3,700 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to current year. Prior to October 1972, records included flow in Gibraltar Canal.

GAGE.--Water-stage recorder. Altitude of gage is 6,380 ft (1,945 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Records show flow of river below Gibraltar Canal diversion. Natural flow of stream affected by diversions for irrigation of about 30,000 acres (121 km²) above and 200 acres (809,000 m²) below station, transbasin diversions, storage reservoirs, and return flow from irrigated areas.

AVERAGE DISCHARGE.--12 years, 1,023 ft³/s (28.97 m³/s), 741,200 acre-ft/yr (914 hm³/yr); does not include flow in Gibraltar Canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft³/s (467 m³/s) Apr. 27, 1974, gage height, 11.90 ft (3.627 m), from rating curve extended above 12,000 ft³/s (340 m³/s); minimum daily, 5.1 ft³/s (0.14 m³/s) July 19, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,920 ft³/s (82.7 m³/s) June 4, gage height, 6.39 ft (1.948 m), no peak above base of 5,000 ft³/s (14 m³/s); minimum daily, 5.1 ft³/s (0.14 m³/s) July 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	119	47	51	74	72	180	1660	1770	95	73	112
2	111	121	48	49	74	69	177	1430	2060	79	59	102
3	121	126	50	47	74	67	161	1520	2160	83	57	90
4	191	130	51	43	74	65	164	1360	2390	75	49	88
5	186	121	51	40	74	68	145	1070	2310	75	53	105
6	162	118	51	44	74	73	270	1050	2400	102	122	92
7	152	113	51	50	75	78	342	1360	2110	92	125	83
8	151	110	51	45	75	80	552	1630	1990	77	92	73
9	144	111	51	38	75	82	481	1850	2440	59	73	57
10	140	102	52	46	75	84	641	1950	2010	53	65	51
11	141	92	53	62	75	86	722	1460	1640	49	53	53
12	135	108	53	74	75	88	667	1310	1300	34	42	67
13	130	122	53	74	75	90	511	1260	1230	18	34	83
14	130	108	53	74	77	90	422	1600	1100	159	32	85
15	126	138	53	74	78	90	423	1660	960	14	34	77
16	122	118	53	74	80	90	378	1430	820	13	32	77
17	117	128	53	74	82	90	385	1470	720	15	38	79
18	116	98	53	75	83	90	534	1450	617	8.4	47	79
19	100	102	53	78	86	95	709	1440	521	5.1	63	71
20	91	102	53	80	87	100	566	1290	458	11	100	63
21	98	150	53	78	84	115	473	1140	392	24	90	55
22	110	144	53	76	82	130	538	1050	320	33	79	55
23	113	186	53	74	78	177	712	1110	270	85	75	69
24	118	153	53	74	70	205	890	1340	254	171	67	73
25	117	132	53	73	64	256	1010	1310	246	348	75	79
26	117	90	53	73	64	313	1150	1260	242	258	120	83
27	122	64	53	72	68	417	1230	1180	212	150	147	88
28	107	40	53	72	74	409	1290	1140	156	122	183	53
29	104	42	53	72	---	336	1450	1160	135	110	189	67
30	119	45	53	72	---	218	1500	1220	118	95	130	67
31	125	---	52	73	---	220	---	1440	---	85	130	---
TOTAL	3930	3333	1615	2001	2126	4443	18673	42600	33351	2597.5	2528	2276
MEAN	127	111	52.1	64.5	75.9	143	622	1374	1112	83.8	81.5	75.9
MAX	191	186	53	80	87	417	1500	1950	2440	348	189	112
MIN	91	40	47	38	64	65	145	1050	118	5.1	32	51
AC-FT	7800	6610	3200	3970	4220	8810	37040	84500	66150	5150	5010	4510
CAL YR 1976	TOTAL	288171.0	MEAN 787	MAX 5250	MIN 40	AC-FT 571600						
WTR YR 1977	TOTAL	119473.5	MEAN 327	MAX 2440	MIN 5.1	AC-FT 237000						

09244410 YAMPA RIVER BELOW DIVERSION, NEAR HAYDEN, CO--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG/L)
OCT										
13...	1200	130	288	7.4	6.5	7.2	100	11	26	8.7
NOV										
16...	1200	119	420	8.2	.0	8.5	130	0	33	11
DEC										
16...	1100	52	400	7.6	.0	15.3	130	11	34	11
JAN										
12...	1200	74	350	7.9	.0	12.6	120	0	30	9.8
20...	1000	80	320	7.2	5.0	8.8	--	--	--	--
FEB										
09...	1200	75	360	7.3	1.0	11.6	120	0	31	9.5
MAR										
16...	1100	89	330	7.4	.0	10.4	110	1	29	9.6
APR										
13...	1030	515	270	8.2	3.0	9.1	100	23	27	8.9
MAY										
17...	1230	1520	110	7.7	9.0	9.7	43	7	12	3.1
JUN										
07...	1030	2290	60	7.0	10.0	8.3	27	5	8.2	1.5
JUL										
06...	1200	103	200	7.7	17.5	7.7	75	1	21	5.4
AUG										
17...	1100	38	340	8.2	20.5	7.5	110	0	29	9.0
SEP										
28...	1055	77	274	8.3	11.5	7.5	100	1	27	7.8

DATE	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)
OCT										
13...	18	.8	2.1	109	0	89	30	11	.2	7.9
NOV										
16...	27	1.0	2.8	159	0	130	41	15	.3	11
DEC										
16...	24	.9	2.4	145	0	119	43	12	.3	13
JAN										
12...	23	.9	2.5	145	0	119	35	15	.2	16
20...	--	--	--	--	--	--	--	--	--	--
FEB										
09...	24	1.0	2.6	143	0	117	38	15	.3	15
MAR										
16...	22	.9	2.5	135	0	111	39	13	.3	15
APR										
13...	13	.6	3.1	99	0	81	40	6.7	.2	11
MAY										
17...	5.4	.4	1.4	43	0	35	14	2.5	.1	8.0
JUN										
07...	3.0	.3	.8	27	0	22	6.5	1.3	.1	4.9
JUL										
06...	12	.6	1.8	90	0	74	17	6.5	.2	6.2
AUG										
17...	28	1.2	3.2	150	0	120	33	15	.2	1.5
SEP										
28...	21	.9	2.3	120	0	98	25	9.5	.2	3.8

GREEN RIVER BASIN

09244410 YAMPA RIVER BELOW DIVERSION, NEAR HAYDEN, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)
OCT 13...	158	55.5	.01	.06	.48	.05	50	--	70	2600
NOV 16...	220	70.7	.00	.00	.30	.05	70	--	40	1200
DEC 16...	211	30.2	.28	.09	.41	.05	60	220	40	330
JAN 12...	203	40.6	.30	.20	.60	.12	50	--	80	--
20...	--	--	--	--	--	--	--	--	--	2700
FEB 09...	206	41.7	.31	.28	.54	.20	70	--	100	700
MAR 16...	197	47.3	.25	.13	3.2	.16	50	530	120	2500
APR 13...	159	221	.35	.08	.56	.09	40	--	310	2100
MAY 17...	68	279	.05	.07	.40	.05	30	--	250	3100
JUN 07...	40	264	.03	.06	1.0	.10	30	670	110	1300
JUL 06...	115	32.0	.01	.20	.29	.01	60	--	120	350
AUG 17...	193	20.3	.01	.01	.54	.05	80	--	20	950
SEP 28...	156	32.4	.05	.05	.40	.04	60	320	70	840

09244410 YAMPA RIVER BELOW DIVERSION, NEAR HAYDEN, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	DIS-SOLVED ALUMINUM (L) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYLLIUM (BE) (UG/L)	DIS-SOLVED BERYLLIUM (BE) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)
DEC 16...	1100	70	0	1	1	0	0	<10	0	0	0
MAR 16...	1100	130	0	1	1	0	0	<10	1	0	0
JUN 07...	1030	310	30	0	0	5	5	<10	1	0	0
SEP 28...	1055	150	30	1	1	0	10	20	2	0	0

DATE	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)
DEC 16...	<10	0	<100	1	30	40	40	40	.8	1.1	0
MAR 16...	<10	3	<100	6	30	20	40	30	.0	.0	1
JUN 07...	<10	5	<100	0	0	0	50	20	.0	.0	0
SEP 28...	<10	4	300	7	30	30	40	30	.1	.0	1

DATE	DIS-SOLVED MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED ORGANIC CARBON (C) (MG/L)
DEC 16...	0	<50	1	0	0	--	10	10	3.6	3.5
MAR 16...	0	<50	2	0	0	--	10	0	2.7	2.8
JUN 07...	0	<50	4	1	0	1.4	10	20	13	8.5
SEP 28...	0	<50	0	0	0	.0	30	10	4.4	5.9

09244410 YAMPA RIVER BELOW DIVERSION, NEAR HAYDEN, CO--Continued

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 to SEPTEMBER 1977

DATE TIME	OCT 13,76 1200		NOV 16,76 1200		DEC 16,76 1100		JAN 20,77 1000		FEB 9,77 1200		MAR 15,77 1100	
TOTAL CELLS/ML	2600		1200		330		2700		700		2500	
DIVERSITY: DIVISION	1.0		1.1		0.9		1.0		1.1		1.1	
..CLASS	1.0		1.1		1.3		1.0		1.1		1.1	
...ORDER	1.6		1.2		1.4		1.1		1.1		1.1	
...FAMILY	3.0		3.1		3.2		1.8		2.7		2.6	
....GENUS	3.0		3.4		3.4		1.8		3.1		2.6	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
..CHLOROPHYCEAE												
...CHLOROCOCCALES												
...CHARACIACEAE												
....SCHROEDERIA	--	-	--	-	--	-	--	-	--	-	--	-
...COELASTRACEAE												
....COELASTRUM	--	-	--	-	--	-	--	-	--	-	--	-
...MICRACTINIACEAE												
....GOLENKINIA	48	2	69	6	9	3	--	-	--	-	--	-
....MICRACTINIUM	--	-	31	3	16	5	--	-	--	-	--	-
...OOCYSTACEAE												
....ANKISTRODESMUS	--	-	61	5	23	7	--	-	39	6	30	1
....DICTYOSPHAERIUM	670#	26	--	-	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	9	3	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE												
....ACTINASTRUM	--	-	31	3	--	-	--	-	--	-	--	-
....SCENEDESMUS	380	15	280#	23	51#	15	73	3	--	-	45	2
....TETRASTRUM	--	-	--	-	--	-	--	-	--	-	--	-
...TETRASPORALES												
...COCCOMYXACEAE												
....ELAKATOTHRIX	--	-	--	-	5	1	--	-	--	-	--	-
...VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	-	--	-	2	1	27	1	--	-	--	-
...VOLVOCAEAE												
....GONIUM	190	7	--	-	--	-	--	-	--	-	--	-
....CYCLOTELLA	140	6	23	2	2	1	18	1	--	-	--	-
....MELOSIRA	--	-	--	-	--	-	--	-	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-	--	-	--	-
...PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	--	-	--	-	5	1	--	-	--	-	98	4
....COCCONEIS	48	2	15	1	*	0	*	0	11	2	*	0
...CYMBELLACEAE												
....AMPHORA	48	2	--	-	*	0	--	-	--	-	--	-
....CYMBELLA	--	-	--	-	--	-	*	0	18	3	30	1
....EPITHEMIA	--	-	110	9	7	2	110	4	85	12	61	2
...DIATOMACEAE												
....DIATOMA	48	2	77	6	46	14	150	6	71	10	110	4
...FRAGILARIACEAE												
....ASTERIONELLA	--	-	--	-	2	1	--	-	--	-	--	-
...FRAGILARIA	--	-	46	4	--	-	--	-	120#	17	--	-
....HANNAEA	--	-	--	-	--	-	--	-	4	1	*	0
....SYNEDRA	330	13	140	11	71#	22	54	2	60	9	68	3
...GOMPHONEMACEAE?												
....GOMPHONEMA	48	2	31	3	2	1	100	4	11	2	76	3
...MERIDIONACEAE												
....MERIDION	--	-	--	-	--	-	--	-	--	-	*	0
...NAVICULACEAE												
....DIPLONEIS	--	-	--	-	--	-	--	-	--	-	--	-
....NAVICULA	520#	20	84	7	21	6	100	4	75	11	140	6
...PINNULARIA	--	-	--	-	--	-	--	-	--	-	--	-
...NITZSCHACEAE												
....HANTZSCHIA	--	-	--	-	--	-	*	0	--	-	--	-
....NITZSCHIA	95	4	190#	16	37	11	150	5	28	4	140	5
...SURIPELLACEAE												
....CYMATOPLEURA	--	-	--	-	--	-	--	-	*	0	--	-
....SURIELLA	--	-	--	-	--	-	*	0	--	-	--	-
...CHRYSOPHYCEAE												
...CHRYSOMONADALES												
...OCHROMONADACEAE												
....DINOBRYON	--	-	--	-	--	-	--	-	--	-	*	0
...XANTHOPHYCEAE												
...HETEROTRICHIALES												
...TRIBONEMACEAE												
....TRIBONEMA	--	-	--	-	23	7	--	-	--	-	--	-

09244410 YAMPA RIVER BELOW DIVERSION, NEAR HAYDEN, CO--Continued

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 to SEPTEMBER 1977

DATE TIME	OCT 13,76 1200		NOV 16,76 1200		DEC 16,76 1100		JAN 20,77 1000		FEB 9,77 1200		MAR 16,77 1100	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...CHROCOCCALES												
...CHROCOCCACEAE												
...ANACYSTIS	--	-	--	-	--	-	--	-	--	-	--	-
...HORMOGONALES												
...OSCILLATORIACEAE												
...OSCILLATORIA	--	-	--	-	*	0	1900#	70	170#	25	530#	21
...SCYTONEMATACEAE												
...PLECTONEMA	--	-	--	-	--	-	--	-	--	-	1100#	45
EUGLENOPHYTA (EUGLENIDS)												
..EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
...TRACHELOMONAS	--	-	15	1	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)												
..DINOPHYCEAE												
..PERIDINIALES												
...PERIDINIACEAE												
...PERIDINIUM	--	-	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 to SEPTEMBER 1977

DATE TIME	APR 13,77 1030		MAY 17,77 1230		JUN 7,77 1030		JUL 6,77 1200		AUG 17,77 1100		SEP 28,77 1055	
TOTAL CELLS/ML	2100		3100		1300		350		950		840	
DIVERSITY: DIVISION	0.8		1.5		0.4		0.9		1.5		1.1	
..CLASS	0.8		1.6		0.5		0.9		1.5		1.1	
...ORDER	1.1		1.9		0.6		0.9		1.6		1.5	
....FAMILY	2.9		3.0		3.1		3.1		3.1		2.6	
.....GENJS	3.2		3.2		3.6		3.3		3.2		2.8	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
..CHLOROPHYCEAE												
...CHLOROCOCCALES												
....CHARACIACEAE												
.....SCHROEDERIA	--	-	--	-	--	-	--	-	6	1	--	-
....COELASTRACEAE												
.....COELASTRUM	--	-	1000#	32	--	-	--	-	200#	21	--	-
....MICRACTINIACEAE												
.....GOLENKINIA	--	-	--	-	--	-	--	-	--	-	--	-
....MICRACTINIUM	--	-	--	-	--	-	--	-	--	-	--	-
....OOCYSTACEAE												
.....ANKISTRODESMUS	--	-	38	1	11	1	29	8	--	-	59	8
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-	22	2	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-	56	6	--	-
....TETRAEDRON	--	-	--	-	--	-	3	1	--	-	--	-
....SCENEDESMACEAE												
.....ACTINASTRUM	--	-	--	-	--	-	--	-	--	-	--	-
....SCENEDESMUS	--	-	--	-	--	-	35	10	180#	19	250#	30
....TETRASTRUM	--	-	150	5	--	-	--	-	--	-	--	-
..TETRASPORALES												
...COCCOMYXACEAE												
....ELAKATOTHRIX	--	-	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	--	-	--	-
...VOLVOCAEAE												
....GONIUM	--	-	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA												
..BACILLARIOPHYCEAE												
...CENTRALES												
....COSCINODISCACEAE												
.....CYCLOTELLA	89	4	290	9	--	-	--	-	11	1	100	12
....MELOSIRA	26	1	--	-	22	2	--	-	--	-	--	-
.....STEPHANODISCUS	--	-	19	1	--	-	--	-	--	-	--	-
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	130	6	96	3	120	9	--	-	--	-	--	-
....COCCONEIS	77	4	--	-	45	3	56#	16	34	4	--	-
...CYMBELLACEAE												
....AMPHORA	--	-	--	-	11	1	9	2	--	-	--	-
....CYMBELLA	100	5	96	3	160	12	6	2	--	-	14	2
....EPITHEMIA	89	4	--	-	89	7	18	5	39	4	28	3
...DIATOMACEAE												
....DIATOMA	120	5	77	2	100	8	44	13	6	1	--	-
....FRAGILARIACEAE												
.....ASTERIONELLA	--	-	--	-	--	-	--	-	--	-	--	-
....FRAGILARIA	26	1	--	-	--	-	12	3	--	-	170#	20
....HANNAEA	38	2	150	5	56	4	--	-	--	-	--	-
....SYNEDRA	13	1	150	5	56	4	--	-	50	5	14	2
...GOMPHONEMATACEAE												
....GOMPHONEMA	130	6	120	4	180	14	38	11	--	-	--	-
...MERIDIONACEAE												
....MERIDION	--	-	--	-	--	-	--	-	--	-	--	-
...NAVICULACEAE												
....DIPLONEIS	--	-	--	-	11	1	--	-	--	-	--	-
....NAVICULA	420#	20	310	10	200#	16	79#	22	95	10	49	6
....PINNULARIA	--	-	--	-	11	1	--	-	--	-	--	-
...NITZSCHACEAE												
....NANTZSCHIA	--	-	--	-	--	-	--	-	--	-	--	-
....NITZSCHIA	310	14	19	1	120	9	15	4	90	9	130#	16
...SURIPELLACEAE												
....CYMATOPLEURA	--	-	--	-	--	-	--	-	--	-	--	-
....SURIPELLA	--	-	19	1	--	-	--	-	--	-	--	-
..CHRYSOPHYCEAE												
...CHRYSOMONADALES												
....OCHROMONADACEAE												
.....DINOBYRON	--	-	38	1	11	1	--	-	--	-	--	-
...XANTHOPHYCEAE												

09244410 YAMPA RIVER BELOW DIVERSION, NEAR HAYDEN, CO--Continued

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 to SEPTEMBER 1977

DATE TIME	APR 13, 77 1030		MAY 17, 77 1230		JUN 7, 77 1030		JUL 6, 77 1200		AUG 17, 77 1100		SEP 29, 77 1055	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...CHROCCOCCALES												
...CHROCCOCCAEAE												
....ANACYSTIS	--	-	560#	18	--	-	--	-	--	-	--	-
...HORMOGONALES												
...OSCILLATORIACEAE												
....OSCILLATORIA	580#	27	--	-	89	7	--	-	150#	16	--	-
...SCYTONEMATACEAE												
....PLECTONEMA	--	-	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
..EUGLENOPHYCEAE												
...EUGLENALES												
...EUGLENACEAE												
....TRACHELOMONAS	--	-	--	-	--	-	9	2	6	1	14	2
PYRRHOPHYTA (FIRE ALGAE)												
..DINOPHYCEAE												
...PERIDINIALES												
...PERIDINIACEAE												
....PERIDINIUM	--	-	--	-	--	-	--	-	6	1	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

GREEN RIVER BASIN

09244470 STOKES GULCH AT HAYDEN, CO

LOCATION.--Lat 40°28'06", long 107°14'47", in NW¼NE¼ sec.22, T.6 N., R.88 W., Routt County, Hydrologic Unit 14050001, on right bank at Routt County Highway 53 crossing and 2 mi (3.2 km) south of Hayden.

DRAINAGE AREA.--13.6 mi² (35.2 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,375 ft (1,943 m), from topographic map.

REMARKS.--Records excellent.

EXTREMES.--No flow for period of record.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
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	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.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	.00	.00	.00	.00	.00	.00	.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WTR YR 1977	TOTAL	0.00	MEAN	.000	MAX	.00	MIN	.00	AC-FT	.00		

09245000 ELKHEAD CREEK NEAR ELKHEAD, COLO.

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 (0.3 km) upstream from North Fork Elkhead Creek, 4.5 mi (7.2 km) northwest of Elkhead, and 12 mi (19 km) north of Hayden.

DRAINAGE AREA.--64.2 mi² (166.3 km²).

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. Altitude of gage is 6,845 ft (2,086 m), from topographic map. Prior to Nov. 30, 1920, nonrecording gage or water-stage recorder 675 ft (210 m) upstream at different datum.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--24 years (water years 1954-77), 51.3 ft³/s (1.453 m³/s), 37,170 acre-ft/yr (45.8 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,660 ft³/s (47.0 m³/s) May 22, 1920; no flow Sept. 1, 1954, Sept. 12-19, 24, 1955, Aug. 27-29, 1961, Aug. 14-19, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 292 ft³/s (8.27 m³/s) Apr. 10, gage height, 4.34 ft (1.323 m), no peak above base of 800 ft³/s (23 m³/s); no flow Aug. 14-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	3.2	3.0	1.2	3.0	4.5	6.2	87	36	1.4	.69	1.0
2	2.4	3.2	3.0	1.2	3.0	4.5	6.5	65	32	1.4	.52	.75
3	3.0	3.3	3.0	1.2	3.0	4.6	6.9	70	27	1.4	.41	.58
4	5.7	3.3	3.0	1.2	3.0	4.7	7.2	60	24	1.4	.36	.62
5	4.9	3.5	3.0	1.1	3.0	4.8	8.4	54	22	1.5	.44	.65
6	4.0	3.4	3.2	1.0	3.0	4.9	20	50	20	1.4	.39	.59
7	3.8	3.5	3.4	.90	3.0	4.9	87	50	19	1.3	1.3	.54
8	3.5	3.7	3.6	.80	3.1	5.0	195	49	17	.94	1.3	.52
9	3.3	3.7	3.7	.90	3.1	5.0	226	45	22	.75	1.1	.24
10	3.0	3.7	4.0	1.0	3.2	5.0	262	42	17	.56	.74	.16
11	3.0	3.9	3.9	1.2	3.2	5.1	259	35	13	.40	.49	.10
12	2.8	3.9	3.6	1.3	3.3	5.1	202	32	11	.29	.31	.39
13	2.7	3.8	4.0	1.4	3.3	5.1	180	29	9.4	.13	.14	.81
14	2.6	3.8	4.0	1.5	3.4	5.1	116	36	8.3	.17	.00	.65
15	2.6	3.8	4.0	1.6	3.4	5.2	61	109	7.1	.23	.00	.67
16	2.6	3.9	4.0	1.7	3.5	5.2	40	180	6.2	.43	.00	.76
17	2.6	4.0	4.0	1.8	3.6	5.2	50	156	5.6	.34	.00	.80
18	2.6	4.0	4.0	1.9	3.6	5.2	95	124	5.1	.24	.00	.82
19	2.6	4.0	4.0	2.0	3.7	5.2	92	91	4.6	.21	.00	.57
20	2.6	4.4	4.0	2.1	3.7	5.2	53	75	4.3	.42	.98	.49
21	2.6	4.9	4.0	2.2	3.8	5.2	65	64	3.7	.79	2.0	.67
22	2.6	4.8	4.0	2.2	3.8	5.3	94	56	3.5	1.8	1.5	.78
23	2.6	4.9	3.9	2.3	3.9	5.4	118	51	3.4	1.7	1.1	1.1
24	2.6	4.8	3.7	2.4	4.0	5.5	128	46	3.1	1.3	1.1	1.6
25	2.7	4.8	3.6	2.5	4.1	5.5	110	45	3.1	1.4	1.6	1.5
26	2.8	4.9	3.6	2.6	4.2	5.5	97	45	3.1	1.8	2.3	1.2
27	2.8	4.8	3.6	2.6	4.2	5.5	97	49	2.8	1.5	3.3	1.1
28	2.8	3.9	3.6	2.7	4.3	5.7	114	48	2.5	1.2	3.8	1.2
29	3.0	3.0	2.4	2.8	---	5.8	108	58	2.0	.88	2.7	1.2
30	3.0	3.0	1.2	2.9	---	6.1	98	52	1.7	.95	1.8	1.3
31	3.0	---	1.2	3.0	---	6.2	---	43	---	.77	1.3	---
TOTAL	93.3	117.8	107.2	55.20	97.4	161.2	3002.2	1996	339.5	29.00	31.67	23.36
MEAN	3.01	3.93	3.46	1.78	3.48	5.20	100	64.4	11.3	.94	1.02	.78
MAX	5.7	4.9	4.0	3.0	4.3	6.2	262	180	36	1.8	3.8	1.6
MIN	2.4	3.0	1.2	.80	3.0	4.5	6.2	29	1.7	.13	.00	.10
AC-FT	185	234	213	109	193	320	5950	3960	673	58	63	46

CAL YR 1976 TOTAL 14714.78 MEAN 40.2 MAX 445 MIN .08 AC-FT 29190
WTR YR 1977 TOTAL 6053.83 MEAN 16.6 MAX 262 MIN .00 AC-FT 12010

GREEN RIVER BASIN

09246550 YAMPA RIVER BELOW ELKHEAD CREEK, NEAR CRAIG, CO

LOCATION--Lat 40°29'50", long 107°30'34", in NW¼NE¼ sec.8,T.6 N., R.90 W., Moffat County, Hydrologic Unit 14050001, 350 ft (107 m) northeast of Craig airport runway, 2.3 mi (3.6 km) east of old State Highways 789 and 394 junction south of Craig, and about 1.5 mi (2.4 km) upstream from mouth of Fortification Creek.

PERIOD OF RECORD--June 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)
OCT										
13...	1000	E133	370	7.3	7.5	6.6	--	120	16	30
NOV										
16...	1000	E122	430	--	.5	9.0	--	150	14	37
DEC										
16...	0930	E57	320	8.0	.0	15.0	--	150	20	37
JAN										
12...	1100	E75	374	7.7	.0	12.4	--	130	1	33
19...	1200	E90	280	8.1	.0	11.7	--	130	33	31
FEB										
09...	1000	E78	420	7.4	.0	10.8	--	130	3	33
MAR										
15...	1300	E95	400	7.6	.0	13.0	--	130	15	34
APR										
13...	0900	E91	270	7.7	2.5	11.1	--	110	23	27
MAY										
17...	1000	E1500	180	7.6	9.0	8.7	--	68	13	18
JUN										
07...	0830	E2130	80	7.3	12.0	7.8	3.1	32	5	9.5
JUL										
06...	1030	E103	340	7.8	18.0	6.0	3.1	120	16	31
AUG										
17...	0900	E38	625	7.4	20.5	--	5.7	200	45	44
SEP										
28...	0910	E54	420	7.6	12.5	5.9	--	140	14	35

DATE	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
OCT										
13...	11	23	.9	2.2	127	0	104	48	13	.2
NOV										
16...	13	30	1.1	2.5	161	0	132	56	13	.2
DEC										
16...	13	26	.9	2.6	154	0	126	54	12	.3
JAN										
12...	11	25	1.0	2.5	155	0	127	45	15	.3
19...	13	22	.8	2.2	120	0	98	44	10	.3
FEB										
09...	11	25	1.0	2.4	152	0	125	45	17	.3
MAR										
15...	12	26	1.0	3.4	145	0	119	57	14	.3
APR										
13...	9.2	15	.6	2.9	100	0	82	44	6.2	.2
MAY										
17...	5.6	9.5	.5	2.0	67	0	55	26	3.5	.2
JUN										
07...	2.0	3.8	.3	.9	33	0	27	9.4	1.5	.1
JUL										
06...	11	24	.9	2.3	130	0	110	47	7.4	.2
AUG										
17...	22	66	2.0	3.5	190	0	160	150	22	.3
SEP										
28...	12	29	1.1	2.7	150	0	120	49	15	.3

E ESTIMATED.

GREEN RIVER BASIN

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09246550 YAMPA RIVER BELOW ELKHEAD CREEK, NEAR CRAIG, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED SOLIDS (SJM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)
OCT										
13...	4.7	195	.00	.02	.46	.08	70	--	50	2200
NOV										
16...	8.2	239	.01	.00	.54	.05	90	--	50	1100
DEC										
16...	9.5	230	.25	.00	.56	.02	70	270	60	950
JAN										
12...	15	223	.40	.20	.52	.08	70	--	60	1400
19...	11	193	.20	.02	.57	.06	50	--	690	--
FEB										
09...	12	221	.41	.17	.47	.08	60	--	70	630
MAR										
15...	11	229	.37	.05	.48	.59	70	470	120	910
APR										
13...	9.2	163	.33	.07	.59	.16	80	--	320	18000
MAY										
17...	7.8	106	.09	.05	.22	.07	40	--	280	610
JUN										
07...	5.3	49	.01	.01	.37	.05	30	1100	130	1500
JUL										
06...	4.0	191	.03	.29	.53	.03	70	--	140	390
AUG										
17...	4.9	407	.03	.11	.84	.07	120	--	20	7000
SEP										
28...	3.8	221	.01	.05	.46	.05	80	590	60	2500

09246550 YAMPA RIVER BELOW ELKHEAD CREEK, NEAR CRAIG, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	DIS-SOLVED ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYLLIUM (BE) (UG/L)	DIS-SOLVED BERYLLIUM (BE) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)
DEC 16...	0930	90	10	1	1	0	0	<10	1	0	0
JAN 19...	1200	--	--	--	--	--	--	--	--	--	--
MAR 15...	1300	140	0	1	1	0	0	<10	0	0	10
JUN 07...	0830	550	20	2	0	0	0	<10	1	0	0
SEP 28...	0910	330	30	1	0	0	10	<10	0	0	0

DATE	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)
DEC 16...	<10	7	<100	1	30	30	30	20	4.5	2.2	1
JAN 19...	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	<10	4	<100	3	30	20	50	40	.0	.0	0
JUN 07...	<10	1	<100	1	0	0	60	20	.0	.0	0
SEP 28...	<10	4	<100	0	30	30	70	30	.2	.0	1

DATE	DIS-SOLVED MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED ORGANIC CARBON (C) (MG/L)
DEC 16...	0	<50	4	1	1	--	30	10	5.0	4.8
JAN 19...	--	--	--	--	--	--	--	--	3.9	2.9
MAR 15...	0	<50	4	1	1	--	20	10	4.5	4.0
JUN 07...	0	<50	2	0	0	1.2	20	10	9.1	7.7
SEP 28...	0	<50	1	0	0	.0	20	10	4.0	5.1

09246550 YAMPA RIVER BELOW ELKHEAD CREEK NEAR CRAIG, CO--Continued

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 to SEPTEMBER 1977

DATE TIME	OCT 13,76 1000		NOV 16,76 1000		DEC 16,76 0930		JAN 12,77 1100		FEB 9,77 1000		MAR 15,77 1300	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...CHROCOCCALES												
...CHROCOCCACEAE												
....ANACYSTIS	--	-	--	-	--	-	--	-	--	-	--	-
...HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE												
....LYNGBYA	--	-	--	-	150#	15	--	-	29	5	--	-
...OSCILLATORIA	--	-	--	-	100	11	--	-	92	15	140#	15
....PHORMIDIUM	--	-	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
..CRYPTOPHYCEAE												
...CRYPTOMONIDALES												
...CRYPTOCHRYSIDACEAE												
....CHROOMONAS	--	-	--	-	--	-	--	-	--	-	--	-
...CRYPTOMONODACEAE												
....CRYPTOMONAS	--	-	--	-	--	-	--	-	--	-	--	-
..EUGLENOPHYCEAE												
...EUGLENALES												
...EUGLENACEAE												
....TRACHELOMONAS	45	2	--	-	--	-	25	2	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)												
..DINOPHYCEAE												
...PERIDINIALES												
...PERIDINIACEAE												
....PERIDINIUM	--	-	--	-	--	-	--	-	--	-	--	-

09246550 YAMPA RIVER BELOW ELKHEAD CREEK NEAR CRAIG, CO--Continued

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 to SEPTEMBER 1977

DATE TIME	OCT 13,76 1000		NOV 16,76 1000		DEC 16,76 0930		JAN 12,77 1100		FEB 9,77 1000		MAR 15,77 1300	
TOTAL CELLS/ML	2200		1100		950		1400		630		910	
DIVERSITY: DIVISION	1.1		1.0		1.4		0.9		1.2		0.9	
..CLASS	1.1		1.0		1.4		0.9		1.3		1.9	
...ORDER	1.2		1.0		1.5		1.3		1.3		1.0	
...FAMILY	2.9		2.6		2.8		2.1		2.0		2.8	
....GENUS	3.1		2.7		3.1		2.3		2.3		2.9	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
..CHLOROPHYCEAE												
...CHLOROCOCCALES												
...COELASTRACEAE												
....COELASTRUM	--	-	--	-	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE												
....PEDIASTRUM	--	-	--	-	--	-	--	-	--	-	--	-
...MICRACTINIACEAE												
....GOLENKINIA	--	-	30	3	--	-	--	-	--	-	--	-
...MICRACTINIUM	--	-	130	12	--	-	--	-	--	-	--	-
...OOCYSTACEAE												
....ANKISTRODESMUS	140	6	120	11	46	5	--	-	3	1	14	2
...CHODATELLA	--	-	--	-	--	-	--	-	--	-	--	-
...DICTYOSPHAERIUM	--	-	--	-	--	-	--	-	13	2	--	-
...KIRCHNERIELLA	--	-	--	-	6	1	--	-	--	-	--	-
...OOCYSTIS	--	-	--	-	--	-	--	-	--	-	--	-
...POLYDRIOPSIS	--	-	--	-	--	-	--	-	--	-	--	-
...SELENASTRUM	--	-	--	-	--	-	50	4	--	-	--	-
...TETRAEDRON	--	-	--	-	--	-	25	2	--	-	--	-
...TREUBARIA	--	-	--	-	--	-	--	-	--	-	--	-
...WESTELLA	360#	16	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE												
....ACTINASTRUM	--	-	--	-	--	-	--	-	--	-	--	-
...CRUCIGENIA	--	-	--	-	--	-	50	4	--	-	--	-
...SCENEDESMUS	410#	18	230#	21	130	13	170	12	54	9	42	5
...VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	--	-	--	-
...VOLVOCAEAE												
....PANDORINA	--	-	--	-	--	-	--	-	--	-	--	-
...ZYGNEMATALES												
...ZYGNEMATAEAE												
....MOUGEOTIA	--	-	--	-	--	-	--	-	--	-	--	-
...CYCLOTELLA	45	2	--	-	12	1	120	9	* 0		7	1
....MELOSIRA	--	-	--	-	--	-	--	-	--	-	--	-
...STEPHANODISCUS	--	-	--	-	--	-	--	-	--	-	--	-
...PENNALES												
...ACHVANTHACEAE												
....ACHNANTHES	--	-	--	-	--	-	--	-	--	-	--	-
...COCCONEIS	90	4	--	-	12	1	12	1	* 0		7	1
...RHOICOSPHEINIA	--	-	--	-	--	-	--	-	* 0		--	-
...CYMBELLACEAE												
....AMPHORA	90	4	--	-	--	-	--	-	--	-	--	-
...CYMBELLA	--	-	--	-	--	-	--	-	* 0		7	1
...EPITHEMIA	45	2	110	11	35	4	25	2	6	1	94	9
...RHOPALODIA	--	-	--	-	--	-	--	-	--	-	--	-
...DIATOMACEAE												
....DIATOMA	45	2	84	8	12	1	62	4	22	4	150#	16
...FRAGILARIACEAE												
....ASTERIONELLA	--	-	--	-	--	-	--	-	--	-	--	-
...FRAGILARIA	--	-	--	-	--	-	--	-	16	3	--	-
...HANNAEA	--	-	--	-	--	-	--	-	--	-	--	-
...SYNEDRA	500#	22	320#	30	190#	20	810#	58	350#	56	290#	31
...GOMPHONEMATAEAE												
....GOMPHONEMA	45	2	--	-	--	-	--	-	* 0		42	5
...MERIDIONACEAE												
....MERIDION	--	-	--	-	--	-	--	-	--	-	--	-
...NAVICULACEAE												
....CALONEIS	--	-	--	-	--	-	--	-	--	-	--	-
...FRUSTULIA	--	-	--	-	6	1	--	-	--	-	--	-
...NAVICULA	90	4	30	3	81	9	25	2	13	2	35	4
...NEIDIUM	--	-	--	-	--	-	--	-	--	-	7	1
...NITZSCHACEAE												
....NITZSCHIA	320	14	15	1	170#	18	25	2	22	4	98	11
...SURIRELLACEAE												
....SURIRELLA	--	-	--	-	--	-	--	-	--	-	--	-
...CHRYSOPHYCEAE												
...CHRYSOMONADALES												
...SYNJURACEAE												
....SYNJURA	--	-	--	-	--	-	--	-	10	2	--	-

09246550 YAMPA RIVER BELOW ELKHED CREEK NEAR CRAIG, CO--Continued

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 to SEPTEMBER 1977

DATE TIME	APR 13,77 0900		MAY 17,77 1000		JUN 7,77 0830		JUL 6,77 1030		AUG 17,77 0900		SEP 28,77 0910	
TOTAL CELLS/ML	18000		610		1500		390		7000		2500	
DIVERSITY: DIVISION	1.0		0.4		0.5		1.6		0.8		1.1	
..CLASS	1.0		0.4		0.5		1.6		0.9		1.1	
..ORDER	1.4		0.9		0.5		2.3		1.4		1.4	
...FAMILY	2.5		3.2		3.0		3.2		2.5		2.3	
....GENUS	3.1		3.4		3.3		3.3		3.5		2.3	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
..CHLOROPHYCEAE												
...CHLOROCOCCALES												
....COELASTRACEAE												
....COELASTRUM	1200	7	--	-	--	-	--	-	280	4	120	5
....HYDRODICTYACEAE												
....PEDIASTRUM	--	-	--	-	--	-	--	-	--	-	280	11
....MICRACTINIACEAE												
....GOLENKINIA	--	-	--	-	--	-	--	-	210	3	--	-
....MICRACTINIUM	460	3	--	-	--	-	--	-	1200#	17	--	-
....OOCYSTACEAE												
....ANKISTRODESMUS	620	3	--	-	25	2	33	9	*	0	70	3
....CHODATELLA	*	0	--	-	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	310	2	57	9	--	-	--	-	1800#	25	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-	69	1	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-	210	3	--	-
....POLYDRIOPSIS	--	-	--	-	--	-	--	-	*	0	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-	69	1	--	-
....TREUBARIA	--	-	--	-	--	-	9	2	310	4	--	-
....WESTELLA	--	-	--	-	--	-	--	-	620	9	--	-
..SCENEDESMACEAE												
....ACTINASTRUM	310	2	--	-	--	-	--	-	280	4	--	-
....CRUCIGENIA	310	2	--	-	--	-	--	-	--	-	--	-
....SCENEDESMUS	5300#	29	--	-	49	3	--	-	69	1	1300#	51
..VOLVOCALES												
..CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	100	1	--	-
..VOLVOCAEAE												
....PANDORINA	--	-	--	-	--	-	21	5	550	8	--	-
..ZYGNEMATALES												
..ZYGNEMATAEAE												
....MOUGEOTIA	--	-	--	-	--	-	--	-	--	-	100	4
CHRYSOPHYTA												
..BACILLARIOPHYCEAE												
..CENTRALES												
..COSCINODISCACEAE												
....CYCLOTELLA	1400	8	71	12	--	-	15	4	100	1	17	1
....MELOSIRA	--	-	--	-	--	-	6	2	--	-	--	-
....STEPHANODISCUS	620	3	--	-	--	-	--	-	--	-	--	-
..PENNALES												
..ACHNANTHACEAE												
....ACHNANTHES	--	-	--	-	380#	25	--	-	--	-	--	-
....COCCONEIS	--	-	14	2	12	1	30	8	*	0	--	-
....RHOICOSPHENIA	--	-	--	-	--	-	--	-	--	-	--	-
..CYMBELLACEAE												
....AMPHORA	--	-	--	-	--	-	--	-	--	-	--	-
....CYMBELLA	--	-	28	5	150	10	--	-	--	-	--	-
....EPITHEMIA	--	-	57	9	120	8	12	3	100	1	17	1
....RHOPALODIA	--	-	--	-	12	1	--	-	--	-	--	-
..DIATOMACEAE												
....DIATOMA	150	1	71	12	49	3	6	2	--	-	--	-
..FRAGILARIACEAE												
....ASTERIONELLA	2200	12	--	-	--	-	--	-	--	-	--	-
....FRAGILARIA	3200#	18	--	-	49	3	--	-	--	-	--	-
....HANNAEA	--	-	28	5	37	2	--	-	--	-	--	-
....SYNEDRA	--	-	43	7	--	-	24	6	--	-	--	-
..GOMPHONEMATAEAE												
....GOMPHONEMA	--	-	57	9	49	3	12	3	--	-	--	-
..MERIDIONACEAE												
....MERIDION	--	-	--	-	12	1	--	-	--	-	--	-
..NAVICULACEAE												
....CALONEIS	*	0	--	-	--	-	--	-	--	-	*	0
....FRUSTULIA	--	-	--	-	--	-	--	-	--	-	--	-
....NAVICULA	*	0	99#	16	320#	21	48	12	--	-	17	1
....NEIDIUM	--	-	--	-	--	-	--	-	--	-	--	-
..NITZSCHACEAE												
....NITZSCHIA	1700	9	71	12	170	11	3	1	--	-	220	9
..SURIRELLACEAE												
....SURIRELLA	--	-	14	2	37	2	--	-	--	-	--	-

GREEN RIVER BASIN

09246550 YAMPA RIVER BELOW ELKHEAD CREEK NEAR CRAIG, CO--Continued

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 to SEPTEMBER 1977

DATE TIME	APR 13,77 0900		MAY 17,77 1000		JUN 7,77 0830		JUL 6,77 1030		AUG 17,77 0900		SEP 28,77 0910	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...CHROCOCCALES												
...CHROCOCCACEAE												
....ANACYSTIS	--	-	--	-	--	-	110#	27	--	-	--	-
...HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	--	-	--	-	--	-	350	14
...OSCILLATORIACEAE												
....LYNGBYA	--	-	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIA	--	-	--	-	74	5	--	-	--	-	--	-
....PHORMIDIUM	--	-	--	-	--	-	57	15	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
..CRYPTOPHYCEAE												
...CRYPTOMONIDALES												
...CRYPTOCHRYSIDACEAE												
....CHROOMONAS	--	-	--	-	--	-	--	-	100	1	--	-
...CRYPTOMONODACEAE												
....CRYPTOMONAS	--	-	--	-	--	-	--	-	--	-	26	1
..EUGLENOPHYCEAE												
...EUGLENALES												
...EUGLENACEAE												
....TRACHELOMONAS	--	-	--	-	--	-	6	2	830	12	--	-
PYRRHOPHYTA (FIRE ALGAE)												
..DINOPHYCEAE												
...PERIDINIALES												
...PERIDINIACEAE												
....PERIDINIUM	--	-	--	-	--	-	--	-	69	1	--	-

09247600 YAMPA RIVER BELOW CRAIG, CO

LOCATION.--Lat 40°29'04", long 107°36'23", in SW¼SE¼ sec.9, T.6 N., R.91 W., Moffat County, Hydrologic Unit 14050001, at State Highways 13 and 789 bridge about 0.5 mi (0.8 km) above the mouth of Johnson Gulch and about 3 mi (4.8 km) southwest of Craig.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	DIS-SOLVED ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYLLIUM (BE) (UG/L)	DIS-SOLVED BERYLLIUM (BE) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)
DEC 08...	1145	150	30	2	1	0	0	10	1	0	0
MAR 25...	1000	200	20	1	0	0	0	<10	1	0	0

DATE	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)
DEC 08...	<10	3	<100	1	30	30	40	40	.0	.0	1
MAR 25...	20	7	<100	3	30	30	70	40	.0	.0	1

DATE	DIS-SOLVED MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED ORGANIC CARBON (C) (MG/L)
DEC 08...	0	<50	1	1	1	.2	20	10	3.2	5.5
MAR 25...	0	<50	10	1	1	.1	20	20	4.2	5.0

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)
OCT 04...	229	101	.03	.01	.68	.08	90	--	90	--
NOV 24...	253	102	.03	.09	.25	.13	70	--	90	2400
DEC 08...	257	114	.04	.03	.42	.07	80	290	70	2500
JAN 28...	232	80.2	.45	.44	.53	.17	70	--	90	630
FEB 24...	253	161	.36	.14	.54	.14	70	--	180	1300
MAR 25...	236	151	.22	.12	--	.06	60	700	110	940
APR 22...	157	286	.00	.00	.34	.02	40	--	370	6900
MAY 13...	90	321	.03	.09	.76	.05	50	--	240	3100
JUL 08...	240	--	.03	.02	.84	.08	90	--	130	5600
21...	370	10.7	.00	.01	1.2	.10	120	--	100	29000
AUG 09...	--	--	.03	.00	.50	.10	110	--	10	8700

GREEN RIVER BASIN

09247600 YAMPA RIVER BELOW CRAIG, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)
OCT 04...	27	1.0	2.4	141	0	116	67	11	.4	3.3
NOV 24...	32	1.1	2.4	167	0	137	65	11	.2	6.2
DEC 08...	31	1.1	2.9	169	0	139	62	15	.2	8.7
JAN 28...	28	1.0	2.5	152	0	125	52	13	.3	12
FEB 24...	35	1.3	3.2	154	0	126	63	16	.2	9.2
MAR 25...	28	1.1	3.8	137	0	110	70	13	.2	8.8
APR 22...	16	.7	2.2	100	0	82	41	5.6	.2	7.3
MAY 13...	11	.7	1.7	42	0	34	27	8.1	.2	6.3
JUL 08...	31	1.2	2.4	150	0	120	80	7.0	.2	.2
21...	62	2.0	3.4	220	0	180	120	12	.3	3.2
AUG 09...	--	--	1.5	170	0	140	110	16	.3	.9

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)
OCT 04...	0925	164	375	7.6	10.0	8.1	140	25	35	13
NOV 24...	1300	149	440	8.3	2.0	12.9	160	22	39	15
DEC 08...	1145	164	440	8.0	1.0	11.6	160	19	40	14
JAN 28...	1400	128	400	7.8	.0	9.7	140	17	37	12
FEB 24...	1135	235	330	7.7	1.0	11.1	150	21	36	14
MAR 25...	1000	237	345	8.1	1.0	10.9	130	17	32	12
APR 22...	1000	674	240	8.3	9.5	10.1	100	19	26	8.7
MAY 13...	1030	1320	105	7.8	10.0	9.2	42	7	11	3.5
JUL 08...	0700	E80	400	7.9	15.0	--	130	9	33	12
21...	1230	10	570	8.1	24.0	6.9	180	1	43	18
AUG 09...	1245	107	370	7.7	22.0	7.6	35	0	14	.1

J9247600 YAMPA RIVER BELOW CRAIG, CO--Continued

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 to SEPTEMBER 1977

DATE TIME	NOV 24,76 1300		DEC 8,76 1145		JAN 28,77 1400		FEB 24,77 1135		MAR 25,77 1000		APR 22,77 1000	
TOTAL CELLS/ML	2400		2500		630		1300		940		6900	
DIVERSITY: DIVISION	1.3		1.5		1.4		1.1		0.5		1.5	
..CLASS	1.3		1.5		1.4		1.1		0.5		1.5	
...ORDER	1.4		1.6		1.4		1.1		0.8		2.1	
...FAMILY	2.7		2.2		2.4		2.8		3.1		3.1	
....GENJS	3.0		2.5		2.4		2.8		3.2		3.4	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
..CHLOROPHYCEAE												
...CHLOROCOCCALES												
...CHARACIACEAE												
....SCHROEDERIA	--	-	--	-	--	-	--	-	--	-	--	-
....COELASTRACEAE												
....COELASTRUM	--	-	--	-	--	-	--	-	--	-	--	-
....HYDRODICTYACEAE												
....PEDIASTRUM	*	0	--	-	--	-	--	-	--	-	--	-
....MICRACTINIACEAE												
....GOLENKINIA	*	0	37	1	--	-	--	-	--	-	--	-
....MICRACTINIUM	280	12	--	-	--	-	--	-	--	-	400	6
....OOCYSTACEAE												
....ANKISTRODESMUS	100	4	110	4	21	3	10	1	49	5	830	12
....CHODATELLA	--	-	--	-	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-	33	3	400	6
....KIRCHNERIELLA	--	-	--	-	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	51	2	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-	--	-	57	1
....TETRAEDRON	--	-	--	-	--	-	--	-	--	-	--	-
....TREUBARIA	--	-	--	-	--	-	--	-	--	-	--	-
....WESTELLA	--	-	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE												
....ACTINASTRUM	140	6	*	0	--	-	--	-	--	-	--	-
....CRUCIGENIA	--	-	--	-	--	-	--	-	--	-	--	-
....SCENEDESMUS	810#	34	620#	24	86	14	42	3	33	3	130	2
..TETRASPORALES												
...PALMELLACEAE												
...SPHAEROCYSTIS	--	-	--	-	--	-	--	-	--	-	--	-
...VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CARTERIA	--	-	--	-	--	-	--	-	--	-	--	-
....CHLAMYDOMONAS	--	-	29	1	--	-	31	2	--	-	*	0
...PHACOTACEAE												
....PTEROMONAS	--	-	--	-	--	-	--	-	--	-	--	-
...VOLVOCAEAE												
....EUDORINA	--	-	--	-	--	-	--	-	--	-	*	0
...ZYGNEATALES												
....DESMIDIACEAE												
....CLOSTERIUM	--	-	--	-	--	-	--	-	--	-	--	-
....COSMARIUM	--	-	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 to SEPTEMBER 1977

DATE TIME	NOV 24,76 1300		DEC 8,76 1145		JAN 28,77 1400		FEB 24,77 1135		MAR 25,77 1000		APR 22,77 1000	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHRYSTOPHYTA												
..BACILLARIOPHYCEAE												
..CENTRALES												
..COSCINODISCAEAE												
....CYCLOTELLA	56	2	51	2	*	0	--	-	41	4	2000#	29
....MELOSIRA	--	-	--	-	--	-	--	-	--	-	--	-
....STEPHANODISCUS	34	1	--	-	--	-	--	-	--	-	--	-
..PENNALES												
..ACHNANTHACEAE												
....ACHNANTHES	--	-	--	-	--	-	--	-	--	-	--	-
....COCCONEIS	--	-	*	0	--	-	10	1	33	3	*	0
..CYMBELLACEAE												
....CYMBELLA	*	0	--	-	*	0	10	1	16	2	57	1
....EPITHEMIA	*	0	29	1	17	3	94	7	41	4	100	1
..DIATOMACEAE												
....DIATOMA	290	12	15	1	28	4	100	8	98	10	100	1
..EUNOTIACEAE												
....EUNOTIA	--	-	--	-	--	-	--	-	--	-	--	-
..FRAGILARIACEAE												
....ASTERIONELLA	--	-	--	-	*	0	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-	*	0	--	-	*	0
....HANNAEA	--	-	--	-	--	-	--	-	--	-	--	-
....SYNEDRA	290	12	130	5	240#	39	470#	36	210#	23	370	5
..GOMPHONEMACEAE												
....GOMPHONEMA	--	-	*	0	*	0	31	2	73	8	530	8
..MERIDIONACEAE												
....MERIDION	--	-	--	-	--	-	--	-	--	-	*	0
..NAVICULACEAE												
....NAVICULA	68	3	59	2	7	1	130	10	150#	16	200	3
..PINNULARIA	--	-	--	-	--	-	--	-	--	-	--	-
..NITZSCHACEAE												
....CYLINDROTHECA	*	0	--	-	--	-	--	-	--	-	--	-
....NITZSCHIA	140	6	110	4	72	12	130	10	160#	17	170	2
..SURIRELLACEAE												
....CYMATOPLEURA	--	-	--	-	--	-	--	-	--	-	*	0
....SURIRELLA	--	-	--	-	--	-	--	-	--	-	*	0
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
..CHROCOCCOCEAE												
....CHROCOCCOCEAE												
....AGMENELLUM	--	-	--	-	--	-	--	-	--	-	--	-
....ANACYSTIS	*	0	--	-	--	-	240#	18	--	-	--	-
..HORMOGONALES												
..NOSTOCACEAE												
....ANABAENA	100	4	--	-	--	-	--	-	--	-	--	-
..OSCILLATORIACEAE												
....LYNGBYA	--	-	73	3	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	1200#	47	150#	24	--	-	--	-	800	12
....SPIRULINA	--	-	*	0	--	-	--	-	--	-	--	-
..RIVULARIACEAE												
....RAPHIIDIOPSIS	--	-	--	-	--	-	--	-	--	-	670	10
EUGLENOPHYTA (EUGLENOIDS)												
..CRYPTOPHYCEAE												
..CRYPTOMONADALES												
....CRYPTOCHRYSIDACEAE												
....CHROOMONAS	--	-	--	-	--	-	--	-	--	-	--	-
....CRYPTOMONADACEAE												
....CRYPTOMONAS	*	0	--	-	--	-	--	-	--	-	--	-
..EUGLENOPHYCEAE												
..EUGLENALES												
....EUGLENACEAE												
....EUGLENA	--	-	--	-	--	-	--	-	--	-	57	1
....TRACHELOMONAS	*	0	15	1	--	-	10	1	--	-	*	0
PYRRHOPHYTA (FIRE ALGAE)												
..DINOPHYCEAE												
..GYMNODINIALES												
....GYMNODINIACEAE												
....GYMNODINIUM	--	-	*	0	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09247600 YAMPA RIVER BELOW CRAIG, CU--Continued

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 to SEPTEMBER 1977

DATE TIME	MAY 13,77 1030	JUL 8,77 0700	JUL 21,77 1230	AUG 9,77 1235	SEP 8,77 0915
TOTAL CELLS/ML	3100	5600	29000	8700	2000
DIVERSITY: DIVISION	1.1	1.2	0.4	1.2	0.6
..CLASS	1.1	1.2	0.4	1.2	0.6
..ORDER	1.6	1.7	0.5	1.7	1.4
...FAMILY	3.2	2.2	1.8	2.4	2.5
....GENUS	3.6	2.4	2.2	2.5	2.7

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
...CHARACTACEAE										
....SCHROEDERIA	--	-	--	-	--	-	--	-	130	7
....COELASTRACEAE										
....COELASTRUM	--	-	--	-	9000#	31	--	-	65	3
....HYDRODICTYACEAE										
....PEDIASTRUM	--	-	290	5	*	0	--	-	--	-
....MICRACTINIACEAE										
....GOLENKINIA	--	-	*	0	260	1	--	-	32	2
....MICRACTINIUM	--	-	--	-	--	-	230	3	41	2
....OOCYSTACEAE										
....ANKISTRODESMUS	53	2	92	2	2300	8	57	1	41	2
....CHODATELLA	--	-	--	-	--	-	--	-	15	1
....DICTYOSPHAERIUM	--	-	--	-	*	0	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	110	1	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	*	0	--	-	--	-
....TREUBARIA	--	-	--	-	1000	3	--	-	15	1
....WESTELLA	--	-	--	-	--	-	690	8	--	-
....SCENEDESMACEAE										
....ACTINASTRUM	140	5	55	1	680	2	--	-	--	-
....CRUCIGENIA	--	-	--	-	340	1	--	-	--	-
....SCENEDESMUS	180	6	3200#	57	14000#	47	2800#	32	950#	48
....TETRASPORALES										
....PALMELLACEAE										
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-	380#	19
....VOLVOCALES										
....CHLAMYDOMONADACEAE										
....CARTERIA	--	-	*	0	--	-	--	-	--	-
....CHLAMYDOMONAS	*	0	460	8	260	1	110	1	--	-
....PHACOTACEAE										
....PTEROMONAS	18	1	--	-	--	-	--	-	--	-
....VOLVOCAEAE										
....EUDORINA	--	-	--	-	--	-	--	-	--	-
....ZYGNEMALES										
....DESMIDIACEAE										
....CLOSTERIUM	--	-	--	-	--	-	57	1	--	-
....COSMARIUM	--	-	--	-	--	-	57	1	16	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09247600 YAMPA RIVER BELOW CRAIG, CU--Continued

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 to SEPTEMBER 1977

DATE TIME	MAY 13,77 1030		JUL 8,77 0700		JUL 21,77 1230		AUG 9,77 1235		SEP 8,77 0915	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHRYSOPHYTA										
..BACILLARIOPHYCEAE										
..CENTRALES										
..COSCINODISCACEAE										
....CYCLOTELLA	340	11	290	5	940	3	3300#	38	32	2
....MELOSIRA	--	-	73	1	--	-	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-	--	-
..PENNALES										
..ACHNANTHACEAE										
....ACHNANTHES	36	1	--	-	--	-	--	-	--	-
....COCCONEIS	18	1	55	1	--	-	--	-	--	-
..CYMBELLACEAE										
....CYMBELLA	71	2	--	-	--	-	--	-	--	-
....EPISTEMIA	160	5	--	-	--	-	57	1	--	-
..DIATOMACEAE										
....DIATOMA	140	5	55	1	--	-	--	-	49	2
..EUNOTIACEAE										
....EUNOTIA	18	1	--	-	--	-	--	-	--	-
..FRAGILARIACEAE										
....ASTERIOVELLA	--	-	--	-	--	-	--	-	--	-
....FRAGILARIA	450	14	--	-	--	-	--	-	--	-
....HANNAEA	36	1	--	-	--	-	--	-	--	-
....SYNEORA	180	6	*	0	*	0	520	6	73	4
..GOMPHONEMACEAE										
....GOMPHONEMA	280	9	--	-	--	-	57	1	--	-
..MERIDIONACEAE										
....MERIDION	--	-	--	-	--	-	--	-	--	-
..NAVICULACEAE										
....NAVICULA	450	14	*	0	340	1	230	3	32	2
..PINNULARIA	--	-	--	-	--	-	57	1	24	1
..NITZSCHIACEAE										
....CYLINDROTHECA	--	-	--	-	--	-	--	-	--	-
....NITZSCHIA	71	2	290	5	--	-	--	-	65	3
..SURIPELLACEAE										
....CYMATOPLEURA	--	-	--	-	--	-	--	-	--	-
....SURIPELLA	18	1	*	0	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
..CHROCOCCALES										
..CHROCOCCACEAE										
....AGMENELLUM	--	-	150	3	--	-	--	-	--	-
....ANACYSTIS	--	-	440	8	--	-	57	1	--	-
..HORMOGONALES										
..NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	--	-	--	-
..OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	--	-	--	-	--	-
..OSCILLATORIA	460	15	--	-	--	-	--	-	--	-
..SPIRULINA	--	-	--	-	--	-	--	-	--	-
..RIVULARIACEAE										
....RAPHIIDIOPSIS	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
..CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
..CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	73	1	--	-	--	-	*	0
..CRYPTOMONADACEAE										
....CRYPTOMONAS	--	-	--	-	--	-	--	-	--	-
..EUGLENOPHYCEAE										
..EUGLENALES										
..EUGLENACEAE										
....EUGLENA	*	0	--	-	--	-	--	-	--	-
....TRACHELOMONAS	*	0	--	-	340	1	230	3	--	-
PYRRHOPHYTA (FIRE ALGAE)										
..DINOPHYCEAE										
..GYMNODINIALES										
..GYMNODINIACEAE										
....GYMNODINIUM	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09249200 SOUTH FORK OF WILLIAMS FORK NEAR PAGODA, CO

LOCATION.--Lat 40°12'44", long 107°26'32", in NE¼SE¼ sec.24, T.3 N., R.90 W., Rio Blanco County, Hydrologic Unit 14050001, on left bank at downstream side of private bridge, 1.3 mi (2.1 km) upstream from Pine Creek, and 11 mi (18 km) south of Pagoda.

DRAINAGE AREA.--46.7 mi² (121.0 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 7,235 ft (2,205 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Diversions above station for irrigation of about 100 acres (405,000 m²) above and 50 acres (202,000 m²) below station.

AVERAGE DISCHARGE.--12 years, 40.8 ft³/s (1.155 m³/s), 29,560 acre-ft/yr (36.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 910 ft³/s (25.8 m³/s) May 9, 1974, gage height, 3.97 ft (1.210 m), from rating curve extended above 420 ft³/s (12 m³/s); no flow July 31, Aug. 31, Sept. 1, 7, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 148 ft³/s (4.19 m³/s) May 8, gage height, 2.02 ft (0.616 m), no peak above base of 400 ft³/s (11 m³/s); no flow July 31, Aug. 31, Sept. 1, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	5.6	3.7	5.0	5.0	5.0	5.2	34	43	.40	1.0	.00
2	3.4	5.4	4.0	5.0	5.0	5.0	5.2	40	41	.40	.93	.10
3	4.8	5.4	4.1	5.0	5.0	5.0	5.2	45	39	.40	.87	.34
4	5.7	4.8	4.2	5.0	5.0	5.0	5.2	50	34	.40	.82	.68
5	5.0	4.9	4.2	5.0	5.0	5.0	5.2	54	31	.40	3.6	.10
6	4.5	4.9	4.2	5.0	5.0	5.0	5.2	82	29	.40	6.3	.05
7	4.3	5.0	4.2	5.0	5.0	5.0	5.2	86	25	.40	3.6	.00
8	4.1	5.0	4.2	5.0	5.0	5.0	5.2	113	23	.40	2.0	.20
9	4.3	4.9	4.2	5.0	5.0	5.0	5.2	102	27	.40	1.9	.30
10	4.2	4.7	4.2	5.0	5.0	5.0	5.2	84	20	.40	1.3	.30
11	4.2	5.0	4.2	5.0	5.0	5.0	5.2	62	14	.40	1.1	.28
12	4.2	6.2	4.4	5.0	5.0	5.0	5.2	68	11	.40	.87	.21
13	4.1	5.1	4.6	5.0	5.0	5.0	5.2	69	8.2	.40	.94	.34
14	4.1	4.1	4.9	5.0	5.0	5.2	5.2	70	6.6	2.9	.82	.10
15	4.1	5.2	5.0	5.0	5.0	5.2	5.2	57	4.8	2.8	.80	.36
16	4.1	3.2	5.2	5.0	5.0	5.2	5.2	71	3.0	1.8	2.1	1.8
17	4.1	7.4	5.4	5.0	5.0	5.2	5.2	69	2.2	1.2	2.0	1.4
18	4.1	3.9	5.2	5.0	5.0	5.2	5.2	64	1.8	1.1	4.6	1.0
19	4.0	4.2	5.4	5.0	5.0	5.2	5.2	56	1.3	.92	4.1	.96
20	4.3	5.1	5.4	5.0	5.0	5.2	5.2	47	1.0	2.5	3.9	.89
21	5.1	5.1	5.4	5.0	5.0	5.2	5.6	37	.80	7.0	3.0	.96
22	5.2	4.6	5.4	5.0	5.0	5.2	6.0	38	.70	6.9	2.1	1.3
23	5.0	2.6	5.4	5.0	5.0	5.2	6.4	47	.60	6.0	1.8	2.3
24	4.8	2.8	5.4	5.0	5.0	5.2	6.6	50	.50	6.1	1.0	2.5
25	4.7	3.0	5.4	5.0	5.0	5.2	7.0	48	.40	10	4.8	2.3
26	5.1	2.5	5.2	5.0	5.0	5.2	8.0	43	.40	5.6	3.0	2.0
27	5.0	3.0	5.2	5.0	5.0	5.2	10	39	.40	3.7	5.4	1.6
28	5.3	3.2	5.2	5.0	5.0	5.2	14	39	.40	3.2	6.2	1.4
29	5.9	3.3	5.2	5.0	---	5.2	21	37	.40	2.4	2.5	1.1
30	6.0	3.5	5.2	5.0	---	5.2	27	40	.40	1.7	.36	1.3
31	5.7	---	5.2	5.0	---	5.2	---	45	---	1.2	.00	---
TOTAL	142.8	133.6	149.1	155.0	140.0	158.6	215.6	1786	370.90	72.22	73.71	28.06
MEAN	4.61	4.45	4.81	5.00	5.00	5.12	7.19	57.6	12.4	2.33	2.38	.94
MAX	6.0	7.4	5.4	5.0	5.0	5.2	27	113	43	10	6.3	2.5
MIN	3.4	2.5	3.7	5.0	5.0	5.0	5.2	34	.40	.40	.00	.00
AC-FT	283	265	296	307	278	315	428	3540	736	143	146	56

CAL YR 1976 TOTAL 12160.60 MEAN 33.2 MAX 369 MIN 2.2 AC-FT 24120
WTR YR 1977 TOTAL 3425.59 MEAN 9.39 MAX 113 MIN .00 AC-FT 6790

NOTE.--NO GAGE-HEIGHT RECORD NOV. 28 TO MAY 5.

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, at Coal Mine Road crossing about 1,500 ft (457 m) upstream from confluence with Yampa River and about 8 mi (12.9 km) south-southwest of Craig.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)
OCT 04...	1100	44	440	7.9	10.0	9.1	210	42	45	23
NOV 24...	1120	49	580	8.4	2.5	11.0	300	80	50	36
DEC 08...	1000	34	500	8.1	.5	11.2	240	54	51	27
JAN 28...	1210	29	510	8.0	.0	9.9	250	31	57	27
FEB 24...	1400	42	390	7.6	.5	11.3	220	46	48	24
MAR 25...	1215	66	370	8.2	1.0	10.8	180	47	40	20
APR 22...	1245	135	340	8.3	12.0	9.8	170	29	41	16
MAY 13...	1220	190	220	8.3	14.5	8.8	110	20	28	9.8
JUL 08...	0800	--	700	8.1	16.0	--	320	--	51	46
21...	1400	5.8	860	8.1	26.0	6.7	340	72	50	53
AUG 09...	1045	10	460	7.9	15.0	7.2	--	--	--	--

DATE	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)
OCT 04...	18	.5	1.8	201	0	165	75	3.6	.3	11
NOV 24...	26	.7	1.9	266	0	218	150	5.5	.2	10
DEC 08...	20	.6	2.0	225	0	185	84	4.3	.1	12
JAN 28...	26	.7	1.7	271	0	222	92	3.9	.2	15
FEB 24...	22	.6	1.6	211	0	173	91	3.9	.1	13
MAR 25...	16	.5	2.3	165	0	140	79	3.9	.1	9.7
APR 22...	14	.5	1.8	170	0	140	52	3.0	.1	10
MAY 13...	7.5	.3	1.7	110	0	90	26	2.7	.1	9.5
JUL 08...	37	.9	3.8	--	0	240	58	8.4	.2	2.5
21...	78	1.8	5.1	330	0	270	220	16	.3	.5
AUG 09...	--	--	4.4	270	0	220	500	6.6	.2	7.0

09249750 WILLIAMS FORK AT MOUTH, NEAR HAMILTON, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)
OCT 04...	277	33.1	.02	.01	.28	.03	50	--	80	--
NOV 24...	421	56.0	.13	.00	.18	.04	50	--	40	190
DEC 08...	312	29.1	.13	.18	.83	.01	40	240	50	120
JAN 28...	357	28.0	.25	.00	.18	.02	30	--	70	320
FEB 24...	308	35.3	.11	.01	.20	.02	30	--	150	--
MAR 25...	252	45.1	.12	.07	.70	.09	30	2200	160	1100
APR 22...	222	30.9	.00	.00	.39	.01	30	--	500	790
MAY 13...	140	71.8	.09	.08	.70	.11	50	--	220	340
JUL 08...	--	--	.01	.05	.64	.01	90	--	40	91
21...	586	9.18	.05	.04	.87	.02	130	--	90	210
AUG 09...	--	--	.01	.01	.64	.03	70	--	20	350

DATE	TIME	TOTAL ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (L) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)
DEC 08...	1000	110	20	1	1	0	0	<10	1	0	0
MAR 25...	1215	940	20	2	1	0	0	<10	2	0	0

DATE	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS- SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYB- DENUM (MO) (UG/L)
DEC 08...	<10	5	<100	3	10	20	20	20	.0	.0	1
MAR 25...	<10	9	<100	3	20	20	90	40	.0	.0	1

DATE	DIS- SOLVED MOLYB- DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED VANAD- IUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)
DEC 08...	1	50	1	1	1	.7	10	30	2.4	4.9
MAR 25...	1	<50	7	1	1	.1	20	10	3.3	11

GREEN RIVER BASIN

09249750 WILLIAMS FORK AT MOUTH, NEAR HAMILTON, CO--Continued

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 to SEPTEMBER 1977

DATE TIME	NOV 24,76 1120		DEC 8,76 1000		JAN 28,77 1210		MAR 25,77 1215		APR 22,77 1245	
TOTAL CELLS/ML	190		120		320		1100		790	
DIVERSITY: DIVISION	0.8		0.1		1.2		1.1		0.1	
..CLASS	0.8		0.1		1.2		1.1		0.1	
...ORDER	0.8		0.3		1.7		1.1		0.1	
...FAMILY	2.5		1.7		3.2		2.2		2.6	
....GENUS	2.5		1.8		3.4		2.2		2.7	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	--	-	--	-	--	-	--	-	--	-
....HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	--	-	--	-	--	-
....OOCYSTACEAE										
....ANKISTRODESMUS	--	-	2	2	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-	--	-
....FRANCEIA	--	-	--	-	--	-	--	-	--	-
....TREUBARIA	--	-	--	-	--	-	--	-	--	-
....SCENEDESMACEAE										
....ACTINASTRUM	--	-	--	-	12	4	--	-	--	-
....CRUCIGENIA	13	7	--	-	--	-	--	-	--	-
....SCENEDESMUS	--	-	--	-	--	-	--	-	--	-
...TETRASPORALES										
...PALMELLACEAE										
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CARTERIA	--	-	--	-	--	-	--	-	--	-
....CHLAMYDOMONAS	--	-	--	-	48	15	--	-	--	-
...ZYGNEMATALES										
...DESMIDIACEAE										
....COSMARIUM	--	-	--	-	--	-	--	-	--	-
CHRYSTOPHYTA										
..BACILLARIOPHYCEAE										
...CENTRALES										
...COSCINODISCAEAE										
....CYCLOTELLA	--	-	4	3	8	2	--	-	--	-
....MELOSIRA	--	-	--	-	28	9	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	--	-	--	-	22	2	17	2
....COCCONEIS	7	4	--	-	8	2	--	-	34	4
...CYMBELLACEAE										
....CYMBELLA	--	-	2	2	--	-	--	-	42	5
....EPITHEMIA	16	9	2	2	24	7	--	-	8	1
....RHOPALODIA	--	-	*	0	--	-	--	-	8	1
...DIATOMACEAE										
....DIATOMA	--	-	2	2	12	4	11	1	8	1
...FRAGILARIACEAE										
....SYNEDRA	20	11	28#	23	48	15	90	8	100	13
...GOMPHONEMATAEAE										
....GOMPHONEMA	3	2	2	2	16	5	22	2	25	3
...NAVICULACEAE										
....AMPHIPLEURA	--	-	2	2	--	-	--	-	--	-
....NAVICULA	39#	21	4	3	44	14	34	3	150#	19
....NEIDIUM	--	-	*	0	--	-	--	-	--	-
....PINNULARIA	--	-	--	-	--	-	--	-	--	-
....STAURONEIS	--	-	--	-	8	2	--	-	--	-
...NITZSCHACEAE										
....NITZSCHIA	68#	37	75#	62	28	9	290#	26	300#	38
...SURIARELLACEAE										
....SURIARELLA	--	-	--	-	--	-	11	1	76	10
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROCOCCOCCALES										
...CHROCOCCOCCAEAE										
....ANACYSTIS	20	11	--	-	--	-	--	-	--	-
...HORMOGONALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	110	10	--	-
...OSCILLATORIACEAE	--	-	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	--	-	520#	46	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09249750 WILLIAMS FORK AT MOUTH, NEAR HAMILTON, CO--Continued

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 to SEPTEMBER 1977

DATE TIME	NOV 24,76 1120		DEC 8,76 1000		JAN 28,77 1210		MAR 25,77 1215		APR 22,77 1245	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
EUGLENOPHYTA (EUGLENOIDS)										
..CRYPTOPHYCEAE										
...CRYPTOMONIDALES										
....CRYPTOMONADACEAE										
.....CRYPTOMONAS	--	-	--	-	36	11	--	-	--	-
..EUGLENOPHYCEAE										
...EUGLENALES										
....EUGLENACEAE										
.....EUGLENA	--	-	--	-	--	-	--	-	17	2
....TRACHELOMONAS	--	-	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)										
..DINOPHYCEAE										
...GYMNODINIALES										
....GYMNODINIACEAE										
.....GYMNODINIUM	--	-	--	-	--	-	11	1	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09249750 WILLIAMS FORK AT MOUTH, NEAR HAMILTON, CO--Continued

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 to SEPTEMBER 1977

DATE TIME	MAY 13,77 1220	JUL 8,77 0800	JUL 21,77 1400	AUG 9,77 1045	SEP 8,77 1030					
TOTAL CELLS/ML	340	91	210	350	2200					
DIVERSITY: DIVISION	0.9	0.7	0.6	1.1	1.7					
..CLASS	0.9	0.7	0.6	1.1	1.7					
...ORDER	0.9	1.5	1.1	1.8	2.2					
...FAMILY	1.5	1.8	1.3	2.9	3.0					
....GENUS	0.0	2.3	1.5	3.2	3.0					
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
....CHARACIACEAE										
....SCHROEDERIA	--	-	--	-	6	3	--	-	18	1
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	--	-	120#	33	690#	31
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	6	6	150#	71	24	7	36	2
....DICTYOSPHAERIUM	--	-	--	-	--	-	29	8	--	-
....FRANCEIA	--	-	--	-	--	-	5	1	--	-
....TREUBARIA	--	-	--	-	12	6	--	-	--	-
...SCENEDESMACEAE										
....ACTINASTRUM	--	-	--	-	--	-	--	-	--	-
....CRUCIGENIA	--	-	23#	26	--	-	--	-	--	-
....SCENEDESMUS	--	-	23#	26	--	-	39	11	270	9
...TETRASPORALES										
...PALMELLACEAE										
...SPHAEROCYSTIS	--	-	--	-	--	-	--	-	91	4
...VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CARTERIA	--	-	--	-	--	-	14	4	--	-
....CHLAMYDOMONAS	--	-	3	3	6	3	5	1	--	-
...ZYGNEATALES										
...DESMIDIACEAE										
...COSMARIUM	--	-	18#	19	12	6	5	1	18	1
CHRYSOPHYTA										
..BACILLARIOPHYCEAE										
...CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	--	-	--	-	--	-	34	10	--	-
....MELOSIRA	--	-	18#	19	--	-	--	-	360#	16
...PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	--	-	--	-	--	-	--	-
....COCCONEIS	*	0	--	-	--	-	5	1	18	1
...CYMBELLACEAE										
....CYMBELLA	14	4	--	-	--	-	5	1	--	-
....EPITHEMIA	*	0	--	-	--	-	--	-	--	-
....RHOPALODIA	--	-	--	-	--	-	--	-	18	1
...DIATOMACEAE										
....DIATOMA	*	0	--	-	--	-	--	-	--	-
....FRAGILARIACEAE										
....SYNEDRA	*	0	--	-	--	-	--	-	--	-
...GOMPHONEMATAACEAE										
....GOMPHONEMA	*	0	--	-	--	-	--	-	36	2
...NAVICULACEAE										
....AMPHIPLEURA	--	-	--	-	--	-	--	-	--	-
....NAVICULA	69#	20	--	-	6	3	29	8	150	7
....NEIDIUM	--	-	--	-	--	-	--	-	--	-
....PINNULARIA	14	4	--	-	--	-	--	-	--	-
....STAURONEIS	--	-	--	-	--	-	--	-	--	-
...NITZSCHACEAE										
....NITZSCHIA	14	4	--	-	--	-	24	7	--	-
...SURIARELLACEAE										
....SURIARELLA	14	4	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROCOCCALES										
...CHROCOCCACEAE										
....ANACYSTIS	--	-	--	-	--	-	--	-	--	-
...HORMOGONALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	--	-	340#	15
...OSCILLATORIACEAE	220#	64	--	-	--	-	--	-	--	-
...OSCILLATORIA	--	-	--	-	--	-	--	-	160	7

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09249750 WILLIAMS FORK AT MOUTH, NEAR HAMILTON, CO--Continued

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 to SEPTEMBER 1977

DATE TIME	MAY 13,77 1220		JUL 8,77 0800		JUL 21,77 1400		AUG 9,77 1045		SEP 8,77 1030	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
EUGLENOPHYTA (EUGLENOIDS)										
..CRYPTOPHYCEAE										
...CRYPTOMONIDALES										
....CRYPTOMONODACEAE										
....CRYPTOMONAS	--	-	--	-	--	-	--	-	--	-
..EUGLENACEAE										
...EUGLENALES										
....EUGLENACEAE										
....EUGLENA	--	-	--	-	6	3	--	-	36	2
....TRACHELOMONAS	--	-	--	-	12	6	19	5	54	2
PYRRHOPHYTA (FIRE ALGAE)										
..DINOPHYCEAE										
...GYMNODINIALES										
....GYMNODINIACEAE										
....GYMNODINIUM	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

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 14050003, on right bank 2.2 mi (3.5 km) southwest of Thornburgh and 3.0 mi (4.8 km) upstream from Little Creek.

DRAINAGE AREA.--65 mi² (168 km²), approximately.

PERIOD OF RECORD.--October 1952 to current year. Published as "near Thornburgh" October 1952 to September 1968.

GAGE.--Water-stage recorder. Datum of gage is 6,599.32 ft (2,011.473 m) above mean sea level (levels by U.S. Bureau of Reclamation).

REMARKS.--Records fair except those for winter period, which are poor. Diversion for irrigation of about 1,321 acres (535 km²) above station.

AVERAGE DISCHARGE.--25 years, 23.8 ft³/s (0.6740 m³/s), 17,240 acre-ft/yr (21.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,050 ft³/s (29.7 m³/s) May 10, 1974, gage height, 5.03 ft (1.533 m), from rating curve extended above 340 ft³/s (9.6 m³/s); maximum gage height, 5.52 ft (1.682 m) June 1, 1957; minimum daily discharge, 0.20 ft³/s (0.006 m³/s) for several days in 1956, 1963, and 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 52 ft³/s (1.47 m³/s) May 1, gage height, 2.66 ft (0.811 m), no peak above base of 250 ft³/s (7.1 m³/s); minimum daily, 0.21 ft³/s (0.006 m³/s) Sept. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.9	1.6	1.4	2.0	2.9	4.6	41	9.9	.95	.29	.29
2	1.7	2.7	1.8	1.3	2.0	2.8	4.5	32	9.5	.87	.28	.27
3	2.3	2.6	1.8	1.2	2.0	2.7	4.2	32	9.4	.79	.27	.26
4	1.8	2.5	1.8	1.0	2.0	2.7	4.0	26	8.7	.75	.27	.25
5	2.7	2.4	2.0	1.2	2.0	2.8	4.5	20	8.0	.80	.31	.25
6	2.7	2.3	2.0	1.2	2.0	3.0	5.7	14	7.4	.73	.30	.23
7	2.4	2.2	2.0	1.4	2.0	3.2	7.6	17	6.7	.65	.27	.22
8	2.5	2.1	2.0	1.2	1.8	3.4	8.7	17	6.4	.61	.26	.21
9	2.6	2.0	2.0	.80	1.6	3.8	9.1	16	6.2	.54	.25	.21
10	2.3	1.9	2.0	1.0	1.6	3.4	9.5	16	6.0	.51	.26	.22
11	2.1	1.8	2.0	1.2	1.8	3.0	14	13	5.5	.47	.25	.22
12	2.7	1.7	2.0	1.6	2.0	2.8	14	13	5.0	.45	.25	.23
13	2.9	1.6	2.0	1.8	2.1	3.0	11	11	4.1	.41	.24	.24
14	2.3	1.5	2.0	2.0	2.2	3.1	9.2	13	3.2	.39	.24	.24
15	2.3	1.5	2.0	2.0	2.4	3.3	9.7	15	1.9	.35	.24	.24
16	2.2	1.4	2.0	2.0	2.6	3.2	9.3	17	1.7	.33	.25	.25
17	2.1	1.4	2.0	2.0	2.7	3.1	6.5	17	1.8	.32	.26	.25
18	2.1	1.6	2.0	2.0	2.9	3.1	11	16	2.2	.29	.28	.25
19	2.2	1.8	2.0	2.0	3.1	3.0	17	14	1.9	.30	.27	.25
20	2.4	1.9	2.0	2.0	3.2	3.0	11	13	1.7	.32	.26	.25
21	2.6	2.0	1.8	2.0	3.1	3.1	8.7	13	1.5	.35	.26	.23
22	2.4	2.0	1.8	2.0	3.0	6.4	10	12	1.3	.41	.26	.27
23	2.6	1.8	1.6	2.0	3.0	8.2	15	11	1.3	.52	.25	.28
24	3.1	1.8	1.6	2.0	3.0	9.6	20	11	1.3	.48	.23	.27
25	3.2	1.7	1.5	2.0	3.0	7.6	26	11	1.2	.39	.27	.27
26	3.6	1.4	1.5	2.0	3.0	7.1	31	11	1.2	.59	.23	.27
27	3.3	1.0	1.5	2.0	3.0	5.1	29	11	1.0	.70	.39	.27
28	2.6	1.2	1.5	2.0	3.0	5.7	35	12	1.2	.54	.28	.29
29	2.3	1.4	1.5	2.0	---	7.0	41	12	1.1	.44	.36	.29
30	2.1	1.6	1.5	2.0	---	5.2	39	11	.99	.38	.48	.30
31	2.1	---	1.5	2.0	---	4.4	---	10	---	.30	.37	---
TOTAL	75.9	55.7	56.3	52.30	68.1	130.7	429.8	498	119.29	15.93	8.68	7.59
MEAN	2.45	1.86	1.82	1.69	2.43	4.22	14.3	16.1	3.98	.51	.28	.25
MAX	3.6	2.9	2.0	2.0	3.2	9.6	41	41	9.9	.95	.48	.30
MIN	1.7	1.0	1.5	.80	1.6	2.7	4.0	10	.99	.29	.23	.21
AC-FT	151	110	112	104	135	259	853	988	237	32	17	15
CAL YR 1976	TOTAL	7053.67	MEAN	19.3	MAX	200	MIN	.76	AC-FT	13990		
WTR YR 1977	TOTAL	1518.29	MEAN	4.16	MAX	41	MIN	.21	AC-FT	3010		

LOCATION.--Lat 40°17'24", long 107°47'21", in SW¼NE¼ sec.26, T.4 N., R.93 W., Moffatt County, Hydrologic Unit 14050001, on right bank 100 ft (30 m) downstream from crossing of State Highways 13 and 789 and 0.5 mi (0.8 km) north of Axial.

WATER-DISCHARGE RECORDS

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 58 ft³/s (1.64 m³/s) July 21, gage height, 4.07 ft (1.241 m); no flow Jan. 19-29.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	.64	.40	.20	.15	.20	.56	.36	.56	.13	.07	.06
2	.18	.47	.41	.21	.16	.20	.56	.43	.53	.11	.06	.02
3	.30	.50	.42	.21	.16	.20	.56	.38	.53	.15	.09	.02
4	.28	.50	.42	.22	.16	.20	.59	.28	.59	.13	.09	.06
5	.26	.56	.42	.22	.16	.20	.70	.45	.50	.18	.18	.04
6	.26	.59	.42	.23	.17	.21	.73	.59	.56	.16	.13	.04
7	.26	.53	.42	.23	.17	.24	.76	.36	.70	.15	.11	.04
8	.26	.59	.42	.23	.17	.28	.87	.59	.47	.09	.06	.02
9	.26	.59	.42	.23	.18	.30	.87	.59	.61	.07	.11	.06
10	.26	.59	.24	.23	.18	.33	.90	.70	.61	.07	.09	.07
11	.26	.53	.13	.22	.18	.26	.73	1.0	.56	.07	.11	.09
12	.26	.59	.06	.21	.19	.36	.36	.55	.36	.07	.10	.09
13	.28	.53	.07	.20	.20	.47	.26	.56	.30	.07	.09	.09
14	.28	.53	.09	.17	.20	.38	.20	.53	.22	.07	.07	.06
15	.28	.61	.11	.15	.20	.38	.26	.53	.20	.07	.07	.06
16	.28	.59	.13	.12	.20	.38	.36	.70	.30	.09	.07	.06
17	.28	.59	.15	.06	.20	.32	.28	.79	.30	.07	.07	.02
18	.24	.59	.17	.02	.20	.09	.24	.56	.26	.07	.06	.02
19	.26	.61	.19	.00	.20	.09	.24	.47	.24	.07	.04	.02
20	.28	.59	.20	.00	.20	.06	.24	.47	.20	.07	.04	.02
21	.30	.50	.20	.00	.20	.11	.20	.47	.16	3.3	.02	.02
22	.28	.59	.20	.00	.20	.20	.24	.45	.18	.13	.01	.02
23	.32	.64	.20	.00	.20	.40	.24	.40	.20	.09	.01	.06
24	.30	.67	.20	.00	.20	.67	.24	.40	.18	.13	.01	.04
25	.34	.73	.20	.00	.20	.67	.24	.40	.20	.09	.67	.02
26	.38	.64	.20	.00	.20	.63	.22	.45	.28	.06	.11	.01
27	.38	.30	.20	.00	.20	.61	.22	.43	.24	.06	1.8	.01
28	.34	.32	.20	.00	.20	.64	.24	.50	.24	.06	.18	.01
29	.40	.34	.20	.00	---	.50	.24	.50	.20	.06	.13	.01
30	.43	.40	.20	.10	---	.53	.32	.50	.15	.06	.09	.02
31	.43	---	.20	.14	---	.53	---	.53	---	.06	.07	---
TOTAL	9.08	16.45	7.49	3.60	5.23	10.64	12.67	15.92	10.63	6.06	4.81	1.18
MEAN	.29	.55	.24	.12	.19	.34	.42	.51	.35	.20	.16	.039
MAX	.43	.73	.42	.23	.20	.67	.90	1.0	.70	3.3	1.8	.09
MIN	.16	.30	.06	.00	.15	.06	.20	.28	.15	.06	.01	.01
AC-FT	18	33	15	7.1	10	21	25	32	21	12	9.5	2.3
CAL YR 1976	TOTAL 504.25		MEAN 1.38	MAX 5.4	MIN .06	AC-FT 1000						
WTR YR 1977	TOTAL 103.76		MEAN .28	MAX 3.3	MIN .00	AC-FT 206						

GREEN RIVER BASIN

09250400 GOOD SPRING CREEK AT AXIAL, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1974 to March 1977 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to March 1977 (discontinued).

WATER TEMPERATURES: October 1975 to March 1977 (discontinued).

INSTRUMENTATION.--water-quality monitor since October 1975 (discontinued).

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 2,150 micromhos Nov. 11, 1975; minimum, 745 micromhos Feb. 10, 1976.

WATER TEMPERATURES: Maximum, 25.0°C July 20, 30, 1976; minimum, freezing point on many days during winter months each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Not determined.

WATER TEMPERATURES: Not determined.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)
OCT 15...	1400	.28	1600	8.1	10.0	8.7	850	470	110	140
NOV 05...	1545	.53	1500	8.1	9.0	8.5	850	460	110	140
DEC 09...	1300	.42	1550	8.1	.5	9.8	880	430	120	140
JAN 06...	1350	.23	1550	8.2	.5	9.0	880	370	120	140
FEB 07...	1230	.17	1550	8.1	.5	8.3	900	390	130	140
MAR 10...	1440	.40	1200	8.1	.5	11.4	770	320	110	120
APR 07...	1015	.66	1350	8.2	4.0	8.5	770	380	110	120
MAY 05...	1030	.47	1750	8.2	6.0	8.7	940	500	130	150
JUN 08...	0900	.49	1600	8.1	14.0	8.2	920	480	120	150
JUL 08...	1115	.11	1580	8.2	17.0	8.8	870	460	100	150
AUG 18...	1000	.07	1770	8.2	17.0	7.6	790	350	100	130
SEP 19...	1330	.04	1820	8.2	14.5	8.6	910	440	100	160

09250400 GOOD SPRING CREEK AT AXIAL, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LIVITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)
OCT 15...	69	1.0	12	461	0	373	540	19	.5	11
NOV 05...	68	1.0	12	472	0	387	520	17	.3	10
DEC 09...	65	1.0	12	541	0	444	480	16	.5	12
JAN 06...	77	1.1	11	619	0	508	510	19	.5	15
FEB 07...	75	1.1	11	628	0	515	550	22	.6	14
MAR 10...	73	1.1	10	545	0	447	490	18	.6	9.7
APR 07...	58	.9	9.7	470	0	390	470	14	.6	10
MAY 05...	73	1.0	12	540	0	440	580	16	.6	11
JUN 08...	71	1.0	12	530	0	430	550	17	.7	14
JUL 08...	82	1.2	12	500	0	410	550	29	.6	14
AUG 18...	100	1.6	14	530	0	430	580	16	.6	13
SEP 19...	100	1.4	13	570	0	470	630	17	.6	12

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MANG- ANESE (MN) (UG/L)	SUS- PENDED SEDIM- ENT DIS- CHARGE (T/DAY)
OCT 15...	1130	1.54	.85	.02	.00	230	20	40	.02
NOV 05...	1110	1.51	1.59	.04	.00	230	30	50	--
DEC 09...	1110	1.51	1.26	.34	.00	200	50	110	--
JAN 06...	1200	1.63	.75	.25	.02	210	50	120	.04
FEB 07...	1250	1.70	.57	.25	.02	210	20	140	.02
MAR 10...	1100	1.50	1.19	.18	.03	190	30	130	.17
APR 07...	1030	1.40	1.84	.08	.04	190	30	150	.21
MAY 05...	1240	1.69	1.57	.15	.04	240	20	100	--
JUN 08...	1210	1.65	1.60	.17	.00	260	40	80	--
JUL 08...	1190	1.62	.35	.06	.01	290	80	20	.03
AUG 18...	1220	1.66	.23	.03	.01	360	20	30	--
SEP 19...	1310	1.73	.14	.02	.01	340	50	20	--

GREEN RIVER BASIN

09250400 GOOD SPRING CREEK AT AXIAL, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS-SOLVED ANTI-MONY (SB) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
DEC 09...	1300	1	2	0	1	3	.0
APR 07...	1015	0	0	1	4	2	.0

DATE	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED VANADIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED ORGANIC CARBON (C) (MG/L)
DEC 09...	2	1	1.0	0	--	9.0
APR 07...	2	2	.8	10	7.5	7.2

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			---		---	---		---	1840	1560	1680	---
2			---		---	---		---	1840	1560	1680	1850
3			---		---	---		---	1820	1570	1680	1850
4			---		---	---		---	1820	1570	1670	1840
5			---		---	---		---	1800	1570	1670	1840
6			---		---	---		1590	1760	1570	1670	1830
7			---		---	1340		---	1730	1580	1670	1830
8			---		1510	1290		---	1760	1580	1660	1820
9			1360		1510	1240		---	1780	1590	1660	1820
10			1380		1510	1260		---	1740	1600	1660	1820
11			1400		---	---		---	1710	1610	1650	1810
12			1410		---	---		---	1690	---	1650	1810
13			1460		---	---		---	1670	---	1650	1810
14			1480		---	---		---	1660	---	1650	1810
15			1480		---	---		---	1650	---	1650	1800
16			1480		---	---		---	1640	---	1650	1800
17			1500		---	---		---	1630	---	1650	1810
18			1500		---	---		---	1630	---	1650	1820
19			1500		---	---		---	1620	---	1650	1820
20			1520		---	---		---	1620	---	1650	1820
21			1550		---	---		---	1610	---	1650	1830
22			1540		---	---		---	1610	---	1650	1830
23			---		---	---		---	1600	---	1650	1830
24			---		---	---		---	1600	---	1650	1840
25			---		---	---		---	1590	1700	1630	1840
26			---		---	---		---	1590	1700	1610	1840
27			---		---	---		1920	1580	1690	---	1850
28			---		---	---		1910	1580	1690	---	1850
29			---		---	---		1870	1570	1690	---	1850
30			---		---	---		1850	1570	1690	---	1860
31			---		---	---		1850	---	1680	---	---

09250400 GOOD SPRING CREEK AT AXIAL, CO--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1									---	---	23.0	12.5
2									---	---	23.5	10.5
3									---	---	19.0	12.0
4									---	---	23.5	11.0
5									---	---	22.5	11.0
6									---	---	22.5	10.5
7									---	---	24.0	12.0
8									---	---	22.0	12.5
9									---	---	21.5	8.5
10									---	---	20.0	9.5
11									---	---	16.0	13.0
12									---	---	18.5	11.0
13									---	---	20.5	7.5
14									---	---	20.0	8.0
15									---	---	19.0	10.5
16									---	---	19.0	9.0
17									---	---	17.5	8.5
18									---	---	18.0	5.0
19									---	---	16.0	7.5
20									---	---	19.5	7.5
21									---	---	17.5	9.5
22									---	---	16.0	7.5
23									---	---	15.0	7.0
24									---	---	15.0	4.5
25									---	---	17.5	6.0
26									20.0	11.0	17.5	8.0
27									18.5	8.5	18.0	6.5
28									20.5	10.0	18.5	9.0
29									22.5	9.0	17.5	9.5
30									21.0	10.5	10.0	6.5
31									22.5	10.0	---	---

GREEN RIVER BASIN

09250510 TAYLOR CREEK AT MOUTH, NEAR AXIAL, CO

LOCATION.--Lat 40°18'48", long 107°45'57", in NW¼SW¼ sec.14, T.4 N., R.93 W., Moffatt County, Hydrologic Unit 14050002, on right bank 500 ft upstream from confluence with Wilson Creek, about 1,000 ft (300 m) southwest of Gossard ranch house, and 2 mi (3.2 km) north of Axial.

DRAINAGE AREA.--7.24 mi² (18.70 km²).

WATER-DISCHARGE RECORD

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

GAGE.--Water-stage recorder. Altitude of gage is 6,300 ft (1,920 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. No diversions. Low dam to prevent erosion 50 ft (15 m) upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 7.0 ft³/s (0.20 m³/s) Feb. 9, 1976; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.10 ft³/s (0.003 m³/s) Mar. 26, gage height, 1.68 ft (0.512 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00
2	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.01	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00
4	.01	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00
5	.01	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00
6	.01	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00
7	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.01	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00
9	.01	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00
10	.01	.00	.00	.00	.00	.01	.01	.00	.00	.00	.00	.00
11	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.01	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00
18	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.01	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00
21	.01	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00
22	.01	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00
25	.01	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00
26	.01	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
31	.01	---	.00	.00	---	.01	---	.00	---	.00	.00	---
TOTAL	.27	.00	.00	.00	.01	.20	.06	.00	.00	.00	.00	.00
MEAN	.009	.000	.000	.000	.000	.006	.002	.000	.000	.000	.000	.000
MAX	.02	.00	.00	.00	.01	.03	.01	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.5	.00	.00	.00	.02	.4	.1	.00	.00	.00	.00	.00

CAL YR 1976 TOTAL 11.39 MEAN .031 MAX 3.0 MIN .00 AC-FT 23
WTR YR 1977 TOTAL 0.54 MEAN .001 MAX .03 MIN .00 AC-FT 1.1

NOTE.--NO GAGE-HEIGHT RECORD FEB. 18 TO MAR. 25.

09250510 TAYLOR CREEK AT MOUTH, NEAR AXIAL, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1976 to current year.

WATER TEMPERATURES: July 1976 to current year.

INSTRUMENTATION.--water-quality monitor since July 1976.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,650 micromhos Oct. 19, 1976; minimum, 371 micromhos Apr. 10, 1977.

WATER TEMPERATURES: Maximum, 32.0°C July 11, 1976; minimum, freezing point many days during winter months each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,650 micromhos Oct. 19; minimum, 371 micromhos Apr. 10.

WATER TEMPERATURES: Maximum, not determined; minimum, freezing point several days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPECIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)
OCT 15...	1030	.01	1300	8.2	3.0	10.5	680	270	92
NOV 05...	1345	.01	1060	8.1	3.0	8.6	570	200	78
MAR 23...	1545	.01	530	8.1	10.0	6.1	240	51	34

DATE	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT 15...	110	74	1.2	9.2	500	0	410	350	39
NOV 05...	90	57	1.0	7.8	445	0	365	300	25
MAR 23...	37	24	.7	7.2	227	0	190	92	12

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTIT- UENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
OCT 15...	.5	12	934	.03	.02	.02	120	30	10
NOV 05...	.3	11	799	.02	.00	.01	100	30	10
MAR 23...	.4	8.0	327	.01	.05	.04	80	60	40

09250510 TAYLOR CREEK AT MOUTH, NEAR AXIAL, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1400					---						
2	1350					---						
3	1350					---						
4	1350					---						
5	1310					---						
6	1340					---						
7	1290					---						
8	1330					---						
9	1320					596						
10	1320					647						
11	1310					---						
12	1300					---						
13	1300					---						
14	1290					---						
15	1300					---						
16	1310					---						
17	1310					---						
18	1330					---						
19	1380					---						
20	1380					1080						
21	1340					906						
22	1310					695						
23	---					583						
24	---					560						
25	1250					530						
26	1260					---						
27	---					---						
28	---					---						
29	1120					---						
30	---					---						
31	1220					---						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	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	---	---								1.0 .0
10	---	---								.5 .0
11	---	---								---
12	---	---								---
13	---	---								---
14	---	---								---
15	---	---								---
16	---	---								---
17	---	---								---
18	---	---								---
19	5.0	1.5								---
20	5.0	1.0								---
21	3.5	.5								2.0 .0
22	3.0	.5								4.5 .0
23	---	---								7.0 .0
24	---	---								6.5 .0
25	3.0	-0.5								5.5 .0
26	5.0	-0.5								7.5 .0
27	---	---								---
28	---	---								---
29	1.5	-0.5								---
30	---	---								---
31	2.5	-0.5								---

GREEN RIVER BASIN

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09250600 WILSON CREEK NEAR AXIAL, CO

LOCATION.--Lat 40°18'56", long 107°47'50", in NW¼SW¼ sec.14, T.4 N., R.93 W., Moffatt County, Hydrologic Unit 14050002, on right bank about 300 ft (91 m) west of Gossard ranch house, 660 ft (200 m) downstream from mouth of Taylor Creek, and 2.4 mi (3.9 km) north of Axial.

DRAINAGE AREA.--20.1 mi² (52.1 km²), revised.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,300 ft (1,920 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33 ft³/s (0.93 m³/s) Feb. 9, 1976, gage height, 3.00 ft (0.914 m); minimum discharge, 0.12 ft³/s (0.003 m³/s) Jan. 4-9, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.1 ft³/s (0.031 m³/s) Apr. 6, gage height, 1.31 ft (0.399 m), no peak above base of 20 ft³/s (0.57 m³/s); minimum daily, 0.12 ft³/s (0.003 m³/s) Jan. 4-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.38	.39	.40	.33	.52	.46	.90	.34	.35	.37	.36	.37
2	.39	.38	.42	.27	.54	.48	.90	.33	.35	.37	.36	.37
3	.40	.38	.42	.20	.58	.51	.90	.33	.35	.37	.36	.36
4	.39	.38	.42	.12	.60	.57	.94	.33	.35	.38	.37	.36
5	.39	.37	.43	.12	.58	.63	.96	.33	.35	.39	.38	.36
6	.40	.37	.45	.12	.60	.65	.97	.34	.35	.39	.39	.37
7	.40	.37	.46	.12	.65	.66	.96	.33	.35	.39	.39	.37
8	.40	.37	.48	.12	.62	.68	.94	.33	.36	.39	.39	.37
9	.39	.37	.48	.12	.63	.69	.92	.36	.35	.38	.39	.37
10	.40	.37	.48	.15	.61	.69	.90	.36	.36	.38	.39	.37
11	.41	.37	.46	.18	.61	.68	.84	.35	.36	.37	.39	.38
12	.41	.38	.45	.21	.61	.68	.79	.35	.35	.37	.39	.38
13	.41	.39	.45	.22	.59	.69	.75	.35	.36	.37	.39	.37
14	.42	.39	.45	.24	.58	.70	.70	.37	.36	.38	.40	.37
15	.42	.40	.45	.26	.55	.68	.66	.38	.35	.38	.38	.37
16	.42	.39	.44	.28	.53	.68	.63	.37	.35	.38	.36	.36
17	.42	.39	.44	.30	.52	.70	.61	.36	.35	.38	.37	.35
18	.42	.39	.44	.32	.50	.70	.57	.36	.35	.37	.37	.35
19	.42	.38	.44	.35	.48	.70	.54	.35	.35	.37	.37	.35
20	.42	.37	.44	.37	.47	.72	.51	.35	.35	.38	.37	.36
21	.42	.38	.44	.39	.45	.72	.47	.35	.37	.39	.37	.38
22	.42	.39	.44	.41	.43	.73	.44	.35	.37	.39	.37	.38
23	.41	.39	.44	.43	.42	.79	.42	.34	.37	.39	.36	.38
24	.41	.39	.44	.45	.40	.81	.39	.35	.36	.37	.36	.37
25	.40	.39	.44	.47	.39	.81	.36	.35	.36	.37	.37	.37
26	.40	.35	.44	.48	.41	.82	.35	.35	.36	.37	.37	.37
27	.40	.30	.45	.49	.40	.87	.35	.35	.36	.37	.39	.37
28	.40	.32	.45	.48	.42	.86	.34	.36	.36	.37	.37	.37
29	.39	.35	.46	.54	---	.86	.34	.37	.37	.37	.36	.37
30	.39	.38	.46	.54	---	.86	.34	.36	.37	.37	.36	.37
31	.39	---	.45	.52	---	.84	---	.35	---	.36	.37	---
TOTAL	12.54	11.24	13.81	9.60	14.69	21.92	19.69	10.85	10.70	11.68	11.62	11.04
MEAN	.40	.37	.45	.31	.52	.71	.66	.35	.36	.38	.37	.37
MAX	.42	.40	.48	.54	.65	.87	.97	.38	.37	.39	.40	.38
MIN	.38	.30	.40	.12	.39	.46	.34	.33	.35	.36	.36	.35
AC-FT	25	22	27	19	29	43	39	22	21	23	23	22
CAL YR 1976	TOTAL 466.92		MEAN 1.28	MAX 6.9	MIN .30	AC-FT 926						
WTR YR 1977	TOTAL 159.38		MEAN .44	MAX .97	MIN .12	AC-FT 316						

GREEN RIVER BASIN

09250600 WILSON CREEK NEAR AXIAL, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to current year.

WATER TEMPERATURE: October 1975 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1975 to current year.

INSTRUMENTATION.--water-quality monitor since October 1975. Pumping sediment sampler since October 1975.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 2,780 micromhos Oct. 7, 1975; minimum, 520 micromhos Feb. 9, 1976.

WATER TEMPERATURES: Maximum, 27.5°C Aug. 12, 1976; minimum, 0.0°C many days during January 1976.

SEDIMENT CONCENTRATIONS: Maximum daily, 18,800 mg/L Mar. 13, 1976; minimum daily, 5 mg/L estimated for several days in January 1977.

SEDIMENT LOADS: Maximum daily, 207 tons (188 t) Feb. 27, 1976; minimum daily, 0.00 ton (0.00 t) several days in January 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 2,040 micromhos on many days during June and July; minimum, not determined.

WATER TEMPERATURES: Maximum, 27.0°C Aug. 9; minimum, not determined.

SEDIMENT CONCENTRATIONS: Maximum daily, 209 mg/L June 12; minimum daily, 5 mg/L, estimated for several days in January.

SEDIMENT LOADS: Maximum daily, 0.44 ton (0.40 t) Apr. 9; minimum daily, 0.00 ton (0.00 t) several days in January.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)
OCT 15...	1200	.42	2100	8.2	6.5	10.5	790	390	120
NOV 05...	1345	.36	1900	8.0	10.0	9.5	810	420	110
DEC 09...	1100	.47	2100	8.2	3.5	9.8	880	440	120
JAN 06...	1245	.12	2050	8.1	.5	10.6	810	370	110
FEB 07...	1530	.63	1990	8.2	2.0	8.7	770	350	110
MAR 10...	1330	.70	1800	8.1	3.0	12.8	740	350	100
APR 07...	1315	.93	1750	8.2	10.0	10.4	660	310	100
MAY 05...	1230	.34	2100	8.2	14.0	9.6	740	350	100
JUN 08...	1030	.36	2000	8.1	16.0	8.2	770	360	110
JUL 08...	1000	.38	1900	8.1	16.0	9.9	770	380	110
AUG 18...	1100	.37	1910	8.2	15.0	11.0	770	390	110
SEP 19...	1430	.36	2000	8.2	15.5	11.2	740	340	100

09250600 WILSON CREEK NEAR AXIAL, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K)	BICAR- BONATE (HCO3)	CAR- BONATE (CO3)	ALKA- LINITY AS CACO3	DIS- SOLVED SULFATE (SO4)	DIS- SOLVED CHLO- RIDE (CL)
OCT 15...	120	180	2.8	10	493	0	404	540	160
NOV 05...	130	180	2.8	9.9	473	0	388	540	160
DEC 09...	140	170	2.5	11	526	0	431	520	160
JAN 06...	130	180	2.8	9.8	536	0	440	510	160
FEB 07...	120	180	2.8	9.7	505	0	414	530	160
MAR 10...	120	170	2.7	9.0	486	0	399	480	150
APR 07...	100	150	2.5	9.1	430	0	350	420	130
MAY 05...	120	180	2.9	10	480	0	390	500	160
JUN 08...	120	180	2.8	10	500	0	410	500	150
JUL 08...	120	180	2.8	9.0	470	0	390	490	150
AUG 18...	120	150	2.4	11	460	0	380	490	150
SEP 19...	120	160	2.6	9.5	490	0	400	520	130

DATE	DIS- SOLVED FLUO- RIDE (F)	DIS- SOLVED SILICA (SiO2)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED NITRITE PLUS NITRATE (N)	DIS- SOLVED ORTHO. PHOS- PHORUS (P)	DIS- SOLVED BORON (B)	DIS- SOLVED IRON (FE)	DIS- SOLVED MAN- GANESE (MN)
OCT 15...	.5	15	1390	1.58	.40	.02	200	30	70
NOV 05...	.4	15	1380	1.34	.33	.02	210	30	60
DEC 09...	.6	14	1400	1.78	.52	.00	220	40	100
JAN 06...	.6	17	1380	.45	.46	.01	200	30	80
FEB 07...	.5	15	1380	2.35	.36	.01	220	50	100
MAR 10...	.6	12	1280	2.42	.25	.03	200	90	60
APR 07...	.5	11	1130	2.84	.26	.04	200	60	110
MAY 05...	.7	14	1320	1.21	.19	.04	210	70	50
JUN 08...	.7	15	1330	1.29	.43	.01	220	20	90
JUL 08...	.6	14	1310	1.34	.32	.01	210	40	40
AUG 18...	.6	15	1270	1.27	.18	.01	230	10	30
SEP 19...	.6	15	1300	1.26	.25	.01	260	30	40

GREEN RIVER BASIN

09250600 WILSON CREEK NEAR AXIAL, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS-SOLVED ANTI-MONY (SB) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
DEC 09...	1100	1	1	0	1	0	.0
APR 07...	1315	0	0	1	4	1	.0
JUL 08...	1000	--	0	1	1	3	.2

DATE	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED VANADIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED ORGANIC CARBON (C) (MG/L)
DEC 09...	2	6	1.0	10	2.6	147
APR 07...	3	5	1.1	10	6.3	5.5
JUL 08...	6	8	1.3	0	4.0	4.4

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	1790	1900	1990	2020		---
2						---	1800	1890	1990	2010		---
3						---	1790	1880	1990	2010		---
4						---	1790	1870	1990	2020		---
5						---	1780	1830	1990	2020		---
6						---	1770	1830	1990	2020		---
7						---	1770	1860	1990	2020		---
8						---	1780	1880	1990	2010		---
9						---	1800	1910	1990	2010		2010
10						---	1820	1950	1990	2010		2020
11						---	1840	1970	1990	2010		2010
12						---	1860	2000	1990	2010		1990
13						---	1880	2000	1990	2010		1950
14						---	1890	2010	1990	2010		1920
15						---	1910	2000	1990	2010		1890
16						---	1920	2000	2010	2010		1850
17						---	1930	2000	2010	2010		1860
18						---	1950	2010	2010	2010		1940
19						---	1980	2010	2010	2010		2000
20						---	1990	2010	2010	2010		1980
21						---	2000	2000	2020	2010		1980
22						---	1990	2000	2020	2010		1970
23						1820	1990	2000	2010	---		1930
24						1820	1970	2000	2010	---		1930
25						1820	1970	2000	2010	---		1930
26						1810	1950	2010	2010	---		1920
27						1810	1940	2010	2010	---		1910
28						1810	1930	2010	2010	---		1880
29						1810	1920	2000	2010	---		1840
30						1790	1910	2000	2010	---		1820
31						1800	---	1990	---	---		---

09250600 WILSON CREEK NEAR AXIAL, CO--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1							---	---	23.5	7.0	---	---
2							---	---	22.5	---	---	---
3									21.5	7.0	---	---
4									20.5	7.0	---	---
5									20.5	10.0	---	---
6							---	---	22.5	8.5	---	---
7							---	---	23.0	7.5	---	---
8							---	---	21.5	8.5	---	---
9							---	---	27.0	8.0	21.5	9.0
10							---	---	26.5	8.0	20.0	7.0
11							---	---	26.0	9.5	14.5	10.5
12							---	---	---	---	17.0	8.5
13							---	---	---	---	20.0	6.5
14							---	---	---	---	20.0	6.5
15							---	---	---	---	20.0	9.0
16							---	---	---	---	16.0	8.0
17							---	---	---	---	---	---
18							---	---	24.5	14.0	---	---
19							---	---	21.5	12.0	16.5	8.5
20							---	---	26.0	10.0	18.0	7.0
21							---	---	22.5	10.0	17.5	8.5
22							---	---	23.5	10.5	16.0	7.0
23							---	---	24.0	10.0	16.5	7.0
24							---	---	21.0	11.0	16.5	5.0
25							---	---	20.5	12.0	18.5	6.5
26							16.0	7.0	20.0	9.5	18.5	8.5
27							15.0	7.0	22.0	8.0	19.0	5.5
28							23.0	7.0	22.0	9.0	20.0	7.5
29							21.5	7.0	22.5	8.5	17.5	8.5
30							23.5	7.5	---	---	10.5	6.5
31							23.5	7.0	---	---	---	---

GREEN RIVER BASIN

09250600 WILSON CREEK NEAR AXIAL, CO--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	83	.09	39	.04	40	.05	---	.02	46	.07	---	.04
2	94	.10	37	.04	39	.05	---	.01	23	.04	---	.04
3	78	.09	34	.03	39	.05	---	.01	11	.02	---	.04
4	76	.08	31	.03	39	.05	---	.00	21	.03	---	.05
5	63	.07	25	.03	39	.05	---	.00	22	.04	---	.05
6	60	.06	23	.02	44	.05	---	.00	21	.03	---	.05
7	59	.06	25	.03	41	.05	---	.00	35	.06	---	.05
8	59	.06	35	.04	39	.05	---	.00	53	.09	---	.06
9	59	.06	53	.05	34	.04	---	.00	30	.06	---	.06
10	59	.07	45	.05	24	.03	---	.00	14	.02	31	.06
11	59	.06	50	.05	---	.02	---	.00	13	.02	33	.06
12	52	.06	48	.05	---	.02	---	.01	12	.02	33	.06
13	53	.06	43	.05	---	.02	---	.01	10	.02	37	.07
14	43	.05	42	.04	---	.02	---	.01	9	.01	42	.08
15	36	.04	41	.04	---	.02	---	.01	8	.01	45	.09
16	36	.04	42	.04	---	.02	---	.01	29	.05	36	.07
17	35	.04	41	.04	---	.02	---	.01	31	.05	43	.09
18	34	.04	39	.04	---	.02	---	.01	40	.06	44	.09
19	33	.04	38	.04	---	.02	---	.02	51	.08	32	.06
20	33	.04	31	.03	---	.02	12	.02	34	.05	30	.06
21	42	.05	36	.04	---	.02	11	.02	22	.04	40	.08
22	44	.05	40	.04	---	.02	12	.02	50	.08	42	.09
23	45	.05	33	.04	---	.02	11	.02	70	.11	56	.14
24	43	.05	26	.03	---	.02	11	.02	20	.03	41	.10
25	45	.05	40	.05	---	.02	12	.02	16	.02	110	.26
26	49	.05	29	.03	---	.02	12	.02	18	.02	77	.18
27	47	.05	31	.04	---	.02	---	.02	---	.03	47	.12
28	45	.05	41	.05	---	.02	9	.01	---	.03	127	.34
29	46	.05	39	.05	---	.02	20	.03	---	---	79	.21
30	47	.05	40	.05	---	.02	23	.03	---	---	74	.19
31	43	.04	---	---	---	.02	32	.05	---	---	75	.20
TOTAL	---	1.75	---	1.20	---	0.89	---	0.41	---	1.19	---	3.14

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	84	.22	24	.02	69	.06	42	.04	50	.05	52	.05
2	77	.19	22	.02	110	.10	57	.06	52	.05	62	.06
3	54	.13	23	.02	152	.14	45	.05	55	.05	67	.07
4	41	.11	18	.02	113	.11	57	.06	54	.05	75	.08
5	32	.08	32	.03	160	.15	69	.07	67	.07	64	.06
6	71	.19	55	.05	115	.11	79	.08	57	.06	54	.05
7	76	.20	56	.05	61	.06	56	.06	50	.05	51	.05
8	157	.39	48	.04	66	.06	63	.06	68	.07	74	.07
9	191	.44	63	.06	154	.15	53	.06	59	.06	43	.04
10	106	.24	78	.08	105	.10	36	.04	52	.05	57	.06
11	104	.21	64	.06	191	.18	45	.05	100	.10	87	.09
12	82	.16	73	.07	209	.20	64	.06	30	.03	48	.05
13	63	.12	70	.07	104	.10	63	.06	55	.06	75	.08
14	47	.08	56	.05	69	.07	42	.04	54	.05	41	.04
15	59	.10	50	.05	158	.15	63	.06	32	.03	78	.08
16	88	.15	72	.07	93	.09	82	.08	38	.03	96	.09
17	83	.13	71	.07	86	.08	66	.07	28	.03	105	.10
18	51	.08	85	.08	102	.10	66	.07	73	.07	36	.03
19	68	.10	84	.08	73	.07	64	.06	129	.13	42	.04
20	93	.13	123	.11	60	.06	79	.08	54	.05	109	.11
21	54	.07	76	.07	59	.06	61	.06	48	.05	156	.16
22	53	.07	71	.06	52	.05	58	.06	52	.05	114	.12
23	35	.04	69	.06	64	.06	86	.09	58	.06	128	.13
24	32	.04	81	.07	72	.07	79	.08	56	.05	86	.09
25	45	.05	88	.08	77	.08	59	.06	43	.04	67	.07
26	35	.04	90	.08	71	.07	49	.05	44	.04	158	.16
27	26	.03	68	.06	66	.07	83	.08	54	.06	165	.16
28	26	.03	137	.13	52	.05	62	.06	44	.04	121	.12
29	18	.02	65	.06	55	.05	82	.08	44	.04	61	.06
30	32	.03	88	.08	37	.04	56	.06	58	.06	88	.09
31	---	---	63	.06	---	---	57	.06	60	.06	---	---
TOTAL	---	3.87	---	1.91	---	2.74	---	1.95	---	1.69	---	2.46
TOTAL LOAD FOR YEAR:			23.20	TONS.								

GREEN RIVER BASIN

09250610 JUBBS CREEK NEAR AXIAL, CO

LOCATION.--Lat 40°18'45", long 107°49'18", in SE¼SE¼ sec.16, T.4 N., R.93 W., Moffatt County, Hydrologic Unit 14050002, on right bank about 500 ft (152 m) upstream from unnamed tributary and 2.4 mi (3.9 km) northwest of Axial.

DRAINAGE AREA.--7.53 mi² (19.50 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft (1,951 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5.5 ft³/s (0.16 m³/s), Feb. 9, 1976, result of discharge measurement, may have been higher; maximum gage height, 2.30 ft (0.70 m) Feb. 26, 1976 (backwater from ice); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.2 ft³/s (0.062 m³/s) Aug. 27, gage height, 1.98 ft (0.604 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00
2	.03	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00
3	.10	.03	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02
4	.03	.07	.00	.00	.00	.00	.03	.00	.00	.00	.00	.07
5	.03	.03	.00	.00	.00	.00	.03	.00	.00	.00	.01	.00
6	.03	.03	.00	.00	.00	.01	.04	.00	.00	.00	.00	.00
7	.03	.00	.00	.00	.00	.01	.03	.00	.00	.00	.00	.00
8	.03	.00	.00	.00	.00	.02	.20	.00	.00	.00	.00	.00
9	.03	.00	.00	.00	.00	.02	.22	.00	.00	.00	.00	.00
10	.03	.00	.00	.00	.00	.02	.11	.00	.00	.00	.00	.01
11	.03	.01	.00	.00	.00	.02	.05	.00	.00	.00	.00	.04
12	.03	.03	.00	.00	.00	.01	.07	.00	.00	.00	.00	.07
13	.03	.05	.00	.00	.00	.01	.03	.00	.00	.00	.00	.03
14	.03	.05	.00	.00	.00	.01	.04	.00	.00	.00	.00	.03
15	.03	.05	.00	.00	.00	.00	.02	.00	.00	.00	.00	.07
16	.03	.05	.00	.00	.00	.00	.02	.00	.00	.00	.00	.01
17	.03	.05	.00	.00	.00	.00	.01	.00	.00	.00	.06	.00
18	.03	.02	.00	.00	.00	.00	.01	.00	.00	.00	.05	.01
19	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
20	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
21	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
22	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
23	.03	.02	.00	.00	.00	.00	.00	.00	.00	.10	.00	.06
24	.03	.02	.00	.00	.00	.00	.00	.00	.00	.07	.00	.07
25	.07	.00	.00	.00	.00	.00	.00	.00	.00	.01	.17	.00
26	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.89	.01
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.10	.02
29	.03	.00	.00	.00	---	.00	.00	.00	.00	.00	.01	.03
30	.03	.00	.00	.00	---	.01	.00	.00	.00	.00	.00	.08
31	.07	---	.00	.00	---	.01	---	.00	---	.00	.00	---
TOTAL	1.27	.51	.00	.00	.00	.15	.97	.00	.00	.20	1.29	.74
MEAN	.041	.017	.000	.000	.000	.005	.032	.000	.000	.006	.042	.025
MAX	.10	.07	.00	.00	.00	.02	.22	.00	.00	.10	.89	.08
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	2.5	1.0	.00	.00	.00	.3	1.9	.00	.00	.4	2.6	1.5

CAL YR 1976 TOTAL 28.09 MEAN .077 MAX .60 MIN .00 AC-FT 56
WTR YR 1977 TOTAL 5.13 MEAN .014 MAX .89 MIN .00 AC-FT 10

NOTE.--NO GAGE-HEIGHT RECORD NOV. 25 TO APR. 7.

GREEN RIVER BASIN

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09250610 JUBB CREEK NEAR AXIAL, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1976 to current year.

WATER TEMPERATURES: July 1976 to current year.

INSTRUMENTATION.--water-quality monitor since July 1976.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DTS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)
OCT 15...	0900	.07	1600	8.2	.5	11.0	850	430	93
NOV 05...	1245	.05	1600	8.1	2.0	10.6	940	480	96

DATE	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT 15...	150	89	1.3	6.4	510	0	418	500	39
NOV 05...	170	92	1.3	7.3	560	0	459	550	38

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED IRON (FE) (MG/L)	DIS- SOLVED MANG- ANESE (MN) (UG/L)
OCT 15...	.3	12	1140	.22	.02	.01	130	30	0
NOV 05...	.2	14	1240	.17	.02	.01	200	40	10

09250610 JUBB CREEK NEAR AXIAL, CO--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1									---	---	---	---
2									---	---	---	---
3									---	---	---	---
4									---	---	---	---
5									---	---	---	---
6									---	---	---	---
7									---	---	---	---
8									---	---	---	---
9									---	---	---	---
10									---	---	---	---
11									---	---	17.5	13.5
12									---	---	22.5	10.0
13									---	---	---	---
14									---	---	---	---
15									---	---	23.5	10.0
16									---	---	24.0	9.5
17									---	---	---	---
18									---	---	---	---
19									---	---	19.5	6.5
20									---	---	23.0	8.0
21									---	---	22.0	10.0
22									---	---	19.5	6.5
23									---	---	20.0	6.5
24									---	---	21.0	---
25									---	---	---	---
26									---	---	---	---
27									21.5	10.5	25.5	---
28									25.5	11.0	22.5	8.5
29									---	---	20.5	10.5
30									---	---	12.0	6.5
31									---	---	---	---

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 (30 m) downstream from bridge on U.S. Highway 40, 2.0 mi (3.2 km) downstream from Lay Creek, and 3.0 mi (4.8 km) east of Maybell.

DRAINAGE AREA.--3,410 mi² (8,830 km²), 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 (1,798.390 m) above mean sea level. See WSP 1733 for history of changes prior to Mar. 9, 1937.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by transbasin diversions, numerous storage reservoirs, and diversions above station for irrigation of about 65,000 acres (263 km²) above and about 800 acres (3.24 km²) below station.

AVERAGE DISCHARGE.--61 years (water years 1917-77), 1,534 ft³/s (43.44 m³/s), 1,111,000 acre-ft/yr (1,370 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 17,900 ft³/s (507 m³/s) May 19, 1917, gage height, 10.4 ft (3.17 m), from floodmarks, site and datum then in use, from rating curve extended above 12,000 ft³/s (340 m³/s); minimum daily, 2.0 ft³/s (0.057 m³/s) July 17-19, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,620 ft³/s (103 m³/s) June 5, gage height, 5.04 ft (1.536 m), no peak above base of 7,000 ft³/s (200 m³/s); minimum daily, 22 ft³/s (0.623 m³/s) July 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	180	219	150	120	165	260	404	2270	1830	146	89	197
2	180	230	150	120	165	270	392	2410	2300	125	76	152
3	180	219	150	120	170	280	360	2070	2760	101	67	137
4	190	219	150	90	170	280	333	2140	2670	87	50	151
5	212	230	150	90	175	280	272	1870	3180	73	50	102
6	276	230	150	90	180	270	273	1480	3060	69	53	96
7	284	219	150	90	185	270	233	1420	3110	65	49	88
8	264	212	150	90	190	280	424	1740	2880	67	51	83
9	244	208	150	110	195	290	616	2180	2630	76	87	90
10	248	205	150	130	200	300	633	2450	3180	83	82	76
11	244	205	150	150	200	290	918	2540	2740	53	60	70
12	236	202	150	150	200	290	1180	1890	2190	41	53	62
13	236	188	150	150	200	290	1170	1640	1760	40	48	58
14	236	150	150	150	200	290	790	1510	1530	35	42	51
15	230	115	150	150	205	290	449	1990	1330	31	53	46
16	226	170	150	150	215	290	721	2240	1180	30	54	57
17	222	198	150	150	220	300	739	2060	1000	22	56	67
18	216	214	150	150	230	310	710	2190	870	24	52	60
19	212	213	150	150	240	320	768	2130	771	25	52	71
20	208	217	150	150	260	330	1140	2010	679	26	52	70
21	191	217	150	150	260	340	920	1760	591	27	53	69
22	177	219	150	150	260	340	801	1550	517	28	54	69
23	188	184	150	150	260	350	764	1360	461	29	54	68
24	202	148	150	150	260	372	961	1380	393	30	53	66
25	212	120	150	150	260	390	1220	1580	330	30	62	65
26	219	100	150	155	260	410	1480	1630	296	66	62	69
27	219	100	150	155	260	456	1640	1630	286	338	119	75
28	219	110	150	160	260	439	1790	1560	252	268	142	79
29	226	120	140	160	---	526	1930	1550	221	168	191	83
30	212	130	130	160	---	570	2190	1570	184	117	243	85
31	205	---	120	160	---	497	---	1560	---	100	234	---
TOTAL	6794	5511	4590	4250	6045	10470	26221	57360	45381	2420	2453	2512
MEAN	219	184	148	137	216	338	874	1850	1513	78.1	79.1	83.7
MAX	284	230	150	160	260	570	2190	2540	3180	338	243	197
MIN	177	100	120	90	165	260	233	1360	184	22	42	46
AC-FT	13480	10930	9100	8430	11990	20770	52010	113800	90010	4800	4870	4980
CAL YR 1976 TOTAL	408436			1116	MAX 7270	MIN 91	AC-FT 810100					
WTR YR 1977 TOTAL	174007			MEAN 477	MAX 3180	MIN 22	AC-FT 345100					

NOTE.--NO GAGE-HEIGHT RECORD FEB. 5 TO APR. 20.

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 TEMPERATURE: November 1950 to August 1973, July 1975 to current year.

SUSPENDED-SEDIMENT DISCHARGE: December 1950 to May 1958, October 1975 to September 1976 (discontinued).

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, 987 micromhos Dec. 9, 1976; minimum daily, 94 micromhos June 14, 1959.

WATER TEMPERATURES: Maximum, 33.0°C Aug. 29, 1976; minimum, freezing point on many days during winter months.

SEDIMENT CONCENTRATIONS: Maximum daily, 6,000 mg/L July 22, 1951; minimum daily, 1 mg/L several days during December 1975 to February 1976.

SEDIMENT LOADS: Maximum daily, 47,100 tons (42,700 t) May 9, 1958; minimum daily, 0.49 ton (0.44 t) Sept. 6, 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 987 micromhos Dec. 9; minimum, 226 micromhos May 16.

WATER TEMPERATURES: Maximum not determined; minimum, freezing point on many days during November to March.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM PER 100 ML	FECAL COLIFORM (COL./100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA, MG)
OCT 22...	1440	184	530	8.1	9.0	9.5	820	<1	820	170
NOV 16...	1030	170	530	8.1	1.5	9.5	50	832	<1	190
DEC 07...	1130	149	720	8.3	.5	11.2	76	58	4	260
JAN 11...	1345	145	560	8.0	.0	13.3	--	--	--	200
24...	1355	150	400	7.8	1.0	12.4	--	--	--	170
FEB 15...	1200	296	440	8.6	1.0	--	--	--	--	160
25...	1245	259	500	8.7	.0	15.7	--	52	44	190
MAR 28...	1345	335	445	8.5	1.0	12.0	--	--	--	160
APR 21...	1110	993	300	8.4	10.5	9.8	--	--	--	140
MAY 27...	1215	1700	177	7.8	13.0	10.2	>800	--	--	41
JUN 28...	1100	260	390	8.1	20.5	7.2	--	825	--	120
JUL 26...	0945	31	1100	8.2	20.0	8.6	--	--	--	230
AUG 10...	1245	78	700	8.1	23.5	6.9	--	--	--	5
SEP 07...	1225	95	580	8.4	24.0	11.1	>1600	865	81000	170

B BASED ON NON-IDEAL COLONY COUNT.

GREEN RIVER BASIN

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT 22...	13	40	18	51	1.7	2.7	196	0	161	94
NOV 16...	35	41	22	50	1.6	2.4	192	0	157	100
DEC 07...	34	56	28	65	1.8	3.5	269	0	221	150
JAN 11...	6	47	19	53	1.7	2.9	231	0	189	96
24...	17	41	17	43	1.4	2.5	190	0	160	80
FEB 15...	9	35	18	43	1.5	2.4	170	8	150	89
25...	14	41	21	54	1.7	2.8	197	8	175	110
MAR 28...	38	33	18	41	1.4	2.3	140	2	120	100
APR 21...	38	33	13	21	.8	1.5	120	0	98	61
MAY 27...	0	6.0	6.4	11	.7	1.3	66	0	54	24
JUN 28...	19	29	11	35	1.4	2.0	120	0	98	59
JUL 26...	24	49	26	160	4.6	6.0	250	0	210	200
AUG 10...	0	2.3	.1	--	--	5.3	230	0	190	110
SEP 07...	2	40	16	70	2.4	5.3	200	0	160	120

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)
OCT 22...	21	.3	4.0	328	328	.25	.69	.01	--	--
NOV 16...	23	.3	5.5	346	339	.03	.21	.02	--	1200
DEC 07...	25	.3	6.9	449	467	.07	1.1	.20	8.5	2900
JAN 11...	25	.3	9.3	369	366	.38	.42	.05	--	--
24...	14	.2	7.3	296	299	.06	1.3	.04	2.7	--
FEB 15...	18	.2	5.1	459	303	.04	.79	.04	4.2	--
25...	22	.2	4.0	375	360	.04	.45	.04	--	1800
MAR 28...	17	.3	4.6	307	287	.01	.13	.05	2.7	--
APR 21...	6.9	.2	6.6	210	202	.01	.33	.00	--	--
MAY 27...	3.4	.1	6.8	117	92	.03	--	.05	--	860
JUN 28...	20	.3	5.3	222	221	.01	.60	.03	--	3000
JUL 26...	130	.6	2.0	677	697	.01	.97	.03	5.1	800
AUG 10...	31	.4	2.5	424	--	.02	--	.04	--	120
SEP 07...	27	.3	2.9	375	380	.52	.84	.04	--	34000

09231000 YAMPA RIVER NEAR MAYBELL, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
DEC 07...	1130	0	0	<10	1	0	0	<50	1	10	2	250
MAR 28...	1345	1	0	<10	1	0	10	<50	0	<10	4	550
JUL 26...	0945	0	1	<10	2	10	10	<50	0	60	13	230
SEP 07...	1225	3	1	10	3	0	0	<50	1	10	11	2400

DATE	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
DEC 07...	20	<100	3	20	20	.0	.0	1	1	30	10
MAR 28...	140	100	2	50	30	.0	.0	1	1	30	0
JUL 26...	110	<100	4	40	10	.0	.0	1	1	60	6
SEP 07...	50	<100	3	100	20	.3	.0	0	2	--	60

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	664	512	737		---	636	464	---	433	621	---	585
2	660	526	786		---	664	511	---	438	664	---	549
3	648	513	786		---	681	536	---	433	727	---	543
4	638	513	813		---	691	564	---	428	777	---	527
5	649	514	812		---	710	581	---	439	813	---	539
6	664	530	795		---	707	591	---	422	827	---	578
7	623	487	757		---	689	595	---	411	864	---	627
8	593	484	746		---	680	593	---	414	935	---	607
9	593	485	771		---	682	571	---	420	938	---	597
10	577	455	702		---	700	645	---	409	940	---	616
11	564	445	648		---	753	631	---	402	843	---	656
12	565	452	650		---	734	384	---	417	---	---	668
13	550	477	649		---	724	---	---	434	---	---	662
14	541	489	474		---	669	---	---	437	---	---	678
15	531	504	---		---	700	---	---	424	---	---	710
16	536	471	---		---	706	---	238	433	---	---	723
17	543	457	---		---	668	---	299	450	---	---	713
18	531	485	---		---	682	---	301	465	---	767	727
19	536	470	---		---	679	---	297	478	---	780	722
20	536	463	---		---	652	---	305	441	---	807	712
21	545	462	---		---	641	---	435	437	---	821	728
22	536	457	---		---	602	---	390	458	---	697	732
23	522	---	---		---	570	---	376	488	---	773	728
24	535	---	---		---	513	---	410	543	---	770	737
25	544	---	---		500	505	---	341	560	---	886	745
26	536	---	---		534	513	---	310	612	---	872	720
27	529	---	---		559	494	---	351	597	---	773	689
28	528	719	---		586	461	---	329	501	---	739	655
29	526	732	---		---	479	---	331	548	---	740	669
30	519	728	---		---	448	---	365	580	---	678	636
31	511	---	---		---	442	---	403	---	---	595	---

09251000 YAMPA RIVER NEAR MAYBELL, CO--CONTINUED

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.0	12.5	8.0	2.0	.5	.0			---		.5	---
2	18.5	14.0	8.0	2.5	.5	.0			---		.5	---
3	15.0	12.5	8.0	4.0	.5	.0			---		.5	---
4	16.5	11.0	8.5	3.0	.5	.0			---		.5	---
5	15.0	11.0	8.0	3.0	.5	.0			---		.5	---
6	12.0	10.0	7.5	2.5	.5	.0			---		.5	---
7	13.5	9.0	7.5	2.0	.5	.0			---		.5	---
8	13.5	8.5	6.5	2.5	.5	.0			---		.5	---
9	14.5	9.0	7.5	2.0	1.0	.0			---		.5	---
10	15.0	10.0	5.0	1.5	.5	.0			---		.5	---
11	14.0	10.5	6.0	.5	.5	.0			---		.5	---
12	15.5	10.0	4.0	.0	.5	.0			---		1.0	---
13	15.0	9.5	2.5	.0	.0	.0			---		1.0	---
14	14.0	9.0	2.5	.0	.0	-0.5			---		.5	---
15	14.5	9.0	---	.0	.5	-0.5			---		1.0	---
16	14.0	8.5	4.0	.5	---	---			---		1.0	---
17	13.0	8.5	---	.0	---	---			---		1.0	---
18	11.0	6.0	4.5	.0	---	---			---		.5	---
19	10.0	4.0	4.5	.5	---	---			---		.5	.0
20	10.0	3.5	5.0	.5	---	---			---		1.0	.0
21	11.0	3.5	3.0	.0	---	---			---		1.0	.0
22	10.0	3.5	2.5	.0	---	---			---		1.0	.0
23	9.0	2.5	---	.0	---	---			---		1.0	.0
24	10.0	3.5	---	.0	---	---			---		1.0	.0
25	6.5	3.0	---	.0	---	---			1.0		1.5	.0
26	6.5	2.5	.5	.0	---	---			1.0		2.5	.0
27	7.0	1.0	.5	---	---	---			1.0		4.5	.0
28	7.5	1.0	.5	.0	---	---			.5		2.0	.0
29	7.0	1.0	1.0	.0	---	---			---		2.5	.0
30	8.0	2.0	1.0	.0	---	---			---		4.0	.0
31	7.5	2.0	---	---	---	---			---		4.5	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5.0	.0	14.5	13.0					---	---	24.0	21.5
2	5.0	2.0	14.5	11.5					---	---	24.0	21.0
3	5.0	1.0	13.5	12.0					---	---	24.0	21.0
4	6.5	2.5	13.5	12.0					---	---	24.0	22.0
5	9.0	4.5	14.0	11.0					---	---	24.5	22.0
6	12.0	6.0	14.5	12.0					---	---	24.5	22.0
7	14.0	8.5	17.0	12.0					---	---	24.5	22.5
8	14.0	9.5	17.5	13.5					---	---	24.0	21.0
9	14.5	10.5	17.5	14.0					---	---	24.0	18.5
10	14.0	10.5	---	---					---	---	23.0	18.0
11	13.0	11.0	---	---					---	---	21.5	19.5
12	11.5	9.5	---	---					---	---	22.5	18.5
13	10.5	8.0	15.0	12.0					---	---	22.0	16.0
14	11.0	7.5	14.0	12.0					---	---	21.5	15.5
15	10.0	8.0	---	---					---	---	21.5	17.0
16	10.5	7.5	---	---					---	---	21.0	16.0
17	13.5	8.5	14.5	11.5					---	---	19.0	14.5
18	15.0	12.0	14.5	12.5					24.5	21.5	19.5	13.0
19	13.0	11.0	14.5	11.5					24.0	20.0	18.0	13.0
20	12.5	9.5	14.5	12.0					24.5	18.0	18.5	12.5
21	13.5	9.5	14.5	12.0					24.0	18.0	19.0	14.0
22	15.0	10.0	16.5	12.5					24.0	18.0	16.5	12.0
23	16.0	11.5	17.0	13.5					24.5	19.0	16.0	12.0
24	17.5	12.5	16.5	13.5					23.5	19.5	16.5	11.0
25	17.5	13.0	16.5	13.0					24.0	19.0	16.5	11.5
26	17.0	13.5	15.0	---					24.0	18.5	15.5	11.5
27	16.0	13.5	---	---					24.0	17.0	17.0	10.5
28	14.0	13.0	---	---					24.0	18.5	18.0	10.5
29	15.5	12.0	---	---					24.0	19.0	17.5	11.5
30	16.0	13.0	---	---					24.0	20.5	13.5	10.5
31	---	---	---	---					24.0	20.5	---	---

04251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE TIME	OCT 22,76 1440	NOV 16,76 1030	DEC 7,76 1130	FEB 25,77 1245	MAY 27,77 1215					
TOTAL CELLS/ML	910	1200	2900	1800	950					
DIVERSITY: DIVISION	1.0	1.2	0.8	0.6	1.0					
..CLASS	1.0	1.2	0.8	0.6	1.0					
...ORDER	1.2	1.5	1.0	0.7	1.6					
...FAMILY	2.1	3.0	2.0	1.5	2.7					
....GENUS	2.1	3.4	2.4	1.5	3.0					
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	--	-	--	-	--	-
....MICRACTINIACEAE										
....GOLENKINIA	--	-	9	1	--	-	--	-	19	2
....MICRACTINIUM	--	-	210#	17	220	7	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	38	4	80	7	170	6	25	1	12	1
....CHODATELLA	--	-	--	-	--	-	--	-	*	0
....DICTYOSPHAERIUM	--	-	71	6	--	-	--	-	--	-
...OOCYSTIS	--	-	44	4	220	7	--	-	*	0
....QUADRIGULA	--	-	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	31	1	--	-	--	-
....TREUBARIA	--	-	--	-	--	-	--	-	--	-
...SCENEDESMAEAE										
....ACTINASTRUM	--	-	18	1	110	4	--	-	15	2
...SCENEDESMUS	490#	54	350#	29	1700#	58	--	-	280#	33
...TETRASTRUM	--	-	--	-	--	-	--	-	15	2
...TETRASPORALES										
...COCCOMYXACEAE										
....ELAKATOTHRIX	--	-	--	-	--	-	--	-	--	-
...PALMELLACEAE										
...SPHAEROCYSTIS	--	-	9	1	--	-	--	-	--	-
...VOLVOCALES										
...CHLAMYDOMONADACEAE										
...CHLAMYDOMONAS	--	-	9	1	--	-	150	8	23	3
...PHACOTACEAE										
...PHACOTUS	--	-	--	-	15	1	--	-	--	-
...ZYGNEMATALES										
...ZYGNEMATAEAE										
....MOUGEOTIA	--	-	--	-	62	2	--	-	--	-
CHRYCOPHYTA										
..BACILLARIOPHYCEAE										
...CENTRALES										
...COSCINODISCACEAE										
...CYCLOTELLA	57	6	66	5	110	4	*	0	130	15
...PENNALES										
....ACHNANTHACEAE										
....ACHNANTHES	19	2	--	-	--	-	--	-	*	0
...COCCONEIS	--	-	13	1	15	1	--	-	*	0
...CYMBELLACEAE										
....AMPHORA	--	-	*	0	--	-	--	-	--	-
....CYMBELLA	--	-	9	1	--	-	--	-	23	3
....EPITHEMIA	--	-	13	1	--	-	--	-	*	0
...DIATOMACEAE										
....DIATOMA	19	2	--	-	*	0	1300#	71	15	2
...FRAGILARIACEAE										
...ASTERIONELLA	--	-	--	-	--	-	--	-	12	1
...FRAGILARIA	--	-	--	-	--	-	--	-	--	-
...HANNAEA	--	-	--	-	--	-	--	-	*	0
...SYNEDRA	--	-	18	1	15	1	--	-	23	3
...GOMPHONEMATAEAE										
...GOMPHONEMA	19	2	9	1	--	-	140	8	23	3
...NAVICULACEAE										
....CALONEIS	--	-	*	0	--	-	12	1	--	-
....GYROSIGMA	--	-	*	0	--	-	--	-	--	-
...NAVICULA	95	10	35	3	46	2	--	-	120	14
...NITZSCHACEAE										
...CYLINDROTHECA	--	-	--	-	--	-	--	-	*	0
...NITZSCHIA	170#	19	130	11	77	3	150	8	140#	16
...SURIRELLACEAE										
....SURIRELLA	--	-	--	-	--	-	--	-	--	-

GREEN RIVER BASIN

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 to SEPTEMBER 1977

DATE TIME	OCT 22,76 1440		NOV 16,76 1030		DEC 7,76 1130		FEB 25,77 1245		MAY 27,77 1215	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROCCOCCALES										
...CHROCCOCCAEAE										
....ANACYSTIS	--	-	--	-	--	-	--	-	--	-
...HORMOGONALES										
...VOSTOCCAEAE										
....ANABAENA	--	-	27	2	--	-	--	-	--	-
....ANABAENOPSIS	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	88	7	--	-	--	-	--	-
...SCYTONEMATACEAE										
....PLECTONEMA	--	-	--	-	150	5	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
..CRYPTOPHYCEAE										
...CRYPTOMONIDALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	--	-	12	1	--	-
...CRYPTOMONODACEAE										
....CRYPTOMONAS	--	-	--	-	--	-	37	2	--	-
..EUGLENOPHYCEAE										
...EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	--	-	*	0
...TRACHELOMONAS	--	-	--	-	15	1	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)										
..DINOPHYCEAE										
...PERIDINIALES										
...PERIDINIACEAE										
....PERIDINIUM	--	-	--	-	--	-	--	-	--	-

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 to SEPTEMBER 1977

DATE TIME	JUN 28, 77 1100	JUL 26, 77 0945	AUG 10, 77 1245	SEP 7, 77 1225
TOTAL CELLS/ML	3000	800	120	34000
DIVERSITY: DIVISION	0.7	1.5	0.8	1.6
..CLASS	0.7	1.5	0.8	1.6
...ORDER	0.9	1.5	0.8	2.2
...FAMILY	1.7	2.6	2.8	2.8
....GENUS	2.6	2.8	2.8	3.1

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....HYDRODICTYACEAE								
.....PEDIASTRUM	* 0		--	-	--	-	--	-
.....MICRACTINIACEAE								
.....GOLENKINIA	39	1	--	-	--	-	--	-
.....MICRACTINIUM	58	2	--	-	--	-	650	2
...OOCYSTACEAE								
....ANKISTRODESMUS	48	2	12	2	--	-	430	1
....CHODATELLA	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	860#	29	--	-	--	-	--	-
....OOCYSTIS	--	-	6	1	--	-	870	3
....QUADRIGULA	19	1	--	-	--	-	320	1
....SELENASTRUM	--	-	--	-	--	-	--	-
....TREUBARIA	1200#	40	--	-	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	140	5	--	-	--	-	8000#	23
....SCENEDESMUS	77	3	110	13	9	7	650	2
....TETRASTRUM	--	-	25	3	--	-	430	1
...TETRASPORALES								
...COCCOMYXACEAE								
....ELAKATOTHRIX	--	-	--	-	--	-	430	1
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-
...VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	77	3	--	-	--	-	--	-
...PHACOTACEAE								
....PHACOTUS	--	-	--	-	--	-	--	-
...ZYGNEMATALES								
...ZYGNEMATACEAE								
....MOUGEOTIA	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	* 0		--	-	--	-	1200	3
...PENNALES								
....ACHNANTHACEAE								
.....ACHNANTHES	--	-	6	1	--	-	--	-
....COCCONEIS	58	2	25	3	23#	19	540	2
....CYMBELLACEAE								
.....AMPHORA	--	-	--	-	--	-	--	-
.....CYMBELLA	--	-	--	-	--	-	--	-
.....EPITHEMIA	77	3	6	1	9	7	--	-
...DIATOMACEAE								
....DIATOMA	--	-	--	-	14	11	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	--	-	--	-
....FRAGILARIA	--	-	6	1	--	-	--	-
....HANNAEA	--	-	--	-	--	-	--	-
....SYNEDRA	48	2	25	3	9	7	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	68	2	12	2	--	-	--	-
...NAVICULACEAE								
....CALONEIS	--	-	--	-	--	-	--	-
....GYROSIGMA	--	-	--	-	--	-	--	-
....NAVICULA	150	5	19	2	36#	30	1700	5
...NITZSCHACEAE								
....CYLINDROTHECA	--	-	--	-	--	-	--	-
....NITZSCHIA	--	-	99	12	14	11	3200	9
...SURIRELLACEAE								
....SURIRELLA	--	-	--	-	--	-	* 0	

GREEN RIVER BASIN

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 to SEPTEMBER 1977

DATE TIME	JUN 28,77 1100		JUL 26,77 0945		AUG 10,77 1245		SEP 7,77 1225	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROCOCCALES								
...CHROCOCCACEAE								
....ANACYSTIS	--	-	--	-	--	-	11000#	31
...HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	48	2	220#	27	--	-	--	-
....ANABAEOPSIS	--	-	--	-	--	-	1300	4
...OSCILLATORIAEAE								
....LYNGBYA	--	-	230#	29	--	-	--	-
....OSCILLATORIA	--	-	--	-	--	-	3500	10
...SCYTONEMATACEAE								
....PLECTONEMA	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..CRYPTOPHYCEAE								
...CRYPTOMONIDALES								
...CRYPTOCHYSIDACEAE								
....CHROOMONAS	--	-	--	-	--	-	--	-
...CRYPTOMONODACEAE								
....CRYPTOMONAS	--	-	6	1	--	-	--	-
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	9	7	*	0
....TRACHELONAS	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
..DINOPHYCEAE								
...PERIDINIALES								
...PERIDINIACEAE								
....PERIDINIUM	--	-	--	-	--	-	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO

LOCATION.--Lat 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 (0.3 km) downstream from Spring Creek, and 12 mi (19 km) east of Slater.

DRAINAGE AREA.--285 mi² (738 km²).

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 (2,082.089 m) above mean sea level.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 2,000 acres (8.09 km²) above station.

AVERAGE DISCHARGE.--32 years, 223 ft³/s (6.315 m³/s), 161,600 acre-ft/yr (199 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,180 ft³/s (118 m³/s) Apr. 25, 1974, gage height, 8.95 ft (2.728 m), from recorded range in stage; minimum daily, 8.6 ft³/s (0.24 m³/s) Sept. 10, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 869 ft³/s (24.6 m³/s) May 17, gage height, 5.77 ft (1.759 m), no peak above base of 1,600 ft³/s (45 m³/s); minimum daily, 9.0 ft³/s (0.25 m³/s) Jan. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	27	14	13	27	22	27	498	445	43	18	18
2	25	29	14	13	28	21	27	406	508	41	17	16
3	44	33	15	13	29	21	27	442	549	42	16	17
4	61	29	15	12	29	21	28	339	527	40	16	48
5	37	29	15	11	30	21	28	296	501	57	20	28
6	32	29	15	12	31	22	36	314	507	57	39	20
7	34	28	15	12	31	23	58	339	444	49	31	18
8	31	28	15	11	32	24	73	421	432	45	21	16
9	32	27	15	9.0	33	24	99	452	542	41	17	15
10	32	25	15	10	33	24	124	420	389	37	16	15
11	30	28	15	12	33	24	114	322	301	32	15	15
12	30	26	15	14	33	24	111	315	240	25	14	19
13	29	28	15	15	33	24	94	316	208	22	14	22
14	29	37	15	16	33	24	90	384	180	25	14	20
15	29	37	15	18	33	24	96	452	157	23	14	18
16	26	37	15	20	33	24	86	561	138	21	16	18
17	27	37	15	21	33	24	109	643	124	19	15	17
18	26	34	15	22	34	24	161	594	112	19	19	16
19	22	34	15	24	35	24	167	483	102	19	28	16
20	23	34	15	25	35	24	120	408	92	24	26	16
21	25	35	15	25	34	24	148	360	85	26	20	16
22	27	36	15	25	31	24	181	337	83	44	18	19
23	28	38	15	25	26	24	233	365	84	33	17	23
24	30	40	15	25	20	24	306	411	80	40	16	27
25	27	30	15	25	20	25	314	406	79	54	27	25
26	32	22	15	25	20	25	334	382	77	39	27	25
27	27	15	15	25	21	25	363	369	75	27	40	23
28	27	11	15	26	22	26	456	365	58	27	50	20
29	31	12	14	26	---	26	528	375	52	24	36	19
30	31	13	13	27	---	26	552	398	47	22	25	20
31	28	---	13	27	---	26	---	395	---	19	20	---
TOTAL	937	868	458	584.0	832	738	5090	12568	7218	1036	682	605
MEAN	30.2	28.9	14.8	18.8	29.7	23.8	170	405	241	33.4	22.0	20.2
MAX	61	40	15	27	35	26	552	643	549	57	50	48
MIN	22	11	13	9.0	20	21	27	296	47	19	14	15
AC-FT	1860	1720	908	1160	1650	1460	10100	24930	14320	2050	1350	1200
CAL YR 1976	TOTAL	82770.0	MEAN	226	MAX	1520	MIN	11	AC-FT	164200		
WTR YR 1977	TOTAL	31616.0	MEAN	86.6	MAX	643	MIN	9.0	AC-FT	62710		

09255000 SLATER FORK NEAR SLATER, CO

LOCATION.--Lat 40°58'57", long 107°22'56", in SW¼Sec 21, T.12 N., R.89 W., Moffat County, Hydrologic Unit 14050003, on right bank 15 ft (5 m) downstream from highway bridge, 1.0 mi (1.6 km) upstream from mouth, and 1.5 mi (2.4 km) south of Slater.

DRAINAGE AREA.--161 mi² (417 km²).

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. Altitude of gage is 6,600 ft (2,012 m), from river-profile map. May 28, 1910, to May 25, 1912, nonrecording gage at site 1.5 mi (2.4 km) upstream at different datum. July 9, 1931, to May 6, 1932, nonrecording gage at site 0.2 mi (0.3 km) downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 500 acres (2.02 km²) above station.

AVERAGE DISCHARGE.--46 years (water years 1932-77), 72.9 ft³/s (2.065 m³/s), 52,020 acre-ft/yr (65.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,860 ft³/s (52.7 m³/s) May 8, 1974, gage height, 19.75 ft (3.277 m), from peak indicator; 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.--Maximum discharge, 188 ft³/s (5.32 m³/s) Apr. 29, gage height, 5.20 ft (1.585 m), no peak above base of 430 ft³/s (12 m³/s); no flow Aug. 3, 4, 15, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	15	9.0	11	14	17	27	134	48	1.6	.10	6.4
2	14	16	11	10	14	18	17	102	58	1.5	.02	6.1
3	25	17	12	9.0	14	15	27	108	64	2.0	.30	6.0
4	35	16	12	7.0	14	14	16	88	59	2.2	.00	8.8
5	21	17	12	6.0	14	14	15	77	50	2.9	.06	8.2
6	18	17	12	6.5	15	15	29	70	52	3.9	.45	6.8
7	17	17	12	7.0	15	19	38	79	51	3.4	1.2	6.1
8	16	18	13	6.0	15	21	42	86	47	2.8	.60	5.5
9	16	19	13	5.0	15	15	54	87	60	2.2	.22	1.4
10	16	20	13	6.0	15	18	61	81	51	1.4	.12	1.1
11	15	15	13	7.0	15	14	64	55	34	1.2	.14	1.7
12	15	9.3	13	9.0	15	12	50	47	26	1.6	.20	3.7
13	15	11	14	10	16	16	43	42	20	.78	.10	5.8
14	14	17	14	11	17	16	38	60	14	.55	.02	5.9
15	14	18	14	11	17	14	48	97	10	.40	.00	6.9
16	15	16	14	12	16	15	41	135	8.2	.28	.00	11
17	14	18	14	12	14	20	49	118	7.3	.22	.02	8.3
18	14	19	15	12	12	16	82	96	6.5	.18	.95	7.0
19	10	21	15	12	13	12	89	72	4.9	.16	4.2	6.8
20	12	19	14	12	13	18	57	61	4.5	.14	5.5	6.0
21	14	19	13	12	14	14	57	52	4.9	.10	3.7	4.9
22	15	19	13	12	15	15	75	46	4.6	1.0	2.8	7.2
23	15	19	13	12	15	23	93	44	4.4	1.4	3.0	8.2
24	17	19	13	12	16	21	102	47	4.0	1.2	2.4	10
25	14	19	14	12	14	21	118	41	3.8	1.1	6.1	10
26	15	14	14	12	12	17	117	36	3.6	2.0	7.8	12
27	12	9.0	14	12	16	16	124	37	2.0	1.4	14	13
28	11	6.0	14	13	20	20	135	37	1.7	.85	19	10
29	15	6.6	14	13	---	23	155	48	1.5	.50	17	9.4
30	16	7.8	13	13	---	31	144	50	1.5	.30	12	9.6
31	15	---	12	13	---	29	---	51	---	.22	8.4	---
TOTAL	490	473.7	406.0	317.5	415	549	2007	2184	707.4	39.48	110.10	213.8
MEAN	15.8	15.8	13.1	10.2	14.8	17.7	66.9	70.5	23.6	1.27	3.55	7.13
MAX	35	21	15	13	20	31	155	135	64	3.9	19	13
MIN	10	6.0	9.0	5.0	12	12	15	36	1.5	.10	.00	1.1
AC-FT	972	940	805	630	823	1090	3980	4330	1400	78	218	424
CAL YR 1976	TOTAL	25241.70	MEAN	69.0	MAX	597	MIN	1.2	AC-FT	50070		
WTR YR 1977	TOTAL	7912.98	MEAN	21.7	MAX	155	MIN	.00	AC-FT	15700		

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY

LOCATION.--Lat 41°01'42", long 107°32'55", in SE¼NW¼ sec.8, T.12 N., R.90 W., Carbon County, WY, Hydrologic Unit 14050003, on left bank 200 ft (61 m) upstream from highway bridge, 1,000 ft (305 m) upstream from Willow Creek, and 0.8 mi (1.3 km) west of Dixon.

DRAINAGE AREA.--988 mi² (2,559 km²).

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).

GAGE.--Water-stage recorder. Datum of gage is 6,331.22 ft (1,929.756 m) above mean sea level. May 27, 1910, to Sept. 30, 1923, nonrecording gage on highway bridge 200 ft (61 m) downstream at datum 2.98 ft (0.908 m) higher. Mar. 15, 1938, to Sept. 30, 1957, water-stage recorder at site 225 ft (69 m) downstream at datum 2.98 ft (0.908 m) higher; Oct. 1, 1957, to June 6, 1968, at site 850 ft (259 m) downstream at present datum; and June 7 to Sept. 30, 1968, at site 225 ft (69 m) downstream at present datum.

REMARKS.--Records poor. Diversions for irrigation of about 9,500 acres (38.4 km²) above station. One diversion above station for irrigation of about 3,000 acres (12.1 km²) below. Transbasin diversions above station.

AVERAGE DISCHARGE.--46 years (water years 1911-23, 1939-71), 514 ft³/s (14.56 m³/s), 372,400 acre-ft/yr (459 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 9,600 ft³/s (272 m³/s) May 26, 1920, gage height, 11.6 ft (3.54 m), present datum; maximum gage height, 11.74 ft (3.578 m) May 30, 1971; no flow Sept. 19, 20, 22, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 964 ft³/s (27.3 m³/s) May 18, gage height, 0.03 ft (1.838 m), from floodmarks, no peak above base of 3,200 ft³/s (91 m³/s); no flow Sept. 19, 20, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							55	650	370	1.6	2.8	.12
2							50	550	474	1.0	.45	.09
3							40	480	500	1.4	.15	.08
4							55	400	474	1.6	.17	.06
5							50	332	486	1.9	.17	.11
6							50	278	440	1.9	.14	6.2
7							75	305	462	2.4	1.0	.11
8							105	335	395	2.6	3.1	.07
9							130	355	510	2.4	.29	.05
10							165	360	534	2.4	.14	.03
11							180	330	470	1.4	.10	.02
12							165	300	410	1.0	.10	.08
13							150	290	340	.84	.09	.30
14							135	290	270	.84	.09	1.0
15							125	350	210	.69	.08	.18
16							135	560	160	.69	.07	.04
17							170	700	120	.84	.07	.01
18							250	745	80	.69	.08	.01
19							340	577	55	2.4	2.6	.00
20							390	430	35	7.5	12	.00
21							318	336	20	9.7	8.6	.01
22							415	292	12	21	.69	.00
23							510	269	9.5	25	.12	.05
24							600	318	8.5	13	.20	.10
25							650	332	7.5	19	.20	.07
26							680	300	6.5	26	.13	.06
27							690	305	5.0	10	5.3	.11
28							700	287	3.0	2.8	1.6	.17
29							700	314	1.4	.56	3.1	.11
30							695	318	2.1	4.9	.84	.10
31							---	350	---	6.8	.24	---
TOTAL							8773	12038	6870.5	174.85	44.71	20.23
MEAN							292	388	229	5.64	1.44	.67
MAX							700	745	534	26	12	11
MIN							40	269	1.4	.56	.07	.00
AC-FT							17400	23880	13630	347	69	40

GREEN RIVER BASIN

09258000 WILLON 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, Colo., Hydrologic Unit 14050003, on right bank 6.2 mi (10.0 km) south of Colorado-Wyoming State line, 8.0 mi (12.9 km) upstream from mouth, and 8.3 mi (13.4 km) south of Dixon.

DRAINAGE AREA.--24 mi² (62 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,700 ft (2,042 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. One small ditch diverts water above station for irrigation. Regulation by Elk Lake, capacity, 400 acre-ft (493,000 m³).

AVERAGE DISCHARGE.--24 years, 9.43 ft³/s (0.2671 m³/s), 6,830 acre-ft/yr (8.42 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 319 ft³/s (9.03 m³/s) Apr. 25, 1974, gage height, 5.42 ft (1.652 m), from rating curve extended above 160 ft³/s (4.5 m³/s); no flow Sept. 17-19, 1955, many days July through September 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20 ft³/s (0.57 m³/s) June 2, gage height, 2.88 ft (0.878 m), no peak above base of 70 ft³/s (2.0 m³/s); maximum gage height, 3.22 ft (0.981 m) Dec. 4 (backwater from ice); no flow many days July through September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	2.2	1.0	.80	.30	1.6	4.3	9.1	11	1.3	.00	.00
2	1.9	2.2	1.0	.80	.30	1.6	4.4	8.1	11	1.2	.00	.00
3	4.6	2.4	1.0	.80	.30	1.6	4.5	7.9	13	1.4	.00	.00
4	3.9	2.3	1.0	.80	.30	1.8	4.5	6.1	11	1.3	.00	.40
5	2.7	2.2	1.0	.80	.30	2.0	5.0	4.0	9.9	1.4	.00	.00
6	2.3	2.2	.80	.60	.30	2.1	6.4	4.1	9.8	1.4	.00	.00
7	2.3	2.4	.80	.40	.30	2.2	7.4	6.5	8.7	1.5	.00	.00
8	2.5	2.2	.80	.30	.30	2.2	5.7	8.6	8.8	1.3	.00	.00
9	2.9	2.1	.80	.30	.30	2.3	6.5	9.4	9.5	1.4	.00	.00
10	2.7	2.3	.80	.30	.30	2.4	7.8	9.2	9.2	6.2	.00	.00
11	2.8	3.2	.80	.30	.30	2.5	7.3	5.4	6.6	6.4	.00	.00
12	2.6	1.8	.80	.30	.30	2.5	6.1	5.7	5.1	6.1	.00	.00
13	2.6	2.0	.80	.30	.30	2.6	4.8	5.7	4.4	5.9	.00	.00
14	2.6	2.6	.80	.30	.30	2.6	4.0	9.1	3.7	5.9	.00	.00
15	2.6	1.9	.80	.30	.30	2.6	4.2	11	3.1	5.6	.00	.25
16	2.7	2.8	.80	.30	.30	2.7	3.5	8.9	2.7	5.6	.30	.99
17	2.7	2.7	.80	.30	.30	2.8	4.7	7.9	2.6	6.2	.25	.13
18	2.5	2.7	.80	.30	.30	2.8	7.2	7.4	2.3	6.2	.00	.14
19	1.8	2.8	.80	.30	.40	2.9	6.8	6.5	3.1	6.0	.40	.28
20	2.8	2.8	.80	.30	.60	2.9	4.0	5.2	2.7	6.2	.30	.39
21	2.5	2.2	.80	.30	.60	3.0	3.8	4.6	2.6	6.0	.00	.25
22	2.3	4.8	.80	.30	.80	3.2	2.4	4.6	2.5	6.5	.00	.09
23	2.4	2.4	.80	.30	1.0	3.3	2.0	6.3	2.3	5.6	.00	.14
24	2.5	4.3	.80	.30	1.0	3.3	1.8	9.4	3.6	5.2	.00	.34
25	2.3	3.7	.80	.30	1.0	3.4	1.7	9.6	5.0	5.8	.00	.21
26	2.4	2.2	.80	.30	1.0	3.5	3.2	7.8	2.7	4.6	.00	.34
27	2.3	1.2	.80	.30	1.2	3.6	2.6	6.5	1.7	1.3	2.5	.31
28	2.9	1.0	.80	.30	1.4	3.7	3.9	6.2	1.6	.85	.67	.16
29	2.8	1.0	.80	.30	---	3.8	10	6.6	1.4	.85	.40	.06
30	2.2	1.0	.80	.30	---	4.0	8.9	6.9	1.3	1.9	.00	.08
31	2.3	---	.80	.30	---	4.1	---	9.2	---	.00	.00	---
TOTAL	80.2	71.6	25.80	12.20	14.40	85.6	149.4	223.5	162.9	117.10	4.82	4.56
MEAN	2.59	2.39	.83	.39	.51	2.76	4.98	7.21	5.43	3.78	.16	.15
MAX	4.6	4.8	1.0	.80	1.4	4.1	10	11	13	6.5	2.5	.99
MIN	1.8	1.0	.80	.30	.30	1.6	1.7	4.0	1.3	.00	.00	.00
AC-FT	159	142	51	24	29	170	296	443	323	232	9.6	9.0
CAL YR 1976	TOTAL	3661.69	MEAN	10.0	MAX	95	MIN	.20	AC-FT	7260		
WTR YR 1977	TOTAL	952.08	MEAN	2.61	MAX	13	MIN	.00	AC-FT	1890		

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 (52 m) downstream from highway bridge, 6.0 mi (9.7 km) north of Lily, and 10 mi (16 km) upstream from mouth.

DRAINAGE AREA.--3,730 mi² (9,660 km²), 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. Altitude of gage is 5,685 ft (1,733 m), 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 (91 m) upstream at different datums.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 21,000 acres (85.0 km²) above station.

AVERAGE DISCHARGE.--56 years, 567 ft³/s (16.06 m³/s), 410,800 acre-ft/yr (507 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,200 ft³/s (402 m³/s) May 27, 1926, gage height, 10.5 ft (3.20 m), site and datum then in use, from rating curve extended above 3,600 ft³/s (100 m³/s); maximum gage height, 11.1 ft (3.38 m), Feb. 13, 1962, from floodmark (backwater from ice); no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,510 ft³/s (71.1 m³/s) July 26, gage height, 4.82 ft (1.469 m), no peak above base of 3,500 ft³/s (99 m³/s); minimum daily, 0.16 ft³/s (0.005 m³/s) Aug. 24, Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

JAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	74	44	38	49	70	209	871	508	4.4	4.4	24
2	37	70	45	37	49	67	170	871	543	7.7	1.4	24
3	42	84	42	36	49	70	176	790	508	8.2	2.4	23
4	38	84	41	34	49	74	176	595	572	5.5	2.30	11
5	35	84	41	23	49	77	167	588	641	3.6	1.4	3.6
6	35	82	40	23	50	74	155	487	681	3.3	2.5	4.8
7	100	86	42	23	50	75	155	405	625	3.6	4.0	5.5
8	98	88	42	23	50	74	152	338	588	3.3	5.0	3.6
9	94	86	42	23	50	79	164	325	625	2.5	10	1.8
10	90	94	42	30	50	80	218	366	507	1.1	13	1.5
11	88	84	42	38	50	80	321	426	610	1.2	8.8	1.8
12	86	86	42	38	50	84	468	426	572	1.8	8.7	3.6
13	86	49	42	39	50	113	536	361	426	1.8	8.8	2.9
14	86	30	42	40	50	128	522	305	330	1.5	8.2	2.2
15	86	40	42	40	50	109	468	282	264	8.80	5.1	4.0
16	84	74	42	40	54	121	415	330	212	4.40	4.4	1.2
17	82	80	42	40	58	138	395	641	182	1.1	7.7	1.5
18	82	78	41	40	62	128	366	773	152	1.4	6.0	1.4
19	82	78	39	40	66	95	343	871	135	1.1	3.6	1.1
20	80	84	38	41	68	119	426	826	123	73	30	8.80
21	78	82	37	41	70	148	558	673	94	57	19	7.70
22	78	44	37	41	73	123	522	558	64	4.45	2.9	8.80
23	78	43	37	42	75	145	405	468	72	25	4.40	1.2
24	74	42	37	44	77	152	444	426	55	180	4.16	1.0
25	66	40	37	46	78	170	522	385	70	80	4.40	7.70
26	78	33	38	46	79	179	595	410	49	1360	1.8	5.50
27	80	20	38	46	75	179	681	438	23	313	5.1	4.40
28	86	28	38	46	72	191	697	426	20	148	4.40	2.4
29	86	40	38	46	---	167	714	444	5.1	84	102	1.16
30	86	43	38	47	---	160	748	450	4.4	37	96	5.50
31	86	---	38	49	---	132	---	480	---	11	42	---
TOTAL	2320	1930	1246	1180	1652	3601	11888	16035	9260.5	2422.75	406.80	129.50
MEAN	74.8	64.3	40.2	38.1	59.0	116	376	517	309	78.2	13.1	4.32
MAX	100	94	45	49	79	191	748	871	681	1360	102	24
MIN	33	20	37	23	49	67	152	282	4.4	4.40	4.16	1.16
AC-FT	4600	3830	2470	2340	3280	7140	23580	31810	18370	4810	807	257
CAL YR 1976	TOTAL	187206.40	MEAN	511	MAX	3770	MIN	2.9	AC-FT	371300		
WTR YR 1977	TOTAL	52071.55	MEAN	143	MAX	1360	MIN	1.16	AC-FT	103300		

GREEN RIVER BASIN

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 current year.

WATER TEMPERATURES: July 1975 to current year.

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

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,640 micromhos Aug. 26, 1977; minimum, 138 micromhos June 13, 1976.

WATER TEMPERATURES: Maximum, 30.5°C July 24, 31, 1976; minimum, freezing point on many days during winter months each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,640 micromhos Aug. 26; minimum, 207 micromhos May 4.

WATER TEMPERATURES: MAXIMUM, 28.5°C June 23; minimum, freezing point on many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL./ .7UM-MF 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA+MG (MG/L)
OCT 23...	1330	76	690	8.1	7.0	8.5	--	40	200	210
NOV 17...	1000	79	600	8.2	.5	10.0	--	52	8100	220
DEC 06...	1130	40	928	8.5	.5	9.2	--	52	836	290
JAN 11...	0945	38	800	7.6	.0	7.7	--	--	--	270
JAN 25...	1040	43	560	7.5	1.0	10.8	--	--	--	190
FEB 15...	1415	116	480	7.9	1.0	--	--	--	--	160
FEB 25...	1030	78	410	8.2	.0	11.1	855	855	82	150
MAR 28...	1100	189	480	8.3	3.0	11.2	--	--	--	160
APR 21...	1400	610	440	8.0	10.0	8.9	--	--	--	150
MAY 25...	1120	390	330	7.9	14.0	7.8	1100	831	100	120
JUN 28...	1300	24	850	8.1	26.5	6.3	150	820	--	240
JUL 26...	1500	1320	1400	7.6	23.0	5.3	--	--	--	89
AUG 10...	1010	39	1550	8.0	17.0	7.3	--	--	--	--
SEP 07...	0915	5.6	1450	8.3	14.5	8.0	>1600	8180	1000	220

B BASED ON NON-IDEAL COLONY COUNT.

0926000J LITTLE SNAKE RIVER NEAR LILY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	NON-CAR-BONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORPTION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT 23...	26	56	18	80	2.4	3.1	229	0	188	170
NOV 17...	50	60	18	83	2.4	3.2	212	0	174	170
DEC 06...	36	79	23	97	2.5	3.7	312	0	256	210
JAN 11...	15	75	19	89	2.4	3.3	305	0	250	180
25...	10	53	14	62	2.0	1.8	220	0	180	120
FEB 15...	6	45	12	54	1.8	1.6	190	0	160	93
25...	5	42	11	44	1.6	2.1	177	0	145	84
MAR 28...	4	44	12	55	1.9	2.2	189	0	160	100
APR 21...	20	39	13	34	1.2	1.9	160	0	130	73
MAY 25...	11	33	8.5	28	1.1	2.1	130	0	110	59
JUN 28...	46	66	17	91	2.6	5.8	230	0	190	200
JUL 26...	0	28	4.7	300	14	4.1	220	0	180	330
AUG 10...	--	--	--	--	--	--	200	0	160	52
SEP 07...	0	64	14	250	7.4	5.1	280	0	230	390

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)
OCT 23...	26	.3	11	463	477	95.0	.00	.45	.07	2700
NOV 17...	28	.3	15	442	482	94.6	.08	.38	.12	1300
DEC 06...	30	.4	17	601	614	65.9	.09	.63	.02	180
JAN 11...	28	.3	21	567	566	58.8	.12	.35	.04	--
25...	15	.2	17	394	391	45.7	.01	1.1	.09	--
FEB 15...	18	.3	15	321	333	101	.04	.46	.11	--
25...	17	.2	13	314	301	66.1	.02	.01	.06	230
MAR 28...	17	.3	13	353	337	180	.05	.38	.16	--
APR 21...	9.2	.3	13	267	262	440	.41	1.3	.04	--
MAY 25...	7.8	.2	13	225	216	237	.02	--	.11	870
JUN 28...	32	.3	13	524	538	34.8	.01	.79	.03	1400
JUL 26...	160	.9	16	931	952	3320	1.1	--	--	0
AUG 10...	130	.8	13	1120	--	119	.60	--	.57	840
SEP 07...	85	.7	19	943	966	14.4	.03	.98	.17	2000

GREEN RIVER BASIN

09260000 LITTLE SNAKE RIVER NEAR LILY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
DEC 06...	1130	4	1	<10	1	0	0	<50	1	<10	2	510
JAN 25...	1040	--	--	--	--	--	--	--	--	--	--	--
FEB 15...	1415	--	--	--	--	--	--	--	--	--	--	--
MAR 28...	1100	2	2	<10	1	20	20	<50	0	10	1	4600
JUL 26...	1500	200	13	40	1	400	10	200	0	630	14	--
SEP 07...	0915	31	4	10	1	10	0	<50	0	20	11	870

DATE	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC 06...	30	<100	4	40	20	.0	.0	1	1	20	10	4.5
JAN 25...	--	--	--	--	--	--	--	--	--	--	--	3.1
FEB 15...	--	--	--	--	--	--	--	--	--	--	--	2.1
MAR 28...	230	100	4	130	10	.0	.0	1	1	30	10	3.1
JUL 26...	120	900	3	--	0	.7	.0	0	4	1900	0	191
SEP 07...	50	<100	3	160	10	.1	.0	2	2	110	10	--

09260000 LITTLE SNAKE RIVER NEAR LILY, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1200			---	707	515	527	244	381	627	892	1090
2	1220			---	690	494	503	228	380	693	920	1130
3	1160			---	682	520	500	213	378	686	752	1170
4	1130			---	674	485	527	213	382	663	---	1230
5	1090			---	665	460	555	231	363	474	---	1310
6	1050			---	662	475	581	243	336	373	---	1360
7	1020			---	663	471	604	254	331	322	---	---
8	1030			---	664	445	611	281	344	288	---	---
9	1020			---	661	426	629	305	361	256	---	---
10	1010			---	657	416	630	311	368	264	---	---
11	909			---	644	473	489	298	383	317	---	---
12	826			---	634	492	477	271	387	290	---	---
13	785			---	616	476	421	264	395	309	---	---
14	757			---	613	430	435	283	426	---	---	---
15	711			---	599	443	447	323	468	---	---	---
16	715			---	596	437	458	341	518	---	---	---
17	712			---	591	457	469	314	565	---	---	---
18	708			---	582	449	475	286	611	---	---	---
19	721			---	580	466	464	292	652	---	1280	---
20	729			---	572	516	462	261	687	---	1060	---
21	725			---	559	555	432	273	722	---	1220	---
22	719			---	562	551	408	280	754	---	1290	---
23	713			---	542	562	344	302	779	---	1220	---
24	---			---	542	551	391	323	801	---	1250	---
25	---			517	451	540	379	346	790	---	1350	---
26	---			633	517	523	333	369	810	---	1520	---
27	---			755	547	493	307	364	833	946	1410	---
28	---			892	533	474	269	352	821	822	1380	---
29	---			750	---	485	258	358	670	649	1310	---
30	---			745	---	486	250	367	563	702	1070	---
31	---			730	---	535	---	376	---	822	1040	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.5	10.5							---	---	3.0	1.5
2	20.0	11.5							---	---	3.0	1.0
3	18.0	11.5							---	---	2.0	2.0
4	20.0	9.0							---	---	2.0	1.5
5	16.5	9.0							---	---	1.5	.5
6	14.0	8.5							---	---	2.0	1.0
7	20.0	6.5							---	---	3.0	1.5
8	19.0	8.0							---	---	4.5	1.5
9	15.0	9.5							---	---	7.0	1.0
10	15.5	9.5							---	---	3.5	2.0
11	14.5	10.5							---	---	6.0	1.0
12	16.0	10.5							---	---	7.0	1.0
13	15.0	9.0							---	---	10.5	1.5
14	14.5	8.5							---	---	7.0	3.0
15	14.5	8.5							---	---	9.5	3.5
16	14.5	8.0							---	---	10.0	3.5
17	13.5	7.5							---	---	8.5	3.5
18	---	5.0							---	---	7.5	3.0
19	---	---							---	---	8.0	.5
20	---	---							---	---	11.0	1.0
21	---	---							---	---	9.0	.0
22	---	---							---	---	10.0	.0
23	---	---							---	---	11.5	1.0
24	---	---							---	---	9.0	2.0
25	---	---							---	---	9.0	3.5
26	---	---							2.0	1.5	12.5	3.0
27	---	---							2.0	1.5	12.5	1.5
28	---	---							2.5	1.5	6.0	.0
29	---	---							---	---	3.5	.5
30	---	---							---	---	9.5	.0
31	---	---							---	---	7.5	.0

GREEN RIVER BASIN

09260000 LITTLE SNAKE RIVER NEAR LILY, CO--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.0	1.0	15.5	11.5	23.5	14.0	21.5	7.0	27.5	12.5	19.5	11.5
2	7.0	1.0	17.0	9.5	23.0	16.0	22.0	10.0	27.0	12.0	19.5	10.0
3	9.0	.0	14.0	10.0	23.0	15.0	23.0	9.5	23.0	13.5	19.0	10.0
4	9.0	1.0	15.0	8.5	26.0	14.5	19.0	10.5	---	---	19.5	10.0
5	14.5	3.0	16.0	8.0	25.0	17.0	19.5	8.5	---	---	19.0	10.5
6	16.5	4.0	17.5	8.5	23.0	17.0	21.5	7.0	---	---	19.0	9.5
7	18.0	4.5	18.5	8.5	23.5	16.0	22.5	6.5	---	---	---	---
8	18.5	6.0	20.5	9.5	23.0	16.0	25.0	6.0	---	---	---	---
9	17.5	6.0	20.5	10.5	22.5	16.5	19.0	7.0	---	---	---	---
10	17.0	5.5	15.0	8.5	20.0	14.0	19.0	3.0	---	---	---	---
11	12.0	8.5	17.0	7.0	21.0	14.0	19.0	3.0	---	---	---	---
12	10.0	7.0	18.5	9.0	22.5	13.5	21.5	4.0	---	---	---	---
13	12.0	5.5	20.5	11.5	23.5	14.5	22.5	9.5	---	---	---	---
14	14.0	6.0	14.5	10.5	22.0	14.0	24.0	5.0	---	---	---	---
15	8.0	5.5	19.0	9.0	23.0	12.5	24.0	5.5	---	---	---	---
16	12.5	6.0	17.0	10.0	24.5	13.0	25.0	7.5	---	---	---	---
17	17.0	6.5	17.5	9.5	25.0	14.0	24.0	10.0	---	---	---	---
18	17.5	8.5	16.5	10.5	25.0	14.0	20.5	11.0	---	---	---	---
19	10.5	7.0	16.0	8.5	26.0	13.5	21.0	12.0	21.5	18.5	---	---
20	15.5	5.5	18.0	10.0	21.0	11.5	---	---	21.5	16.0	---	---
21	16.0	6.5	18.5	10.0	22.5	12.0	---	---	21.0	16.0	---	---
22	17.5	7.5	19.5	10.5	26.0	11.0	---	---	21.5	15.0	---	---
23	18.5	7.0	18.5	12.0	28.5	13.0	---	---	21.5	13.5	---	---
24	19.5	9.5	18.5	11.0	27.0	13.5	---	---	21.0	15.0	---	---
25	18.5	9.5	18.0	11.0	25.5	13.5	---	---	21.0	15.0	---	---
26	19.0	10.5	17.0	10.5	26.5	12.5	---	---	20.5	13.0	---	---
27	18.0	11.5	17.5	10.0	26.0	12.5	21.0	17.5	20.0	10.5	---	---
28	16.0	11.5	16.5	10.5	24.0	12.0	24.5	15.5	20.5	10.5	---	---
29	19.5	10.5	17.5	9.0	22.0	8.5	22.5	15.5	20.0	11.5	---	---
30	20.5	11.5	22.5	11.0	25.0	7.0	28.0	13.0	19.5	12.0	---	---
31	---	---	23.5	12.0	---	---	27.0	13.0	19.5	10.5	---	---

09260000 LITTLE SNAKE RIVER NEAR LILY, CO--Continued

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE TIME	OCT 23,76 1330	NOV 17,76 1000	DEC 6,76 1130	FEB 25,77 1030	MAY 25,77 1120
TOTAL CELLS/ML	2700	1300	180	230	870
DIVERSITY: DIVISION	1.4	0.7	0.5	1.2	0.7
..CLASS	1.4	0.7	0.5	1.2	0.7
..ORDER	1.7	1.0	0.9	1.5	1.1
...FAMILY	2.4	2.3	2.1	2.5	1.9
...GENUS	2.6	2.7	2.1	2.6	1.9

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
...CHARACIACEAE										
...SCHROEDERIA	--	-	--	-	--	-	--	-	--	-
...OOCYSTACEAE										
...ANKISTRODESMIJS	120	4	13	1	10	6	4	2	45	5
...DICTYOSPHAERIUM	--	-	--	-	--	-	--	-	--	-
...KIRCHNERIELLA	--	-	--	-	--	-	--	-	--	-
...TREUBARIA	--	-	--	-	--	-	--	-	--	-
...WESTELLA	480#	18	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										
...ACTINASTRUM	--	-	51	4	--	-	--	-	36	4
...SCENEDESMUS	210	8	150	12	8	5	15	7	18	2
...TETRASPORALES										
...PALMELLACEAE										
...SPHAEROCYSTIS	--	-	--	-	--	-	--	-	--	-
...VOLVOCALES										
...CHLAMYDOMONADACEAE										
...CHLAMYDOMONAS	--	-	--	-	--	-	4	2	63	7
...PHACOTACEAE										
...PHACOTUS	--	-	26	2	--	-	--	-	--	-
CHRYSOPHYTA										
..BACILLARIOPHYCEAE										
...CENTRALES										
...COSCINODISCAEAE										
...CYCLOTELLA	210	8	51	4	14	8	8	3	27	3
..PENNALES										
...ACHNANTHACEAE										
...COCCONEIS	--	-	13	1	--	-	--	-	--	-
...CYMBELLACEAE										
...CYMBELLA	--	-	13	1	--	-	--	-	--	-
...EPITHEMIA	--	-	--	-	2	1	4	2	18	2
...RHOPALODIA	--	-	26	2	--	-	--	-	*	0
...DIATOMACEAE										
...DIATOMA	--	-	38	3	--	-	--	-	--	-
...FRAGILARIACEAE										
...SYNEDRA	--	-	--	-	--	-	11	5	18	2
...GOMPHONEMATACEAE										
...GOMPHONEMA	--	-	26	2	6	3	*	0	9	1
...NAVICULACEAE										
...CALONEIS	--	-	--	-	--	-	4	2	9	1
...DIPLONEIS	--	-	--	-	--	-	--	-	--	-
...GYROSIGMA	--	-	13	1	--	-	--	-	--	-
...NAVICULA	570#	21	230#	18	90#	51	34	15	18	2
...NEIDIUM	--	-	13	1	--	-	4	2	--	-
...PINNULARIA	--	-	--	-	--	-	--	-	--	-
...NITZSCHIACEAE										
...CYLINDROTHECA	--	-	51	4	--	-	--	-	--	-
...NITZSCHIA	750#	28	550#	43	39#	22	87#	38	590#	68
...SURIARELLACEAE										
...SURIARELLA	--	-	--	-	6	3	4	2	18	2
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROCOCCOCCALES										
...CHROCOCCOCCAEAE										
...ANACYSTIS	360	13	--	-	--	-	--	-	--	-
...HORMOGONALES										
...NOSTOCACEAE										
...ANABAENA	--	-	--	-	--	-	53#	23	--	-
...ANABAENOPSIS	--	-	--	-	--	-	--	-	--	-

GREEN RIVER BASIN

09260000 LITTLE SHAKE RIVER NEAR LILY, CO--CONTINUED

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE TIME	JUN 28,77 1300	JUL 26,77 1500	AUG 10,77 1010	SEP 7,77 0915				
TOTAL CELLS/ML	1400	0	840	20000				
DIVERSITY: DIVISION	1.1	0.0	0.9	1.1				
..CLASS	1.1	0.0	0.9	1.1				
...ORDER	1.4	0.0	0.9	1.8				
....FAMILY	2.1	0.0	1.6	2.4				
.....GENUS	2.7	0.0	1.6	2.8				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	340	2
....ODCYSTACEAE								
....ANKISTRODESMUS	43	3	--	-	240#	29	850	4
....DICTYOSPHAERIUM	180	13	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	170	1
....TREUBARIA	160	11	--	-	--	-	5000#	25
....WESTELLA	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	500#	36	--	-	360#	43	2600	13
....SCENEDESMUS	52	4	--	-	--	-	1200	6
...TETRASPORALES								
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	2100	11
...VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	82	6	--	-	--	-	--	-
...PHACOTACEAE								
....PHACOTUS	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCEACEAE								
....CYCLOTELLA	--	-	--	-	--	-	--	-
...PENNALES								
...ACMANTHACEAE								
....COCCONEIS	--	-	--	-	--	-	--	-
...CYMBELLACEAE								
....CYMBELLA	--	-	--	-	--	-	--	-
....EPITHEMIA	--	-	--	-	--	-	--	-
....RHOPALODIA	--	-	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	--	-	--	-	--	-	--	-
...FRAGILARIACEAE								
....SYNEDRA	230#	16	--	-	--	-	340	2
...GOMPHONEMACEAE								
....GOMPHONEMA	--	-	--	-	--	-	--	-
...NAVICULACEAE								
....CALONEIS	--	-	--	-	--	-	--	-
....DIPLONEIS	9	1	--	-	--	-	--	-
....GYROSIGMA	--	-	--	-	--	-	--	-
....NAVICULA	9	1	--	-	--	-	*	0
....NEIDIUM	--	-	--	-	--	-	--	-
....PINNULARIA	13	1	--	-	--	-	--	-
...NITZSCHACEAE								
....CYLINDROTHECA	--	-	--	-	--	-	--	-
....NITZSCHIA	--	-	--	-	--	-	--	-
...SURIRELLACEAE								
....SURIRELLA	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROCOCCOCCALES								
...CHROCOCCOCCAEAE								
....ANACYSTIS	--	-	--	-	240#	29	3100#	16
...HORMOGONALES								
...NOSTOCACEAE								
....ANABAEVA	110	8	--	-	--	-	--	-
....ANABAEVOPSIS	--	-	--	-	--	-	4200#	21

09302450 LOST CREEK NEAR BUFORD, CO

LOCATION (REVISED)--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 (5 m) downstream from highway bridge, 540 ft (165 m) upstream from mouth, 0.5 mi (0.8 km) downstream from Long Park Creek, and 9 mi (14 km) northeast of Buford.

DRAINAGE AREA--21.6 mi² (55.9 km²).

PERIOD OF RECORD--October 1964 to current year.

GAGE--water-stage recorder. Altitude of gage is 7,560 ft (2,304 m), from topographic map. Oct. 1, 1973, to Sept. 30, 1975, at site 150 ft (46 m) upstream at same datum.

REMARKS--Records good except those for period of no gage-height record, which are fair. No diversion above station.

AVERAGE DISCHARGE--13 years, 20.7 ft³/s (0.5862 m³/s), 15,000 acre-ft/yr (18.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 944 ft³/s (26.7 m³/s) May 9, 1974, gage height, 7.53 ft (2.295 m), from rating curve extended above 260 ft³/s (7.4 m³/s); minimum daily, 0.30 ft³/s (0.008 m³/s) Jun. 9, 1977.

EXTREMES FOR CURRENT YEAR--Maximum discharge, 88 ft³/s (2.49 m³/s) May 14, gage height, 2.52 ft (0.768 m), no peak above base of 150 ft³/s (4.2 m³/s); minimum daily, 0.30 ft³/s (0.008 m³/s) Jan. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.3	1.2	1.2	1.8	2.0	2.6	43	9.0	.99	.60	.79
2	1.8	1.3	1.6	1.2	1.8	2.0	2.5	36	8.4	1.1	.54	.73
3	2.6	1.3	1.9	1.1	1.8	2.0	2.4	34	7.6	1.1	.60	.73
4	2.8	1.3	2.0	1.0	1.8	2.0	2.5	27	6.8	1.1	.54	.86
5	2.4	1.3	2.0	.80	1.8	2.1	2.5	24	6.3	1.4	1.1	.79
6	2.4	1.3	2.0	.50	1.8	2.1	3.0	24	6.3	1.4	1.2	.73
7	2.2	1.3	2.0	.50	1.8	2.2	3.8	25	6.3	1.1	.79	.73
8	2.2	1.3	2.0	.40	1.8	2.2	4.8	24	5.6	.99	.66	.66
9	2.4	1.4	2.0	.30	1.8	2.1	5.8	23	5.6	.93	.66	.66
10	2.4	1.4	2.0	.50	1.8	2.1	6.8	20	5.2	.86	.60	.66
11	2.3	1.2	2.0	.80	1.8	2.1	11	14	4.2	.79	.54	1.1
12	2.2	1.0	2.1	.90	1.8	2.1	16	14	3.7	.73	.54	1.2
13	2.2	1.1	2.1	.90	1.8	2.1	14	13	3.4	.93	.54	1.2
14	2.2	1.1	2.1	1.0	1.8	2.2	12	16	2.8	1.2	.54	1.1
15	2.1	1.2	2.1	1.2	1.8	2.3	11	25	2.8	1.1	.60	1.2
16	2.1	1.4	2.1	1.4	1.8	2.3	13	38	2.5	.86	.79	1.3
17	2.2	1.6	2.1	1.5	1.8	2.4	21	34	2.2	.79	.93	.93
18	2.1	1.8	2.1	1.6	1.8	2.5	36	30	2.0	.79	1.4	.86
19	1.6	1.8	2.1	1.8	1.9	2.4	30	23	1.8	.86	1.2	.86
20	1.7	1.8	2.1	1.8	1.9	2.4	21	20	1.6	1.1	.93	.86
21	1.8	1.8	2.1	1.8	2.0	2.4	27	18	1.4	.99	.86	.86
22	1.8	1.8	2.1	1.8	2.0	2.4	40	16	1.4	.99	.79	.90
23	1.8	1.8	2.0	1.8	1.9	3.0	50	15	1.4	1.1	.79	1.3
24	1.8	1.8	1.8	1.8	1.7	3.1	54	13	1.4	1.1	.79	1.2
25	1.6	1.8	1.6	1.8	1.6	3.0	52	12	1.7	1.4	1.8	1.2
26	1.0	1.6	1.6	1.8	1.6	3.0	52	13	1.7	1.1	1.2	1.1
27	1.2	.40	1.6	1.8	1.7	3.2	51	13	1.4	.86	1.5	1.1
28	1.3	.50	1.6	1.8	1.8	3.0	60	15	1.3	.79	1.5	1.1
29	1.3	.60	1.6	1.8	---	2.8	53	14	1.2	.73	1.1	1.1
30	1.3	.90	1.6	1.8	---	2.6	50	11	1.1	.73	.93	1.1
31	1.3	---	1.6	1.8	---	2.7	---	9.8	---	.60	.79	---
TOTAL	59.8	40.20	58.8	40.20	50.5	74.8	710.7	656.8	108.1	30.51	27.35	28.91
MEAN	1.93	1.34	1.90	1.30	1.80	2.41	23.7	21.2	3.60	.98	.88	.96
MAX	2.8	1.8	2.1	1.8	2.0	3.2	60	43	9.0	1.4	1.8	1.3
MIN	1.0	.40	1.2	.30	1.6	2.0	2.4	9.8	1.1	.60	.54	.66
AC-FT	119	80	117	80	100	148	1410	1300	214	61	54	57
CAL YR 1976	TOTAL	5486.80	MEAN	15.0	MAX	183	MIN	.40	AC-FT	10880		
WTR YR 1977	TOTAL	1886.67	MEAN	5.17	MAX	60	MIN	.30	AC-FT	3740		

09302500 MARVINE CREEK NEAR BUFORD, CO

LOCATION (REVISED).--Lat 40°02'18", long 107°29'15", in NE¼SE¼ sec.21, T.1 N., R.90 W., Rio Blanco County, Hydrologic Unit 14050005, on right bank 166 ft (50 m) upstream from county road bridge, 1,800 ft (550 m) upstream from mouth, and 8 mi (13 km) northeast of Buford. Prior to Oct. 1, 1975, at site 126 ft (38 m) downstream.

DRAINAGE AREA.--59.4 mi² (153.8 km²).

PERIOD OF RECORD.--July 1903 to September 1906, September 1972 to current year.

REVISED RECORDS.--WSP 1313: 1905-6.

GAGE.--Water-stage recorder. Altitude of gage is 7,500 ft (2,286 m), from topographic map. July 28, 1903, to Sept. 30, 1906, nonrecording gage at approximately same site at different datum. Sept. 1, 1972, to Sept. 30, 1973, at site 40 ft (12 m) downstream at datum 1.69 ft (0.515 m) higher. Oct. 1, 1973, to Sept. 30, 1975, at site 126 ft (38 m) downstream at datum 5.0 ft (1.5 m) higher.

REMARKS.--Records good except those for winter period, which are fair. Diversions above station for irrigation of 310 acres (1.25 km²) of hay meadows. One small transbasin diversion above station to Ute Creek basin.

AVERAGE DISCHARGE.--3 years, 95.4 ft³/s (2.702 m³/s), 69,120 acre-ft/yr (85.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 723 ft³/s (20.5 m³/s) June 17, 1905, gage height, 3.50 ft (1.067 m), datum then in use; maximum gage height recorded, 5.39 ft (1.643 m), Dec. 17, 1972, site then in use (backwater from ice); minimum discharge not determined, probably occurred during period of no gage-height record.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 205 ft³/s (5.81 m³/s) June 1, gage height, 3.06 ft (0.933 m), no peak above base of 300 ft³/s (8.5 m³/s); minimum daily, 37 ft³/s (1.05 m³/s) Jan. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	55	56	48	86	39	48	74	141	76	41	42
2	60	56	56	48	84	40	48	85	139	69	42	42
3	66	56	56	48	84	41	48	75	137	65	41	43
4	62	56	56	43	82	42	49	63	139	60	41	42
5	60	55	56	40	80	45	50	56	125	49	48	42
6	60	52	55	40	78	51	54	60	113	50	40	39
7	60	52	57	40	78	50	59	66	104	50	40	39
8	59	51	60	38	78	49	60	75	94	50	42	41
9	56	50	62	37	78	48	62	88	94	50	45	41
10	56	50	65	40	78	47	62	90	90	50	51	40
11	56	49	67	45	78	46	59	69	82	48	49	48
12	58	50	69	50	78	45	55	65	81	45	45	43
13	58	52	72	52	78	46	50	51	76	45	44	42
14	62	54	76	54	78	48	52	58	70	48	45	42
15	62	52	62	54	78	51	52	60	70	45	45	45
16	62	55	57	54	78	50	56	88	68	41	48	43
17	62	55	50	60	80	49	63	80	66	41	46	42
18	62	56	52	68	80	49	69	82	63	41	52	42
19	59	56	52	70	82	48	63	76	63	45	50	42
20	60	56	52	70	84	48	55	72	63	52	48	42
21	58	56	51	76	80	47	55	68	65	59	46	42
22	56	56	51	78	56	47	60	65	62	52	46	42
23	56	58	50	80	48	46	66	55	62	50	44	45
24	56	63	50	83	47	45	68	59	55	51	44	43
25	58	59	50	86	38	44	68	74	51	54	59	43
26	58	59	50	88	36	44	69	60	55	45	45	42
27	55	40	49	88	36	44	69	63	51	46	51	42
28	55	43	49	88	38	44	70	62	52	46	48	42
29	55	47	48	86	---	46	65	63	54	44	45	42
30	55	50	48	86	---	46	69	72	60	44	44	42
31	55	---	48	86	---	46	---	99	---	42	43	---
TOTAL	1816	1599	1732	1924	1979	1431	1773	2173	2445	1553	1418	1267
MEAN	58.6	53.3	55.9	62.1	70.7	46.2	59.1	70.1	81.5	50.1	45.7	42.2
MAX	66	63	76	88	86	51	70	99	141	76	59	48
MIN	55	40	48	37	36	39	48	51	51	41	40	39
AC-FT	3600	3170	3440	3820	3930	2840	3520	4310	4850	3080	2810	2510
CAL YR 1976	TOTAL	27315	MEAN 74.6	MAX 243	MIN 40	AC-FT	54180					
WTR YR 1977	TOTAL	21110	MEAN 57.8	MAX 141	MIN 36	AC-FT	41870					

NOTE.--NO GAGE-HEIGHT RECORD JAN. 12 TO FEB. 24.

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 (180 m) east of Buford and 1.2 mi (1.9 km) upstream from South Fork White River.

DRAINAGE AREA.--254 mi² (658 km²).

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 0.5 mi (10.5 km) upstream not equivalent because of inflow between sites.

REVISED RECORDS.--WSP 1343: 1912. WSP 1513: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,010 ft (2,137 m), from topographic map. May 24, 1910, to May 27, 1914, nonrecording gage at site 1.5 mi (2.4 km) 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.--Records good except those for period of no gage-height record, which are fair. Diversions above station for irrigation of about 900 acres (3.64 km²) above and 300 acres (1.21 km²) below station.

AVERAGE DISCHARGE.--32 years (water years 1911-15, 1920, 1952-77), 306 ft³/s (8.666 m³/s), 221,700 acre-ft/yr (273 nm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,150 ft³/s (89.2 m³/s) May 30, 1912; maximum gage height, 7.22 ft (2.201 m) Jan. 9, 1961 (backwater from ice); minimum daily discharge, 90 ft³/s (2.55 m³/s) Feb. 21, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 511 ft³/s (14.5 m³/s) May 8, gage height, 4.85 ft (1.478 m), no peak above base of 1,000 ft³/s (28 m³/s); minimum daily, 96 ft³/s (2.72 m³/s) Jan. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	178	151	130	130	110	125	140	350	326	160	109	120
2	178	149	130	130	110	126	138	303	350	147	112	116
3	192	155	130	125	110	126	136	334	366	139	113	120
4	189	155	130	120	110	130	134	275	386	134	113	118
5	178	153	130	115	110	128	134	244	382	128	132	113
6	176	151	130	100	110	128	139	296	370	126	123	111
7	173	149	135	100	110	128	155	338	338	119	116	110
8	173	147	140	100	110	126	176	374	310	113	113	108
9	169	147	145	95	110	126	202	394	306	114	116	108
10	164	145	145	115	110	126	216	354	275	111	118	108
11	162	143	145	130	110	128	205	264	244	111	115	122
12	162	137	145	130	115	130	189	264	212	108	113	132
13	162	157	145	130	115	130	164	254	189	110	113	119
14	162	151	145	130	115	130	157	286	176	112	114	115
15	162	147	145	130	120	130	157	289	169	106	115	123
16	150	157	140	130	120	130	155	334	162	104	128	119
17	160	157	130	130	120	132	197	346	155	103	125	111
18	155	151	130	130	120	134	247	334	145	104	145	113
19	149	149	130	130	120	136	219	289	145	107	143	109
20	157	149	130	125	120	138	169	258	160	121	131	108
21	157	149	130	125	120	138	171	240	153	120	126	108
22	157	155	130	120	120	138	212	222	145	117	126	106
23	157	155	130	120	120	139	261	230	143	115	122	114
24	157	149	130	120	120	139	282	233	134	114	121	112
25	155	151	130	115	120	139	306	244	130	122	171	113
26	157	153	130	115	120	137	306	222	128	106	135	111
27	151	130	130	110	125	137	318	219	125	105	169	109
28	151	100	130	110	125	143	342	230	122	106	157	111
29	162	115	130	110	---	137	326	233	123	106	139	111
30	157	130	130	110	---	139	354	222	134	107	130	112
31	155	---	130	110	---	140	---	261	---	106	123	---
TOTAL	5077	4387	4160	3691	3245	4113	6307	8736	6503	3501	3926	3412
MEAN	164	146	134	119	116	133	210	282	217	116	127	114
MAX	192	157	145	130	125	143	354	394	386	160	171	132
MIN	149	103	130	96	110	125	134	219	122	103	109	108
AC-FT	10070	8700	8250	7320	6440	8160	12510	17330	12900	7140	7790	6770

CAL YR 1976 TOTAL 87211 MEAN 238 MAX 768 MIN 100 AC-FT 173000
WTR YR 1977 TOTAL 57158 MEAN 157 MAX 394 MIN 96 AC-FT 113400

NOTE.--NO GAGE-HEIGHT RECORD DEC. 20 TO MAR. 3.

GREEN RIVER BASIN

09303000 NORTH FORK WHITE RIVER AT BUFORD, CU--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to September 1977 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)
OCT									
29...	1320	145	400	8.2	3.0	11.1	--	170	76
NOV									
29...	1315	162	380	8.2	.5	--	--	180	56
DEC									
09...	1245	145	300	8.4	.0	11.4	--	170	85
JAN									
10...	1015	136	340	7.0	.0	11.0	22	190	89
FEB									
03...	1100	111	380	8.5	1.0	12.1	0	180	88
MAR									
24...	1245	139	320	8.6	6.0	--	20	180	82
APR									
15...	1330	197	315	8.2	4.0	9.8	9	170	78
MAY									
26...	1145	219	--	8.4	7.5	8.9	--	140	62
JUN									
22...	1415	147	320	8.2	16.0	--	--	180	--
JUL									
22...	1130	118	350	7.8	13.0	--	--	180	84
AUG									
29...	1130	139	370	8.1	11.0	8.7	--	180	84
SEP									
26...	1030	111	345	7.9	8.5	9.0	--	190	90

DATE	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT									
29...	51	9.9	3.2	.1	1.2	112	0	92	75
NOV									
29...	55	11	2.9	.1	1.1	106	0	87	91
DEC									
09...	51	10	3.1	.1	1.1	102	0	84	83
JAN									
10...	60	9.5	3.9	.1	1.3	122	0	100	99
FEB									
03...	57	10	4.0	.1	1.2	117	0	96	93
MAR									
24...	54	9.9	3.1	.1	1.0	108	3	94	86
APR									
15...	52	9.3	3.2	.1	1.2	110	0	90	80
MAY									
26...	42	7.4	2.5	.1	1.0	90	0	74	61
JUN									
22...	55	9.2	5.9	.2	1.2	--	0	--	87
JUL									
22...	55	10	3.1	.1	1.1	110	0	90	97
AUG									
29...	55	10	3.6	.1	1.1	110	0	90	92
SEP									
26...	59	10	3.5	.1	1.1	120	0	98	97

09303000 NORTH FORK WHITE RIVER AT BJFJRD, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
OCT 29...	.6	.1	16	213	.07	.04	.00	.00	.03
NOV 29...	.8	.2	17	232	.17	.00	.11	.11	.03
DEC 09...	.6	.1	16	216	.16	.00	.22	.22	.03
JAN 10...	.9	.1	21	257	.24	.00	.22	.22	.05
FEB 03...	.8	.1	20	245	.16	.09	2.4	2.5	.04
MAR 24...	.8	.1	18	229	.04	.00	.18	.18	.01
APR 15...	.9	.1	17	218	.08	.01	.53	.54	.02
MAY 26...	.5	.1	17	176	.07	.00	.00	.00	.03
JUN 22...	.5	.1	18	--	.03	.01	.00	.01	.05
JUL 22...	--	.1	17	--	.08	.01	.04	.05	.02
AUG 29...	.6	.1	18	235	.03	.01	.12	.13	.04
SEP 26...	.6	.1	18	249	.02	.01	.00	.00	.02

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)
OCT 29...	1320	0	30	2	10	.0	0	2.4
JAN 10...	1015	3	50	3	20	.0	0	1.6
MAY 26...	1145	0	80	1	0	.0	0	3.7
AUG 29...	1130	0	10	6	0	.0	0	3.1

GREEN RIVER BASIN

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 (6 m) upstream from Forest Service trail bridge, 0.2 mi (0.3 km) upstream from Wagonwheel Creek, and 0.3 mi (0.5 km) northeast of Budge's Resort. Prior to July 7, 1976, at site on left bank 50 ft (15 m) upstream at datum 1.3 ft (0.396 m) lower.

DRAINAGE AREA.--50.4 mi² (130.5 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 8,980 ft (2,737 m), from topographic map. June 1, 1975, to July 7, 1976, at site on left bank 50 ft (15 m) upstream at datum 1.3 ft (0.396 m) lower.

REMARKS.--Records fair except those for winter period, which are poor. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,010 ft³/s (28.6 m³/s) June 29, 1975; minimum daily, 21 ft³/s (0.59 m³/s) Sept. 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 147 ft³/s (4.16 m³/s) May 29, gage height, 4.33 ft (1.320 m); minimum daily, 21 ft³/s (0.59 m³/s) Sept. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	44	40	50	52	46	38	63	123	56	45	32
2	45	44	40	50	50	44	38	71	115	55	45	31
3	47	43	40	50	52	44	38	66	96	55	44	31
4	47	44	40	45	55	45	38	59	83	55	44	30
5	46	44	40	40	51	48	38	62	73	54	44	30
6	45	44	40	40	49	51	38	71	70	54	44	29
7	45	43	40	39	53	47	41	81	72	53	43	29
8	45	43	40	36	61	45	43	116	69	53	44	29
9	45	44	40	34	60	44	50	116	69	52	43	28
10	44	44	42	37	57	43	52	112	69	52	43	28
11	44	44	43	39	48	43	50	107	69	52	42	31
12	44	46	45	41	46	45	47	101	68	52	41	30
13	45	43	58	43	46	45	44	105	65	51	40	28
14	45	43	59	43	45	45	45	77	60	51	40	27
15	45	45	51	43	46	46	44	76	63	50	40	28
16	44	44	52	43	44	45	46	75	62	50	42	26
17	44	46	53	43	43	44	51	75	62	50	40	26
18	44	44	54	43	43	44	55	75	61	49	41	25
19	46	44	54	43	44	43	49	74	61	49	40	25
20	46	45	54	43	44	43	47	74	60	49	38	25
21	45	47	54	44	45	40	52	74	60	49	38	24
22	45	48	54	45	44	40	55	74	59	48	37	23
23	44	47	54	47	44	39	59	73	59	48	36	24
24	44	49	54	49	44	38	63	82	58	47	35	23
25	45	49	54	50	44	38	59	77	58	47	38	23
26	45	44	54	50	44	38	60	73	58	47	36	22
27	46	35	54	51	44	38	60	72	57	47	39	22
28	47	35	54	52	45	38	58	72	57	46	37	22
29	46	40	54	53	---	38	61	107	57	46	35	21
30	44	40	52	53	---	38	67	128	56	45	33	21
31	44	---	50	53	---	38	---	132	---	45	33	---
TOTAL	1396	1315	1513	1392	1343	1323	1486	2620	2049	1557	1240	793
MEAN	45.0	43.8	48.8	44.9	48.0	42.7	49.5	84.5	68.3	50.2	40.0	26.4
MAX	47	49	59	53	61	51	67	132	123	56	45	32
MIN	44	35	40	34	43	38	38	59	56	45	33	21
AC-FT	2770	2610	3000	2760	2660	2620	2950	5200	4060	3090	2460	1570

CAL YR 1976 TOTAL 32037 MEAN 87.5 MAX 566 MIN 35 AC-FT 63550
WTR YR 1977 TOTAL 18027 MEAN 49.4 MAX 132 MIN 21 AC-FT 35760

NOTE.--NO GAGE-HEIGHT RECORD NOV. 26 TO APR. 9.

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 (18 m) upstream from mouth and confluence of South Fork White River, about 800 ft (240 m) downstream from private road bridge, and 0.2 mi (0.3 km) north-northeast of Budge's Resort.

DRAINAGE AREA.--7.42 mi² (19.22 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 8,980 ft (2,737 m), from topographic map.

REMARKS.--Records fair except those for period of no gage-height record, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 180 ft³/s (5.10 m³/s) June 24, 1975, gage height, 4.10 ft (1.250 m); no flow many days in 1976, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 55 ft³/s (1.56 m³/s) May 31, gage height, 3.35 ft (1.021 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.53	.35	.00	.10	.00	.00	.00	1.9	45	1.8	.50	.17
2	.53	.35	.00	.10	.00	.00	.00	2.2	43	2.1	.50	.14
3	.53	.35	.00	.10	.00	.00	.00	2.8	39	1.9	.50	.14
4	.49	.35	.00	.08	.00	.00	.00	2.6	34	1.8	.50	.12
5	.49	.35	.10	.06	.00	.00	.00	4.1	31	2.0	.50	.12
6	.49	.35	.10	.04	.00	.00	.00	6.1	28	1.7	.50	.11
7	.49	.35	.10	.02	.00	.00	.00	17	25	1.6	.50	.11
8	.49	.35	.10	.00	.00	.00	.00	27	23	1.3	.50	.11
9	.49	.35	.10	.00	.00	.00	.00	40	21	1.4	.46	.11
10	.46	.35	.10	.00	.00	.00	.00	44	18	1.2	.42	.11
11	.46	.35	.10	.00	.00	.00	.00	41	16	1.2	.42	.10
12	.41	.35	.10	.00	.00	.00	.00	36	14	1.2	.39	.10
13	.35	.35	.10	.00	.00	.00	.00	42	13	1.2	.38	.09
14	.35	.35	.10	.00	.00	.00	.00	41	12	1.1	.35	.09
15	.35	.35	.10	.00	.00	.00	.00	31	11	1.1	.35	.09
16	.35	.30	.10	.00	.00	.00	.00	29	9.3	1.1	.33	.09
17	.35	.20	.10	.00	.00	.00	.00	26	8.2	1.1	.33	.08
18	.35	.10	.10	.00	.00	.00	.00	25	7.2	1.0	.30	.08
19	.35	.15	.10	.00	.00	.00	.01	22	6.6	1.0	.30	.07
20	.35	.25	.10	.00	.00	.00	.01	21	5.6	1.1	.28	.07
21	.35	.30	.10	.00	.00	.00	.02	20	5.4	1.6	.28	.06
22	.35	.35	.10	.00	.00	.00	.02	22	4.6	1.1	.26	.06
23	.35	.35	.10	.00	.00	.00	.02	28	4.4	.88	.26	.06
24	.35	.35	.10	.00	.00	.00	.02	32	4.6	.82	.26	.06
25	.35	.35	.10	.00	.00	.00	.02	34	4.0	.82	.24	.06
26	.35	.20	.10	.00	.00	.00	.05	33	3.4	.76	.24	.05
27	.35	.00	.10	.00	.00	.00	.08	30	2.0	.76	.21	.05
28	.35	.00	.10	.00	.00	.00	1.4	31	2.5	.70	.21	.05
29	.35	.00	.10	.00	---	.00	1.6	30	2.4	.50	.19	.05
30	.35	.00	.10	.00	---	.00	1.9	36	2.2	.50	.19	.04
31	.35	---	.10	.00	---	.00	---	43	---	.50	.17	---
TOTAL	12.51	8.15	2.70	.50	.00	.00	5.15	800.7	445.4	36.84	10.82	2.64
MEAN	.40	.27	.087	.016	.000	.000	.17	25.8	14.8	1.19	.35	.088
MAX	.53	.35	.10	.10	.00	.00	1.9	44	45	2.1	.50	.17
MIN	.35	.00	.00	.00	.00	.00	.00	1.9	2.0	.50	.17	.04
AC-FT	25	16	5.4	1.0	.00	.00	10	1590	883	73	21	5.2

CAL YR 1976 TOTAL 1522.91 MEAN 4.16 MAX 100 MIN .00 AC-FT 3020
WTR YR 1977 TOTAL 1325.41 MEAN 3.63 MAX 45 MIN .00 AC-FT 2630

NOTE.--NO GAGE-HEIGHT RECORD NOV. 26 TO APR. 27.

09303340 PATTERSON CREEK NEAR BUDGE'S RESORT, CO

LOCATION.--Lat 39°48'52", long 107°23'33", in SW¼SW¼ sec.4, T-3 S., R-89 W., Garfield County, Hydrologic Unit 14050005, on left bank 1.1 mi (1.77 km) upstream from mouth and 3.2 mi (5.15 km) southwest of Budge's Resort.

DRAINAGE AREA.--13.0 mi² (33.7 km²).

PERIOD OF RECORD.--June 1975 to September 1977 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 9,200 ft (2,804 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. No diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 170 ft³/s (4.81 m³/s) June 27, 1976; maximum recorded gage height, 4.96 ft (1.512 m), June 26, 1975 (from discharge measurement); minimum daily discharge, 2.0 ft³/s (0.057 m³/s) Nov. 28, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 30 ft³/s (0.85 m³/s) May 31, gage height, 3.98 ft (1.213 m), from floodmark, no peak above base of 50 ft³/s (1.4 m³/s); minimum daily, 2.0 ft³/s (0.057 m³/s) Nov. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	4.7	2.2	2.5	2.5	2.6	3.0	6.6	23	5.2	3.9	4.2
2	3.8	4.8	2.2	2.5	2.5	2.6	3.0	6.6	22	5.1	3.8	4.2
3	3.8	4.7	2.2	2.2	2.5	2.6	3.0	6.8	20	4.9	3.8	4.2
4	3.8	4.7	2.3	2.2	2.5	2.7	3.0	6.6	19	4.8	3.9	4.2
5	3.8	4.8	2.3	2.2	2.5	2.7	3.0	6.4	18	4.9	4.0	4.2
6	3.9	4.8	2.4	2.2	2.5	2.7	3.4	7.2	18	4.8	4.0	4.2
7	4.0	4.8	2.4	2.2	2.5	2.8	3.4	8.4	18	4.6	3.8	4.2
8	4.2	4.7	2.5	2.2	2.5	2.8	3.4	13	18	4.5	3.8	4.2
9	4.4	4.7	2.5	2.2	2.5	2.8	3.4	13	18	4.4	3.8	4.2
10	4.5	4.7	2.5	2.2	2.5	2.8	3.4	12	18	4.4	3.8	4.2
11	4.7	4.6	2.5	2.2	2.5	2.9	3.5	12	18	4.3	3.8	4.5
12	4.8	4.6	2.5	2.3	2.5	2.9	3.6	12	18	4.2	3.8	4.8
13	4.8	4.7	2.5	2.4	2.5	3.0	3.7	10	18	4.2	3.8	4.7
14	4.8	4.7	2.5	2.5	2.5	3.0	3.9	8.0	17	4.3	3.8	4.5
15	4.8	4.6	2.5	2.5	2.5	3.0	3.9	8.0	16	4.2	3.9	5.2
16	4.8	4.6	2.5	2.5	2.5	3.0	3.9	8.0	15	4.1	4.1	5.2
17	4.8	4.7	2.5	2.5	2.5	3.0	4.1	8.0	13	4.1	4.1	5.0
18	4.7	4.7	2.5	2.5	2.5	3.0	4.0	8.0	12	4.1	4.2	4.8
19	4.7	4.7	2.5	2.5	2.5	3.0	3.3	8.0	11	4.2	4.2	4.7
20	4.7	4.7	2.5	2.5	2.5	3.0	3.8	8.0	9.8	4.3	4.1	4.6
21	4.8	4.6	2.5	2.5	2.5	3.0	4.0	8.2	9.1	4.6	4.1	4.7
22	4.8	4.5	2.5	2.5	2.5	3.0	4.5	8.4	8.6	4.3	4.1	4.7
23	4.8	4.6	2.5	2.5	2.5	3.0	4.7	9.0	8.2	4.2	4.1	4.9
24	4.7	4.5	2.5	2.5	2.5	3.0	5.0	9.0	8.2	4.2	4.1	4.9
25	4.7	4.5	2.5	2.5	2.5	3.0	5.0	8.5	7.7	4.2	4.4	4.8
26	4.8	3.4	2.5	2.5	2.5	3.0	5.0	8.4	7.2	4.2	4.3	4.8
27	4.8	2.7	2.5	2.5	2.5	3.0	5.0	8.2	6.8	4.1	4.6	4.8
28	4.7	2.0	2.5	2.5	2.5	3.0	5.0	10	6.6	4.1	4.6	4.7
29	4.8	2.1	2.5	2.5	---	3.0	5.6	15	6.0	4.0	4.5	4.8
30	4.8	2.1	2.5	2.5	---	3.0	6.2	20	5.5	3.9	4.3	4.8
31	4.7	---	2.5	2.5	---	3.0	---	25	---	3.9	4.2	---
TOTAL	140.0	129.0	76.0	74.5	70.0	89.9	119.7	306.3	413.7	135.3	125.7	137.9
MEAN	4.52	4.30	2.45	2.40	2.50	2.90	3.99	9.88	13.8	4.36	4.05	4.60
MAX	4.8	4.8	2.5	2.5	2.5	3.0	6.2	25	23	5.2	4.6	5.2
MIN	3.8	2.0	2.2	2.2	2.5	2.6	3.0	6.4	5.5	3.9	3.8	4.2
AC-FT	278	256	151	148	139	178	237	608	821	268	249	274

CAL YR 1976 TOTAL 8376.2 MEAN 22.9 MAX 197 MIN 2.0 AC-FT 16610
WTR YR 1977 TOTAL 1818.0 MEAN 4.98 MAX 25 MIN 2.0 AC-FT 3610

NOTE.--NO GAGE-HEIGHT RECORD NOV. 25 to APR. 13, APR. 20 TO JUNE 14.

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 14050205, on right bank on downstream side of Forest Service bridge, 300 ft (91 m) upstream from South Fork Campground, 10 mi (16.1 km) above mouth, and about 10.5 mi (17 km) southeast of Buford.

DRAINAGE AREA.--128 mi² (332 km²).

PERIOD OF RECORD.--May 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,600 ft (2,316 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record, which are fair. No regulation or diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,240 ft³/s (35.1 m³/s) June 3, 1976, gage height, 4.75 ft (1.448 m); minimum daily, 46 ft³/s (1.30 m³/s) Jan. 25, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s (14 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
May 9	2300	641 18.2	4.08 1.244	June 1	0100	*896 25.1	4.36 1.329

Minimum daily discharge, 46 ft³/s (1.30 m³/s) Jan. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	66	67	70	66	75	51	160	645	76	57	55
2	74	65	70	69	66	69	50	152	566	75	55	53
3	83	64	72	68	66	68	55	183	524	73	55	55
4	81	64	72	68	66	67	59	156	454	73	56	55
5	77	63	72	66	66	67	48	136	369	76	71	55
6	78	62	72	66	66	73	50	157	316	75	65	54
7	75	61	72	66	66	70	57	248	267	71	58	53
8	76	60	75	66	66	68	63	379	246	68	57	52
9	75	60	83	68	66	61	75	508	265	66	57	52
10	74	60	90	70	67	57	84	501	215	66	54	52
11	73	60	70	72	67	58	81	383	180	64	52	71
12	73	62	70	72	68	58	70	370	161	64	51	79
13	70	68	70	72	68	59	60	360	146	64	51	69
14	72	64	70	72	68	59	57	412	135	71	51	64
15	72	60	70	72	68	61	60	276	126	65	52	72
16	71	61	78	71	69	61	58	258	119	64	60	68
17	71	63	80	70	69	62	71	240	113	62	59	65
18	69	64	77	70	69	65	87	230	108	63	65	63
19	71	64	72	70	69	66	82	218	106	64	65	62
20	71	64	71	70	69	61	68	209	103	71	59	61
21	72	64	70	70	69	57	68	200	99	79	58	61
22	70	64	70	70	68	60	82	202	97	87	57	59
23	70	64	70	64	68	58	92	262	94	73	54	66
24	69	64	70	52	68	56	102	336	96	75	54	64
25	68	64	70	46	68	54	104	369	97	74	68	63
26	68	56	70	51	69	53	104	343	92	68	50	61
27	71	52	70	58	69	54	107	283	86	64	73	60
28	72	57	70	62	69	59	112	284	83	64	72	57
29	72	58	70	63	---	59	122	275	79	61	62	57
30	72	64	70	64	---	63	141	357	78	60	59	57
31	66	---	70	64	---	68	---	558	---	58	56	---
TOTAL	2249	1862	2243	2052	1893	1926	2320	9005	6065	2134	1823	1815
MEAN	72.5	62.1	72.4	66.2	67.6	62.1	77.3	290	202	68.8	58.8	60.5
MAX	83	68	90	72	69	75	141	558	645	87	73	79
MIN	66	52	67	46	66	53	48	136	78	58	51	52
AC-FT	4460	3690	4450	4070	3750	3820	4600	17860	12030	4230	4470	3600

WTR YR 1977 TOTAL 35387 MEAN 97.0 MAX 645 MIN 46 AC-FT 70190

NOTE.--NO GAGE-HEIGHT RECORD OCT. 26 TO DEC. 3.

GREEN RIVER BASIN

09303500 SOUTH FORK WHITE RIVER NEAR BUFORD, CO

LOCATION.--Lat 39°55'18", long 107°33'04", in NW¼Sec. 36, T.1 S., R.91 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank at upstream side of county bridge, 10 ft (3 m) downstream from Peltier Creek, and 5.6 mi (9.0 km) southeast of Buford.

DRAINAGE AREA.--157 mi² (407 km²).

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.

GAGE.--Water-stage recorder. Altitude of gage is 7,480 ft (2,280 m), 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 (18 m) upstream at different datums. Records for 1919-20 at site 6.0 mi (9.7 km) downstream not equivalent.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 600 acres (2.43 km²) of hay meadows above station.

AVERAGE DISCHARGE.--23 years (water years 1904-6, 1911-15, 1943-47, 1968-77), 256 ft³/s (7,250 m³/s), 185,500 acre-ft/yr (229 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 3,230 ft³/s (91.5 m³/s) June 17, 1906, gage height, 8.2 ft (2.50 m), site and datum then in use, from rating curve extended above 1,600 ft³/s (45 m³/s); minimum discharge recorded, 56 ft³/s (1.59 m³/s) Dec. 18, 1946, gage height, 1.01 ft (0.308 m), site and datum then in use, but may have been less during periods of no gage-height record.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 776 ft³/s (22.0 m³/s) June 1, gage height, 4.68 ft (1.426 m), no peak above base of 1,200 ft³/s (34 m³/s); minimum daily, 61 ft³/s (1.73 m³/s) Jan. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	93	88	82	78	103	88	201	566	107	79	82
2	106	93	84	82	78	89	85	192	500	105	79	79
3	108	94	88	82	78	93	87	219	482	102	78	83
4	110	93	87	82	78	91	88	206	437	102	79	82
5	112	93	91	78	78	93	85	181	354	107	93	79
6	105	91	97	76	78	108	90	189	315	105	91	77
7	105	93	91	74	78	107	97	252	270	101	85	77
8	105	91	94	74	78	100	103	388	252	97	82	77
9	102	90	90	74	78	95	112	524	260	95	81	77
10	102	89	93	75	78	94	119	536	223	94	78	77
11	100	90	94	78	79	94	117	409	196	91	77	91
12	100	91	98	80	80	94	110	395	184	89	76	99
13	100	106	94	84	81	94	99	370	174	91	76	93
14	100	94	88	84	83	94	93	448	166	99	75	87
15	99	94	86	84	84	94	96	330	158	94	75	94
16	97	100	88	84	86	94	94	300	152	93	82	93
17	97	99	86	84	86	94	103	279	145	91	83	88
18	96	102	88	84	86	94	115	273	141	91	88	85
19	99	97	86	83	87	94	123	265	137	91	90	83
20	99	99	86	82	88	94	111	260	133	96	84	83
21	96	100	86	82	86	94	112	250	130	100	84	83
22	96	105	83	82	82	94	123	243	129	106	82	82
23	96	102	82	76	81	93	133	282	125	97	78	90
24	95	99	84	71	81	92	145	342	125	99	77	90
25	94	105	89	61	81	91	149	374	125	101	90	91
26	95	93	85	66	84	90	141	348	121	93	85	90
27	96	82	89	72	89	88	150	303	115	88	97	89
28	100	70	89	78	96	90	152	288	112	89	97	89
29	101	78	84	78	---	89	155	273	108	85	90	89
30	99	90	82	78	---	99	172	318	107	85	84	89
31	94	---	82	78	---	96	---	474	---	83	82	---
TOTAL	3106	2816	2732	2428	2300	2929	3447	9712	6442	2967	2577	2568
MEAN	100	93.9	88.1	78.3	82.1	94.5	115	313	215	95.7	83.1	85.6
MAX	112	106	98	84	96	108	172	536	566	107	97	99
MIN	94	70	82	61	78	88	85	181	107	83	75	77
AC-FT	6160	5590	5420	4820	4560	5810	6840	19260	12780	5890	5110	5090
CAL YR 1976	TOTAL	80693	MEAN 220	MAX 1470	MIN 70	AC-FT 160100						
WTR YR 1977	TOTAL	44024	MEAN 121	MAX 566	MIN 61	AC-FT 87320						

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 300 ft (91 m) downstream from highway bridge, 0.8 mi (1.3 km) upstream from mouth, and 1.0 mi (1.6 km) south of Buford.

DRAINAGE AREA.--170 mi² (440 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1919 to December 1920 (monthly discharge only, published in WSP 1313), October 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,970 ft (2,124 m), from topographic map. Prior to Nov. 30, 1920, nonrecording gage at site 300 ft (91 m) upstream at different datum.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Diversions above station for irrigation of about 1,100 acres (4.45 km²) above station and a small area below.

AVERAGE DISCHARGE.--27 years, 250 ft³/s (7.080 m³/s), 181,100 acre-ft/yr (223 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 3,000 ft³/s (85 m³/s) June 30, 1957; maximum gage height, 7.07 ft (2.155 m) June 30, 1957; minimum daily discharge, 60 ft³/s (1.70 m³/s) Feb. 21, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 790 ft³/s (22.4 m³/s) June 1, gage height, 4.87 ft (1.484 m), no peak above base of 1,300 ft³/s (37 m³/s); minimum daily, 70 ft³/s (1.98 m³/s) Jan. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	103	100	96	115	105	105	215	585	108	81	86
2	108	104	98	96	114	105	105	210	446	100	81	85
3	114	105	96	94	114	108	105	246	426	105	82	86
4	114	104	96	90	114	108	105	231	386	100	82	88
5	110	103	100	90	114	100	105	200	300	99	92	87
6	106	103	110	90	114	105	110	208	273	104	92	84
7	108	105	105	90	114	105	115	279	234	101	87	84
8	108	105	105	90	114	105	120	406	220	99	84	83
9	106	104	110	90	114	105	125	525	234	105	84	83
10	106	104	115	90	114	105	130	540	208	88	84	82
11	105	105	115	92	114	105	130	406	175	84	85	94
12	105	97	120	94	118	105	125	402	167	81	84	100
13	106	118	115	96	118	105	125	374	159	81	84	93
14	105	112	110	98	119	102	120	454	151	85	83	89
15	104	105	105	100	120	102	120	370	141	89	84	93
16	104	117	100	100	122	105	115	346	137	90	89	93
17	104	106	100	100	125	105	120	315	130	90	91	88
18	101	116	100	98	130	108	123	303	123	89	95	85
19	97	114	100	96	135	108	132	297	122	89	97	83
20	99	111	100	94	140	108	117	288	117	92	90	81
21	101	104	100	94	140	110	112	276	110	94	92	81
22	103	106	100	94	120	110	122	267	108	98	91	81
23	101	108	100	90	100	110	129	303	108	92	88	93
24	100	106	100	80	100	100	141	370	108	91	88	81
25	100	106	100	70	100	94	147	406	111	95	99	77
26	100	110	100	76	100	94	139	374	108	88	93	76
27	104	76	100	86	100	93	149	326	106	86	100	77
28	97	76	100	95	100	95	155	300	108	85	100	77
29	103	84	100	100	---	96	155	294	108	83	95	78
30	105	100	100	110	---	100	180	318	106	84	90	81
31	104	---	100	115	---	110	---	470	---	83	88	---
TOTAL	3234	3117	3200	2894	3242	3216	3781	10319	5815	2858	2755	2549
MEAN	104	104	103	93.4	116	104	126	333	194	92.2	88.9	85.0
MAX	114	118	120	115	140	110	180	540	585	108	100	100
MIN	97	76	96	70	100	93	105	200	106	81	81	76
AC-FT	6410	6180	6350	5740	6430	6380	7500	20470	11530	5670	5460	5060

CAL YR 1976 TOTAL 81820 MEAN 224 MAX 1650 MIN 76 AC-FT 162300
WTR YR 1977 TOTAL 46980 MEAN 129 MAX 585 MIN 70 AC-FT 93180

NOTE.--NO GAGE-HEIGHT RECORD DEC. 24 TO MAR. 4.

GREEN RIVER BASIN

09304000 SOUTH FORK WHITE RIVER AT BUFORD, CU--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD--October 1976 to September 1977 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)
OCT									
29...	1425	122	320	8.3	4.0	10.8	--	140	21
NOV									
29...	1400	105	340	7.7	.0	--	--	160	36
DEC									
10...	1100	134	280	8.4	.0	11.1	--	130	29
JAN									
10...	1100	71	--	7.7	--	10.4	19	140	22
FEB									
04...	1330	144	310	8.6	1.0	12.6	9	150	34
MAR									
24...	1330	100	240	8.5	7.0	--	20	130	21
APR									
15...	1425	120	225	8.1	6.0	7.1	7	130	19
MAY									
26...	1440	378	--	8.1	7.0	8.5	--	110	15
JUN									
22...	1100	106	320	7.9	13.0	--	--	180	41
JUL									
22...	1230	101	300	7.7	14.5	--	--	160	30
AUG									
29...	1500	93	290	8.2	16.0	7.8	--	150	28
SEP									
26...	1430	75	260	8.1	13.0	8.4	--	150	34

DATE	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITAS AS CACU3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT									
29...	39	9.3	3.0	.1	.9	140	0	115	27
NOV									
29...	47	11	2.3	.1	1.0	155	0	127	39
DEC									
10...	39	9.0	2.3	.1	1.0	128	0	105	26
JAN									
10...	43	8.5	2.7	.1	.8	147	0	121	34
FEB									
04...	45	9.6	2.6	.1	1.0	133	5	117	39
MAR									
24...	37	8.9	2.3	.1	1.0	128	2	110	32
APR									
15...	36	8.7	4.5	.2	1.0	130	0	110	29
MAY									
26...	31	6.7	1.3	.1	.8	110	0	90	15
JUN									
22...	54	11	2.8	.1	1.1	170	0	140	40
JUL									
22...	48	10	2.4	.1	1.1	160	0	130	35
AUG									
29...	44	9.9	2.4	.1	1.3	150	0	120	31
SEP									
26...	43	10	2.1	.1	.9	140	0	110	31

09304000 SOUTH FORK WHITE RIVER AT BUFORD, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
OCT 29...	.7	.1	14	163	.03	.01	.00	.00	.01
NOV 29...	1.4	.1	13	192	.09	.00	.16	.16	.03
DEC 10...	1.0	.1	15	157	.14	.00	.28	.28	.02
JAN 10...	.7	.1	18	181	.19	--	.10	.10	--
FEB 04...	.9	.1	17	186	.04	.02	.28	.30	.04
MAR 24...	2.9	.1	16	165	.03	.01	.14	.15	.00
APR 15...	.9	.1	15	159	.03	.00	.22	.22	.00
MAY 26...	.5	.1	10	120	.01	.00	.07	.07	.03
JUN 22...	2.5	.1	14	209	.05	.01	.00	.01	.05
JUL 22...	.8	.1	14	191	.18	.02	.07	.09	.03
AUG 29...	1.1	.1	15	179	.01	.01	.11	.12	.02
SEP 26...	.9	.1	15	172	.00	.01	.01	.02	.01

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)
OCT 29...	1425	0	30	2	0	.0	0	1.8
JAN 10...	1100	1	40	2	10	.0	0	1.9
MAY 26...	1440	0	60	2	0	.0	0	3.5
AUG 29...	1500	0	20	11	10	.0	0	3.0

GREEN RIVER BASIN

09304150 MILLER CREEK NEAR MEEKER, CO

LOCATION.--Lat 39°55'52", long 107°46'10", in NW¼NW¼ sec 31, T.1 S., R.92 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 200 ft (61 m) downstream from bridge, 1.1 mi (1.8 km) upstream from mouth, and 11 mi (18 km) southeast of Meeker.

DRAINAGE AREA.--57.6 mi² (149.2 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 6,710 ft (2,045 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. One small diversion above station for irrigation below.

AVERAGE DISCHARGE.--7 years, 18.5 ft³/s (0.5239 m³/s), 13,400 acre-ft/yr (16.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 200 ft³/s (5.66 m³/s) May 20, 1973, gage height, 3.95 ft (1.204 m), from rating curve extended above 69 ft³/s (2.0 m³/s); minimum daily, 4.6 ft³/s (0.13 m³/s) June 11, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 23 ft³/s (0.65 m³/s) Sept. 3, gage height, 2.62 ft (0.799 m), no peak above base of 60 ft³/s (1.7 m³/s); maximum gage height, 3.31 ft (1.009 m) Nov. 28 (backwater from ice); minimum daily discharge, 4.6 ft³/s (0.13 m³/s) June 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	17	16	16	15	14	15	12	9.5	9.5	6.8	7.0
2	20	17	16	16	15	14	15	12	8.0	9.1	6.6	7.0
3	20	17	16	16	16	14	14	13	6.8	9.1	6.6	9.0
4	20	17	16	16	15	14	14	13	5.8	10	6.6	7.8
5	20	16	17	16	14	15	15	12	5.4	10	6.8	8.7
6	20	16	17	16	14	16	15	12	5.3	11	6.8	9.1
7	20	16	17	16	14	14	15	12	5.3	11	6.8	9.1
8	20	16	17	16	15	14	15	12	5.1	10	6.6	9.5
9	20	16	17	16	14	14	15	12	4.9	9.1	6.3	9.5
10	20	16	16	16	14	14	15	11	4.9	6.1	6.3	9.5
11	20	16	16	16	14	14	15	12	4.6	5.6	6.3	10
12	20	18	16	16	14	16	15	12	4.8	6.1	6.3	9.5
13	19	18	16	16	14	14	15	12	4.8	7.5	6.3	9.1
14	18	18	16	15	14	14	15	13	4.9	7.0	6.3	9.5
15	18	18	16	15	14	14	15	13	4.9	6.8	6.6	9.1
16	18	16	16	15	13	14	15	13	5.3	7.0	6.6	8.0
17	18	16	16	15	13	13	14	13	5.3	7.0	6.6	8.4
18	18	16	16	15	13	13	14	12	5.3	7.0	7.0	8.4
19	18	16	15	14	13	13	14	12	5.3	8.0	6.8	9.5
20	16	16	18	14	14	13	14	11	5.3	7.5	6.8	11
21	16	16	18	14	14	13	14	11	5.3	8.0	6.8	11
22	16	16	18	14	14	13	14	11	5.3	8.0	6.6	11
23	16	17	16	15	14	15	14	11	5.3	8.7	6.3	14
24	16	17	16	14	14	17	14	11	5.3	8.7	6.3	17
25	17	16	16	14	14	16	14	11	5.3	8.7	7.3	16
26	17	16	16	14	14	16	12	11	5.4	8.4	6.8	16
27	17	16	16	14	14	16	12	11	5.4	7.5	8.0	16
28	17	16	16	14	14	15	12	11	5.4	7.3	7.5	15
29	17	16	16	14	---	15	12	11	5.4	7.3	7.5	15
30	17	16	16	14	---	15	12	11	6.3	7.3	7.0	15
31	17	---	16	14	---	15	---	10	---	7.0	7.0	---
TOTAL	566	494	506	466	394	447	424	364	165.9	251.3	208.9	324.7
MEAN	18.3	16.5	16.3	15.0	14.1	14.4	14.1	11.7	5.53	8.11	6.74	10.8
MAX	20	18	18	16	16	17	15	13	9.5	11	8.0	17
MIN	16	16	15	14	13	13	12	10	4.6	5.6	6.3	7.0
AC-FT	1120	980	1000	924	781	887	841	722	329	498	414	644
CAL YR 1976	TOTAL	6826.0	MEAN 18.7	MAX 85	MIN 12	AC-FT 13540						
WTR YR 1977	TOTAL	4611.8	MEAN 12.6	MAX 20	MIN 4.6	AC-FT 9150						

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 (12 m) downstream from county road bridge, 2.3 mi (3.7 km) upstream from Coal Creek, and 5.0 mi (8.0 km) southeast of Meeker. Prior to October 1, 1976, at site 76 ft (23 m) upstream at datum 2.0 ft (0.610 m) higher.

DRAINAGE AREA.--660 mi² (1,710 km²), approximately.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft (1,951 m), from topographic map. Oct. 1, 1961, to Sept. 30, 1976, at site 76 ft (23 m) upstream at datum 2.0 ft (0.610 m) higher.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Diversions above station for irrigation of about 8,000 acres (32.4 km²) above station and about 4,000 acres (16.2 km²) below.

AVERAGE DISCHARGE.--16 years, 537 ft³/s (15.21 m³/s), 389,100 acre-ft/yr (480 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,700 ft³/s (133 m³/s) June 8, 1975, gage height, 4.88 ft (1.487 m); maximum gage height, 5.41 ft (1.649 m) May 13, 1962; minimum daily discharge, 6.5 ft³/s (0.18 m³/s) July 19-21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 883 ft³/s (25 m³/s) May 9, gage height, 3.67 ft (1.119 m), no peak above base of 2,000 ft³/s (57 m³/s); minimum daily, 6.5 ft³/s (0.18 m³/s) July 19-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	284	284	190	180	160	254	227	556	535	16	52	95
2	284	284	200	180	150	261	196	475	525	14	45	90
3	296	292	210	180	150	250	213	550	525	14	43	96
4	296	284	210	180	150	233	210	475	515	13	53	101
5	284	280	210	170	150	227	213	376	470	13	81	92
6	276	280	200	160	155	220	220	400	433	13	98	85
7	280	276	190	160	158	215	237	470	371	13	79	80
8	284	272	180	155	168	210	280	580	309	14	80	70
9	288	268	170	155	190	200	362	705	292	14	82	51
10	280	261	170	160	210	190	390	705	261	14	73	39
11	296	257	175	180	227	185	390	475	230	14	67	45
12	300	237	180	190	230	180	376	422	210	16	65	58
13	296	276	180	210	254	180	328	366	180	17	57	50
14	296	284	180	230	257	185	309	470	180	18	54	41
15	296	268	180	250	240	185	328	416	180	18	54	58
16	296	284	180	270	254	237	318	416	190	11	61	72
17	296	264	180	255	257	247	381	450	110	10	66	65
18	296	276	180	230	254	237	444	390	70	8.0	76	67
19	276	272	180	210	250	233	450	333	45	6.5	84	72
20	296	272	180	190	250	237	376	292	28	6.5	72	74
21	296	261	180	170	250	223	357	257	20	6.5	67	77
22	296	264	180	165	261	227	428	220	16	13	69	78
23	284	272	180	150	250	244	480	240	15	16	66	86
24	280	268	180	150	257	254	510	280	16	13	57	88
25	276	276	180	150	244	250	550	333	17	45	80	86
26	284	260	180	160	230	247	530	296	18	112	82	81
27	272	200	180	160	254	244	545	257	20	71	116	74
28	272	180	180	150	254	250	540	240	19	72	112	64
29	288	180	180	150	---	220	490	240	18	135	97	61
30	296	180	180	150	---	227	525	240	17	95	84	54
31	288	---	180	170	---	220	---	371	---	67	98	---
TOTAL	8928	7812	5705	5620	6114	6972	11203	12296	5835	908.5	2270	2150
MEAN	288	260	184	181	218	225	373	397	195	29.3	73.2	71.7
MAX	300	292	210	270	261	261	550	705	535	135	116	101
MIN	272	180	170	150	150	180	196	220	15	6.5	43	39
AC-FT	17710	15500	11320	11150	12130	13830	22220	24390	11570	1800	4500	4260
CAL YR 1976	TOTAL	162334.0	MEAN	444	MAX	2500	MIN	107	AC-FT	322000		
WTR YR 1977	TOTAL	75813.5	MEAN	208	MAX	705	MIN	6.5	AC-FT	150400		

NOTE.--NO GAGE-HEIGHT RECORD JUNE 11 TO JULY 15.

GREEN RIVER BASIN

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 (1.6 km) upstream from Curtis Creek and 2.5 mi (4.0 km) east of Meeker.

DRAINAGE AREA.--762 mi² (1,974 km²).

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.--WSP 764: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,300 ft (1,920 m), 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 (4.0 km) downstream at different datum. Oct. 20, 1913, to Sept. 30, 1971, water-stage recorder at present site, at datum 3.00 ft (0.914 m) higher prior to Oct. 1, 1933, and at datum 2.00 ft (0.610 m) higher thereafter.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Diversions above station for irrigation of about 12,000 acres (48.6 km²) above station and about 3,000 acres (12.1 km²) below.

AVERAGE DISCHARGE.--73 years, 618 ft³/s (17.50 m³/s), 447,700 acre-ft/yr (552 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 6,370 ft³/s (180 m³/s) June 16, 1921, gage height, 7.60 ft (2.316 m), present datum, from rating curve extended above 4,700 ft³/s (130 m³/s); minimum daily, 78 ft³/s (2.21 m³/s) July 16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 928 ft³/s (26.3 m³/s) June 1, gage height, 3.44 ft (1.049 m), no peak above base of 2,100 ft³/s (59 m³/s); minimum daily, 78 ft³/s (2.21 m³/s) July 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	360	318	260	220	250	255	300	605	710	117	112	179
2	370	318	280	220	245	240	289	525	685	117	114	167
3	380	322	280	220	240	250	286	595	690	104	125	179
4	380	318	280	210	235	258	292	545	670	106	145	182
5	382	318	280	210	230	261	296	430	610	112	189	164
6	370	318	280	210	230	270	303	446	570	117	195	157
7	370	322	280	210	230	280	338	525	520	104	160	148
8	358	314	280	210	230	300	370	655	470	109	157	134
9	366	303	280	200	240	270	410	744	458	109	151	106
10	362	300	270	210	250	240	442	774	434	98	139	104
11	374	296	250	220	250	230	446	545	370	109	131	134
12	358	278	240	230	255	225	434	490	310	85	123	164
13	350	322	235	235	255	220	394	446	282	89	106	145
14	354	346	235	245	255	220	370	550	241	98	104	134
15	346	326	235	255	255	215	386	515	198	88	104	154
16	338	346	235	265	255	225	370	510	205	78	117	164
17	338	322	235	275	255	230	418	530	224	83	131	145
18	334	338	230	280	255	240	480	470	137	80	160	154
19	318	326	230	270	260	250	505	442	120	83	176	170
20	330	322	230	255	270	260	430	410	114	101	145	167
21	342	310	230	250	270	265	398	378	117	88	145	170
22	354	303	230	240	240	275	442	346	93	117	145	160
23	342	306	230	230	220	280	495	366	101	120	137	170
24	330	296	230	230	220	290	535	402	109	134	125	176
25	322	303	230	230	220	300	585	470	114	176	167	170
26	330	322	230	230	220	310	570	466	123	202	167	164
27	310	250	240	230	230	303	585	454	118	139	224	170
28	322	210	245	230	250	322	595	438	117	151	211	157
29	318	210	250	240	---	282	530	434	104	202	179	148
30	322	250	230	245	---	289	570	422	104	151	164	145
31	318	---	220	250	---	292	---	545	---	123	164	---
TOTAL	10748	9133	7690	7255	6815	8147	12864	15473	9118	3590	4612	4681
MEAN	347	304	248	234	243	263	429	499	304	116	149	156
MAX	382	346	280	280	270	322	595	774	710	202	224	182
MIN	310	210	220	200	220	215	286	346	93	78	104	104
AC-FT	21320	18120	15250	14390	13520	16160	25520	30690	18090	7120	9150	9280
CAL YR 1976 TOTAL	198194											
WTR YR 1977 TOTAL	100126											
MEAN 542												
MAX 2920												
MIN 181												
AC-FT 393100												
AC-FT 198600												

NOTE.--NO GAGE-HEIGHT RECORD DEC. 22 TO MAR. 3.

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 (9 m) downstream from county bridge, 4.5 mi (7.2 km) downstream from Strawberry Creek, and 10 mi (16 km) west of Meeker.

DRAINAGE AREA.--1,040 mi² (2,690 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,928 ft (1,807 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Diversion above station for irrigation of about 22,000 acres (89.0 km²) above station and a few small hay meadows below.

AVERAGE DISCHARGE.--16 years, 607 ft³/s (17.19 m³/s), 439,800 acre-ft/yr (542 nm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,370 ft³/s (124 m³/s) June 8, 1975, gage height, 4.02 ft (1.225 m); maximum gage height, 4.09 ft (1.247 m) June 15, 1965; minimum daily discharge, 85 ft³/s (2.41 m³/s) June 28, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 918 ft³/s (26.0 m³/s) June 1, gage height, 2.06 ft (0.628 m), no peak above base of 2,000 ft³/s (57 m³/s); maximum gage height, 3.95 ft (1.204 m) Jan. 7 (backwater from ice); minimum daily discharge, 85 ft³/s (2.41 m³/s) June 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	400	335	300	250	245	310	303	520	688	99	162	245
2	405	340	310	250	230	320	294	454	711	186	153	245
3	442	350	320	250	240	298	285	502	711	155	160	265
4	430	345	330	240	255	290	290	448	655	133	165	257
5	415	335	340	220	260	285	298	335	578	174	186	265
6	400	330	350	220	255	273	308	326	520	141	224	253
7	405	330	350	220	240	298	340	345	460	143	192	234
8	390	326	365	220	235	321	355	436	420	129	189	231
9	400	326	355	215	225	321	380	592	410	110	178	207
10	395	321	355	210	225	326	410	599	370	108	160	195
11	400	312	321	235	230	294	420	448	316	101	143	186
12	390	298	312	265	235	290	410	316	265	91	143	245
13	375	321	316	300	245	308	390	285	228	92	139	253
14	380	360	316	330	250	321	375	326	192	141	145	238
15	380	335	303	330	260	294	360	400	165	139	149	234
16	365	340	290	330	265	312	340	375	143	119	168	269
17	365	326	312	330	270	330	365	365	170	110	255	249
18	365	345	308	330	260	316	415	326	153	111	245	245
19	355	330	298	330	250	308	466	285	147	125	257	257
20	360	321	261	330	240	312	390	269	151	141	242	249
21	380	308	234	330	245	303	345	242	153	131	238	238
22	375	298	240	330	250	298	375	228	137	139	234	234
23	360	316	245	330	260	312	430	228	119	168	228	231
24	360	312	255	330	265	345	466	261	108	170	224	236
25	345	316	270	330	255	345	514	321	86	224	238	234
26	355	270	280	320	250	330	502	370	96	228	261	228
27	335	230	255	310	280	321	508	395	90	195	430	224
28	330	230	250	300	300	326	520	370	85	192	355	207
29	335	240	250	285	---	285	472	380	86	201	303	210
30	350	260	260	270	---	285	472	365	86	198	265	180
31	350	---	280	255	---	298	---	484	---	175	245	---
TOTAL	11692	9406	9231	8795	7020	9575	11798	11596	8499	4569	6676	7046
MEAN	377	314	298	284	251	309	393	374	283	147	215	235
MAX	442	360	365	330	300	345	520	599	711	228	430	269
MIN	330	230	234	210	225	273	285	228	85	91	139	180
AC-FT	23190	18660	18310	17440	13920	18990	23400	23000	16860	9060	13240	13980
CAL YR 1976	TOTAL	186904	MEAN	511	MAX	2110	MIN	180	AC-FT	370700		
WTR YR 1977	TOTAL	105903	MEAN	290	MAX	711	MIN	85	AC-FT	210100		

NOTE.--NO GAGE-HEIGHT RECORD JAN. 8 TO MAR. 2.

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD--April 1974 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICHO- MOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIO- CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL./ 100 ML)	HARD- NESS (CA+MG) (MG/L)
NOV 17...	1400	332	560	8.4	4.0	3	12.2	4	--	160	310	250
DEC 13...	1100	312	500	8.0	.0	3	12.5	0	--	860	315	260
JAN 25...	1220	E330	580	8.0	.0	4	11.3	66	--	250	--	250
FEB 09...	1415	E226	500	8.1	2.0	4	12.0	120	--	1000	<5	240
MAR 23...	0900	308	595	8.4	3.5	7	10.7	24	--	852	<1	270
APR 14...	1530	E345	520	8.5	11.0	12	8.2	17	--	3120	315	240
MAY 24...	1415	273	725	8.1	14.0	27	--	2	--	3160	362	270
JUN 23...	1430	119	1000	8.4	21.0	18	--	18	--	--	92	430
JUL 21...	1400	131	1000	8.0	21.0	45	7.0	22	--	--	360	440
AUG 31...	1000	249	800	8.1	16.0	25	7.9	16	--	>200	220	330
SEP 30...	1300	180	900	8.1	11.0	--	8.5	0	1.0	7800	3180	350

DATE	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED PO-TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKAL- INITY AS CAC03 (MG/L)	TOTAL SUL- FIDE (S) (MG/L)	DISSOLVED SUL- FIDE (S) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
NOV 17...	110	68	19	38	1.1	1.3	155	5	135	--	.2	140
DEC 13...	130	74	18	30	.8	1.3	164	0	135	--	.2	130
JAN 25...	120	72	17	37	1.0	1.4	158	0	130	--	.0	140
FEB 09...	110	71	16	33	.9	1.4	159	0	130	--	1.1	140
MAR 23...	140	75	20	37	1.0	2.3	140	10	130	--	.4	150
APR 14...	110	67	17	35	1.0	1.8	150	2	130	--	.2	120
MAY 24...	110	71	22	40	1.1	2.7	200	0	160	--	.3	130
JUN 23...	220	110	38	73	1.5	3.0	260	0	210	--	.3	250
JUL 21...	180	110	40	93	1.7	3.6	320	0	250	--	.5	250
AUG 31...	130	90	25	51	1.2	2.1	240	0	200	.6	--	140
SEP 30...	180	98	33	50	1.3	2.2	240	0	200	.4	--	220

E ESTIMATED.

B BASED ON NON-IDEAL COLONY COUNT.

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED CHLORIDE (CL) (MG/L)	DIS- SOLVED FLUORIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL SOLUBLE NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHOPHOSPHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)
NOV 17...	36	.2	14	399	.54	358	.05	.09	.52	.02	.01	--
DEC 13...	36	.1	17	388	.53	327	.14	.01	.00	.01	.01	0
JAN 25...	41	.2	17	404	.55	--	.15	.05	.22	.03	.04	--
FEB 09...	37	.2	18	397	.54	242	.12	.03	.52	.04	.03	--
MAR 23...	45	.2	15	435	.59	362	.01	.04	.73	.00	.02	--
APR 14...	34	.1	15	367	.50	327	.07	.05	.57	.03	.03	--
MAY 24...	36	.2	13	415	.56	306	.01	.00	.49	.08	.05	1
JUN 23...	66	.4	5.8	676	.92	217	.03	.02	.40	.05	.10	--
JUL 21...	57	.4	20	734	1.00	260	.05	.05	.15	.09	.05	--
AUG 31...	48	.3	16	542	.74	364	.03	.01	.49	.08	.09	1
SEP 30...	60	.5	15	607	.83	295	.01	.03	.30	.02	--	--

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS- SOLVED MANGANESE (MN) (UG/L)	DIS- SOLVED STRONTIUM (SR) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DIS- SOLVED SELENIUM (SE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS- SOLVED ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)
NOV 17...	1	30	--	50	--	20	840	--	1	4.3	8.0	0
DEC 13...	0	30	170	30	30	20	820	1	1	1.3	3.7	0
JAN 25...	1	40	--	70	--	30	810	--	1	1.5	3.7	1
FEB 09...	1	20	--	30	--	10	810	--	1	1.7	2.2	0
MAR 23...	1	30	--	100	--	50	820	--	2	--	3.5	0
APR 14...	1	30	--	80	--	20	720	--	1	3.3	5.7	0
MAY 24...	0	50	330	80	40	20	680	2	2	4.1	6.4	0
JUN 23...	1	90	--	120	--	40	1100	--	1	5.5	7.5	0
JUL 21...	1	120	--	110	--	70	1200	--	2	7.3	16	0
AUG 31...	1	70	1200	30	80	20	940	1	3	--	--	0
SEP 30...	--	70	--	90	--	--	--	--	--	2.8	2.9	0

GREEN RIVER BASIN

09304800 WHITE RIVER BELOW MEEKER, CU--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL ALUMINUM (AL)	DIS-SOLVED ALUMINUM (AL)	TOTAL BARIUM (BA)	DIS-SOLVED BARIUM (BA)	TOTAL BERYLLIUM (BE)	DIS-SOLVED BERYLLIUM (BE)	TOTAL CADMIUM (CD)	DIS-SOLVED CADMIUM (CD)	TOTAL CHROMIUM (CR)	DIS-SOLVED CHROMIUM (CR)	TOTAL COBALT (CO)
		(UG/L)	(JG/L)	(JG/L)	(JG/L)	(UG/L)	(UG/L)	(JG/L)	(UG/L)	(JG/L)	(JG/L)	(JG/L)
DEC 13...	1100	140	0	0	0	0	0	<10	1	0	0	<50
MAY 24...	1415	200	40	0	0	0	0	<10	1	0	0	<50
AUG 31...	1000	590	0	800	300	0	0	<10	1	0	0	<50

DATE		DIS-SOLVED COBALT (CO)	TOTAL COPPER (CU)	DIS-SOLVED COPPER (CU)	TOTAL LEAD (PB)	DIS-SOLVED LEAD (PB)	TOTAL LITHIUM (LI)	DIS-SOLVED LITHIUM (LI)	TOTAL MERCURY (HG)	DIS-SOLVED MERCURY (HG)	TOTAL MOLYBDENUM (MO)	DIS-SOLVED MOLYBDENUM (MO)	TOTAL NICKEL (NI)
		(JG/L)	(UG/L)	(JG/L)	(JG/L)	(JG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(JG/L)
DEC 13...	0	<10		1	<100	0	10	8	.4	.3	1	1	<50
MAY 24...	0	<10		3	<100	5	8	10	.0	.0	1	1	<50
AUG 31...	1	<10		2	100	3	20	10	.2	.0	0	0	<50

DATE		DIS-SOLVED NICKEL (NI)	DIS-SOLVED VANADIUM (V)	TOTAL ZINC (ZN)	DIS-SOLVED ZINC (ZN)	DIS-SOLVED GROSS ALPHA AS J-NAT.	SUS-PENDED GROSS ALPHA AS U-NAT.	DIS-SOLVED GROSS BETA AS CS-137	SUS-PENDED GROSS BETA AS CS-137	DIS-SOLVED GROSS BETA AS SR90 /Y90	SUS-PENDED GROSS BETA AS SR90 /Y90	CYANIDE (CN)	TOTAL PHYTOPLANKTON (CELLS PER ML)
		(JG/L)	(UG/L)	(JG/L)	(JG/L)	(JG/L)	(UG/L)	(PC/L)	(PC/L)	(PC/L)	(PC/L)	(PC/L)	(MG/L)
DEC 13...	1	.7		10	20	--	--	--	--	--	--	.00	700
MAY 24...	6	1.0		3	10	<9.0	.5	3.9	.7	3.3	.7	.00	670
AUG 31...	2	.0		20	0	<6.8	3.5	4.1	2.4	3.4	1.9	.00	1900

DATE	TIME	TOTAL PCB (UG/L)	POLY-CHLORINATED NAPH-THALENES	TOTAL ALDRIN	TOTAL CHLORDANE	TOTAL DDD	TOTAL DDE	TOTAL DDT	TOTAL DIAZINON	TOTAL DIELDRIN	TOTAL ENDRIN	TOTAL ETHION
			(JG/L)	(JG/L)	(JG/L)	(JG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
MAY 24...	1415	.0	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
AUG 31...	1000	.0	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00

DATE		TOTAL HEPTACHLOR	TOTAL HEPTACHLOR EPOXIDE	TOTAL LINDANE	TOTAL MALATHION	TOTAL METHYL PARATHION	TOTAL METHYL TRITHION	TOTAL PARATHION	TOTAL TOXAPHENE	TOTAL TRITHION	TOTAL 2,4-D	TOTAL 2,4,5-T	TOTAL SILVEX
		(JG/L)	(UG/L)	(JG/L)	(JG/L)	(JG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(JG/L)	(UG/L)
MAY 24...	.00	.00	.00	.00	.00	.00	.00	.00	0	.00	.01	.00	.00
AUG 31...	.00	.00	.00	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

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 (6 m) downstream from private bridge, 1,100 ft (340 m) upstream from Stewart Gulch, and 14.3 mi (23.0 km) west of Rio Blanco.

DRAINAGE AREA.--177 mi² (458 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,366 ft (1,940 m), from topographic map.

REMARKS.--Records good. Several diversions above station for irrigation of hay meadows.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 520 ft³/s (14.7 m³/s) July 19, 1977, gage height, 7.01 ft (2.137 m), from rating based on indirect measurement; minimum daily, 0.60 ft³/s (0.017 m³/s) Aug. 9, 10, Sept. 9, 10, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 520 ft³/s (14.7 m³/s) July 19, gage height, 7.01 ft (2.137 m), from rating based on indirect measurement, only peak above base of 100 ft³/s (2.8 m³/s); minimum daily, 0.60 ft³/s (0.017 m³/s) Aug. 9, 10, Sept. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	7.4	10	6.6	5.2	6.2	3.2	1.4	3.7	3.4	3.7	1.4
2	6.2	8.4	9.9	5.8	4.9	6.2	3.2	1.4	3.2	3.4	3.7	1.4
3	7.4	7.9	9.4	6.2	5.8	6.2	3.4	1.1	3.2	3.4	2.9	3.9
4	5.8	7.9	8.4	7.4	5.5	6.6	3.4	1.1	3.2	3.7	1.4	1.4
5	4.6	7.4	8.4	6.2	6.2	7.0	3.7	1.1	3.4	4.0	1.9	1.1
6	4.0	7.4	8.4	5.5	5.8	6.6	4.8	1.1	4.0	4.0	2.1	1.1
7	4.3	7.4	8.9	5.8	5.5	6.6	4.8	1.6	4.8	3.7	1.6	1.1
8	4.0	7.0	8.9	7.0	5.8	6.6	3.4	2.4	5.5	3.7	1.9	1.1
9	3.3	6.6	8.4	6.5	5.8	6.2	2.7	2.9	5.5	3.7	.60	.60
10	3.3	7.4	8.4	6.0	6.6	5.8	2.7	2.9	5.1	3.7	.60	.60
11	3.3	7.4	7.4	5.6	5.5	6.2	1.9	1.9	4.8	3.4	1.4	2.1
12	4.3	7.0	7.4	5.8	6.2	6.2	1.9	1.9	4.8	3.4	1.4	2.7
13	4.3	7.4	7.4	6.4	5.5	6.6	2.1	3.4	4.8	3.7	1.4	2.1
14	3.3	7.4	7.4	6.0	5.5	6.2	1.6	8.1	4.5	3.7	2.1	2.1
15	3.6	7.4	7.0	6.2	5.5	7.9	1.6	7.5	4.5	3.4	1.9	2.7
16	6.2	7.0	7.0	5.2	5.5	7.0	1.4	6.5	4.5	3.4	2.1	2.7
17	6.6	6.2	6.6	5.8	5.2	6.2	1.6	6.2	4.5	3.4	3.2	2.1
18	6.6	6.2	6.6	5.8	5.2	6.2	1.4	5.8	4.5	3.7	4.0	1.9
19	6.6	6.2	6.2	5.2	5.5	7.4	2.1	5.8	4.5	4.4	2.4	3.2
20	6.6	6.2	6.6	5.2	5.2	6.2	2.1	5.8	4.5	9.4	7.3	4.0
21	5.5	7.9	6.6	4.9	5.5	7.0	1.6	5.5	4.3	6.2	4.8	4.0
22	5.2	8.9	6.6	4.9	5.5	8.4	1.9	5.5	4.3	5.8	4.3	4.3
23	4.0	8.4	7.0	5.2	5.8	8.1	1.6	5.5	4.0	1.4	4.3	3.2
24	4.6	8.9	7.4	4.9	5.5	8.8	1.6	5.5	4.0	6.5	2.7	2.7
25	5.2	9.9	6.2	4.9	5.8	15	1.6	5.5	4.0	6.5	1.4	2.7
26	4.3	9.4	6.2	5.5	7.0	10	1.4	5.8	4.0	4.3	1.1	2.7
27	5.8	9.6	6.6	5.8	6.6	8.1	.84	5.8	4.0	4.5	2.1	2.7
28	5.2	9.8	5.5	6.6	6.6	10	.84	4.5	3.7	4.0	1.6	2.7
29	6.2	10	5.5	7.0	---	5.8	.84	2.9	3.7	4.3	1.4	2.9
30	7.9	9.9	5.8	6.2	---	4.8	1.1	2.9	3.7	4.0	1.4	2.9
31	8.4	---	5.8	6.6	---	3.7	---	2.9	---	4.0	1.6	---
TOTAL	161.8	235.9	227.9	182.7	160.2	219.8	66.32	122.2	127.2	182.3	74.30	70.10
MEAN	5.22	7.86	7.35	5.89	5.72	7.09	2.21	3.94	4.24	5.88	2.40	2.34
MAX	8.4	10	10	7.4	7.0	15	4.8	8.1	5.5	4.4	7.3	4.3
MIN	3.3	6.2	5.5	4.9	4.9	3.7	.84	1.1	3.2	3.4	.60	.60
AC-FT	321	468	452	362	318	436	132	242	252	362	147	139
CAL YR 1976	TOTAL	3505.90	MEAN 9.58	MAX 39	MIN 3.3	AC-FT 6950						
WTR YR 1977	TOTAL	1830.72	MEAN 5.02	MAX 44	MIN .60	AC-FT 3630						

GREEN RIVER BASIN

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 current year.
 pH: December 1974 to current year.
 WATER TEMPERATURE: December 1974 to current year.
 DISSOLVED OXYGEN: December 1974 to current year.
 SUSPENDED SEDIMENT DISCHARGE: April 1974 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler since April 1974. Water-quality monitor since December 1974.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,690 micromhos June 21, 1976; minimum, 344 micromhos Apr. 13, 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, 5.4 mg/L Apr. 29, 1977.
 pH: Maximum, 9.0 units June 21, 1976; minimum, 7.0 units May 24, 1976.
 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, 4,580 tons (4,150 t) July 20, 1974; minimum daily, 0.04 ton (0.04 t) Apr. 27, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Not determined.
 WATER TEMPERATURES: Maximum, 29.5°C July 25; minimum, freezing point on many days October to April.
 DISSOLVED OXYGEN: Maximum, 12.9 mg/L Apr. 13; minimum, 5.4 mg/L Apr. 29.
 pH: Maximum, 8.5 units many days during the year; minimum, 7.7 units Jan. 7.
 SEDIMENT CONCENTRATIONS: Maximum daily, 10,700 mg/L July 9; minimum daily, 8 mg/L Oct. 13.
 SEDIMENT LOADS: Maximum daily, 4,200 tons (3,810 t) July 19; minimum daily, 0.04 ton (0.04 t) Apr. 27.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)
OCT 05...	1210	4.1	1100	8.3	11.0	8	10.8	270	0	22	52
NOV 17...	0945	10	1210	8.2	1.5	3	10.2	390	0	75	50
JAN 24...	1300	6.5	1030	8.3	.5	6	10.5	350	0	70	43
MAR 14...	1245	5.6	1090	8.3	5.0	--	9.7	370	0	74	45
MAY 20...	1045	2.2	1000	8.3	9.5	--	9.4	370	0	70	48
JUL 12...	1430	3.4	960	8.3	25.0	--	7.0	330	0	51	49
AUG 18...	1235	3.5	1020	8.2	17.5	--	7.4	350	0	70	43

DATE	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TENTS) (MG/L)
OCT 05...	150	4.0	3.3	486	0	399	170	19	1.1	16	574
NOV 17...	140	3.1	2.8	526	0	431	180	16	1.1	15	741
JAN 24...	120	2.8	2.3	460	0	377	160	17	1.2	15	659
MAR 14...	120	2.7	2.9	546	0	448	160	18	1.3	16	710
MAY 20...	130	2.9	2.3	530	0	430	160	15	1.1	13	703
JUL 12...	130	3.1	2.2	480	0	390	170	12	1.2	12	564
AUG 18...	130	3.0	3.4	540	0	440	150	16	1.2	16	599

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (JG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (JG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
OCT 05...	3	--	220	--	--	20	--	--	80
NOV 17...	3	--	210	--	--	40	--	--	200
JAN 24...	3	0	190	4	0	30	39	20	80
MAR 14...	3	100	200	0	0	20	3	10	80
MAY 20...	1	0	180	0	1	40	0	20	100
JUL 12...	--	--	--	--	--	30	--	--	30
AUG 18...	2	500	240	3	3	60	2	20	160

DATE	DIS- SOLVED MERCURY (HG) (JG/L)	DIS- SOLVED MOLYB- DENUM (MO) (JG/L)	DIS- SOLVED SELE- NIUM (SE) (JG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANAD- IUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (JG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDED ORGANIC CARBON (C) (MG/L)
OCT 05...	--	--	--	--	--	--	20	.1
NOV 17...	--	--	--	--	--	--	8.4	.4
JAN 24...	.0	--	1	1400	--	10	--	--
MAR 14...	.0	--	1	1400	--	10	--	--
MAY 20...	.0	5	0	1500	4.2	8	--	--
JUL 12...	--	--	--	--	--	--	--	--
AUG 18...	.0	4	3	1400	2.7	4	--	--

DATE	TIME	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)
OCT 07...	1405	<10	<.4	5.5	<.4	4.9	<.4

GREEN RIVER BASIN

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1050	1070	991									
2	1060	1090	994									
3	1050	1100	1010									
4	1060	1080	1020									
5	1070	1100	1030									
6	1060	1110	1000									
7	1050	1090	1060									
8	1070	1090	1080									
9	1100	1090	1070									
10	1110	1060	1070									
11	1120	1040	1020									
12	1140	1030	1020									
13	1140	1040	1030									
14	1170	1060	1020									
15	1160	1050	1020									
16	1110	---	1030									
17	1110	---	1020									
18	1050	1080	1030									
19	1040	1060	1030									
20	1040	1050	1050									
21	1060	1020	1040									
22	1080	1010	1030									
23	1100	1010	1020									
24	1120	1000	985									
25	1090	1020	---									
26	1100	989	---									
27	1070	999	---									
28	1070	1010	---									
29	1080	962	---									
30	1080	971	---									
31	1070	---	---									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	16.5	6.0	9.5	1.5	3.0	.0	1.5	.0	---	---	9.0	.0
2	12.5	9.0	9.5	1.5	2.5	.0	3.0	.0	---	---	4.5	.0
3	15.5	8.5	9.0	3.0	3.5	.0	3.0	1.0	---	---	7.0	.5
4	15.0	6.5	9.0	1.5	3.5	.0	3.0	1.0	---	---	5.0	.0
5	14.0	5.0	9.5	2.0	3.5	.0	.5	.0	---	---	---	---
6	10.5	6.0	9.0	1.5	1.0	.0	.0	.0	---	---	6.0	.0
7	13.0	4.0	9.0	1.5	4.0	.0	---	---	---	---	9.0	.0
8	13.5	3.0	8.5	1.5	4.5	.5	---	---	---	---	10.5	.0
9	15.0	4.0	8.0	1.0	4.0	.0	---	---	---	---	6.0	.0
10	14.5	4.5	6.5	1.0	4.0	.0	---	---	---	---	---	---
11	13.0	5.5	6.5	.0	.5	.0	---	---	---	---	8.0	.0
12	14.0	4.5	4.5	.0	1.0	.0	2.5	.0	---	---	7.0	.0
13	13.5	4.5	4.5	2.0	1.0	.0	.5	.0	---	---	11.0	.0
14	14.0	4.5	5.0	1.0	2.0	.0	1.0	.0	---	---	5.5	.0
15	13.0	4.5	5.5	.5	.5	.0	.5	.0	---	---	9.0	.0
16	12.5	3.5	6.5	2.5	.0	.0	.5	.0	---	---	11.0	.0
17	12.0	4.5	7.0	3.0	.5	.0	.5	.0	---	---	5.5	1.5
18	8.5	2.0	7.5	1.5	.0	.0	---	---	---	---	8.0	.0
19	9.5	.0	7.0	1.0	.0	.0	---	---	---	---	7.0	.0
20	9.5	.5	5.5	.5	.0	.0	---	---	---	---	9.5	1.0
21	10.0	.5	4.5	.0	.0	.0	---	---	---	---	11.5	.0
22	10.0	1.0	5.0	.0	.5	.0	---	---	---	---	13.0	.0
23	9.5	2.5	5.0	.0	.5	.0	---	---	---	---	14.0	.0
24	10.5	3.0	4.5	.0	.5	.0	---	---	6.5	1.0	11.5	1.0
25	9.0	1.5	5.0	.0	---	---	.5	.0	4.5	.0	8.5	1.0
26	7.0	3.0	3.0	.0	.5	.0	1.0	.0	---	---	11.5	.5
27	8.5	1.0	2.0	.0	.5	.0	.5	.0	6.0	.0	15.0	.5
28	8.0	.5	1.0	.0	.5	.0	---	---	7.0	.0	5.5	.0
29	8.5	1.0	1.0	.0	.5	.0	---	---	---	---	4.0	.0
30	9.0	1.5	1.5	.0	.5	.0	---	---	---	---	11.5	.0
31	9.0	1.0	---	---	.5	.0	---	---	---	---	10.0	.0

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.5	1.5	15.0	6.0	24.0	7.0	24.5	9.5	---	---	22.5	11.0
2	5.5	1.0	13.0	4.0	26.0	7.5	24.5	12.5	24.5	16.0	22.5	9.5
3	10.5	.0	13.5	4.5	26.5	9.0	24.5	11.0	21.0	11.0	22.0	11.0
4	14.5	1.0	15.5	5.0	27.0	8.5	21.0	13.0	20.0	12.0	23.5	10.0
5	13.0	4.0	20.0	4.0	27.0	9.0	23.5	11.5	23.0	14.0	24.0	10.0
6	17.0	1.0	19.0	6.0	23.5	9.5	23.0	10.5	23.5	12.5	24.0	10.0
7	15.5	1.0	21.5	4.5	21.0	10.5	22.5	9.5	24.0	11.5	23.0	10.0
8	19.0	2.0	20.0	4.5	21.5	11.0	24.0	9.0	22.0	12.5	19.0	11.0
9	18.5	2.5	21.0	5.0	23.5	12.0	25.0	11.5	24.5	11.0	19.0	8.5
10	18.0	3.0	19.0	5.0	24.0	9.5	25.0	9.0	24.0	11.0	20.5	9.5
11	13.5	4.0	19.0	2.5	24.5	7.5	26.0	9.0	22.0	12.0	15.5	12.0
12	9.5	4.0	16.5	3.0	25.0	7.0	26.5	9.5	23.0	10.5	19.0	10.5
13	14.0	1.5	18.0	5.5	26.0	7.0	24.0	12.5	19.5	11.5	20.5	8.0
14	17.5	2.0	11.0	6.5	25.5	7.0	25.0	12.0	20.0	11.0	18.5	8.0
15	7.0	4.0	16.5	7.5	24.5	7.0	23.0	11.0	21.5	13.0	18.5	10.0
16	18.0	5.5	19.5	5.5	25.0	7.0	25.5	12.0	23.5	14.0	19.0	8.5
17	20.0	3.5	19.0	6.5	25.5	8.0	22.0	11.5	19.0	14.0	17.0	8.5
18	16.5	4.5	19.0	5.5	25.0	8.0	24.0	12.5	22.0	14.0	18.5	6.0
19	16.0	4.0	17.5	3.0	25.5	6.5	23.0	14.5	23.0	12.5	16.0	7.0
20	16.5	3.5	15.5	5.0	23.0	7.5	28.5	18.0	22.5	10.5	18.0	7.0
21	---	---	20.0	3.5	22.0	7.0	22.0	19.0	20.0	11.5	16.5	7.5
22	---	---	18.5	4.0	25.0	8.0	27.0	17.5	24.5	11.5	16.5	6.5
23	---	---	16.0	6.0	26.0	9.0	25.0	18.5	24.0	12.0	16.0	7.0
24	---	---	18.0	5.0	25.0	10.5	26.5	17.5	20.5	13.0	15.0	4.5
25	---	---	20.0	8.0	25.0	10.0	29.5	18.5	23.0	13.0	17.0	5.5
26	---	---	17.5	7.5	27.0	11.5	22.0	15.5	22.5	12.0	16.5	8.5
27	---	---	16.0	6.0	25.0	11.5	---	---	19.0	10.0	17.0	6.0
28	---	---	16.5	7.5	27.5	11.0	---	---	21.0	10.5	18.5	7.5
29	---	---	23.0	6.0	25.0	10.0	---	---	22.0	9.0	16.5	8.0
30	22.5	5.0	24.0	7.0	26.5	9.0	---	---	21.5	10.0	12.5	7.0
31	---	---	26.0	6.5	---	---	---	---	20.5	11.0	---	---

PH (UNITS), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	8.2	8.3	8.1	---	8.2	8.0	8.2	8.3	8.4	---	8.1
2	8.3	8.3	8.3	8.1	---	8.1	8.0	8.2	8.3	8.4	8.3	8.2
3	8.3	8.2	8.3	8.1	---	8.0	8.1	8.2	8.3	8.4	8.3	8.1
4	8.3	8.2	8.3	8.1	---	8.1	8.0	8.2	8.2	8.4	8.3	8.1
5	8.3	8.3	8.3	8.1	---	8.0	8.0	8.2	8.3	8.4	8.2	8.1
6	8.3	8.3	8.3	8.0	---	8.0	8.1	8.2	8.3	8.4	8.2	8.1
7	8.3	8.2	8.3	7.9	---	8.1	8.3	8.2	8.3	8.4	8.2	8.1
8	8.3	8.2	8.3	8.1	---	8.1	8.3	8.2	8.3	8.4	8.2	8.1
9	8.3	8.3	8.3	8.2	8.2	8.2	8.2	8.1	8.3	8.4	8.2	8.1
10	8.3	8.2	8.3	8.1	8.2	8.2	8.2	8.2	8.3	8.4	8.2	8.1
11	8.3	8.2	8.3	8.2	8.3	8.3	8.2	8.2	8.2	8.4	8.2	8.1
12	8.2	8.2	8.3	8.0	8.3	8.2	8.2	8.1	8.2	8.4	8.2	8.1
13	8.2	8.2	8.2	8.1	8.3	8.2	8.2	8.2	8.1	8.3	8.2	8.2
14	8.2	8.2	8.2	8.3	8.2	8.4	8.3	8.3	8.2	8.3	8.2	8.1
15	8.2	8.2	8.2	8.3	8.3	8.4	8.4	8.2	8.3	8.3	8.2	8.1
16	8.2	8.2	8.2	8.3	8.2	8.3	8.4	8.0	8.4	8.2	8.2	8.1
17	8.3	8.2	8.2	8.2	8.1	8.3	8.3	8.0	8.4	8.3	8.2	8.1
18	8.3	8.2	8.3	8.3	8.2	8.3	8.3	8.0	8.4	8.3	8.2	8.1
19	8.3	8.2	8.3	8.3	8.2	8.3	8.3	8.1	8.4	8.4	8.2	8.2
20	8.3	8.2	8.2	8.2	8.2	8.1	8.3	8.2	8.4	8.3	8.1	8.3
21	8.3	8.2	8.2	8.2	8.3	8.1	8.2	8.4	8.4	8.3	8.3	8.2
22	8.3	8.3	8.2	8.1	8.3	8.3	8.2	8.3	8.4	8.4	8.3	8.3
23	8.2	8.2	8.1	8.3	8.4	8.2	8.2	8.3	8.4	8.3	8.3	8.2
24	8.2	8.2	8.1	8.2	8.3	8.3	8.1	8.2	8.3	8.3	8.3	8.2
25	8.2	8.3	8.2	8.3	8.3	8.3	8.2	8.1	8.4	8.3	8.2	8.2
26	8.2	8.2	8.2	8.3	8.3	8.3	8.1	8.1	8.3	8.3	8.2	8.2
27	8.3	8.2	8.2	8.3	8.3	8.3	8.1	8.1	8.3	---	8.2	8.2
28	8.3	8.2	8.1	---	8.2	8.4	8.2	8.1	8.3	---	8.3	8.2
29	8.2	8.2	8.1	---	---	8.4	8.2	8.3	8.4	---	8.3	8.2
30	8.2	8.2	8.1	---	---	8.4	8.1	8.2	8.4	---	8.2	8.2
31	8.2	---	8.1	---	---	8.0	---	8.2	---	---	8.2	---

GREEN RIVER BASIN

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	10.4	7.5	10.2	7.8	9.9	9.0	9.6	9.1	---	---	10.0	8.0
2	10.3	7.9	10.4	7.8	9.9	9.1	9.8	9.2	---	---	9.8	8.8
3	10.3	8.0	10.4	7.8	9.9	9.0	9.5	9.0	---	---	9.8	8.4
4	10.5	8.2	10.4	7.8	10.0	8.8	9.6	9.1	---	---	10.0	8.8
5	11.1	8.6	10.4	7.8	9.8	8.9	9.8	9.4	---	---	10.0	9.1
6	11.0	8.9	10.6	7.7	10.1	9.5	9.9	9.3	---	---	9.9	8.5
7	11.2	8.9	10.7	7.8	10.2	9.1	9.9	9.7	---	---	10.0	7.9
8	11.2	8.5	10.8	7.9	10.3	9.2	9.8	9.6	---	---	10.0	7.7
9	10.8	8.2	10.9	7.8	10.4	9.1	9.8	9.3	10.5	9.6	9.9	8.2
10	10.6	8.2	10.8	8.0	10.4	9.4	9.7	9.4	11.0	9.8	9.7	8.7
11	10.4	8.2	10.7	8.2	10.6	9.9	9.5	9.2	11.0	9.9	10.0	8.3
12	10.2	8.0	10.9	8.5	10.6	10.1	9.4	9.3	11.1	9.6	9.8	8.2
13	10.1	7.8	10.3	8.3	10.6	10.1	9.3	9.0	10.8	9.2	9.8	7.2
14	9.6	7.7	10.3	8.2	10.6	10.1	9.5	8.9	10.6	9.3	10.6	8.9
15	9.6	7.5	10.5	8.4	10.7	10.3	9.5	8.9	10.8	9.1	10.7	8.8
16	9.7	7.7	10.6	8.6	10.7	10.1	9.4	8.9	10.8	8.8	10.7	8.4
17	9.6	7.6	10.8	8.0	11.2	9.9	9.5	8.5	10.5	8.7	10.3	9.3
18	9.9	8.3	10.9	7.8	10.5	9.8	9.3	8.5	10.7	9.1	10.7	9.2
19	10.0	8.2	10.9	7.9	10.5	10.0	9.4	8.4	10.7	8.7	10.7	9.1
20	10.1	8.2	11.2	8.3	10.5	9.9	9.4	8.3	10.7	8.6	10.5	8.8
21	10.0	7.9	10.8	8.6	10.4	9.8	9.3	8.2	10.6	8.7	10.8	8.4
22	10.0	7.7	10.2	8.6	10.4	9.7	8.8	8.2	9.9	9.3	10.9	7.5
23	9.9	7.7	10.3	8.5	10.2	9.8	8.8	8.1	10.5	8.9	10.9	7.4
24	9.9	7.6	10.2	8.6	10.0	9.8	12.4	8.8	10.2	8.8	10.2	8.0
25	10.0	7.5	10.2	8.3	10.4	9.6	12.5	11.8	10.3	9.4	10.2	8.5
26	10.2	7.9	10.2	8.6	10.2	9.7	12.4	11.6	10.4	9.5	10.3	8.0
27	10.1	8.0	9.9	8.9	10.0	9.6	12.5	9.6	10.4	8.8	10.3	7.5
28	10.1	7.9	9.6	8.6	10.2	9.6	---	---	10.2	8.6	10.5	9.2
29	10.1	7.8	9.7	9.0	10.1	9.5	---	---	---	---	10.4	9.5
30	10.0	7.8	9.8	8.9	9.9	9.4	---	---	---	---	10.4	7.8
31	10.1	7.9	---	---	9.9	9.2	---	---	---	---	11.2	8.5

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10.8	9.2	8.5	6.6					---	---	9.2	7.4
2	11.0	9.7	9.4	6.0					8.7	5.8	9.4	6.8
3	11.1	9.7	9.2	6.9					9.0	5.6	10.1	6.5
4	---	---	9.1	7.1					8.9	5.7	9.7	6.9
5	11.3	9.5	9.7	6.3					8.6	6.3	10.5	6.9
6	11.5	9.8	8.8	6.2					8.2	6.0	10.2	7.0
7	12.4	8.9	9.4	6.1					8.6	6.4	9.6	6.8
8	12.4	8.8	9.4	6.1					9.0	6.3	9.9	7.0
9	12.5	9.0	9.4	6.0					8.4	6.1	10.1	7.0
10	11.8	9.3	9.1	7.3					9.0	6.1	9.2	6.3
11	11.9	10.4	10.1	7.1					8.4	6.2	10.3	6.6
12	12.2	10.9	10.2	7.3					9.0	6.5	9.2	7.0
13	12.9	10.9	8.6	6.0					9.0	6.3	10.2	6.6
14	11.9	9.8	8.7	8.0					8.7	5.7	10.0	6.8
15	12.6	10.8	9.2	7.4					8.8	5.9	10.5	6.2
16	11.7	9.1	10.6	7.6					8.7	6.3	10.1	6.5
17	10.9	8.0	11.3	7.5					8.6	6.1	9.4	6.2
18	9.5	7.4	11.2	8.0					8.6	5.7	9.9	6.8
19	---	---	10.8	7.8					8.4	5.8	10.3	7.1
20	---	---	11.2	7.0					8.0	6.5	9.9	6.9
21	---	---	9.9	6.6					8.6	6.3	---	---
22	---	---	9.5	6.5					8.7	6.6	---	---
23	---	---	9.7	7.9					8.3	6.3	---	---
24	12.2	9.3	---	---					9.6	6.8	---	---
25	11.6	8.3	---	---					9.5	6.3	---	---
26	10.9	8.5	---	---					9.8	6.7	---	---
27	9.9	7.9	---	---					10.1	7.1	---	---
28	9.5	7.1	---	---					10.5	7.0	---	---
29	8.8	5.4	---	---					10.2	7.5	---	---
30	8.8	5.7	---	---					9.8	7.2	---	---
31	---	---	---	---					9.1	6.9	---	---

GREEN RIVER BASIN

09306007 PICEANCE CREEK BELOW RIO BLANCO, CU--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCENTRATION (MG/L)		MEAN CONCENTRATION (MG/L)		MEAN CONCENTRATION (MG/L)		MEAN CONCENTRATION (MG/L)		MEAN CONCENTRATION (MG/L)		MEAN CONCENTRATION (MG/L)						
	LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)						
OCTOBER			NOVEMBER			DECEMBER			JANUARY			FEBRUARY			MARCH		
1	32	.45	65	1.3	103	2.8	---	5.0	180	2.5	---	3.5					
2	22	.37	56	1.3	96	2.6	---	1.5	165	2.2	---	3.5					
3	25	.50	60	1.3	94	2.4	---	3.5	116	1.8	---	3.5					
4	13	.20	65	1.4	142	3.2	---	12	82	1.2	---	5.0					
5	19	.24	95	1.9	109	2.5	---	3.5	74	1.2	---	8.0					
6	16	.17	108	2.2	118	2.7	---	.50	65	1.0	---	5.0					
7	32	.37	36	.72	64	1.5	---	1.5	65	.97	---	5.0					
8	48	.52	49	.93	90	2.2	---	7.8	68	1.1	---	5.0					
9	23	.20	40	.71	132	3.0	---	5.5	86	1.3	---	3.5					
10	13	.12	66	1.3	70	1.6	---	2.2	92	1.6	---	1.5					
11	9	.08	62	1.2	65	1.3	---	.70	127	1.9	---	3.5					
12	12	.14	142	2.7	72	1.4	---	1.5	148	2.5	---	3.5					
13	8	.09	80	1.6	50	1.0	---	4.2	140	2.1	---	6.5					
14	16	.14	45	.90	54	1.1	---	2.2	163	2.4	136	2.3					
15	20	.19	38	.76	70	1.3	---	3.5	100	1.5	170	3.6					
16	30	.50	22	.42	35	.66	---	.10	95	1.4	137	2.6					
17	20	.36	35	.59	78	1.4	---	1.5	120	1.7	112	1.9					
18	16	.29	28	.47	51	.91	---	1.5	130	1.8	123	2.1					
19	31	.55	48	.80	52	.87	---	.10	112	1.7	282	5.6					
20	42	.75	54	.90	67	1.2	---	.10	88	1.2	150	2.5					
21	30	.45	68	1.5	50	.89	---	.05	84	1.2	110	2.1					
22	34	.48	103	2.5	78	1.4	---	.05	90	1.3	184	4.2					
23	20	.22	135	3.1	68	1.3	---	.10	66	1.0	1150	25					
24	30	.37	225	5.4	35	.70	238	3.1	105	1.6	2100	50					
25	38	.53	256	6.8	52	.87	---	.05	150	2.3	2150	87					
26	19	.22	72	1.8	48	.80	---	.50	175	3.3	432	12					
27	31	.49	92	2.4	24	.43	---	1.5	---	6.5	405	8.9					
28	38	.53	78	2.1	---	.50	210	3.7	---	6.5	666	18					
29	60	1.0	84	2.3	---	.50	220	4.2	---	---	711	11					
30	54	1.2	88	2.4	---	1.5	162	2.7	---	---	526	6.8					
31	50	1.1	---	---	---	1.5	115	2.0	---	---	248	2.5					
TOTAL	---	12.82	---	53.70	---	46.03	---	76.35	---	56.77	---	305.1					

SUSPENDED-SEDIMENT: WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

[illegible]

GREEN RIVER BASIN

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°49'09"N, long 108°11'08"W, in SE¼NE¼ sec.5, T.3 S., R.96 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 0.6 mi (1.0 km) upstream from mouth, about 300 ft (91 m) above mouth of west Fork Stewart Gulch, and 14.2 mi (22.8 km) west of Rio Blanco.

DRAINAGE AREA.--43.4 mi² (112.4 km²), revised.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,392 ft (1,948 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Diversion immediately above gage for irrigation of about 20 acres (81,000 m²) of grassland (36 acre-ft or 44,400 m³ this year).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33 ft³/s (1.08 m³/s) July 19, 1977, gage height, 4.05 ft (1.234 m); no flow Aug. 7, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 38 ft³/s (1.08 m³/s) July 19, gage height, 4.05 ft (1.234 m); minimum daily, 0.10 ft³/s (0.003 m³/s) Aug. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.76	1.4	1.6	1.4	1.6	2.0	1.7	1.3	1.0	1.3	1.3	1.0
2	1.2	1.4	1.6	1.4	1.6	2.0	1.7	1.3	1.0	1.3	1.3	1.0
3	1.3	1.4	1.6	1.4	1.7	2.1	1.7	1.3	1.0	1.3	1.3	2.0
4	1.5	1.4	1.6	1.4	1.7	2.1	1.7	1.3	1.0	1.3	1.4	.93
5	1.5	1.4	1.6	1.4	1.7	2.0	1.8	1.2	1.0	1.3	1.4	.93
6	1.5	1.4	1.6	1.4	1.7	2.0	1.7	1.3	1.0	1.4	1.4	1.0
7	1.5	1.5	1.5	1.5	1.7	2.1	1.7	1.2	1.0	1.4	1.4	1.0
8	1.5	1.5	1.5	1.5	1.7	2.1	1.6	1.2	1.0	1.4	1.4	1.2
9	1.4	1.5	1.5	1.5	1.6	2.0	1.6	1.3	1.0	1.4	1.4	1.1
10	1.4	1.5	1.5	1.5	1.6	2.0	1.6	1.3	1.0	1.4	.73	1.1
11	1.4	1.5	1.5	1.5	1.7	2.1	1.6	1.3	1.0	1.4	.13	1.1
12	1.5	1.5	1.5	1.5	1.7	2.1	1.6	1.3	1.0	1.3	.13	1.1
13	1.5	1.5	1.5	1.6	1.7	2.0	1.6	1.3	1.0	1.3	.15	1.0
14	1.5	1.5	1.5	1.6	1.8	1.7	1.6	1.4	1.0	1.3	.15	1.0
15	1.5	1.5	1.5	1.6	2.0	1.7	1.6	1.4	1.0	1.2	.15	1.1
16	1.5	1.5	1.5	1.7	1.8	1.7	1.6	1.2	1.1	1.3	.15	1.1
17	1.5	1.5	1.5	1.7	1.8	1.6	1.6	1.3	1.1	1.2	.22	1.1
18	1.5	1.5	1.4	1.7	1.8	1.6	1.6	1.3	1.1	1.1	.25	1.1
19	1.5	1.5	1.4	1.7	1.8	1.7	1.5	1.3	1.1	1.8	.25	1.1
20	1.5	1.4	1.4	1.7	1.8	1.7	1.5	1.2	1.1	1.3	.10	1.1
21	1.5	1.5	1.4	1.7	1.7	1.7	1.5	1.2	1.2	1.3	.13	1.1
22	1.6	1.5	1.4	1.7	1.7	1.7	1.5	1.1	1.2	1.4	.15	1.1
23	1.6	1.5	1.4	1.8	1.7	1.6	1.5	1.1	1.2	3.3	.15	1.0
24	1.6	1.5	1.4	1.7	1.7	1.6	1.5	1.1	1.2	1.5	.17	1.0
25	1.6	1.5	1.4	1.7	1.8	1.6	1.5	1.1	1.2	1.4	.20	1.0
26	1.6	1.5	1.4	1.7	1.8	1.6	1.5	1.1	1.2	1.3	.20	1.0
27	1.6	1.6	1.4	1.6	1.9	1.5	1.5	1.1	1.2	1.3	.81	1.0
28	1.5	1.6	1.4	1.6	1.9	1.6	1.4	1.0	1.2	1.3	1.0	1.0
29	1.5	1.7	1.4	1.6	---	1.6	1.4	1.0	1.2	1.3	1.0	1.0
30	1.5	1.7	1.4	1.6	---	1.6	1.3	1.0	1.2	1.3	1.0	1.0
31	1.4	---	1.4	1.6	---	1.6	---	1.0	---	1.3	1.0	---
TOTAL	45.46	44.9	45.7	49.0	48.7	56.0	47.2	37.5	32.5	43.4	20.52	32.26
MEAN	1.47	1.50	1.47	1.58	1.74	1.81	1.57	1.21	1.08	1.40	.66	1.08
MAX	1.6	1.7	1.6	1.8	2.0	2.1	1.8	1.4	1.2	3.3	1.4	2.0
MIN	.76	1.4	1.4	1.4	1.6	1.5	1.3	1.0	1.0	1.1	.10	.93
AC-FT	90	89	91	97	97	111	94	74	64	86	41	64
CAL YR 1976	TOTAL	624.38	MEAN	1.71	MAX	3.7	MIN	.04	AC-FT	1240		
WTR YR 1977	TOTAL	503.14	MEAN	1.38	MAX	3.3	MIN	.10	AC-FT	998		

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 current year.

WATER TEMPERATURE: October 1974 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1974. Pumping sediment sampler since October 1974.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 2,200 micromhos Nov. 10, 1975; minimum, 635 micromhos Sept. 3, 1977.

WATER TEMPERATURES: Maximum, 20.5°C July 3, 1976; June 3, 1977; minimum, 0.5°C Jan. 9, 1977.

DISSOLVED OXYGEN: Maximum, 16.6 mg/L Jan. 13, 1976; minimum, 3.6 mg/L Aug. 19, 20, 1977.

pH: Maximum, 8.7 units June 24, 1976; minimum, 7.6 units Oct. 7, 1975.

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 (9.1 t) June 8, 1975; minimum daily, no flow Aug. 7-9, 1975.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,790 micromhos June 25; minimum, 635 micromhos Sept. 3.

WATER TEMPERATURES: Maximum, 20.5°C June 3; minimum, 0.5°C Jan. 9.

DISSOLVED OXYGEN: Maximum, 12.6 mg/L Dec. 13; minimum, 3.6 mg/L Aug. 19, 20.

pH: Maximum, 8.5 units Feb. 22, many days during April; minimum, 8.0 units many days during the year.

SEDIMENT CONCENTRATIONS: Maximum daily, 500 mg/L, estimated Sept. 3; minimum daily, 1 mg/L several days during January.

SEDIMENT LOADS: Maximum daily, 4.0 tons (3.6 t), July 23; minimum daily, 0.00 ton (0.00t) several days during January.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	pH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)
OCT 05...	1030	1.4	1300	8.4	8.5	4	10.5	550	170	95	76	120
NOV 16...	1000	1.5	1300	8.2	6.0	4	11.9	520	100	93	70	120
JAN 24...	1215	1.7	1330	8.2	8.0	5	10.7	540	170	92	75	120
MAR 14...	1000	1.5	1360	8.3	7.5	--	12.1	550	140	95	76	120
MAY 20...	0900	1.3	1270	8.2	6.5	--	8.2	560	160	96	78	130
JUL 12...	1330	1.1	1290	8.2	15.0	--	8.4	560	140	94	79	130
AUG 18...	1000	1.3	1270	8.2	11.0	--	7.2	550	120	94	77	130

DATE	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED (SUM OF CONSTITU- ENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)
OCT 05...	2.2	1.3	464	0	381	390	7.7	.3	17	943	1.28	3.74
NOV 16...	2.3	1.3	509	0	417	360	6.7	.3	15	923	1.26	3.74
JAN 24...	2.3	1.3	452	0	371	360	6.7	.3	15	901	1.26	4.26
MAR 14...	2.2	1.3	503	0	413	360	6.8	.5	15	931	1.27	3.92
MAY 20...	2.4	1.3	490	0	400	380	6.7	.3	13	952	1.29	3.44
JUL 12...	2.4	1.2	510	0	420	380	6.9	.2	15	963	1.31	3.09
AUG 18...	2.4	1.2	530	0	430	360	7.0	.3	16	950	1.29	3.51

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED IRON (FE) (JG/L)
OCT 05...	--	--	1.4	.01	.36	--	.37	.03	.03	80	70
NOV 16...	--	--	1.2	.01	.33	--	.34	.02	.01	80	20
JAN 24...	1.2	.01	1.2	.01	--	.37	--	.01	.03	70	20
MAR 14...	--	--	1.2	--	--	--	--	--	.01	80	20
MAY 20...	--	--	1.2	--	--	--	--	--	.01	--	20
JUL 12...	--	--	1.1	--	--	--	--	--	.01	--	130
AUG 18...	--	--	.74	--	--	--	--	--	.03	--	100

DATE	DIS- SOLVED ARSENIC (AS) (JG/L)	DIS- SOLVED BARIUM (BA) (JG/L)	DIS- SOLVED CAD- MIUM (CD) (JG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
OCT 05...	1	--	--	--	--	--	10	--
NOV 16...	1	--	--	--	--	--	0	--
JAN 24...	2	0	0	1	2	10	20	.1
FEB 09...	--	--	--	--	--	--	--	--
MAR 14...	1	100	0	1	2	10	20	.0
MAY 20...	--	--	--	--	--	--	20	--
JUL 12...	--	--	--	--	--	--	50	--
AUG 18...	--	--	--	--	--	--	30	--

DATE	DIS- SOLVED SELE- NIUM (SE) (JG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDED ORGANIC CARBON (C) (MG/L)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
OCT 05...	--	--	--	2.6	.1	--	--
NOV 16...	--	--	--	6.1	.3	--	--
JAN 24...	2	2600	10	--	--	--	--
FEB 09...	--	--	--	--	--	15	.06
MAR 14...	1	2800	10	--	--	--	--
MAY 20...	--	--	--	--	--	--	--
JUL 12...	--	--	--	--	--	--	--
AUG 18...	--	--	--	--	--	--	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			---	---	1170	1230	1210	1220	---	1320	1280	1300
2			---	---	1180	1170	1210	1250	---	1340	1280	1300
3			---	---	1140	1210	1250	1220	---	1310	1280	1210
4			---	---	1150	1170	1330	1230	---	1290	1280	1310
5			---	---	1160	1170	1350	1270	---	1300	1260	1310
6			---	---	1160	1200	1370	1270	---	1280	1280	---
7			---	---	1150	1230	1340	1290	---	1270	1270	---
8			1260	---	1160	1250	1350	1280	---	1270	1270	---
9			1250	---	1160	1230	1350	1310	---	1280	1280	---
10			1200	---	1170	1170	1360	1250	---	1260	1280	---
11			1150	---	1160	1210	1310	---	---	1260	1280	---
12			1160	---	1170	1230	1290	---	---	---	1280	---
13			1180	---	1190	1260	1300	---	---	---	1270	---
14			1200	---	1180	1190	1260	---	---	---	1270	1330
15			1140	---	1190	1220	1120	---	---	---	1270	1330
16			1140	---	1200	1240	1180	---	1340	---	1270	1340
17			1130	---	1210	1200	1190	---	1340	---	1260	1340
18			1160	1140	1190	1200	1230	---	1340	---	1260	1340
19			---	1110	1200	1190	1160	---	1320	---	1260	1340
20			---	1130	1190	1200	1200	---	1300	---	1270	1350
21			---	1170	1200	1200	1220	---	1280	---	1270	1350
22			---	1180	1190	1210	1240	---	1300	---	1270	1300
23			---	1170	1180	1220	1260	---	1300	---	1270	1260
24			---	1120	1190	1210	1260	---	1390	---	1270	1260
25			---	1110	1170	1190	1280	---	1590	---	1270	1250
26			---	1120	1140	1200	1260	---	1400	---	1280	1260
27			---	1130	1190	1220	1190	---	1370	1280	1260	1270
28			---	1130	1200	1130	1180	---	1370	1290	1290	1260
29			---	1120	---	1130	1250	---	1340	1280	1290	1310
30			---	1120	---	1160	1250	---	1340	1280	1290	1370
31			---	1150	---	1190	---	---	---	1280	1300	---

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

MONTH

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10.0	5.0	13.0	6.5	17.0	6.5	16.0	7.5	17.0	7.0	16.0	8.5
2	9.0	4.0	17.5	5.5	19.5	7.0	16.0	9.0	17.0	7.5	15.5	7.5
3	10.5	3.5	12.5	5.5	20.5	8.0	15.0	8.0	14.5	8.0	12.5	8.0
4	14.0	4.5	12.5	6.0	20.0	7.5	13.0	9.0	14.0	8.5	16.0	8.0
5	12.5	5.0	17.0	5.5	20.0	7.5	15.5	8.0	15.5	9.5	17.0	7.5
6	16.0	4.0	16.5	6.5	17.5	7.5	14.5	8.0	15.0	9.0	---	---
7	15.5	4.5	18.0	5.5	15.5	8.0	14.5	7.5	16.5	8.5	---	---
8	16.5	4.5	17.0	5.5	16.5	8.0	15.0	7.0	15.5	9.0	---	---
9	16.0	4.5	18.5	6.0	17.0	9.0	16.0	8.5	16.0	7.5	---	---
10	16.0	5.0	14.0	5.5	18.0	7.5	16.0	7.0	17.5	7.5	---	---
11	13.0	5.5	16.0	4.5	18.0	6.5	15.5	7.0	15.5	8.0	---	---
12	10.0	5.0	15.0	5.0	18.5	6.0	---	---	17.0	7.5	---	---
13	13.5	4.5	15.5	6.5	19.0	6.0	---	---	13.5	8.0	---	---
14	15.5	4.5	10.0	6.5	19.0	6.0	---	---	14.5	8.0	14.0	7.0
15	8.0	6.0	15.0	7.5	18.5	6.5	---	---	15.5	9.0	15.0	8.0
16	15.0	6.0	17.0	6.0	18.0	6.0	---	---	16.0	10.0	15.0	7.5
17	17.5	5.0	16.5	7.0	18.5	7.0	---	---	13.0	9.5	14.5	7.5
18	16.0	5.5	16.5	5.5	18.5	7.0	---	---	15.5	10.0	14.5	5.0
19	---	---	17.0	4.5	18.0	6.0	---	---	16.0	9.0	13.0	6.5
20	13.5	5.0	16.5	5.5	17.5	6.5	---	---	16.5	9.0	15.0	6.5
21	16.5	4.0	18.5	4.5	15.0	6.0	---	---	15.5	8.5	13.0	7.0
22	17.0	4.5	16.0	5.0	17.5	7.0	---	---	17.0	8.5	14.0	6.5
23	17.5	5.0	14.5	6.0	18.0	7.0	---	---	16.5	8.5	13.0	6.0
24	16.0	5.5	15.0	5.5	17.0	8.0	---	---	15.0	9.5	13.5	5.0
25	17.5	5.5	16.5	7.5	16.5	8.0	---	---	17.5	10.0	14.0	5.0
26	14.0	5.5	15.5	7.0	18.5	8.5	---	---	16.5	9.0	14.0	7.0
27	11.5	6.0	14.5	6.0	16.5	8.5	13.0	8.5	13.0	8.5	14.5	6.0
28	14.5	6.0	15.0	7.0	17.5	8.0	18.0	8.5	14.5	8.5	15.0	7.0
29	18.0	6.5	19.0	6.0	16.5	7.5	16.0	8.0	15.0	7.0	13.5	7.0
30	18.5	6.0	19.0	6.5	17.5	7.5	17.5	8.5	15.5	8.0	11.0	5.5
31	---	---	19.5	6.0	---	---	17.0	7.5	14.5	8.0	---	---

PH (UNITS), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			---	---	8.2	8.3	8.3	8.4	8.1	8.3	8.2	8.1
2			---	---	8.2	8.3	8.3	8.4	8.1	8.3	8.2	8.2
3			---	---	8.2	8.3	8.3	8.4	8.1	8.3	8.2	8.1
4			---	---	8.2	8.3	8.4	8.4	8.1	8.3	8.2	8.1
5			---	---	8.2	8.3	8.4	8.3	8.1	8.3	8.1	8.1
6			---	---	8.2	8.2	8.4	8.3	8.1	8.3	8.2	---
7			8.2	8.2	8.2	8.2	8.4	8.3	8.1	8.3	8.2	---
8			8.2	8.3	8.3	8.2	8.4	8.3	8.1	8.3	8.2	---
9			8.2	8.2	8.3	8.2	8.4	8.3	8.1	8.3	8.2	---
10			8.2	8.2	8.3	8.2	8.3	8.4	8.2	8.3	8.2	---
11			8.2	8.2	8.3	8.3	8.3	8.4	8.2	8.3	8.1	---
12			8.2	8.2	8.3	8.2	8.3	8.2	8.2	8.2	8.2	---
13			8.2	8.2	8.3	8.2	8.3	8.2	8.2	8.4	8.2	---
14			8.2	8.3	8.3	8.1	8.3	8.2	8.2	---	8.2	8.2
15			8.2	8.2	8.3	8.2	8.3	8.2	8.3	---	8.1	8.2
16			8.2	8.2	8.3	8.2	8.3	8.2	8.3	---	8.1	8.2
17			8.2	8.1	8.3	8.2	8.3	8.2	8.3	---	8.1	8.2
18			8.2	8.1	8.3	8.2	8.3	---	8.3	---	8.1	8.2
19			---	8.1	8.3	8.2	8.4	8.2	8.3	---	8.2	8.2
20			---	8.1	8.3	8.2	8.4	8.2	8.3	---	8.1	8.2
21			---	8.1	8.3	8.2	8.4	8.1	8.3	---	8.1	8.2
22			---	8.1	8.3	8.2	8.4	8.1	8.3	---	8.2	8.2
23			---	8.1	8.3	8.1	8.4	8.2	8.3	---	8.1	8.2
24			---	8.1	8.3	8.2	8.3	8.2	8.3	---	8.1	8.2
25			---	8.1	8.3	8.2	8.3	8.1	8.3	---	8.1	8.2
26			---	8.1	8.3	8.2	8.3	8.1	8.3	---	8.2	8.2
27			---	8.1	8.3	8.2	8.4	8.1	8.3	8.2	8.1	8.2
28			---	8.1	8.3	8.3	8.4	8.1	8.3	8.2	8.2	8.2
29			---	8.1	---	8.3	8.3	8.1	8.3	8.2	8.2	8.2
30			---	8.2	---	8.3	8.3	8.1	8.3	8.2	8.2	8.2
31			---	8.2	---	8.3	---	8.1	---	8.2	8.2	---

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, LU--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1					---	---	---	---	11.4	7.6	11.7	7.5
2					---	---	---	---	12.0	7.6	10.8	7.4
3					---	---	---	---	11.5	7.6	---	---
4					---	---	---	---	11.7	7.7	12.2	7.7
5					---	---	---	---	11.4	7.6	11.8	7.7
6					---	---	---	---	11.7	7.6	12.0	7.8
7					---	---	9.3	8.1	11.7	7.7	12.5	7.9
8					12.5	7.9	11.0	8.0	11.9	7.7	---	---
9					---	---	10.8	8.1	11.9	7.6	12.0	7.7
10					---	---	10.2	8.1	12.1	7.6	10.4	7.7
11					12.0	8.1	10.6	8.0	11.8	7.6	12.3	8.0
12					12.4	8.1	10.7	7.9	12.3	7.7	12.5	7.9
13					12.6	8.1	10.8	7.8	11.8	7.6	---	---
14					---	---	10.4	7.9	11.5	7.7	12.4	7.9
15					---	---	10.6	7.9	12.1	7.7	---	---
16					---	---	10.3	7.9	12.5	7.6	---	---
17					---	---	11.0	7.9	12.4	7.6	---	---
18					---	---	11.2	7.8	---	---	---	---
19					---	---	11.0	7.7	12.2	7.6	---	---
20					---	---	11.0	7.7	12.5	7.6	---	---
21					---	---	11.7	7.6	---	---	---	---
22					---	---	10.1	7.4	12.0	7.3	---	---
23					---	---	11.2	7.4	12.1	7.4	---	---
24					---	---	11.1	7.4	12.3	7.4	---	---
25					---	---	11.0	7.6	11.1	7.4	---	---
26					---	---	10.8	7.5	11.4	7.5	---	---
27					---	---	11.1	7.5	---	---	---	---
28					---	---	11.1	7.6	12.2	7.6	---	---
29					---	---	11.2	7.6	---	---	---	---
30					---	---	11.2	7.6	---	---	---	---
31					---	---	11.5	7.6	---	---	---	---

GREEN RIVER BASIN

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO---Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	9.6	6.9	10.1	7.2	9.1	7.1	8.0	6.5	7.1	5.4
2	---	---	10.0	6.9	10.8	6.3	8.8	7.0	8.0	6.5	7.4	5.5
3	11.8	8.1	9.2	6.9	11.0	8.9	9.1	7.1	7.9	6.5	7.5	4.9
4	---	---	8.9	7.0	11.0	9.0	9.2	6.8	8.0	6.6	7.0	5.1
5	12.4	8.3	9.3	6.9	10.9	8.7	9.0	7.1	8.0	5.7	7.2	5.2
6	---	---	9.6	6.0	11.0	8.9	8.9	7.0	7.9	6.2	---	---
7	---	---	9.4	6.0	10.6	8.8	8.8	6.9	8.1	6.0	---	---
8	---	---	9.4	7.4	10.6	8.6	8.8	6.9	8.2	6.1	---	---
9	12.3	7.5	9.4	7.3	10.3	8.5	8.5	6.8	8.4	6.0	---	---
10	11.7	7.3	8.9	7.4	10.1	8.4	8.6	6.8	8.1	4.7	---	---
11	10.0	7.2	8.9	7.5	10.1	8.4	8.6	6.7	7.1	4.9	---	---
12	9.7	7.2	9.3	7.6	10.0	8.2	8.4	7.3	7.2	4.6	---	---
13	10.0	6.9	10.3	6.6	9.9	8.0	---	---	7.9	5.0	---	---
14	---	---	8.9	7.5	9.7	7.9	---	---	8.1	4.7	9.0	5.8
15	11.3	6.9	9.3	7.7	9.5	7.8	---	---	8.4	4.1	9.2	5.8
16	11.7	6.7	9.3	7.7	9.6	7.7	---	---	8.6	4.1	9.3	6.1
17	11.9	6.4	9.2	7.7	9.6	7.6	---	---	8.5	4.4	10.0	6.2
18	12.2	6.3	9.3	7.9	9.5	7.7	---	---	8.9	4.4	10.1	6.2
19	---	---	9.6	8.0	9.5	7.7	---	---	8.9	3.6	10.4	6.2
20	11.3	6.4	9.1	7.2	9.6	7.7	---	---	8.7	3.6	10.0	6.4
21	11.8	6.5	9.2	7.1	9.5	7.7	---	---	9.0	3.9	9.6	6.7
22	12.3	6.5	8.8	7.0	9.5	7.5	---	---	9.8	3.9	9.8	6.1
23	12.4	6.6	9.0	6.9	9.6	7.4	---	---	9.7	4.0	9.6	6.3
24	11.6	6.6	9.0	6.9	9.6	7.2	---	---	9.8	4.2	9.5	6.4
25	12.1	6.6	9.4	6.8	9.3	7.2	---	---	9.2	3.9	9.4	6.0
26	11.0	6.6	9.0	6.7	9.3	7.1	---	---	9.1	4.1	9.2	6.2
27	10.0	5.2	9.2	6.7	9.2	7.2	7.8	7.0	7.0	4.8	9.2	6.0
28	10.9	6.7	9.2	6.7	9.5	7.1	7.9	6.2	7.4	5.6	9.0	5.9
29	11.1	6.7	9.7	6.6	9.4	7.2	7.9	6.4	7.3	5.2	9.6	6.0
30	10.5	6.8	9.6	6.5	9.1	7.1	7.8	6.3	7.2	5.3	9.4	6.4
31	---	---	9.7	6.5	---	---	8.0	6.4	7.3	5.4	---	---

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

09306022 STEWART GULCH ABOVE WEST FURK, NEAR RIO BLANCO, CO--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	.05	80	.30	18	.08	---	.02	---	.02	---	.10
2	---	.05	61	.23	14	.06	---	.02	---	.03	---	.10
3	---	.06	61	.23	29	.13	---	.02	---	.03	---	.15
4	---	.08	56	.21	46	.20	---	.01	---	.04	---	.15
5	20	.08	51	.19	21	.09	---	.01	---	.04	---	.15
6	33	.13	25	.09	14	.06	---	.00	---	.05	---	.15
7	21	.09	19	.08	15	.06	1	.00	---	.05	---	.20
8	12	.05	40	.16	16	.06	---	.00	---	.06	---	.20
9	23	.09	26	.11	4	.02	---	.00	12	.05	---	.20
10	9	.03	41	.17	5	.02	---	.00	---	.05	---	.20
11	28	.11	36	.15	14	.06	---	.00	---	.05	---	.25
12	44	.18	26	.11	6	.02	---	.00	---	.05	---	.25
13	17	.07	16	.06	7	.03	---	.00	---	.05	---	.25
14	29	.12	40	.16	3	.01	---	.01	---	.06	61	.28
15	41	.17	15	.06	10	.04	---	.01	---	.07	---	.25
16	20	.08	27	.11	5	.02	---	.01	---	.06	---	.25
17	24	.10	23	.09	18	.07	---	.01	---	.06	---	.20
18	25	.10	46	.19	---	.07	---	.01	---	.06	---	.20
19	20	.08	24	.10	---	.05	---	.01	---	.06	---	.20
20	25	.10	47	.18	---	.05	---	.01	---	.06	---	.15
21	50	.20	39	.16	---	.05	---	.01	---	.06	---	.15
22	30	.13	46	.19	---	.05	---	.01	---	.06	---	.10
23	25	.11	30	.12	---	.05	---	.01	---	.06	---	.10
24	20	.09	30	.12	---	.04	3	.01	12	.06	19	.08
25	20	.09	57	.23	---	.04	---	.01	---	.07	---	.08
26	41	.18	54	.22	---	.04	---	.01	---	.07	---	.08
27	39	.17	33	.14	---	.04	---	.02	---	.08	---	.07
28	26	.11	45	.19	---	.04	---	.02	---	.09	---	.07
29	52	.21	60	.28	---	.03	---	.02	---	---	---	.07
30	55	.22	7	.03	---	.03	---	.02	---	---	17	.07
31	62	.23	---	---	---	.03	---	.02	---	---	27	.12
TOTAL	---	3.56	---	4.66	---	1.64	---	0.31	---	1.55	---	4.87

GREEN RIVER BASIN

J9306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CU--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCENTRATION (MG/L)		MEAN CONCENTRATION (MG/L)		MEAN CONCENTRATION (MG/L)		MEAN CONCENTRATION (MG/L)		MEAN CONCENTRATION (MG/L)		MEAN CONCENTRATION (MG/L)	
	LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)	
APRIL												
1	86	.39	35	.12	23	.06	10	.04	49	.17	---	.15
2	80	.37	49	.17	20	.05	8	.03	32	.11	---	.10
3	75	.34	28	.10	24	.06	12	.04	28	.10	---	3.0
4	70	.32	37	.13	9	.02	12	.04	12	.05	---	.08
5	42	.20	44	.14	29	.08	6	.02	27	.10	---	.08
MAY												
6	35	.16	38	.13	19	.05	8	.03	31	.12	---	.08
7	33	.15	29	.09	15	.04	11	.04	33	.12	---	.08
8	35	.15	68	.22	9	.02	9	.03	15	.06	---	.08
9	22	.10	55	.19	28	.08	9	.03	27	.10	---	.08
10	23	.10	45	.16	32	.09	10	.04	84	.17	---	.08
JUNE												
11	22	.10	41	.14	35	.09	13	.05	---	.03	---	.08
12	21	.09	---	.15	23	.06	7	.02	---	.02	26	.08
13	40	.17	---	.15	26	.07	10	.04	---	.02	---	.06
14	100	.43	---	.15	16	.04	5	.02	---	.02	---	.06
15	43	.19	---	.20	24	.06	12	.04	---	.02	18	.05
JULY												
16	87	.38	---	.20	38	.11	33	.12	---	.02	10	.03
17	33	.14	---	.20	16	.05	20	.06	---	.02	33	.10
18	24	.10	---	.20	14	.04	28	.08	23	.02	10	.03
19	14	.06	---	.20	38	.11	60	1.3	---	.02	10	.03
20	29	.12	64	.20	30	.09	155	.54	---	.01	14	.04
AUGUST												
21	36	.15	42	.14	21	.07	65	.23	---	.01	8	.02
22	18	.07	45	.13	---	.06	62	.23	---	.01	21	.06
23	20	.08	26	.08	---	.06	---	4.0	---	.01	18	.05
24	26	.11	33	.10	---	.06	---	.30	---	.01	29	.08
25	21	.09	23	.07	28	.09	---	.20	---	.01	24	.06
SEPTEMBER												
26	16	.06	29	.09	11	.04	49	.17	---	.01	18	.05
27	23	.09	20	.06	4	.01	61	.21	---	.25	22	.06
28	24	.09	37	.10	12	.04	59	.21	9	.02	15	.04
29	22	.08	18	.05	---	.04	37	.13	80	.22	15	.04
30	42	.15	42	.11	---	.03	24	.08	54	.15	20	.05
31	---	---	42	.11	---	---	26	.09	75	.20	---	---
TOTAL	---	5.03	---	4.28	---	1.77	---	8.46	---	2.20	---	4.88
TOTAL LOAD FOR YEAR:		43.21	TONS.									

09306028 WEST FORK STEWART GULCH AT MOUTH, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°48'45", long 108°11'00", in SE $\frac{1}{4}$ sec. 5, T.3 S., R.96 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 300 ft (91 m) upstream from mouth and 13.8 mi (22.2 km) west of Rio Blanco.

DRAINAGE AREA.--15.7 mi² (40.7 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,443 ft (1,964 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Diversion above station for irrigation of small hay meadows.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38 ft³/s (1.08 m³/s) Sept. 3, 1977, gage height, 1.66 ft (0.506 m); no flow most days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 38 ft³/s (1.08 m³/s) Sept. 3, gage height, 1.66 ft (0.506 m); no flow except for Sept. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
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	.50
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	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.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	.00	.00	.00	.00	.00	.00	.50
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.017
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.50
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.0

CAL YR 1976 TOTAL 1.65 MEAN .005 MAX .30 MIN .00 AC-FT 3.3
WTR YR 1977 TOTAL 0.50 MEAN .001 MAX .50 MIN .00 AC-FT 1.0

NOTE.--NO GAGE-HEIGHT RECORD NOV. 17 TO JAN. 13.

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 (430 m) upstream from mouth and 14.8 mi (23.8 km) west of Rio Blanco.

DRAINAGE AREA.--3.62 mi² (9.38 km²).

WATER-DISCHARGE RECORD

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,372 ft (1,942.2 m), from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59 ft³/s (1.67 m³/s) Sept. 3, 1977, gage height, 2.92 ft (0.890 m), from rating curve extended above 40 ft³/s (1.13 m³/s), from slope-area measurement; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 59 ft³/s (1.67 m³/s) Sept. 3, gage height, 2.92 ft (0.890 m), from rating curve extended above 40 ft³/s (1.13 m³/s), from slope-area measurement; no flow most days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
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	7.5
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.60
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.60	.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	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.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	1.5	.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	.00	.00	.00	.00	1.54	.60	8.10
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.050	.019	.27
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.5	.60	7.5
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.1	1.2	16

CAL YR 1976 TOTAL 1.74 MEAN .005 MAX 1.3 MIN .00 AC-FT 3.5
WTR YR 1977 TOTAL 10.24 MEAN .028 MAX 7.5 MIN .00 AC-FT 20

NOTE.--NO GAGE-HEIGHT RECORD DEC. 25 TO FEB. 28.

GREEN RIVER BASIN

09306036 SORGHUM GULCH AT MOUTH, 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 current year.

WATER TEMPERATURE: October 1974 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1974. Pumping sediment sampler since October 1974.

REMARKS.--Flow occurred only on days shown.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Not determined.

WATER TEMPERATURES: Not determined.

SEDIMENT CONCENTRATIONS: Maximum daily, 8,020 mg/L Sept. 3; no flow many days during year.

SEDIMENT LOADS: Maximum daily, 424 tons (385 t) Sept. 3; no flow many days during year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	
JUL 19...	1815	1.5	305	7.8	250	210	100	0	36	3.3	21	.9	
DATE	TIME	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DIS-SOLVED SULFIDE (S) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	BROMIDE (BR) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	TOTAL FILTERABLE RESIDUE (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
JUL 19...	2.5	130	0	110	1.3	37	3.9	.2	.1	13	220	189	
DATE	TIME	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILTERABLE RESIDUE (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITROGEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	DIS-SOLVED ORGANIC NITROGEN (N) (MG/L)	DIS-SOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DIS-SOLVED ALUMINUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)
JUL 19...	.26	.77	920	1.2	.13	.17	1.1	1.2	2.4	.13	110	1	
DATE	TIME	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED MOLYBDENUM (MO) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)
JUL 19...	0	140	0	0	9	210	0	4	20	.0	1	0	
DATE	TIME	DIS-SOLVED STRONTIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	
JUL 19...	390	10	5.8	97	13	64	11	51	.00	7	0		

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN	LOADS	MEAN	LOADS	MEAN	LOADS	MEAN	LOADS	MEAN	LOADS	MEAN	LOADS
	CONCENTRATION (MG/L)		CONCENTRATION (MG/L)		CONCENTRATION (MG/L)		CONCENTRATION (MG/L)		CONCENTRATION (MG/L)		CONCENTRATION (MG/L)	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1							---	---		---	---	---
2							---	---		---	---	---
3							---	---		---	8020	424
4							---	---		---	200	.32
5							---	---		.30	---	---
6							---	---		---	---	---
7							---	---		---	---	---
8							---	---		---	---	---
9							---	---		---	---	---
10							---	---		---	---	---
11							---	---		---	---	---
12							---	---		---	---	---
13							---	---		---	---	---
14							---	---		---	---	---
15							---	---		---	---	---
16							---	---		---	---	---
17							---	---		---	---	---
18							---	---		---	---	---
19							589	24		---	---	---
20							---	---		---	---	---
21							---	---		---	---	---
22							---	---		---	---	---
23							---	.00		---	---	---
24							---	---		---	---	---
25							---	---		---	---	---
26							---	---		---	---	---
27							---	---		---	---	---
28							---	---		---	---	---
29							---	---		---	---	---
30							---	---		---	---	---
31							---	---		---	---	---
TOTAL							---	24.00		0.30	---	424.32
TOTAL LOAD FOR YEAR:			448.62		TONS.							

GREEN RIVER BASIN

09306039 CUTTONWOOD 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 (240 m) upstream from mouth and 15.4 mi (24.8 km) west of Rio Blanco.

DRAINAGE AREA.--1.20 mi² (3.11 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,353 ft (1,936 m), from topographic map.

REMARKS.--Records good. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 53 ft³/s (1.50 m³/s) Sept. 3, 1977, gage height, 2.94 ft (0.896 m); no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 53 ft³/s (1.50 m³/s) Sept. 3, gage height, 2.94 ft (0.896 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
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	.30	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.2
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00	.37	.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	.30	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00
13	.00	.00	.00	.00	.00	.04	.00	.00	.30	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.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	.30	.00	.30	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.58	.30	.00
20	.00	.00	.00	.00	.00	.06	.00	.00	.30	.00	.30	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12	.30	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.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	.30	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.30	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.30	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.04	.00	.00	.00	.70	.37	1.20
MEAN	.000	.000	.000	.000	.000	.001	.000	.000	.000	.023	.012	.040
MAX	.00	.00	.00	.00	.00	.04	.00	.00	.00	.58	.37	1.2
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.08	.00	.00	.00	1.4	.7	2.4

CAL YR 1976 TOTAL 1.26 MEAN .003 MAX .20 MIN .00 AC-FT 2.5
WTR YR 1977 TOTAL 2.31 MEAN .006 MAX 1.2 MIN .00 AC-FT 4.6

NOTE.--NO GAGE-HEIGHT RECORD JAN. 9 TO MAR. 1.

09306039 COTTONWOOD GULCH 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 current year.

WATER TEMPERATURE: April 1974 to current year.

SUSPENDED-SEDIMENT DISCHARGE: April 1974 to current year.

INSTRUMENTATION--water-quality monitor since April 1974. Automatic pumping sediment sampler since April 1974.

REMARKS--Flow occurred only on days shown. Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD--

SPECIFIC CONDUCTANCE: Maximum, 225 micromhos Mar. 24, 1976; minimum, 124 micromhos Mar. 27, 1976.

WATER TEMPERATURES: Maximum, 25.0°C Mar. 27, 1976; minimum, 4.5°C Mar. 24, 1976.

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 (181 t) Sept. 3, 1977; no flow many days each year.

EXTREMES FOR CURRENT YEAR--

SPECIFIC CONDUCTANCE: Not determined.

WATER TEMPERATURES: Not determined.

SEDIMENT CONCENTRATIONS: Maximum daily, 62,000 mg/L, estimated Sept. 3; no flow many days during year.

SEDIMENT LOADS: Maximum daily, 200 tons, estimated (181 t) Sept. 3; no flow many days during year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORPTION RATIO
JUL												
19...	1850	.58	363	7.8	220	850	99	0	29	6.3	34	1.5
21...	1200	7.4	240	8.2	--	--	79	--	26	3.3	18	.9
21...	1220	.12	225	8.2	--	--	68	0	22	3.1	14	.7

DATE	DIS-SOLVED POTASSIUM (K) (MG/L)	RICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DIS-SOLVED SULFIDE (S) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	BROMIDE (BR) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	TOTAL FILTERABLE RESIDUE (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
JUL												
19...	2.4	170	0	140	1.3	41	3.8	.7	.1	16	260	227
21...	2.1	--	0	--	--	11	2.3	.4	--	11	--	--
21...	1.7	120	0	98	--	14	1.5	.3	--	11	--	127

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILTERABLE RESIDUE (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITROGEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	DIS-SOLVED ORGANIC NITROGEN (N) (MG/L)	DIS-SOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DIS-SOLVED ALUMINUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)
JUL												
19...	.31	.36	6000	1.5	.15	.19	2.8	2.9	6.0	.13	30	7
21...	.25	--	--	1.9	--	--	--	--	--	.05	--	6
21...	.17	.04	--	--	--	--	--	--	--	--	--	4

DATE	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED POLYBENIDENUM (MO) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)
JUL												
19...	200	220	0	10	10	80	9	4	150	.0	3	3
21...	200	170	0	--	10	180	4	2	30	.0	--	0
21...	200	100	0	--	9	50	5	2	0	.0	--	0

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

[illegible]

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 (180 m) upstream from mouth and 16.2 mi (26.1 km) west of Rio Blanco.

DRAINAGE AREA.--1.06 mi² (2.75 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,335 ft (1,931 m), from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 451 ft³/s (12.8 m³/s) Sept. 3, 1977, gage height, 2.57 ft (0.783 m); no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 451 ft³/s (12.8 m³/s) Sept. 3, gage height, 2.57 ft (0.783 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
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	.30	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	12
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.1	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00
8	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.30	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00
12	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.30	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00
15	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.30	.00
16	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.30	.00
17	.00	.00	.00	.00	.00	.04	.00	.00	.00	.00	.30	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.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	.30	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.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	.30	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.30	---
TOTAL	.00	.00	.00	.00	.00	.09	.01	.00	.00	.00	1.10	12.00
MEAN	.000	.000	.000	.000	.000	.003	.000	.000	.000	.000	.035	.40
MAX	.00	.00	.00	.00	.00	.04	.01	.00	.00	.00	1.1	12
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.2	.02	.00	.00	.00	2.2	24
CAL YR 1976	TOTAL	0.03	MEAN .000	MAX .02	MIN .00	AC-FT	.06					
WTR YR 1977	TOTAL	13.20	MEAN .036	MAX 12	MIN .00	AC-FT	26					

GREEN RIVER BASIN

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 current year.

WATER TEMPERATURE: April 1974 to current year.

SUSPENDED-SEDIMENT DISCHARGE: April 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1974. Pumping sediment sampler since April 1974.

REMARKS.--Flow occurred only on days shown.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily, 28,000 mg/L, estimated Sept. 3; no flow many days during year.

SEDIMENT LOADS: Maximum daily, 900 tons (820 t), estimated Sept. 3; no flow many days during year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

		INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	
MAR 17... 17...	0900 1030	.04 .17	2140 2080	8.2 8.1	.0 4.0	10.2 9.8	220 200	0 0	52 49	21 19	520 490	15 15	
		DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)
DATE													
MAR 17... 17...	3.1 2.8	1360 1280	0 0	1120 1050	98 85	37 34	9.0 11	14 13	1430 1340	.58 .55	.02 .04	10 30	
		DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
DATE													
MAR 17... 17...	200 200	600 530	0 1	2 3	60 60	0 6	20 20	10 30	.0 .0	3 3	830 730	0 10	

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

[illegible]

09306058 WILLOW CREEK NEAR RIO BLANCO, CO

LOCATION.--Lat 39°50'14"N, long 108°14'37"W, in NW¼NE¼ sec.35, T.2 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on right bank 1,500 ft (460 m) upstream from mouth and 17.4 mi (28.0 km) west of Rio Blanco.

DRAINAGE AREA.--48.7 mi² (126.1 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder. Concrete control since Aug. 9, 1974. Altitude of gage is 6,273 ft (1,912 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Diversions above station for irrigation of about 315 acres (1.27 km²).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23 ft³/s (0.65 m³/s) Sept. 3, 1977, gage height, 4.46 ft (1.359 m); minimum daily, 0.01 ft³/s (0.001 m³/s) June 6, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 23 ft³/s (0.65 m³/s) Sept. 3, gage height, 4.46 ft (1.359 m); minimum daily, 0.02 ft³/s (0.001 m³/s) Apr. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.2	3.4	2.3	1.3	1.1	.26	.88	.24	1.2	1.1	.97
2	2.4	2.2	3.5	2.2	1.3	2.7	.30	.84	.30	1.0	1.1	.97
3	2.6	2.2	3.0	2.2	1.3	2.6	.40	.75	.44	1.1	1.1	2.6
4	2.6	1.9	3.0	2.1	1.4	2.3	.60	.70	.47	.92	1.1	1.2
5	2.6	1.8	3.0	2.1	1.4	2.4	.79	.75	.40	.75	1.2	1.1
6	2.7	1.8	3.0	1.8	1.4	2.4	1.2	.66	.40	.75	1.1	1.2
7	2.7	1.8	3.0	1.5	1.4	2.4	1.6	.66	.40	.75	.75	1.2
8	2.7	1.7	3.0	1.5	1.4	2.4	1.3	.84	.47	.75	.94	1.2
9	2.7	1.7	3.0	1.5	1.4	2.4	2.9	1.3	.44	.75	.75	1.2
10	2.7	1.8	3.1	1.0	1.4	3.2	1.6	.97	.44	.75	.92	1.2
11	2.6	1.6	3.1	1.2	1.4	3.5	.92	.63	.47	.92	.97	1.1
12	2.7	1.7	3.1	1.5	1.4	2.9	.92	.75	.47	1.1	.88	.47
13	2.7	1.7	3.0	2.0	1.4	3.1	1.0	.75	.47	.97	.79	.37
14	2.7	1.8	2.9	2.0	1.4	2.9	.53	.47	.44	1.2	.97	.34
15	2.9	1.7	2.9	1.9	1.4	2.9	.13	.20	.44	1.2	.97	.30
16	2.7	1.6	2.8	1.8	1.4	2.8	.03	.22	.63	1.2	1.0	.28
17	2.7	1.5	2.9	1.7	1.4	2.8	.27	.18	1.1	1.3	1.2	.28
18	2.7	1.5	2.8	1.7	1.4	.28	.76	.18	1.4	1.4	1.2	.28
19	2.7	1.7	2.6	1.6	1.4	.20	1.1	.24	1.1	1.4	1.1	.30
20	2.9	1.9	2.5	1.6	1.4	.13	.56	.28	.97	.92	1.1	.34
21	2.6	2.0	2.5	1.6	.70	.05	.44	.37	1.2	1.1	1.2	.39
22	2.5	2.0	2.4	1.6	.44	.05	.07	.26	.97	1.3	1.1	1.4
23	2.5	2.0	2.2	1.6	.45	.09	.02	.24	.97	1.3	1.0	1.8
24	2.5	1.5	2.1	1.7	.50	.09	.14	.30	.97	1.3	.97	1.2
25	2.4	1.6	2.2	1.7	.47	.16	.32	.44	1.1	1.1	1.1	1.1
26	2.0	1.7	2.3	1.6	.50	.12	.40	.30	1.3	1.1	.92	1.1
27	2.2	2.0	2.2	1.5	.56	.22	.50	.28	1.5	1.2	1.3	1.1
28	2.6	2.6	2.1	1.4	.60	.44	.63	.26	1.6	1.3	.97	1.1
29	2.5	2.8	2.3	1.4	---	.66	.75	.24	1.6	1.3	.92	1.1
30	2.4	2.7	2.2	1.3	---	.88	.75	.22	1.4	1.3	.92	1.2
31	2.3	---	2.4	1.3	---	.32	---	.22	---	1.3	.97	---
TOTAL	79.8	56.7	84.5	51.9	31.92	48.49	21.19	15.38	24.10	33.93	31.51	28.39
MEAN	2.57	1.89	2.73	1.67	1.14	1.56	.71	.50	.80	1.09	1.02	.95
MAX	2.9	2.8	3.5	2.3	1.4	3.5	2.9	1.3	1.6	1.4	1.3	2.6
MIN	2.0	1.5	2.1	1.0	.44	.05	.02	.18	.24	.75	.75	.28
AC-FT	158	112	168	103	63	96	42	31	48	67	63	56

CAL YR 1976 TOTAL 804.73 MEAN 2.20 MAX 5.5 MIN .01 AC-FT 1600
WTR YR 1977 TOTAL 507.81 MEAN 1.39 MAX 3.5 MIN .02 AC-FT 1010

GREEN RIVER BASIN

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1974 to current year.

pH: March 1976 to current year.

DISSOLVED OXYGEN: March 1976 to current year.

WATER TEMPERATURE: November 1974 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since November 1974. Pumping sediment sampler since October 1974.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,920 micromhos July 14, 1976; minimum, 528 micromhos Mar. 18, 1976.

WATER TEMPERATURES: Maximum, 30.0°C July 17, 1976; minimum, 0.0°C many days during winter months each year.

DISSOLVED OXYGEN: Maximum, 11.9 mg/L Mar. 12, 1976; minimum, 4.2 mg/L Aug. 6, 1976.

pH: Maximum, 8.7 units Aug. 10, 1977; minimum, 7.6 units Dec. 6, 1976, Jan. 2, 1977.

SEDIMENT CONCENTRATIONS: Maximum daily, 3,820 mg/L Sept. 3, 1977; minimum daily, 4 mg/L Oct. 6, 1974.

SEDIMENT LOADS: Maximum daily, 60 tons (54 t) Sept. 3, 1977; minimum daily, 0.00 ton (0.00 t) several days in March 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,560 micromhos Apr. 7; minimum, 1,000 micromhos Apr. 13.

WATER TEMPERATURES: Maximum, 26.0°C June 5, July 18; minimum, 0.0°C many days during October to April.

DISSOLVED OXYGEN: Maximum, 11.6 mg/L Mar. 31; minimum, 5.3 mg/L Apr. 22.

pH: Maximum, 8.7 units Aug. 10; minimum, 7.6 units Dec. 6, Jan. 2.

SEDIMENT CONCENTRATIONS: Maximum daily, 3,820 mg/L Sept. 3, minimum daily, 6 mg/L, estimated several days in March.

SEDIMENT LOADS: Maximum daily, 60 tons (54 t) Sept. 3; minimum daily, 0.00 ton (0.00 t) several days in March.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	pH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLAT-INJM- COBALT UNITS)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MA- NE- SIUM (MG)	(MG/L)
OCT												
06...	0940	2.7	1260	8.1	6.0	4	9.8	530	170	91	74	
NOV												
16...	1200	2.1	1100	8.4	4.5	3	9.5	510	120	92	68	
MAR												
15...	1145	2.7	1200	8.3	3.0	--	9.5	550	140	99	73	
MAY												
19...	1430	.17	1280	8.4	16.0	--	8.5	540	150	87	79	
JUL												
12...	1215	1.1	1270	8.3	19.5	--	8.2	550	150	90	80	
AUG												
17...	1400	1.3	1220	8.4	15.5	--	7.8	500	110	82	71	

DATE	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PHOS- PHORUS SIUM (P) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LIVITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUTENTS) (MG/L)
OCT											
06...	110	2.1	1.5	438	0	359	350	12	.3	17	876
NOV											
16...	110	2.1	1.5	478	0	392	320	9.9	.4	15	954
MAR											
15...	110	2.0	1.6	501	0	411	320	13	.5	18	987
MAY											
19...	130	2.4	2.1	480	0	390	360	12	.5	14	925
JUL											
12...	130	2.4	1.9	490	0	400	370	10	.4	15	939
AUG											
17...	120	2.3	1.6	480	0	390	310	9.5	.4	17	952

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITROGEN (N) (MG/L)	DIS-SOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJEL-DAML NITROGEN (N) (MG/L)	DIS-SOLVED KJEL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT 06...	6.48	--	--	.84	.02	.37	--	.39	.02	.02
NOV 16...	4.91	--	--	.38	.07	1.0	--	1.1	.04	.01
MAR 15...	6.51	--	--	.46	--	--	--	--	--	.02
MAY 19...	.42	.20	.00	.20	.04	--	.38	--	--	.02
JUL 12...	2.99	--	--	--	--	--	--	--	--	--
AUG 17...	3.04	.06	.00	.06	.06	--	.24	--	--	.01

DATE	TIME	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)
OCT 06...	0940	1	--	100	--	--	20	--	--
NOV 16...	1200	13	--	100	--	--	20	--	--
MAR 15...	1145	1	100	100	0	0	20	1	0
MAY 19...	1430	0	0	110	0	1	50	0	10
JUL 12...	1215	--	--	--	--	--	20	--	--
AUG 17...	1400	3	400	120	2	0	120	3	20

DATE	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED MERCURY (MG) (UG/L)	DIS-SOLVED MOLYBDENUM (MO) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED STRONTIUM (SR) (UG/L)	DIS-SOLVED VANADIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)
OCT 06...	10	--	--	--	--	--	--	3.2	.2
NOV 16...	30	--	--	--	--	--	--	7.9	.5
MAR 15...	90	.0	--	1	2700	--	10	--	--
MAY 19...	30	.0	3	1	3100	.0	20	--	--
JUL 12...	40	--	--	--	--	--	--	--	--
AUG 17...	40	.0	2	1	2800	4.6	2	--	--

09306058 WILLOW CREEK NEAR RIO BLANCO, CU--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1370	1240	1170			---	1190			1270	---	---
2	1360	1260	1180			---	1160			1280	---	---
3	1370	1290	1230			---	1220			1280	---	---
4	1350	1280	1180			---	1300			1330	1390	---
5	1310	1280	1220			---	1270			1270	1350	---
6	1330	1280	1140			---	1300			1260	1380	---
7	1320	1280	1140			---	1320			1250	1400	---
8	1310	---	1170			---	1290			1240	1400	---
9	1310	---	1120			---	1170			1240	1390	---
10	1290	---	1190			---	1200			1250	1370	---
11	1250	---	1190			---	1190			1250	1350	---
12	1220	---	1170			---	1180			1180	1340	---
13	1180	---	1140			---	1190			---	1340	---
14	1190	---	1190			---	1180			---	1320	---
15	1180	---	1340			---	1220			---	1300	---
16	1180	1240	---			---	1250			---	1280	---
17	1190	1280	---			---	1190			---	1260	---
18	1130	---	---			---	1180			---	1230	---
19	1100	---	---			---	1220			---	1260	---
20	1120	---	---			---	1250			---	---	1310
21	1140	---	---			---	1180			---	---	1330
22	1170	---	---			---	1190			---	---	1360
23	1180	---	---			---	1180			---	---	---
24	1190	---	---			---	1170			---	---	---
25	1170	---	---			---	1140			---	---	---
26	1160	---	---			---	1180			---	---	---
27	1170	---	---			---	1190			---	---	---
28	1170	---	---			---	---			---	---	---
29	1180	---	---			---	---			---	---	---
30	1210	1120	---			1080	---			---	---	---
31	1230	---	---			1220	---			---	---	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	14.0	4.5	9.0	.5	5.0	.0					---	---
2	11.5	7.5	9.5	1.0	5.0	.0					---	---
3	13.0	7.0	10.0	3.0	4.0	.0					---	---
4	13.5	4.5	9.5	1.0	4.0	.0					---	---
5	11.5	3.0	9.5	1.5	6.0	.0					---	---
6	10.0	5.0	8.5	1.0	4.0	.0					---	---
7	11.0	2.0	9.0	1.5	4.0	.0					---	---
8	12.0	1.5	---	---	5.0	.0					---	---
9	13.0	2.5	---	---	5.0	.0					---	---
10	13.0	3.0	---	---	4.0	.0					---	---
11	11.5	4.5	---	---	5.5	.0					---	---
12	12.5	3.5	---	---	5.0	.0					---	---
13	12.0	3.0	---	---	5.0	.0					---	---
14	12.0	3.0	---	---	2.0	.0					---	---
15	11.5	2.5	---	---	2.0	.0					---	---
16	11.5	3.0	6.0	1.0	---	---					---	---
17	11.0	3.5	7.0	.5	---	---					---	---
18	7.5	1.5	---	---	---	---					---	---
19	7.5	.0	---	---	---	---					---	---
20	8.0	.0	---	---	---	---					---	---
21	8.5	.0	---	---	---	---					---	---
22	9.5	.5	---	---	---	---					---	---
23	9.0	1.0	---	---	---	---					---	---
24	10.0	2.0	---	---	---	---					---	---
25	7.5	.5	---	---	---	---					---	---
26	5.5	1.0	---	---	---	---					---	---
27	7.0	.0	---	---	---	---					---	---
28	6.5	.0	---	---	---	---					---	---
29	7.5	.0	---	---	---	---					---	---
30	8.5	.5	5.5	.5	---	---					11.0	.0
31	9.0	.5	---	---	---	---					9.0	.0

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.0	.0	14.0	5.0	22.5	8.0	20.5	9.0	21.0	9.0	---	---
2	5.5	.0	20.5	3.5	25.5	6.0	22.0	9.5	21.5	9.0	---	---
3	9.0	.5	12.0	4.0	22.5	7.0	20.5	8.0	---	---	---	---
4	12.0	.5	18.0	4.5	24.0	6.5	18.0	9.0	21.0	12.0	---	---
5	10.5	3.5	19.5	3.5	26.0	6.5	22.0	8.5	21.0	11.5	---	---
6	13.5	3.5	19.5	5.5	22.0	7.0	19.5	7.5	23.5	10.5	---	---
7	11.5	4.0	20.5	3.0	20.0	7.0	21.5	6.5	25.0	10.0	---	---
8	10.0	3.5	20.0	3.5	19.0	8.5	20.5	4.5	21.5	10.5	---	---
9	11.0	5.5	21.5	4.0	21.0	9.0	23.5	8.5	24.5	7.5	---	---
10	14.5	4.0	14.5	3.5	21.5	7.0	23.5	6.0	23.0	7.5	---	---
11	12.5	4.5	18.5	1.5	23.0	5.5	24.0	6.0	21.5	8.5	---	---
12	9.5	5.0	16.5	2.5	23.0	5.0	23.5	7.5	22.5	8.0	---	---
13	11.5	1.5	17.0	5.0	23.5	5.0	21.5	9.5	---	---	---	---
14	13.0	3.0	---	---	23.0	5.5	20.5	8.5	17.5	8.5	---	---
15	---	---	20.0	6.0	23.0	5.5	18.5	7.5	21.5	10.5	---	---
16	13.5	6.0	20.0	4.0	23.0	5.0	18.5	9.0	21.0	11.5	---	---
17	15.0	5.0	20.5	5.5	20.5	8.0	20.0	12.0	---	---	---	---
18	16.5	7.0	20.5	3.0	20.0	8.0	26.0	9.5	20.0	11.5	---	---
19	---	---	17.0	2.5	20.0	7.0	---	---	20.0	10.0	---	---
20	13.0	3.5	18.0	3.0	19.5	6.5	20.0	10.5	---	---	18.5	8.0
21	15.0	4.0	19.5	2.0	17.5	5.5	18.5	11.5	---	---	17.0	6.5
22	16.0	5.5	21.5	2.5	21.0	6.0	20.0	12.0	---	---	18.5	4.5
23	16.5	7.5	17.0	4.0	25.0	6.0	25.5	12.5	---	---	---	---
24	19.5	6.0	17.0	3.0	25.0	7.5	23.0	9.5	---	---	---	---
25	20.0	3.5	18.0	6.0	---	---	---	---	---	---	---	---
26	15.5	3.5	---	---	---	---	24.5	9.0	---	---	---	---
27	14.0	4.0	---	---	---	---	20.5	8.0	---	---	---	---
28	14.0	5.0	---	---	---	---	25.0	9.0	---	---	---	---
29	20.5	5.0	---	---	---	---	23.5	7.0	---	---	---	---
30	20.5	4.5	---	---	---	---	24.0	7.0	---	---	---	---
31	---	---	---	---	---	---	24.0	7.0	---	---	---	---

PH (UNITS), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	8.2	8.3	8.2	---	---	8.0	8.4	8.2	8.2	8.1	---
2	8.2	8.2	8.2	7.9	---	---	8.1	8.3	8.3	8.3	8.2	---
3	8.2	8.2	8.3	---	---	---	8.1	8.3	8.2	8.3	---	---
4	8.2	8.2	8.2	---	---	---	8.1	8.3	8.2	8.3	8.3	---
5	8.2	8.2	8.3	---	---	---	8.2	8.3	8.2	8.2	8.3	---
6	8.2	8.2	8.0	---	---	---	8.2	8.3	8.2	8.3	8.3	---
7	8.3	8.2	8.3	---	---	---	8.2	8.3	8.2	8.2	8.3	---
8	8.3	---	8.2	---	---	---	8.1	8.3	8.2	8.2	8.3	---
9	8.2	---	8.2	---	---	---	8.2	8.3	8.1	8.3	8.3	---
10	8.2	---	8.2	---	---	---	8.2	8.4	8.1	8.3	8.4	---
11	8.2	---	8.2	---	---	---	8.3	8.3	8.1	8.3	8.3	---
12	8.2	---	8.2	---	---	---	8.3	8.3	8.1	8.3	8.2	---
13	8.2	---	8.1	---	---	---	8.3	8.3	8.1	8.3	8.3	---
14	8.2	---	8.2	---	---	---	8.2	8.3	8.1	8.2	8.3	---
15	8.2	---	8.2	---	---	---	8.2	8.2	8.1	8.2	8.3	---
16	8.2	8.2	8.2	---	---	---	8.1	8.2	8.1	8.2	8.4	---
17	8.2	8.3	8.2	---	---	---	8.1	8.2	8.2	8.2	8.0	---
18	8.2	8.2	8.2	---	---	---	8.3	8.3	8.1	8.3	8.1	---
19	8.3	---	8.2	---	---	---	8.4	8.4	8.0	8.2	8.0	---
20	8.4	---	8.1	---	---	---	8.3	8.4	8.1	8.2	---	8.1
21	8.3	---	8.3	---	---	---	8.2	8.4	8.1	8.2	---	8.1
22	8.3	---	8.1	---	---	---	8.0	8.4	8.1	8.2	---	8.1
23	8.3	---	8.0	---	---	---	7.9	8.4	8.0	8.2	---	---
24	8.2	---	8.1	---	---	---	8.1	8.4	8.0	8.4	---	---
25	8.2	---	8.2	---	---	---	8.2	8.4	8.2	8.2	---	---
26	8.3	---	8.3	---	---	---	8.2	---	---	8.2	---	---
27	8.2	---	8.1	---	---	---	8.2	---	---	8.2	---	---
28	8.1	---	8.1	---	---	---	8.3	---	---	8.1	---	---
29	8.1	---	8.2	---	---	---	8.4	---	---	8.1	---	---
30	8.3	8.2	8.0	---	---	8.2	8.4	---	---	8.0	---	---
31	8.2	---	8.1	---	---	8.2	---	---	---	8.0	---	---

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	10.5	8.9	8.5	5.6	10.4	7.7					---	---
2	10.1	9.0	8.0	5.5	10.3	8.0					---	---
3	10.1	8.9	8.3	5.6	10.1	9.3					---	---
4	10.4	9.0	8.9	6.2	10.1	9.3					---	---
5	10.6	8.9	8.0	6.1	9.9	9.4					---	---
6	9.8	9.2	8.6	5.4	10.0	9.3					---	---
7	9.3	7.6	8.2	6.6	10.0	9.4					---	---
8	8.9	6.5	---	---	10.0	9.1					---	---
9	8.2	5.7	---	---	9.9	9.0					---	---
10	8.1	5.5	---	---	10.0	9.4					---	---
11	7.2	5.8	---	---	10.2	9.3					---	---
12	7.6	5.8	---	---	10.2	8.1					---	---
13	7.6	5.6	---	---	10.2	9.5					---	---
14	7.7	5.6	---	---	10.2	9.5					---	---
15	7.6	5.6	---	---	---	---					---	---
16	7.6	5.5	9.8	9.0	---	---					---	---
17	7.5	5.7	10.2	9.9	---	---					---	---
18	7.9	6.6	---	---	---	---					---	---
19	9.5	7.2	---	---	---	---					---	---
20	10.0	8.6	---	---	---	---					---	---
21	10.0	8.5	---	---	---	---					---	---
22	9.8	8.5	---	---	---	---					---	---
23	9.8	8.4	---	---	---	---					---	---
24	9.7	8.3	---	---	---	---					---	---
25	9.8	8.4	---	---	---	---					---	---
26	9.6	8.5	---	---	---	---					---	---
27	9.9	8.2	---	---	---	---					---	---
28	9.9	7.3	---	---	---	---					---	---
29	9.8	6.8	---	---	---	---					---	---
30	8.7	6.9	10.2	9.9	---	---					11.5	9.2
31	8.6	5.7	---	---	---	---					11.6	9.9

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.1	10.2	9.9	8.6	8.7	7.6	---	---	8.7	7.1	---	---
2	10.8	10.2	10.1	8.2	9.5	6.8	---	---	8.6	7.5	---	---
3	11.0	9.9	9.9	8.4	9.2	7.2	---	---	---	---	---	---
4	10.9	9.3	9.6	8.2	8.9	6.6	---	---	8.4	7.5	---	---
5	10.4	9.6	9.6	7.9	8.8	5.9	---	---	9.0	7.3	---	---
6	10.3	9.0	9.1	7.7	8.2	6.1	---	---	9.3	7.2	---	---
7	10.1	8.9	9.1	7.3	8.6	7.0	---	---	9.6	7.1	---	---
8	9.9	7.5	9.0	6.7	8.4	6.2	---	---	9.6	7.5	---	---
9	9.7	7.7	9.0	7.1	8.0	6.5	9.1	7.7	10.0	7.5	---	---
10	9.3	6.0	8.6	7.6	8.0	6.4	9.1	7.4	10.0	7.7	---	---
11	9.6	7.7	9.3	7.5	8.1	6.2	9.1	7.2	9.8	8.0	---	---
12	9.6	8.9	9.2	7.6	8.3	6.3	8.2	7.2	9.7	7.7	---	---
13	10.6	7.2	8.8	7.5	8.2	6.0	9.1	7.2	9.4	8.0	---	---
14	9.8	7.6	9.3	8.0	8.1	6.4	8.8	7.0	9.0	7.6	---	---
15	9.5	5.8	9.3	7.8	8.0	6.3	8.0	6.1	8.6	7.3	---	---
16	9.7	7.6	9.3	7.9	8.2	6.6	8.1	7.0	8.4	7.3	---	---
17	9.6	8.9	9.4	7.4	8.3	7.0	8.0	6.8	8.3	7.8	---	---
18	10.1	8.3	9.5	7.5	8.1	6.4	8.2	6.9	8.7	7.2	---	---
19	10.7	9.0	9.4	8.4	8.2	6.6	8.0	6.7	9.0	8.1	---	---
20	9.1	7.6	10.2	8.6	8.2	6.4	8.1	6.6	---	---	9.3	7.9
21	9.2	5.5	10.0	8.2	8.1	6.5	8.3	6.8	---	---	9.7	8.3
22	8.3	5.3	10.0	8.1	8.2	6.4	8.2	6.7	---	---	9.6	9.2
23	8.5	5.6	9.8	7.9	8.3	6.6	8.4	6.8	---	---	---	---
24	8.9	7.0	9.7	8.1	---	---	8.3	6.6	---	---	---	---
25	9.8	7.7	9.2	8.0	---	---	8.4	7.1	---	---	---	---
26	9.9	8.0	---	---	---	---	8.3	6.7	---	---	---	---
27	9.7	7.8	---	---	---	---	8.6	7.0	---	---	---	---
28	9.6	8.4	---	---	---	---	8.1	6.2	---	---	---	---
29	10.0	7.9	---	---	---	---	8.4	7.2	---	---	---	---
30	10.0	8.1	---	---	---	---	9.1	6.7	---	---	---	---
31	---	---	---	---	---	---	9.0	6.8	---	---	---	---

GREEN RIVER BASIN

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)
1	420	2.6	470	2.8	315	2.9	---	2.5	---	1.1	620	1.8
2	520	3.4	440	2.6	340	3.2	---	2.4	---	1.1	735	5.4
3	1470	10	500	3.0	340	2.8	---	2.4	---	1.1	375	2.6
4	580	4.1	440	2.3	500	4.1	---	2.2	---	1.2	350	2.2
5	370	2.6	470	2.3	295	2.4	---	2.2	---	1.2	500	3.2
6	310	2.3	370	1.8	---	3.7	---	1.8	---	1.2	410	2.7
7	390	2.8	340	1.7	---	3.7	---	1.4	---	1.2	355	2.3
8	760	5.5	370	1.7	515	4.2	---	1.4	---	1.2	348	2.3
9	460	3.4	360	1.7	510	4.1	---	1.4	97	.37	273	1.8
10	260	1.9	340	1.7	505	4.2	---	.76	---	1.2	205	1.8
11	180	1.3	360	1.6	475	4.0	---	1.0	---	1.2	610	5.8
12	160	1.2	300	1.4	460	3.9	---	1.4	---	1.2	660	5.2
13	150	1.1	240	1.1	515	4.2	---	2.1	---	1.2	395	3.3
14	180	1.3	260	1.3	---	3.6	---	2.1	---	1.2	350	2.7
15	210	1.6	320	1.5	---	3.6	---	1.9	---	1.2	---	3.6
16	200	1.5	200	.86	---	3.4	---	1.8	---	1.2	---	3.4
17	200	1.5	215	.87	---	3.6	---	1.7	---	1.2	---	3.4
18	230	1.7	225	.91	---	3.4	---	1.7	---	1.2	---	.00
19	300	2.2	---	1.6	---	3.0	---	1.5	---	1.2	---	.00
20	740	5.8	---	1.9	---	2.9	---	1.5	---	1.2	---	.00
21	600	4.2	---	2.1	---	2.9	---	1.5	---	.45	---	.00
22	350	2.4	---	2.1	---	2.7	---	1.5	---	.23	---	.00
23	340	2.3	235	1.3	---	2.4	---	1.5	---	.24	64	.02
24	300	2.0	215	.87	---	2.2	475	2.2	300	.41	145	.04
25	300	1.9	245	1.1	---	2.4	---	1.7	255	.32	130	.06
26	250	1.4	265	1.2	---	2.5	---	1.6	270	.36	80	.03
27	330	2.0	---	2.1	---	2.4	---	1.4	320	.48	305	.18
28	280	2.0	---	3.0	---	2.2	---	1.2	330	.53	310	.37
29	300	2.0	---	3.4	---	2.5	---	1.2	---	---	180	.32
30	500	3.2	440	3.2	---	2.4	---	1.1	---	---	30	.07
31	500	3.1	---	---	---	2.7	---	1.1	---	---	75	.06
TOTAL	---	84.3	---	55.01	---	98.2	---	51.16	---	25.89	---	54.65

GREEN RIVER BASIN

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°51'02", long 108°15'30", in SE¼NE¼ sec.27, T.2 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 20 ft (6 m) downstream from private bridge, 0.4 mi (0.6 km) upstream from Hunter Creek, and 18.7 mi (30.1 km) west of Rio Blanco.

DRAINAGE AREA.--309 mi² (800 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,214 ft (1,894 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Diversions above station for irrigation above and below station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 492 ft³/s (13.9 m³/s) Sept. 3, 1977, gage height, 4.19 ft (1.277 m); minimum daily, 2.1 ft³/s (0.059 m³/s) Oct. 2, 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 3, 1977, exceeded all other floods at this location since at least 1939, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 492 ft³/s (13.9 m³/s) Sept. 3, gage height, 4.19 ft (1.277 m); minimum daily, 2.6 ft³/s (0.074 m³/s) Aug. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	10	21	16	12	12	7.6	4.3	5.2	4.6	2.6	7.3
2	12	10	20	16	12	12	7.2	4.3	4.0	5.4	3.8	7.3
3	14	10	19	16	12	12	6.4	4.3	3.2	4.8	4.8	115
4	13	10	21	16	11	13	6.8	4.3	3.5	5.2	6.1	11
5	11	10	20	13	14	15	6.4	4.0	4.0	5.4	7.6	8.4
6	10	9.2	18	11	13	13	7.2	4.6	4.8	4.8	8.3	10
7	9.6	9.0	19	10	12	11	6.8	4.3	6.8	4.6	6.8	7.9
8	8.8	9.0	19	11	13	13	4.0	4.3	7.6	4.3	6.8	7.1
9	6.8	8.6	19	12	13	12	4.3	5.4	7.6	4.3	6.8	7.2
10	7.2	7.6	19	11	16	13	4.3	6.1	8.3	4.6	6.8	7.2
11	7.6	8.0	17	11	13	13	3.8	5.8	8.3	4.6	8.3	9.2
12	8.3	8.0	17	10	13	13	2.9	5.7	7.6	4.8	8.8	9.6
13	9.1	8.2	17	11	13	13	2.9	6.1	6.8	4.8	8.8	7.9
14	8.2	8.2	16	12	13	13	3.2	9.6	6.4	4.8	10	7.2
15	8.0	8.2	16	12	13	13	3.5	9.6	6.1	5.4	11	7.6
16	9.0	8.2	16	12	13	13	4.3	9.6	6.1	5.4	10	6.8
17	10	8.8	15	13	13	13	4.6	8.3	6.4	5.2	9.6	6.1
18	10	10	15	16	13	12	4.3	7.2	6.1	5.8	13	6.4
19	10	11	14	13	15	12	4.8	6.8	6.4	34	10	6.8
20	10	10	14	15	15	12	5.4	7.2	5.8	32	11	8.3
21	9.0	11	14	13	13	10	5.2	7.2	5.4	7.6	10	7.9
22	8.0	12	14	13	12	10	4.0	7.2	5.4	6.8	10	9.2
23	9.0	12	15	13	12	12	4.0	6.4	5.4	8.8	10	8.8
24	9.0	12	17	13	11	13	3.8	6.4	5.8	13	10	6.1
25	9.5	12	15	11	11	22	3.5	6.4	5.8	7.9	9.6	5.4
26	8.3	13	14	11	15	15	3.5	6.8	5.4	5.0	8.8	4.8
27	7.9	11	14	19	14	12	3.5	6.8	5.2	4.0	12	4.8
28	7.9	12	14	22	12	12	4.0	6.4	5.2	3.5	7.9	4.0
29	8.8	13	13	23	---	12	4.0	5.4	5.4	3.0	7.6	3.8
30	9.6	17	13	19	---	14	4.0	4.8	5.2	2.9	6.8	4.0
31	10	---	14	19	---	8.3	---	4.8	---	2.7	7.6	---
TOTAL	289.6	307.0	509	433	362	393.3	140.2	190.4	175.2	220.0	261.2	323.1
MEAN	9.34	10.2	16.4	14.0	12.9	12.7	4.67	6.14	5.84	7.10	8.43	10.8
MAX	14	17	21	23	16	22	7.6	9.6	8.3	34	13	115
MIN	6.8	7.6	13	10	11	8.3	2.9	4.0	3.2	2.7	2.6	3.8
AC-FT	574	609	1010	859	718	780	278	378	348	436	518	641
CAL YR 1976	TOTAL	5379.7	MEAN	14.7	MAX	60	MIN	3.6	AC-FT	10670		
WTR YR 1977	TOTAL	3604.0	MEAN	9.87	MAX	115	MIN	2.6	AC-FT	7150		

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CU--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to current year.

WATER TEMPERATURE: October 1974 to current year.

SUSPENDED-SEDIMENT DISCHARGE: April 1974 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler since April 1974. Water-quality monitor since October 1974.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,980 micromhos Jan. 15, 1976; minimum, 684 micromhos Feb. 9, 1976.

WATER TEMPERATURES: Maximum, 26.5°C June 26, 1977; minimum, freezing point on many days during November 1975 to March 1976.

DISSOLVED OXYGEN: Maximum, 16.5 mg/L Mar. 21, 22, 1976; minimum, 4.1 mg/L July 17, 1976.

pH: Maximum, 8.7 units Sept. 3, 1977; minimum, 7.5 units Oct. 8, 9, 1975.

SEDIMENT CONCENTRATIONS: Maximum daily, 87,000 mg/L, estimated Sept. 3, 1977; minimum daily, 4 mg/L Sept. 24, 1975.

SEDIMENT LOADS: Maximum daily, 27,000 tons, estimated (24,000 t) Sept. 3, 1977; minimum daily, 0.17 ton (0.15 t) Oct. 9, 1974.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,680 micromhos June 30; minimum, 793 micromhos Aug. 6.

WATER TEMPERATURES: Maximum, 26.5°C June 26; minimum, not determined.

DISSOLVED OXYGEN: Maximum, 14.7 mg/L Apr. 27; minimum, 4.9 mg/L July 7.

pH: Maximum, 8.7 units Sept. 3; minimum, 7.6 units July 18.

SEDIMENT CONCENTRATIONS: Maximum daily, 87,000 mg/L, estimated Sept. 3; minimum daily, 10 mg/L, estimated Oct. 1-3.

SEDIMENT LOADS: Maximum daily, 27,000 tons, estimated (24,000 t) Sept. 3; minimum daily, 0.19 ton, estimated (0.17 t) Apr. 12, 13.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	pH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT 06...	1215	10	1300	8.1	9.5	4	11.1	--	--	--
NOV 16...	1450	11	1390	8.3	7.0	3	11.7	--	--	895
DEC 13...	1400	18	1300	8.1	2.5	6	10.5	19	--	8380
JAN 25...	1000	20	1360	8.2	.0	6	11.2	--	--	--
FEB 11...	1140	14	1280	8.3	2.0	8	10.4	--	--	--
MAR 15...	1330	13	1320	8.2	6.5	12	9.2	56	--	--
APR 14...	1330	3.2	1520	8.0	16.0	7	7.5	--	--	>1600
MAY 19...	1245	6.8	1300	8.1	13.0	12	8.3	--	--	850
JUN 20...	1400	7.3	1310	8.4	19.5	9	11.7	11	1.3	847
JUL 12...	0945	5.0	1370	8.2	12.0	5	9.7	--	--	--
AUG 17...	1100	9.6	1380	8.3	14.5	7	9.9	--	--	340
SEP 06...	1300	7.2	1400	8.1	17.0	8	7.5	15	--	--

B BASED ON NON-IDEAL COLONY COUNT.

GREEN RIVER BASIN

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CU--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	FECAL COLI- FORM (COL./ 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
OCT 06...	--	--	480	75	79	68	150	3.0	2.6	490
NOV 16...	816	--	520	82	80	78	160	3.1	2.9	535
DEC 13...	85	830	500	31	84	70	140	2.7	2.7	573
JAN 25...	--	--	510	61	87	70	140	2.7	2.3	542
FEB 11...	--	--	490	36	84	67	140	2.8	2.2	548
MAR 15...	--	--	490	45	82	69	140	2.8	2.6	545
APR 14...	8480	48	560	0	85	85	170	3.1	3.3	690
MAY 19...	44	--	490	0	79	70	160	3.2	2.8	620
JUN 20...	814	--	470	30	71	71	170	3.4	2.7	540
JUL 12...	81200	--	530	57	80	81	170	3.2	2.8	580
AUG 17...	31	496	510	88	84	74	160	3.1	3.2	520
SEP 06...	--	--	540	30	91	75	160	3.0	3.7	620

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOL- VED SUL- FIDE (S) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	BROMIDE (BR) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)
OCT 06...	0	402	--	310	15	.6	--	16	885	23.9
NOV 16...	0	439	--	330	14	.7	--	15	945	29.6
DEC 13...	0	470	.2	290	14	.6	.1	18	908	46.1
JAN 25...	0	445	--	300	16	.7	--	17	903	50.0
FEB 11...	0	449	--	280	13	.7	--	17	877	33.2
MAR 15...	0	447	.3	320	13	.8	.1	17	919	33.7
APR 14...	0	570	--	350	16	.8	--	17	1070	9.24
MAY 19...	0	510	--	290	17	.9	--	15	942	17.3
JUN 20...	0	440	.5	330	13	.8	.1	15	943	18.6
JUL 12...	0	480	--	350	12	.7	--	11	994	13.6
AUG 17...	0	430	--	350	16	.7	--	17	963	25.0
SEP 06...	0	510	--	350	18	.7	.1	19	1030	20.3

B BASED ON NON-IDEAL COLONY COUNT.

09306051 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CU--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDED ORGANIC CARBON (C) (MG/L)
OCT 06...	--	--	.44	.00	.09	.09	.01	.02	6.2	.3
NOV 16...	--	--	.15	.01	.36	.37	.02	.01	8.7	.4
DEC 13...	--	--	.64	.11	.85	.96	.14	.02	6.0	--
JAN 25...	--	--	.60	.04	.26	.30	.08	.07	3.8	.0
FEB 11...	.59	.00	.59	.03	.21	.24	.31	.01	3.6	3.1
MAR 15...	--	--	.71	.03	2.8	2.8	.33	.04	4.4	.8
APR 14...	--	--	.22	.05	--	--	.05	.04	6.9	.9
MAY 19...	--	--	.27	.09	.47	.56	.04	.03	5.3	1.1
JUN 20...	--	--	.03	.01	.16	.17	.01	.03	10	1.0
JUL 12...	--	--	.01	.01	.41	.42	.02	.01	8.1	.5
AUG 17...	--	--	.17	.04	.38	.42	.06	.01	5.3	.7
SEP 06...	--	--	.33	.02	.67	.69	.09	.07	--	--

DATE	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)
OCT 06...	--	2	--	180	--	--	--	60	--	--
NOV 16...	--	3	--	190	--	--	--	20	--	--
DEC 13...	0	3	0	180	0	0	2	10	1	40
JAN 25...	--	2	--	160	--	--	--	70	--	--
FEB 11...	0	0	--	150	--	--	--	20	--	--
MAR 15...	0	2	100	150	0	10	0	20	0	10
APR 14...	--	2	--	190	--	--	--	110	--	--
MAY 19...	--	2	--	180	--	--	--	120	--	--
JUN 20...	10	3	0	200	1	20	1	20	3	8
JUL 12...	--	3	--	190	--	--	--	80	--	--
AUG 17...	--	1	--	220	--	--	--	60	--	--
SEP 06...	0	2	400	200	1	0	2	30	2	30

GREEN RIVER BASIN

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

		DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	
	DATE											
	OCT 06...	90	--	--	--	--	--	--	--	--	--	
	NOV 16...	130	--	--	--	--	--	--	--	--	--	
	DEC 13...	110	.2	7	1	2400	--	10	.00	0	0	
	JAN 25...	70	--	4	--	--	2.7	--	--	--	--	
	FEB 11...	20	--	--	--	--	--	--	--	--	--	
	MAR 15...	50	.0	2	1	2300	--	10	.00	1	0	
	APR 14...	260	--	--	--	--	--	--	--	--	--	
	MAY 19...	120	--	7	--	--	4.6	--	--	--	--	
	JUN 20...	50	.0	4	2	2500	--	0	.00	3	0	
	JUL 12...	80	--	--	--	--	--	--	--	--	--	
	AUG 17...	130	--	5	--	--	2.8	--	--	--	--	
	SEP 06...	220	.0	6	1	2400	--	0	.00	2	0	
		TOTAL FILT- RABLE RESIDUE	TOTAL NON- FILT- RABLE RESIDUE	DIS- SOLVED GROSS ALPHA AS U-NAT.	SUS- PENDE D GROSS ALPHA AS U-NAT.	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDE D GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS AS SR90 /Y90 (PC/L)	SUS- PENDE D GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD)	DIS- SOLVED NATURAL URANIUM (U)	
	DATE	TIME	(MG/L)	(MG/L)	(UG/L)	(UG/L)	(PC/L)	(PC/L)	(PC/L)	(PC/L)	(UG/L)	
	SEP 06...	1300	1000	50	<15	5.2	14	3.5	11	2.8	.13	
		PCB IN BOTTOM MA- TERIAL	ALDRIN IN BOTTOM MA- TERIAL	CHLOR- DANE IN BOTTOM MA- TERIAL	DDD IN BOTTOM MA- TERIAL	DDE IN BOTTOM MA- TERIAL	DDT IN BOTTOM MA- TERIAL	DI- AZINON IN BOTTOM MA- TERIAL	DI- ELDRIN IN BOTTOM MA- TERIAL	ENDRIN IN BOTTOM MA- TERIAL	ETHION IN BOTTOM MA- TERIAL	HEPTA- CHLOR IN BOTTOM MA- TERIAL
	DATE	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)
	SEP 06...	0	.0	0	.0	.4	.0	.0	.0	.0	.0	.0
		HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL	LINDANE IN BOTTOM MA- TERIAL	MALA- THION IN BOTTOM MA- TERIAL	METHYL PARA- THION IN BOT- TOM MA- TERIAL	METHYL TRI- THION IN BOT- TOM MA- TERIAL	PARA- THION IN BOTTOM MA- TERIAL	TOX- APHENE IN BOTTOM MA- TERIAL	TRI- THION IN BOTTOM MA- TERIAL	2,4-D IN BOTTOM MA- TERIAL	2,4,5-T IN BOTTOM MA- TERIAL	SILVEX IN BOTTOM MA- TERIAL
	DATE	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)
	SEP 06...	.0	.0	.0	.0	.0	.0	0	.0	0	0	0

STATION NUMBER	09306061	PICEANCE CREEK AB HUNTER C, NEAR RIO HLANCO, CO.		STREAM	SOURCE	AGENCY	USGS
LATITUDE	395102	LONGITUDE	1081530	DRAINAGE AREA	309.00	DATUM	6214.00
				STATE	08	COUNTY	103

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1220		---			1230		---	---	1470	1280	1570
2	1220		---			1100		---	---	1480	1270	1570
3	1210		---			1190		---	---	1480	1250	1580
4	1200		---			1170		---	---	1480	---	1300
5	1200		---			1160		---	---	1450	1290	1200
6	1200		---			1180		---	---	1390	1170	1320
7	1020		---			1200		---	---	1400	1290	1370
8	1090		---			1230		---	---	1410	1300	1380
9	1200		---			1260		---	---	1460	1300	1390
10	1270		---			1250		---	---	1460	1320	1400
11	1240		---			1240		---	---	1490	1320	1330
12	1270		---			1260		---	---	1390	1330	1310
13	1270		---			1300		---	---	1390	1340	1370
14	1280		---			1250		---	---	1350	1340	1380
15	1340		1220			1260		---	---	1340	1360	1370
16	1320		1120			---		---	---	---	1390	1380
17	1370		1110			1260		---	---	---	1310	1380
18	1320		1280			1160		---	---	---	1280	1380
19	1470		1290			1150		---	---	---	1370	1380
20	1340		1130			1180		1050	---	---	1240	1310
21	1340		1180			1220		1070	1410	---	1330	1300
22	1340		1170			1230		1090	1390	---	1370	1300
23	1350		1200			1200		1080	1440	---	1400	1300
24	1360		---			---		1080	1460	---	1440	1360
25	1330		---			---		1120	1460	---	1470	1370
26	1360		---			---		1070	1480	---	1500	1370
27	1360		---			---		1050	1460	1330	1420	1370
28	1350		---			---		1080	1480	1320	1540	1360
29	1390		---			---		1150	1470	1320	1560	1360
30	1350		---			---		1210	1490	1310	1580	1370
31	1360		---			---		1220	---	1300	1570	---

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY	MARCH
1	15.5	6.5								9.0 1.5
2	12.5	9.0								4.5 .0
3	14.0	8.5								7.5 1.0
4	14.5	6.5								5.0 .0
5	13.0	5.0								4.5 .0
6	11.0	6.5								7.0 .0
7	12.5	4.0								9.5 .0
8	13.5	3.5								10.0 .5
9	14.5	4.5								6.0 .5
10	14.5	5.0								3.5 .5
11	13.0	6.0								7.5 .0
12	13.5	5.0								8.0 .0
13	13.5	4.5								10.5 .5
14	13.5	4.5								5.0 .5
15	13.0	4.5								10.0 .0
16	13.0	4.5								---
17	13.0	5.0								6.0 2.5
18	9.5	3.5								7.5 1.5
19	10.5	1.5								7.5 .0
20	11.0	2.5								9.0 1.5
21	11.0	2.5								11.5 .0
22	11.0	3.0								13.5 .0
23	10.5	4.0								14.0 1.0
24	11.0	4.5								---
25	9.0	4.0								---
26	7.5	4.0								9.5 6.0
27	9.5	2.5								---
28	9.5	2.5								---
29	9.5	2.5								---
30	9.5	3.0								---
31	9.5	3.0								---

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	22.5	9.0	20.5	10.5	21.5	11.0
2	---	---	---	---	---	---	22.0	11.5	21.0	11.0	21.5	9.5
3	---	---	---	---	---	---	22.0	9.5	19.5	12.5	15.0	5.5
4	---	---	---	---	---	---	17.5	11.5	---	---	19.5	9.5
5	---	---	---	---	---	---	22.0	11.0	22.0	14.5	21.5	10.5
6	---	---	---	---	---	---	20.5	10.0	22.5	11.0	21.5	10.5
7	---	---	---	---	---	---	22.5	9.0	23.0	11.0	20.5	11.0
8	---	---	---	---	---	---	21.5	8.5	21.5	11.0	19.5	11.5
9	---	---	---	---	---	---	24.5	10.5	23.5	9.5	18.5	9.0
10	---	---	---	---	---	---	24.5	8.0	22.5	9.0	19.0	10.0
11	---	---	---	---	---	---	25.5	8.0	20.0	10.0	15.0	12.5
12	---	---	---	---	---	---	25.5	9.0	21.5	10.0	17.0	10.5
13	---	---	---	---	---	---	22.5	11.5	18.5	10.0	19.0	9.0
14	---	---	---	---	---	---	22.0	11.0	18.5	10.5	17.5	9.0
15	---	---	---	---	---	---	21.0	10.0	21.0	12.0	17.5	10.5
16	---	---	---	---	---	---	---	---	22.5	13.0	18.0	9.5
17	---	---	---	---	---	---	---	---	17.0	13.5	16.0	9.5
18	---	---	---	---	---	---	---	---	19.5	13.5	17.5	7.0
19	---	---	---	---	---	---	---	---	21.0	12.0	15.5	8.0
20	---	---	---	---	---	---	---	---	21.0	12.5	17.5	8.5
21	---	---	---	---	19.5	12.0	---	---	19.5	11.5	16.0	9.5
22	---	---	---	---	22.5	7.5	---	---	22.5	11.5	14.5	8.0
23	---	---	---	---	26.0	8.5	---	---	22.5	12.0	15.5	8.0
24	---	---	---	---	25.0	10.0	---	---	18.5	13.0	14.5	5.5
25	---	---	---	---	24.5	10.0	---	---	22.5	12.5	16.5	6.5
26	---	---	---	---	26.5	11.5	---	---	21.0	11.5	15.5	9.0
27	14.5	8.5	---	---	23.5	11.0	19.5	10.0	18.5	10.5	16.0	7.5
28	13.0	6.0	---	---	26.0	10.0	23.5	11.0	20.5	10.5	17.5	8.5
29	---	---	---	---	23.5	9.5	24.0	8.5	21.0	9.0	15.5	9.0
30	---	---	---	---	25.0	8.5	24.0	8.5	21.0	10.0	12.0	8.5
31	---	---	---	---	---	---	24.0	9.5	21.0	10.5	---	---

PH (UNITS), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	8.1	---	---	---	8.1	---	8.2	8.2	8.2	8.1	8.2
2	8.4	8.0	---	---	---	8.2	---	8.2	8.2	8.2	8.2	8.2
3	8.4	8.2	---	---	---	8.1	---	8.3	8.3	8.2	8.1	8.3
4	8.4	8.1	---	---	---	8.1	---	8.2	8.3	8.2	---	8.0
5	8.4	8.2	---	---	---	8.1	---	8.2	8.3	8.3	8.2	8.1
6	8.3	8.0	---	---	---	8.3	---	8.2	8.3	8.3	8.0	8.1
7	8.1	8.2	---	---	---	8.5	---	8.2	8.3	8.3	8.2	8.1
8	8.1	8.2	---	---	---	8.4	---	8.2	8.3	8.3	8.2	8.1
9	8.1	8.1	---	---	---	8.3	---	8.2	8.3	8.3	8.2	8.2
10	8.1	8.2	---	---	---	8.1	---	8.2	8.4	8.3	8.2	8.2
11	8.1	8.1	---	---	---	8.1	---	8.2	8.4	8.3	8.2	8.2
12	8.1	8.1	---	---	---	8.0	---	8.2	8.4	8.2	8.2	8.2
13	8.1	8.1	---	---	---	8.3	---	8.1	8.3	8.2	8.2	8.2
14	8.1	8.0	---	---	---	8.3	---	8.1	8.3	8.3	8.2	8.2
15	8.1	8.1	8.1	---	---	8.0	---	8.2	---	8.3	8.2	8.2
16	8.1	8.2	8.2	---	---	---	---	8.2	---	8.3	8.2	8.2
17	8.1	---	8.0	---	---	8.1	---	8.2	---	8.3	8.2	8.3
18	8.1	---	8.0	---	---	8.2	---	8.1	---	7.8	8.2	8.2
19	8.1	---	8.1	---	---	8.2	---	8.2	---	8.0	8.2	8.3
20	8.0	---	8.1	---	---	8.3	---	8.2	---	8.1	8.1	8.3
21	8.1	---	8.3	---	---	8.4	---	8.2	8.3	8.1	8.2	8.3
22	8.1	---	8.0	---	---	8.1	---	8.2	8.3	8.2	8.3	8.3
23	8.0	---	8.3	---	---	8.1	---	8.2	8.3	8.1	8.3	8.3
24	8.0	---	---	---	---	---	---	8.2	8.2	8.0	8.3	8.3
25	8.0	---	---	---	---	8.2	---	8.2	8.2	8.0	8.2	8.3
26	8.1	---	---	---	---	---	---	8.2	8.3	8.0	8.2	8.3
27	8.0	---	---	---	---	---	8.4	8.2	8.3	8.1	8.2	8.3
28	8.0	---	---	---	---	---	8.3	8.2	8.2	8.1	8.2	8.2
29	8.1	---	---	---	---	---	8.3	8.2	8.2	8.1	8.2	8.2
30	8.1	---	---	---	---	---	8.2	8.2	8.2	8.1	8.2	8.2
31	8.1	---	---	---	---	---	---	8.2	---	8.1	8.2	---

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO--CONTINUED

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
1	11.5	8.7									10.7	9.6
2	11.3	9.2									11.4	10.5
3	11.8	9.3									11.3	10.3
4	12.1	9.7									11.7	10.6
5	12.4	10.0									11.5	10.4
6	---	---									11.2	9.7
7	---	---									10.7	8.6
8	---	---									10.0	7.9
9	---	---									9.2	8.0
10	---	---									8.7	7.9
11	11.1	7.3									8.8	7.6
12	11.0	7.2									8.8	7.5
13	11.1	7.1									8.7	7.0
14	11.0	7.1									8.6	8.0
15	10.9	7.2									---	---
16	11.0	7.3									---	---
17	11.0	7.4									9.5	8.8
18	11.2	7.7									9.8	8.7
19	11.3	7.7									10.1	8.7
20	11.2	7.6									9.9	8.6
21	10.9	7.5									10.3	8.2
22	11.1	7.2									10.3	7.9
23	11.4	7.5									10.0	8.1
24	11.8	7.4									---	---
25	11.8	7.6									9.3	8.5
26	12.1	7.7									---	---
27	12.4	7.9									---	---
28	12.4	7.9									---	---
29	12.5	7.7									---	---
30	12.7	7.8									---	---
31	12.7	7.8									---	---
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
1		---			---	---	9.6	5.7			---	---
2		---			---	---	9.7	5.6			---	---
3		---			---	---	10.0	5.7			---	---
4		---			---	---	10.0	5.7			---	---
5		---			---	---	10.4	5.7			---	---
6		---			---	---	9.3	5.2			---	---
7		---			---	---	9.3	4.9			7.6	6.5
8		---			---	---	---	---			7.9	6.9
9		---			---	---	---	---			8.2	7.1
10		---			---	---	---	---			8.5	7.1
11		---			---	---	---	---			8.3	7.1
12		---			---	---	---	---			8.8	7.3
13		---			---	---	---	---			9.3	7.3
14		---			---	---	---	---			9.4	7.2
15		---			---	---	---	---			9.9	7.3
16		---			---	---	---	---			10.2	7.3
17		---			---	---	---	---			10.3	7.3
18		---			---	---	---	---			10.5	7.5
19		---			---	---	---	---			10.8	7.5
20		---			---	---	---	---			10.4	7.5
21		---			10.5	6.1	---	---			10.6	7.6
22		---			11.0	5.2	---	---			10.4	7.6
23		---			11.2	5.0	---	---			10.4	7.7
24		---			10.9	5.3	---	---			11.0	7.6
25		---			11.1	5.5	---	---			11.5	7.5
26		---			11.3	5.0	---	---			11.8	7.5
27		6.8			10.6	5.2	---	---			12.0	7.5
28		6.9			10.7	5.1	---	---			12.0	7.4
29		---			10.2	5.6	---	---			11.9	7.4
30		---			9.9	5.3	---	---			11.1	7.5
31		---			---	---	---	---			---	---

09300061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO--CONTINUED

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
1	---	.27	---	1.1	---	14	8.0	---	2.2	200	6.5	
2	---	.32	---	1.4	---	16	8.0	---	2.2	210	6.8	
3	---	.38	52	1.4	290	15	8.0	---	2.2	230	7.5	
4	---	.53	---	1.6	---	14	8.0	---	1.5	---	25	
5	---	.45	---	2.4	---	12	3.0	---	4.5	---	50	
6	---	.41	123	3.1	---	9.7	1.5	---	3.0	---	25	
7	20	.52	104	2.5	---	9.2	.90	---	2.2	---	11	
8	27	.64	74	1.8	---	8.7	1.5	---	3.0	---	25	
9	39	.72	32	.74	---	8.2	2.2	---	3.0	---	17	
10	29	.56	49	1.0	153	7.8	1.5	170	7.3	240	8.4	
11	15	.31	62	1.3	---	3.7	1.5	100	3.5	250	8.8	
12	42	.94	24	.52	---	3.7	.90	---	3.0	---	25	
13	---	.98	190	4.2	---	4.1	1.5	---	3.0	---	25	
14	---	.66	80	1.8	---	4.3	2.2	---	3.0	---	25	
15	---	.65	62	1.4	115	5.0	2.2	---	3.0	550	19	
16	---	.73	60	1.3	70	3.0	2.2	---	3.0	550	19	
17	---	1.1	80	1.9	75	3.0	3.0	---	3.0	430	15	
18	---	1.1	100	2.7	80	3.2	8.0	---	3.0	190	6.2	
19	38	1.0	132	3.9	---	3.0	3.0	---	6.0	---	17	
20	---	.94	150	4.1	---	3.4	6.0	---	6.0	---	17	
21	---	.73	160	4.8	---	3.4	3.0	---	3.0	---	7.0	
22	---	.54	170	5.5	---	3.8	3.0	---	2.2	---	7.0	
23	---	.61	166	5.4	---	4.9	3.0	270	8.7	500	16	
24	---	.49	---	5.2	---	7.8	3.0	238	7.1	700	25	
25	---	.51	---	5.2	---	6.1	1.5	185	5.5	1650	98	
26	---	.45	---	5.3	140	5.3	1.5	---	6.0	610	25	
27	18	.38	---	4.5	120	4.5	20	---	4.5	470	15	
28	22	.47	---	5.5	115	4.3	100	---	2.2	---	17	
29	37	.88	---	6.3	115	4.0	150	---	---	---	17	
30	34	.68	---	8.7	110	3.9	20	---	---	---	35	
31	38	1.0	---	---	100	3.8	20	---	---	---	3.5	
TOTAL	---	20.15	---	96.56	---	202.8	398.10	---	106.8	---	624.7	

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

[illegible]

GREEN RIVER BASIN

09306175 BLACK SULPHUR CREEK NEAR RIO BLANCO, CO

LOCATION.--Lat 39°52'16", long 108°17'18", in SE¼SW¼ sec.16, T.2 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on right bank 600 ft (183 m) upstream from mouth, 0.2 mi (0.3 km) west of Rock School, and 23.7 mi (38.1 km) northwest of Rio Blanco.

DRAINAGE AREA.--103 mi² (267 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,130 ft (1,868 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Diversions for irrigation of about 160 acres (648,000 m²) above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44 ft³/s (1.26 m³/s) June 7, 1975, gage height, 1.55 ft (0.475 m); minimum daily, 1.0 ft³/s (0.028 m³/s) June 21-24, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20 ft³/s (0.57 m³/s) Sept. 12, gage height, 2.33 ft (0.710 m); minimum daily, 1.0 ft³/s (0.028 m³/s) June 21-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	9.2	7.8	7.2	6.8	7.8	5.2	3.8	1.8	1.4	3.4	3.4
2	4.7	9.2	7.3	7.0	6.8	7.8	5.2	3.5	1.6	1.4	3.2	3.4
3	5.0	9.2	7.7	6.8	6.6	7.7	5.2	3.0	1.8	1.4	3.0	4.6
4	4.8	9.2	7.5	6.8	6.8	7.7	5.2	1.9	1.6	1.5	3.0	3.2
5	4.8	9.0	7.7	6.6	7.0	6.8	4.8	2.3	1.6	1.5	3.2	3.2
6	4.8	9.0	7.5	5.7	7.2	6.8	4.6	1.5	1.8	1.5	3.6	2.8
7	4.8	9.0	7.7	5.6	7.2	7.5	3.6	1.6	1.9	1.5	3.5	2.8
8	4.8	9.0	7.7	6.2	7.2	7.7	3.2	1.9	2.3	1.4	3.6	2.8
9	5.0	9.0	7.7	5.4	7.0	7.3	3.6	2.0	2.3	1.4	3.6	2.8
10	5.0	9.0	7.5	5.7	7.0	7.2	4.0	2.0	2.0	1.4	3.8	2.8
11	5.1	9.0	7.2	5.7	7.2	7.2	4.4	2.0	2.0	1.4	3.8	3.8
12	5.0	9.0	7.3	5.8	7.2	6.3	4.6	2.3	2.2	1.4	3.8	5.6
13	5.0	9.0	7.2	6.3	7.3	6.8	3.6	5.0	2.2	1.5	3.8	3.8
14	5.1	9.0	7.0	6.3	7.2	6.8	3.2	7.0	2.0	1.5	3.8	3.6
15	5.2	9.0	7.0	6.2	7.2	6.6	3.4	6.4	1.9	1.4	4.2	3.5
16	5.2	8.8	7.0	6.2	7.2	6.8	3.4	5.0	1.5	1.5	4.2	3.4
17	5.2	8.8	7.2	6.3	7.0	7.0	3.4	4.4	1.5	1.5	4.0	3.4
18	5.1	8.8	6.8	5.8	6.8	7.0	3.5	4.2	1.1	1.5	4.2	3.4
19	5.1	8.8	6.8	6.3	6.8	7.0	3.8	4.4	1.1	3.7	4.2	3.2
20	7.2	8.8	6.5	6.5	6.8	7.0	3.6	4.4	1.1	4.0	4.2	3.2
21	9.8	8.6	6.5	6.3	7.2	7.0	3.8	4.4	1.0	4.2	4.2	3.2
22	9.6	8.6	6.5	6.3	7.5	7.0	3.2	3.4	1.0	4.0	3.6	3.2
23	9.4	8.4	6.0	6.0	7.7	7.0	3.2	3.4	1.0	5.8	3.2	3.2
24	9.2	8.4	5.7	6.2	7.8	7.0	3.5	2.7	1.0	4.8	3.4	3.2
25	9.4	8.4	6.0	6.2	7.8	7.0	3.8	2.2	1.2	4.0	4.0	3.2
26	9.8	8.2	6.3	6.3	7.2	7.0	4.0	2.3	1.2	3.8	3.4	3.2
27	9.6	7.0	7.3	5.8	7.7	6.6	3.8	2.6	1.2	3.6	5.0	3.2
28	9.6	6.8	6.8	6.5	7.7	6.6	4.2	2.2	1.2	3.5	3.5	3.2
29	9.4	7.7	6.5	6.8	---	5.6	3.8	1.9	1.2	3.5	3.4	3.0
30	9.4	7.5	6.8	7.0	---	5.8	3.4	1.8	1.2	3.4	3.4	3.2
31	9.4	---	6.6	6.8	---	5.2	---	1.9	---	3.4	3.4	---
TOTAL	205.5	259.4	217.1	194.6	200.9	214.6	118.2	97.4	46.5	77.8	114.6	100.5
MEAN	6.63	8.65	7.00	6.28	7.18	6.92	3.94	3.14	1.55	2.51	3.70	3.35
MAX	9.8	9.2	7.8	7.2	7.8	7.8	5.2	7.0	2.3	5.8	5.0	5.6
MIN	4.0	6.8	5.7	5.4	6.6	5.2	3.2	1.5	1.0	1.4	3.0	2.8
AC-FT	408	515	431	386	398	426	234	193	92	154	227	199
CAL YR 1976	TOTAL	2805.4	MEAN 7.67	MAX 17	MIN 1.6	AC-FT 5560						
WTR YR 1977	TOTAL	1847.1	MEAN 5.06	MAX 9.8	MIN 1.0	AC-FT 3660						

09306175 BLACK SULPHUR CREEK NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1975 to current year.

WATER TEMPERATURE: April 1975 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1975 to current year.

INSTRUMENTATION.--water-quality monitor since April 1975. Pumping sediment sampler since October 1975.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 2,920 micromhos Oct. 16, 1975; minimum, 924 micromhos Mar. 18, 1976.

WATER TEMPERATURES: Maximum, 24.0°C July 30, 1976; minimum, 0.0°C many days during November 1976 to March 1977.

SEDIMENT CONCENTRATIONS: Maximum daily, 6,400 mg/L July 19, 1977; minimum daily, 10 mg/L Sept. 12, 13, 1976.

SEDIMENT LOADS: Maximum daily, 147 tons (133 t) July 15, 1977; minimum daily, 0.06 ton (0.05 t) May 7, June 25, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 2,050 micromhos May 5; minimum, 1,070 micromhos Mar. 16.

WATER TEMPERATURES: Maximum, 23.5°C July 25; minimum, freezing point many days during November to March.

SEDIMENT CONCENTRATIONS: Maximum, 6,400 mg/L July 19; minimum 14 mg/L Oct. 16.

SEDIMENT LOADS: Maximum, 147 tons (133 t) July 15; minimum, 0.06 ton (0.05 t) May 7, June 25.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO
NOV 17...	1115	8.4	1800	8.3	4.0	10.4	640	200	97	95	140	2.4
DEC 13...	1315	7.6	1550	8.1	2.5	9.0	650	190	100	96	150	2.6
JAN 25...	1045	5.3	1660	8.1	1.0	--	690	230	110	100	150	2.5
FEB 11...	0900	6.8	1580	8.2	.5	8.8	650	180	98	96	150	2.6
MAR 15...	0930	7.0	1580	8.2	1.0	10.2	640	160	100	94	150	2.6
APR 14...	0900	3.2	1770	8.2	8.0	9.3	730	610	110	110	--	--
MAY 19...	1045	4.5	1600	8.1	9.0	8.1	670	210	100	100	170	2.9
JUN 20...	1300	2.5	1750	8.0	16.5	7.8	730	230	110	110	190	3.1
JUL 12...	0830	1.4	1860	7.9	9.5	7.6	780	270	110	120	190	3.0
AUG 17...	0900	4.0	1540	8.2	13.0	7.9	660	210	99	100	160	2.7
SEP 06...	1115	3.0	1610	8.2	13.0	8.2	660	190	97	99	160	2.7

GREEN RIVER BASIN

09306175 BLACK SULPHUR CREEK NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LIVITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TJENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)
NOV 17...	1.8	536	0	440	450	8.1	.5	17	1080	24.6	.24	.00
DEC 13...	2.1	557	0	465	460	8.3	.5	20	1120	23.0	.38	.02
JAN 25...	1.8	558	0	458	470	8.4	.5	19	1140	17.5	.35	.05
FEB 11...	1.8	569	0	467	470	8.2	.4	18	1130	20.7	.31	.03
MAR 15...	1.8	584	0	479	450	8.9	.5	19	1120	21.2	.31	.02
APR 14...	2.1	150	0	123	510	9.3	.5	17	--	--	.12	.01
MAY 19...	1.7	560	0	460	510	8.7	.5	16	1190	14.6	.20	.03
JUN 20...	2.4	620	0	510	590	11	.6	18	1350	9.22	.60	.03
JUL 12...	2.4	620	0	510	510	9.6	.5	18	1370	5.29	.15	.03
AUG 17...	2.1	550	0	450	490	8.2	.5	18	1160	12.5	.07	.08
SEP 06...	2.2	570	0	470	500	8.4	.5	19	1180	9.72	.54	.00

09306175 BLACK SULPHUR CREEK NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)
NOV 17...	1115	2	0	130	0	0	30
DEC 13...	1315	2	0	130	0	4	10
JAN 25...	1045	1	100	140	0	0	40
FEB 11...	0900	2	0	130	1	0	20
MAR 15...	0930	1	0	130	0	1	40
APR 14...	0900	1	0	140	0	1	50
MAY 19...	1045	1	0	140	1	3	70
JUN 20...	1300	2	0	170	1	7	40
JUL 12...	0830	1	0	160	3	1	80
AUG 17...	0900	1	400	150	1	0	30
SEP 06...	1115	1	400	150	0	2	50

DATE	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED MANGANESE (MN) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED SELENIUM (SE) (UG/L)	DIS- SOLVED STRONTIUM (SR) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV 17...	1	20	50	1.0	1	4700	20
DEC 13...	2	30	80	.2	1	4700	10
JAN 25...	1	10	60	.0	1	4900	10
FEB 11...	1	20	40	.0	1	4500	10
MAR 15...	0	10	60	.0	1	4500	10
APR 14...	3	10	80	.0	1	5300	0
MAY 19...	0	20	60	.0	0	5500	20
JUN 20...	3	10	60	.0	1	5900	0
JUL 12...	2	20	80	.0	1	5900	8
AUG 17...	2	20	60	.0	1	4700	2
SEP 06...	2	80	70	.0	0	4900	10

09306175 BLACK SULPHUR CREEK NEAR RIO BLANCO, CU--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1580	1480	1480	1420	1340	1380	1320	1490	1640	1720	1470	1610
2	1400	1480	1430	1410	1350	1360	1320	1550	1700	1710	1470	1700
3	1530	1460	1460	1370	1370	1370	1400	1760	1550	1670	1500	---
4	1620	1460	1490	1370	1380	1350	1350	1740	1480	1610	1490	1630
5	1610	1460	1490	1410	1360	1330	1400	1820	1520	1590	1480	1630
6	1630	1460	1490	1460	1360	1320	1480	1870	1530	1570	---	1590
7	1660	1440	1430	1460	1360	1310	1550	1740	1640	1510	1520	1500
8	1700	1450	1460	1390	1370	1340	1590	---	1630	1630	1490	1440
9	1740	1450	1540	1490	1360	1330	1550	---	1540	1710	1470	1460
10	1770	1450	1540	1440	1340	1350	1580	---	1530	1700	1490	1470
11	1780	1440	1540	1460	1330	1380	1650	---	1590	1700	1500	1510
12	1760	1420	1530	1440	1340	1400	1660	---	1610	1700	1520	---
13	1750	1410	1570	1370	1330	1420	1680	---	1530	1550	1520	1650
14	1730	1420	---	1400	1330	1450	---	---	1480	1500	1510	1640
15	1810	1410	1490	1390	1340	1430	---	---	1500	1540	1510	1670
16	1800	1420	1500	1380	1330	1230	---	---	1570	1640	1540	1670
17	1790	1450	1490	1400	1330	1140	---	---	1660	1690	1560	1650
18	1790	1470	1500	1390	1340	1220	---	---	1700	1680	1560	1650
19	1800	1460	1520	1390	1350	1230	1720	---	1650	---	1500	1650
20	1730	1460	1530	1390	1350	1240	1720	1390	1670	1570	1560	1700
21	1610	1460	1530	1390	1330	1320	1670	1300	1740	1520	1540	1690
22	1600	1470	1510	1370	1310	1350	1520	1390	1760	1620	1590	1660
23	1580	1470	1490	1360	1340	1450	1560	1520	1740	---	1570	1620
24	1580	1470	1470	1360	1380	1390	1510	1610	1700	---	1570	1670
25	1550	1460	1480	1390	1390	1450	1400	1470	1720	1580	1570	1640
26	1520	1470	1460	1390	1440	1550	1330	1380	1700	1570	1580	1660
27	1510	1530	1460	1380	1400	1580	1410	1440	1730	1530	1620	1690
28	1500	1590	1480	1390	1390	1590	1380	1470	1680	1500	1670	1680
29	1480	1500	1470	1380	---	1670	1400	1560	1720	1500	1620	1650
30	1490	1500	1440	1380	---	---	1520	1500	1740	1510	1620	1560
31	1480	---	1440	1370	---	1270	---	1660	---	1510	1610	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	15.5	7.5	10.5	3.0	5.5	.5	5.0	1.5	6.5	2.5	9.5	.5
2	12.5	9.0	10.5	3.0	5.5	.0	4.5	.5	7.5	2.5	7.0	.5
3	14.0	9.0	11.0	4.5	6.0	1.0	5.0	2.5	7.0	.0	9.0	2.0
4	14.5	7.5	10.5	3.0	5.5	.5	5.5	2.0	7.5	.0	7.5	.0
5	13.0	6.0	10.5	3.5	5.5	.5	3.0	.5	7.5	.5	7.0	.0
6	12.0	7.5	10.0	3.0	5.5	.5	1.5	.0	7.5	.0	9.5	.0
7	13.0	5.5	10.0	3.0	6.5	1.5	1.0	.0	7.5	.0	10.5	.0
8	14.0	4.5	9.5	3.0	7.0	1.5	2.0	.0	8.0	.5	11.0	1.0
9	14.5	5.0	9.5	2.5	6.0	1.5	1.0	.0	7.5	.5	7.0	1.0
10	14.5	5.5	8.0	2.5	6.5	1.0	.5	.0	8.0	.5	4.0	.5
11	13.0	7.0	8.5	1.5	4.5	.5	1.0	.0	7.0	.5	9.5	.0
12	14.0	6.0	6.5	1.0	5.5	.5	1.0	.0	8.0	.5	10.5	.0
13	14.0	5.5	6.0	3.0	---	---	3.5	.0	9.5	1.5	11.0	1.5
14	13.5	5.0	6.5	1.5	---	---	2.5	.0	8.5	2.0	6.5	.5
15	13.5	5.0	7.5	1.0	---	---	4.0	.0	9.5	.5	11.5	.0
16	13.5	5.5	8.5	3.5	4.0	.0	3.5	.0	10.5	1.0	12.0	.0
17	12.5	6.0	8.5	1.5	4.5	.0	6.0	.0	10.0	2.0	8.0	3.5
18	10.5	4.0	8.5	2.0	2.5	.0	7.5	.5	9.5	.5	9.5	2.5
19	11.0	2.5	8.5	1.5	2.0	.0	7.0	1.0	10.5	.0	10.0	.0
20	10.5	3.0	7.5	1.0	1.0	.0	6.5	.0	10.5	.0	10.0	2.5
21	11.0	3.0	6.5	.0	1.0	.0	6.5	1.0	9.0	.5	13.0	1.0
22	11.0	4.0	6.5	.0	1.0	.0	6.5	3.5	6.5	3.0	14.5	1.0
23	10.5	4.0	7.5	.0	2.5	.5	7.5	4.0	8.5	.0	14.5	1.5
24	11.0	4.5	7.0	.0	4.0	1.0	7.0	.5	7.0	2.0	11.0	3.0
25	9.5	3.5	6.5	.5	2.5	.0	5.5	.0	6.5	.0	12.5	4.0
26	8.0	4.0	3.5	.0	5.0	.0	5.0	.0	3.5	.0	12.0	4.0
27	9.5	2.5	1.0	.0	5.0	1.0	6.5	.0	8.0	.0	15.5	2.0
28	9.5	1.5	1.0	.0	3.0	.0	7.0	.0	9.5	.0	8.5	2.0
29	9.5	2.0	3.5	.5	2.0	.0	6.5	.0	---	---	9.0	.5
30	10.0	3.0	5.0	.0	3.5	.0	5.5	.0	---	---	12.5	.5
31	10.0	2.5	---	---	3.0	.0	7.0	.0	---	---	10.5	1.0

09306175 BLACK SULPHUR CREEK NEAR RIO BLANCO, CU--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.0	2.5	15.5	6.0	17.0	7.0	21.0	8.0	23.0	7.5	21.0	10.0
2	7.5	2.0	21.0	4.5	19.5	8.0	19.5	10.5	23.0	8.0	21.5	9.0
3	11.0	1.0	13.5	4.5	18.5	7.5	20.5	9.0	20.5	9.5	15.0	10.0
4	14.0	1.5	18.0	7.0	21.0	7.5	17.5	10.5	19.5	10.0	21.5	9.0
5	15.5	5.0	17.5	7.0	21.0	8.0	21.5	9.5	21.5	11.5	21.0	9.0
6	18.0	3.0	17.0	7.5	20.0	8.5	19.5	9.0	23.0	11.0	22.0	8.5
7	17.0	3.0	17.0	7.0	17.5	8.5	21.0	8.0	23.0	10.5	21.0	9.5
8	18.5	3.5	16.0	7.5	18.0	9.5	19.0	7.5	21.5	10.5	19.5	10.0
9	18.0	3.0	16.0	8.0	18.5	10.0	20.5	9.5	23.0	9.0	19.0	8.0
10	17.5	3.5	13.0	8.0	19.0	8.5	20.5	7.0	21.5	8.5	18.0	8.5
11	15.0	5.5	---	---	20.0	7.0	21.5	7.5	20.5	9.5	14.5	11.5
12	12.0	6.5	---	---	20.5	7.0	22.0	7.5	21.5	9.0	15.0	10.0
13	16.0	2.5	---	---	21.0	7.0	18.5	9.5	18.5	9.0	19.5	7.5
14	16.0	3.0	---	---	20.0	7.0	20.5	9.0	20.5	9.5	18.5	7.5
15	8.5	5.0	---	---	19.5	6.5	19.5	8.5	21.0	11.5	16.5	9.5
16	17.0	6.5	---	---	20.5	7.0	19.0	9.0	22.5	12.5	18.0	8.5
17	20.0	4.0	---	---	20.0	7.0	17.5	8.5	18.0	12.5	15.5	8.5
18	18.5	5.0	---	---	20.0	7.5	18.0	10.0	22.0	12.5	18.0	5.5
19	7.5	5.0	---	---	20.5	6.5	17.5	11.0	22.5	11.5	15.5	6.5
20	18.0	4.0	15.0	4.5	18.0	7.0	23.0	11.5	23.0	12.0	17.5	6.5
21	20.0	2.0	18.5	3.5	18.5	7.0	16.5	12.5	20.0	11.0	16.5	8.5
22	20.0	3.0	17.0	4.5	20.5	7.5	19.0	11.5	22.0	11.0	14.5	6.5
23	20.5	3.0	14.5	6.0	22.0	7.5	18.5	11.5	22.5	11.5	16.0	7.0
24	21.0	4.0	14.0	5.5	22.5	8.5	19.5	12.0	19.0	12.5	14.5	4.0
25	19.5	4.0	16.0	8.0	21.5	9.0	23.5	12.0	22.5	12.5	16.5	5.0
26	15.5	4.5	15.0	7.5	23.0	9.5	22.0	10.0	21.0	11.0	16.0	8.0
27	16.0	5.5	13.0	7.0	20.5	9.5	17.0	10.0	18.5	10.5	16.0	5.5
28	14.5	6.5	15.5	8.0	22.0	8.5	23.0	9.5	20.0	10.0	18.0	6.5
29	21.0	6.5	16.5	6.5	21.0	8.0	18.5	9.0	21.0	9.0	15.0	8.0
30	20.0	5.5	19.0	7.5	22.0	7.5	22.5	10.0	21.0	9.0	12.0	7.0
31	---	---	19.5	6.5	---	---	22.5	8.0	20.5	10.5	---	---

GREEN RIVER BASIN

09306175 BLACK SULPHUR CREEK NEAR RIO BLANCO, CO--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	29	.31	40	.99	105	2.2	248	4.8	---	4.0	---	5.5
2	21	.27	33	.82	97	1.9	240	4.5	---	4.0	---	5.5
3	25	.34	31	.77	87	1.8	237	4.4	---	3.7	---	5.2
4	22	.29	---	8.0	93	1.9	233	4.3	---	4.0	---	5.2
5	22	.29	---	7.8	125	2.6	230	4.1	---	4.2	---	4.0
6	24	.31	---	7.8	111	2.2	306	4.7	---	4.6	---	4.0
7	23	.30	---	7.8	115	2.4	300	4.5	---	4.6	---	5.0
8	25	.32	---	7.8	108	2.2	313	5.2	235	4.6	---	5.2
9	27	.36	---	7.8	---	5.2	247	3.6	228	4.3	---	4.7
10	27	.36	---	7.8	---	5.0	---	2.6	207	3.9	---	4.6
11	25	.34	---	7.8	---	4.6	---	2.6	240	4.7	---	4.6
12	26	.35	---	7.8	---	4.7	---	2.8	366	7.1	---	3.3
13	44	.59	---	7.8	---	4.6	---	3.3	356	7.0	---	4.0
14	62	.85	---	7.8	---	4.2	---	3.3	337	6.6	---	4.0
15	17	.24	---	7.8	155	2.9	---	3.2	397	7.7	249	4.4
16	14	.20	---	7.4	294	5.6	---	3.2	423	8.2	282	5.2
17	20	.28	46	1.1	268	5.2	---	3.3	376	7.1	361	6.8
18	21	.29	---	7.4	285	5.2	---	2.7	336	6.2	296	5.6
19	21	.29	---	7.4	274	5.0	---	3.3	312	5.7	---	4.2
20	54	1.0	---	7.4	270	4.7	---	3.5	320	5.9	---	4.2
21	25	.66	---	6.8	267	4.7	---	3.3	312	6.1	---	4.2
22	26	.67	---	6.8	290	5.1	---	3.3	275	5.6	---	4.2
23	24	.61	---	6.4	260	4.2	---	3.0	180	3.7	---	4.2
24	34	.84	---	6.4	213	3.3	---	3.2	---	5.5	---	4.2
25	46	1.2	---	6.4	262	4.2	194	3.2	---	5.5	---	4.2
26	58	1.5	---	6.2	242	4.1	222	3.8	---	4.6	---	4.2
27	54	1.4	---	4.3	237	4.7	250	3.9	---	5.2	---	3.7
28	57	1.5	121	2.2	245	4.5	---	3.5	---	5.2	---	3.7
29	60	1.5	149	3.1	277	4.9	---	4.0	---	---	---	2.5
30	56	1.4	115	2.3	256	4.7	---	4.2	---	---	296	4.6
31	50	1.3	---	---	234	4.2	---	4.0	---	---	---	2.1
TOTAL	---	20.16	---	177.98	---	122.7	---	113.3	---	149.5	---	137.0

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

[illegible]

GREEN RIVER BASIN

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 (12 m) downstream from Ryan Gulch, and 23 mi (37 km) northwest of Rio Blanco.

DRAINAGE AREA.--485 mi² (1,256 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WRD Colo. 1973: 1972(M).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,070 ft (1,850 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation above station.

AVERAGE DISCHARGE.--13 years, 18.8 ft³/s (0.5324 m³/s), 13,620 acre-ft/yr (16.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 400 ft³/s (11 m³/s), estimated, Mar. 9, 1966, gage height, 6.23 ft (1.899 m); minimum daily, 0.21 ft³/s (0.006 m³/s) May 21, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 136 ft³/s (3.85 m³/s) Sept. 3, gage height, 4.56 ft (1.389 m), from recorded range in stage, only peak above base of 100 ft³/s (2.8 m³/s); maximum gage height, 5.39 ft (1.643 m) Jan. 20 (backwater from ice); minimum daily discharge, 2.0 ft³/s (0.057 m³/s) June 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	18	12	10	21	21	15	8.9	3.1	5.4	5.2	8.2
2	18	18	13	10	21	20	15	8.6	3.1	5.7	5.2	8.0
3	20	21	15	10	21	19	16	7.0	3.1	5.7	5.0	32
4	20	21	15	9.0	22	19	15	6.4	3.5	5.7	5.4	19
5	17	21	15	9.0	22	17	15	7.0	3.1	5.7	6.2	12
6	17	20	15	9.0	21	19	15	6.2	3.1	4.6	7.0	11
7	17	18	15	9.0	21	21	14	6.2	4.1	4.6	6.4	11
8	16	21	15	9.0	22	20	10	6.2	4.1	3.7	5.9	11
9	16	22	15	8.0	21	20	10	6.3	3.1	4.4	5.9	11
10	15	23	15	9.0	22	20	8.6	7.0	3.5	4.4	6.2	10
11	14	23	13	10	22	22	9.2	6.2	2.9	5.0	5.9	14
12	13	22	13	11	21	19	8.6	8.0	2.1	4.8	6.2	18
13	12	23	13	12	20	21	7.5	9.0	2.0	4.4	6.4	10
14	12	25	13	13	19	21	6.4	12	2.9	4.1	6.4	9.9
15	12	24	13	15	20	22	7.2	10	2.9	4.4	8.3	9.9
16	11	24	13	16	19	21	8.6	10	2.9	4.8	8.3	9.6
17	14	22	13	17	19	21	7.5	7.2	2.9	4.6	8.9	9.2
18	14	24	13	17	19	19	7.5	7.0	2.3	4.8	10	8.6
19	13	24	13	17	20	18	7.7	8.0	2.9	12	9.2	8.9
20	14	24	13	18	20	18	8.3	8.6	3.7	4.3	9.2	9.6
21	17	23	13	20	20	16	8.0	9.2	4.1	20	9.6	10
22	18	22	13	21	19	18	7.5	8.6	4.6	10	9.6	10
23	18	22	13	23	19	19	7.5	6.2	5.7	11	9.2	11
24	16	21	14	22	18	22	7.7	5.0	5.0	18	9.9	9.6
25	16	21	14	23	18	29	8.0	4.8	5.2	10	10	8.9
26	16	21	14	27	17	20	8.3	4.4	5.0	7.2	9.2	8.9
27	16	13	14	30	20	21	8.9	5.2	4.8	7.2	12	8.9
28	16	10	14	24	19	21	9.9	5.7	4.1	7.5	9.6	8.9
29	16	10	14	23	---	17	8.9	6.2	4.8	7.2	8.9	8.6
30	16	11	12	25	---	17	7.7	5.0	5.7	6.7	8.3	8.9
31	16	---	10	26	---	16	---	3.5	---	5.7	8.3	---
TOTAL	483	612	420	502.0	563	615	294.5	219.6	110.3	252.3	241.8	334.6
MEAN	15.6	20.4	13.5	16.2	20.1	19.9	9.82	7.08	3.68	8.14	7.80	11.2
MAX	20	25	15	30	22	29	16	12	5.7	4.3	12	32
MIN	11	10	10	8.0	17	16	6.4	3.5	2.0	3.7	5.0	8.0
AC-FT	928	1210	833	996	1120	1220	584	436	219	500	430	564

CAL YR 1976 TOTAL 8007.2 MEAN 21.9 MAX 55 MIN 2.0 AC-FT 15880
WTR YR 1977 TOTAL 4649.1 MEAN 12.7 MAX 43 MIN 2.0 AC-FT 9220

NOTE.--NO GAGE-HEIGHT RECORD SEPT. 1-7.

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.--

SUSPENDED-SEDIMENT DISCHARGE: October 1972 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler since October 1972.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily, 21,700 mg/L July 20, 1977; minimum daily, 10 mg/L May 10, 1977.

SEDIMENT LOADS: Maximum daily, 4,160 tons (3,770 t) July 20, 1977; minimum daily, 0.19 ton (0.17 t) May 10, 1977.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily, 21,700 mg/L July 20; minimum daily, 10 mg/L May 10.

SEDIMENT LOADS: Maximum daily, 4,160 tons (3,770 t) July 20; minimum daily, 0.19 ton (0.17 t) May 10.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO
OCT												
13...	1155	11	1800	8.5	8.0	11.1	690	150	94	110	220	3.7
JAN												
18...	1300	16	1400	8.6	5.0	11.9	560	97	85	83	160	3.0
27...	1220	29	1380	8.4	.5	11.0	570	67	88	83	160	2.9
FEB												
22...	1250	18	1380	8.3	3.0	10.3	530	55	83	78	150	2.8
MAR												
18...	1845	18	1350	8.7	6.0	9.2	550	100	86	80	160	3.0
APR												
19...	1300	7.4	1870	8.4	6.5	10.4	680	120	90	110	220	3.7
MAY												
16...	1400	2.6	1600	8.3	15.0	8.8	610	48	86	94	210	3.7
JUN												
17...	0930	3.1	2000	8.3	13.5	7.7	650	--	76	110	320	5.5
JUL												
14...	1450	4.4	1950	8.3	20.0	--	590	0	69	100	260	4.7
AUG												
16...	1400	9.2	1710	8.8	22.5	8.1	560	47	92	80	210	3.9
SEP												
21...	1255	10	1680	8.2	15.0	11.6	580	120	80	91	170	3.1

DATE	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED NITRATE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)
OCT												
13...	3.5	655	0	537	540	15	.7	20	1330	42.4	.03	.05
JAN												
18...	2.5	560	1	460	360	13	.8	17	1000	44.0	.40	.02
27...	2.3	606	1	499	380	12	.7	18	1050	83.9	.50	.02
FEB												
22...	2.4	581	0	477	360	12	.6	16	994	49.1	.40	.06
MAR												
18...	2.6	546	0	450	370	12	.7	17	1000	51.0	.38	.05
APR												
19...	2.9	690	0	570	520	14	.7	16	1320	26.4	.05	.07
MAY												
16...	3.4	680	0	560	450	15	.8	17	1220	8.56	.26	.08
JUN												
17...	3.7	--	0	--	540	22	1.1	17	--	--	.06	.09
JUL												
14...	3.2	740	0	610	500	18	.9	13	1330	15.8	.03	.06
AUG												
16...	3.9	630	0	520	470	15	.7	17	1200	29.8	.09	.01
SEP												
21...	3.6	560	0	460	420	15	.1	.6	1060	29.5	.02	.06

GREEN RIVER BASIN

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAU- MIUM (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)
OCT 13...	1155	--	--	--	--	--	80
JAN 18...	1300	4	0	180	0	3	30
27...	1220	1	100	180	0	2	80
FEB 22...	1250	1	0	180	1	4	40
MAR 18...	1845	1	100	160	0	0	--
APR 19...	1300	3	0	180	1	2	60
MAY 16...	1400	2	100	190	1	2	60
JUN 17...	0930	5	100	320	1	4	70
JUL 14...	1450	2	0	270	5	8	60
AUG 16...	1400	2	500	250	4	8	10
SEP 21...	1255	2	0	220	1	3	40

DATE	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT 13...	--	--	70	--	--	--	--
JAN 18...	0	10	60	.0	1	3400	10
27...	2	10	30	.0	1	3300	0
FEB 22...	2	10	50	.0	1	3100	20
MAR 18...	2	10	30	.0	1	3200	0
APR 19...	3	20	120	.0	1	4100	10
MAY 16...	5	20	130	.0	1	3500	20
JUN 17...	4	10	180	.0	2	3800	0
JUL 14...	26	20	100	.3	1	3500	20
AUG 16...	3	20	120	.0	1	3700	30
SEP 21...	5	20	100	.0	0	3400	20

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	155	7.1	---	10	---	2.0	---	1.0	---	20	---	20
2	---	10	---	10	---	2.0	---	1.0	---	20	---	16
3	---	15	---	20	---	5.0	---	1.0	---	20	---	13
4	---	15	---	20	---	5.0	---	1.0	---	25	---	13
5	---	8.0	142	8.1	---	5.0	---	1.0	---	25	---	8.0
6	---	8.0	---	16	---	5.0	---	1.0	---	20	---	13
7	---	8.0	---	10	---	5.0	---	1.0	---	20	---	20
8	---	6.0	---	20	---	5.0	---	1.0	---	25	---	16
9	---	6.0	---	25	---	5.0	---	1.0	---	20	---	16
10	---	5.0	---	30	---	5.0	---	1.0	---	25	---	16
11	---	3.0	---	30	---	2.0	---	1.0	---	25	140	8.3
12	---	2.0	---	25	---	2.0	---	1.0	---	20	---	13
13	60	1.9	---	30	---	2.0	---	2.0	---	16	---	20
14	58	1.9	---	42	---	2.0	---	2.0	356	18	---	20
15	56	1.8	---	35	---	2.0	---	5.0	---	16	---	25
16	90	2.7	---	35	---	2.0	---	6.0	---	13	---	20
17	110	4.2	---	25	---	2.0	---	8.0	600	31	---	20
18	---	3.0	---	35	---	2.0	---	8.0	---	13	320	16
19	---	2.0	---	35	---	2.0	---	8.0	---	16	---	10
20	---	3.0	---	35	---	2.0	---	10	---	16	---	10
21	190	8.7	---	30	20	.70	---	16	---	16	---	10
22	---	10	---	25	---	2.0	---	20	297	15	---	10
23	---	10	---	25	---	2.0	---	30	---	13	520	27
24	---	6.0	---	20	---	3.0	---	25	---	10	---	25
25	---	6.0	---	20	---	3.0	---	30	---	10	---	80
26	---	6.0	---	20	---	3.0	---	60	---	8.0	---	16
27	---	6.0	---	2.0	---	3.0	450	36	---	16	638	36
28	---	6.0	---	1.0	---	3.0	---	35	---	13	845	48
29	---	6.0	---	1.0	---	3.0	---	30	---	---	---	8.0
30	---	6.0	---	1.0	---	2.0	---	42	---	---	---	8.0
31	---	6.0	---	---	---	1.0	---	50	---	---	---	6.0
TOTAL	---	190.3	---	641.1	---	89.70	---	435.0	---	505.0	---	587.3

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CU--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCENTRATION (MG/L)		MEAN CONCENTRATION (MG/L)		MEAN CONCENTRATION (MG/L)		MEAN CONCENTRATION (MG/L)		MEAN CONCENTRATION (MG/L)		MEAN CONCENTRATION (MG/L)	
	LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)	
APRIL												
1	---	5.0	72	1.7	40	.33	38	.55	168	2.4	---	.50
2	---	5.0	60	1.4	43	.36	43	.66	138	1.9	---	.20
3	---	6.0	59	1.1	70	.59	44	.68	120	1.6	---	120
4	---	5.0	66	1.1	50	.47	35	.54	132	1.9	---	70
5	---	5.0	58	1.1	38	.32	30	.46	130	2.2	---	40
MAY												
6	---	5.0	82	1.4	36	.30	22	.27	2300	43	---	15
7	452	17	90	1.5	58	.64	29	.36	288	5.0	---	15
8	329	8.9	93	1.6	75	.83	28	.28	156	2.5	225	6.7
9	226	6.1	120	2.0	48	.40	28	.33	182	2.9	218	6.5
10	150	3.5	10	.19	90	.85	34	.40	143	2.4	180	4.9
JUNE												
11	170	4.2	35	.59	83	.65	41	.55	175	2.8	300	11
12	110	2.6	31	.67	80	.45	48	.62	140	2.3	350	17
13	74	1.5	360	8.7	80	.43	35	.42	137	2.4	165	4.5
14	66	1.1	290	9.4	70	.55	26	.29	132	2.3	146	3.9
15	139	2.7	145	3.9	55	.43	34	.40	192	4.3	185	4.9
JULY												
16	132	3.1	100	2.7	60	.47	40	.52	220	4.9	180	4.7
17	107	2.2	62	1.2	60	.47	23	.29	240	5.8	170	4.2
18	99	2.0	78	1.5	48	.30	21	.27	265	7.2	138	3.2
19	68	1.4	58	1.3	135	1.1	3810	321	155	3.9	120	2.9
20	48	1.1	56	1.3	78	.78	21700	4160	205	5.1	112	2.9
AUGUST												
21	35	.76	80	2.0	96	1.1	5790	407	164	4.3	72	1.9
22	40	.81	70	1.6	70	.87	400	11	120	3.1	112	3.0
23	49	.99	42	.70	85	1.3	1830	64	110	2.7	185	5.5
24	40	.83	25	.34	46	.62	6100	185	118	3.2	95	2.5
25	70	1.5	22	.29	58	.81	425	11	85	2.3	88	2.1
SEPTEMBER												
26	58	1.3	105	1.2	60	.81	345	6.7	---	1.6	92	2.2
27	80	1.9	50	.70	66	.86	262	5.1	---	40	99	2.4
28	128	3.4	34	.52	38	.42	224	4.5	---	2.5	112	2.7
29	76	1.8	36	.60	62	.80	205	4.0	---	1.0	125	2.9
30	72	1.5	48	.65	46	.71	180	3.3	---	.50	145	3.5
31	---	---	62	.59	---	---	202	3.1	---	.50	---	---
TOTAL	---	103.19	---	53.54	---	19.02	---	5193.59	---	168.50	---	366.70
TOTAL LOAD FOR YEAR:		8352.94 TONS.										

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 (270 m) upstream from mouth, 1.0 mi (1.6 km) west of White River City, and 17 mi (27 km) west of Meeker.

DRAINAGE AREA.--630 mi² (1,632 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1964 to September 1966, October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,705 ft (1,739 m), from topographic map. Oct. 1, 1964, to Sept. 30, 1966, and Oct. 1, 1970, to July 12, 1974, at several sites 1.1 mi (1.8 km) upstream at different datums.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 5,500 acres (22.3 km²) above station.

AVERAGE DISCHARGE.--9 years, 22.9 ft³/s (0.6485 m³/s), 16,590 acre-ft/yr (20.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 407 ft³/s (11.5 m³/s) Mar. 9, 1966, gage height, 4.20 ft (1.280 m), from floodmarks, site and datum then in use; maximum gage height recorded, 5.32 ft (1.622 m) Feb. 10, 1976 (backwater from ice); minimum daily discharge, 0.50 ft³/s (0.014 m³/s) July 21, 22, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 65 ft³/s (1.84 m³/s) Sept. 4, gage height, 2.97 ft (0.905 m), no peak above base of 100 ft³/s (2.8 m³/s); maximum gage height, 4.67 ft (1.423 m) Jan. 15 (backwater from ice); minimum daily discharge, 0.74 ft³/s (0.021 m³/s) June 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	25	24	18	21	22	19	6.0	3.8	2.7	4.4	5.0
2	19	26	25	20	20	23	19	5.8	3.7	3.2	4.2	5.0
3	20	27	26	22	19	25	18	5.8	3.5	3.7	4.0	5.6
4	22	28	25	17	18	23	19	5.8	3.5	3.8	3.8	29
5	23	27	24	14	18	20	19	5.6	3.7	3.8	4.4	14
6	22	26	23	14	18	22	20	5.2	3.7	3.7	7.2	13
7	22	26	23	15	19	22	19	5.2	3.3	3.7	6.2	11
8	22	26	23	15	19	21	16	4.2	3.0	4.4	7.0	10
9	22	26	25	12	20	21	15	4.2	2.8	4.2	6.4	9.3
10	23	26	27	14	22	20	12	3.8	2.7	3.7	6.7	8.7
11	23	26	26	15	23	19	11	3.2	2.5	3.7	6.7	11
12	23	26	25	16	23	18	10	3.8	2.3	3.0	6.7	12
13	23	26	24	16	23	22	10	3.7	3.2	2.7	7.0	14
14	24	26	23	16	23	21	10	4.4	2.2	2.5	9.0	11
15	24	26	22	16	23	19	9.9	4.4	1.7	2.7	9.3	11
16	24	26	22	17	24	20	11	5.0	1.3	2.5	11	10
17	24	26	22	19	24	20	11	4.4	1.1	2.7	13	10
18	24	26	21	19	23	19	10	4.0	1.74	2.8	14	9.3
19	25	26	20	20	22	18	10	3.8	1.2	3.0	12	9.6
20	25	26	19	21	23	18	12	3.8	1.7	18	11	9.9
21	25	25	18	22	24	18	11	3.8	1.6	14	11	11
22	26	25	17	23	25	19	12	4.6	1.6	8.4	11	11
23	25	25	18	24	25	21	11	3.7	1.9	5.2	9.9	13
24	24	25	19	20	25	24	11	4.4	2.2	5.6	10	13
25	24	25	20	17	25	27	9.6	3.8	3.7	9.6	11	13
26	24	25	19	18	23	29	8.7	4.0	4.8	4.6	8.0	13
27	24	25	17	19	21	25	8.4	3.8	3.8	4.0	9.6	12
28	24	23	17	21	20	22	8.2	4.4	2.8	4.4	7.0	12
29	24	23	17	21	---	20	8.7	4.4	3.0	4.6	5.6	9.6
30	24	23	17	21	---	20	7.2	5.0	3.0	4.6	5.0	9.6
31	24	---	17	21	---	20	---	3.8	---	4.4	5.4	---
TOTAL	720	767	665	563	613	658	376.7	137.8	80.04	149.9	247.5	335.6
MEAN	23.2	25.6	21.5	18.2	21.9	21.2	12.6	4.45	2.67	4.84	7.98	11.2
MAX	26	28	27	24	25	29	20	6.0	4.8	18	14	29
MIN	18	23	17	12	18	18	7.2	3.2	1.74	2.5	3.8	5.0
AC-FT	1430	1520	1320	1120	1220	1310	747	273	159	297	491	666
CAL YR 1976	TOTAL	8927.60	MEAN	24.4	MAX	68	MIN	5.8	AC-FT	17710		
WTR YR 1977	TOTAL	5313.54	MEAN	14.6	MAX	29	MIN	1.74	AC-FT	10540		

NOTE.--NO GAGE-HEIGHT RECORD NOV. 7 TO MAR. 6.

GREEN RIVER BASIN

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 current year.

WATER TEMPERATURE: January 1971 to September 1974, May 1975 to current year.

SUSPENDED-SEDIMENT DISCHARGE: March 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since May 1974. Pumping sediment sampler since March 1974.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 9,500 micromhos July 16, 1972; minimum daily, 687 micromhos Mar. 23, 1971.

WATER TEMPERATURES: Maximum, 30.0°C June 23, 24, 27, 28, 1974, July 10, 11, 1976; minimum, freezing point on many days during winter months.

SEDIMENT CONCENTRATIONS: Maximum daily, 5,150 mg/L Mar. 1, 1976; minimum daily, 14 mg/L June 27, 1977.

SEDIMENT LOADS: Maximum daily, 890 tons (808 t) Mar. 1, 1976; minimum daily, 0.12 ton (0.11 t) June 24, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Not determined.

WATER TEMPERATURES: Not determined.

SEDIMENT CONCENTRATIONS: Maximum daily, 2,600 mg/L Mar. 25; minimum daily, 14 mg/L June 27.

SEDIMENT LOADS: Maximum daily, 190 tons (172 t) Mar. 25; minimum daily, 0.12 ton (0.11 t) June 24.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT 05...	1315	23	2330	8.6	12.5	9.5	540	0	63
JAN 18...	1050	1.3	1900	8.6	3.0	10.6	550	0	73
27...	1620	.28	2060	8.4	.0	10.9	560	0	78
FEB 14...	1100	20	2100	8.2	2.0	12.7	570	0	78
MAR 16...	1115	27	1930	8.2	.5	10.7	530	0	72
APR 08...	1415	15	2400	8.1	17.5	7.2	510	0	60
MAY 05...	1400	5.8	3340	8.6	19.5	7.2	490	0	42
24...	0930	5.2	4400	8.6	10.0	--	570	0	46
JUN 23...	0930	2.3	4400	8.6	14.0	--	470	0	32
JUL 21...	0930	14	2100	8.1	18.0	6.4	360	0	27
SEP 20...	1400	9.9	3200	8.5	17.0	10.5	570	0	45

DATE	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT 05...	92	360	6.8	4.1	757	37	683	500	52
JAN 18...	88	340	6.3	3.1	890	1	730	390	40
27...	87	330	6.1	3.0	951	37	842	400	39
FEB 14...	90	330	6.0	3.3	920	0	750	410	44
MAR 16...	83	300	5.7	3.1	859	0	705	380	36
APR 08...	85	450	8.7	3.9	1110	0	910	420	60
MAY 05...	94	770	15	4.6	1740	94	1580	490	100
24...	110	880	16	5.5	1550	210	1620	570	130
JUN 23...	94	1100	22	5.0	2100	200	2060	550	170
JUL 21...	71	400	9.2	6.5	920	0	750	440	46
SEP 20...	110	560	10	4.5	1300	0	1070	560	68

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED FLUO- RIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN- GANESE (MN) (UG/L)
OCT 05...	1.2	17	1500	.13	.04	--	30	--	20
JAN 18...	1.2	17	1400	.43	.06	280	20	30	60
27...	1.2	17	1470	.59	.06	260	70	40	30
FEB 14...	1.1	17	1430	.38	.06	270	20	30	50
MAR 16...	1.1	18	1320	.70	.07	230	10	20	20
APR 08...	1.5	16	1650	.38	.09	340	40	40	30
MAY 05...	2.1	13	2470	.26	.49	510	70	70	10
24...	2.4	13	2730	.03	.15	600	40	80	30
JUN 23...	3.2	8.3	3200	.06	.03	790	80	110	30
JUL 21...	1.1	16	1470	.64	.11	390	150	30	40
SEP 20...	.3	21	2020	.53	.03	470	40	50	20

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2430	2000				---	---	---	---	4240	3900	3880
2	2430	2020				---	---	---	---	3970	3750	3950
3	2500	2000				---	---	---	---	3580	3780	3840
4	2340	1920				---	---	---	---	3580	3740	2360
5	2300	1940				---	---	---	---	3650	3670	2600
6	2400	2000				---	---	---	---	4100	3460	2870
7	2380	2020				---	---	---	---	3900	3130	2950
8	2390	1990				---	---	3650	3650	3570	3140	3050
9	2320	1950				---	2260	4200	3680	3420	3140	3160
10	2300	1930				---	2530	3680	4080	3420	3070	3160
11	2290	1870				---	2400	4320	4120	3800	3060	3200
12	2280	1870				---	2560	4080	4400	3680	3090	2890
13	2300	1860				---	2640	4130	4270	3880	3110	2860
14	2220	1820				---	2610	4060	4680	4350	2790	2990
15	2200	1760				---	2540	3930	4700	4250	2710	3110
16	2160	1780				---	2480	3870	4740	4250	2690	3130
17	2130	1700				---	2280	4010	4720	4120	2710	3130
18	2040	1670				---	2260	4010	5060	4170	2470	3190
19	2170	1650				1750	2210	3920	4970	4210	2550	3160
20	2130	1730				1680	2300	3720	4500	3530	2690	3120
21	2110	1640				1580	2490	3630	5230	2860	2530	2850
22	1990	1640				1490	2370	3400	5110	3160	2450	2770
23	1970	1600				1370	2260	3760	5420	3720	2490	2730
24	1990	1540				---	2210	3480	5530	3820	2590	2640
25	1980	1530				---	2270	3540	5500	3360	2780	2670
26	1950	1450				---	---	3500	5370	3730	2590	2740
27	1940	---				---	---	3520	5420	3910	3160	2750
28	1970	---				---	---	3410	5640	3990	3400	2780
29	2000	---				---	---	3420	4610	4180	3560	---
30	2000	---				---	---	3340	4020	4190	3550	2660
31	2010	---				---	---	4150	---	4020	3670	---
						1570	2390	3780	4760	3830	3100	3010

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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

[illegible]

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	3.0	---	16	---	13	---	2.7		6.0	---	8.0
2	---	4.0	---	20	---	16	---	5.0		5.0	---	11
3	---	5.0	---	24	---	20	---	8.0		3.8	---	16
4	---	8.0	---	29	---	16	---	2.0		2.7	---	11
5	175	11	361	29	---	13	---	.70		2.7	---	5.0
6	---	8.0	1000	70	---	11	---	.70		2.7	---	8.0
7	---	8.0	660	46	---	11	---	1.0		3.8	---	8.0
8	---	8.0	---	20	---	11	---	1.0		3.8	---	6.0
9	---	8.0	---	20	---	16	---	.30		5.0	---	6.0
10	---	11	---	20	---	24	---	.70		8.0	---	5.0
11	---	11	---	20	---	20	---	1.0		11	---	3.8
12	---	11	---	20	---	16	---	1.5		11	---	2.7
13	---	11	---	20	---	13	---	1.5		11	---	8.0
14	---	13	---	20	---	11	---	1.5		11	---	6.0
15	---	13	---	20	---	8.0	---	1.5		11	---	3.8
16	---	13	---	20	---	8.0	---	2.0		13	1640	89
17	---	13	---	20	---	8.0	---	3.8		13	1140	62
18	---	13	---	20	---	6.0	---	3.8		11	930	48
19	---	16	---	20	---	5.0	---	5.0		8.0	900	44
20	---	16	---	20	---	3.8	---	6.0		11	1200	58
21	162	11	---	16	---	2.7	---	8.0		13	1360	66
22	---	20	---	16	---	60	---	11		16	1580	81
23	---	16	---	16	---	2.7	---	13		16	1600	91
24	---	13	---	16	---	3.8	---	5.0		16	2000	130
25	---	13	---	16	---	5.0	---	2.0		16	2600	190
26	---	13	---	16	---	3.8	---	2.7		11	2080	163
27	---	13	---	16	---	2.0	---	3.8		6.0	1460	99
28	---	13	---	11	---	2.0	---	170		5.0	1230	73
29	---	13	---	11	---	2.0	---	6.0			1070	58
30	---	13	---	11	---	2.0	---	6.0			990	53
31	---	13	---	---	---	2.0	---	6.0			1060	57
TOTAL	---	355.0	---	639	---	280.6	---	122.80		253.5	---	1470.3

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

[illegible]

239

LOCATION.--Lat 39°55'59", long 108°18'59", in NE¼Sec. 30., T.1 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050007, on right bank 1.2 mi (1.9 km) upstream from mouth, 3.4 mi (5.5 km) southwest of Square S Ranch, and 28 mi (45 km) southeast of Rangely.

WATER-DISCHARGE RECORDS

EXTREMES FOR CURRENT YEAR--Maximum discharge during period August to September, 11 ft³/s (0.31 m³/s) Sept. 11, gage height, 1.55 ft (0.472 m); no flow Aug. 1 to Sept. 10, Sept. 12-30.

[illegible]

09306203 HORSE DRAW AT MOUTH, NEAR RANGELY, CO

LOCATION.--Lat 39°56'12", long 108°17'53", in SE¼NE¼ sec.29, T.1 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050007, on left bank 1,500 ft (460 m) upstream from mouth, 2.5 mi (4.0 km) southwest of Square S Ranch, and 29 mi (47 km) southeast of Rangely.

DRAINAGE AREA.--2.87 mi² (7.43 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July to September 1977.

GAGE.--Water-stage recorder. Altitude of gage is 6,110 ft (1,862 m), from topographic map.

REMARKS.--Records excellent except those for July 24, 25, Aug. 27, Sept. 11, and 12, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period July to September, 16 ft³/s (0.45 m³/s) July 24, gage height, 1.54 ft (0.469 m); no flow most of period.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										.00	.00	.00
2										.00	.00	.00
3										.00	.00	.00
4										.00	.00	.00
5										.00	.00	.00
6										.00	.00	.00
7										.00	.00	.00
8										.00	.00	.00
9										.00	.00	.00
10										.00	.00	.00
11										.00	.00	.91
12										.00	.00	.31
13										.00	.00	.00
14										.00	.00	.00
15										.00	.00	.00
16										.00	.00	.00
17										.00	.00	.00
18										.00	.00	.00
19										.00	.00	.00
20										.00	.00	.00
21										.00	.00	.00
22										.00	.00	.00
23										.00	.00	.00
24										.55	.00	.00
25										.08	.00	.00
26										.00	.00	.00
27										.00	.54	.00
28										.00	.00	.00
29										.00	.00	.00
30										.00	.00	.00
31										.00	.00	---
TOTAL										.63	.54	1.22
MEAN										.020	.017	.041
MAX										.55	.54	.91
MIN										.00	.00	.00
AC-FT										1.2	1.1	2.4

09306230 STAKE SPRINGS DRAW NEAR RANGELY, CO

LOCATION.--Lat 39°55'37", long 108°25'14", in NW¼NW¼ sec.32, T.1 S., R.98 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 0.4 mi (0.6 km) upstream from confluence with Corral Gulch and 22 mi (35 km) southeast of Rangely.

DRAINAGE AREA.--26.1 mi² (67.6 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1974 to September 1977 (discontinued).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,365 ft (1,940 m), from topographic map.

REMARKS.--Records good. Small undetermined amount of diversion for irrigation of hay meadows occurs above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 245 ft³/s (6.94 m³/s) Sept. 11, 1977, gage height, 3.33 ft (1.015 m); no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 245 ft³/s (6.94 m³/s) Sept. 11, gage height, 3.33 ft (1.015 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
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	.00	.00	.00	.00	.00	.00	11
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.1
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.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	.00	.00	.00	.00	.00	.00	12.10
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.40
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	11
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	24

CAL YR 1976 TOTAL 7.82 MEAN .021 MAX 1.5 MIN .00 AC-FT 16
WTR YR 1977 TOTAL 12.10 MEAN .033 MAX 11 MIN .00 AC-FT 24

NOTE.--NO GAGE-HEIGHT RECORD OCT. 26 TO JAN. 20, JAN. 26 TO FEB. 24.

GREEN RIVER BASIN

09306230 STAKE SPRINGS DRAW NEAR RANGELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1974 to current year.

WATER TEMPERATURE: April 1974 to current year.

SUSPENDED-SEDIMENT DISCHARGE: April 1974 to current year.

INSTRUMENTATION.--water-quality monitor since April 1974. Pumping sediment sampler since April 1974.

REMARKS.--Flow occurred only on days shown.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 539 micromhos Sept. 12, 1977; minimum, 202 micromhos Sept. 12, 1977.

WATER TEMPERATURES: Maximum, 13.5°C Sept. 12, 1977; minimum, 9.0°C Sept. 12, 1977.

SEDIMENT CONCENTRATIONS: Maximum daily, 8,360 mg/L Sept. 11, 1977; no flow many days during each year.

SEDIMENT LOADS: Maximum daily, 985 tons (894 t) Sept. 11, 1977; no flow many days during each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 539 micromhos Sept. 12; minimum, 202 micromhos Sept. 12.

WATER TEMPERATURES: Maximum, 13.5°C Sept. 12; minimum, 9.0°C Sept. 12.

SEDIMENT CONCENTRATIONS: Maximum daily, 8,360 mg/L Sept. 11; no flow many days during year.

SEDIMENT LOADS: Maximum daily, 985 tons (894 t) Sept. 11; no flow many days during year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	ALKALINITY AS CaCO3 (MG/L)
SEP 12...	1145	.01	602	190	65	1.9	120

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED AMMONIA NITROGEN (N) (MG/L)	DIS-SOLVED ORGANIC NITROGEN (N) (MG/L)	DIS-SOLVED ALUMINUM (AL) (UG/L)	DIS-SOLVED BORON (B) (UG/L)
SEP 12...	11	367	.50	.00	1.6	210	210

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

[illegible]

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 (0.2 km) downstream from water gulch and 19 mi (31 km) southeast of Rangely.

DRAINAGE AREA.--8.61 mi² (22.30 km²).

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. Altitude of gage is 6,975 ft (2,126 m), from topographic map.

REMARKS.--Records fair. No diversion above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 272 ft³/s (7.70 m³/s) July 23, 1977, gage height, 3.20 ft (0.975 m); no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 272 ft³/s (7.70 m³/s) July 23, gage height, 3.20 ft (0.975 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	.11	.00	.00	.00	.00	.14	.00	.00	.01	.00	.00
2	.20	.11	.00	.00	.00	.00	.02	.00	.00	.01	.00	.00
3	.18	.12	.00	.00	.00	.00	.00	.00	.00	.01	.00	.07
4	.16	.10	.00	.00	.00	.00	.20	.00	.00	.02	.00	.02
5	.16	.07	.00	.00	.00	.00	.18	.00	.00	.01	.00	.00
6	.16	.06	.00	.00	.00	.00	.14	.00	.00	.01	.00	.00
7	.18	.06	.00	.00	.00	.03	.08	.00	.00	.01	.00	.00
8	.18	.06	.00	.00	.00	.03	.04	.00	.00	.01	.00	.00
9	.16	.06	.00	.00	.00	.00	.02	.00	.00	.01	.00	.00
10	.16	.06	.00	.00	.00	.00	.01	.00	.00	.01	.00	.00
11	.16	.06	.00	.00	.00	.00	.00	.00	.00	.01	.00	.37
12	.16	.07	.00	.00	.00	.00	.00	.00	.00	.01	.00	.01
13	.14	.10	.00	.00	.00	.02	.00	.00	.00	.01	.00	.00
14	.16	.08	.00	.00	.00	.00	.00	.00	.00	.01	.00	.27
15	.14	.06	.00	.00	.00	.00	.00	.00	.00	.01	.00	.19
16	.14	.05	.00	.00	.00	.01	.00	.00	.00	.01	.00	.00
17	.14	.04	.00	.00	.01	.04	.00	.00	.00	.01	.00	.00
18	.10	.03	.00	.00	.03	.05	.00	.00	.00	.01	.00	.00
19	.12	.01	.34	.00	.03	.04	.00	.00	.00	.01	.00	.00
20	.14	.00	.00	.00	.03	.05	.00	.00	.00	.01	.00	.00
21	.14	.00	.00	.00	.01	.03	.00	.00	.00	.03	.00	.00
22	.14	.00	.00	.00	.00	.01	.00	.00	.00	.01	.00	.00
23	.14	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00
24	.14	.01	.00	.00	.00	.01	.00	.00	.00	.20	.00	.00
25	.14	.02	.00	.00	.00	.00	.00	.00	.00	.00	.73	.00
26	.10	.02	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00
27	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.23	.00
28	.10	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
29	.10	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.10	.00	.00	.00	---	.02	.00	.00	.01	.00	.00	.00
31	.10	---	.00	.00	---	.07	---	.00	---	.00	.30	---
TOTAL	4.42	1.36	.34	.00	.11	.43	.83	.00	.02	11.45	1.01	.93
MEAN	.14	.045	.011	.000	.004	.014	.028	.000	.001	.37	.033	.031
MAX	.20	.12	.34	.00	.03	.07	.20	.00	.01	11	.73	.37
MIN	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	8.8	2.7	.7	.00	.2	.9	1.6	.00	.04	23	2.0	1.8

CAL YK 1976 TOTAL 34.42 MEAN .094 MAX .50 MIN .00 AC-FT 68
WTR YR 1977 TOTAL 20.90 MEAN .057 MAX 11 MIN .00 AC-FT 41

NOTE.--NO GAGE-HEIGHT RECORD APR. 11 TO MAY 19.

GREEN RIVER BASIN

09306235 CORRAL GULCH BELOW WATER GULCH, NEAR KANGELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1974 to current year.

WATER TEMPERATURE: April 1974 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

INSTRUMENTATION.--water-quality monitor since April 1974. Pumping sediment sampler since October 1974.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,410 micromhos Nov. 3, 1976; minimum, not determined.

WATER TEMPERATURES: Maximum, 24.5°C several days in July 1977; minimum, freezing point many days during winter months each year.

SEDIMENT CONCENTRATIONS: Maximum daily, 16,000 mg/L, estimated Apr. 1, 1976; no flow many days during each year.

SEDIMENT LOADS: Maximum daily, 16 tons, estimated (15 t) Apr. 1, 1976; no flow many days during each year.

EXTREMES FOR CURRENT YEAR.

SPECIFIC CONDUCTANCE: Maximum, 1,410 micromhos Nov. 3; minimum, not determined.

WATER TEMPERATURES: Maximum, 24.5°C several days in July; minimum, freezing point many days during winter months.

SEDIMENT CONCENTRATIONS: Maximum daily, 1,000 mg/L, estimated Aug. 25; no flow many days during year.

SEDIMENT LOADS: Maximum daily, 10 tons, estimated (9.1 t) July 23; no flow many days during year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA+MG) (MG/L)
OCT 12...	1040	.15	1000	8.0	11.0	3	10.3	480

DATE	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
OCT 12...	90	62	99	2.0	2.0	0	290	9.3	.3

DATE	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SJS- PENDED ORGANIC CARBON (C) (MG/L)
OCT 12...	22	.83	.00	.01	.01	100	22	.1

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09306235 CURRAL GULCH BELOW WATER GULCH, NEAR KANGELY, CO--CONTINUED

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	.13	---	.04	---	---	---	---	---	---	---	---
2	---	.14	---	.04	---	---	---	---	---	---	---	---
3	---	.13	158	.05	---	---	---	---	---	---	---	---
4	---	.09	---	.03	---	---	---	---	---	---	---	---
5	12	.01	---	.02	---	---	---	---	---	---	---	---
6	---	.09	---	.01	---	---	---	---	---	---	---	---
7	---	.13	---	.01	---	---	---	---	---	---	---	---
8	---	.13	---	.01	---	---	---	---	---	---	---	---
9	---	.09	---	.01	---	---	---	---	---	---	---	---
10	---	.09	---	.01	---	---	---	---	---	---	---	---
11	---	.09	---	.01	---	---	---	---	---	---	---	---
12	24	.01	---	.02	---	---	---	---	---	---	---	---
13	---	.07	---	.03	---	---	---	---	---	---	---	---
14	---	.09	---	.02	---	---	---	---	---	---	---	---
15	---	.07	---	.01	---	---	---	---	---	---	---	---
16	---	.07	---	.01	---	---	---	---	---	---	---	.00
17	---	.07	---	.01	---	---	---	---	.00	---	---	.01
18	---	.03	---	.00	---	---	---	---	.00	---	---	.01
19	---	.05	---	.00	---	.40	---	---	.00	---	---	.01
20	---	.07	---	.00	---	---	---	---	.00	---	---	.01
21	---	.07	---	.00	---	---	---	---	.00	---	---	.00
22	134	.05	---	.00	---	---	---	---	---	---	---	.00
23	---	.07	---	.00	---	---	---	---	---	150	---	.01
24	---	.07	---	.00	---	---	---	---	---	---	---	.00
25	---	.07	---	.00	---	---	---	---	---	---	---	---
26	---	.03	---	.00	---	---	---	---	---	---	---	---
27	---	.03	---	.00	---	---	---	---	---	---	---	---
28	---	.03	---	.00	---	---	---	---	---	---	---	---
29	204	.06	---	.00	---	---	---	---	---	---	---	---
30	---	.03	---	.00	---	---	---	---	---	---	---	.00
31	---	.03	---	---	---	---	---	---	---	---	---	.02
TOTAL	---	2.19	---	0.34	---	0.40	---	---	0.00	---	---	0.07

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)	
	LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	.07			---		.00		---		---	
2	---	.00			---		.00		---		---	
3	---	.00			---		.00		---		.02	
4	---	.14			---		.00		---		.00	
5	---	.13			---		.00		---		---	
6	180	.07			---		.00		---		---	
7	---	.02			---		.00		---		---	
8	---	.01			---		.00		---		---	
9	---	.00			---		.00		---		---	
10	---	.00			---		.00		---		---	
11	---	---			---		.00		---		.49	
12	---	---			---		.00		---		.00	
13	---	---			---		.00		---		---	
14	---	---			---		.00		---		.26	
15	---	---			---		.00		---		.13	
16	---	---			---		.00		---		---	
17	---	---			---		.00		---		---	
18	---	---			---		.00		---		---	
19	---	---			---		.00		---		---	
20	---	---			---		.00		---		---	
21	---	---			---		.00		---		---	
22	---	---			---		.00		---		---	
23	---	---			---				---		---	
24	---	---			---		.14		---		---	
25	---	---			---		---		2.0		---	
26	---	---			---		---		.01		---	
27	---	---			---		---		.20		---	
28	---	---			.00		---		---		---	
29	---	---			.00		---		---		---	
30	---	---			.00		---		---		---	
31	---	---			---		---		---		---	
TOTAL	---	0.44			0.00		10.14		2.21		0.90	
TOTAL LOAD FOR YEAR:		16.69	TONS.									

09306237 DRY FORK NEAR RANGELY, CO

LOCATION.--Lat 39°55'20", long 108°31'55", in SE¼NE¼ sec.32, T.1 S., R.99 W., Rio Blanco County, Hydrologic Unit 14050007, on left bank 1.7 mi (2.7 km) upstream from mouth and 18 mi (29 km) southeast of Ranjely.

DRAINAGE AREA.--2.74 mi² (7.10 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,025 ft (2,141 m), from topographic map.

REMARKS.--Records excellent except those for days of flow, which are good. No diversion or regulation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 202 ft³/s (5.72 m³/s) July 23, 1977, gage height, 3.16 ft (0.963 m), from slope-area measurement of peak flow; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 202 ft³/s (5.72 m³/s) July 23, gage height, 3.16 ft (0.963 m), from slope-area measurement of peak flow, only peak above base of 2.0 ft³/s (0.057 m³/s); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
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	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.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	.00
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
CAL YR 1976	TOTAL 2.17	MEAN .006	MAX .60	MIN .00	AC-FT 4.3							
WTR YR 1977	TOTAL 6.05	MEAN .017	MAX 5.8	MIN .00	AC-FT 12							

09306237 DRY FORK NEAR RANDELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1974 to current year.

WATER TEMPERATURE: April 1974 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

INSTRUMENTATION.--water-quality monitor since April 1974. Pumping sediment sampler since October 1974.

REMARKS.--Flow occurred only on days shown.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,030 micromhos Sept. 3, 1977; minimum, 341 micromhos July 23, 1977.

WATER TEMPERATURES: Maximum, 22.0°C July 23, 1977; minimum, 5.0°C Aug. 26, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,030 micromhos Sept. 3; minimum, 341 micromhos July 23.

WATER TEMPERATURES: Maximum, 22.0°C July 23; minimum, 5.0°C Aug. 26.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	---	---
2										---	---	---
3										---	---	846
4										---	---	---
5										---	---	---
6										---	---	---
7										---	---	---
8										---	---	---
9										---	---	---
10										---	---	---
11										---	---	---
12										---	---	---
13										---	---	---
14										---	---	---
15										---	---	---
16										---	---	---
17										---	---	---
18										---	---	---
19										---	---	---
20										---	---	---
21										---	---	---
22										---	---	---
23										420	---	---
24										---	---	---
25										---	---	---
26										---	685	---
27										---	552	---
28										---	---	---
29										---	---	---
30										---	---	---
31										---	---	---

09306237 DRY FORK NEAR RANGELY, CO--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1							---	---	---	---	---	---
2							---	---	---	---	---	---
3							---	---	---	---	18.5	14.5
4							---	---	---	---	---	---
5							---	---	---	---	---	---
6							---	---	---	---	---	---
7							---	---	---	---	---	---
8							---	---	---	---	---	---
9							---	---	---	---	---	---
10							---	---	---	---	---	---
11							---	---	---	---	---	---
12							---	---	---	---	---	---
13							---	---	---	---	---	---
14							---	---	---	---	---	---
15							---	---	---	---	---	---
16							---	---	---	---	---	---
17							---	---	---	---	---	---
18							---	---	---	---	---	---
19							---	---	---	---	---	---
20							---	---	---	---	---	---
21							---	---	---	---	---	---
22							---	---	---	---	---	---
23							22.0	15.5	---	---	---	---
24							---	---	---	---	---	---
25							---	---	---	---	---	---
26							---	---	15.5	5.0	---	---
27							---	---	16.0	15.5	---	---
28							---	---	---	---	---	---
29							---	---	---	---	---	---
30							---	---	---	---	---	---
31							---	---	---	---	---	---

GREEN RIVER BASIN

09306240 BOXELDER 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 (9 m) upstream from unnamed tributary, 4.1 mi (6.6 km) upstream from mouth, and 20 mi (32 km) southeast of Rangely.

DRAINAGE AREA.--9.21 mi² (23.85 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,955 ft (2,120 m), from topographic map.

REMARKS.--Records good. No diversion or regulation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30 ft³/s (0.85 m³/s) Aug. 25, 1977, gage height, 2.33 ft (0.710 m); no flow most days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 30 ft³/s (0.85 m³/s) Aug. 25, gage height, 2.33 ft (0.710 m); no flow most days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
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	.00	.00	.00	.00	.00	.00	.68
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
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	.11	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.91	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.43	.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	.00
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.27	1.35	.95
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.009	.044	.032
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16	.91	.68
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.5	2.7	1.9

CAL YR 1976 TOTAL 18.14 MEAN .050 MAX .86 MIN .00 AC-FT 36
WTR YR 1977 TOTAL 2.57 MEAN .007 MAX .91 MIN .00 AC-FT 5.1

09306240 BOX ELDER GULCH NEAR RANGELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1974 to current year.

WATER TEMPERATURE: April 1974 to current year.

SUSPENDED-SEDIMENT DISCHARGE: March 1975 to current year.

INSTRUMENTATION.--water-quality monitor since April 1974. Pumping sediment sampler since March 1975.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 403 micromhos Aug. 27, 1977; minimum, 117 micromhos Sept. 15, 1977.

WATER TEMPERATURES: Not determined.

SEDIMENT CONCENTRATIONS: Maximum daily, 2,940 mg/L May 22, 1975; no flow many days each year.

SEDIMENT LOADS: Maximum daily, 21 tons (19 t) May 22, 1975; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 403 micromhos Aug. 27; minimum, 117 micromhos Sept. 15.

WATER TEMPERATURES: Not determined.

SEDIMENT CONCENTRATIONS: Maximum daily, 2,820 mg/L Aug. 25; no flow many days during year.

SEDIMENT LOADS: Maximum daily, 16 tons (15 t) Aug. 25; no flow many days during year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
AUG 25...	1000	.08	400	16.5	150	34	40	12	25	.9	3.6

DATE	BICAR- BONATE (HCO3) (MG/L)	ALKA- LINIT- AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
AUG 25...	140	110	66	4.8	.3	12	243	.12	2.3	8.0

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)
AUG 25...	4	150	1	10	19	9	.0	0	40

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

[illegible]

09306240 BOX ELDER GULCH NEAR KANGELY, CU--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1									---	---		
2									---	---		
3									---	---		
4									---	---		
5									---	---		
6									---	---		
7									---	---		
8									---	---		
9									---	---		
10									---	---		
11									---	---		
12									---	---		
13									---	---		
14									---	---		
15									---	---		
16									---	---		
17									---	---		
18									---	---		
19									---	---		
20									---	---		
21									---	---		
22									---	---		
23									---	---		
24									---	---		
25									24.0	10.5		
26									---	---		
27									23.0	7.0		
28									---	---		
29									---	---		
30									---	---		
31									---	---		

09306240 BOX ELDER GULCH NEAR KANGELY, CO--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1							---	---	---		---	---
2							---	---	---		---	---
3							---	---	---		---	---
4							---	---	---		---	---
5							---	---	---		---	---
6							---	---	---		---	---
7							---	---	---		---	---
8							---	---	---		---	---
9							---	---	---		---	---
10							---	---	---		---	---
11							---	---	---		---	0.10
12							---	---	---		---	---
13							---	---	---		---	---
14							---	---	---		---	---
15							---	---	---		---	---
16							---	---	---		---	---
17							---	---	---		---	---
18							---	---	---		---	---
19							---	---	---		---	---
20							---	---	---		---	---
21							---	---	---		---	---
22							---	---	---		---	---
23							0.05	---	---		---	---
24							0.10	---	---		---	---
25							---	2820	16		---	---
26							---	---	---		---	---
27							---	---	0.01		---	---
28							---	---	---		---	---
29							---	---	---		---	---
30							---	---	---		---	---
31							---	---	---		---	---
TOTAL							0.15	---	16.01		0.10	
TOTAL LOAD FOR YEAR:			16.26		TONS.							

259

LOCATION.--Lat 39°54'50", long 108°29'06", in SE₄SE₄ sec.34, T.1 S., R.99 W., Rio Blanco County, Hydrologic Unit 14050006, on right bank 880 ft (268 m) above mouth, 3.5 mi (5.6 km) west of "84" Ranch, and 20.5 mi (33.0 km) southwest of Rangely.

WATER-DISCHARGE RECORDS

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 5.0 ft³/s (0.14 m³/s) Sept. 11 (slope-area measurement); no flow most of time.

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	.00	.00	.00	.00	.00	.00	.41
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.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	.00	.00	.00	.00	.00	.00	.41
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.014
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.41
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.8
CAL YR 1976	TOTAL 1.20	MEAN .003	MAX .30	MIN .00	AC-FT 2.4							
WTR YR 1977	TOTAL 0.41	MEAN .001	MAX .41	MIN .00	AC-FT .8							

09306241 BOX ELDER GULCH TRIBUTARY NEAR RANGELY, CO--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)
1												---
2												---
3												---
4												---
5												---
6												---
7												---
8												---
9												---
10												---
11												1.1
12												---
13												---
14												---
15												---
16												---
17												---
18												---
19												---
20												---
21												---
22												---
23												---
24												---
25												---
26												---
27												---
28												---
29												---
30												---
31												---
TOTAL												1.1
TOTAL LOAD FOR YEAR:			1.1		TONS.							

GREEN RIVER BASIN

09306242 CORRAL GULCH NEAR RANGELY, CO

LOCATION.--Lat 39°55'13", long 108°28'20", in SE¼NW¼ sec.25, T.1 S., R.99 W., Rio Blanco County, Hydrologic Unit 1405000b, on left bank 5 ft (2 m) downstream from Boxelder Creek, 3.5 mi (5.6 km) upstream from confluence with Stake Springs Draw, and 21 mi (34 km) southeast of Rangely.

DRAINAGE AREA.--31.6 mi² (81.8 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1974 to current year.

GAGE.--Water-stage recorder. Concrete control since July 20, 1974. Altitude of gage is 6,570 ft (2,003 m), from topographic map.

REMARKS.--Records good. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 163 ft³/s (5.18 m³/s) July 23, 1977, gage height, 3.89 ft (1.186 m); minimum daily, 0.06 ft³/s (0.002 m³/s) Apr. 10-14, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 183 ft³/s (5.18 m³/s) July 23, gage height, 3.89 ft (1.186 m); minimum daily, 0.11 ft³/s (0.003 m³/s) Aug. 3-5, 7-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

JAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	.52	.36	.35	.31	.35	.23	.40	.40	.23	.14	.14
2	.27	.52	.36	.35	.31	.35	.23	.40	.40	.23	.14	.14
3	.31	.52	.36	.35	.31	.35	.23	.40	.40	.20	.11	.17
4	.31	.52	.36	.35	.31	.35	.27	.40	.40	.23	.11	.17
5	.31	.52	.36	.27	.31	.35	.27	.35	.40	.23	.11	.17
6	.31	.52	.36	.27	.31	.35	.27	.31	.40	.23	.14	.17
7	.31	.52	.36	.27	.31	.40	.27	.31	.31	.23	.11	.14
8	.27	.52	.36	.26	.31	.40	.27	.31	.31	.23	.11	.14
9	.27	.52	.36	.25	.31	.31	.31	.31	.23	.23	.11	.17
10	.31	.52	.36	.26	.27	.31	.31	.35	.27	.23	.11	.17
11	.31	.52	.35	.27	.31	.31	.31	.31	.27	.23	.11	5.9
12	.35	.52	.35	.28	.31	.31	.31	.31	.31	.20	.11	.17
13	.31	.52	.35	.31	.31	.27	.35	.31	.31	.23	.17	.17
14	.31	.52	.35	.31	.31	.35	.40	.35	.31	.27	.17	.17
15	.31	.52	.35	.27	.31	.35	.40	.35	.31	.27	.17	1.0
16	.40	.46	.31	.27	.35	.35	.35	.40	.31	.27	.20	.31
17	.40	.46	.31	.31	.35	.35	.35	.40	.27	.27	.23	.31
18	.35	.46	.31	.31	.35	.35	.35	.35	.27	.27	.20	.27
19	.35	.46	.31	.31	.35	.31	.40	.31	.27	.27	.20	.27
20	.46	.40	.31	.31	.31	.31	.40	.35	.27	.27	.20	.27
21	.46	.46	.31	.31	.40	.31	.35	.35	.27	.27	.20	.27
22	.46	.46	.31	.27	.35	.31	.35	.35	.27	.31	.20	.27
23	.46	.46	.31	.27	.35	.31	.35	.35	.23	8.0	.20	.27
24	.46	.46	.35	.27	.31	.23	.35	.35	.23	.84	.20	.27
25	.46	.46	.35	.31	.31	.23	.35	.40	.23	.35	2.7	.31
26	.52	.40	.35	.31	.31	.23	.40	.46	.23	.20	.19	.27
27	.46	.30	.35	.31	.35	.23	.40	.46	.23	.20	1.7	.31
28	.52	.32	.35	.31	.31	.23	.46	.46	.23	.20	.17	.31
29	.52	.34	.35	.31	---	.23	.40	.46	.23	.20	.14	.31
30	.52	.36	.35	.31	---	.23	.40	.40	.23	.20	.14	.31
31	.52	---	.35	.31	---	.23	---	.40	---	.17	.14	---
TOTAL	11.85	14.06	10.63	9.22	9.01	9.55	10.09	11.42	8.88	15.76	8.93	13.32
MEAN	.38	.47	.34	.30	.32	.31	.34	.37	.30	.51	.29	.44
MAX	.52	.52	.36	.35	.40	.40	.46	.46	.40	8.3	2.7	5.9
MIN	.27	.30	.31	.25	.27	.23	.23	.31	.23	.17	.11	.14
AC-FT	24	28	21	18	18	19	20	23	18	31	18	26
CAL YR 1976	TOTAL	198.64	MEAN .54	MAX 2.1	MIN .27	AC-FT 394						
WTR YR 1977	TOTAL	132.72	MEAN .36	MAX 8.0	MIN .11	AC-FT 263						

09306242 CURRAL 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 current year.

INSTRUMENTATION.--Water-quality monitor since October 1974. Pumping sediment sampler since October 1974.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 3,000 micromhos July 17, 1976; minimum, 455 micromhos Aug. 24, 1977.

WATER TEMPERATURES: Maximum, 21.5°C Aug. 24, 1977; minimum, 0.0°C on several days during winter months in 1977.

SEDIMENT CONCENTRATIONS: Maximum daily, 88,000 mg/L, estimated Sept. 11, 1977; minimum daily, 5 mg/L Jan. 13, 1977.

SEDIMENT LOADS: Maximum daily, 1,400 tons, estimated (1,300 t) Sept. 11, 1977; minimum daily, 0.00 ton (0.00 t) on many days during 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 2,410 micromhos Mar. 25; minimum, 455 micromhos Aug. 24.

WATER TEMPERATURES: Maximum, 21.5°C Aug. 24; minimum, 0.0°C on several days during winter months.

SEDIMENT CONCENTRATIONS: Maximum daily, 88,000 mg/L, estimated Sept. 11; minimum daily, 5 mg/L Jan. 13.

SEDIMENT LOADS: Maximum daily, 1,400 tons, estimated (1,300 t) Sept. 11; minimum daily, 0.00 ton (0.00 t) on many days during year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INJM- COBALT UNITS)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)
OCT 12...	1220	.52	1100	7.9	11.0	3	9.5	450	110	79
JAN 07...	1740	.58	1310	8.1	2.0	--	10.0	510	63	79
26...	1415	1.6	1150	8.1	1.0	--	12.8	450	22	66
APR 18...	1225	.35	1300	7.9	14.0	--	9.2	500	89	86
AUG 16...	1020	.21	1240	8.5	13.0	--	12.0	490	64	86

DATE	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT 12...	62	100	2.0	1.5	423	0	347	280	12
JAN 07...	77	150	2.9	3.0	550	0	450	340	14
26...	59	140	2.9	3.3	520	0	430	320	9.2
APR 18...	59	120	2.3	1.5	500	0	410	320	14
AUG 16...	67	120	2.4	1.8	520	0	430	270	18

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)
OCT 12...	.4	22	766	.16	.00	.24	.24	.08	.03
JAN 07...	.8	28	963	--	--	--	--	--	--
26...	.9	29	894	--	--	--	--	--	--
APR 18...	.4	20	878	.14	--	--	--	.01	--
AUG 16...	.4	20	840	.09	--	--	--	.04	--

GREEN RIVER BASIN

09306242 CUKRAL GULCH NEAR KANGELY, CU--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDED ORGANIC CARBON (C) (MG/L)
OCT										
12...	--	130	--	--	--	--	--	--	5.2	.3
JAN										
07...	--	--	--	--	--	--	--	--	6.8	--
26...	--	--	--	--	--	--	--	--	7.2	--
APR										
18...	5	110	2	0	1	2	.0	2	4.9	--
AUG										
16...	4	140	3	4	11	3	.0	0	5.4	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1320	---	---	1230	1220	1200	1680	1200	1320	1360	1120	---
2	1390	---	---	1210	1230	1220	1700	1210	1310	1340	1150	---
3	1360	---	---	1200	1230	1220	1500	1200	1330	1330	1150	---
4	1290	1230	---	1230	1220	1210	1650	1200	1350	1330	1150	---
5	1250	1240	---	1260	1220	1200	1670	1200	1270	1300	1190	---
6	1270	---	---	1230	1220	1190	1550	1210	1190	1290	1160	---
7	1260	---	---	1210	1220	1190	1370	1210	1210	1250	1150	---
8	1210	---	---	1200	1220	1180	1360	1200	1230	1240	1150	---
9	1210	---	---	1200	1220	1200	1330	1200	1220	1190	1150	---
10	1210	---	---	1200	1220	1210	1310	1200	1170	1170	1150	---
11	1150	---	---	1200	1210	1220	1290	1200	1150	1570	1140	1060
12	1130	---	---	1200	1210	1280	1270	1220	1120	1570	1140	1120
13	1160	---	---	1200	1190	1290	1260	1240	1090	1150	1130	1120
14	1150	---	---	1180	1180	1260	1240	1260	1060	1210	1130	954
15	1160	---	---	1180	1160	1270	1240	1240	1030	1150	1140	1120
16	1160	---	1300	1180	1150	1280	1230	1220	1020	1150	1140	1120
17	1160	---	1300	1180	1120	1280	1220	1230	1020	1140	1160	1090
18	---	---	1290	1190	1120	1290	1200	1160	1070	1150	1150	1100
19	---	---	1290	1200	1120	1240	1210	1140	1110	1150	1150	1120
20	---	1280	1280	1210	1120	1270	1210	1140	1150	1150	1140	1130
21	---	1260	1270	1210	1090	1290	1220	1130	1190	1160	1140	1150
22	---	1240	1240	1200	1080	1300	1220	1120	1220	1170	1150	1150
23	---	1260	1270	1180	1200	1390	1210	1120	1230	1090	1150	1150
24	---	1280	1270	1210	1220	1610	1200	1130	1250	---	925	1150
25	---	1290	1270	1240	1230	1740	1200	1170	1280	---	1080	1150
26	---	1290	1270	1230	1230	1950	1190	1240	1310	---	---	1160
27	---	1300	1280	1240	1210	1790	1200	1260	1320	1030	---	1150
28	---	1250	1270	1240	1200	---	1200	1270	1340	1050	---	1150
29	---	---	1240	1240	---	---	1190	1290	1360	1050	---	1160
30	---	---	1230	1220	---	---	1180	1310	1390	1060	---	1170
31	---	---	1240	1220	---	1430	---	1320	---	1110	---	---

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	16.0	6.5	---	---	---	---	8.0	6.5	8.5	6.5	10.0	6.5
2	14.5	8.5	---	---	---	---	8.0	6.0	8.5	6.0	9.0	7.0
3	15.0	8.0	---	---	---	---	8.0	6.5	9.0	6.0	9.5	6.5
4	14.5	6.0	---	---	---	---	8.5	6.0	9.0	6.0	9.0	6.0
5	13.0	5.5	---	---	---	---	7.5	5.0	9.0	6.5	9.5	6.0
6	12.5	6.0	---	---	---	---	8.0	5.0	9.5	6.5	10.0	6.0
7	13.0	5.0	---	---	---	---	8.0	5.5	9.5	6.0	10.5	6.5
8	14.5	4.5	---	---	---	---	7.5	6.0	9.5	6.5	10.5	6.5
9	15.0	4.5	---	---	---	---	8.0	5.0	9.5	6.5	9.0	7.0
10	14.5	4.5	---	---	---	---	8.0	5.5	10.0	6.0	8.0	7.0
11	13.0	5.5	---	---	---	---	8.5	5.5	9.5	6.0	9.0	6.5
12	18.0	3.5	---	---	---	---	9.0	4.0	9.5	6.0	10.0	3.0
13	18.0	.0	---	---	---	---	8.5	4.5	9.5	6.5	9.0	6.0
14	17.0	.0	---	---	---	---	8.5	4.0	9.5	6.0	8.5	6.5
15	16.0	.0	---	---	---	---	8.0	4.5	9.5	6.0	9.5	6.5
16	14.5	1.0	---	---	8.5	6.0	8.5	5.0	9.5	6.0	9.5	6.5
17	13.0	1.5	---	---	8.5	6.0	10.0	5.0	9.5	6.0	9.0	6.5
18	---	---	---	---	8.5	6.0	9.5	5.5	9.0	5.0	8.5	5.5
19	---	---	---	---	8.0	6.0	9.5	5.5	9.5	5.5	10.0	7.0
20	---	---	6.0	4.0	8.0	5.5	9.0	5.0	9.0	5.0	12.0	8.0
21	---	---	5.5	3.5	8.0	5.5	9.0	5.5	8.5	5.0	14.0	9.5
22	---	---	6.0	3.0	8.0	6.0	7.5	6.5	7.5	5.0	16.5	11.0
23	---	---	6.5	4.0	7.5	6.0	7.5	1.0	7.5	5.0	17.0	6.5
24	---	---	8.0	3.5	8.0	5.5	8.0	.0	8.5	6.5	15.0	3.0
25	---	---	6.5	4.0	8.0	5.5	8.0	5.5	8.0	6.0	9.5	.5
26	---	---	5.0	3.5	8.5	6.0	8.0	5.5	8.0	6.0	11.5	.5
27	---	---	5.0	2.5	8.0	5.5	8.0	5.5	9.5	6.0	14.0	.5
28	---	---	3.0	3.0	8.0	5.5	8.5	5.5	10.0	6.0	---	---
29	---	---	---	---	8.0	5.5	8.5	5.5	---	---	---	---
30	---	---	---	---	8.0	6.0	8.5	5.0	---	---	---	---
31	---	---	---	---	8.0	6.0	9.0	5.5	---	---	7.5	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.5	.5	13.0	8.5	14.5	7.5	18.0	8.0	17.5	9.0	---	---
2	5.0	.5	13.5	7.5	15.5	8.5	18.0	9.0	17.5	9.0	---	---
3	7.5	1.5	12.5	8.0	16.0	8.5	18.0	8.5	17.5	9.5	---	---
4	11.5	1.5	13.5	7.5	16.0	8.5	16.0	9.5	16.0	9.5	---	---
5	11.5	3.0	13.5	7.5	16.0	9.0	18.0	8.5	17.5	10.5	---	---
6	13.5	1.5	13.5	7.5	16.5	9.5	18.0	8.5	17.5	10.0	---	---
7	14.0	4.0	13.5	7.5	16.0	9.5	18.0	8.5	17.5	10.0	---	---
8	14.0	3.0	13.5	7.5	15.0	9.5	17.5	8.0	16.0	10.0	---	---
9	14.0	3.5	13.5	7.5	16.5	10.0	18.5	9.0	16.5	9.5	---	---
10	13.5	4.0	13.5	7.5	16.0	9.5	18.5	5.5	17.0	9.5	---	---
11	12.0	5.0	13.5	7.5	16.0	8.5	7.0	4.5	16.5	9.5	19.0	9.5
12	10.0	5.5	13.5	7.5	16.0	8.0	10.0	3.5	17.0	9.5	19.0	8.0
13	12.0	4.5	13.5	8.0	16.5	8.0	18.0	9.0	16.5	10.0	18.5	8.0
14	12.5	7.5	11.5	8.5	17.0	8.0	17.5	9.0	17.0	9.5	18.5	9.0
15	14.5	7.5	13.5	7.5	17.0	7.5	19.5	9.5	15.5	10.5	17.5	8.0
16	14.0	8.0	13.5	7.5	16.0	7.5	19.0	10.0	13.5	10.5	16.0	8.0
17	15.0	7.5	12.0	8.0	17.0	8.0	17.5	10.0	17.0	10.5	17.5	7.0
18	14.5	8.0	12.5	7.0	17.5	8.0	19.0	10.5	16.0	10.0	15.5	7.5
19	9.0	8.0	12.0	6.5	18.0	8.5	19.0	11.5	17.0	10.0	17.5	8.0
20	13.5	7.5	11.5	7.0	18.0	8.0	19.0	10.5	16.5	9.5	16.5	8.5
21	14.0	7.5	13.0	7.0	17.5	9.0	15.0	11.0	16.5	9.5	15.5	8.0
22	14.0	7.5	13.5	7.0	13.0	9.0	16.5	11.0	16.5	10.0	15.5	7.5
23	14.5	7.5	12.0	7.5	20.0	9.0	---	---	16.0	10.5	15.0	7.0
24	14.0	8.0	12.0	7.5	19.5	9.0	---	---	21.5	10.5	16.0	7.5
25	14.0	7.5	13.5	7.5	18.5	9.5	---	---	20.0	10.5	15.5	8.5
26	13.5	8.0	14.0	7.5	19.5	10.0	---	---	---	---	16.5	7.5
27	13.5	7.5	13.5	7.5	18.0	9.5	17.5	10.5	---	---	17.0	8.5
28	12.5	8.5	13.0	7.5	18.5	9.0	18.0	9.5	---	---	15.0	9.0
29	13.5	8.0	14.5	7.0	18.5	8.5	17.0	9.5	---	---	14.5	7.5
30	13.5	8.0	15.0	7.5	18.0	8.0	17.0	9.5	---	---	15.0	7.0
31	---	---	15.0	7.0	---	---	17.0	9.0	---	---	---	---

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	28	.02	8	.01	---	.04	20	.02	54	.05	24	.02
2	17	.01	12	.02	---	.04	20	.02	30	.03	24	.02
3	17	.01	36	.05	---	.04	27	.03	18	.02	22	.02
4	19	.02	48	.07	---	.04	35	.03	13	.01	23	.02
5	15	.01	74	.10	---	.04	38	.03	19	.02	48	.05
6	18	.02	93	.13	---	.04	16	.01	30	.03	32	.03
7	18	.02	118	.17	---	.04	7	.01	24	.02	28	.03
8	20	.01	94	.13	---	.04	9	.01	32	.03	32	.03
9	13	.01	20	.03	---	.03	8	.01	18	.02	22	.02
10	13	.01	17	.02	---	.03	7	.00	24	.02	33	.03
11	17	.01	11	.02	---	.03	6	.00	53	.04	47	.04
12	22	.02	8	.01	---	.03	6	.00	51	.04	68	.06
13	22	.02	16	.02	---	.03	5	.00	43	.04	34	.02
14	23	.02	13	.02	---	.03	9	.01	22	.02	16	.02
15	23	.02	16	.02	---	.03	7	.01	28	.02	40	.04
16	22	.02	21	.03	26	.02	6	.00	37	.03	28	.03
17	17	.02	17	.02	53	.04	15	.01	53	.05	12	.01
18	28	.03	16	.02	55	.05	44	.04	23	.02	17	.02
19	33	.03	31	.04	38	.03	115	.10	36	.03	26	.02
20	43	.05	17	.02	45	.04	45	.04	44	.04	27	.02
21	47	.06	25	.03	69	.06	24	.02	35	.04	22	.02
22	34	.04	27	.03	33	.03	32	.02	19	.02	57	.05
23	78	.10	38	.05	23	.02	36	.03	15	.01	82	.07
24	95	.12	57	.07	24	.02	40	.03	38	.03	109	.07
25	50	.06	62	.08	27	.03	58	.05	38	.03	63	.04
26	17	.02	102	.11	18	.02	78	.07	32	.03	57	.04
27	15	.02	114	.09	23	.02	196	.16	40	.04	52	.03
28	13	.02	---	.10	21	.02	60	.05	38	.03	57	.04
29	12	.02	---	.10	17	.02	43	.04	---	---	39	.02
30	8	.01	---	.10	9	.01	45	.04	---	---	35	.02
31	8	.01	---	---	13	.01	50	.04	---	---	22	.01
TOTAL	---	0.86	---	1.71	---	0.97	---	0.93	---	0.81	---	0.96

09306242 CORRAL GULCH NEAR RANGELY, CU--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16	.01	123	.13	33	.04	45	.03	47	.02	---	.00
2	10	.01	80	.09	36	.04	53	.03	34	.01	---	.00
3	8	.00	50	.05	79	.09	47	.03	31	.01	---	.00
4	13	.01	40	.04	43	.05	37	.02	41	.01	---	.00
5	22	.02	37	.03	46	.05	32	.02	27	.01	---	.00
6	17	.01	49	.04	31	.03	35	.02	21	.01	---	.00
7	20	.01	42	.04	26	.02	40	.02	38	.01	---	.00
8	18	.01	22	.02	36	.03	38	.02	50	.01	---	.00
9	14	.01	25	.02	33	.03	27	.02	33	.01	---	.00
10	15	.01	25	.02	22	.02	27	.02	47	.01	---	.00
11	36	.03	20	.02	30	.02	27	.02	114	.03	---	1400
12	26	.02	17	.01	137	.11	22	.01	60	.02	---	.00
13	23	.02	43	.04	82	.07	41	.03	31	.01	---	.00
14	36	.04	82	.08	56	.05	30	.02	87	.04	---	.00
15	18	.02	56	.05	23	.02	18	.01	54	.02	---	40
16	24	.02	38	.04	24	.02	21	.02	27	.01	20	.02
17	27	.03	23	.02	41	.03	23	.02	52	.03	---	.02
18	18	.02	24	.02	53	.04	17	.01	34	.02	---	.01
19	10	.01	27	.02	114	.08	14	.01	46	.02	---	.01
20	12	.01	22	.02	104	.08	---	.01	45	.02	13	.01
21	15	.01	13	.01	46	.03	---	.01	63	.03	16	.01
22	13	.01	12	.01	26	.02	---	.02	72	.04	---	.01
23	12	.01	13	.01	28	.02	---	230	78	.04	---	.01
24	14	.01	17	.02	41	.03	---	25	63	.03	---	.01
25	11	.01	15	.02	53	.03	---	2.0	1750	13	---	.01
26	15	.02	27	.03	33	.02	---	.03	150	.08	---	.01
27	42	.05	14	.02	21	.01	36	.02	900	4.1	16	.01
28	34	.04	19	.02	13	.01	15	.01	50	.02	47	.04
29	52	.06	20	.02	53	.03	16	.01	---	.00	---	.01
30	76	.08	18	.02	74	.05	21	.01	---	.00	---	.01
31	---	---	31	.03	---	---	47	.02	---	.00	---	---
TOTAL	---	0.62	---	1.01	---	1.17	---	257.52	---	17.67	---	1440.20

GREEN RIVER BASIN

09306244 CURRAL GULCH AT 84 RANCH, CO

LOCATION.--Lat 39°56'04", long 108°25'38", in NE¼Sec.30, T.1 S., R.98 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 0.5 mi (0.8 km) upstream from Stake Springs Draw, 2.6 mi (4.2 km) downstream from Boxelder Creek, and 26 mi (34 km) southeast of Rangely.

DRAINAGE AREA.--37.8 mi² (97.9 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to September 1977 (discontinued).

GAGE.--water-stage recorder. Altitude of gage is 6,370 ft (1,942 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Lathan ditch, which irrigates about 60 acres (242,800 m²) of meadow near gage, diverts water about 600 ft (180 m) upstream from gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60 ft³/s (1.70 m³/s) Sept. 11, 1977, gage height, 2.66 ft (0.811 m), from slope-area measurement of peak flow; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 60 ft³/s (1.70 m³/s) Sept. 11, gage height, 2.66 ft (0.811 m), from slope-area measurement of peak flow; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.03	.03	.03	.02	.09	.08	.06	.01	.00	.00	.00
2	.01	.03	.03	.03	.02	.08	.08	.05	.01	.00	.00	.00
3	.01	.03	.03	.03	.02	.08	.08	.05	.01	.00	.00	.00
4	.01	.03	.03	.03	.02	.08	.08	.05	.01	.00	.00	.00
5	.02	.03	.03	.03	.02	.07	.08	.05	.01	.00	.01	.00
6	.02	.03	.03	.03	.02	.07	.08	.05	.01	.00	.01	.00
7	.02	.03	.03	.03	.02	.06	.09	.04	.01	.00	.00	.00
8	.02	.03	.03	.03	.02	.06	.09	.04	.01	.00	.00	.00
9	.02	.03	.03	.03	.02	.05	.08	.04	.01	.00	.00	.00
10	.02	.03	.03	.03	.02	.05	.08	.04	.00	.00	.00	.00
11	.02	.03	.03	.03	.03	.05	.08	.03	.00	.00	.00	8.8
12	.02	.03	.03	.03	.03	.05	.09	.03	.00	.00	.01	9.0
13	.02	.03	.03	.03	.03	.05	.08	.03	.00	.00	.01	.07
14	.02	.03	.03	.03	.03	.05	.08	.04	.00	.00	.02	.08
15	.02	.03	.03	.03	.04	.05	.08	.04	.00	.00	.01	.53
16	.02	.03	.04	.02	.04	.04	.08	.04	.00	.00	.01	.08
17	.02	.03	.04	.02	.05	.03	.07	.04	.00	.00	.01	.08
18	.02	.03	.04	.02	.05	.03	.07	.04	.00	.00	.01	.03
19	.02	.03	.04	.02	.06	.03	.07	.04	.00	.00	.00	.08
20	.02	.03	.04	.02	.06	.04	.07	.04	.00	.00	.00	.05
21	.02	.03	.03	.02	.07	.04	.06	.04	.00	.00	.00	.06
22	.02	.03	.03	.02	.07	.05	.06	.04	.00	.00	.00	.05
23	.02	.03	.03	.02	.08	.06	.06	.04	.00	.00	.00	.08
24	.02	.03	.03	.02	.09	.07	.06	.04	.00	3.2	.00	.08
25	.02	.03	.03	.02	.09	.07	.05	.03	.00	.02	.00	.05
26	.02	.03	.03	.02	.07	.07	.05	.04	.00	.01	.00	.13
27	.02	.03	.03	.02	.07	.07	.06	.04	.00	.01	.04	.13
28	.02	.03	.03	.02	.07	.07	.07	.04	.00	.01	.01	.07
29	.03	.03	.03	.02	---	.07	.07	.04	.00	.03	.01	.07
30	.03	.03	.03	.02	---	.07	.06	.03	.00	.02	.00	.04
31	.03	---	.03	.02	---	.08	---	.02	---	.01	.00	---
TOTAL	.61	.90	.98	.77	1.23	1.83	2.19	1.24	.09	3.31	.16	19.56
MEAN	.020	.030	.032	.025	.044	.059	.073	.040	.003	.11	.005	.65
MAX	.03	.03	.04	.03	.09	.09	.09	.06	.01	3.2	.04	9.0
MIN	.01	.03	.03	.02	.02	.03	.05	.02	.00	.00	.00	.00
AC-FT	1.2	1.8	1.9	1.5	2.4	3.6	4.3	2.5	.2	6.6	.3	39

CAL YR 1976 TOTAL 36.17 MEAN .099 MAX 1.3 MIN .00 AC-FT 72
WTR YR 1977 TOTAL 32.87 MEAN .090 MAX 9.0 MIN .00 AC-FT 65

NOTE.--NO GAGE-HEIGHT RECORD OCT. 1 TO NOV. 15, DEC. 19 TO FEB. 23.

09306244 CORRAL GULCH AT 84 RANCH, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to current year.

WATER TEMPERATURE: October 1975 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1975 to current year.

INSTRUMENTATION.--water-quality monitor since October 1975. Pumping sediment sampler since October 1975.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 2,680 micromhos Nov. 6, 1975; minimum, 188 micromhos Mar. 1, 1976.

WATER TEMPERATURES: Maximum, 31.0°C May 19, 1976; minimum, freezing point on many days during January to March 1976.

SEDIMENT CONCENTRATIONS: Maximum daily, 53,000 mg/L, estimated Sept. 12, 1977; no flow many days during each year.

SEDIMENT LOADS: Maximum daily, 1,300 tons, estimated (1,200 t) Sept. 12, 1977; no flow many days during each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 2,130 micromhos May 29; minimum, 453 micromhos Sept. 12.

WATER TEMPERATURES: Not determined.

SEDIMENT CONCENTRATIONS: Maximum daily, 53,000 mg/L, estimated Sept. 12; no flow many days during year.

SEDIMENT LOADS: Maximum daily, 1,300 tons, estimated (1,200 t) Sept. 12; no flow many days during year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)
OCT 13...	1005	.02	1850	8.4	7.5	4	12.7	--	730	300	110
FEB 23...	1450	.08	1800	8.6	8.5	12	8.5	--	700	180	100
MAR 17...	1400	.05	1520	8.3	6.0	25	12.3	--	650	170	99
APR 19...	1025	.07	1780	8.2	7.0	6	12.0	22	710	200	100

DATE	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOL- VED SUL- FIDE (S) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	BROMIDE (BR) (MG/L)
OCT 13...	110	190	3.1	2.3	518	0	425	--	580	20	--
FEB 23...	110	180	3.0	3.0	633	0	519	--	560	18	--
MAR 17...	98	170	2.9	2.8	588	0	480	--	480	15	--
APR 19...	110	180	3.0	2.3	620	0	510	.5	550	21	.0

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO, PHOS- PHORUS (P) (MG/L)
OCT 13...	.3	22	1290	.07	--	.02	.01	.28	.29	.01	.02
FEB 23...	.3	19	1300	.28	--	.21	.05	.41	.46	.02	.03
MAR 17...	.4	16	1170	.16	--	.09	.01	.73	.74	.06	.05
APR 19...	.4	17	1290	.24	1400	.24	.04	.37	.41	.02	.04

GREEN RIVER BASIN

09306244 CORKAL GULCH AT 84 RANCH, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED ARSENIC (AS) (JG/L)	DIS- SOLVED BORON (B) (JG/L)	DIS- SOLVED CAD- MIUM (CJ) (JG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (JG/L)	DIS- SOLVED LEAD (PB) (JG/L)	DIS- SOLVED LITHIUM (LI) (JG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
OCT 13...	--	--	200	--	--	--	--	--	--	--
FEB 23...	--	--	180	--	--	--	--	--	--	--
MAR 17...	--	--	170	--	--	--	--	--	--	--
APR 19...	20	2	150	1	0	1	100	3	10	100

DATE	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED MOLYB- DENUM (MO) (JG/L)	DIS- SOLVED SELE- NIUM (SE) (JG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED ZINC (ZN) (JG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (JG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)
OCT 13...	--	--	--	--	--	--	--	--	--
FEB 23...	--	--	--	--	--	--	--	--	--
MAR 17...	--	--	--	--	--	--	--	--	--
APR 19...	.0	40	2	2700	20	<14	<.4	8.7	<.4

DATE	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED NATURAL URANIUM (U) (UG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDED ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)
OCT 13...	--	--	--	--	6.7	.1	--	--	--
FEB 23...	--	--	--	--	9.9	1.0	--	--	--
MAR 17...	--	--	--	--	8.8	.7	--	--	--
APR 19...	7.1	<.4	.11	5.6	13	.8	.00	0	0

09306244 CURRAL GULCH AT 84 RANCH, CU--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---						---	1710	1800	---	---	---
2	---						---	1700	1790	---	---	---
3	---						---	1690	1770	---	---	---
4	---						---	1720	1770	---	---	---
5	---						---	1700	1780	---	---	---
6	1400						1540	1730	1760	---	---	---
7	1460						1700	1770	1750	---	---	---
8	1550						1700	1750	1720	---	---	---
9	1610						1710	1740	1730	---	---	---
10	1660						1720	1760	---	---	---	---
11	1720						1720	1730	---	---	---	---
12	1770						1710	1730	---	---	---	747
13	1830						1700	1760	---	---	---	1050
14	1820						1720	1780	---	---	---	---
15	1830						1710	1800	---	---	---	---
16	1830						1720	1800	---	---	---	---
17	1840						1720	1770	---	---	---	---
18	---						1730	1590	---	---	---	---
19	---						1710	1640	---	---	---	---
20	---						1710	1700	---	---	---	---
21	---						1720	1710	---	---	---	---
22	---						1720	1700	---	---	---	---
23	---						1720	1660	---	---	---	---
24	---						1720	1630	---	1180	---	---
25	---						1720	1610	---	1220	---	---
26	---						1710	1700	---	1090	---	---
27	---						1700	1810	---	---	1110	---
28	---						1700	1970	---	---	---	---
29	---						1720	1900	---	1140	---	---
30	---						1740	1760	---	---	---	---
31	---						---	1790	---	---	---	---

09306244 CURRAL GULCH AT O+ RANCH, CU--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)
OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	10	.00	22	.00	---	.00	---	.00	---	.00	---	.01
2	6	.00	16	.00	---	.00	---	.00	---	.00	---	.01
3	4	.00	12	.00	---	.00	---	.00	---	.00	---	.01
4	4	.00	12	.00	---	.00	---	.00	---	.00	---	.01
5	4	.00	18	.00	---	.00	---	.00	---	.00	---	.01
6	1	.00	24	.00	---	.00	---	.00	---	.00	---	.01
7	2	.00	27	.00	---	.00	---	.00	---	.00	---	.01
8	5	.00	15	.00	---	.00	---	.00	65	.00	---	.01
9	7	.00	9	.00	---	.00	---	.00	---	.00	---	.01
10	14	.00	14	.00	---	.00	---	.00	---	.00	---	.01
11	9	.00	29	.00	---	.00	---	.00	---	.00	21	.00
12	20	.00	25	.00	---	.00	---	.00	---	.00	24	.00
13	18	.00	28	.00	---	.00	---	.00	---	.00	23	.00
14	28	.00	---	.00	---	.00	---	.00	---	.00	22	.00
15	31	.00	---	.00	---	.00	---	.00	---	.00	11	.00
16	25	.00	---	.00	15	.00	---	.00	---	.00	10	.00
17	14	.00	---	.00	41	.00	---	.00	---	.01	13	.00
18	21	.00	---	.00	---	.00	---	.00	---	.01	---	.00
19	28	.00	---	.00	---	.00	---	.00	---	.01	---	.00
20	21	.00	---	.00	---	.00	---	.00	---	.01	---	.00
21	14	.00	---	.00	---	.00	---	.00	---	.01	---	.00
22	20	.00	---	.00	---	.00	---	.00	---	.01	---	.01
23	25	.00	15	.00	---	.00	---	.00	63	.01	---	.01
24	18	.00	33	.00	---	.00	48	.00	---	.01	---	.01
25	25	.00	---	.00	---	.00	---	.00	---	.01	---	.01
26	17	.00	---	.00	---	.00	---	.00	---	.01	---	.01
27	13	.00	---	.00	---	.00	---	.00	---	.01	---	.01
28	14	.00	---	.00	---	.00	---	.00	---	.01	---	.01
29	10	.00	---	.00	---	.00	---	.00	---	---	---	.01
30	19	.00	---	.00	---	.00	---	.00	---	---	---	.01
31	16	.00	---	---	---	.00	---	.00	---	---	---	.01
TOTAL	---	0.00	---	0.00	---	0.00	---	0.00	---	0.12	---	0.20

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCENTRATION (MG/L)		MEAN CONCENTRATION (MG/L)		MEAN CONCENTRATION (MG/L)		MEAN CONCENTRATION (MG/L)		MEAN CONCENTRATION (MG/L)		MEAN CONCENTRATION (MG/L)	
	LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	.00	---	.01	89	.00	---	---	---	---	---	---
2	---	.00	---	.00	89	.00	---	---	---	---	---	---
3	---	.00	---	.00	86	.00	---	---	---	---	---	---
4	---	.00	---	.00	84	.00	---	---	---	---	---	---
5	---	.00	---	.00	82	.00	---	---	---	.00	---	---
6	16	.00	18	.00	80	.00	---	---	726	.02	---	---
7	---	.00	12	.00	78	.00	---	---	---	---	---	---
8	---	.00	12	.00	50	.00	---	---	---	---	---	---
9	---	.00	12	.00	27	.00	---	---	---	---	---	---
10	---	.00	20	.00	---	---	---	---	---	---	---	---
11	---	.00	16	.00	---	---	---	---	---	---	1200	---
12	---	.00	14	.00	---	---	---	---	---	.02	1300	---
13	12	.00	6	.00	---	---	---	---	---	.02	---	.05
14	6	.00	14	.00	---	---	---	---	---	.03	---	.05
15	12	.00	16	.00	---	---	---	---	---	.02	---	1.8
16	12	.00	3	.00	---	---	---	---	---	.02	---	.05
17	16	.00	21	.00	---	---	---	---	---	.02	---	.05
18	37	.01	10	.00	---	---	---	---	---	.02	---	.03
19	8	.00	11	.00	---	---	---	---	---	---	---	.05
20	22	.00	12	.00	---	---	---	---	---	---	---	.04
21	40	.01	14	.00	---	---	---	---	---	---	---	.04
22	27	.00	16	.00	---	---	---	---	---	---	---	.04
23	32	.01	18	.00	---	---	---	---	---	---	---	.05
24	31	.01	16	.00	---	---	10100	298	---	---	---	.05
25	36	.00	15	.00	---	---	---	.03	---	---	---	.04
26	36	.00	19	.00	---	---	---	.02	---	---	---	.07
27	41	.01	23	.00	---	---	---	.02	---	.04	---	.07
28	46	.01	28	.00	---	---	---	.02	---	.02	---	.05
29	50	.01	87	.01	---	---	381	.03	---	.02	---	.05
30	---	.01	143	.01	---	---	---	.03	---	---	---	.04
31	---	---	109	.01	---	---	---	.02	---	---	---	---
TOTAL	---	0.08	---	0.04	---	0.00	---	298.17	---	0.25	---	2502.62
TOTAL LOAD FOR YEAR:		2801.48 TONS.										

09306246 YELLOW CREEK TRIBUTARY NEAR 84 RANCH, CO

LOCATION.--Lat 39°58'02", Long 108°23'15", in SE¼NE¼ sec.16, T.15 S., R.98 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 500 ft (152 m) upstream from Yellow Creek and about 20 mi (32 km) southeast of Rangely.

DRAINAGE AREA.--5.53 mi² (14.3 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to September 1977 (discontinued).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,235 ft (1,900 m), from topographic map.

REMARKS.--Records good. No regulation or diversions.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20 ft³/s (0.57 m³/s) Mar. 1, 1976, gage height, 1.66 ft (0.506 m); no flow most days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 0.70 ft³/s (0.020 m³/s) July 24, gage height, 1.12 ft (0.341 m); no flow most days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
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	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.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	.17	.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	.00	.00	.00	.00	.17	.00	.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.005	.000	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.17	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.3	.00	.00

CAL YR 1976 TOTAL 22.20 MEAN .061 MAX 3.2 MIN .00 AC-FT 44
WTR YR 1977 TOTAL 0.17 MEAN .000 MAX .17 MIN .00 AC-FT .3

NOTE.--NO GAGE-HEIGHT RECORD DEC. 28 TO FEB. 8.

LOCATION---Lat 39°58'55", long 108°27'10", in SW¼NW¼ sec.12, T.1 S., R.99 W., in Rio Blanco County, Hydrologic Unit 14050006, on left bank 0.2 mi (0.3 km) downstream from confluence of Little Duck and Big Duck Creeks, 4.2 mi (6.8 km) upstream from Yellow Creek, and about 18 mi (29 km) southeast of Rangely.

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	.30	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.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	.00	.00	.00	.00	.00	.30	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.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	.30	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.1	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.5	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.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	.40	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.30	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.30	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.60	.40	.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.084	.013	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.5	.40	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.2	.8	.00
CAL YR 1976	TOTAL	3.70	MEAN .010	MAX 1.5	MIN .00	AC-FT 7.3						
WTR YR 1977	TOTAL	3.00	MEAN .008	MAX 1.5	MIN .00	AC-FT 6.0						

GREEN RIVER BASIN

09306250 DUCK CREEK NEAR 84 RANCH, CO

LOCATION.--Lat 39°58'49", long 108°24'27", in SE¼NW¼ sec.8, T-1 S., R-98 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 2 mi (3.2 km) upstream from Yellow Creek, 2.5 mi (4.0 km) downstream from confluence of Big Duck and Little Duck Creeks, and about 20 mi (32 km) southeast of Rangely.

DRAINAGE AREA.--50.0 mi² (130 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to September 1977 (discontinued).

GAGE.--Water-stage recorder with concrete control. Altitude of gage is 6,260 ft (1,908 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1.2 ft³/s (0.34 m³/s) Feb. 28, 1976, gage height, 1.57 ft (0.509 m); no flow most days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.58 ft³/s (0.016 m³/s) July 24, gage height, 1.10 ft (0.335 m); no flow except for July 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
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	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.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	.08	.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	.00	.00	.00	.00	.08	.00	.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.003	.000	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.2	.00	.00
CAL YR 1976	TOTAL	12.03	MEAN	.033	MAX	3.9	MIN	.00	AC-FT	24		
WTR YR 1977	TOTAL	0.08	MEAN	.000	MAX	.08	MIN	.00	AC-FT	.2		

GREEN RIVER BASIN

277

09306250 DUCK CREEK NEAR B4 RANCH, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: October 1975 to current year.

INSTRUMENTATION.--water-quality monitor since October 1975. Pumping sediment sampler since October 1975.

REMARKS.--Flow occurred only on days shown.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,260 micromhos July 24, 1977; minimum, 818 micromhos July 24, 1977.

WATER TEMPERATURES: Maximum, 23.0°C July 24, 1977; minimum, 13.0°C July 24, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,260 micromhos July 24; minimum, 818 micromhos July 24.

WATER TEMPERATURES: Maximum, 23.0°C July 24; minimum, 13.0°C July 24.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1							---	---				
2							---	---				
3							---	---				
4							---	---				
5							---	---				
6							---	---				
7							---	---				
8							---	---				
9							---	---				
10							---	---				
11							---	---				
12							---	---				
13							---	---				
14							---	---				
15							---	---				
16							---	---				
17							---	---				
18							---	---				
19							---	---				
20							---	---				
21							---	---				
22							---	---				
23							---	---				
24							23.0	13.0				
25							---	---				
26							---	---				
27							---	---				
28							---	---				
29							---	---				
30							---	---				
31							---	---				

GREEN RIVER BASIN

09306255 YELLOW CREEK NEAR WHITE RIVER, CO

LOCATION--Lat 40°10'07", long 108°24'02", in NE¼SW¼ sec.4, T.2 N., R.98 W., Rio Blanco County, Hydrologic Unit 14050306, on left bank 160 ft (49 m) downstream from bridge on State Highway 64, 0.3 mi (0.5 km) upstream from mouth, and 10 mi (16 km) northwest of White River City.

DRAINAGE AREA--262 mi² (679 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD--October 1972 to current year.

GAGE--Water-stage recorder. Concrete control since Sept. 18, 1974. Altitude of gage is 5,535 ft (1,687 m), from topographic map.

REMARKS--Records good except those for winter period, which are fair. Diversions for irrigation of about 300 acres (1.21 km²) above station.

AVERAGE DISCHARGE--5 years, 1.66 ft³/s (0.0470 m³/s), 1,200 acre-ft/yr (1.48 hm³/yr).

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 756 ft³/s (21.4 m³/s) July 24, 1977, gage height, 8.32 ft (2.536 m), from slope-area measurement of peak flow; minimum daily, 0.02 ft³/s (0.001 m³/s) Feb. 8, 1973.

EXTREMES OUTSIDE PERIOD OF RECORD--Flood of July 25, 1965, reached a discharge of 1,050 ft³/s (29.7 m³/s) by slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR--Maximum discharge, 756 ft³/s (21.4 m³/s) July 24, gage height, 8.32 ft (2.536 m), from slope-area measurement of peak flow, only peak above base of 100 ft³/s (2.8 m³/s); minimum daily, 0.37 ft³/s (0.010 m³/s) Jan. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.8	.64	.70	1.0	1.8	2.2	1.6	.88	.48	.91	.97
2	1.4	2.0	.70	.54	1.0	1.8	2.2	1.6	.85	.48	.85	.91
3	1.4	1.8	.80	.44	1.0	1.8	2.2	1.6	.79	.50	.85	.91
4	1.4	1.8	.82	.37	1.1	1.7	2.2	1.4	.73	.52	.82	.91
5	1.4	1.9	.86	.38	1.1	1.6	2.3	1.4	.66	.56	.85	.85
6	1.4	1.8	.90	.39	1.2	1.7	2.4	1.3	.68	.50	.82	.85
7	1.4	1.8	1.0	.41	1.2	1.8	2.4	1.2	.68	.48	.79	.85
8	1.3	1.8	1.0	.43	1.2	2.0	2.4	1.2	1.3	.46	.73	.82
9	1.4	1.9	1.1	.44	1.2	1.9	2.4	1.2	1.2	.46	.70	.82
10	1.4	1.8	1.1	.45	1.2	1.8	2.4	1.2	.73	.46	.70	.82
11	1.4	1.7	1.1	.47	1.3	1.8	2.3	1.2	.68	.44	.68	.97
12	1.4	1.7	1.1	.48	1.4	1.9	2.3	1.2	.66	.42	.68	1.0
13	1.5	1.7	1.1	.50	1.6	2.1	2.3	1.2	.64	.44	.66	.97
14	1.5	1.7	1.1	.52	1.6	2.0	2.2	1.4	.60	.46	.64	.91
15	1.5	1.7	1.1	.54	1.6	1.9	2.1	1.4	.60	.44	.56	1.0
16	1.5	1.8	1.1	.56	1.7	2.0	2.1	1.4	.62	.44	.68	.91
17	1.5	2.0	1.1	.58	1.8	2.1	2.0	1.3	.60	.44	1.2	.88
18	1.5	2.2	1.1	.60	1.8	2.1	2.0	1.2	.58	.46	1.7	.82
19	1.6	2.1	1.1	.62	1.8	2.0	2.1	1.2	.58	.46	.97	.85
20	1.5	1.7	1.1	.64	1.7	2.1	1.9	1.2	.58	.46	.88	.85
21	1.4	1.8	1.1	.66	1.8	2.1	1.8	1.2	.60	.46	.85	.85
22	1.4	2.1	1.1	.68	2.1	2.2	1.8	1.2	.58	.50	.85	.88
23	1.6	2.0	1.1	.70	1.8	2.4	1.7	1.1	.54	3.8	.79	.88
24	1.6	2.1	1.1	.73	1.9	2.6	1.7	1.0	.66	13	.88	.88
25	1.6	2.2	1.1	.76	1.7	2.6	1.7	1.0	.70	1.8	1.2	.85
26	1.6	1.0	1.1	.82	1.6	2.5	1.5	1.0	.60	1.3	1.8	.82
27	1.6	.50	1.1	.84	1.8	2.5	1.7	1.0	.56	1.2	3.8	.85
28	1.7	.50	1.1	.90	1.7	2.4	1.8	.97	.54	1.1	1.3	.85
29	1.9	.50	1.1	.96	---	2.2	1.8	1.0	.50	1.0	1.1	.85
30	2.0	.60	1.1	.98	---	2.2	1.6	.91	.46	.97	1.0	.88
31	1.9	---	.84	1.0	---	2.2	---	.88	---	.91	1.0	---
TOTAL	47.0	50.00	31.76	19.09	41.9	63.7	61.5	37.66	20.38	35.40	31.54	26.46
MEAN	1.52	1.67	1.02	.62	1.50	2.05	2.05	1.21	.66	1.14	1.02	.88
MAX	2.0	2.2	1.1	1.0	2.1	2.6	2.4	1.6	1.3	13	3.8	1.0
MIN	1.3	.50	.64	.37	1.0	1.6	1.5	.88	.46	.42	.64	.82
AC-FT	93	99	63	38	83	126	122	75	40	70	63	52
CAL YR 1976	TOTAL	540.32	MEAN	1.48	MAX	13	MIN	.23	AC-FT	1070		
WTR YR 1977	TOTAL	466.39	MEAN	1.28	MAX	13	MIN	.37	AC-FT	925		

09306255 YELLOW CREEK NEAR WHITE RIVER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1975 to current year.

WATER TEMPERATURE: April 1975 to current year.

SUSPENDED--SEDIMENT DISCHARGE: April 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1975. Pumping sediment sampler since April 1974.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 5,200 micromhos Nov. 21, 1975; minimum, 475 micromhos Sept. 17, 1976.

WATER TEMPERATURES: Maximum, 34.5°C July 31, 1976; minimum, freezing point on many days during winter months each year.

SEDIMENT CONCENTRATIONS: Maximum daily, 15,000 mg/L, estimated July 24, 1977; minimum daily, 3 mg/L Oct. 12, 1976.

SEDIMENT LOADS: Maximum daily, 520 tons, estimated (470 t) July 24, 1977; minimum daily, 0.01 ton (0.01 t) Oct. 12, 1976, July 7, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 5,150 micromhos June 25; minimum, 610 micromhos July 24.

WATER TEMPERATURES: Maximum, 33.5°C June 25, 26; minimum, freezing point on many days during November to April.

SEDIMENT CONCENTRATIONS: Maximum daily 15,000 mg/L, estimated July 24; minimum daily, 3 mg/L Oct. 12.

SEDIMENT LOADS: Maximum daily, 520 tons, estimated (470 t) July 24; minimum daily, 0.01 ton (0.01 t) Oct. 12, July 7.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)
OCT 07...	1320	1.3	3500	8.9	15.5	17	6.5	510	0	22
NOV 05...	1600	1.7	4500	8.8	10.5	7	9.3	510	0	21
APR 12...	1115	2.4	3720	8.4	8.0	--	9.2	590	0	32
AUG 15...	1200	.65	4200	8.9	22.0	--	--	400	0	21

DATE	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
OCT 07...	110	900	15	4.5	1300	277	1530	570	150	2.7
NOV 05...	110	830	16	3.9	1490	251	1640	540	130	2.8
APR 12...	120	900	14	4.2	1730	120	1620	590	110	1.8
AUG 15...	85	950	21	4.5	2060	--	1690	510	160	2.5

DATE	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED (SUM OF CONSTITU- ENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)
OCT 07...	5.8	2580	3.51	9.13	.06	.06	.48	.54	.03	.01
NOV 05...	3.3	2630	3.58	12.7	.56	.00	.60	.60	.04	.00
APR 12...	13	2650	3.60	17.5	.69	--	--	--	.10	--
AUG 15...	5.4	2760	3.75	4.84	.06	--	--	--	.02	--

09306255 YELLOW CREEK NEAR WHITE RIVER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BORON (B) (JG/L)	DIS- SOLVED CAD- MIUM (CD) (JG/L)	DIS- SOLVED CHRO- MIUM (CR) (JG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDE D ORGANIC CARBON (C) (MG/L)
OCT 07...	--	740	--	--	--	--	--	--	--	.3
NOV 05...	--	690	--	--	--	--	--	--	6.5	.3
APR 12...	2	630	2	0	5	3	.0	1	--	--
AUG 15...	7	810	1	0	2	2	.0	2	11	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	4000	4480	3730	3940	4000	3880	4480	4180	4560	4210	---
2	---	4140	4510	3900	3980	3900	3480	4500	4190	4570	4170	---
3	---	4330	4400	3380	3970	3910	3550	4490	4140	4580	4240	---
4	---	4400	4270	3010	4000	3890	3690	4340	4280	4470	4210	---
5	---	4480	4090	2890	3970	4160	3630	4090	4270	4030	4170	---
6	---	4320	3960	3380	3940	4200	3470	4020	4270	4490	4020	---
7	---	4220	3730	3810	3950	4080	3490	4080	4290	4650	3750	---
8	---	4110	3470	3730	3860	3990	3560	4070	4280	4560	4070	---
9	---	3990	3720	3820	3910	4020	3590	4060	4460	4520	4140	---
10	---	3890	3770	3740	4160	4060	3650	4020	4170	4360	4020	---
11	---	3790	3980	3640	4250	4110	3700	3980	4240	4330	3980	---
12	---	3730	4020	3580	4170	4140	3700	3950	4240	---	3980	---
13	---	3590	4070	3560	4120	4040	3810	3950	4300	4170	3960	---
14	---	3470	4020	3530	4200	4170	3860	3910	4370	---	4000	---
15	---	3350	4060	3610	4120	4230	3780	3770	4400	4220	4160	---
16	---	3530	4110	3710	4060	4140	3860	3740	4390	4200	4120	---
17	---	3300	3970	3720	4070	4210	3860	3740	4400	4220	3870	---
18	---	3310	4080	3360	4000	4220	3800	3710	4400	4160	3500	---
19	---	3620	4000	2780	3910	4240	3750	3660	4400	4160	4060	---
20	---	3690	3990	2650	3860	4200	4080	3620	4410	3940	4060	4390
21	3650	3780	3900	2610	3950	4110	4300	3580	4370	3460	4050	4280
22	3740	3740	4000	2590	3940	4000	4410	3560	4370	3820	4080	4270
23	3920	4000	3850	2540	4060	3810	4410	3730	4380	2840	4100	4310
24	3880	4100	3900	2610	4130	3780	4330	3990	4070	2140	3910	4280
25	3960	4140	3950	3440	4130	3670	4180	3980	4810	4010	3780	4290
26	4010	4220	3600	3800	4200	3780	3950	4070	4450	4450	---	4350
27	4080	4690	3630	3720	4060	3750	4120	4030	4410	4340	---	4440
28	---	4790	3710	3800	3940	3660	4130	3980	4440	4340	---	4410
29	4060	4930	3760	3840	---	3680	4280	3980	4500	4310	---	4440
30	4000	4610	3630	3890	---	4020	4420	4050	4530	4260	---	4570
31	4140	---	3670	3930	---	3960	---	4180	---	4220	---	---

09306255 YELLOW CREEK NEAR WHITE RIVER, CO--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	12.0	1.0	.0	.0	.0	.0	1.5	.5	4.5	-0.5
2	---	---	13.0	1.0	.5	.5	.0	.0	2.0	.5	3.5	-0.5
3	---	---	13.0	1.0	.5	.5	.0	.0	1.5	.0	5.0	.0
4	---	---	13.0	1.0	.5	.5	.0	.0	2.0	.0	3.5	.0
5	---	---	13.0	1.0	.5	.5	.0	.0	2.0	.0	3.5	.0
6	---	---	12.0	1.0	.5	.5	.0	.0	2.0	.0	4.5	.0
7	---	---	10.5	1.0	2.0	.5	.0	.0	1.5	.0	6.5	.0
8	---	---	10.0	1.0	2.0	.5	.0	.0	1.0	.0	6.5	.0
9	---	---	10.0	1.0	2.0	.5	.0	.0	1.5	.0	4.5	.0
10	---	---	6.0	1.0	2.5	.5	.0	.0	1.0	.0	2.5	.5
11	---	---	7.0	1.0	.5	.0	.0	.0	1.5	.0	4.5	.0
12	---	---	2.0	1.0	.0	.0	.0	.0	2.0	-0.5	6.0	.0
13	---	---	4.0	1.0	.0	.0	.0	.0	3.5	.0	6.0	.0
14	---	---	3.5	.5	.0	.0	.0	.0	2.5	1.0	4.0	-0.5
15	---	---	4.0	.5	.0	.0	.0	.0	3.5	-0.5	7.5	.0
16	---	---	1.0	.5	.0	.0	.0	.0	4.0	-0.5	7.5	.0
17	---	---	---	1.0	.0	.0	.0	.0	4.5	.0	5.0	1.5
18	---	---	8.0	1.0	.0	.0	.0	-0.5	3.0	-0.5	6.0	1.0
19	---	---	7.0	.5	.0	.0	.0	-0.5	4.0	-0.5	7.0	.5
20	---	---	4.5	.5	.0	.0	-0.5	-0.5	3.5	-0.5	8.0	1.5
21	11.0	2.0	1.0	.5	.0	.0	-0.5	-0.5	3.5	-0.5	10.0	1.0
22	11.0	.5	1.5	.5	.0	.0	-0.5	-0.5	4.0	.0	10.5	1.0
23	13.5	.5	1.0	.5	.0	.0	-0.5	-0.5	4.5	-0.5	10.5	1.0
24	14.0	1.0	.5	.5	.0	.0	.0	-0.5	4.5	.0	8.5	1.5
25	8.5	.5	.5	.5	.0	.0	.5	-0.5	3.0	.0	10.5	3.0
26	7.5	.5	.5	.5	.0	.0	.5	.0	.5	-0.5	12.0	2.0
27	11.5	1.0	1.0	.0	.0	.0	.5	.0	3.5	-0.5	14.0	.5
28	8.5	1.0	.0	.0	.0	.0	1.0	.0	4.5	-0.5	6.5	.5
29	9.0	1.0	.0	.0	.0	.0	.5	.0	---	---	8.0	.0
30	11.0	.5	.0	.0	.0	.0	.5	.0	---	---	11.5	.0
31	11.0	.5	---	---	.0	.0	1.0	.0	---	---	9.0	.0

09306255 YELLOW CREEK NEAR WHITE RIVER, CO--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10.5	.0	18.5	7.0	25.0	8.0	30.5	11.0	20.0	8.5	21.5	15.0
2	6.5	-0.5	15.0	5.0	28.5	11.5	30.5	15.5	19.0	8.5	21.0	13.0
3	8.5	.0	16.0	5.0	29.5	10.5	29.5	14.5	17.5	11.5	22.0	14.5
4	14.0	.0	21.0	6.0	32.0	11.0	26.0	16.0	17.5	12.0	26.0	14.0
5	14.0	2.5	23.0	5.5	31.5	12.5	27.0	14.5	17.5	15.0	23.5	13.5
6	18.0	.0	22.5	5.5	29.0	13.5	29.5	12.5	19.0	14.5	25.0	13.5
7	19.5	1.0	24.5	4.5	32.0	13.5	29.5	11.5	21.5	14.5	24.5	14.0
8	19.5	1.0	26.0	5.0	28.0	15.0	29.0	10.0	21.5	17.0	17.5	15.0
9	19.5	1.5	26.0	5.5	28.0	15.0	27.0	11.0	21.5	13.5	19.0	12.0
10	19.5	2.0	19.0	6.5	26.0	12.5	28.0	8.0	22.0	12.5	17.5	13.5
11	14.0	4.5	21.0	2.5	29.0	8.0	27.0	9.0	22.0	15.5	16.5	16.0
12	13.5	4.5	22.0	3.5	30.0	7.0	---	---	22.5	13.5	17.0	14.0
13	17.0	3.0	22.5	7.0	30.0	7.0	22.0	14.5	21.0	14.0	18.5	11.5
14	18.0	1.0	22.0	8.0	29.0	8.0	---	---	21.0	13.5	17.0	11.5
15	7.0	3.0	24.0	7.5	29.0	8.0	22.0	10.5	20.5	16.0	17.0	13.5
16	18.0	5.0	22.0	7.0	29.5	7.0	20.5	11.0	25.5	16.5	16.5	11.5
17	24.0	2.5	24.0	6.5	31.0	8.0	21.0	11.5	20.0	17.0	16.5	11.0
18	21.0	5.0	22.5	5.0	29.5	11.0	19.5	14.0	20.0	17.5	16.5	7.5
19	10.0	4.0	21.0	2.5	30.5	9.0	18.5	15.5	20.0	16.5	16.5	9.5
20	20.0	2.0	22.5	4.5	26.5	7.0	21.0	15.5	23.5	16.0	16.5	9.5
21	20.5	.5	22.5	3.5	28.5	8.5	18.5	16.0	20.0	15.0	16.5	9.5
22	24.0	.5	24.5	4.0	30.0	9.0	18.5	15.5	22.0	14.5	16.0	6.0
23	24.0	2.0	21.0	6.5	32.5	9.5	18.5	11.0	21.5	14.5	16.0	5.0
24	24.5	3.5	20.5	6.0	30.5	12.5	18.5	14.5	19.5	16.0	16.0	1.0
25	26.0	3.5	23.5	9.5	33.5	13.0	25.0	14.5	19.5	16.5	16.0	4.0
26	23.5	4.0	17.5	8.0	33.5	14.5	26.0	13.0	19.0	11.0	16.0	7.0
27	22.5	6.5	20.0	7.0	30.0	13.5	18.5	14.5	19.0	9.5	16.5	4.0
28	18.5	7.5	22.0	7.5	31.5	12.5	22.0	13.0	19.0	11.0	16.0	6.0
29	26.0	7.0	24.5	5.5	30.5	11.5	18.5	12.0	18.5	9.0	16.0	7.0
30	25.5	6.0	28.5	9.0	30.0	10.0	20.5	12.5	18.5	12.5	16.0	14.0
31	---	---	30.0	7.0	---	---	21.0	9.0	22.0	14.0	---	---

09306255 YELLOW CREEK NEAR WHITE RIVER, CO--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	64	.22	14	.07	57	.10	---	.15	---	.35	---	2.6
2	104	.39	17	.09	66	.12	---	.09	---	.35	---	2.6
3	172	.65	23	.11	110	.24	---	.06	---	.35	---	2.6
4	144	.54	24	.12	88	.19	54	.05	---	.46	---	2.1
5	324	1.2	31	.16	---	.24	45	.05	---	.46	---	1.6
6	276	1.0	32	.16	---	.27	---	.05	---	.58	---	2.1
7	84	.32	32	.16	---	.35	117	.13	---	.58	---	2.6
8	15	.05	39	.19	124	.33	56	.07	35	.11	---	4.0
9	6	.02	36	.18	146	.43	---	.06	---	.58	---	3.6
10	6	.02	46	.22	---	.46	---	.06	---	.58	---	2.6
11	4	.02	52	.24	---	.46	---	.07	---	.74	211	1.0
12	3	.01	60	.28	---	.46	---	.07	---	.96	---	2.6
13	118	.48	54	.25	---	.46	---	.08	---	1.6	---	5.0
14	217	.88	48	.22	254	.75	---	.08	---	1.6	---	4.0
15	205	.83	88	.40	---	.46	---	.09	---	1.6	---	3.6
16	245	.99	93	.45	288	.86	---	.10	---	2.1	---	4.0
17	165	.67	96	.52	---	.46	---	.10	---	2.6	---	5.0
18	185	.75	69	.41	---	.46	---	.11	---	2.6	---	5.0
19	248	1.1	48	.27	---	.46	---	.12	---	2.6	---	4.0
20	295	1.2	46	.21	---	.46	---	.12	---	2.1	---	5.0
21	234	.88	47	.23	---	.46	---	.13	---	2.6	---	5.0
22	---	1.0	48	.27	---	.46	---	.14	---	5.0	---	6.0
23	---	1.6	70	.38	90	.27	---	.15	---	2.6	---	8.4
24	---	1.6	93	.53	---	.46	---	.16	---	3.6	---	11
25	---	1.6	100	.59	---	.46	---	.18	---	2.1	---	11
26	31	.13	90	.24	---	.46	---	.22	---	1.6	---	10
27	---	1.6	80	.11	---	.46	---	.23	---	2.6	---	10
28	---	2.1	70	.09	---	.46	---	.27	---	2.1	423	2.7
29	---	3.6	64	.09	---	.46	---	.31	---	---	990	5.9
30	18	.10	52	.08	---	.46	---	.34	---	---	---	6.0
31	23	.12	---	---	---	.23	---	.35	---	---	---	6.0
TOTAL	---	25.67	---	7.32	---	12.66	---	4.19	---	45.10	---	147.6

09306300 WHITE RIVER ABOVE RANGELY, CO

LOCATION.--Lat 40°06'26", long 108°42'44", in SW¼SE¼ sec.27, T.2 N., R.101 W., Rio Blanco County, Hydrologic Unit 14050007, on left bank 80 ft (24 m) upstream from Taylor Draw and 4.7 mi (7.6 km) east of Rangely.

DRAINAGE AREA.--2,790 mi² (7,230 km²), approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 5,270 ft (1,606 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Diversions above station for irrigation of about 31,900 acres (129 km²).

AVERAGE DISCHARGE.--5 years, 618 ft³/s (17.50 m³/s), 447,700 acre-ft/yr (552 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,260 ft³/s (121 m³/s) June 9, 1975, gage height, 7.02 ft (2.140 m); maximum gage height, 8.68 ft (2.646 m) Jan. 19, 1977 (backwater from ice); minimum daily discharge, 62 ft³/s (1.76 m³/s) July 13, 14, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 832 ft³/s (23.6 m³/s) June 2, gage height, 3.82 ft (1.164 m), no peak above base of 2,800 ft³/s (79 m³/s); maximum gage height, 8.68 ft (2.646 m) Jan. 19 (backwater from ice); minimum daily discharge, 62 ft³/s (1.76 m³/s) July 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	416	373	350	310	285	325	385	515	480	93	129	267
2	416	369	350	310	300	340	385	539	687	88	116	261
3	458	373	350	300	320	355	385	474	638	150	103	246
4	463	373	350	280	320	365	385	527	564	159	109	284
5	458	373	350	250	295	375	385	452	564	155	118	291
6	452	377	350	230	295	390	380	381	509	192	131	264
7	436	377	350	220	300	403	375	369	463	153	153	245
8	426	377	340	220	305	412	380	381	421	147	131	255
9	426	373	340	210	305	458	385	491	398	139	133	261
10	416	369	340	220	310	408	385	604	381	100	127	255
11	416	373	340	230	315	403	385	571	349	91	114	246
12	421	373	340	230	320	398	385	412	305	80	105	231
13	408	377	340	230	325	408	385	385	267	62	102	219
14	403	377	330	235	330	426	390	353	246	62	102	213
15	403	394	320	245	340	421	381	408	219	96	107	202
16	398	377	310	250	350	403	390	426	202	100	110	231
17	390	373	295	260	360	416	377	394	185	93	127	258
18	390	373	285	270	375	408	398	390	188	86	282	267
19	390	381	275	280	375	381	441	365	181	84	228	267
20	377	373	265	280	370	369	474	341	167	105	231	258
21	361	369	255	280	360	369	416	329	172	125	216	258
22	377	369	245	290	345	373	390	309	170	121	208	255
23	385	361	240	300	340	408	416	298	172	188	202	252
24	381	381	260	290	335	441	468	302	153	145	200	255
25	373	373	275	280	335	474	497	321	145	151	280	264
26	373	373	300	270	330	446	539	337	135	161	267	261
27	373	300	315	270	330	430	515	369	121	157	464	255
28	365	230	330	275	325	416	515	394	118	137	398	255
29	353	240	320	275	---	412	571	390	100	131	325	243
30	361	260	310	280	---	373	491	385	90	133	288	249
31	369	---	300	280	---	373	---	369	---	143	270	---
TOTAL	12434	10761	9720	8150	9195	12379	12654	12581	8790	3827	5976	7568
MEAN	401	359	314	263	328	399	422	406	293	123	190	252
MAX	463	394	350	310	375	474	571	604	687	192	464	291
MIN	353	230	240	210	285	325	375	298	90	62	102	202
AC-FT	24660	21340	19280	16170	18240	24550	25100	24950	17430	7590	11660	15010
CAL YR 1976 TOTAL	200914											
WTR YR 1977 TOTAL	113935											
MEAN 549												
MAX 2030												
MIN 230												
AC-FT 398500												
AC-FT 226000												

NOTE.--NO GAGE-HEIGHT RECORD JAN. 11 TO FEB. 28.

09306300 WHITE RIVER ABOVE RANGELY, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL./ 100 ML)
OCT 07...	0940	426	710	8.6	7.0	4	10.0	14	--	33
NOV 05...	1330	382	780	8.7	7.0	3	10.0	3	--	--
DEC 14...	1100	330	830	8.2	.0	6	11.9	0	86	<1
JAN 26...	1000	--	782	8.3	.0	7	11.8	9	300	--
FEB 08...	1300	303	775	8.3	1.0	12	11.0	13	861	<5
MAR 23...	1400	430	725	8.4	4.0	25	10.2	33	<1	<1
APR 14...	1245	426	650	8.3	12.0	27	6.3	22	880	<1
MAY 24...	1115	329	875	8.3	16.0	23	--	2	35	<1
JUN 23...	1215	170	1100	8.2	21.0	7	--	12	865	43
JUL 21...	1145	246	1250	7.9	22.0	50	6.2	49	--	--
AUG 30...	1330	298	860	8.5	20.5	19	7.6	32	>200	110

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)
OCT 07...	320	130	83	26	54	1.3	1.8	232	0	190
NOV 05...	280	100	70	26	60	1.6	1.7	223	0	183
DEC 14...	300	95	77	26	65	1.6	1.8	251	0	205
JAN 26...	280	92	73	23	64	1.7	1.6	227	0	185
FEB 08...	280	84	72	23	65	1.7	2.0	233	0	191
MAR 23...	260	82	64	23	65	1.8	2.3	211	0	170
APR 14...	240	76	63	20	57	1.6	1.9	200	0	160
MAY 24...	300	100	74	27	72	1.8	2.2	240	0	200
JUN 23...	390	160	89	40	110	2.4	3.2	280	0	230
JUL 21...	430	150	93	48	140	2.9	4.5	340	0	280
AUG 30...	360	120	94	29	66	1.5	2.8	280	3	230

B BASED ON NON-IDEAL COLONY COUNT.

09306300 WHITE RIVER ABOVE RANGELY, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL SUL- FIDE (S) (MG/L)	DIS- SOL- VED SUL- FIDE (S) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TJENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
OCT 07...	--	.3	210	32	.3	13	536	617	--	--
NOV 05...	--	.6	190	38	.3	12	510	526	--	--
DEC 14...	--	.3	180	42	.3	14	531	473	--	--
JAN 26...	--	.0	150	42	.3	15	482	--	--	--
FEB 08...	--	.2	170	44	.2	16	508	418	--	--
MAR 23...	--	.4	140	45	.3	13	458	532	--	--
APR 14...	--	.4	140	34	.2	14	430	495	--	--
MAY 24...	--	.3	170	44	.3	12	521	463	--	--
JUN 23...	--	.5	280	74	.5	10	747	343	--	--
JUL 21...	--	.9	310	75	.4	17	858	570	--	--
AUG 30...	.6	--	200	46	.4	17	597	464	600	320

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)
OCT 07...	.06	.16	.54	.06	.01	--	1	70	--	30
NOV 05...	.01	.00	.58	.02	.01	--	6	100	--	30
DEC 14...	.10	.00	.20	.04	.02	2	1	50	830	40
JAN 26...	.25	.03	.14	.01	.04	--	2	50	--	50
FEB 08...	.33	.01	.69	.08	.05	--	0	50	--	70
MAR 23...	.07	.09	1.1	.12	.05	--	1	50	--	220
APR 14...	.02	.01	.54	.05	.00	--	1	60	--	90
MAY 24...	.04	--	--	.04	.04	1	1	70	290	40
JUN 23...	.01	.03	.50	.02	.00	--	1	120	--	120
JUL 21...	.01	.14	.65	.28	--	--	3	140	--	140
AUG 30...	.05	.06	.89	.29	.33	--	2	110	--	--

09306300 WHITE RIVER ABOVE KANGELY, CU--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL MANGANESE (MN) (UG/L)	DIS- SOLVED MANGANESE (MN) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DIS- SOLVED SELENIUM (SE) (UG/L)	DIS- SOLVED STRONTIUM (SR) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS- SOLVED ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)
OCT 07...	--	10	--	1	860	3.9	5.7	0	--
NOV 05...	--	20	--	1	980	2.1	2.6	0	--
DEC 14...	40	20	1	1	1000	6.1	2.7	0	750
JAN 26...	--	10	--	1	940	1.8	1.7	0	--
FEB 08...	--	20	--	1	950	5.3	2.7	0	--
MAR 23...	--	50	--	1	830	3.5	3.5	0	--
APR 14...	--	10	--	2	750	3.3	6.6	0	--
MAY 24...	60	10	1	1	790	5.9	5.6	0	250
JUN 23...	--	20	--	5	1100	28	6.6	0	--
JUL 21...	--	40	--	1	1300	14	13	0	--
AUG 30...	--	10	--	2	960	6.6	6.1	0	460

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	DIS- SOLVED ALUMINUM (AL) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	TOTAL BERYLLIUM (BE) (UG/L)	DIS- SOLVED BERYLLIUM (BE) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS- SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DIS- SOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)
DEC 14...	1100	660	10	0	0	0	0	<10	0	0	0	<50
MAY 24...	1115	200	0	0	0	0	0	<10	1	0	0	<50
AUG 30...	1330	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	DIS- SOLVED MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)
DEC 14...	0	<10	2	<100	1	10	10	1.5	1.1	2	3	<50
MAY 24...	0	<10	1	<100	4	10	10	.0	.0	1	1	<50
AUG 30...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)	CYANIDE (CN) (MG/L)
DEC 14...	2	.9	10	10	--	--	--	--	--	--	.00
MAY 24...	2	2.1	2	10	--	--	--	--	--	--	.00
AUG 30...	--	1.4	--	--	<7.5	25	3.1	14	2.5	11	--

09306300 WHITE RIVER ABOVE RANGELY, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL PCB (UG/L)	POLY- CHLO- RINATED NAPH- THA- LENES	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE	TOTAL ODD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI- AZINON	TOTAL DI- ELDRIN	TOTAL ENDRIN (UG/L)	TOTAL ETHION
			(JG/L)		(JG/L)				(UG/L)	(UG/L)		(UG/L)
AUG 30...	1330	.0	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
DATE		TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE	TOTAL MALA- THION (UG/L)	TOTAL METHYL PARA- THION	TOTAL METHYL TRI- THION (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL TOX- APHENE (UG/L)	TOTAL TRI- THION	TOTAL 2,4-D	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX
			(UG/L)		(UG/L)				(UG/L)	(UG/L)		(UG/L)
AUG 30...	.00	.00	.00	.00	.00	.00	.00	0	.00	.01	.00	.00

09306300 WHITE RIVER ABOVE RANGELY, CO--Continued

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 to SEPTEMBER 1977

DATE TIME	DEC 13,76 1100	MAY 24,77 1415	AUG 31,77 1000			
TOTAL CELLS/ML	700	670	1900			
DIVERSITY: DIVISION	0.6	0.0	1.4			
..CLASS	0.6	0.0	1.4			
...ORDER	0.8	0.2	1.9			
...FAMILY	2.8	2.1	3.0			
....GENUS	3.0	2.3	3.2			
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
....JOCYSTACEAE						
.....ANKISTRODESMUS	--	-	--	-	25	1
...SCENEDESMACEAE						
....SCENEDESMUS	--	-	--	-	350#	18
...VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CARTARIA	--	-	--	-	25	1
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
...COSCINODISCEACEAE						
....CYCLOTELLA	18	3	18	3	--	-
....MELOSIRA	--	-	--	-	250	13
...PENNATES						
...ACHNANTHACEAE						
...COCCONEIS	4	1	*	0	99	5
...RHOICOSPHEMIA	--	-	*	0	49	3
...CYMBELLACEAE						
....AMPHORA	4	1	*	0	25	1
...CYMBELLA	44	6	36	5	49	3
...EPITHEMIA	4	1	6	1	74	4
...DIATOMACEAE						
....DIATOMA	150#	21	140#	20	25	1
...FRAGILARIACEAE						
....FRAGILARIA	13	2	12	2	--	-
...HANNAEA	4	1	*	0	--	-
...SYNEDRA	18	3	12	2	--	-
...GOMPHONEMACEAE						
....GOMPHONEMA	130#	19	6	1	25	1
...MERIDIONACEAE						
....MERIDION	--	-	*	0	--	-
...NAVICULACEAE						
....CALONEIS	--	-	6	1	--	-
...NAVICULA	53	8	300#	45	200	11
...STAURONEIS	*	0	--	-	--	-
...VITZSCHIA						
....NITZSCHIA	140#	20	130#	19	350#	18
...SURIPELLACEAE						
....CYMATOPLEURA	4	1	--	-	--	-
....SURIPELLA	--	-	6	1	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...HORMOGONALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	120#	16	--	-	350#	18
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	*	0	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09306300 WHITE RIVER ABOVE RANGELY, CO--CONTINUED

BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE TIME	DEC 14, 76 1100	MAY 24, 77 1115	AUG 30, 77 1330			
TOTAL CELLS/ML	750	250	460			
DIVERSITY: DIVISION	0.9	0.4	0.4			
..CLASS	0.9	0.4	0.4			
...ORDER	0.9	0.5	0.6			
....FAMILY	2.5	2.4	2.2			
.....GENUS	2.6	2.5	2.4			
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
....SCENEDESMACEAE						
.....SCENEDESMUS	--	-	* 0		40	9
..TETRASPORALES						
...PALMELLACEAE						
....GLOEOCYSTIS	41	5	--	-	--	-
CHRYSTOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
....COSCINODISCEAE						
.....CYCLOTELLA	5	1	9	4	10	2
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	21	3	--	-	--	-
....COCCONEIS	5	1	17	7	--	-
....RHODOSIPHENIA	5	1	--	-	--	-
...CYMBELLACEAE						
....AMPHORA	--	-	--	-	10	2
....CYMBELLA	21	3	9	4	--	-
....EPITHEMIA	15	2	2	1	50	11
...DIATOMACEAE						
....DIATOMA	10	1	12	5	30	7
...FRAGILARIACEAE						
....FRAGILARIA	--	-	--	-	10	2
....SYNEDRA	5	1	5	2	--	-
...GOMPHONEMACEAE						
....GOMPHONEMA	21	3	2	1	10	2
...NAVICULACEAE						
....GYROSIGMA	--	-	* 0		10	2
....NAVICULA	180#	24	66#	27	240#	52
....PINNULARIA	10	1	--	-	--	-
...NITZSCHACEAE						
....NITZSCHIA	--	-	2	1	--	-
....NITZSCHIA	310#	41	99#	40	10	2
...SURIRELLACEAE						
....SURIRELLA	5	1	2	1	40	9
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...HORMOGONALES						
....OSCILLATORIACEAE						
.....OSCILLATORIA	92	12	19	8	--	-
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
....EUGLENACEAE						
.....TRACHELOMONAS	5	1	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

GREEN RIVER BASIN

09306380 DOUGLAS CREEK AT RANGELY, CO

LOCATION.--Lat 40°05'17", long 108°46'31", in SE¼NW¼ sec.6, T.1 N., R.101 W., Rio Blanco County, Hydrologic Unit 14050007, on left upstream side of Colorado Highway 64 bridge, about 0.3 mi (0.5 km) above confluence with White River, and about 1 mi (1.6 km) east of Rangely.

DRAINAGE AREA.--425 mi² (1,101 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to September 1977.

GAGE.--Water-stage recorder. Altitude of gage is 5,235 ft (1,560 m), from topographic map.

REMARKS.--Records fair except those for winter period, which are poor. Several small diversions above station for irrigation of hay meadows.

RECORDS FOR CURRENT YEAR.--Maximum discharge, 3,250 ft³/s (92.0 m³/s) July 24, gage height, 9.87 ft (3.008 m), from rating curve extended above 60 ft³/s (1.7 m³/s), on basis of slope-area measurements at 7.70 and 9.87 ft (2.347 and 3.008 m); no flow most days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	2.0	5.5	1.2	.00	.00	.00	.00
2	.01	.00	.00	.00	.00	2.4	5.5	1.1	.00	.00	.00	.00
3	.03	.00	.00	.00	.00	3.0	4.9	1.0	.00	.00	.00	.00
4	.01	.00	.00	.00	.00	3.0	4.7	.90	.00	.59	.00	.00
5	.00	.00	.00	.00	.00	3.0	4.3	.54	.00	119	.00	.00
6	.00	.00	.00	.00	.00	3.0	4.9	.21	.00	1.0	62	.00
7	.00	.00	.00	.00	1.6	3.0	6.3	.05	.00	.00	50	.00
8	.00	.00	.00	.00	1.7	2.9	9.7	.00	.00	.00	38	.00
9	.00	.00	.00	.00	1.8	2.9	9.7	.00	2.9	.00	27	.00
10	.00	.00	.00	.00	2.2	2.8	8.0	.00	.07	.00	5.0	.00
11	.00	.00	.00	.00	3.0	2.8	4.7	.00	.00	.00	.00	154
12	.00	.00	.00	.00	4.0	1.6	4.3	.00	.00	.00	.00	448
13	.00	.00	.00	.00	3.6	1.2	4.3	.02	.00	.00	.00	50
14	.00	.00	.00	.00	3.8	1.3	4.1	.01	.00	.00	.00	5.0
15	.00	.00	.00	.00	4.0	3.9	4.1	.00	.00	.00	.00	49
16	.00	.33	.00	.00	3.3	5.2	3.9	.00	.00	.00	.00	24
17	.00	.21	.00	.00	2.8	16	3.7	.00	.00	.00	.00	.00
18	.00	.30	.00	.00	2.7	12	2.9	.00	.00	.00	49	.00
19	.00	.48	.00	.00	2.4	4.1	2.8	.00	.00	49	42	.00
20	.00	.60	.00	.00	2.3	4.1	2.8	.00	.00	20	36	.00
21	.00	.30	.00	.00	2.5	3.1	2.4	.00	.00	5.2	17	.00
22	.00	.07	.00	.00	3.3	2.3	2.3	.00	.00	22	.00	.00
23	.00	.04	.00	.02	3.1	3.5	1.5	.00	.00	31	.00	.00
24	.00	.00	.00	.00	3.0	6.1	1.6	.00	.00	354	5.2	.00
25	.00	.00	.00	.00	2.8	8.6	1.3	.00	.00	80	160	.00
26	.00	.00	.00	.00	2.7	6.6	1.3	.00	.00	40	5.6	.00
27	.00	.00	.00	.00	2.6	7.3	1.2	.00	.00	36	119	.00
28	.00	.00	.00	.00	2.5	10	1.2	.00	.00	22	20	.00
29	.00	.00	.00	.00	---	8.3	1.2	.00	.00	12	.00	.00
30	.00	.00	.00	.00	---	6.6	1.2	.00	.00	1.8	.00	.00
31	.00	---	.00	.00	---	5.2	---	.00	---	.00	.00	---
TOTAL	.05	2.33	.00	.02	61.70	147.8	116.3	5.03	2.97	793.59	635.80	730.00
MEAN	.002	.078	.000	.001	2.20	4.77	3.88	.16	.099	25.6	20.5	24.3
MAX	.03	.60	.00	.02	4.0	16	9.7	1.2	2.9	354	150	448
MIN	.00	.00	.00	.00	.00	1.2	1.2	.00	.00	.00	.00	.00
AC-FT	.10	4.6	.00	.04	122	293	231	10.0	5.9	1570	1200	1450
WTR YR 1977	TOTAL	2495.59	MEAN	6.84	MAX	448	MIN	.00	AC-FT	4950		

GREEN RIVER BASIN

293

09306380 DOUGLAS CREEK AT KANGELY, CU--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD--October 1976 to September 1977.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

		INSTAN- TANEOUS DIS- CHARGE	SPE- CIFIC CON- DUCT- ANCE	PH	TEMPER- ATURE	DIS- SOLVED OXYGEN	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL)	HARD- NESS (CA+MG)	NON- CAR- BONATE HARD- NESS	DIS- SOLVED CAL- CIUM (CA)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA)
DATE	TIME	(CFS)	(MICRO- MHOS)	(UNITS)	(DEG C)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)
FEB 08...	1100	1.6	4000	8.1	.5	10.4	35	1300	600	150	220	580
18...	1300	8.3	1400	8.4	--	--	20	450	160	59	73	190
MAR 23...	1230	2.4	2200	8.4	13.0	7.9	--	860	530	130	130	290
APR 14...	1015	4.1	1750	8.5	10.0	7.4	--	650	330	94	100	220
JUL 20...	1130	7.3	1000	8.3	23.5	5.8	--	410	200	120	26	72
26...	--	--	950	--	22.0	--	--	320	180	73	33	95

		SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K)	BICAR- BONATE (HCO3)	CAR- BONATE (CO3)	ALKA- LINITY AS CACO3	DIS- SOLVED SULFATE (SO4)	DIS- SOLVED CHLO- RIDE (CL)	DIS- SOLVED FLUO- RIDE (F)	DIS- SOLVED SILICA (SiO2)	DIS- SOLVED (SUM OF CONSTI- TUENTS)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)
DATE			(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)		
FEB 08...	7.1	12	825	0	677	1700	82	.6	18	3170	4.31	14.5	
18...	3.9	4.9	344	3	287	540	35	.3	6.5	1080	1.47	24.2	
MAR 23...	4.3	7.8	402	0	330	1000	40	.5	8.4	1810	2.46	11.7	
APR 14...	3.8	4.7	350	16	310	710	24	.5	9.0	1350	1.84	14.9	
JUL 20...	1.6	9.3	250	0	210	330	51	.5	10	751	1.02	15.0	
26...	2.3	9.2	170	--	140	340	23	.6	8.1	680	.92	--	

		DIS- SOLVED NITRITE PLUS NITRATE (N)	DIS- SOLVED AMMONIA NITRO- GEN (N)	DIS- SOLVED ORGANIC NITRO- GEN (N)	DIS- SOLVED KJEL. NITRO- GEN (N)	TOTAL PHOS- PHORUS (P)	DIS- SOLVED ARSENIC (AS)	DIS- SOLVED IRON (FE)	DIS- SOLVED LEAD (PB)	DIS- SOLVED MAN- GANESE (MN)	DIS- SOLVED MERCURY (HG)	DIS- SOLVED SELE- NIUM (SE)	DIS- SOL- VED ORGANIC CARBON (C)
DATE		(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(MG/L)
FEB 08...	.76	.28	.47	.75	.15	2	130	9	40	.0	3	18	
18...	.20	.10	.43	.53	.42	--	--	--	--	--	--	--	
MAR 23...	.85	.13	.55	.68	--	--	--	--	--	--	--	--	
APR 14...	.43	.01	.45	.46	.49	--	--	--	--	--	--	--	
JUL 20...	1.7	.68	2.8	3.5	9.6	1	460	19	160	.0	0	31	
26...	3.3	.06	1.4	1.5	15	--	--	--	--	--	--	--	

09306500 WHITE RIVER NEAR WATSON, UT

LOCATION.--Lat 39°58'46", long 109°10'41", in SE¼SW¼NE¼ sec.2, T.10 S., R.24 E., Uintah County, UT, Hydrologic Unit 14050007, on right bank 350 ft (110 m) downstream from bridge on State Highway 45, 1 mi (2 km) downstream from Evacuation Creek, and 7 mi (11 km) north of Watson.

DRAINAGE AREA.--4,020 mi² (10,410 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1904 to October 1906 (no winter records), May to November 1918, April 1923 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "near Dragon" 1906 and "near Rangely, Colo." 1904-5, 1918.

GAGE.--Water-stage recorder. Datum of gage is 4,946.78 ft (1,507.799 m) above mean sea level. See WSP 1733 for history of changes prior to Oct. 27, 1959.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 31,900 acres (129 km²) above station.

AVERAGE DISCHARGE.--53 years (water years 1924-77), 693 ft³/s (19.63 m³/s), 502,100 acre-ft/yr (b19 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 8,160 ft³/s (231 m³/s) July 15, 1929; maximum gage height, 13.1 ft (3.99 m) Feb. 11, 1962, from floodmark in well (backwater from ice); minimum daily discharge, 11 ft³/s (0.31 m³/s) Dec. 6, 1972, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,310 ft³/s (37.1 m³/s) July 25, gage height, 3.79 ft (1.155 m), no peak above base of 2,900 ft³/s (82 m³/s); maximum gage height, 3.96 ft (1.207 m) Jan. 20, 22 (backwater from ice); minimum discharge, 12 ft³/s (0.34 m³/s) July 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	365	365	225	280	265	375	328	503	307	23	164	230
2	385	365	265	340	295	375	338	536	515	17	129	230
3	410	365	285	350	325	375	346	507	602	13	109	210
4	448	370	310	350	335	370	328	495	587	56	92	215
5	438	370	340	345	335	365	320	502	559	224	102	272
6	432	365	350	340	335	380	338	417	519	283	137	230
7	410	365	360	300	335	390	338	351	477	190	173	205
8	405	365	370	295	345	405	355	346	447	115	179	190
9	395	365	370	225	345	438	372	388	428	92	135	176
10	395	356	360	215	345	416	392	524	395	86	138	157
11	395	360	350	220	345	416	414	568	373	67	121	150
12	390	356	335	270	350	395	440	491	338	52	102	256
13	400	351	320	295	355	380	440	356	307	40	63	225
14	385	346	305	295	355	385	416	346	251	27	80	217
15	380	380	295	320	355	405	379	342	228	27	77	287
16	385	375	300	350	355	421	371	421	193	52	103	297
17	370	367	300	360	355	395	374	400	160	94	137	232
18	365	375	285	360	360	432	370	359	135	92	286	215
19	365	363	270	360	365	410	419	361	140	77	271	205
20	370	371	255	350	370	400	468	324	125	220	230	211
21	356	365	245	345	375	405	457	307	120	138	223	211
22	375	356	245	345	370	432	394	299	115	174	203	202
23	380	342	250	345	375	421	385	275	118	157	193	199
24	375	351	255	345	375	426	431	255	113	328	184	195
25	370	356	255	340	375	434	483	255	92	474	457	199
26	365	366	265	335	365	433	527	275	73	235	362	199
27	365	311	270	335	365	392	529	324	64	232	506	192
28	365	134	260	335	370	370	525	356	47	224	494	186
29	356	210	245	335	---	360	558	356	42	170	363	180
30	356	225	260	335	---	351	524	346	32	159	298	167
31	360	---	260	320	---	315	---	328	---	180	255	---
TOTAL	11911	10311	9060	9935	9795	12267	12359	11913	7902	4318	6396	6340
MEAN	384	344	292	320	350	396	412	384	263	139	206	211
MAX	448	380	370	360	375	438	558	568	602	474	506	297
MIN	356	134	225	215	265	315	320	255	32	13	77	150
AC-FT	23630	20450	17970	19710	19430	24330	24510	23630	15670	8560	12690	12580

CAL YR 1976 TOTAL 195511 MEAN 534 MAX 2050 MIN 134 AC-FT 387800
WTR YR 1977 TOTAL 112507 MEAN 308 MAX 602 MIN 13 AC-FT 223200

WATER-QUALITY RECORDS

WATER TEMPERATURE: December 1950 to current year.

WATER TEMPERATURES: Maximum daily, 31.0°C Aug. 8, 1954; minimum daily, freezing point on many days during winter months each year.

SPECIFIC CONDUCTANCE: Maximum daily, 1,360 micromhos July 18; minimum daily, 470 micromhos May 25.
WATER TEMPERATURES: Maximum daily, 26.5°C several days during July and August; minimum daily, freezing point on many days during winter months.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	690	720	840	---	---	---	860	---	820	1260	970	---
2	---	---	---	---	875	740	---	560	---	---	---	870
3	---	700	780	760	800	---	---	---	670	---	940	---
4	670	---	---	---	815	730	830	540	---	---	---	---
5	---	700	---	705	---	---	---	---	---	---	1000	---
6	670	---	730	780	---	---	830	530	590	1270	---	---
7	---	---	---	665	845	660	---	---	---	---	---	970
8	650	760	710	---	---	---	870	---	615	1200	1140	---
9	---	---	740	---	790	710	---	630	690	---	---	980
10	---	700	690	680	---	---	---	---	690	---	1020	---
11	660	---	---	---	830	680	780	510	---	1190	---	---
12	---	740	---	730	---	---	---	---	---	---	1020	---
13	670	---	710	---	---	---	690	470	750	1350	---	---
14	---	---	---	845	786	660	---	---	---	---	---	1130
15	630	760	700	---	---	---	700	---	790	1280	1080	960
16	---	780	---	---	780	700	---	640	---	---	---	1200
17	---	730	780	815	---	---	---	---	920	---	1170	---
18	660	---	---	---	780	670	760	650	---	1360	---	---
19	---	760	---	740	---	---	---	---	---	---	1230	1000
20	680	---	810	---	---	---	700	670	1040	1280	---	---
21	---	---	---	730	798	750	---	---	---	---	---	980
22	660	740	770	---	---	---	630	---	1060	1280	1080	---
23	---	---	---	---	815	630	---	750	---	---	---	970
24	---	750	820	700	---	---	---	---	1110	---	1060	---
25	---	---	---	---	811	640	690	810	---	---	---	---
26	---	760	---	710	---	---	---	---	---	1200	1160	980
27	680	---	820	---	---	---	570	830	1240	---	---	---
28	---	---	---	775	835	760	---	---	---	---	---	970
29	690	970	750	---	---	---	550	---	1190	1030	880	---
30	---	---	---	---	---	710	---	---	---	---	---	1020
31	---	---	565	780	---	---	---	---	---	---	950	---

09339900 EAST FORK SAN JUAN RIVER ABOVE SAND CREEK, NEAR PAGOSA SPRINGS, CO

LOCATION.--Lat 37°23'25", long 106°50'25", Archuleta County, Hydrologic Unit 14080101, on right bank 0.3 mi (0.5 km) upstream from Sand Creek, 4.0 mi (6.4 km) upstream from West Fork San Juan River, and 13 mi (21 km) northeast of Pagosa Springs.

DRAINAGE AREA.--64.1 mi² (166.0 km²).

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. Altitude of gage is 8,900 ft (2,713 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Diversions above station for irrigation of about 500 acres (2.0 km²) of hay meadows above station.

AVERAGE DISCHARGE.--21 years, 82.6 ft³/s (2.339 m³/s), 59,840 acre-ft/yr (73.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,260 ft³/s (64.0 m³/s) Sept. 14, 1970, gage height, 6.75 ft (2.057 m), from rating curve extended above 460 ft³/s (13 m³/s), on basis of slope-area measurement at gage height 6.13 ft (1.868 m); minimum daily determined, 3.4 ft³/s (0.096 m³/s) Dec. 26, 1958.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 405 ft³/s (11.5 m³/s) Aug. 18, gage height, 4.25 ft (1.298 m), no peak above base of 500 ft³/s (14 m³/s); minimum daily, 5.0 ft³/s (0.14 m³/s) Dec. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	14	8.5	6.0	7.0	7.0	10	70	122	22	40	41
2	39	14	8.5	6.5	7.0	7.0	12	66	122	20	37	42
3	39	14	8.0	7.0	6.5	7.0	12	75	120	19	35	49
4	37	14	8.0	7.0	6.5	7.5	11	64	113	24	32	51
5	36	14	8.0	7.0	6.5	8.0	10	66	109	30	32	46
6	33	14	8.0	6.5	7.0	7.0	12	74	111	24	29	38
7	30	14	8.0	7.5	6.5	7.0	16	88	104	22	26	33
8	29	13	8.0	6.5	7.0	7.0	21	97	97	20	30	32
9	27	13	7.5	7.5	7.0	6.8	28	102	86	19	30	29
10	26	13	8.0	7.5	7.5	7.2	32	95	79	18	30	29
11	26	13	8.0	8.0	7.0	7.0	33	79	70	17	33	35
12	24	13	8.0	8.0	7.0	7.5	24	76	62	17	30	112
13	23	13	7.5	8.0	7.0	7.6	25	70	57	16	29	62
14	23	13	7.5	8.0	7.0	7.5	24	70	52	18	36	53
15	22	12	7.0	8.0	7.0	7.5	26	62	47	24	140	52
16	21	11	7.0	7.5	7.5	7.5	28	59	43	26	74	46
17	21	11	7.0	7.5	7.0	7.5	31	59	40	24	127	42
18	20	12	6.5	7.5	6.5	7.0	39	57	36	21	257	39
19	18	12	6.0	7.5	7.0	7.5	43	55	34	19	158	37
20	17	12	6.0	8.0	7.0	7.5	35	52	31	25	140	35
21	16	11	5.5	8.5	7.5	8.0	33	48	30	35	133	34
22	17	11	5.5	8.5	7.5	9.0	32	50	28	58	124	43
23	17	11	5.5	8.5	7.0	11	34	54	27	40	106	65
24	16	9.0	5.5	8.0	7.0	11	36	62	28	43	95	44
25	16	8.5	6.0	7.5	7.0	12	38	62	25	79	84	41
26	16	8.0	5.5	7.5	7.0	11	38	56	28	92	72	39
27	16	8.0	6.0	7.5	7.5	15	39	58	28	90	65	38
28	15	8.0	5.5	7.5	7.0	16	47	66	26	76	58	39
29	15	8.5	5.0	7.0	---	14	50	79	26	64	53	36
30	14	8.5	5.5	7.0	---	11	57	99	25	52	49	35
31	14	---	6.0	7.0	---	11	---	113	---	46	45	---
TOTAL	722	350.5	212.5	231.5	196.0	274.6	876	2183	1806	1100	2229	1317
MEAN	23.3	11.7	6.85	7.47	7.00	8.86	29.2	70.4	60.2	35.5	71.9	43.9
MAX	39	14	8.5	8.5	7.5	16	57	113	122	92	257	112
MIN	14	8.0	5.0	6.0	6.5	6.8	10	48	25	16	26	29
AC-FT	1430	695	421	459	389	545	1740	4330	3580	2180	4400	2610
CAL YR 1976	TOTAL	29840.0	MEAN 81.5	MAX 590	MIN 5.0	AC-FT 59190						
WTR YR 1977	TOTAL	11498.1	MEAN 31.5	MAX 257	MIN 5.0	AC-FT 22810						

NOTE.--NO GAGE-HEIGHT RECORD DEC. 20 TO MAR. 8.

SAN JUAN RIVER BASIN

09340000 EAST FORK SAN JUAN RIVER NEAR PAGOSA SPRINGS, CO

LOCATION.--Lat 37°22'10", long 106°53'30", Archuleta County, Hydrologic unit 14080101, on right bank 0.2 mi (0.3 km) upstream from private highway bridge, 0.5 mi (0.8 km) upstream from West Fork, and 9.5 mi (15.3 km) northeast of Pagosa Springs.

DRAINAGE AREA.--86.9 mi² (225.1 km²).

PERIOD OF RECORD.--May 1935 to current year. Prior to October 1959, published as San Juan River near Pagosa Springs.

GAGE.--Water-stage recorder. Datum of gage is 7,597.63 ft (2,315.758 m) above mean sea level. Prior to Sept. 8, 1938, at site 0.2 mi (0.3 km) downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Diversions above station for irrigation of about 500 acres (2.0 km²) of hay meadows above station and a few small hay meadows below station.

AVERAGE DISCHARGE.--42 years, 117 ft³/s (3.313 m³/s), 84,770 acre-ft/yr (105 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,460 ft³/s (69.7 m³/s) Sept. 14, 1970, gage height, 4.85 ft (1.478 m); maximum gage height, 5.08 ft (1.548 m) Sept. 6, 1970; minimum daily discharge, 5.5 ft³/s (0.16 m³/s) Dec. 20, 1939.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 600 ft³/s (17.0 m³/s) Aug. 18, gage height, 3.40 ft (1.036 m), only peak above base of 600 ft³/s (17 m³/s); maximum gage height, 3.76 ft (1.146 m) Jan. 1 (backwater from ice); minimum daily discharge, 7.0 ft³/s (0.20 m³/s) Dec. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	18	16	8.0	9.3	9.0	14	105	150	29	51	56
2	52	18	14	9.0	9.3	9.0	17	97	148	28	43	58
3	55	18	13	9.5	8.6	9.0	17	107	150	25	38	69
4	51	18	13	9.5	8.6	10	16	95	141	36	36	78
5	47	18	13	9.0	8.6	11	14	95	139	56	35	66
6	42	17	13	8.5	9.0	9.0	20	109	137	38	33	52
7	37	17	11	9.5	8.6	9.0	30	123	137	32	28	42
8	35	16	12	8.5	9.0	9.0	46	133	127	28	30	38
9	33	16	12	9.5	9.0	9.0	60	141	117	24	34	36
10	32	16	13	9.5	9.3	9.6	64	133	107	22	31	35
11	30	16	13	10	9.0	9.0	64	107	95	21	39	48
12	29	15	11	10	9.0	9.0	47	105	81	20	34	254
13	28	16	11	10	9.0	9.0	47	99	74	20	32	123
14	28	16	11	10	9.0	10	40	103	69	23	46	99
15	27	16	10	10	9.0	10	44	89	62	31	223	87
16	26	15	10	9.5	9.3	10	51	89	56	42	107	74
17	25	15	9.5	9.5	9.0	10	60	89	51	36	216	66
18	24	15	9.0	9.5	8.5	9.6	74	83	46	31	388	60
19	21	15	8.5	9.5	9.0	10	76	80	42	26	234	54
20	20	16	8.5	10	9.0	10	56	72	38	40	212	48
21	20	15	8.0	11	10	12	52	66	35	56	191	44
22	20	15	8.0	11	10	16	54	69	33	85	179	64
23	20	15	8.0	11	9.0	18	55	78	32	58	155	119
24	21	15	8.0	10	9.0	18	61	87	35	56	133	72
25	20	15	8.5	9.6	9.0	21	60	83	32	107	123	62
26	20	15	7.5	9.6	9.0	18	60	76	38	131	107	60
27	20	15	8.5	9.6	10	25	62	76	38	145	97	56
28	18	16	7.5	9.6	9.0	28	76	91	36	111	83	62
29	18	16	7.0	9.3	---	22	80	109	36	85	76	56
30	18	16	7.5	9.3	---	15	93	129	37	71	69	52
31	18	---	8.0	9.3	---	15	---	145	---	61	62	---
TOTAL	910	480	318.0	297.8	254.1	398.2	1510	3063	2319	1574	3165	2090
MEAN	29.4	16.0	10.3	9.61	9.08	12.8	50.3	98.8	77.3	50.8	102	69.7
MAX	55	18	16	11	10	28	93	145	150	145	388	254
MIN	18	15	7.0	8.0	8.5	9.0	14	66	32	20	28	35
AC-FT	1800	952	631	591	504	790	3000	6080	4600	3120	6280	4150
CAL YR 1976	TOTAL	41754.0	MEAN	114	MAX	734	MIN	7.0	AC-FT	82820		
WTR YR 1977	TOTAL	16379.1	MEAN	44.9	MAX	388	MIN	7.0	AC-FT	32490		

09342500 SAN JUAN RIVER AT PAGOSA SPRINGS, CU

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 (0.3 km) upstream from McCabe Creek, 0.6 mi (1.0 km) downstream from bridge on U.S. Highway 160, and 2.0 mi (3.2 km) upstream from Mill Creek.

DRAINAGE AREA.--298 mi² (772 km²).

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 (2,149.462 m) above mean sea level. Jan. 29 to Mar. 6, 1911, nonrecording gage at site 0.5 mi (0.8 km) 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 (91 m) downstream at different datum.

REMARKS.--Records good. Diversions for irrigation of large areas above station.

AVERAGE DISCHARGE.--46 years, 361 ft³/s (10.22 m³/s), 261,500 acre-ft/yr (322 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft³/s (708 m³/s) Oct. 5, 1911, gage height, 17.8 ft (5.43 m), from floodmarks, from velocity-area study; minimum daily, 9.7 ft³/s (0.27 m³/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 (4.11 m), discharge about 16,000 ft³/s (453 m³/s), from information by local residents.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,150 ft³/s (32.6 m³/s) Aug. 18, gage height, 4.12 ft (1.25 m), no peak above base of 1,500 ft³/s (42 m³/s); minimum daily, 25 ft³/s (0.71 m³/s) Dec. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	247	68	58	29	34	41	53	332	392	57	94	114
2	238	71	46	31	34	37	46	262	360	50	78	116
3	244	74	46	33	36	36	48	340	348	46	72	182
4	222	71	45	33	35	39	44	244	336	56	62	170
5	203	72	47	31	35	39	52	265	312	101	57	160
6	195	70	47	31	39	31	64	332	312	88	56	130
7	175	66	38	35	36	39	87	376	312	72	50	110
8	147	68	40	29	34	42	118	412	300	61	42	94
9	124	60	41	34	34	47	158	432	279	52	42	72
10	112	58	45	34	36	45	198	396	247	46	37	70
11	106	55	45	34	36	37	200	256	187	40	52	80
12	101	53	38	37	36	37	140	259	154	39	56	456
13	94	51	39	37	38	46	140	232	136	37	44	230
14	92	51	37	37	38	52	120	268	118	42	53	175
15	90	48	36	36	38	45	118	222	103	64	417	175
16	88	46	33	35	40	52	145	205	97	74	265	160
17	88	47	33	34	42	45	156	213	90	57	480	134
18	88	50	31	35	42	39	238	185	82	61	857	122
19	87	48	31	35	46	40	268	170	71	60	605	114
20	85	50	30	35	47	46	180	158	65	56	635	105
21	87	51	28	37	48	44	128	134	57	87	635	94
22	83	51	27	38	51	62	134	147	52	120	570	92
23	82	51	27	38	44	77	140	172	48	95	460	298
24	80	51	29	37	44	77	160	222	62	97	388	158
25	80	50	29	33	41	85	163	203	57	158	340	130
26	90	51	26	31	32	71	156	160	58	268	272	120
27	74	53	29	32	39	83	149	145	61	332	227	114
28	64	55	28	32	34	99	187	154	56	253	198	120
29	62	55	25	32	---	66	216	238	55	170	170	110
30	61	56	26	33	---	58	216	324	74	136	151	103
31	64	---	27	33	---	62	---	372	---	120	138	---
TOTAL	3653	1701	1107	1051	1089	1619	4222	7830	4881	2995	7603	4308
MEAN	118	56.7	35.7	33.9	38.9	52.2	141	253	163	96.6	245	144
MAX	247	74	58	38	51	99	268	432	392	332	857	456
MIN	61	46	25	29	32	31	44	134	48	37	37	70
AC-FT	7250	3370	2200	2080	2160	3210	8370	15530	9680	5940	15080	8540
CAL YR 1976	TOTAL	120540	MEAN 329	MAX 2220	MIN 25	AC-FT 239100						
WTR YR 1977	TOTAL	42059	MEAN 115	MAX 857	MIN 25	AC-FT 83420						

SAN JUAN RIVER BASIN

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 (76 m) downstream from Blanco Diversion Dam, 1.1 mi (1.8 km) downstream from Leche Creek, and 12 mi (19.2 km) southeast of Pagosa Springs.

DRAINAGE AREA.--69.1 mi² (179.2 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 7,848.81 ft (2,392.3 m) above mean sea level.

REMARKS.--Flows controlled by diversion dam upstream.

COOPERATION.--Records collected and computed by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 1,200 ft³/s (34.0 m³/s) May 19, 1972; minimum daily, 6.9 ft³/s (0.20 m³/s) Dec. 29, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 690 ft³/s (19.5 m³/s) July 16; minimum daily, 6.9 ft³/s (0.20 m³/s) Dec. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	17	12	8.3	9.2	9.2	19	43	32	15	19	21
2	22	17	11	8.5	9.0	10	18	44	21	13	19	22
3	22	17	11	9.0	9.2	11	17	42	22	12	19	22
4	22	17	11	9.0	8.5	10	15	42	22	31	19	22
5	22	17	12	8.8	9.2	9.7	20	42	22	33	17	22
6	22	16	11	9.6	9.4	9.9	32	42	22	20	13	22
7	22	16	10	9.0	9.2	10	32	43	21	18	15	21
8	22	16	11	9.6	8.8	12	21	44	21	16	14	21
9	22	15	11	9.6	9.2	12	20	43	21	14	13	21
10	22	15	11	9.0	9.2	12	20	41	21	13	22	21
11	22	14	11	9.0	9.2	10	20	41	21	12	30	21
12	22	14	11	8.8	9.2	11	20	40	21	11	27	26
13	21	15	10	8.5	9.6	13	20	40	21	11	36	20
14	20	15	9.9	8.3	9.4	15	20	40	19	25	22	21
15	22	14	9.9	8.1	9.9	13	20	40	19	41	32	21
16	23	13	9.9	8.1	10	16	20	40	18	68	22	22
17	22	13	10	8.0	11	13	20	40	18	45	40	21
18	21	13	10	8.1	12	12	20	41	16	31	48	18
19	18	14	9.9	8.3	13	12	20	41	16	19	36	19
20	18	13	9.0	8.5	16	13	20	41	17	19	44	21
21	18	13	8.5	8.6	15	14	20	42	15	19	19	22
22	20	12	7.8	8.8	14	23	21	42	14	18	20	27
23	21	12	8.5	9.0	12	38	21	42	14	20	22	24
24	21	11	9.0	8.8	13	46	21	42	16	19	22	20
25	20	11	8.0	8.3	12	41	21	42	15	18	21	20
26	21	11	8.0	8.8	9.9	38	21	42	14	50	21	21
27	19	9.7	8.1	8.5	9.9	53	21	42	14	55	21	22
28	18	9.0	7.8	8.3	9.9	51	21	42	15	18	21	22
29	18	10	6.9	7.2	---	25	21	42	16	19	21	20
30	18	12	7.3	8.0	---	21	30	42	23	19	20	21
31	18	---	8.1	8.5	---	23	---	42	---	19	20	---
TOTAL	641	411.7	299.6	266.9	295.9	606.8	632	1292	567	741	735	642
MEAN	20.7	13.7	9.66	8.61	10.6	19.6	21.1	41.7	18.9	23.9	23.7	21.4
MAX	23	17	12	9.6	16	53	32	44	32	68	48	27
MIN	18	9.0	6.9	7.2	8.5	9.2	15	40	14	11	13	18
AC-FT	1270	817	594	529	587	1200	1250	2560	1120	1470	1460	1270
CAL YR 1976	TOTAL	8820.3	MEAN	24.1	MAX	132	MIN	6.9	AC-FT	17500		
WTR YR 1977	TOTAL	7130.9	MEAN	19.5	MAX	68	MIN	6.9	AC-FT	14140		

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	31	23	20	24	24	28	119	155	20	32	35
2	50	31	23	21	24	24	28	115	140	24	30	35
3	57	31	23	21	24	24	28	125	125	24	28	45
4	53	31	23	21	24	24	29	106	117	28	27	40
5	52	31	23	22	24	24	30	123	110	28	28	40
6	47	31	24	22	24	24	33	135	100	25	26	32
7	45	31	24	21	24	25	39	165	86	24	24	32
8	43	32	24	20	24	24	49	190	78	22	24	29
9	43	31	24	20	24	24	65	216	74	23	24	29
10	43	30	25	18	24	24	69	179	72	21	24	31
11	41	31	26	19	24	24	62	121	65	21	24	37
12	40	30	26	20	24	24	53	115	59	21	24	96
13	40	31	26	20	24	24	53	106	46	21	27	64
14	39	31	26	20	24	24	47	104	46	39	27	50
15	38	30	26	20	24	24	50	93	50	43	149	45
16	37	28	26	20	24	24	56	88	47	79	66	41
17	35	28	25	21	24	24	65	84	43	43	77	39
18	34	29	25	21	24	24	76	80	40	36	231	37
19	31	29	24	21	24	25	76	75	38	32	128	35
20	30	28	24	21	24	24	61	69	37	35	106	32
21	32	28	24	21	24	26	61	64	33	49	74	30
22	34	28	24	21	25	34	62	66	32	59	65	67
23	35	26	23	21	24	43	62	76	28	42	62	77
24	35	26	22	21	24	47	66	97	27	42	64	48
25	34	26	22	22	25	44	68	88	28	63	65	40
26	34	25	22	22	25	45	66	78	32	110	54	36
27	33	24	21	23	24	44	75	80	28	80	47	35
28	32	20	21	23	24	44	84	102	27	64	46	40
29	32	21	21	23	---	33	88	135	28	49	43	36
30	32	22	21	23	---	30	115	157	28	42	42	34
31	32	---	21	24	---	30	---	165	---	36	38	---
TOTAL	1213	851	732	653	675	902	1744	3516	1819	1251	1726	1267
MEAN	39.1	28.4	23.6	21.1	24.1	29.1	58.1	113	60.6	40.4	55.7	42.2
MAX	57	32	26	24	25	47	115	216	155	110	231	96
MIN	30	20	21	18	24	24	28	64	27	21	24	29
AC-FT	2410	1690	1450	1300	1340	1790	3460	6970	3610	2480	3420	2510
CAL YR 1976	TOTAL	32458	MEAN 88.7	MAX 522	MIN 20	AC-FT	64380					
WTR YR 1977	TOTAL	16349	MEAN 44.8	MAX 231	MIN 18	AC-FT	32430					

SAN JUAN RIVER BASIN

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 (183 m) downstream from Oso Diversion Dam, 5.5 mi (8.8 km) east of Chromo, and 6 mi (9.6 km) upstream from Little Navajo River.

DRAINAGE AREA.--100.5 mi² (260.6 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 7,647.71 ft (2,331.0 m) above mean sea level.

REMARKS.--Flows controlled by diversion dam upstream.

COOPERATION.--Records collected and computed by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 870 ft³/s (24.6 m³/s) May 11, 1973; minimum daily, 14 ft³/s (0.40 m³/s) Jan. 25, Dec. 28, 29, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 360 ft³/s (10.2 m³/s) Aug. 18; minimum daily, 14 ft³/s (0.40 m³/s) Dec. 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	38	24	27	33	27	36	126	72	18	37	39
2	39	38	24	27	33	26	35	105	59	17	35	40
3	39	37	22	25	27	29	35	92	59	17	33	54
4	38	38	25	26	25	28	33	92	58	29	27	46
5	38	37	29	24	26	27	36	92	58	36	24	50
6	38	35	29	23	28	26	42	91	58	32	22	35
7	38	36	21	25	30	26	51	90	58	28	21	27
8	38	35	19	44	26	26	48	90	58	26	21	25
9	38	35	21	35	28	27	41	90	58	27	21	30
10	38	35	24	29	36	28	41	91	57	26	20	35
11	38	35	24	39	31	27	41	91	57	24	22	44
12	38	34	22	47	27	27	40	90	57	24	29	107
13	38	35	24	44	26	28	40	90	51	24	32	82
14	38	35	24	36	25	29	40	90	44	38	31	63
15	40	33	24	30	25	29	40	89	49	46	131	55
16	43	29	24	37	27	30	40	86	51	82	89	52
17	41	29	24	21	27	29	40	86	49	47	88	48
18	40	31	21	31	27	28	40	83	45	43	130	45
19	36	31	18	24	27	26	40	81	44	32	124	44
20	36	30	19	20	27	30	39	74	43	29	85	40
21	36	29	19	20	28	30	39	64	40	42	58	38
22	40	28	17	31	29	37	39	64	38	61	58	42
23	41	28	18	31	25	41	39	70	27	42	58	98
24	42	26	21	30	28	45	39	93	19	41	58	57
25	40	26	15	26	28	45	39	88	17	62	58	48
26	41	26	16	24	26	43	39	72	19	101	54	43
27	39	22	18	25	30	47	39	71	27	87	52	41
28	37	21	14	27	31	48	39	87	23	74	49	46
29	39	23	14	26	---	34	39	110	23	56	44	42
30	37	25	19	28	---	33	57	116	22	48	43	40
31	38	---	27	27	---	37	---	91	---	42	41	---
TOTAL	1211	940	660	909	786	993	1206	2745	1340	1301	1595	1456
MEAN	39.1	31.3	21.3	29.3	28.1	32.0	40.2	88.5	44.7	42.0	51.5	48.5
MAX	49	38	29	47	36	48	57	126	72	101	131	107
MIN	36	21	14	20	25	26	33	64	17	17	20	25
AC-FT	2400	1860	1310	1800	1560	1970	2390	5440	2660	2580	3160	2890
CAL YR 1976	TOTAL	16968	MEAN 46.4	MAX 102	MIN 12	AC-FT 33660						
WTR YR 1977	TOTAL	15142	MEAN 41.5	MAX 131	MIN 14	AC-FT 30030						

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 (5.6 km) northeast of Chromo, and 4.0 mi (6.4 km) upstream from confluence with Navajo River.

DRAINAGE AREA.--14.2 mi² (36.8 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 7,756.10 ft (2,364.1 m) above mean sea level.

REMARKS.--Flows controlled by diversion dam upstream.

COOPERATION.--Records collected and computed by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 134 ft³/s (3.79 m³/s) May 18, 1973; no flow Apr. 14, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24 ft³/s (0.68 m³/s) Aug. 15, gage height, 1.28 ft (0.390 m); minimum daily, 0.61 ft³/s (0.017 m³/s) Aug. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	1.7	.98	1.1	1.1	1.1	1.9	6.3	3.2	1.1	.98	1.7
2	2.6	1.7	.98	1.1	1.1	1.1	1.7	5.8	3.3	1.1	.96	2.8
3	3.2	1.7	.98	1.1	1.1	1.1	1.6	6.1	3.0	1.0	.88	4.6
4	2.6	1.7	.88	1.1	1.1	1.1	1.7	5.2	2.9	1.4	.88	2.4
5	2.8	1.7	.88	1.1	1.1	1.1	2.1	5.1	2.8	1.7	.98	2.1
6	2.5	1.7	.88	1.1	1.1	1.1	3.3	5.1	2.1	1.2	.88	1.9
7	2.1	1.7	.88	1.1	1.1	1.2	6.0	5.1	2.1	1.2	.79	1.4
8	2.1	1.5	.88	1.1	1.1	1.3	9.6	5.1	2.1	1.2	.70	1.4
9	2.1	1.4	.88	1.1	1.1	1.6	14	4.9	2.1	1.5	.61	1.4
10	2.0	1.3	.98	1.1	1.1	1.6	14	4.2	2.1	1.1	.88	1.4
11	2.0	1.3	1.4	1.1	1.1	1.1	8.3	3.6	2.4	.79	1.3	2.0
12	2.0	1.4	1.4	1.1	1.1	1.2	1.8	3.9	2.0	.70	2.1	4.1
13	1.9	1.4	1.4	1.1	1.1	1.5	5.1	5.3	1.8	.85	3.6	2.8
14	1.9	1.4	1.3	1.1	1.1	1.5	6.1	6.5	1.5	2.6	2.5	2.0
15	1.7	1.2	1.3	1.1	1.1	1.6	4.8	6.1	1.4	1.6	15	1.6
16	1.6	.79	1.3	1.1	1.1	1.5	5.1	7.6	1.4	3.8	5.2	1.5
17	1.6	.79	1.3	1.1	1.1	1.4	4.8	8.2	1.3	1.5	4.6	1.5
18	1.6	1.2	1.3	1.1	1.1	1.3	7.0	5.6	1.2	1.2	12	1.4
19	1.3	1.1	1.3	1.1	1.1	1.3	6.9	4.9	1.2	1.2	6.9	1.3
20	1.4	.88	1.3	1.1	1.1	1.4	4.9	4.6	1.2	1.4	8.4	.98
21	1.4	1.1	1.1	1.1	1.1	1.7	5.0	4.4	1.2	1.9	4.9	.98
22	1.7	.88	1.1	1.1	1.1	2.5	6.5	4.3	1.2	3.3	3.8	1.4
23	1.9	.88	.98	1.1	1.1	2.8	6.9	3.9	1.4	2.1	3.1	3.8
24	2.0	.79	.98	1.1	1.1	3.3	7.3	3.8	1.9	3.0	3.3	1.5
25	1.9	.88	.98	1.1	1.1	3.5	6.5	3.3	1.9	2.9	3.2	1.4
26	1.9	.88	.98	1.1	1.1	3.5	6.7	3.3	1.9	3.6	2.4	1.4
27	1.4	.88	.98	1.1	1.1	4.8	7.1	4.3	1.5	3.8	2.1	1.3
28	1.6	.98	.98	1.1	1.1	4.4	6.9	3.8	1.4	4.4	2.0	2.2
29	1.7	1.1	.98	1.1	---	2.9	6.9	3.5	1.3	1.9	1.9	1.6
30	1.4	1.1	.98	1.1	---	2.5	6.9	3.5	1.2	1.4	1.7	1.4
31	1.5	---	.98	1.1	---	2.5	---	3.3	---	1.2	1.9	---
TOTAL	60.2	37.03	33.52	34.1	30.8	60.5	177.4	150.6	56.0	57.64	107.44	57.26
MEAN	1.94	1.23	1.08	1.10	1.10	1.95	5.91	4.86	1.87	1.86	3.24	1.91
MAX.	3.2	1.7	1.4	1.1	1.1	4.8	14	8.2	3.3	4.4	15	4.6
MIN	1.3	.79	.88	1.1	1.1	1.1	1.6	3.3	1.2	.70	.61	.98
AC-FT	119	73	66	68	61	120	352	299	111	114	199	114

CAL YR 1976 TOTAL 1491.80 MEAN 4.08 MAX 26 MIN .55 AC-FT 2960
WTR YR 1977 TOTAL 855.49 MEAN 2.34 MAX 15 MIN .61 AC-FT 1700

SAN JUAN RIVER BASIN

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 (88 m) downstream from highway bridge, 0.2 mi (0.3 km) southeast of Edith, 0.5 mi (0.8 km) upstream from Colorado-New Mexico State line, and 1.3 mi (2.1 km) upstream from Coyote Creek.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--September 1912 to current year. Monthly or yearly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1943, 1945. WSP 1633: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 7,033.00 ft (2,143.658 m) above mean sea level (U.S. Bureau of Reclamation bench mark). Prior to Jan. 1, 1929, nonrecording gage at site 240 ft (73 m) upstream at different datum. June 2, 1935, to June 27, 1941, water-stage recorder at sites 200 and 240 ft (61 and 73 m) upstream at datum 2.0 ft (0.61 m) higher. June 28, 1941, to June 20, 1961, at site 50 ft (15 m) downstream at same datum.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 1,700 acres (6.88 km²) above station. High-water diversions above station into Heron Reservoir through Azotea tunnel began in March 1971.

AVERAGE DISCHARGE.--58 years (water years 1913-70), 155 ft³/s (4,390 m³/s), 112,300 acre-ft/yr (138 hm³/yr), prior to diversions through Azotea tunnel; 7 years (water years 1971-77), 62.6 ft³/s (1,773 m³/s), 45,350 acre-ft/yr (55.9 hm³/yr), subsequent to diversion through Azotea tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,840 ft³/s (80.4 m³/s) Apr. 23, 1942, gage height, 6.55 ft (1.996 m), from rating curve extended above 1,100 ft³/s (31 m³/s); minimum daily, 8.0 ft³/s (0.23 m³/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, 420 ft³/s (11.9 m³/s) Aug. 18, gage height, 4.39 ft (1.338 m); maximum gage height, 4.58 ft (1.396 m) Dec. 21 (backwater from ice); minimum daily discharge, 8.0 ft³/s (0.23 m³/s) Aug. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	36	28	14	18	22	36	95	78	21	42	34
2	42	33	24	15	18	20	34	83	56	20	39	54
3	43	33	22	16	19	20	34	71	54	20	36	57
4	42	37	22	17	19	22	32	74	56	22	29	47
5	42	32	24	16	19	22	34	80	56	29	20	48
6	40	32	24	16	20	19	39	73	49	21	12	41
7	41	33	20	18	20	22	51	69	51	18	8.0	37
8	41	32	20	17	19	24	54	68	56	20	9.5	38
9	40	31	20	15	19	26	49	63	53	19	8.5	39
10	40	31	22	18	19	26	51	66	58	20	10	41
11	39	31	22	18	20	22	47	69	52	20	15	46
12	39	31	20	19	20	22	41	78	51	16	50	79
13	39	33	19	19	20	26	40	83	48	16	59	87
14	39	32	18	19	22	30	43	97	33	19	46	65
15	39	31	18	19	22	28	42	101	39	34	169	54
16	45	28	17	19	22	30	41	97	43	76	116	51
17	42	27	17	18	24	26	41	89	52	43	95	48
18	41	30	16	18	24	22	39	83	43	43	161	46
19	37	31	15	19	24	24	45	83	42	36	160	45
20	37	29	15	19	26	30	45	76	43	37	98	43
21	37	28	15	20	26	36	42	69	36	48	66	41
22	42	27	14	20	28	39	40	63	29	64	63	40
23	42	26	14	20	26	48	42	53	24	51	63	118
24	43	25	15	20	24	47	43	74	21	66	62	71
25	41	24	15	19	24	53	38	80	24	64	62	62
26	40	26	14	17	20	45	24	61	22	110	58	57
27	37	26	14	17	22	52	24	62	30	110	56	56
28	37	26	15	17	20	53	23	76	28	81	51	56
29	39	26	14	17	---	37	16	105	29	62	32	56
30	38	28	13	17	---	33	19	121	26	53	28	53
31	37	---	14	18	---	38	---	83	---	48	31	---
TOTAL	1257	895	560	551	604	964	1149	2445	1282	1307	1755.0	1610
MEAN	40.5	29.8	18.1	17.8	21.6	31.1	38.3	78.9	42.7	42.2	56.6	53.7
MAX	56	37	28	20	28	53	54	121	78	110	169	118
MIN	37	24	13	14	18	19	16	53	21	16	8.0	34
AC-FT	2490	1780	1110	1090	1200	1910	2280	4850	2540	2590	3480	3190
CAL YR 1976	TOTAL	18589.0	MEAN 50.8	MAX 128	MIN 13	AC-FT 36870						
WTR YR 1977	TOTAL	14379.0	MEAN 39.4	MAX 169	MIN 8.0	AC-FT 28520						

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 (5 km) northwest of Carracas, 7.2 mi (11.6 km) upstream from Piedra River, and at mile 332.8 (535.5 km).

DRAINAGE AREA.--1,230 mi² (3,190 km²), approximately.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,090 ft (1,856 m), from river-profile map.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 11,000 acres (45 km²) above station. Highwater diversions above station into Rio Grande basin through Azotea tunnel (station 08284160) began in March 1971. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--9 years (water years 1962-70), 632 ft³/s (17.90 m³/s), 457,900 acre-ft/yr (565 hm³/yr), prior to completion of Azotea tunnel; 7 years (water years 1971-77), 500 ft³/s (14.16 m³/s), 362,200 acre-ft/yr (447 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,730 ft³/s (276 m³/s) Sept. 6, 1970, gage height, 8.34 ft (2.542 m), from rating curve extended above 6,000 ft³/s (170 m³/s), on basis of slope-area measurement of peak flow; minimum, about 5 ft³/s (0.1 m³/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.--Maximum discharge, 2,070 ft³/s (58.6 m³/s) Aug. 18, gage height, 4.36 ft (1.329 m), no peak above base of 2,500 ft³/s (71 m³/s); minimum daily, 56 ft³/s (1.59 m³/s) Dec. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	331	144	130	69	78	118	144	410	513	128	204	186
2	321	143	105	72	79	116	130	440	489	100	164	180
3	301	140	104	74	81	126	120	480	446	91	143	410
4	281	141	100	77	82	111	115	430	466	85	135	262
5	264	139	110	75	81	108	118	425	438	152	125	250
6	243	132	105	71	89	126	138	485	437	196	105	236
7	231	126	90	82	86	101	182	520	404	144	96	186
8	227	133	90	68	82	102	210	540	431	116	76	163
9	219	130	94	77	80	106	246	560	396	102	70	141
10	208	126	99	78	82	123	294	540	378	92	68	136
11	199	125	102	79	83	105	298	500	321	82	96	173
12	192	122	90	85	85	96	263	400	280	70	190	420
13	187	123	88	86	88	104	238	380	258	66	385	448
14	184	128	83	85	88	130	238	370	229	66	185	308
15	186	123	80	84	89	128	224	360	182	88	578	263
16	182	113	74	79	91	122	228	380	179	289	650	269
17	177	110	72	76	97	134	252	360	172	281	679	238
18	154	108	70	79	98	108	294	338	159	218	1280	212
19	154	114	70	81	105	96	334	318	141	220	854	195
20	158	116	70	82	110	104	310	299	129	127	780	182
21	176	110	64	86	112	112	260	285	118	301	732	167
22	177	108	62	88	120	122	242	272	106	388	656	164
23	174	104	62	88	105	162	235	285	98	296	571	400
24	167	97	64	87	105	182	252	315	93	289	475	291
25	166	86	66	80	100	217	270	338	107	318	426	228
26	172	84	60	73	106	199	249	312	105	370	374	204
27	165	88	64	74	115	175	249	282	112	535	324	193
28	150	88	62	75	125	242	260	292	116	429	283	191
29	149	92	56	77	---	194	290	353	111	348	255	197
30	149	120	58	81	---	135	302	460	110	279	217	171
31	145	---	61	80	---	144	---	501	---	235	206	---
TOTAL	6189	3513	2505	2448	2642	4148	6985	12230	7524	6501	11382	7064
MEAN	200	117	80.8	79.0	94.4	134	233	395	251	210	367	235
MAX	331	144	130	88	125	242	334	560	513	535	1280	448
MIN	145	84	56	68	78	96	115	272	93	66	68	136
AC-FT	12280	6970	4970	4860	5240	8230	13850	24260	14920	12890	22580	14010
CAL YR 1976	TOTAL	169854	MEAN 464	MAX 2520	MIN 56	AC-FT 336900						
WTR YR 1977	TOTAL	73131	MEAN 200	MAX 1280	MIN 56	AC-FT 145100						

SAN JUAN RIVER BASIN

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 (5 km) downstream from Ignacio Creek, 5.2 mi (8.4 km) northeast of Arboles Post Office, and 8 mi (13 km) upstream from mouth.

DRAINAGE AREA.--629 mi² (1,629 km²).

PERIOD OF RECORD.--August 1962 to current year. Gage operated 1895-99 and 1910-27 at site 7.5 mi (12.1 km) downstream at altitude 6,000 ft (1,830 m). Low-flow records probably not equivalent.

GAGE.--Water-stage recorder. Datum of gage is 6,147.52 ft (1,873.764 m) above mean sea level, from Colorado State Highway Department bench mark.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 2,800 acres (11 km²) above station.

AVERAGE DISCHARGE.--15 years, 337 ft³/s (9,544 m³/s), 244,200 acre-ft/yr (301 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,370 ft³/s (237 m³/s) Sept. 6, 1970, gage height, 5.38 ft (1.645 m) recorded, 7.55 ft (2.301 m) from floodmarks, from rating curve extended above 3,300 ft³/s (93 m³/s), on basis of slope-area measurement of peak flow; minimum, 11 ft³/s (0.31 m³/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.--Maximum discharge, 906 ft³/s (25.7 m³/s) Aug. 17, gage height, 2.94 ft (0.895 m), no peak above base of 1,500 ft³/s (42 m³/s); minimum daily, 32 ft³/s (0.91 m³/s) July 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	229	75	56	33	39	39	63	177	259	50	80	97
2	216	71	56	36	41	38	61	174	243	44	70	95
3	213	75	56	38	39	40	59	207	220	40	62	122
4	203	76	56	38	38	39	55	179	233	62	54	134
5	188	73	58	35	39	40	57	181	225	87	48	128
6	174	70	58	36	45	38	66	215	216	75	43	112
7	162	70	48	40	41	39	76	239	210	62	43	103
8	145	70	49	34	39	39	100	246	204	50	42	89
9	137	68	50	39	38	41	124	235	185	43	36	80
10	132	66	56	39	40	42	167	229	182	40	36	71
11	127	65	54	39	41	43	170	166	159	34	36	72
12	121	64	47	43	42	41	146	137	137	33	49	135
13	112	64	46	43	43	41	131	160	115	32	49	142
14	110	67	45	42	40	44	128	160	98	36	43	116
15	107	65	44	41	40	47	121	174	90	55	165	108
16	104	62	41	40	39	44	124	149	85	61	251	135
17	102	63	40	38	37	49	136	135	80	50	315	125
18	98	61	38	41	38	46	181	126	70	52	586	108
19	95	62	38	39	37	45	226	124	60	51	346	98
20	81	61	36	40	38	43	180	121	55	50	301	92
21	83	60	34	42	38	46	140	120	52	75	381	86
22	83	59	33	43	38	54	121	108	48	104	383	84
23	88	57	33	43	39	86	121	116	43	82	274	114
24	87	55	35	42	38	85	131	155	53	84	253	128
25	86	52	35	38	38	100	142	155	50	140	208	109
26	80	50	37	36	38	78	138	142	51	225	188	100
27	79	57	39	37	41	75	139	131	53	285	161	98
28	78	54	39	37	40	90	142	130	54	220	141	93
29	77	46	37	38	---	79	156	162	50	148	129	89
30	75	50	37	38	---	64	164	202	64	118	115	89
31	72	---	38	38	---	70	---	250	---	98	136	---
TOTAL	3744	1888	1369	1206	1104	1665	3765	5205	3644	2587	4974	3152
MEAN	121	62.9	44.2	38.9	39.4	53.7	126	168	121	83.5	160	105
MAX	229	76	58	43	45	100	226	250	259	285	586	142
MIN	72	46	33	33	37	38	55	108	43	32	36	71
AC-FT	7430	3740	2720	2390	2190	3300	7470	10320	7230	5130	9870	6250
CAL YR 1976	TOTAL	115854	MEAN	317	MAX	1640	MIN 33	AC-FT	229800			
WTR YR 1977	TOTAL	34303	MEAN	94.0	MAX	586	MIN 32	AC-FT	68040			

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 (18 m) upstream from Fall Creek, 0.8 mi (1.3 km) downstream from Bear Creek, 6.7 mi (10.8 km) north of Vallecito Dam, and 18 mi (29 km) north of Bayfield.

DRAINAGE AREA.--72.1 mi² (186.7 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 7,906.80 ft (2,409.773 m) above mean sea level.

REMARKS.--Records good. No diversion above station.

AVERAGE DISCHARGE.--15 years, 137 ft³/s (3,880 m³/s), 99,260 acre-ft/yr (122 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,050 ft³/s (200 m³/s) Sept. 6, 1970, gage height, 5.51 ft (1.679 m) from water-stage recorder, 6.76 ft (2.060 m) from floodmarks, from rating curve extended above 1,400 ft³/s (40 m³/s), on basis of slope-area measurement of peak flow; minimum daily, 6.7 ft³/s (0.19 m³/s) Dec. 28, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods occurred in October 1911 and June 1927.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 648 ft³/s (18.4 m³/s) Aug. 16, gage height, 2.42 ft (0.738 m), no peak above base of 1,000 ft³/s (28 m³/s); minimum daily, 6.7 ft³/s (0.19 m³/s) Dec. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	31	14	8.0	9.1	8.4	11	168	308	54	80	58
2	140	31	14	8.0	9.1	8.0	9.8	140	285	51	69	65
3	137	30	14	8.0	9.1	8.0	10	160	290	49	61	88
4	144	28	13	8.8	9.1	7.7	10	134	260	49	54	98
5	153	28	13	9.1	8.8	8.0	10	160	275	54	51	94
6	137	26	12	9.8	8.8	8.0	13	188	275	52	45	86
7	117	27	12	10	8.8	8.4	17	220	265	50	40	76
8	110	26	12	10	8.4	8.8	23	232	240	44	38	66
9	98	24	12	10	8.8	8.0	38	245	265	41	35	61
10	92	22	12	10	8.8	8.0	51	216	212	38	32	57
11	88	22	11	10	8.8	7.7	46	134	184	35	32	93
12	80	22	11	10	8.4	7.7	33	124	160	34	32	160
13	77	23	10	10	8.4	8.0	32	117	157	32	31	122
14	72	21	9.8	10	8.0	8.0	29	110	144	32	31	100
15	69	22	9.4	9.8	8.0	8.0	34	94	130	33	147	110
16	65	20	9.4	9.8	7.7	8.0	52	88	117	37	389	122
17	61	20	9.4	9.8	8.0	8.0	77	86	107	36	240	104
18	58	21	8.8	9.8	8.4	8.0	112	79	98	36	184	92
19	49	20	8.8	9.8	8.0	8.0	98	79	88	99	147	82
20	48	19	8.0	9.8	8.4	8.0	62	74	79	102	122	76
21	46	18	7.5	9.8	8.4	8.0	49	71	72	82	114	68
22	49	18	7.5	9.4	8.4	8.4	50	86	65	90	117	62
23	46	18	7.4	9.4	8.0	9.4	74	107	62	98	112	69
24	45	16	8.0	9.8	8.0	10	98	122	61	184	122	62
25	40	17	8.0	9.1	8.0	11	104	96	65	194	153	57
26	40	17	7.0	9.8	8.0	10	140	90	62	392	122	53
27	36	15	7.0	9.8	8.0	12	144	86	62	308	107	53
28	33	13	6.7	9.8	8.0	14	122	114	60	208	92	53
29	33	14	7.4	9.1	---	14	130	157	58	147	60	51
30	33	14	8.0	9.1	---	13	164	228	61	114	71	50
31	32	---	8.4	9.1	---	12	---	285	---	94	65	---
TOTAL	2378	643	306.5	294.7	235.7	282.5	1842.8	4290	4567	2869	3015	2388
MEAN	76.7	21.4	9.89	9.51	8.42	9.11	61.4	138	152	92.5	97.3	79.6
MAX	153	31	14	10	9.1	14	164	285	308	392	389	160
MIN	32	13	6.7	8.0	7.7	7.7	9.8	71	58	32	31	50
AC-FT	4720	1280	608	585	468	560	3660	8510	9060	5690	5980	4740
CAL YR 1976	TOTAL	47379.5	MEAN	129	MAX	864	MIN	6.7	AC-FT	93980		
WTR YR 1977	TOTAL	23112.2	MEAN	63.3	MAX	392	MIN	6.7	AC-FT	45840		

SAN JUAN RIVER BASIN

09352900 VALLECITO CREEK NEAR DAYFIELD, CO--Continued
(Hydrologic bench-Mark Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1962 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1962 to current year.

INSTRUMENTATION.--water-temperature recorder since November 1962.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 20.0°C July 10, 1974; minimum, freezing point on many days during winter months each year.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 16.0°C July 17; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPECIFIC CON- DUCT- ANCE (MICRO- MOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM .7UM-MF (COL./ 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA, MG)
NOV										
03...	1000	29	75	6.5	2.0	9.8	82	<1	82	34
30...	0930	12	100	6.9	.0	10.7	83	--	81	52
DEC										
27...	1000	7.0	100	--	.0	11.5	<1	<1	<1	50
JAN										
24...	0940	9.4	110	6.5	.0	10.8	<1	<1	81	47
FEB										
22...	0900	8.4	100	6.6	1.0	10.6	83	<1	<1	54
MAR										
22...	1005	8.4	100	7.3	1.0	10.8	--	--	--	53
APR										
25...	1150	112	60	7.8	3.0	10.1	<1	<1	82	31
MAY										
25...	0930	94	--	8.4	3.0	9.8	<1	<1	818	49
JUN										
29...	0915	56	100	8.1	9.0	9.0	72	81	41	25
JUL										
25...	1115	176	49	7.2	9.0	8.0	--	87	34	23
AUG										
31...	0845	67	60	7.7	8.0	8.8	4	2	14	25
SEP										
27...	1030	57	--	8.3	6.5	9.7	30	<1	2	28

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MA) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (MG/L)	CAR- BONATE (MG/L)	ALKA- LINITAS AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
NOV										
03...	11	10	2.2	1.0	.1	.5	28	0	23	13
30...	22	15	3.5	2.5	.2	.7	36	0	30	12
DEC										
27...	8	15	3.1	1.6	.1	.8	52	0	43	8.9
JAN										
24...	21	14	3.0	1.3	.1	.7	32	0	26	16
FEB										
22...	16	15	4.0	3.5	.2	.8	46	0	38	12
MAR										
22...	16	15	3.7	2.9	.2	.7	45	0	37	12
APR										
25...	15	8.4	2.5	1.8	.1	1.0	20	0	16	9.3
MAY										
25...	32	16	2.2	1.2	.1	.6	21	0	17	46
JUN										
29...	10	7.7	1.7	.9	.1	.5	20	0	16	12
JUL										
25...	8	6.9	1.5	.8	.1	.5	19	0	16	7.1
AUG										
31...	8	7.5	1.6	.9	.1	.5	21	0	17	7.3
SEP										
27...	10	8.1	1.8	.8	.1	.5	22	0	18	7.3

B BASED ON NON-IDEAL COLONY COUNT.

09352900 VALLECITO CREEK NEAR BAYFIELD, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED CHLORIDE (CL) (MG/L)	DIS- SOLVED FLUORIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (SJM OF CONSTI- TIENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MANGANESE (MN) (UG/L)
NOV										
03...	.3	.3	3.9	46	.06	3.63	.17	.01	20	0
30...	.5	.2	3.8	57	.08	1.92	.19	.01	90	10
DEC										
27...	.7	.2	4.3	62	.08	1.17	.35	.04	20	0
JAN										
24...	.6	.2	4.0	56	.08	1.43	.17	.01	10	0
FEB										
22...	.5	.2	3.9	63	.09	1.43	.17	.00	0	10
MAR										
22...	.5	.2	4.1	62	.08	1.41	.20	.00	20	0
APR										
25...	1.0	.2	3.0	38	.05	11.5	.19	.00	70	10
MAY										
25...	1.2	.2	2.9	81	.11	20.6	.15	.00	20	30
JUN										
29...	.7	.2	2.9	36	.05	5.53	--	--	20	--
JUL										
25...	.4	.2	2.8	31	.04	14.7	.21	.00	20	9
AUG										
31...	.5	.2	3.7	33	.04	6.02	.13	.01	20	0
SEP										
27...	.4	.4	3.8	35	.05	6.39	.13	.00	0	10

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (JG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (JG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (JG/L)	TOTAL SELENIUM (SE) (UG/L)
MAY									
25...	0	0	<20	<10	70	<100	20	.0	0
SEP									
27...	0	0	<10	<10	0	<100	0	.0	0

DATE	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (JG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDE GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS AS SR90 /Y90 (PC/L)	SUS- PENDE GROSS BETA AS AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	CYANIDE (CN) (MG/L)
MAY									
25...	<10	10	--	--	--	--	--	--	.00
SEP									
27...	<10	10	.6	2.7	<.4	2.2	<.4	.11	.00

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

		POLY-CHLORINATED NAPHTHALENES										
DATE	TIME	TOTAL PCB (UG/L)	TOTAL ALDRIN (JG/L)	TOTAL CHLOR-DANE (JG/L)	TOTAL DDD (UG/L)	TOTAL ODE (UG/L)	TOTAL DDT (UG/L)	TOTAL DIB-AZINOV (JG/L)	TOTAL DIB-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (JG/L)	
SEP 27...	1030	.0	.00	.00	.0	.00	.00	.00	.00	.00	.00	
		TOTAL HEPTA-CHLOR EPOXIDE										
DATE		TOTAL HEPTA-CHLOR (JG/L)	TOTAL MALATHION (JG/L)	TOTAL METHYL PARATHION (JG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (JG/L)	TOTAL 2,4-D (JG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SI-MEX (JG/L)	
SEP 27...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	

SAN JUAN RIVER BASIN

09352900 VALLECITO CREEK NEAR BAYFIELD, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
1	10.0	6.0	3.0	1.0	.0	.0	.0	.0	.0	.0	1.0	1.0
2	10.0	8.0	3.0	1.0	.0	.0	.0	.0	.0	.0	1.0	1.0
3	9.0	7.0	3.0	2.0	.0	.0	.0	.0	.0	.0	1.0	1.0
4	8.0	5.0	3.0	2.0	.0	.0	.0	.0	.0	.0	1.0	1.0
5	8.0	5.0	3.0	2.0	.0	.0	.0	.0	.0	.0	1.0	1.0
6	8.0	5.0	3.0	1.0	.0	.0	.0	.0	.0	.0	1.0	1.0
7	7.0	3.0	3.0	2.0	.0	.0	.0	.0	.0	.0	1.0	1.0
8	8.0	3.0	3.0	2.0	.0	.0	.0	.0	.0	.0	1.0	1.0
9	8.0	3.0	2.0	1.0	.0	.0	.0	.0	.0	.0	1.0	1.0
10	8.0	4.0	2.0	1.0	.0	.0	.0	.0	.0	.0	1.0	1.0
11	7.0	4.0	2.0	1.0	.0	.0	.0	.0	.0	.0	1.0	1.0
12	6.0	3.0	2.0	1.0	.0	.0	.0	.0	.0	.0	1.0	1.0
13	7.0	4.0	1.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0
14	7.0	4.0	1.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0
15	7.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0
16	7.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	1.0
17	5.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	1.0
18	5.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	1.0
19	4.0	1.0	1.0	.0	.0	.0	.0	.0	1.0	.0	3.0	1.0
20	3.0	1.0	1.0	.0	.0	.0	.0	.0	1.0	.0	3.0	1.0
21	3.0	1.0	.0	.0	.0	.0	.0	.0	1.0	.0	4.0	1.0
22	3.0	2.0	.0	.0	.0	.0	.0	.0	1.0	.0	5.0	1.0
23	4.0	3.0	1.0	.0	.0	.0	.0	.0	1.0	.0	7.0	2.0
24	4.0	3.0	.0	.0	.0	.0	.0	.0	1.0	.0	6.0	3.0
25	4.0	2.0	.0	.0	.0	.0	.0	.0	1.0	1.0	4.0	3.0
26	3.0	2.0	.0	.0	.0	.0	.0	.0	1.0	1.0	6.0	3.0
27	2.0	1.0	.0	.0	.0	.0	.0	.0	1.0	1.0	7.0	3.0
28	2.0	1.0	.0	.0	.0	.0	.0	.0	1.0	1.0	4.0	2.0
29	2.0	.0	.0	.0	.0	.0	.0	.0	---	---	3.0	2.0
30	2.0	1.0	.0	.0	.0	.0	.0	.0	---	---	4.0	2.0
31	2.0	1.0	---	---	.0	.0	.0	.0	---	---	2.0	2.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
1	3.0	2.0	7.0	4.0	10.0	5.0	13.0	10.0	14.0	8.0	12.0	9.0
2	2.0	2.0	10.0	4.0	10.0	6.0	13.0	10.0	14.0	9.0	12.0	11.0
3	3.0	2.0	7.0	3.0	9.0	6.0	12.0	9.0	13.0	9.0	12.0	9.0
4	4.0	2.0	9.0	3.0	10.0	7.0	12.0	11.0	13.0	10.0	12.0	9.0
5	8.0	2.0	9.0	2.0	10.0	6.0	11.0	9.0	13.0	11.0	12.0	9.0
6	7.0	3.0	10.0	4.0	12.0	6.0	10.0	8.0	14.0	10.0	13.0	9.0
7	5.0	3.0	9.0	2.0	10.0	7.0	12.0	8.0	13.0	9.0	14.0	9.0
8	6.0	3.0	9.0	2.0	13.0	7.0	12.0	8.0	13.0	10.0	13.0	9.0
9	6.0	3.0	11.0	3.0	10.0	8.0	12.0	9.0	13.0	10.0	12.0	9.0
10	5.0	3.0	8.0	4.0	11.0	7.0	13.0	8.0	13.0	11.0	11.0	9.0
11	5.0	4.0	7.0	2.0	11.0	7.0	12.0	9.0	12.0	10.0	10.0	10.0
12	6.0	3.0	7.0	3.0	13.0	6.0	13.0	8.0	12.0	9.0	11.0	9.0
13	6.0	5.0	6.0	4.0	14.0	6.0	13.0	12.0	12.0	11.0	11.0	6.0
14	8.0	4.0	6.0	3.0	14.0	7.0	12.0	10.0	13.0	10.0	10.0	6.0
15	7.0	4.0	6.0	3.0	14.0	7.0	11.0	9.0	13.0	11.0	10.0	8.0
16	8.0	4.0	9.0	5.0	14.0	7.0	14.0	10.0	11.0	10.0	9.0	6.0
17	8.0	3.0	8.0	4.0	15.0	8.0	16.0	11.0	11.0	10.0	9.0	6.0
18	8.0	3.0	9.0	4.0	14.0	8.0	15.0	11.0	13.0	11.0	9.0	4.0
19	6.0	5.0	7.0	2.0	13.0	8.0	15.0	11.0	13.0	9.0	10.0	5.0
20	5.0	4.0	5.0	3.0	13.0	11.0	11.0	9.0	13.0	10.0	11.0	7.0
21	9.0	3.0	9.0	2.0	12.0	9.0	10.0	9.0	12.0	9.0	9.0	6.0
22	9.0	4.0	9.0	4.0	12.0	8.0	13.0	9.0	13.0	10.0	8.0	4.0
23	9.0	5.0	10.0	4.0	12.0	10.0	12.0	9.0	13.0	10.0	9.0	7.0
24	9.0	5.0	8.0	4.0	12.0	10.0	11.0	9.0	12.0	9.0	9.0	4.0
25	8.0	3.0	6.0	3.0	12.0	10.0	14.0	9.0	13.0	10.0	9.0	5.0
26	9.0	3.0	7.0	5.0	12.0	10.0	12.0	9.0	14.0	9.0	9.0	6.0
27	7.0	3.0	10.0	4.0	11.0	10.0	10.0	8.0	13.0	10.0	8.0	6.0
28	7.0	5.0	10.0	4.0	15.0	11.0	12.0	8.0	12.0	6.0	10.0	8.0
29	9.0	4.0	11.0	4.0	12.0	9.0	13.0	8.0	12.0	7.0	10.0	7.0
30	8.0	4.0	12.0	4.0	14.0	9.0	15.0	9.0	12.0	8.0	9.0	7.0
31	---	---	12.0	4.0	---	---	14.0	8.0	11.0	8.0	---	---

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 (91 m) left of spillway, 0.4 mi (0.6 km) upstream from Jack Creek, and 11 mi (18 km) northeast of Bayfield.

PERIOD OF RECORD.--April 1941 to current year.

REVISED RECORDS.--MSP 959: 1941. MSP 1513: 1956.

GAGE.--Water-stage recorder. Datum of gage is 7,580 ft (2,310.4 m) above mean sea level (U.S. Bureau of Reclamation bench mark); gage readings have been reduced to elevations above mean sea level.

REMARKS.--Reservoir is formed by earth and rockfill dam; dam completed in March 1941. Capacity of reservoir, 126,300 acre-ft (156 hm³) between elevations 7,580 ft (2,310.4 m), sill of outlet gate, and 7,665 ft (2,336.3 m), top of spillway gates. Dead storage, 3,395 acre-ft (4.19 hm³). Figures given are usable contents. Reservoir is used to store water for irrigation in Los Pinos (Pine) River basin.

COOPERATION.--Records furnished by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 128,200 acre-ft (158 hm³) July 27, 1957, elevation, 7,665.72 ft (2,336.511 m); minimum, 1,520 acre-ft (1.87 hm³) Oct. 24, 25, 1944, elevation, 7,584.10 ft (2,311.634 m). No usable storage prior to April 1941.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 56,040 acre-ft (69.1 hm³) Oct. 10, elevation, 7,635.58 ft (2,327.325 m); minimum, 10,970 acre-ft (13.5 hm³) Sept. 23, elevation, 7,601.38 ft (2,316.901 m).

MONTHEND ELEVATION AND CONTENTS AT 0900, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	7,634.82	54,550	-
Oct. 31.	7,633.58	52,160	-2,390
Nov. 30.	7,631.63	48,530	-3,630
Dec. 31.	7,631.28	47,890	-540
CAL YR 1976	-	-	-4,160
Jan. 31.	7,630.98	47,340	-550
Feb. 28.	7,630.90	47,200	-140
Mar. 31.	7,631.16	47,670	+470
Apr. 30.	7,632.91	50,900	+3,230
May 31.	7,625.99	38,830	-12,070
June 30.	7,617.41	26,650	-12,180
July 31.	7,611.18	19,560	-7,090
Aug. 31.	7,606.50	15,080	-4,480
Sept. 30.	7,601.49	11,050	-4,030
WTR YR 1977	-	-	-43,500

SAN JUAN RIVER BASIN

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 (0.6 km) upstream from Jack Creek, 2.0 mi (3.2 km) upstream from Red Creek, and 11 mi (18 km) north of Bayfield.

DRAINAGE AREA.--270 mi² (700 km²), 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 (2,311.158 m) above mean sea level (U.S. Bureau of Reclamation bench mark). See WSP 1713 or 1733 for history of changes prior to Aug. 18, 1956.

REMARKS.--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 (see elsewhere in this report).

AVERAGE DISCHARGE (REVISED).--13 years (water years 1928-40), 345 ft³/s (9.770 m³/s), 250,000 acre-ft/yr (308 mm³/yr), prior to completion of Vallecito Reservoir; 37 years (water years 1941-77), 348 ft³/s (9.855 m³/s), 252,100 acre-ft/yr (311 mm³/yr), subsequent to completion of Vallecito Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,800 ft³/s (391 m³/s) July 27, 1957, gage height, 12.2 ft (3.72 m), from floodmarks at supplementary gage, from rating curve extended above 2,500 ft³/s (71 m³/s), on basis of slope-area measurement of peak flow (result of automatic spillway gates releasing from Vallecito Reservoir); minimum daily, 3.2 ft³/s (0.091 m³/s) Feb. 11, 1951 (result of storage in Vallecito Reservoir); minimum daily prior to construction of Vallecito Reservoir, 38 ft³/s (1.08 m³/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, 599 ft³/s (17.0 m³/s) May 13-14, gage height, 1.96 ft (0.597 m); minimum daily, 26 ft³/s (0.74 m³/s) Apr. 12-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	189	240	55	55	57	36	36	208	452	414	115	280
2	192	240	55	55	57	36	36	226	469	401	120	275
3	192	240	55	55	57	36	36	298	478	385	120	283
4	192	240	55	55	57	36	36	302	482	392	120	283
5	192	240	55	55	57	36	36	329	482	443	161	283
6	192	240	55	55	57	36	36	392	456	443	274	279
7	192	240	55	55	57	36	36	418	443	438	325	279
8	192	207	55	55	58	36	36	427	443	430	351	272
9	192	142	55	55	58	36	36	452	462	374	385	279
10	192	142	55	55	58	36	36	511	518	337	389	279
11	192	142	55	55	46	36	30	560	536	334	385	283
12	192	88	55	55	36	36	26	575	541	334	381	287
13	192	88	55	55	36	36	26	589	556	314	365	291
14	192	88	55	55	36	36	26	589	556	297	353	291
15	213	88	55	55	36	36	26	560	551	287	329	264
16	226	88	55	55	36	36	34	556	556	283	297	244
17	226	88	55	55	36	36	67	546	551	279	279	244
18	246	88	55	55	36	36	106	541	546	287	251	244
19	258	88	55	55	36	36	134	541	551	276	250	254
20	258	88	55	55	36	36	128	536	546	202	258	258
21	258	88	55	55	36	36	105	536	516	202	258	254
22	258	88	55	55	36	36	106	536	496	199	258	219
23	258	83	55	55	36	36	143	532	491	182	229	134
24	258	75	55	55	36	36	161	532	434	150	212	128
25	193	75	55	57	36	36	161	541	405	126	212	126
26	124	75	55	57	36	36	161	546	401	120	212	126
27	244	75	55	57	36	36	172	514	414	115	212	115
28	244	75	55	57	36	36	192	474	393	105	212	123
29	240	68	55	57	---	36	205	465	393	108	253	118
30	240	55	55	57	---	36	208	454	397	108	275	95
31	240	---	55	57	---	36	---	422	---	108	292	---
TOTAL	6669	3862	1705	1719	1231	1116	2577	14708	14515	8473	8143	6890
MEAN	215	129	55.0	55.5	44.0	36.0	85.9	474	484	273	253	230
MAX	258	240	55	57	58	36	208	589	556	443	389	291
MIN	124	55	55	55	36	36	26	208	393	105	115	95
AC-FT	13230	7660	3380	3410	2440	2210	5110	29170	28790	16810	16150	13670
CAL YR 1976	TOTAL	118808	MEAN	325	MAX	1460	MIN	31	AC-FT	235700		
WTR YR 1977	TOTAL	71608	MEAN	196	MAX	589	MIN	26	AC-FT	142000		

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 (0.2 km) upstream from Spring Creek, and 13 mi (21 km) upstream from mouth.

DRAINAGE AREA.--510 mi² (1,320 km²), approximately.

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733.

GAGE.--Water-stage recorder. Datum of gage is 6,143.58 ft (1,872.563 m) above mean sea level.

REMARKS.--Records good except those for winter period, which are poor. Flow regulated by Vallecito Reservoir (station 09353000) 24 mi (39 km) upstream since April 1941. Diversions for irrigation of about 33,000 acres (130 km²) above station.

AVERAGE DISCHARGE.--27 years, 201 ft³/s (5.692 m³/s), 145,600 acre-ft/yr (180 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,400 ft³/s (181 m³/s) July 27, 1957, gage height, 3.95 ft (2.728 m), from rating curve extended above 5,100 ft³/s (140 m³/s); minimum daily, 6.1 ft³/s (0.17 m³/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, 948 ft³/s (26.8 m³/s) July 26, gage height, 5.44 ft (1.658 m); minimum daily, 6.1 ft³/s (0.17 m³/s) May 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	340	249	70	40	40	37	41	6.1	64	75	60	67
2	310	251	70	38	40	35	47	6.5	64	70	51	74
3	300	254	69	36	39	41	49	11	65	61	45	78
4	290	269	69	36	38	55	45	10	67	73	40	83
5	280	261	73	33	37	53	46	9.2	64	85	35	79
6	270	257	74	33	37	51	44	8.7	67	75	37	73
7	260	256	64	32	37	56	42	12	66	71	41	70
8	240	255	62	33	38	54	42	14	58	72	46	69
9	225	180	65	31	38	52	41	17	58	65	39	68
10	220	162	64	30	39	53	42	19	60	62	44	64
11	210	155	49	29	39	49	42	24	59	52	48	77
12	200	152	47	30	39	48	39	27	63	53	54	101
13	190	105	45	31	40	49	32	56	68	48	94	94
14	180	110	45	32	42	47	30	97	64	58	63	69
15	175	110	43	32	42	43	29	120	60	56	206	79
16	170	105	46	33	42	47	28	89	64	117	148	71
17	165	97	45	34	43	44	28	71	67	79	218	70
18	160	93	46	36	43	44	37	65	69	77	192	62
19	150	91	46	38	44	42	23	65	67	123	103	65
20	140	86	46	40	45	42	42	65	75	119	85	65
21	140	85	46	40	46	41	34	71	81	172	96	58
22	135	82	47	41	46	41	18	76	79	190	100	54
23	140	81	47	43	40	41	13	67	84	130	88	57
24	135	76	47	43	40	41	17	66	104	188	77	49
25	135	73	48	40	39	43	13	85	105	224	77	44
26	140	72	49	39	35	44	12	85	99	336	70	54
27	186	72	50	38	36	42	11	90	99	148	70	52
28	232	84	52	38	34	41	13	79	102	95	66	56
29	257	63	50	38	---	39	8.9	75	100	89	53	53
30	258	84	48	39	---	40	6.4	72	92	78	59	66
31	253	---	51	40	---	42	---	64	---	69	67	---
TOTAL	6486	4270	1673	1116	1118	1397	915.3	1622.5	2234	3210	2492	2021
MEAN	209	142	54.0	36.0	39.9	45.1	30.5	52.3	74.5	104	80.4	67.4
MAX	340	269	74	43	46	56	49	120	105	336	218	101
MIN	135	63	43	29	34	35	6.4	6.1	58	48	35	44
AC-FT	12860	8470	3320	2210	2220	2770	1820	3220	4430	6370	4940	4010
CAL YR 1976	TOTAL	63609.0	MEAN	174	MAX	1070	MIN	43	AC-FT	126200		
WTR YR 1977	TOTAL	28554.8	MEAN	78.2	MAX	340	MIN	6.1	AC-FT	56640		

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 (0.3 km) upstream from mouth, and 0.2 mi (0.3 km) east of La Boca.

DRAINAGE AREA.--58 mi² (150 km²), approximately.

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733.

GAGE.--Water-stage recorder. Altitude of gage is 6,160 ft (1,878 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Part of flow is return waste from irrigation.

AVERAGE DISCHARGE.--27 years, 29.5 ft³/s (0.835 m³/s), 21,370 acre-ft/yr (26.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,980 ft³/s (56.1 m³/s) Sept. 6, 1970, gage height, 4.62 ft (1.408 m), from rating curve extended above 160 ft³/s (4.53 m³/s), on basis of field estimate of peak flow; maximum gage height, 5.98 ft (1.823 m) Mar. 9, 1960 (backwater from ice); minimum discharge, 0.6 ft³/s (0.017 m³/s) Nov. 27, 1959.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 180 ft³/s (5.1 m³/s) and maximum(*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Aug. 17	0400	*272 7.70	2.00 0.610				

Minimum daily discharge, 1.8 ft³/s (0.051 m³/s) Jan. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	7.6	3.4	2.5	2.7	3.0	2.9	11	17	25	21	13
2	54	6.7	3.2	2.5	2.5	2.6	3.3	10	19	23	21	9.3
3	52	6.3	3.3	2.4	2.6	4.9	3.5	9.1	21	22	20	10
4	46	6.7	3.1	2.4	2.7	4.8	3.3	17	22	27	20	23
5	42	5.9	3.5	2.4	2.7	4.1	3.3	15	22	32	20	21
6	42	5.5	3.4	2.4	2.6	7.7	3.1	16	24	33	20	17
7	35	5.5	2.9	2.5	2.5	5.2	3.0	17	23	30	20	19
8	32	5.1	2.9	2.5	2.4	4.9	3.0	19	26	25	20	18
9	31	4.7	3.1	2.2	2.5	5.1	2.9	19	23	24	20	13
10	32	4.7	2.4	2.1	2.5	4.4	2.9	18	24	17	20	17
11	30	4.7	2.4	1.9	2.6	4.5	2.9	21	23	12	21	31
12	29	4.7	2.4	1.8	2.5	4.7	2.9	23	24	12	26	58
13	29	4.7	2.3	2.0	2.5	4.2	2.8	38	24	12	24	54
14	34	4.7	2.3	2.0	2.6	3.9	2.8	50	21	14	24	46
15	32	4.7	2.2	2.0	2.6	4.8	2.4	45	20	9.1	61	48
16	31	4.7	2.2	2.1	2.7	3.8	2.3	37	20	23	53	51
17	32	4.6	2.2	2.0	2.7	3.3	2.4	29	21	8.8	118	51
18	31	4.4	2.2	2.0	2.8	4.0	2.2	29	24	7.2	73	48
19	30	4.2	2.3	2.2	2.8	4.9	2.9	35	25	9.7	40	48
20	31	4.0	2.3	2.3	2.8	4.0	3.9	38	25	9.0	42	48
21	31	3.8	2.3	2.4	2.8	3.7	2.9	37	23	36	54	47
22	30	3.9	2.3	2.5	2.7	3.5	3.3	32	25	32	47	51
23	18	3.8	2.3	2.6	2.6	3.3	2.9	33	26	21	46	52
24	11	3.5	2.3	2.7	3.4	3.3	5.7	35	32	27	39	26
25	9.8	3.4	2.4	2.6	4.0	3.3	25	40	34	24	26	24
26	7.9	3.4	2.4	2.5	2.7	3.2	7.1	42	32	30	18	24
27	7.6	3.3	2.5	2.3	2.7	3.2	5.0	37	29	24	18	23
28	7.1	4.0	2.5	2.4	2.7	3.1	5.2	34	28	23	18	16
29	7.8	3.0	2.3	2.4	---	2.6	9.1	32	27	23	16	9.5
30	7.2	4.0	2.2	2.4	---	2.6	12	29	27	21	14	8.5
31	7.4	---	2.5	2.4	---	3.0	---	23	---	21	14	---
TOTAL	875.8	140.2	80.0	71.4	75.9	123.6	163.0	876.1	731	656.8	994	924.3
MEAN	28.3	4.67	2.58	2.30	2.71	3.99	5.43	28.3	24.4	21.2	32.1	30.8
MAX	56	7.6	3.5	2.7	4.0	7.7	29	56	34	36	118	58
MIN	7.1	3.0	2.2	1.8	2.4	2.6	2.2	9.1	17	7.2	14	8.5
AC-FT	1740	278	159	142	151	245	323	1740	1450	1300	1970	1830
CAL YR 1976	TOTAL	13366.4	MEAN	36.5	MAX	222	MIN	2.2	AC-FT	26510		
WTR YR 1977	TOTAL	5712.1	MEAN	15.6	MAX	118	MIN	1.8	AC-FT	11330		

09357500 ANIMAS RIVER AT HOWARDSVILLE, CO

LOCATION.--Lat 37°49'59", long 107°35'56", San Juan County, Hydrologic Unit 14080104, on right bank 1,000 ft (300 m) downstream from bridge on State Highway 110, 0.4 mi (0.6 km) southwest of Howardsville, and 0.4 mi (0.6 km) downstream from Cunningham Creek.

DRAINAGE AREA.--55.9 mi² (145 km²).

PERIOD OF RECORD.--October 1935 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 9,616.98 ft (2,931.256 m) above mean sea level. Prior to Aug. 18, 1939, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good except those for winter period, which are fair. No diversion above station.

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

AVERAGE DISCHARGE.--42 years, 101 ft³/s (2,860 m³/s), 73,170 acre-ft/yr (90.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,980 ft³/s (56.1 m³/s) June 18, 1949, gage height, 4.36 ft (1.329 m), from rating curve extended above 950 ft³/s (27 m³/s); maximum gage height, 5.24 ft (1.597 m) Feb. 18, 1958 (backwater from snowslide); minimum daily discharge, 9.0 ft³/s (0.25 m³/s) Jan. 10, 1957, Feb. 15, Mar. 9, 1964, Feb. 13, 1965.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 455 ft³/s (12.9 m³/s) June 8, gage height, 2.65 ft (0.808 m), no peak above base of 700 ft³/s (20 m³/s); minimum daily, 10 ft³/s (0.28 m³/s) Mar. 16-22, Mar. 29 to Apr. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	20	16	14	13	11	10	102	281	45	49	38
2	39	20	16	14	13	11	10	95	241	44	44	45
3	43	20	16	13	13	11	10	114	250	40	41	49
4	43	20	16	13	13	11	10	114	238	41	39	66
5	40	20	15	12	12	11	10	126	257	45	37	56
6	38	20	15	12	11	11	11	145	285	41	34	51
7	35	20	15	11	11	11	13	170	278	37	33	45
8	34	20	15	12	11	11	15	190	317	35	32	43
9	33	20	15	12	11	11	18	240	257	33	30	39
10	33	19	15	13	11	11	22	199	223	32	29	39
11	31	19	15	14	11	11	24	136	193	31	30	45
12	29	19	15	14	11	11	23	124	182	30	30	51
13	29	20	15	14	12	11	22	112	178	30	27	47
14	29	20	15	15	12	11	21	95	162	30	27	44
15	29	20	15	15	12	11	22	81	150	30	64	63
16	28	19	15	15	12	10	24	80	140	33	92	63
17	27	19	15	15	12	10	39	69	130	30	72	57
18	26	19	14	15	12	10	56	62	114	30	71	51
19	24	19	14	15	12	10	43	56	102	66	62	49
20	24	19	14	15	12	10	29	54	92	49	57	45
21	23	19	14	15	12	10	27	52	83	43	54	43
22	24	19	14	15	12	10	29	57	74	41	51	43
23	24	18	14	15	12	11	47	73	68	54	47	43
24	24	18	14	14	12	11	68	86	68	62	54	38
25	23	18	14	14	11	11	92	81	66	66	62	36
26	23	18	14	14	11	11	110	78	63	71	52	37
27	23	17	14	14	11	11	110	71	60	85	52	37
28	22	16	14	14	11	11	80	85	57	108	49	34
29	22	15	14	14	---	10	78	135	52	80	45	33
30	21	16	14	14	---	10	90	214	49	68	43	32
31	21	---	14	13	---	10	---	268	---	56	40	---
TOTAL	903	566	455	429	329	331	1163	3564	4710	1486	1449	1362
MEAN	29.1	18.9	14.7	13.8	11.8	10.7	38.8	115	157	47.9	45.7	45.4
MAX	43	20	16	15	13	11	110	268	317	108	92	66
MIN	21	15	14	11	11	10	10	52	49	30	27	32
AC-FT	1790	1120	902	851	653	657	2310	7070	9340	2950	2870	2700

CAL YR 1976 TOTAL 29595 MEAN 80.9 MAX 600 MIN 14 AC-FT 58700
WTR YR 1977 TOTAL 16747 MEAN 45.9 MAX 317 MIN 10 AC-FT 33220

NOTE.--NO GAGE-HEIGHT RECORD DEC. 14 TO APR. 14.

SAN JUAN RIVER BASIN

09361000 HERMOSA CREEK NEAR HERMOSA, CO

LOCATION.--Lat 37°25'19", long 107°50'40", in NE¼NW¼ sec.3, T.36 N., R.9 W., La Plata County, Hydrologic Unit 14080104, on right bank 20 ft (6 m) downstream from private bridge, 0.8 mi (1.3 km) northwest of Hermosa, and 2.2 mi (3.5 km) upstream from mouth.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--November and December 1911 (gage heights and discharge measurements only), January 1912 to September 1914, October 1919 to September 1928, October 1939 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1313: 1927(M).

GAGE.--Water-stage recorder. Datum of gage is 6,705.88 ft (2,043.952 m) above mean sea level. Prior to September 1914, nonrecording gage, and April 1920 to September 1928, water-stage recorder (nonrecording gage for short periods), within 0.5 mi (0.8 km) at different datums.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of a few hay meadows above station.

AVERAGE DISCHARGE.--49 years (water years 1913-14, 1920-28, 1940-77), 134 ft³/s (3.795 m³/s), 97,087 acre-ft/yr (120 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,980 ft³/s (84.4 m³/s) May 12, 1941, gage height, 6.02 ft (1.835 m); maximum gage height, 8.50 ft (2.591 m) Sept. 12, 1927, from floodmarks, site and datum then in use; minimum daily discharge, 4.0 ft³/s (0.11 m³/s) Dec. 9, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 77 ft³/s (2.18 m³/s) Apr. 19, gage height, 1.05 ft (0.320 m), no peak above base of 800 ft³/s (23 m³/s); minimum daily, 7.0 ft³/s (0.20 m³/s) Dec. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	17	12	8.0	9.0	11	12	52	48	9.8	19	14
2	43	17	13	8.5	9.5	10	13	42	45	9.4	18	14
3	50	18	12	9.0	9.5	10	12	55	43	9.0	16	19
4	48	17	12	9.0	9.5	10	11	42	43	9.8	16	16
5	44	16	13	8.5	10	11	12	46	40	12	15	16
6	41	16	12	8.5	11	9.0	14	50	38	12	14	14
7	37	17	10	9.5	10	10	16	50	36	11	12	13
8	36	16	11	8.0	9.0	12	26	51	35	9.0	11	12
9	35	16	11	9.0	9.5	13	37	51	34	8.7	9.8	12
10	34	15	12	9.0	9.5	12	50	50	33	8.1	10	12
11	32	16	12	9.0	10	11	43	36	29	7.5	10	16
12	30	15	11	10	10	10	30	34	26	8.1	11	20
13	27	16	10	10	10	12	26	35	23	9.1	10	18
14	29	16	10	10	10	14	26	37	22	7.2	9.8	16
15	29	16	10	9.5	10	12	28	31	20	7.2	17	17
16	28	16	9.0	9.5	11	14	35	34	19	7.8	35	19
17	27	15	9.0	9.5	11	12	47	36	18	8.1	32	16
18	27	14	8.5	9.5	12	11	63	36	17	7.8	25	15
19	23	14	8.5	9.5	12	11	61	31	15	21	20	14
20	22	14	8.0	9.5	13	12	40	29	14	29	18	14
21	22	14	7.5	10	13	12	30	25	13	29	17	13
22	21	14	7.5	10	14	12	29	27	13	26	16	14
23	22	14	7.5	10	12	12	36	34	13	25	16	14
24	21	14	8.0	10	12	14	43	39	13	27	19	13
25	20	13	8.0	9.0	11	14	36	36	14	27	26	13
26	19	14	7.5	8.5	9.0	14	38	34	14	42	21	13
27	19	14	8.0	8.5	11	13	36	32	13	37	20	14
28	18	12	7.5	9.0	9.5	14	43	34	12	33	18	14
29	16	11	7.0	9.0	---	14	47	43	11	27	16	14
30	17	12	7.5	9.0	---	14	47	49	11	23	15	13
31	18	---	7.5	9.0	---	13	---	50	---	21	14	---
TOTAL	900	449	297.5	285.0	297.0	373.0	987	1231	725	528.6	526.6	442
MEAN	29.0	15.0	9.60	9.19	10.6	12.0	32.9	39.7	24.2	17.1	17.0	14.7
MAX	50	18	13	10	14	14	63	55	48	42	35	20
MIN	16	11	7.0	8.0	9.0	9.0	11	25	11	7.2	9.8	12
AC-FT	1790	891	590	565	589	740	1960	2440	1440	1050	1040	877

CAL YR 1976 TOTAL 32847.5 MEAN 89.7 MAX 710 MIN 7.0 AC-FT 65150
WTR YR 1977 TOTAL 7041.7 MEAN 19.3 MAX 63 MIN 7.0 AC-FT 13970

NOTE.--NO GAGE-HEIGHT RECORD NOV. 28 TO MAR. 3.

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 (1.3 km) upstream from Lightner Creek.

DRAINAGE AREA.--692 mi² (1,792 km²).

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 (1,981.679 m) above mean sea level. See WSP 1713 or 1733 for history of changes prior to Mar. 2, 1921.

REMARKS.--Records good. Diversions for irrigation of about 4,000 acres (16 km²) above station. Natural regulation by many lakes and regulation for power above station.

AVERAGE DISCHARGE.--72 years (water years 1897-1900, 1905, 1911-77), 832 ft³/s (23.56 m³/s), 602,800 acre-ft/yr (743 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft³/s (708 m³/s) Oct. 5, 1911, gage height, 11 ft (3.4 m), present site and datum; from rating curve extended above 13,000 ft³/s (370 m³/s); minimum daily, 94 ft³/s (2.66 m³/s) Mar. 2, 1913.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,460 ft³/s (41.3 m³/s) June 7, gage height, 3.68 ft (1.142 m), no peak above base of 4,000 ft³/s (110 m³/s); minimum daily, 129 ft³/s (3.65 m³/s) Mar. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	458	218	171	165	147	143	149	429	1110	262	362	332
2	422	234	175	159	143	143	151	408	1150	250	305	315
3	422	221	173	159	143	141	153	466	1070	234	266	387
4	429	212	175	163	141	141	143	450	1030	246	246	422
5	436	212	169	147	143	137	143	466	1040	270	234	429
6	415	212	169	157	143	135	141	522	1110	275	221	387
7	394	209	173	163	139	135	147	594	1200	266	209	368
8	362	203	171	155	143	141	153	691	1160	250	203	326
9	344	203	178	155	143	137	171	800	1220	234	200	300
10	332	206	178	151	143	137	218	960	1040	224	200	295
11	315	206	175	157	145	137	250	664	920	212	198	305
12	305	198	167	157	147	135	218	514	820	215	203	362
13	285	198	169	153	143	135	185	482	770	206	200	394
14	280	198	173	153	145	135	185	482	730	200	198	356
15	270	198	173	151	145	135	188	415	655	198	234	356
16	266	195	173	151	145	134	206	387	610	215	836	450
17	258	192	175	143	145	134	246	374	578	209	910	422
18	254	190	182	149	147	132	350	362	530	203	770	387
19	250	190	171	149	147	132	368	344	474	269	720	356
20	246	198	169	151	147	130	285	320	429	466	628	344
21	246	195	171	151	145	129	230	300	401	374	578	315
22	250	190	167	153	147	130	227	290	368	356	530	295
23	275	182	165	143	149	130	246	310	344	344	506	295
24	254	180	165	141	147	132	310	368	332	374	514	285
25	234	180	163	147	149	132	344	387	332	450	610	258
26	254	182	159	145	147	134	374	368	320	664	602	250
27	266	190	163	145	145	137	436	350	326	770	514	250
28	262	175	169	145	143	145	401	344	315	730	474	250
29	254	163	163	147	---	149	394	401	290	637	422	246
30	242	171	169	139	---	143	374	578	285	514	387	230
31	240	---	165	139	---	145	---	870	---	436	356	---
TOTAL	9520	5901	5278	4683	4056	4235	7386	14696	20959	10553	12936	9967
MEAN	307	197	170	151	145	137	246	474	699	340	414	332
MAX	458	234	182	165	149	149	436	960	1220	770	910	450
MIN	234	163	159	139	139	129	141	290	285	198	198	230
AC-FT	18880	11700	10470	9290	8050	8400	14650	29150	41570	20930	25460	19770
CAL YR 1976 TOTAL	227507				3580	159		451300				
WTR YR 1977 TOTAL	110070				1220	129		218300				

09363050 FLORIDA RIVER BELOW FLORIDA FARMERS DITCH, NEAR DURANGO, CO

LOCATION.--Lat 37°17'42", long 107°47'28", in SW¼SW¼ sec.18, T.35 N., R.8 W., La Plata County, Hydrologic Unit 14080104, on right bank 30 ft (9 m) downstream from diversion dam for Florida Farmers ditch and 4.0 mi (6.4 km) east of Riverview School in Durango.

DRAINAGE AREA.--108 mi² (280 km²).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7,065.35 ft (2,153.519 m) above mean sea level (levels by U.S. Bureau of Reclamation).

REMARKS.--Records good except those for winter period, which are poor. Flow regulated by Lemon Reservoir, capacity, 40,100 acre-ft (49.4 hm³). Diversions above station for irrigation above and below station and for municipal supply of Durango.

AVERAGE DISCHARGE.--10 years, 33.8 ft³/s (0.9572 m³/s), 24,490 acre-ft/yr (30.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,100 ft³/s (31.2 m³/s) May 19, 1973, gage height, 5.70 ft (1.737 m); minimum daily, 0.70 ft³/s (0.020 m³/s) Oct. 14, 1968, Oct. 17, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 61 ft³/s (1.73 m³/s) Oct. 17, gage height, 2.56 ft (0.780 m); minimum daily, 0.90 ft³/s (0.025 m³/s) Apr. 15-17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	7.2	1.2	4.6	3.8	3.9	4.8	2.7	7.1	4.3	2.7	6.0
2	7.2	7.2	1.4	4.2	3.8	3.0	5.0	2.7	12	4.3	3.0	6.0
3	7.2	8.7	5.0	4.2	3.6	2.7	5.0	3.9	13	4.3	3.0	6.0
4	7.2	8.7	4.8	4.2	3.4	3.5	4.7	5.2	13	4.3	3.0	5.8
5	7.2	8.7	4.6	4.2	3.4	3.7	5.2	5.2	13	4.8	3.7	5.8
6	7.2	8.7	4.4	4.0	3.4	3.9	5.2	5.2	4.6	4.6	4.1	5.5
7	7.2	8.7	4.6	4.2	3.6	4.8	5.2	5.0	3.5	4.1	4.1	4.8
8	7.2	8.7	4.6	4.2	3.8	4.3	5.2	5.2	3.2	5.0	4.3	4.8
9	7.5	8.7	4.6	3.8	4.0	4.1	5.0	5.2	3.5	6.5	4.8	4.6
10	7.2	7.2	4.6	3.8	4.2	4.1	5.0	5.2	4.1	7.2	5.0	4.6
11	7.5	7.2	4.6	4.0	4.4	3.5	2.9	5.2	4.6	6.8	4.8	4.0
12	7.5	7.0	4.6	4.0	4.6	3.9	1.0	5.2	4.6	6.0	4.6	4.1
13	7.2	7.0	4.4	4.0	4.6	4.4	1.0	5.2	4.6	6.5	4.3	3.7
14	5.5	6.8	4.6	4.0	4.6	5.0	1.0	5.2	4.6	6.2	4.6	3.7
15	5.2	6.8	4.6	4.0	4.8	4.4	.90	4.8	4.3	6.5	4.6	4.1
16	5.0	7.2	4.6	3.8	4.6	4.8	.90	4.3	4.6	6.5	4.1	6.5
17	16	7.0	4.6	3.8	4.6	4.4	.90	4.3	5.0	6.5	3.2	6.5
18	13	6.5	4.8	3.8	4.6	4.0	1.0	4.3	4.1	6.8	3.2	6.5
19	9.1	6.2	4.8	3.8	4.6	4.0	1.0	4.3	4.1	7.0	3.7	6.5
20	8.7	6.0	4.6	4.0	4.6	4.4	1.0	4.3	4.1	6.2	3.7	6.2
21	8.3	6.2	4.4	4.2	4.6	5.0	1.8	4.3	4.3	6.2	3.9	4.6
22	8.7	6.2	4.4	4.2	4.3	6.5	3.0	4.6	4.1	5.5	4.3	3.2
23	8.3	6.2	4.4	4.0	4.8	6.5	2.8	4.6	4.1	4.8	5.0	3.2
24	8.3	6.0	4.4	3.8	4.8	6.5	2.8	4.6	3.9	4.8	5.0	3.2
25	7.9	5.8	4.4	3.8	3.5	6.0	2.7	4.6	3.7	4.1	5.0	3.0
26	7.5	4.6	4.2	3.8	2.8	6.0	2.7	4.6	3.7	3.0	5.0	3.0
27	7.5	3.6	4.2	3.8	3.5	6.0	2.5	4.3	4.6	2.5	5.0	3.0
28	7.5	1.6	4.6	3.8	3.5	5.5	2.5	4.3	4.3	2.5	4.8	2.8
29	7.5	1.2	4.2	3.8	---	4.8	2.5	4.1	3.9	2.4	5.0	2.8
30	7.5	1.0	4.2	3.4	---	5.0	2.5	4.1	4.1	2.4	5.5	2.8
31	7.2	---	4.6	3.6	---	5.2	---	5.0	---	2.5	6.0	---
TOTAL	243.2	192.6	134.0	122.8	114.8	143.8	87.70	141.7	162.3	155.1	133.0	137.9
MEAN	7.85	6.42	4.32	3.96	4.10	4.64	2.92	4.57	5.41	5.00	4.29	4.60
MAX	16	8.7	5.0	4.6	4.8	6.5	5.2	5.2	13	7.2	6.0	6.5
MIN	5.0	1.0	1.2	3.4	2.8	2.7	.90	2.7	3.2	2.4	2.7	2.8
AC-FT	482	382	266	244	228	285	174	281	322	308	264	274
CAL YR 1976	TOTAL	4626.40	MEAN	12.6	MAX	110	MIN	1.0	AC-FT	9180		
WTR YR 1977	TOTAL	1768.90	MEAN	4.85	MAX	16	MIN	.90	AC-FT	3510		

09363100 SALT CREEK NEAR OXFORD, CO

LOCATION.--Lat 37°08'23", long 107°45'10", in NE¼NE¼ sec.6, T.33 N., R.8 W., La Plata County, Hydrologic Unit 14080104, on right bank 2.9 mi (4.7 km) upstream from mouth, 3.0 mi (4.8 km) southwest of Oxford, and 11 mi (18 km) southeast of Durango.

DRAINAGE AREA.--16.7 mi² (43.3 km²).

PERIOD OF RECORD.--October 1956 to September 1963, October 1967 to current year.

REVISED RECORDS.--WSP 1925: 1960.

GAGE.--Water-stage recorder. Altitude of gage is 6,470 ft (1,972 m), from topographic map. Prior to October 1967, at site 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records good except those for winter period, which are poor. Most of flow is return flow from areas irrigated by water imported from Los Pinos River.

AVERAGE DISCHARGE.--17 years, 11.9 ft³/s (0.3370 m³/s), 8,620 acre-ft/yr (10.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 811 ft³/s (23.0 m³/s) Oct. 19, 1972, gage height, 5.24 ft (1.597 m), from rating curve extended above 200 ft³/s (5.7 m³/s), on basis of slope-area measurements at gage heights 3.54 and 5.24 ft (1.079 and 1.597 m); no flow at times in 1959-60, 1962, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 51 ft³/s (1.44 m³/s) July 24, gage height, 2.63 ft (0.802 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	7.6	.60	.10	.30	.50	.17	.04	5.3	1.7	.32	1.9
2	4.0	6.9	.50	.10	.30	.50	.25	.03	4.1	1.3	.01	2.7
3	4.5	6.4	.50	.10	.30	.50	.36	.03	6.3	.88	.30	3.0
4	7.1	5.4	.50	.10	.30	.50	.36	.02	5.4	1.2	.30	2.3
5	8.3	4.9	.50	.10	.40	.50	.25	.01	5.3	1.7	.30	1.7
6	9.5	4.7	.50	.10	.40	.43	.21	5.1	5.1	1.8	.00	3.5
7	9.5	4.5	.45	.10	.40	.57	.19	1.4	4.2	2.3	.30	4.4
8	9.5	4.3	.50	.10	.40	.64	.17	2.0	4.1	2.8	.30	3.0
9	9.1	4.2	.50	.10	.40	.96	.13	3.8	2.9	2.9	.30	2.7
10	8.8	4.5	.45	.10	.40	.80	.13	3.8	2.9	3.2	.30	3.3
11	8.3	4.3	.40	.20	.40	.43	.13	3.8	4.4	2.9	.16	2.4
12	8.0	4.5	.40	.20	.40	.50	.11	5.7	5.3	3.9	.01	.80
13	8.0	4.3	.42	.20	.40	.50	.09	9.3	5.3	3.5	.30	.21
14	7.8	3.6	.39	.20	.40	.43	.07	22	4.1	4.2	.30	.07
15	7.8	3.4	.36	.20	.40	.36	.05	25	5.1	4.6	2.5	.07
16	8.3	3.0	.30	.20	.50	.36	.05	13	3.8	13	.37	.09
17	8.8	2.8	.27	.20	.50	.36	.04	9.6	4.2	6.8	.03	.09
18	7.8	3.0	.42	.20	.50	.25	.04	9.3	4.4	6.3	.01	.05
19	13	2.8	.10	.20	.50	.25	.05	9.6	4.1	20	.04	.03
20	36	2.7	.06	.20	.60	.25	.05	10	3.8	12	.34	.01
21	28	2.1	.03	.30	.60	.25	.07	11	4.6	6.3	.04	.00
22	27	2.2	.00	.30	.60	.30	.05	9.3	4.7	4.4	.04	.00
23	30	2.2	.00	.30	.50	.43	.04	7.2	4.9	3.3	.04	.00
24	26	2.1	.00	.30	.50	.43	.04	7.5	6.1	9.5	.01	.00
25	21	2.1	.00	.30	.50	.50	.04	10	4.7	3.5	.17	.00
26	14	2.2	.00	.30	.50	.36	.05	8.8	2.9	1.5	.50	.00
27	6.7	1.3	.10	.30	.50	.30	.07	8.0	3.2	1.5	.72	.00
28	7.4	.78	.10	.30	.50	.30	.07	7.8	2.8	.25	.57	.00
29	8.3	.62	.10	.30	---	.19	.05	7.2	2.3	.19	.64	.00
30	8.8	.60	.10	.30	---	.15	.05	6.8	2.3	.17	1.0	.00
31	8.0	---	.10	.30	---	.15	---	6.5	---	.04	1.5	---
TOTAL	373.3	104.00	8.65	6.30	12.40	12.95	3.43	223.63	128.6	127.63	8.12	32.32
MEAN	12.0	3.47	.28	.20	.44	.42	.11	7.21	4.29	4.12	.26	1.08
MAX	36	7.6	.60	.30	.60	.96	.36	25	6.3	20	2.5	4.4
MIN	4.0	.60	.00	.10	.30	.15	.04	.01	2.3	.04	.00	.00
AC-FT	740	206	17	12	25	26	6.8	444	255	253	16	64

CAL YR 1976 TOTAL 4410.85 MEAN 12.1 MAX 98 MIN .00 AC-FT 8750
WTR YR 1977 TOTAL 1041.33 MEAN 2.85 MAX 36 MIN .00 AC-FT 2070

NOTE.--NO GAGE-HEIGHT RECORD DEC. 24 TO MAR. 3.

SAN JUAN RIVER BASIN

09363200 FLORIDA RIVER AT BONDAD, CO

LOCATION.--Lat 37°03'24", long 107°52'09", in NE1/4SW1/4 sec.31, T.33 N., R.9 W., La Plata County, Hydrologic Unit 14080104, on left bank 20 ft (6 m) downstream from railroad trestle, 0.6 mi (1.0 km) upstream from mouth, 0.7 mi (1.1 km) northeast of Hondo, and 15 mi (24 km) south of Durango.

DRAINAGE AREA.--221 mi² (572 km²).

PERIOD OF RECORD.--October 1956 to September 1963, October 1967 to current year.

REVISED RECORDS.--WSP 1713: 1958.

GAGE.--Water-stage recorder. Altitude of gage is 6,000 ft (1,829 m), from topographic map. Prior to Sept. 11, 1958, at site 300 ft (91 m) upstream at datum 2.39 ft (0.728 m) higher.

REMARKS.--Records good except those for winter period, which are poor. Diversion for irrigation of about 20,000 acres (81 km²) above station. Flow regulated by Lemon Reservoir, capacity, 40,100 acre-ft (49.4 hm³) since November 1963. Most of flow is return flow from irrigated areas.

AVERAGE DISCHARGE.--7 years (water years 1957-63), 77.8 ft³/s (2.203 m³/s), 56,370 acre-ft/yr (69.5 hm³/yr), prior to completion of Lemon Reservoir; 10 years (water years 1968-77), 64.7 ft³/s (1.832 m³/s), 46,880 acre-ft/yr (57.8 hm³/yr), subsequent to completion of Lemon Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,640 ft³/s (46.4 m³/s) Oct. 19, 1972, gage height, 8.30 ft (1.920 m), from rating curve extended above 1,100 ft³/s (31 m³/s), on basis of slope-area measurement of peak flow; minimum daily, 4.6 ft³/s (0.13 m³/s) July 24, 1959.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 168 ft³/s (4.76 m³/s) Aug. 16, gage height, 3.97 ft (1.210 m), from rating curve extended above 1,100 ft³/s (31 m³/s), on basis of slope-area measurement of peak flow; maximum gage height, 5.41 ft (1.649 m) Jan. 29 (backwater from ice); minimum daily discharge, 5.2 ft³/s (0.15 m³/s) Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	37	26	26	22	21	12	7.8	14	8.4	12	7.8
2	44	36	26	24	22	21	14	7.8	13	7.8	11	6.9
3	44	36	26	24	20	20	14	7.5	13	7.8	10	7.8
4	45	36	26	24	20	20	13	7.5	15	8.4	8.4	8.1
5	46	36	26	22	20	20	13	9.4	14	9.4	7.5	7.2
6	45	36	24	22	20	20	14	6.6	14	9.0	7.5	6.6
7	44	36	26	24	22	21	14	8.7	14	7.8	6.9	6.3
8	44	35	26	22	22	21	13	7.5	13	6.3	6.9	5.8
9	44	35	26	22	24	21	13	7.2	14	5.0	6.3	5.5
10	43	35	26	22	24	20	13	6.9	14	5.0	6.6	5.2
11	43	34	26	22	26	20	13	7.2	12	6.0	7.2	6.9
12	41	34	24	22	28	19	13	8.7	13	6.3	9.8	9.8
13	41	34	24	22	28	19	12	13	13	6.6	9.4	8.4
14	41	33	26	22	28	19	11	25	14	7.2	9.4	7.8
15	40	33	26	22	28	18	11	35	12	6.6	62	8.7
16	40	32	26	22	27	19	11	25	11	15	37	8.4
17	42	31	26	22	27	19	10	20	8.4	14	32	8.1
18	49	31	26	22	27	19	10	18	7.5	13	24	7.5
19	40	31	26	22	28	18	9.8	19	8.7	24	15	7.6
20	52	30	26	22	28	17	9.8	20	8.7	24	11	7.2
21	55	30	24	24	27	17	9.8	20	8.4	20	9.4	6.9
22	54	29	24	24	27	17	9.0	19	9.0	19	9.0	7.2
23	56	28	24	22	23	18	8.4	18	9.4	22	9.0	7.8
24	54	28	24	22	23	17	7.5	16	11	45	9.0	7.8
25	49	28	24	22	23	16	7.8	19	12	44	9.0	8.1
26	46	28	24	22	20	16	7.5	18	12	21	9.0	7.5
27	39	28	24	22	20	16	6.9	16	12	19	9.0	8.1
28	38	22	26	22	20	15	7.2	16	11	16	9.0	8.4
29	37	24	24	22	---	14	7.5	16	9.0	17	8.7	8.7
30	37	26	24	20	---	14	7.5	16	9.0	15	7.8	7.8
31	37	---	26	20	---	13	---	14	---	13	6.9	---
TOTAL	1374	952	782	694	674	565	322.7	455.8	349.1	450.6	395.7	226.1
MEAN	44.3	31.7	25.2	22.4	24.1	18.2	10.8	14.7	11.6	14.5	12.8	7.54
MAX	56	37	26	26	28	21	14	35	15	45	62	9.8
MIN	37	22	24	20	20	13	6.9	6.6	7.5	6.0	6.3	5.2
AC-FT	2730	1890	1550	1380	1340	1120	640	904	692	894	785	448
CAL YR 1976	TOTAL	16178.0	MEAN 44.2	MAX 158	MIN 17	AC-FT	32090					
WTR YR 1977	TOTAL	7241.0	MEAN 19.8	MAX 62	MIN 5.2	AC-FT	14360					

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	545	266	220	249	205	145	180	396	1090	253	420	333
2	515	274	220	248	200	159	169	410	1200	222	357	314
3	495	274	220	210	200	152	173	403	1110	215	293	368
4	488	254	240	240	200	152	149	457	1090	214	241	409
5	497	250	240	220	200	136	139	431	1070	246	216	442
6	494	250	220	230	200	149	136	480	1150	246	206	390
7	474	242	230	240	200	139	129	561	1240	238	199	346
8	454	242	230	230	200	145	159	669	1230	221	194	313
9	434	235	250	230	210	145	198	769	1290	193	191	274
10	415	239	225	230	205	142	294	960	1140	174	192	258
11	398	235	210	220	200	136	385	695	963	152	200	275
12	379	235	210	230	175	129	345	480	844	139	229	334
13	369	227	220	240	180	129	242	453	789	246	248	382
14	357	231	210	250	175	136	198	473	743	459	247	352
15	342	227	210	240	170	139	194	444	692	466	479	342
16	336	220	220	250	170	132	201	358	631	516	931	408
17	331	212	240	220	160	139	254	343	564	564	1150	455
18	331	208	230	230	165	142	396	336	531	562	876	446
19	318	216	210	230	160	142	500	324	481	625	813	400
20	333	220	200	230	155	129	407	302	430	695	716	360
21	330	214	200	230	152	132	274	276	399	637	625	345
22	349	213	200	230	155	129	212	258	369	599	585	317
23	360	207	210	210	154	139	212	265	343	572	569	289
24	317	201	220	200	152	139	270	316	344	622	526	310
25	322	198	220	215	162	142	360	383	345	645	599	286
26	322	203	215	210	152	142	373	366	325	829	617	262
27	317	214	230	210	150	142	456	335	337	974	539	247
28	326	213	240	210	148	145	420	305	319	853	465	250
29	317	198	230	210	---	162	405	334	294	771	418	245
30	312	228	240	205	---	145	364	502	271	601	380	236
31	290	---	250	205	---	149	---	842	---	502	355	---
TOTAL	11867	6846	6910	7002	4955	4383	8194	13926	21624	14251	14086	9988
MEAN	383	228	223	226	177	141	273	449	721	460	454	333
MAX	545	274	250	250	210	162	500	960	1290	974	1150	455
MIN	290	198	200	200	148	129	129	258	271	139	191	236
AC-FT	23540	13580	13710	13890	9830	8690	16250	27620	42890	28270	27940	19810
CAL YR 1976	TOTAL	253951	MEAN	694	MAX	3510	MIN	198	AC-FT	503700		
WTR YR 1977	TOTAL	124032	MEAN	340	MAX	1290	MIN	129	AC-FT	246000		

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 (213 m) downstream from U.S. Highway 160.

DRAINAGE AREA.--37 mi² (96 km²), 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 (2,470.316 m) above mean sea level. Prior to May 1, 1920, nonrecording gage, and May 1, 1920, to May 24, 1927, water-stage recorder, at several sites about 600 ft (180 m) downstream at different datums. May 25, 1927, to Sept. 30, 1938, water-stage recorder at site 60 ft (18 m) downstream and Oct. 1, 1938, to Sept. 30, 1941, at present site at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good except those for winter period, which are fair. Cherry Creek ditch exports water above station for irrigation of about 2,000 acres (8.09 km²) in Cherry Creek drainage.

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

AVERAGE DISCHARGE.--61 years (water years 1906, 1918-77), 44.1 ft³/s (1.249 m³/s), 31,950 acre-ft/yr (39.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,880 ft³/s (53.2 m³/s) Sept. 22, 1941, gage height, 4.30 ft (1.311 m), present datum, from rating curve extended above 620 ft³/s (18 m³/s), on basis of slope-area measurement of peak flow; maximum gage height, 5.13 ft (1.564 m) Sept. 6, 1970; no flow part of Oct. 24, 1966, caused by filling of pond upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood observed occurred Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 44 ft³/s (1.25 m³/s) June 2, gage height, 2.83 ft (0.863 m), no peak above base of 230 ft³/s (6.5 m³/s); minimum daily, 2.5 ft³/s (0.071 m³/s) Jan. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	6.7	5.0	4.5	4.5	4.0	3.5	9.1	34	8.2	16	9.1
2	16	6.7	4.6	4.0	4.5	4.0	3.5	9.1	37	8.2	14	12
3	18	6.7	5.0	4.5	4.0	4.0	3.8	14	36	8.2	13	24
4	18	6.7	5.3	4.5	4.0	3.5	4.4	20	32	8.6	12	18
5	18	6.7	5.0	4.0	4.5	3.0	4.6	22	32	9.1	10	14
6	17	6.7	5.0	3.5	4.5	3.5	5.0	28	31	8.6	10	14
7	16	6.7	5.0	3.0	4.5	3.5	4.6	29	30	8.2	10	12
8	16	6.7	5.0	3.0	4.5	4.0	4.6	30	29	7.4	8.6	11
9	15	6.7	4.6	2.5	4.5	4.0	4.6	31	28	7.0	7.8	9.6
10	13	6.7	4.6	3.0	4.5	4.0	4.6	34	25	7.0	7.4	9.1
11	13	6.7	4.4	3.5	4.5	3.5	5.0	29	23	7.0	8.2	12
12	14	7.0	4.4	4.0	4.5	3.5	5.0	28	22	6.7	9.6	14
13	14	7.4	4.0	3.5	5.0	3.8	5.3	26	21	6.7	8.6	12
14	16	7.4	3.8	3.5	5.0	3.5	5.6	26	20	7.4	8.6	11
15	15	7.0	3.8	3.5	5.0	3.5	6.7	24	19	7.0	17	11
16	14	7.0	3.8	3.5	5.0	3.8	7.8	21	18	7.4	21	11
17	14	7.0	3.5	4.0	5.0	3.8	9.6	21	18	7.0	24	10
18	13	6.7	3.5	4.5	5.0	3.8	10	18	16	6.7	16	9.1
19	11	6.7	3.5	4.5	5.0	3.5	12	14	16	8.2	16	8.6
20	9.6	6.7	3.5	4.5	5.0	3.8	12	17	14	9.5	18	7.0
21	8.6	6.4	3.5	5.0	5.0	3.8	15	16	14	24	16	7.0
22	7.4	6.4	3.5	5.0	4.5	4.0	18	14	13	22	15	6.7
23	7.4	6.0	4.0	4.5	4.5	4.4	18	14	12	21	14	5.3
24	7.4	5.6	4.5	4.5	4.5	4.6	16	14	13	27	16	5.5
25	7.0	5.6	4.0	4.0	4.0	4.0	15	15	12	18	20	4.4
26	7.4	5.3	4.0	4.0	3.5	4.0	12	14	11	16	16	5.8
27	7.4	5.3	4.5	4.0	3.5	4.4	8.6	14	10	24	14	4.4
28	7.4	4.5	4.5	4.0	3.5	4.4	9.1	15	10	21	13	4.4
29	7.4	5.0	4.5	4.0	---	4.0	9.1	15	9.1	16	12	4.0
30	7.4	5.0	4.5	4.0	---	3.5	9.1	16	8.6	16	11	4.0
31	7.0	---	4.5	4.0	---	3.5	---	18	---	16	10	---
TOTAL	380.4	191.7	133.3	122.5	126.0	118.6	252.1	615.2	613.7	375.1	412.8	286.0
MEAN	12.3	6.39	4.30	3.95	4.00	3.83	8.40	19.8	20.5	12.1	13.3	9.53
MAX	18	7.4	5.3	5.0	5.0	4.6	18	34	37	27	24	24
MIN	7.0	4.5	3.5	2.5	3.5	3.0	3.5	9.1	8.6	6.7	7.4	3.5
AC-FT	755	380	264	243	250	235	500	1220	1220	744	819	567

CAL YR 1976 TOTAL 10196.3 MEAN 27.9 MAX 182 MIN 3.5 AC-FT 20220
WTR YR 1977 TOTAL 3627.4 MEAN 9.94 MAX 37 MIN 2.5 AC-FT 7190

NOTE.--NO GAGE-HEIGHT RECORD DEC. 19 TO MAR. 3.

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 (0.3 km) downstream from Ponds Arroyo, and 4.8 mi (7.7 km) north of La Plata, NM.

DRAINAGE AREA.--331 mi² (857 km²).

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 (1,821.226 m) above mean sea level. See WSP 1713 or 1733 for history of changes prior to Mar. 17, 1934.

REMARKS.--Records good except those for winter period, which are fair. Diversions above station for irrigation of about 15,000 acres (60.7 km²), mostly above station.

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

AVERAGE DISCHARGE.--57 years, 33.1 ft³/s (0.9374 m³/s), 23,980 acre-ft/yr (29.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,705 ft³/s (135 m³/s) Aug. 24, 1927, gage height, 11.36 ft (3.463 m), present datum, from rating curve extended above 750 ft³/s (21 m³/s), on basis of slope-area measurement of peak flow; no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,400 ft³/s (96.3 m³/s) July 25, gage height, 9.45 ft (2.880 m), from floodmarks, from rating curve extended above 530 ft³/s (15 m³/s), on basis of slope-area measurement of peak flow; no flow Aug. 7-11, 13, Sept. 2-6, 22-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	2.0	3.5	3.0	3.5	1.5	.30	4.0	6.5	.80	.80	.02
2	2.9	2.0	3.5	3.0	3.5	1.2	.35	2.8	7.9	.80	.00	.00
3	2.7	1.6	4.0	3.0	3.0	1.2	.45	3.5	9.6	.80	.45	.00
4	2.2	1.5	4.0	3.0	3.0	1.4	.84	3.0	13	1.0	.06	.00
5	2.2	1.5	4.0	2.5	3.5	1.6	1.4	2.8	13	1.4	.47	.00
6	2.0	1.8	3.5	2.5	3.5	2.2	2.0	3.0	14	1.5	.02	.00
7	2.0	3.2	3.5	2.5	3.5	1.6	2.8	3.0	14	1.2	.00	.05
8	2.0	3.5	4.0	2.5	3.5	.60	2.8	3.0	14	.80	.00	.60
9	2.0	4.0	4.0	2.0	3.5	.45	2.8	2.8	14	.45	.00	.45
10	2.4	2.8	4.0	2.0	3.5	.70	2.8	2.8	14	.50	.00	.30
11	2.6	3.2	3.5	2.5	3.5	.50	3.0	3.0	10	.50	.00	.45
12	1.6	4.3	3.5	3.0	3.5	.50	3.0	3.2	7.9	.90	.01	1.4
13	1.8	4.6	3.5	3.0	4.0	.60	2.6	6.2	6.5	.70	.00	1.0
14	1.8	4.9	3.5	3.0	4.0	.80	2.4	16	5.5	7.2	1.2	.80
15	1.8	5.2	3.5	3.0	4.0	.45	2.8	16	4.3	23	41	.80
16	1.6	5.2	3.5	3.0	4.0	.25	3.2	9.6	3.2	16	13	.80
17	2.4	4.3	3.5	3.0	3.5	.25	4.0	6.8	3.0	1.4	61	.60
18	2.6	3.5	3.5	3.5	3.0	.25	4.0	5.5	2.8	1.5	43	.10
19	2.4	4.0	3.5	3.5	2.6	.15	4.3	5.8	2.6	1.8	4.1	.10
20	1.5	4.3	3.0	3.5	2.4	.15	4.3	6.8	2.4	7.6	3.2	.10
21	1.5	4.3	3.0	4.0	2.0	.15	4.3	5.8	2.4	2.6	3.5	.05
22	1.5	4.0	3.0	4.0	2.6	.15	4.0	5.8	2.4	5.4	3.8	.00
23	1.6	4.3	3.0	3.5	1.8	.15	4.0	4.6	2.2	2.0	1.6	.00
24	2.2	4.0	3.5	3.0	1.8	.20	4.0	4.9	2.4	1.4	1.8	.00
25	2.2	3.8	3.0	2.5	1.8	.31	4.0	7.2	2.8	103	4.9	.00
26	2.4	4.6	3.0	2.5	1.6	.35	4.9	5.5	14	291	2.6	.00
27	2.0	4.3	3.5	3.0	1.2	.35	4.3	4.6	1.8	8.2	1.6	.00
28	1.4	3.0	3.5	3.0	1.6	.45	4.0	3.2	1.4	4.0	1.0	.00
29	1.5	3.0	3.5	3.0	---	.30	4.0	4.9	.90	2.4	.60	.00
30	1.6	3.5	3.5	3.0	---	.35	4.3	4.9	.87	2.4	.45	.00
31	1.8	---	3.5	3.0	---	.40	---	3.8	---	1.6	.15	---
TOTAL	62.4	106.2	108.5	91.5	82.9	19.51	91.94	164.8	199.37	493.85	190.91	7.62
MEAN	2.01	3.54	3.50	2.95	2.96	.63	3.06	5.32	6.65	15.9	6.16	.25
MAX	2.9	5.2	4.0	4.0	4.0	2.2	4.9	16	14	291	51	1.4
MIN	1.4	1.5	3.0	2.0	1.2	.15	.30	2.8	.87	.45	.00	.00
AC-FT	124	211	215	181	164	39	182	327	395	980	379	15
CAL YR 1976 TOTAL	5243.00			MEAN 14.3	MAX 100	MIN 1.4	AC-FT 10400					
WTR YR 1977 TOTAL	1619.50			MEAN 4.44	MAX 291	MIN .00	AC-FT 3210					

SAN JUAN RIVER BASIN

09370800 MANCOS RIVER NEAR CORTEZ, CO

LOCATION.--Lat 37°06'27", long 108°27'43", in NE 1/4 sec. 15, T. 33 N., R. 15 W., Ute Indian Reservation, Montezuma County, Hydrologic Unit 14080107, on right bank 0.8 mi (1.3 km) upstream from Johnson Canyon, 16 mi (26 km) southeast of Towaoc, and 18 mi (29 km) southeast of Cortez.

DRAINAGE AREA.--302 mi² (782 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,700 ft (1,737 m), from topographic map.

REMARKS.--Records good, except those for winter period, which are poor. Flow regulated by Jackson Gulch Reservoir, capacity, 10,000 acre-ft (12.3 hm³) 20 mi (32 km) upstream on Jackson Gulch. Reservoir is fed by a 3-mi (4.8-km) long canal from West Mancos River. Diversions for irrigation of about 10,000 acres (40.5 km²) above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 580 ft³/s (16.4 m³/s) Aug. 1, 1976, gage height, 4.82 ft (1.469 m), from rating curve extended above 21 ft³/s (0.59 m³/s), on basis of step-backwater method; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 525 ft³/s (14.9 m³/s) Sept. 12, gage height, 4.72 ft (1.439 m), from rating curve extended above 21 ft³/s (0.59 m³/s), on basis of step-backwater method; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	15	9.0	7.0	8.0	13	5.5	.92	.70	.00	.00	.00
2	14	15	9.5	7.5	8.5	11	5.8	.84	.76	.00	.00	.28
3	18	14	9.5	8.0	8.5	11	6.2	.68	.20	.00	.00	.35
4	15	13	9.5	8.0	8.5	10	5.8	.68	.12	.00	.00	1.0
5	14	14	10	7.5	8.5	11	5.5	.60	.00	.00	.00	.28
6	14	15	9.5	7.0	9.0	11	5.3	.44	.00	.00	.00	.10
7	15	15	9.0	8.0	9.0	12	5.1	.36	.00	.00	.00	.00
8	16	18	8.5	7.0	8.5	9.9	4.9	.36	.00	.00	.00	.00
9	16	16	9.0	8.0	8.0	9.1	4.7	.28	.00	.00	.00	.00
10	16	16	10	8.0	8.0	9.1	4.7	.20	.00	.00	.35	.00
11	16	15	10	8.5	8.0	8.1	4.7	.28	.00	.00	.53	.36
12	16	15	9.0	9.0	8.5	8.1	4.7	.28	.00	.00	2.2	.84
13	16	14	8.5	9.0	9.0	9.4	4.0	.68	.00	.00	1.5	1.0
14	16	14	8.5	9.0	9.0	8.8	3.7	2.0	.00	.00	3.2	2.6
15	16	15	8.0	8.5	9.5	8.1	3.3	3.5	.00	.00	3.7	2.2
16	16	15	8.0	8.5	9.5	7.8	2.5	2.6	.00	.42	11	1.8
17	16	13	7.5	8.5	9.5	7.8	2.2	1.8	.00	4.4	2.8	3.9
18	16	13	7.0	8.5	10	8.1	1.9	1.4	.00	2.6	5.3	3.2
19	15	14	7.0	8.5	10	8.1	1.8	2.0	.00	1.0	2.8	2.6
20	15	14	7.0	9.0	11	7.5	1.8	1.1	.00	7.1	1.4	2.5
21	14	13	6.5	9.0	11	6.8	1.6	1.0	.00	.01	3.0	2.2
22	14	13	6.0	9.0	12	6.0	1.6	1.1	.00	2.0	2.0	.92
23	15	13	6.0	9.0	12	6.0	1.4	2.2	.00	1.0	3.2	.60
24	15	12	6.5	8.5	13	6.2	1.3	1.1	.00	7.6	14	.76
25	15	11	7.0	8.0	13	6.2	1.0	1.1	.00	3.0	12	.84
26	16	11	7.0	8.0	12	6.5	1.0	1.3	.00	1.8	2.5	.76
27	16	10	6.5	8.0	14	6.0	1.1	1.1	.00	18	1.4	.36
28	16	10	6.0	8.0	13	5.8	1.1	1.7	.00	33	.84	.20
29	15	10	6.0	8.0	---	5.3	1.1	.84	.00	.12	.52	.20
30	15	8.5	6.0	8.0	---	5.1	1.1	.68	.00	.00	.28	.20
31	14	---	6.5	8.0	---	5.5	---	.36	---	.00	.04	---
TOTAL	475	404.5	244.0	254.5	278.5	254.3	96.4	33.48	1.78	123.63	130.28	193.82
MEAN	15.3	13.5	7.87	8.21	9.95	8.20	3.21	1.08	.059	3.99	4.20	6.46
MAX	18	18	10	9.0	14	13	6.2	3.5	.76	.42	.53	.84
MIN	14	8.5	6.0	7.0	8.0	5.1	1.0	.20	.00	.00	.00	.00
AC-FT	942	802	484	505	552	504	191	66	3.5	245	258	384

WTR YR 1977 TOTAL 2490.19 MEAN 6.82 MAX 84 MIN .00 AC-FT 4940

09370800 MANCOS RIVER NEAR CORTEZ, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1976 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 4,600 micromhos June 4, 1977; minimum, 737 micromhos Aug. 14, 1977.

WATER TEMPERATURE: Maximum, 29.5°C July 16, 1976; minimum, freezing point many days during November 1976 to April 1977.

INSTRUMENTATION.--water-quality monitor since July 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 4,600 micromhos June 4; minimum, 737 micromhos Aug. 14.

WATER TEMPERATURES: Maximum, 29.0°C July 27; minimum, freezing point many days during November to April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA, MG)	NON-CARBONATE HARDNESS (MG/L)
OCT								
01...	1010	13	2000	7.5	12.0	9.3	1000	840
27...	0940	16	1990	6.2	4.0	--	1000	820
NOV								
29...	1440	8.9	2920	6.5	.0	11.4	1500	1200
DEC								
29...	1200	4.5	2600	6.5	.0	10.9	1400	1100
JAN								
26...	1350	7.3	2200	7.1	.0	11.1	1200	960
FEB								
28...	1445	12	2300	6.8	3.0	11.2	1300	1000
MAR								
25...	0930	5.4	2600	7.7	5.0	10.5	1300	1100
APR								
27...	1000	1.0	2900	7.5	11.0	9.1	1500	1400
MAY								
23...	0945	2.8	3400	7.4	10.0	9.1	1900	1700
AUG								
26...	0935	2.4	3250	7.4	16.0	8.0	1500	1400
SEP								
26...	1030	.73	3500	7.3	10.5	9.4	1900	1800

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT									
01...	210	120	120	1.6	4.8	212	0	174	1000
27...	210	120	120	1.6	3.7	245	0	201	1000
NOV									
29...	290	190	180	2.0	4.4	330	0	271	1600
DEC									
29...	280	180	170	2.0	4.1	367	0	301	1400
JAN									
26...	240	150	140	1.7	3.9	312	0	256	1200
FEB									
28...	240	160	160	2.0	3.7	272	0	223	1300
MAR									
25...	240	170	190	2.3	3.8	238	0	195	1400
APR									
27...	290	200	230	2.5	5.1	220	0	180	1700
MAY									
23...	330	250	300	3.0	7.1	230	0	190	2100
AUG									
26...	380	130	310	3.5	15	140	0	110	1900
SEP									
26...	320	270	300	3.0	7.3	180	0	150	2200

SAN JUAN RIVER BASIN

09370800 MANCOS RIVER NEAR CURTEZ, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
OCT								
01...	16	.2	10	1590	.24	.01	10	40
27...	13	.2	9.0	1600	.45	.00	30	60
NOV								
29...	22	.2	11	2470	1.1	.00	10	100
DEC								
29...	19	.2	11	2250	.94	.01	20	80
JAN								
26...	18	.2	9.8	1920	.73	.02	10	40
FEB								
28...	20	.2	6.6	2030	.46	.01	310	90
MAR								
25...	26	.2	3.5	2150	.20	.01	30	100
APR								
27...	25	.2	4.2	2560	.07	.01	60	150
MAY								
23...	15	.2	6.2	3120	.01	.03	20	150
JUN								
26...	60	.7	7.6	2890	4.0	.00	40	20
SEP								
26...	29	.2	7.1	3220	.39	.01	20	30

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1900	2140	---	2440	2130	2440	2740	3030	3180	---	---	1230
2	1870	2120	---	2390	2100	2350	---	3060	3290	---	---	---
3	1870	2020	---	2380	2130	2420	---	3090	3440	---	---	1380
4	1900	2140	---	2360	---	2410	---	3120	3460	---	---	1380
5	1910	2180	---	2430	2140	2450	---	3160	---	---	---	1380
6	1920	2130	---	2460	2130	2450	---	3200	---	---	---	1390
7	1910	2100	---	2490	2140	2440	---	3230	---	---	---	---
8	1900	2100	---	2440	2170	2420	---	3270	---	---	---	---
9	1910	2010	---	2460	2200	2400	---	3270	---	---	---	---
10	1910	2070	---	2470	2210	2390	---	3280	---	---	1020	---
11	1890	2080	---	2500	2190	2430	---	3270	---	---	900	908
12	1890	2070	---	2510	2140	2510	---	3270	---	---	962	1330
13	1890	2080	---	2500	2080	2550	2890	3310	---	---	1080	1110
14	1890	2090	---	2470	1950	2460	2870	3240	---	---	847	---
15	1910	2080	---	2450	1850	2430	2850	3020	---	---	1050	---
16	1910	2080	---	2420	1800	---	2860	2990	---	2840	1540	1870
17	1900	2100	---	2370	1690	---	2850	3100	---	2670	1400	---
18	1900	2130	---	2290	1700	---	2860	3170	---	2250	1720	3180
19	1890	2100	---	2250	1760	---	2830	3310	---	2290	1810	3520
20	1880	2070	---	2250	1820	---	2810	3410	---	2370	1990	---
21	1890	2080	---	2210	1840	---	2800	3500	---	2480	---	---
22	1900	2070	---	2140	1890	---	2770	3540	---	2530	2370	---
23	1900	2080	---	2100	1980	---	2780	3600	---	2590	---	---
24	1910	2130	---	2130	2080	---	2810	3540	---	2650	3280	---
25	1950	2180	---	2220	2180	2610	2800	2900	---	2670	3660	---
26	1980	2220	---	2230	2270	2630	2780	2970	---	2750	2970	---
27	2020	2200	---	2270	2370	2670	2920	3060	---	2910	2260	---
28	2040	2280	---	2250	2470	2710	3000	3140	---	2350	2180	---
29	2060	2340	2550	2230	---	2730	3000	3250	---	2690	---	3690
30	2080	2420	2590	2250	---	2770	3010	3320	---	---	2330	3770
31	2100	---	2560	2190	---	2780	---	3210	---	---	---	---

09370800 MANCOS RIVER NEAR CURTEZ, CU--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	18.0	12.0	10.0	2.0	---	.0	.0	.0	1.5	1.0	7.5	1.0
2	18.5	14.5	10.0	2.0	---	.0	.0	.0	1.5	1.0	6.0	1.0
3	18.0	13.5	11.0	3.0	---	.0	.0	.0	1.5	1.0	6.0	1.0
4	---	---	10.5	3.0	---	.0	.5	.0	1.5	1.0	5.0	1.0
5	---	---	9.5	2.0	---	.0	.0	.0	1.0	1.0	4.0	1.0
6	---	---	9.5	2.0	---	.0	.0	.0	1.5	1.0	6.5	1.0
7	10.0	7.5	10.0	2.5	---	.0	.0	.0	1.5	1.0	9.0	1.0
8	10.0	6.0	9.0	2.0	---	.0	.0	.0	1.5	1.0	8.5	1.0
9	10.0	6.5	9.0	1.5	---	.0	.0	.0	1.5	1.0	9.0	---
10	10.0	7.0	8.0	1.0	---	.0	.0	.0	1.5	1.0	6.5	2.0
11	10.0	6.5	8.5	1.5	---	.0	.0	.0	1.5	1.0	9.0	1.0
12	9.5	6.0	8.0	2.5	---	.0	.0	.0	1.5	1.0	10.0	1.0
13	9.5	7.5	8.0	2.5	---	.0	.0	.0	1.5	1.0	10.5	1.0
14	10.0	7.5	5.5	3.5	---	.0	.0	.0	1.5	1.0	6.5	1.5
15	10.0	7.0	7.5	2.0	---	.0	.0	.0	1.5	1.0	2.5	1.5
16	10.0	6.5	7.0	1.0	---	.0	.0	.0	2.0	1.0	---	---
17	10.0	6.0	6.0	.0	---	.0	.5	.0	2.5	1.0	---	---
18	10.0	6.0	6.0	.0	---	.0	.0	.0	3.5	1.0	---	---
19	6.0	4.5	6.0	.0	---	.0	.0	.0	4.5	1.0	---	---
20	4.5	4.5	7.0	.0	---	.0	.5	.0	5.0	1.0	---	---
21	4.5	1.5	6.5	.0	---	.0	.5	.5	4.0	1.0	---	---
22	3.0	3.0	9.0	.0	---	.0	.5	.5	3.5	1.0	---	---
23	3.0	3.0	4.5	.0	---	.0	.5	.5	4.5	1.0	---	---
24	12.0	3.0	3.5	.0	---	.0	.5	.5	4.0	1.0	---	---
25	7.0	3.5	4.0	.0	---	.0	.5	.5	4.0	1.0	8.5	5.0
26	4.0	4.0	3.5	.0	---	.0	1.0	.5	4.5	1.0	15.5	3.0
27	10.0	3.5	4.0	.0	---	.0	1.5	1.0	5.0	1.0	16.5	2.5
28	6.0	2.5	---	.0	---	.0	1.0	1.0	5.5	1.0	12.5	2.0
29	9.0	1.5	---	.0	2.5	.0	1.5	1.0	---	---	10.0	-0.5
30	9.5	2.0	---	.0	.5	.0	1.0	1.0	---	---	11.0	1.0
31	10.0	2.0	---	---	.5	.0	1.0	1.0	---	---	6.0	1.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.5	.0	22.0	10.5	22.5	---	---	---	---	---	26.0	11.5
2	---	---	23.0	7.5	22.5	---	---	---	---	---	20.0	13.0
3	---	---	18.0	7.5	22.0	---	---	---	---	---	17.5	14.0
4	---	---	21.5	6.5	21.5	11.0	---	---	---	---	17.5	14.5
5	---	---	21.5	7.5	---	---	---	---	---	---	18.0	14.0
6	---	---	23.0	8.5	---	---	---	---	---	---	18.5	14.0
7	---	---	24.0	8.0	---	---	---	---	---	---	---	---
8	---	---	24.5	9.0	---	---	---	---	---	---	---	---
9	---	---	23.5	10.5	---	---	---	---	---	---	---	---
10	---	---	23.5	8.5	---	---	---	---	19.0	18.5	---	---
11	---	---	19.5	5.5	---	---	---	---	---	17.0	14.5	12.0
12	---	---	15.5	5.5	---	---	---	---	20.0	15.5	13.5	11.0
13	20.0	10.0	15.5	7.0	---	---	---	---	21.0	15.0	19.0	9.0
14	18.5	5.0	12.5	6.5	---	---	---	---	19.5	15.5	18.5	---
15	18.5	5.0	19.5	7.5	---	---	---	---	18.5	16.5	20.5	---
16	19.5	4.0	20.0	9.0	---	---	28.0	18.0	18.0	17.5	16.5	12.5
17	21.0	5.5	20.5	7.0	---	---	22.0	19.0	18.0	17.5	18.0	---
18	19.5	6.0	20.5	6.5	---	---	22.0	19.5	19.0	17.5	17.0	9.0
19	15.5	8.0	16.5	6.0	---	---	22.0	19.5	19.0	18.0	18.0	---
20	16.5	7.0	19.0	7.5	---	---	21.5	19.0	18.5	17.5	19.0	---
21	20.5	5.0	22.0	7.0	---	---	20.5	19.5	18.0	---	---	---
22	21.0	5.0	25.0	8.5	---	---	20.0	18.5	17.5	16.5	---	---
23	21.5	6.0	23.0	9.0	---	---	19.5	18.5	17.0	---	19.5	---
24	24.5	9.0	22.0	12.0	---	---	19.0	18.0	17.0	16.5	18.0	---
25	23.0	9.5	22.0	---	---	---	19.5	18.0	16.5	15.5	18.0	---
26	24.5	8.5	22.0	---	---	---	28.0	17.5	24.5	15.5	13.0	---
27	21.0	10.0	21.5	---	---	---	29.0	14.0	22.5	13.5	---	---
28	22.0	12.0	21.0	---	---	---	19.0	16.5	24.0	10.5	---	---
29	21.5	9.0	22.5	---	---	---	18.5	15.0	26.5	10.0	19.5	13.0
30	22.0	8.0	23.0	---	---	---	---	---	28.0	10.5	20.0	9.0
31	---	---	24.5	---	---	---	---	---	28.5	---	---	---

SAN JUAN RIVER BASIN

09371000 MANCUS 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 (210 m) upstream from bridge on U.S. Highway 666, 2.0 mi (3.2 km) north of Colorado-New Mexico State line, 6.0 mi (9.7 km) upstream from Aztec Creek, and 12 mi (19 km) south of Towaoc.

DRAINAGE AREA.--550 mi² (1,420 km²), approximately.

PERIOD OF RECORD.--October 1920 to September 1943, February 1951 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1733: 1924 (monthly figures only).

GAGE.--water-stage recorder. Datum of gage is 5,055.9d ft (1,541.063 m) above mean sea level. See WSP 1713 or 1733 for history of changes prior to Mar. 11, 1954.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 10,000 acres (40.5 km²) above station. One diversion above station for irrigation of about 100 acres (405,000 m²) below. Flow regulated by Jackson Gulch Reservoir, capacity, 10,000 acre-ft (12.3 km³) since March 1949.

AVERAGE DISCHARGE.--49 years, 49.2 ft³/s (1.393 m³/s), 35,650 acre-ft/yr (44.0 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,300 ft³/s (150 m³/s) Oct. 14 1941, gage height, 7.30 ft (2.225 m), present site and datum, from rating curve extended above 200 ft³/s (5.7 m³/s), on basis of slope-area measurement of peak flow; maximum gage height, 8.50 ft (2.591 m) Sept. 6, 1970; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,490 ft³/s (42.2 m³/s) Sept. 3, gage height, 5.44 ft (1.658 m), only peak above base of 700 ft³/s (20 m³/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	13	8.0	5.5	6.0	7.7	.22	.02	.00	.00	.04	.00
2	14	14	8.5	6.0	6.5	9.4	.34	.02	.00	.00	.00	.00
3	16	13	8.5	5.5	6.5	8.4	.50	.02	.00	.00	.00	.00
4	16	12	8.5	6.5	6.5	7.2	.75	.02	.00	.00	.00	261
5	15	12	8.5	6.0	6.5	7.2	.70	.02	.00	.00	.00	4.4
												.80
6	13	13	8.5	5.5	7.0	7.6	.40	.03	.00	.00	.00	.22
7	12	14	7.5	6.5	7.0	6.6	.22	.03	.00	.00	.00	.04
8	15	13	7.5	5.5	6.5	7.5	.19	.03	.00	.00	.00	.00
9	16	16	8.0	6.5	6.5	8.0	.09	.02	.00	.00	.00	.00
10	16	14	8.5	6.5	6.5	8.0	.08	.00	.00	.00	.00	.00
11	15	14	8.5	6.5	6.5	7.7	.08	.00	.00	.00	.00	8.8
12	16	14	7.5	7.0	7.0	5.7	.08	.00	.00	.00	.00	52
13	15	13	7.5	7.0	7.0	6.2	.07	.00	.00	.00	.00	56
14	16	13	7.0	7.0	7.0	7.5	.06	.05	.00	10	.00	4.6
15	15	14	7.0	6.5	7.5	7.0	.06	.05	.00	4.9	.00	.99
16	15	14	6.5	6.5	7.5	5.7	.06	.02	.00	.19	30	.80
17	15	12	6.0	6.5	7.5	6.2	.06	.00	.00	.39	19	.13
18	14	12	6.0	6.5	8.0	6.4	.06	.00	.00	3.2	7.0	.03
19	14	12	6.0	6.5	8.5	6.2	.04	.00	.00	.55	9.8	.00
20	14	13	5.5	6.5	9.0	5.4	.04	.00	.00	.08	.55	.10
21	13	13	5.5	7.0	9.0	5.2	.04	.00	.00	.00	.09	.03
22	13	12	5.0	7.0	9.5	5.0	.04	.00	.00	54	20	.00
23	13	12	5.0	7.0	8.0	4.3	.04	.00	.00	5.6	13	.00
24	14	11	5.5	6.5	8.0	3.1	.04	.00	.00	.28	47	.00
25	14	10	5.5	6.0	7.0	.70	.03	.00	.00	4.9	39	.00
26	14	9.8	5.0	6.0	6.7	.80	.03	.00	.00	3.6	8.0	.00
27	15	9.5	5.5	6.0	6.7	.75	.03	.00	.00	.39	1.5	.00
28	15	9.0	5.0	6.0	6.7	.55	.03	.00	.00	13	.50	.00
29	15	8.7	4.8	6.0	---	.37	.03	.00	.00	6.9	.10	.00
30	14	7.2	4.8	6.0	---	.37	.03	.00	.00	1.3	.04	.00
31	14	---	5.0	6.0	---	.31	---	.00	---	.25	.00	---
TOTAL	450	367.2	206.1	196.0	202.6	163.05	4.44	.33	.00	148.14	195.82	399.94
MEAN	14.5	12.2	6.65	6.32	7.24	5.26	.15	.011	.000	4.78	6.32	13.3
MAX	16	16	8.5	7.0	9.5	9.4	.75	.05	.00	54	47	261
MIN	12	7.2	4.8	5.5	6.0	.31	.03	.00	.00	.00	.00	.00
AC-FT	893	728	409	389	402	323	8.8	.7	.00	294	388	793
CAL YR 1976	TOTAL	7702.43	MEAN	21.0	MAX	345	MIN	.00	AC-FT	15280		
WTR YR 1977	TOTAL	2333.62	MEAN	6.39	MAX	261	MIN	.00	AC-FT	4630		

09371420 MCELMO CREEK ABOVE ALKALI CANYON, NEAR CORTEZ, CO

LOCATION.--Lat 37°19'38", long 108°38'55", in SESE¹ sec.31, T.36 N., R.16 W., Montezuma County, Hydrologic Unit 14080202, on left bank 0.9 mi (1.4 km) upstream from Alkali Canyon and 4.0 mi (6.4 km) south-west of Cortez.

DRAINAGE AREA.--147 mi² (381 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,750 ft (1,753 m), from topographic map.

REMARKS.--Records good except those for winter period, 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 (134 km²) 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.

AVERAGE DISCHARGE.--5 years, 24.0 ft³/s (0.6797 m³/s), 17,390 acre-ft/yr (21.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 816 ft³/s (23.1 m³/s) July 31, 1976, gage height, 5.92 ft (1.804 m), from rating curve extended above 190 ft³/s (5.4 m³/s), on basis of step-backwater method; minimum daily, 1.5 ft³/s (0.042 m³/s) Sept. 21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 768 ft³/s (21.7 m³/s) Aug. 16, gage height, 5.76 ft (1.756 m), from rating curve extended above 190 ft³/s (5.4 m³/s), on basis of step-backwater method; minimum daily, 1.5 ft³/s (0.042 m³/s) Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	12	9.6	9.0	10	7.8	6.0	4.4	6.2	5.2	3.6	2.4
2	9.3	14	8.9	9.0	11	8.2	6.2	4.4	7.0	5.0	3.6	2.6
3	12	14	9.3	8.5	11	10	7.0	4.4	7.3	3.6	6.6	3.6
4	8.9	11	9.3	9.0	11	18	6.8	4.6	4.8	3.4	4.4	2.9
5	8.2	10	9.6	9.0	10	14	6.2	5.5	4.2	4.6	3.6	2.6
6	9.6	10	8.2	10	10	10	6.5	4.2	4.4	5.5	3.6	2.9
7	8.9	10	8.5	9.0	11	9.9	7.0	3.8	6.2	4.6	3.4	4.0
8	10	14	8.2	8.0	11	7.0	11	3.6	6.5	5.5	3.4	3.2
9	11	16	7.8	8.0	12	6.8	7.5	3.6	5.5	5.2	4.2	3.0
10	12	15	8.9	9.0	14	7.5	11	3.8	5.7	5.2	4.2	3.0
11	13	14	7.3	10	12	6.2	9.6	4.2	6.0	5.2	37	32
12	13	12	7.0	11	12	6.2	8.2	5.2	3.6	5.2	8.2	86
13	14	13	7.5	11	13	7.3	7.0	16	2.7	4.8	4.4	21
14	14	13	7.5	11	14	7.5	7.0	31	3.8	4.8	4.8	3.6
15	14	13	7.5	11	12	7.2	6.8	19	5.5	4.6	6.0	3.2
16	14	12	7.3	10	11	7.3	5.5	14	6.0	4.8	114	2.9
17	16	12	7.3	10	11	7.8	6.2	13	7.3	9.9	42	2.4
18	17	12	7.5	10	10	8.2	6.8	11	9.6	7.0	8.5	1.9
19	18	13	8.0	10	10	7.9	6.5	11	10	6.5	5.5	1.8
20	20	13	8.0	10	10	7.8	5.7	13	11	7.8	4.6	1.6
21	21	14	8.0	11	9.3	7.3	3.2	12	9.6	8.2	4.2	1.5
22	22	13	7.5	11	8.9	6.5	3.0	13	8.5	8.9	3.6	1.5
23	23	13	7.5	11	7.5	6.8	2.9	13	9.6	29	3.4	1.9
24	24	12	8.0	11	7.8	7.5	2.9	11	8.5	43	18	1.9
25	24	11	7.5	10	7.5	8.9	2.9	9.3	11	175	23	1.9
26	23	11	7.5	10	6.9	11	2.7	8.2	10	8.9	4.2	1.9
27	12	10	8.0	9.0	6.6	11	2.9	8.5	14	5.7	3.0	2.1
28	11	10	8.0	9.0	6.4	6.8	4.6	7.5	12	4.6	2.6	2.2
29	12	10	7.0	9.0	---	6.5	7.0	6.8	10	5.5	2.4	2.4
30	13	9.6	7.5	9.5	---	6.2	9.6	6.5	7.0	4.6	2.4	2.4
31	13	---	8.0	10	---	6.0	---	6.2	---	4.0	2.4	---
TOTAL	448.7	366.6	247.7	303.0	286.9	257.1	186.2	281.7	223.5	405.8	344.8	206.4
MEAN	14.5	12.2	7.99	9.77	10.2	8.29	6.21	9.09	7.45	13.1	11.1	6.88
MAX	24	16	9.6	11	14	18	11	31	14	175	114	86
MIN	7.8	9.6	7.0	8.0	6.4	6.0	2.7	3.6	2.7	3.4	2.4	1.5
AC-FT	890	727	491	601	569	510	369	559	443	805	684	409
CAL YR 1976	TOTAL	7019.0	MEAN	19.2	MAX	215	MIN	7.0	AC-FT	13920		
WTR YR 1977	TOTAL	3558.4	MEAN	9.75	MAX	175	MIN	1.5	AC-FT	7060		

NOTE.--NO GAGE-HEIGHT RECORD DEC. 18 TO FEB. 17.

SAN JUAN RIVER BASIN

09371700 McELMO CREEK BELOW CORTÉZ, CO

LOCATION.--Lat 37°20'26", long 108°48'19", in NW¼NW¼ sec.35, T.36 N., R.18 W., Montezuma County, Hydrologic Unit 14080202, on left bank 100 ft (30 m) downstream from bridge on State Highway 32, 150 ft (46 m) downstream from Sand Canyon, and 11.7 mi (18.8 km) west of Cortez.

DRAINAGE AREA.--283 mi² (733 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,430 ft (1,655 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station by Black Dike ditch for irrigation of 310 acres (1.25 km²) above station and Rock Creek ditch for irrigation of 650 acres (2.63 km²) below station. Low flows are mainly return flows from irrigated areas. Water is imported above station from Dolores River basin for irrigation of about 33,000 acres (134 km²) 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.

AVERAGE DISCHARGE.--5 years, 37.2 ft³/s (1.054 m³/s), 26,950 acre-ft/yr (33.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,130 ft³/s (60.3 m³/s) July 19, 1977, gage height, 8.96 ft (2.731 m), from floodmarks, from rating curve extended above 400 ft³/s (11 m³/s), on basis of step-backwater method; minimum daily, 0.04 ft³/s (0.001 m³/s) Sept. 9, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,130 ft³/s (60.3 m³/s) July 19, gage height, 8.96 ft (2.731 m), from floodmarks, from rating curve extended above 400 ft³/s (11 m³/s), on basis of step-backwater method; minimum daily, 0.08 ft³/s (0.002 m³/s) Sept. 7-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	10	30	20	22	20	.09	.80	2.3	3.3	.38	.09
2	21	10	28	21	24	19	.17	.80	5.4	2.8	.38	.09
3	23	11	27	19	26	19	.38	.80	6.0	2.6	.45	.09
4	20	11	28	20	24	27	.31	2.4	3.5	6.1	1.5	.09
5	18	14	28	20	22	27	.24	1.9	3.0	2.6	.52	.09
6	18	26	26	22	22	20	.24	1.3	2.6	2.5	.59	.09
7	20	26	24	20	24	21	.45	.80	3.8	2.6	.66	.08
8	20	28	26	18	24	21	.38	1.0	7.8	2.6	.73	.08
9	21	28	26	18	28	18	.24	1.1	8.0	2.9	.80	.08
10	22	30	28	20	30	18	.31	1.0	7.7	2.9	.80	.09
11	22	29	22	22	27	16	.31	1.7	5.4	2.8	3.3	2.4
12	22	28	20	24	26	16	.45	3.5	2.9	2.8	2.0	3.2
13	22	28	20	24	27	17	.31	2.8	2.6	2.6	.59	4.7
14	22	30	19	24	26	16	.31	4.7	2.4	2.6	.52	.50
15	20	30	18	24	25	14	.66	2.4	2.8	2.4	.80	.50
16	20	28	18	22	24	18	.66	9.3	2.9	3.3	105	.60
17	19	28	18	22	24	19	.80	9.0	3.2	8.1	44	.60
18	20	30	17	22	21	5.0	.73	8.5	4.3	2.9	9.0	.50
19	20	30	18	22	21	3.8	.66	3.0	5.6	152	5.4	.40
20	20	30	19	22	20	2.5	2.0	3.8	6.4	9.8	5.0	.50
21	20	30	18	24	20	1.5	2.2	4.3	4.8	7.6	4.8	.60
22	20	30	17	24	21	.66	2.0	8.3	4.1	64	4.8	.40
23	22	28	17	24	19	.66	2.0	9.3	9.0	76	15	.50
24	22	26	18	24	21	.90	1.1	9.3	8.3	42	5.4	.60
25	22	24	18	22	18	.90	.80	7.6	7.3	186	3.2	.50
26	17	22	17	22	16	.52	.66	4.0	8.3	8.1	.73	.31
27	11	20	18	20	16	.38	.42	2.6	14	2.2	.39	.31
28	11	20	17	20	16	.38	.59	2.0	4.3	.73	.17	.31
29	10	18	16	20	---	.24	.38	2.0	4.1	2.5	.10	.31
30	11	30	16	20	---	.52	.36	1.9	2.9	.59	.10	.31
31	10	---	17	22	---	.17	---	1.8	---	.45	.10	---
TOTAL	588	733	649	668	634	344.13	202.23	202.80	155.7	665.27	241.71	89.32
MEAN	19.0	24.4	20.9	21.5	22.6	11.1	.67	6.54	5.19	21.5	7.80	2.98
MAX	23	30	30	24	30	27	2.2	4.7	14	186	105	52
MIN	10	10	16	18	16	.17	.09	.80	2.3	.45	.09	.08
AC-FT	1170	1450	1290	1320	1260	683	40	402	309	1320	479	177
CAL YR 1976	TOTAL	10715.50	MEAN	29.3	MAX	279	MIN	2.8	AC-FT	21250		
WTR YR 1977	TOTAL	4991.16	MEAN	13.7	MAX	186	MIN	.08	AC-FT	9900		

09372000 McELMO CREEK NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 37°19'27", long 109°00'54", in NE 1/4 sec. 2, T. 35 N., R. 20 W., Montezuma County, Hydrologic Unit 14080202, on right bank 1.5 mi (2.4 km) upstream from Colorado-Utah State line, 2.0 mi (3.2 km) upstream from Yellowjacket Creek, and 2.0 mi (3.2 km) west of former town of McElmo.

DRAINAGE AREA.--346 mi² (896 km²).

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

REVISED RECORDS.--WSP 1925: 1951-52(M), 1957(M). WRD Colo. 1972: Drainage area.

GAGE.--water-stage recorder. Altitude of gage is 5,490 ft (1,490 m), from topographic map.

REMARKS.--Records good, except those for winter period, which are poor. Diversions for irrigation of about 1,780 acres (7.20 km²) above station. One diversion above station for irrigation of about 60 acres (243,000 m²) below. Part of flow is return water from irrigated lands of Montezuma Irrigation District (water imported from Dolores River basin).

AVERAGE DISCHARGE.--26 years, 44.9 ft³/s (1.272 m³/s), 32,530 acre-ft/yr (40.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,040 ft³/s (86.1 m³/s) Aug. 7, 1967, gage height, 7.58 ft (2.310 m), from floodmark in gage well, from rating curve extended above 2,100 ft³/s (59 m³/s); maximum gage height, 8.13 ft (2.478 m) Sept. 6, 1970; minimum daily discharge, 0.08 ft³/s (0.002 m³/s) Sept. 9, 10, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 472 ft³/s (13.4 m³/s) Aug. 16, gage height, 4.64 ft (1.415 m), no peak above base of 620 ft³/s (18 m³/s); minimum daily, 0.08 ft³/s (0.002 m³/s) Sept. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	35	34	20	24	22	6.5	2.2	1.9	1.3	.70	.29
2	40	35	34	22	26	22	6.0	1.6	1.7	1.0	.75	.19
3	43	34	34	22	28	23	5.5	1.6	2.6	.80	.75	1.4
4	40	32	33	22	25	27	6.0	7.0	2.2	37	.55	.60
5	36	27	32	22	25	33	5.0	3.2	2.0	6.5	.70	.18
6	34	27	28	22	25	24	3.4	3.8	1.7	1.2	.50	.12
7	39	25	26	24	26	25	1.5	3.8	2.0	.80	.55	.11
8	39	28	29	20	27	24	.90	2.8	2.2	1.1	.38	.09
9	37	30	29	20	32	21	.75	4.0	6.0	.90	.38	.08
10	40	34	30	22	36	21	.90	3.6	2.4	1.1	.50	.08
11	39	36	25	24	29	20	.75	6.0	5.8	.47	.44	5.2
12	39	36	22	26	28	19	1.2	4.5	2.6	.50	12	73
13	37	35	23	26	29	20	1.2	4.0	1.7	.60	7.5	42
14	37	36	21	26	29	20	1.1	35	1.8	.70	3.0	6.3
15	37	35	20	26	27	16	1.1	56	3.0	.32	1.7	.75
16	37	32	20	24	28	20	1.2	17	3.0	.23	93	.48
17	36	29	20	24	28	20	1.2	4.5	3.0	1.1	77	.88
18	37	34	19	24	27	18	.85	5.0	2.4	13	22	2.0
19	37	34	20	24	26	18	1.3	3.4	3.6	9.9	8.0	.95
20	37	34	21	24	25	17	1.7	2.8	4.6	106	3.4	.29
21	40	33	20	26	25	16	1.6	3.8	2.6	6.0	1.5	.42
22	40	34	19	26	26	14	1.7	3.4	2.4	3.6	.95	.60
23	42	30	19	26	24	13	1.6	2.8	2.8	14	.90	.26
24	43	28	20	26	24	12	1.7	3.9	3.0	19	14	.26
25	43	26	20	24	23	15	1.7	4.0	1.7	30	6.5	1.0
26	44	24	19	22	20	14	1.7	3.2	2.4	17	4.0	.65
27	40	22	20	22	20	12	1.5	3.2	3.0	5.5	1.2	.23
28	36	20	19	22	20	10	1.7	2.0	1.5	1.8	.50	1.1
29	35	20	18	22	---	9.0	2.0	6.8	1.2	1.2	.44	.65
30	36	36	18	24	---	9.0	3.4	3.6	1.1	1.9	.26	.47
31	35	---	19	24	---	8.0	---	1.9	---	.95	.19	---
TOTAL	1195	921	731	728	732	562.0	66.85	210.4	77.9	285.47	264.24	140.63
MEAN	38.5	30.7	23.6	23.5	26.1	18.1	2.23	6.79	2.60	9.21	8.52	4.69
MAX	44	36	34	26	36	33	6.5	56	6.0	106	93	73
MIN	34	20	18	20	20	8.0	.75	1.6	1.1	.23	.19	.08
AC-FT	2370	1830	1450	1440	1450	1110	133	417	155	566	524	279

CAL YR 1976 TOTAL 15051.40 MEAN 41.1 MAX 320 MIN 1.6 AC-FT 29850
WTR YR 1977 TOTAL 5914.49 MEAN 16.2 MAX 106 MIN .08 AC-FT 11730

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 of these 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 NW $\frac{1}{4}$ sec.21, T.6 N., R.75 W., in Platte River basin. Two collection ditches beginning at headgates located in sec.28, T.5 N., R.76 W., and sec.29, T.6 N., R.75 W., intercept all tributaries upstream on each side of the Colorado River and converge at La Poudre Pass.

REVISIONS (WATER YEARS).--WSP 1313: 1912-27.

09012000 Eureka ditch diverts water from tributaries of Tonahutu Creek between headgate in sec.7, T.4 N., R.74 W., and Sprague Pass, in Colorado River basin, to Spruce Creek (tributary to Big Thompson River) in sec.16, T.4 N., R.74 W., in Platte River basin.

REVISIONS (WATER YEARS).--WSP 1313: 1949.

09013000 Alva B. Adams tunnel diverts water from Grand Lake and Shadow Mountain Lake in NW $\frac{1}{4}$ sec.9, T.3 N., R.75 W., in Colorado River basin, to Lake Estes (Big Thompson River) in sec.30, T.5 N., R.72 W., in Platte River basin. For daily discharge, see elsewhere in this report.

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.

09022500 Moffat water tunnel diverts water from tributaries of Williams Fork (via August P. Gumlick and Vasquez tunnels, beginning in 1959) between headgates (in secs.20 and 29, T.3 S., R.76 W.) and west portal of August P. Gumlick tunnel (in sec.28, T.3 S., R.76 W.) and from the main stem and tributaries of Fraser River between headgates (in sec.8, T.2 S., R.76 W., and sec.24, T.1 S., R.75 W.) and west portal of Moffat tunnel (in sec.11, T.2 S., R.75 W.), in Colorado River basin, to South Boulder Creek, in sec.2, T.2 S., R.74 W., in Platte River basin. (See Station 09036000 in Volume 2 for diversions by August P. Gumlick tunnel.)

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 SE $\frac{1}{4}$ 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 SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.2, T.8 S., R.78 W., left bank of Demrose Creek in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.6, T.8 S., R.77 W., and intercepting intermediate tributaries, transport diversions to north portal of the tunnel.

09046000 boreas Pass ditch diverts water from tributaries of Blue River between headgate in sec.26, T.7 S., R.77 W., and boreas Pass, in Colorado River basin, to Turryall Creek in sec.26, T.7 S., R.77 W., in Platte River basin.

REVISIONS (WATER YEARS).--WSP 1733: 1958.

09047300 Vidler tunnel diverts water from tributaries of Peru Creek (tributary to Snake River) in sec.9, T.5 S., R.75 W., in Blue River basin, to Leavenworth Creek (tributary to South Clear Creek) in sec.10, T.5 S., R.75 W., in Platte River basin.

09050500 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 SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.4, T.7 S., R.74 W., in Platte River basin. Figures include a small amount of ground-water inflow between Dillon Reservoir and east portal of tunnel.

09061500 Columbine ditch diverts water from tributaries of Eagle River in sec.5, T.8 S., R.79 W., in Colorado River basin to Chalk Creek (tributary to East Fork Arkansas River) in NW $\frac{1}{4}$ sec.9, T.8 S., R.79 W., in Arkansas River basin.

09062000 Ewing ditch diverts water from Piney Creek in sec.11, T.8 S., R.80 W., in Eagle River basin, to Thayer Gulch (tributary to Tennessee Creek) in sec.11, T.8 S., R.80 W., in Arkansas River basin.

TRANSMOUNTAIN DIVERSIONS FROM COLORADO RIVER BASIN IN COLORADO--Continued

09062500 Wurtz ditch diverts water from tributaries of Eagle River between headgate in sec.32, T.7 S., R.80 W., and Tennessee Pass, in Colorado River basin, to West Tennessee Creek (tributary to Tennessee Creek) in sec.17, T.8 S., R.80 W., in Arkansas River basin.

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.

09073000 Twin Lakes tunnel diverts water from tributaries of Roaring Fork River between headgates (in sec.21, T.11 S., R.83 W., and sec.2, T.11 S., R.83 W.), and west portal of Twin Lakes tunnel (in sec.24, T.11 S., R.83 W.), in Colorado River basin, to North Fork Lake Creek in sec.22, T.11 S., R.82 W., in Arkansas River basin.

09077160 Charles M. Boustead Tunnel diverts water from the main stem and tributaries of Fryingpan River (tributary to Roaring Fork River), in Colorado River basin, to Lake Fork in sec.10, T.9 S., R.81 W., in Arkansas River basin. Water is transported to west portal of tunnel (at lat 39°14'44", long 106°31'47"), by a series of collection conduits extending between headgates on right bank of Sawyer Creek at lat 39°15'58", long 106°38'19", and right bank of Fryingpan River at lat 39°14'40", long 106°31'49", and intercepting intermediate tributaries.

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.

09115000 Larkspur ditch diverts water from tributaries of Tomichi Creek between headgates (in sec.11, T.48 N., R.6 E., and sec.1, T.47 N., R.6 E.), and Marshall Pass, in Gunnison River basin, to Poncha Creek (tributary to South Arkansas River) in SE¼ sec.24, T.48 N., R.6 E., in Arkansas River basin.

09118200 Tarbell ditch diverts water from Lake Fork Cochetopa Creek (tributary to Cochetopa Creek), in NW¼ sec.18, T.43 N., R.2 E., in Gunnison River basin, to Lake Fork Saguache Creek (tributary to Middle Fork Saguache Creek) in NE¼ sec.18, T.43 N., R.2 E., in Rio Grande basin. All records available prior to October 1960 published in WSP 1733.

REVISIONS (WATER YEARS).--WSP 1733: 1949-51.

09121000 Tabor ditch diverts water from tributaries of Cebolla Creek in secs.29 and 36, T.43 N., R.3 W., in Gunnison River basin, to Big Spring Creek (tributary to North Clear Creek) in sec.35, T.43 N., R.3 W., in Rio Grande basin.

09341000 Treasure Pass diversion ditch diverts water from tributaries of Wolf Creek between headgates (in sec.31, T.38 N., R.2 E., and sec.6, T.37 N., R.3 E.), and Wolf Creek Pass, in San Juan River basin, to tributary of South Fork Rio Grande in sec.31, T.38 N., R.2 E., in Rio Grande basin.

09347000 Don La Font ditches 1 and 2 divert water from tributaries of Piedra River between headgates in NW¼ sec.4, T.38 N., R.1 W., and SW¼ sec.33, T.39 N., R.1 W., and Piedra Pass, in San Juan River basin, to South River in sec.4, T.38 N., R.1 W., in Rio Grande basin.

09348000 Williams Creek-Squaw Pass ditch diverts water from Williams Creek (tributary to Piedra River) in sec.13, T.39 N., R.3 W., in San Juan River basin, to Squaw Creek in sec.10, T.39 N., R.3 W., in Rio Grande basin.

09351000 Pine River-Weminuche Pass ditch diverts water from North Fork Los Pinos River (tributary to Los Pinos River) in sec.4, T.39 N., R.4 W., in San Juan River basin, to Weminuche Creek in sec.33, T.40 N., R.4 W., in Rio Grande basin.

09351500 Weminuche Pass ditch diverts water from left bank of Rincon la Vaca Creek (tributary to Los Pinos River) in sec.5, T.39 N., R.4 W., in San Juan River basin, to Weminuche Creek in sec.33, T.40 N., R.4 W., in Rio Grande basin.

TRANSMOUNTAIN DIVERSIONS FROM COLORADO RIVER BASIN IN COLORADO

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year
TO PLATTE RIVER BASIN													
09010000 Grand River ditch...	0	0	0	0	0	0	214	1,870	8,040	1,640	641	357	12,760
09012000 Eureka ditch.....	0	0	0	0	0	0	0	0	0	0	0	0	0
09013000 Alva B. Adams tunnel	29,750	31,050	25,810	29,820	25,660	30,800	24,280	17,820	20,350	28,920	15,180	15,030	294,400
09021500 Berthoud Pass ditch.	0	0	0	0	0	0	0	0	216	89	17	0	322
09022500 Moffat water tunnel.	3,850	1,430	880	522	396	395	1,270	11,540	19,430	5,600	3,200	1,480	50,000
09046000 Boreas Pass ditch...	0	0	0	0	0	0	0	0	13	.7	0	0	13
09047300 Vidler tunnel.....	0	0	0	0	0	0	0	31	157	50	38	0	276
09050590 Harold D. Roberts tunnel.....	2,440	5,850	5,620	5,600	5,050	6,490	4,140	11,360	10,630	14,560	11,150	9,250	92,140
Total.....	36,040	38,330	32,310	35,940	31,110	37,680	29,900	42,620	58,840	50,860	30,230	26,120	449,910
TO ARKANSAS RIVER BASIN													
09042000 Hoosier Pass tunnel.	0	0	0	0	0	0	20	157	1,940	392	0	16	2,530
09061500 Columbine ditch.....	34	0	0	0	0	0	0	342	584	43	8.4	0	1,010
09062000 Ewing ditch.....	44	0	0	0	0	0	0	180	169	70	43	28	534
09062500 Wurtz ditch.....	33	0	0	0	0	0	2.4	461	267	.9	0	0	765
09063700 Homestake tunnel....	0	0	0	0	0	2,580	10,810	6,140	5,990	5,530	0	0	31,040
09073000 Twin Lakes tunnel....	24	114	161	126	94	124	362	6,680	12,400	1,060	793	539	22,490
09077160 Charles H. Boustead Tunnel.....	0	0	0	0	0	0	68	4,480	6,770	95	0	0	11,410
09077500 Busk-Ivanhoe tunnel.	130	0	0	0	0	0	0	1,100	1,660	120	60	44	3,110
09115000 Larkspur ditch.....	0	0	0	0	0	0	0	0	0	0	0	0	0
Total.....	265	114	161	126	94	2,700	11,260	19,540	29,780	7,310	904	627	72,890
TO RIO GRANDE BASIN													
09118200 Tarbell ditch.....	15	0	0	0	0	0	0	28	61	0	7.2	60	172
09121000 Tabor ditch.....	0	0	0	0	0	0	0	54	59	17	16	2.8	149
09341000 Treasure Pass diver- sion ditch.....	0	0	0	0	0	0	0.1	1.6	8.2	0	0	0	10
09347000 Don La Font ditches Nos. 1 and 2.....	0	0	0	0	0	0	0	0	4.0	0	0	0	4.0
09348000 Williams Creek-Squaw Pass ditch.....	0	0	0	0	0	0	0	4.9	114	4.3	0	0	124
09351000 Pine River-Weminuche Pass ditch.....	0	0	0	0	0	0	0	0	0	0	0	0	0
09351500 Weminuche Pass ditch	0	0	0	0	0	0	0	0	0	0	40	78	118
Total.....	15	0	0	0	0	0	0.1	88	246	21	63	141	577
Grand Total.....	36,320	38,440	32,470	36,070	31,200	40,380	41,160	62,250	88,870	58,190	31,150	26,890	523,380

NOTE: Due to method of computing water year figures and rounding procedures, totals do not agree.

CREST-STAGE PARTIAL-RECORD STATIONS

The following table contains annual maximum discharges 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 1977

Station number	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft ³ /s)
DOLORES RIVER BASIN							
09168700	Disappointment Creek tributary near Slick Rock, CO	Lat 38°01'33", long 108°48'51", in SW¼SW¼ sec.36, T.43 N., R.18 W., San Miguel County, at twin culverts at State Highway 141, 5 mi (8 km) southeast of Slick Rock.	1.93	1970-77	10- 6-77	11.81	106
09169800	East Paradox Creek tributary near Bedrock, CO	Lat 38°16'53", long 108°48'21", in NE¼SW¼ sec.36, T.47 N., R.18 W., Montrose County, at culvert at State Highway 90, 5.5 mi (8.8 km) southeast of Bedrock.	3.96	1970-77	9-11-77	15.11	244
09175800	Dead Horse Creek near Naturita, CO	Lat 38°02'37", long 108°34'38", in NE¼SE¼ sec.25, T.44 N., R.16 W., San Miguel County, at culvert at State Highway 141, 12.1 mi (19.5 km) south of Naturita.	5.33	1970-77	8-15-77	225.2	1,250
09179400	West Creek tributary near Gateway, CO	Lat 38°43'01", long 108°55'28", in NW¼SE¼ sec.29, T.15 S., R.103 W., Mesa County, on box culvert at State Highway 141, 3 mi (5 km) northeast of Gateway.	2.17	1973-77	7-21-77	11.33	100
GREEN RIVER BASIN							
09247520	Cedar Mountain Gulch at Craig, CO	Lat 40°30'52", long 107°34'31", in SE¼SW¼ sec.35, T.7 N., R.91 W., Moffat County, on left bank at culvert on U.S. Highway 40, 0.5 mi (0.8 km) upstream from mouth and 1.5 mi (2.4 km) west of Yampa St. in Craig. Discontinued 6-30-77.	6.26	1974-77	1977	(a)	1.0
09250900	Lay Creek tributary near Lay, CO	Lat 40°31'31", long 107°55'28", in NE¼SE¼ sec.27, T.7 N., R.94 W., Moffat County, on left bank at culvert under U.S. Highway 40, 0.2 mi (0.3 km) upstream from mouth, 2.5 mi (4.0 km) west of Lay, and 22 mi (35 km) west of Craig.	61.0	1977	1977	(a)	2
09259750	Little Snake River tributary near Great Divide, CO	Lat 40°53'10", long 108°08'47", in SE¼NE¼ sec.30, T.11 N., R.95 W., Moffat County, on right bank at culvert on county road 21, 1.2 mi (1.9 km) upstream from mouth, and 15 mi (24 km) northwest of Great Divide.	3.5	1974-77	1977	(a)	3.7
09306315	Gillam Draw near Rangely, CO	Lat 40°05'31", long 108°44'45", in NE¼NE¼ sec.5, T.1 N., R.101 W., Rio Grande County, on right bank 20 ft (6 m) downstream from bridge on State Highway 64, 0.8 mi (1.3 km) upstream from mouth, and 3.0 mi (4.8 km) east of Rangely.	13.6	1974-77	8-17-77	214.6	960
09306400	West Twin Wash near Dinosaur, CO	Lat 40°14'34", long 108°57'16", in NE¼SE¼ sec.9, T.3 N., R.103 W., Moffat County, on left bank at culvert on U.S. Highway 40, 1.5 mi (2.4 km) upstream from mouth, and 2.9 mi (4.7 km) east of Dinosaur.	4.12	1974-77	8-24-77	218.0	260

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1977--Continued

Station number	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
SAN JUAN RIVER BASIN							
09371300	McElmo Creek trib-utary near Cortez, CU	Lat 37°20'51", long 108°28'56", in NE¼SE¼ sec.27, T.36 N., R.15 W., Montezuma County, at bridge on U.S. Highway 160, 5.8 mi (9.3 km) east of Cortez.	4.43	1971-77	8-15-77	c22.2	1,750

a Peak stage did not reach bottom of gage.

b Approximately.

c From floodmarks.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES

Station no.	Stream	Tributary to	Location	Date	Measurements Discharge (ft ³ /s)
DOLORES RIVER BASIN					
-----	Silver Creek near Rico, CO	Dolores River	Lat 37°41'34", long 108°01'38"	10-11-77	1.4
-----	Beaver Creek near Dolores, CO	Dolores River	Lat 37°34'29", long 108°33'30"	10-11-77	0
09171200	San Miguel River near Telluride, CO	Dolores River	Lat 37°56'55", long 107°52'35"	10-11-77	18
-----	Cottonwood Creek near Pinon, CO	San Miguel River	Lat 38°16'09", long 108°23'55"	10-17-77	0
GREEN RIVER BASIN					
09237800	Service Creek near Oak Creek, CO	Green River	Lat 40°17'43", long 106°48'06"	10-19-77	6.2
09240500	Elk River at Hinman Park, CO	Green River	Lat 40°45'20", long 106°48'40"	10-20-77	34
09242000	Mad Creek near Steamboat Springs, CO	Green River	Lat 40°35'50", long 106°53'20"	10-20-77	17
09244300	Grassy Creek near Mount Harris, CO	Green River	Lat 40°26'45", long 107°08'38"	10-20-77	0
09251900	North Fork Little Snake River near Slater, CO	Green River	Lat 41°00'55", long 107°01'20"	11- 2-77	0
09253000	Little Snake River near Slater, CO	Green River	Lat 40°59'58", long 107°08'34"	10-14-77	19
09254500	Slater Fork at Baxter Ranch, near Slater, CO	Green River	Lat 40°53'00", long 107°20'00"	11- 2-77	15
09255000	Slater Fork near Slater, CO	Green River	Lat 40°58'57", long 107°22'56"	10-14-77	12
SAN JUAN RIVER BASIN					
09349000	Weminuche Creek near Bridge ranger station, near Pagosa Springs, CO	San Juan River	Lat 37°28'10", long 107°14'00"	11- 2-77	6.8
09362000	Lightner Creek near Durango, CO	San Juan River	Lat 37°16'10", long 107°53'15"	10-19-77	2.3
09369500	Middle Mancos River near Mancos, CO	San Juan River	Lat 37°22'15", long 108°15'35"	10-19-77	.17

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA AT SELECTED SITES

09165000 - DOLORES RIVER BELOW RICO, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT			APR		
06...	330	10.0	28...	290	3.0
28...	480	1.0	MAY		
DEC			23...	270	13.0
06...	610	1.0	JUL		
JAN			06...	380	9.0
03...	780	.0	AUG		
FEB			01...	340	13.0
01...	700	.0	SEP		
MAR			08...	400	16.5
01...	710	1.0			
31...	670	.0			

09166500 - DOLORES RIVER AT DOLORES, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT			APR		
06...	330	13.0	28...	320	7.0
28...	420	3.0	MAY		
DEC			23...	310	15.0
06...	460	1.0	JUL		
28...	630	.0	06...	360	16.0
FEB			AUG		
01...	590	.0	01...	365	14.0
28...	550	1.0	SEP		
MAR			08...	365	21.0
31...	420	4.0			

09168100 - DISAPPOINTMENT CREEK NEAR DOVE CREEK, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT			MAY		
06...	2100	12.0	05...	1490	8.5
NOV			JUN		
03...	2900	9.0	01...	2200	24.5
DEC			JUL		
06...	4000	1.0	05...	3100	16.0
MAR			AUG		
01...	3000	1.0	15...	2200	17.5
30...	3100	1.0			

09169500 - DOLORES RIVER AT BEDROCK, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 05...	1350	13.0	MAY 04...	2800	20.0
NOV 02...	880	5.0	JUN 02...	720	17.0
DEC 07...	920	1.0	JUL 06...	2100	23.0
JAN 04...	2700	.0	AUG 02...	1090	24.0
FEB 02...	2000	.0	SEP 07...	1330	18.0
MAR 02...	1300	2.0			
30...	1600	6.0			

09171100 - DOLORES RIVER NEAR BEDROCK, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 05...	--	13.0	MAY 04...	--	13.0
NOV 02...	--	6.0	JUN 02...	--	27.0
DEC 07...	--	2.0	JUL 06...	--	25.0
JAN 04...	--	.0	AUG 02...	7600	23.0
FEB 02...	--	.0	SEP 07...	7500	21.0
MAR 02...	--	2.0			
30...	--	3.0			

09172500 - SAN MIGUEL RIVER NEAR PLACERVILLE, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 04...	370	11.0	MAR 28...	380	4.0
NOV 01...	410	5.0	MAY 02...	390	10.0
DEC 08...	400	.0	31...	265	11.5
JAN 05...	380	.0	JUL 07...	340	16.0
FEB 01...	480	.0	AUG 03...	360	20.5
MAR 01...	400	1.0	SEP 06...	350	19.0

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA AT SELECTED SITES

09172600 - SALTADO CREEK NEAR NORWOOD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
MAY 02...	160	7.0	AUG 03...	215	18.0
31...	185	15.0			
JUL 07...	200	11.0			

09172700 - GURLEY DITCH NEAR NORWOOD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
MAY 03...	115	.0	AUG 03...	230	16.0
JUN 01...	145	8.5	SEP 07...	220	24.0
JUL 05...	170	16.0			

09172800 - WEST BEAVER CREEK NEAR NORWOOD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
MAY 02...	115	.0	AUG 03...	120	10.0
31...	90	9.0			
JUL 07...	120	7.5			

09173000 - BEAVER CREEK NEAR NORWOOD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 04...	260	12.0	MAR 29...	300	1.0
NOV 01...	300	5.0	MAY 02...	260	11.0
DEC 06...	380	1.0	31...	250	18.0
JAN 04...	480	--	JUL 07...	300	10.0
			15...	325	14.0

09174700 - WEST NATURITA C AT UPPER STA. NEAR NORWOOD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
MAR 29...	300	8.0	JUL 05...	200	18.0
MAY 03...	150	4.0	AUG 03...	175	15.5
JUN 01...	185	11.0			

09175000 - WEST NATURITA CREEK NEAR NORWOOD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 04...	740	15.0	MAR 01...	750	3.0
NOV 01...	730	13.0	29...	960	2.0
DEC 06...	920	3.0	MAY 03...	930	10.0
JAN 03...	800	4.0	JUN 01...	900	18.0
FEB 01...	900	3.0	JUL 05...	890	22.0

09175200 - LILYLANDS CANAL NEAR NORWOOD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
MAY 03...	255	10.0	JUL 05...	310	23.0
JUN 01...	190	23.0			

09175400 - MAVERICK DRAW NEAR NORWOOD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 05...	1500	16.0	MAY 03...	1650	11.0
NOV 01...	1510	11.0	JUN 01...	1750	9.0
DEC 07...	1500	4.0	JUL 06...	1300	20.0
JAN 04...	1600	2.0	AUG 03...	1510	16.0
FEB 02...	1600	1.0	SEP 06...	1620	24.5
MAR 02...	1350	3.0			
28...	1450	8.0			

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA AT SELECTED SITES

09175500 - SAN MIGUEL RIVER AT NATURITA, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT			MAR		
05...	630	16.0	01...	720	5.0
NOV			30...	650	6.0
02...	610	9.0	MAY		
DEC			04...	690	18.0
07...	1000	4.0	JUN		
JAN			02...	400	15.5
04...	700	.0	JUL		
FEB			06...	930	26.5
01...	730	.0			

09175900 - DRY CREEK NEAR NATURITA, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
MAR			SEP		
30...	>8000	1.0	08...	4900	16.0
JUL					
05...	3800	24.0			

09236000 - BEAR RIVER NEAR TOPONAS, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT			MAY		
21...	120	2.5	24...	90	5.5
26...	--	.0	JUN		
NOV			22...	70	12.0
30...	120	.0	JUL		
JAN			21...	90	13.0
26...	105	.0	AUG		
MAR			23...	110	8.5
01...	110	.5	SEP		
APR			27...	105	7.5
21...	95	1.0			

09239500 - YAMPA RIVER AT STEAMBOAT SPRINGS, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 20...	320	4.5	JAN 24...	270	.5
26...	--	2.0	FEB 24...	300	.0
NOV 23...	360	.0	MAR 22...	270	1.0
DEC 13...	340	.0	APR 21...	160	4.5
13...	260	.0	MAY 23...	65	9.0
13...	320	.0	JUL 22...	290	17.0
14...	320	.0	AUG 24...	320	17.5
14...	320	.0			
14...	310	.0			
14...	320	.0			
14...	320	.0			
22...	300	.0			

09241000 - ELK RIVER AT CLARK, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 20...	140	.0	APR 20...	95	4.0
25...	--	.0	MAY 23...	60	5.5
DEC 01...	140	.0	JUL 22...	60	14.0
JAN 13...	110	.0	AUG 24...	95	12.0
FEB 23...	150	.0	SEP 26...	80	8.0
MAR 22...	200	.0			

09245000 - ELKHEAD CREEK NEAR ELKHEAD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 06...	255	6.5	JUN 02...	120	13.0
DEC 09...	240	.5	SEP 09...	300	13.0
30...	260	.5			
MAY 05...	180	9.0			

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA AT SELECTED SITES

09249200 - SOUTH FORK OF WILLIAMS FORK NEAR PAGODA, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 06...	280	7.0	MAY 05...	200	12.0
DEC 09...	350	.5	JUL 13...	200	15.0
30...	300	.5	AUG 15...	--	17.0
MAR 24...	340	1.0			

09250000 - MILK CREEK NEAR THORNBURGH, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 13...	910	11.5	JUN 09...	--	23.0
NOV 24...	1000	2.0	JUL 14...	1100	22.0
MAR 21...	800	6.0	SEP 13...	1100	24.0
MAY 06...	230	8.0			

09253000 - LITTLE SNAKE RIVER NEAR SLATER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 05...	150	11.0	MAY 04...	110	5.5
DEC 03...	300	.5	JUN 01...	70	12.5
FEB 10...	160	.0	JUL 12...	125	15.0
MAR 23...	210	.0	SEP 12...	--	16.0

09255000 - SLATER FORK NEAR SLATER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 05...	220	8.0	JUN 01...	200	15.5
DEC 03...	210	.5	JUL 12...	200	16.0
FEB 10...	180	.0	AUG 24...	255	19.0
MAR 23...	220	1.0	SEP 12...	240	16.5
MAY 04...	130	6.0			

09258000 - WILLOW CREEK NEAR DIXON, WY.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 05...	135	6.5	MAY 04...	120	6.5
FEB 10...	130	.0	JUN 01...	90	19.0
MAR 23...	210	1.0	JUL 12...	130	15.5

09302450 - LOST CREEK NEAR BUFORD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 07...	400	3.0	APR 04...	400	1.0
NOV 04...	425	1.0	MAY 11...	235	4.0
DEC 13...	420	.0	JUN 09...	315	16.5
JAN 25...	440	.5	JUL 28...	490	15.0
FEB 24...	410	.0	AUG 23...	470	19.5
MAR 31...	370	1.0	SEP 12...	440	12.0

09302500 - MARVINE CREEK NEAR BUFORD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 12...	320	5.0	APR 28...	320	6.0
NOV 04...	300	4.0	MAY 11...	290	6.0
DEC 14...	320	.0	JUN 21...	330	10.0
JAN 26...	310	.5	JUL 28...	350	14.5
FEB 24...	320	1.5	AUG 25...	310	15.5
MAR 25...	330	3.5	SEP 12...	330	11.0

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA AT SELECTED SITES

09303300 - SOUTH FORK WHITE RIVER AT BUDGES RESORT, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
FEB 15...	135	.0	JUN 14...	160	11.0
APR 06...	160	--			

09303400 - SOUTH FORK WHITE RIVER NEAR BUDGES RESORT, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 05...	200	7.0	APR 28...	205	6.5
NOV 15...	220	.5	MAY 20...	200	4.0
DEC 03...	220	.0	JUN 02...	160	9.0
JAN 21...	200	.5	JUL 26...	225	15.0
FEB 28...	210	.5	AUG 26...	220	15.0
MAR 22...	200	1.0	SEP 19...	220	10.0

09303500 - SOUTH FORK WHITE RIVER NEAR BUFORD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 05...	240	7.0	APR 28...	220	8.0
NOV 15...	240	2.0	MAY 20...	240	6.5
DEC 03...	260	.0	JUN 30...	270	12.5
JAN 21...	240	.5	JUL 26...	260	17.0
FEB 28...	230	.5	AUG 26...	250	16.0
MAR 22...	230	2.0	SEP 19...	240	11.0

09304200 - WHITE RIVER ABOVE COAL CREEK, NEAR MEEKER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 15...	410	5.0	APR 26...	290	8.5
NOV 04...	400	6.0	MAY 18...	290	12.0
DEC 16...	430	.0	JUN 21...	460	18.0
JAN 18...	390	.5	JUL 06...	460	19.5
FEB 16...	410	2.0	AUG 18...	480	15.0
MAR 15...	430	1.0			

09304500 - WHITE RIVER NEAR MEEKER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 15...	750	9.0	MAY 11...	450	10.5
NOV 17...	625	.5	JUN 03...	--	12.0
DEC 16...	650	.5	JUL 07...	1000	16.0
JAN 18...	825	.5	AUG 26...	925	16.0
FEB 16...	1350	1.0	AUG 11...	1050	18.5
MAR 15...	725	.5	SEP 02...	1000	13.0
APR 19...	540	6.5	SEP 28...	655	14.0

09339900 - EF SAN JUAN R AB SAND CREEK, NR PAGOSA SPGS, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 04...	180	8.0	MAY 02...	130	15.0
NOV 02...	120	2.0	JUN 01...	110	16.0
DEC 01...	150	1.0	JUL 07...	120	22.0
MAR 30...	150	.0	AUG 01...	120	14.0
MAR 08...	150	1.0	SEP 08...	140	12.0
APR 05...	145	5.0			

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA AT SELECTED SITES

09340000 - EAST FORK SAN JUAN RIVER NR PAGOSA SPRINGS, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT			MAY		
05...	140	5.0	02...	110	15.0
NOV			JUN		
02...	130	2.0	02...	80	6.0
DEC			JUL		
01...	140	.0	07...	140	20.0
30...	150	.0	AUG		
FEB			01...	120	14.0
03...	130	1.0	SEP		
MAR			06...	120	11.0
07...	130	.0			
APR					
05...	150	4.0			

09342500 - SAN JUAN RIVER AT PAGOSA SPRINGS, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT			APR		
05...	120	8.0	05...	180	11.0
26...	130	7.0	MAY		
NOV			03...	130	7.0
04...	200	7.0	JUN		
DEC			02...	100	11.0
01...	120	4.0	JUL		
30...	180	4.0	08...	190	17.0
FEB			AUG		
03...	185	2.0	02...	180	14.0
MAR			SEP		
08...	130	1.0	08...	250	20.0

09346000 - NAVAJO RIVER AT EDITH, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT			MAY		
05...	240	5.0	03...	180	6.0
NOV			JUN		
02...	200	1.0	02...	160	10.0
DEC			JUL		
02...	270	.0	08...	350	12.0
30...	260	.0	AUG		
FEB			02...	340	8.0
03...	270	1.0	SEP		
MAR			06...	320	7.0
08...	230	.0			
APR					
04...	250	10.0			

09354500 - LOS PINOS RIVER AT LA BOCA, COLO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 26...	--	7.0	DEC 30...	260	.0
NOV 15...	--	7.0			
29...	--	.0			

09355000 - SPRING CREEK AT LA BOCA, COLORADO

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 26...	--	4.0	DEC 30...	260	.0
NOV 15...	--	5.0			
29...	--	.0			

09361000 - HERMOSA CREEK NEAR HERMOSA, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 29...	590	6.0	MAY 11...	460	9.0
NOV 30...	920	1.0	26...	450	9.0
JAN 05...	740	.0	JUN 24...	640	12.0
FEB 04...	800	1.0	JUL 28...	450	16.5
MAR 03...	720	.0	SEP 01...	600	12.0
21...	850	6.5	28...	640	15.0
APR 26...	480	6.0			

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA AT SELECTED SITES

09361500 - ANIMAS RIVER AT DURANGO, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 25...	480	8.0	MAY 11...	350	9.0
NOV 22...	530	7.0	25...	460	12.0
DEC 17...	600	4.0	JUN 03...	310	12.0
JAN 24...	750	3.0	24...	520	16.0
FEB 22...	730	6.0	JUL 25...	490	17.0
MAR 22...	770	10.0	AUG 25...	420	14.5
APR 25...	440	10.0	SEP 23...	550	12.5

09363050 - FLORIDA R BL FLOR FARMERS DITCH, NR DURANGO, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 29...	240	4.0	APR 26...	280	6.0
NOV 30...	210	3.0	MAY 26...	210	9.0
DEC 27...	260	.0	JUN 30...	210	13.5
JAN 25...	250	2.0	JUL 28...	240	17.5
FEB 23...	300	1.0	AUG 31...	210	14.0
MAR 23...	290	5.0	SEP 28...	215	13.5

09363100 - SALT CREEK NEAR OXFORD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT 29...	260	7.0	APR 26...	1350	15.0
DEC 01...	900	1.0	MAY 26...	280	11.0
27...	1700	1.0	JUN 30...	300	17.0
JAN 25...	1280	2.0	JUL 28...	500	21.0
MAR 03...	900	2.0	AUG 29...	370	14.0
23...	900	7.0			

09363200 - FLORIDA RIVER AT BONDAD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT			MAY		
29...	490	6.0	26...	490	11.5
DEC			JUN		
01...	560	1.0	30...	510	16.0
27...	520	1.0	JUL		
JAN			28...	520	18.0
25...	540	1.5	AUG		
FEB			29...	510	26.0
23...	550	5.0	SEP		
MAR			28...	535	16.0
23...	450	7.0			
APR					
26...	540	10.0			

09371000 - MANCOS RIVER NEAR TOWAOC, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT			MAR		
01...	1800	16.0	25...	2200	8.0
27...	2000	7.0	APR		
NOV			27...	3500	16.0
23...	2000	3.0	JUL		
DEC			26...	1130	24.0
29...	2100	.0	AUG		
JAN			26...	620	22.0
26...	2200	.0			
FEB					
28...	2300	5.0			

09371420 - MCELMO CREEK ABOVE ALKALI CANYON, NR CORTEZ, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTFMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT			MAY		
01...	3250	10.0	09...	4400	17.0
28...	2800	4.0	JUN		
NOV			07...	3600	22.0
29...	2900	.0	JUL		
DEC			12...	3630	26.0
28...	3600	.0	AUG		
FEB			10...	3000	20.0
17...	3400	2.0	SEP		
MAR			13...	2400	17.0
14...	4000	2.0			
APR					
13...	3500	11.0			

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA AT SELECTED SITES

09372000 - MCELMO CREEK NEAR COLORADO-UTAH STATE LINE

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT			APR		
01...	3000	15.0	27...	4500	22.0
27...	2900	11.0	MAY		
NOV			24...	3900	11.0
29...	3000	.0	JUN		
DEC			27...	4500	27.0
28...	3500	.0	JUL		
JAN			26...	2480	27.0
26...	3000	.0	AUG		
FEB			29...	4500	20.0
28...	3400	1.0	SEP		
MAR			26...	4000	24.0
25...	3600	8.0			

09371700 - MCELMO CREEK BELOW CORTEZ, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT			APR		
01...	2750	12.0	27...	3500	22.0
27...	2800	10.0	MAY		
NOV			24...	2400	14.0
29...	3000	.0	JUN		
DEC			27...	2200	24.0
28...	3250	.0	JUL		
JAN			26...	2500	24.0
26...	3000	.0	AUG		
FEB			29...	3400	14.5
28...	3500	1.0	SEP		
MAR			26...	3500	10.0
25...	3500	10.0			

400612106524800 - CHIMNEY CREEK AT TRAPPER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)
DEC 02...	1330	2.0	730	7.8	.0	9.9	2.6	67	360	160	100
MAR 04...	1000	1.9	720	7.9	.0	10.4	.3	<1	340	170	92
JUN 06...	1530	5.1	780	8.3	16.5	7.1	2.5	550	460	300	130
SEP 01...	0915	1.5	750	8.4	9.0	8.0	--	--	390	180	110
01...	1150	--	--	--	--	--	1.3	750	--	--	--

DATE	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)
DEC 02...	27	25	.6	3.4	247	0	203	200	3.4	.2	26
MAR 04...	27	26	.6	4.5	211	0	173	200	3.8	.2	28
JUN 06...	32	22	.4	2.9	192	0	157	200	2.3	.3	20
SEP 01...	27	22	.5	4.0	257	0	210	210	3.2	.2	24
01...	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- HYDRO- LYZABLE PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORGANIC PHOS- PHORUS (P) (MG/L)
DEC 02...	508	2.80	.32	.31	.51	.42	.00	.03	.01	.02	.00
MAR 04...	487	2.50	.34	.32	.48	.56	.08	.02	.02	--	--
JUN 06...	504	6.94	.03	.01	.79	.65	.09	.07	--	--	--
SEP 01...	528	2.14	.06	.06	.71	.56	.10	.02	.04	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN THE YAMPA RIVER BASIN

400612106524800 - CHIMNEY CREEK AT TRAPPER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ANTI-MONY (SR) (UG/L)	DIS-SOLVED ANTI-MONY (SR) (UG/L)	TOTAL ANTI-MONY IN BOTTOM MA-TERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 02...	--	--	--	--	--	--	--	--	--	--	--	<10
MAR 04...	0	0	1	4	2	5	<10	9	7	<50	0	10
JUN 06...	1	4	1	3	2	0	<10	0	<10	<50	0	<10
SEP 01...	0	0	--	3	2	--	<10	1	6	<50	1	<10

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
DEC 02...	0	--	--	50	--	--	--	--	--	100	--	--
MAR 04...	2	19	1000	60	20000	<100	24	14	150	120	.0	.1
JUN 06...	0	20	740	150	15000	--	--	<10	60	40	.1	.1
SEP 01...	0	12	1400	20	8200	<100	1	30	90	60	.0	.0

DATE	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)
DEC 02...	--	--	--	--	--	--	--	10	0	22	.3
MAR 04...	.1	<50	3	70	3	3	1.9	20	20	5.9	.9
JUN 06...	.0	<50	4	<10	0	0	7.4	30	20	5.4	--
SEP 01...	.1	<50	2	30	2	2	2.4	10	0	7.9	.7

401418106562200 - YAMPA RIVER AT PHIPPSBURG, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
DEC 08...	1400	E60	330	8.0	.5	7	11.5	1.2	170
MAR 01...	1300	90	325	7.1	.0	10	10.6	1.7	92
JUN 06...	1600	--	--	--	--	--	--	--	--
07...	1230	100	490	8.4	15.5	8	9.3	2.4	240
AUG 30...	1400	67	380	8.4	14.5	--	9.1	--	--
SEP 01...	1205	--	--	--	--	--	--	2.3	50

DATE	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
DEC 08...	--	--	.14	.14	.12	.03	.03	.02
MAR 01...	--	--	.23	.22	.88	.30	.11	.04
JUN 06...	330	13	--	--	--	--	--	--
07...	--	--	.00	.00	.76	.49	.08	.04
AUG 30...	--	--	.02	.01	.24	.25	.08	.04
SEP 01...	--	--	--	--	--	--	--	--

E ESTIMATED.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN THE YAMPA RIVER BASIN

401418106562200 - YAMPA RIVER AT PHIPPSBURG, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-13/ (PC/L)	SUS- PENDED GROSS BETA AS CS-13/ (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL PCB (UG/L)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)	TOTAL ALDRIN (UG/L)
JUN 06...	1600	<4.3	.9	4.1	.9	3.3	.8	.0	.00	.00

DATE	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI- ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)
JUN 06...	.0	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL LINDANE (UG/L)	TOTAL MALA- THION (UG/L)	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL TOX- APHENE (UG/L)	TOTAL TRI- THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
JUN 06...	.00	.00	.00	.00	0	.00	.00	.00	.00

401601107395300 - STINKING GULCH NEAR THRONBURGH, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH (UNITS)	TEMPERATURE (DEG. C)	DIS- SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
DEC 03...	1500	.83	2200	8.3	.0	11.1	2.1	2.1	2.1	.92	.00	.00
MAR 01...	1430	7.0	745	8.2	.5	10.6	.64	.61	5.0	.80	.05	.04
JUN 07...	1500	10	625	8.6	19.5	7.6	.18	.16	1.4	.53	.62	.01
AUG 30...	1330	.38	3900	8.5	21.0	8.1	1.7	1.6	.61	.57	.05	.00

DATE	TOTAL ANTI- MONY (SB) (UG/L)	DIS- SOLVED ANTI- MONY (SB) (UG/L)	TOTAL ANTI- MONY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 03...	0	0	1	6	0	12	<10	1	2	100	1	10
MAR 01...	7	0	5	340	0	11	20	1	9	150	0	270
JUN 07...	1	0	2	12	1	9	<10	0	<10	<50	0	20
AUG 30...	0	0	0	1	1	8	<10	0	5	<50	0	20

DATE	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
DEC 03...	4	33	6300	50	16000	<100	4	25	210	60	.1	.0
MAR 01...	4	15	260000	110	14000	400	2	10	4200	40	.4	.0
JUN 07...	2	20	16000	70	20000	<100	0	20	200	10	.0	.0
AUG 30...	1	12	1200	30	6100	<100	0	25	180	150	.0	.0

DATE	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL SELE- NIUM IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDED ORGANIC CARBON (C) (MG/L)
DEC 03...	.0	50	2	18	28	27	1	.4	50	40	25	1.8
MAR 01...	.2	400	2	20	11	11	--	1.3	1400	10	9.3	--
JUN 07...	.0	<50	0	<10	7	2	--	3.7	100	0	7.0	--
AUG 30...	.2	50	3	16	42	42	--	.9	20	10	11	.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN THE YAMPA RIVER BASIN

401634106502200 - LITTLE MORRISON CREEK NEAR STAGECOACH, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)
DEC 08...	1530	1.5	300	7.9	.0	3	10.5	1.0
MAR 01...	0900	1.1	300	6.7	.0	3	10.5	.7
JUN 07...	1430	1.6	215	8.0	19.0	6	7.1	2.6
AUG 30...	1530	E.26	320	7.9	17.5	--	7.2	--
SEP 01...	1245	--	--	--	--	--	--	1.6

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL- NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)
DEC 08...	69	.19	.19	.51	.57	.16	.17
MAR 01...	20	.28	.27	.49	.48	.17	.14
JUN 07...	340	.06	.05	.53	.46	.12	.12
AUG 30...	--	.30	.24	1.6	1.0	.51	.34
SEP 01...	680	--	--	--	--	--	--

E ESTIMATED.

401725106575600 - OAK CREEK AH OAK CREEK DRAIN NEAR OAK CREEK, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPECIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)
DEC 08...	1100	E2.5	270	7.5	.5	5	9.2	3.3
MAR 03...	1300	E3.7	500	7.5	.0	4	10.1	2.8
JUN 07...	1545	E4.0	400	7.6	15.5	3	6.5	3.2
AUG 30...	1200	E2.7	340	7.5	14.0	--	6.0	--
SEP 01...	1130	--	--	--	--	--	--	1.8

DATE	IMME- DIATE COLI- FORM (COL. PER 100 ML)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
DEC 08...	120	.43	.31	1.8	1.7	.42	.34
MAR 03...	19	.41	.41	1.6	1.3	.26	.25
JUN 07...	190	.12	.10	.50	.39	.17	.14
AUG 30...	--	.48	.46	.58	.78	.39	.34
SEP 01...	140	--	--	--	--	--	--

E ESTIMATED.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN THE YAMPA RIVER BASIN

401729106575400 - OAK CREEK DRAIN NEAR OAK CREEK, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DIS-SOLVED KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)
DEC 02...	0900	.15	2800	7.0	12.0	.5	.06	.01	1.7	1.5	.00	.00
MAR 05...	1100	E.30	4400	6.3	1.0	.8	--	11	1.3	.96	.00	.00
JUN 07...	1630	E1.0	--	6.7	12.5	.2	.01	.01	.95	.92	.00	.00
SEP 01...	1345	.22	3000	6.8	13.0	.6	.01	.01	.79	.79	.00	.00

DATE	TOTAL ANTIMONY (SR) (UG/L)	DIS-SOLVED ANTIMONY (SR) (UG/L)	TOTAL ANTIMONY IN BOTTOM MATERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 02...	1	0	1	2	2	63	<10	0	0	150	3	10
MAR 05...	0	0	2	4	4	19	10	3	4	50	2	20
JUN 07...	0	0	1	3	2	38	<10	0	<10	<50	2	<10
SEP 01...	0	0	0	3	2	20	<10	0	2	<50	2	10

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
DEC 02...	1	10	14000	13000	31000	<100	1	5	1900	1600	.0	.0
MAR 05...	1	6	12000	10000	52000	100	8	14	1800	1800	.0	.0
JUN 07...	0	40	10000	8600	66000	<100	0	<10	1500	1500	.0	.0
SEP 01...	0	3	14000	13000	170000	100	0	30	2100	2200	.0	.0

DATE	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MATERIAL (UG/G)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	TOTAL SELENIUM IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)
DEC 02...	.0	50	9	42	0	0	0	3.7	10	20	2.9	.3
MAR 05...	.3	<50	9	10	0	0	--	2.9	20	10	19	--
JUN 07...	.1	<50	10	20	0	0	--	4.7	20	20	3.3	--
SEP 01...	.1	<50	7	100	0	0	--	1.6	10	10	3.0	.2

E ESTIMATED.

401741106574600 - OAK CREEK ABOVE ROUTT, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)
DEC 01...	1500	2.3	620	8.2	.0	10.1	.52	.52	.91	.91	.13	.05
MAR 04...	1500	4.0	600	7.9	.0	10.1	.71	.67	1.3	1.0	.19	.11
JUN 07...	1530	16	530	8.1	14.0	8.2	.12	.10	.60	.38	.21	.07
SEP 01...	1530	3.3	600	7.9	16.0	7.9	.47	.46	.33	.23	.18	.07
DATE	TOTAL ANTI- MONY (SH) (UG/L)	DIS- SOLVED ANTI- MONY (SB) (UG/L)	TOTAL ANTI- MONY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CAD- MIUM (CU) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 01...	1	1	0	0	0	12	<10	1	2	<50	1	<10
MAR 04...	0	0	1	3	1	13	<10	3	2	<50	2	<10
JUN 07...	0	0	2	1	1	7	<10	1	<10	<50	0	<10
SEP 01...	0	0	0	1	1	10	<10	1	5	<50	1	10
DATE	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
DEC 01...	2	15	850	130	16000	<100	8	12	170	170	.1	.0
MAR 04...	2	6	910	240	21000	<100	10	14	260	260	.0	.0
JUN 07...	1	20	1700	170	13000	<100	5	10	140	90	.0	.0
SEP 01...	1	9	820	10	7500	<100	6	20	130	120	.0	.0
DATE	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL SELE- NIUM IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ORGANIC CARBON (C) (MG/L)	SUS- PENDED ORGANIC CARBON (C) (MG/L)
DEC 01...	.0	<50	2	14	0	0	0	.2	10	20	8.9	.8
MAR 04...	.1	<50	2	10	0	0	--	.4	30	10	5.0	--
JUN 07...	.1	<50	0	20	0	0	--	2.6	20	10	6.2	--
SEP 01...	.2	<50	2	10	0	0	--	1.6	10	10	4.1	.5

E ESTIMATED.

401857107243500 - SOUTH FORK OF WILLIAMS FORK AT MO NR PAGODA, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	DIS-SOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)
DEC 04...	1200	9.4	440	8.3	.0	11.2	.07	.05	.42	.30	.00	.00
MAR 02...	1400	11	480	8.1	.0	11.2	.08	.06	--	.38	.01	.00
JUN 08...	1100	155	175	8.3	9.5	9.2	.01	.00	.39	.22	.20	.01
AUG 31...	1115	4.6	530	8.5	16.0	7.8	.01	.00	--	.32	.04	.00

DATE	TOTAL ANTIMONY (SR) (UG/L)	DIS-SOLVED ANTIMONY (SB) (UG/L)	TOTAL ANTIMONY IN BOTTOM MATERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 04...	0	0	2	0	0	8	<10	0	0	<50	0	<10
MAR 02...	0	0	--	1	1	--	<10	1	--	<50	0	10
JUN 08...	0	0	1	1	0	3	<10	0	<10	<50	0	<10
AUG 31...	0	0	0	1	1	3	<10	0	3	<50	1	<10

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
DEC 04...	0	13	380	20	120	<100	1	15	30	20	.0	.0
MAR 02...	1	--	660	20	--	<100	2	--	80	60	.0	.0
JUN 08...	2	10	2100	90	18000	<100	0	10	30	10	.0	.0
AUG 31...	1	5	660	20	4300	<100	2	10	50	30	.0	.0

DATE	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MATERIAL (UG/G)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	TOTAL SELENIUM IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)
DEC 04...	.0	<50	0	15	1	0	0	.3	10	0	4.9	.3
MAR 02...	--	<50	2	--	1	0	--	.6	10	0	4.0	.4
JUN 08...	.0	<50	0	10	0	0	--	2.6	10	10	8.2	--
AUG 31...	.1	<50	2	8	0	0	--	1.1	10	0	6.7	1.1

402056106471600 - HARRISON CREEK AT MOUTH NR BLACKTAIL MTN. CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
DEC 03...	1600	10	57	7.3	.5	0	10.5	2.2	<1
JUN 08...	1445	E190	29	6.8	8.0	1	9.2	3.5	11
SEP 01...	1315	--	--	--	--	--	--	1.9	20
01...	1445	11	59	7.0	11.0	--	9.3	--	--

E ESTIMATED.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN THE YAMPA RIVER BASIN

402152107301300 - WILLIAMS FORK BL JEFFWAY GULCH NR HAMILTON, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
DEC 04...	1500	41	340	8.3	.0	12.2	.03	.03	.38	.12	.00	.00
MAR 02...	1545	56	350	8.1	.0	9.6	.15	.15	1.3	.77	.13	.03
JUN 08...	1500	519	160	8.3	13.0	8.8	.03	.02	.26	.23	.08	.02
AUG 31...	1400	29	335	8.6	20.0	7.8	.02	.00	.34	.20	.02	.00

DATE	TOTAL ANTI- MONY (SR) (UG/L)	DIS- SOLVED ANTI- MONY (SB) (UG/L)	TOTAL ANTI- MONY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 04...	0	0	0	0	0	4	<10	0	2	<50	1	10
MAR 02...	0	0	3	1	0	8	<10	1	7	<50	2	10
JUN 08...	0	0	1	2	0	4	<10	0	<10	<50	0	<10
AUG 31...	0	0	0	1	1	3	<10	1	4	<50	0	<10

DATE	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
DEC 04...	3	8	900	10	6400	<100	3	25	50	10	.0	.0
MAR 02...	1	10	1800	70	12000	<100	3	10	100	40	.0	.0
JUN 08...	2	<10	1900	90	14000	<100	0	<10	30	10	.0	.0
AUG 31...	1	7	230	30	6500	<100	2	10	30	10	.0	.0

DATE	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL SELE- NIUM IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PEN- DED ORGANIC CARBON (C) (MG/L)
DEC 04...	.0	<50	0	10	0	0	0	.5	0	0	3.5	.4
MAR 02...	.0	50	1	15	1	1	--	1.1	0	0	9.7	.8
JUN 08...	.0	<50	0	<10	0	0	--	3.2	20	10	6.2	--
AUG 31...	.1	<50	1	12	0	0	--	14	0	0	5.1	1.1

402154107453100 - MILK CREEK NEAR MOUTH NEAR AXIAL, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH. (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
DEC 05...	1130	14	2100	8.3	.0	10.6	.21	.21	.76	.69	.00	.00
MAR 03...	1230	26	1990	8.7	.0	10.3	.30	.26	2.3	.66	.90	.02
JUN 08...	0830	26	1380	8.5	13.0	8.2	.07	.06	.64	.58	.20	.02
AUG 31...	0900	7.0	2500	8.5	11.5	8.4	.10	.09	.69	.37	.16	.01

DATE	TOTAL ANTI- MONY (SB) (UG/L)	DIS- SOLVED ANTI- MONY (SB) (UG/L)	TOTAL ANTI- MONY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 05...	0	0	0	0	0	5	<10	3	1	<50	1	10
MAR 03...	1	0	2	20	2	5	<10	1	3	<50	0	30
JUN 08...	0	0	1	3	1	5	<10	0	<10	<50	0	10
AUG 31...	0	0	0	3	2	0	<10	0	2	<50	2	10

DATE	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
DEC 05...	19	6	2300	80	7600	<100	7	12	130	60	.0	.0
MAR 03...	2	3	23000	30	6000	100	2	6	630	50	.0	.0
JUN 08...	2	<10	4600	50	12000	<100	0	<10	100	80	.0	.0
AUG 31...	0	3	3200	30	1600	<100	0	10	100	20	.1	.0

DATE	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL SELE- NIUM IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDED ORGANIC CARBON (C) (MG/L)
DEC 05...	.0	<50	5	10	3	1	0	1.7	10	20	15	.6
MAR 03...	.1	100	4	4	4	3	--	1.3	120	10	8.5	.5
JUN 08...	.0	<50	0	<10	0	0	--	2.6	30	10	6.4	--
AUG 31...	.0	<50	2	4	3	3	--	2.3	20	10	11	1.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN THE YAMPA RIVER BASIN

402330107082000 - GRASSY CREEK AT GRASSY GAP, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)
DEC 04...	1300	E.04	830	7.9	2.0	8.4	2.9	2.9	1.2	.95	.02	.02
MAR 03...	1400	1.3	3200	7.7	.0	9.0	.52	.50	.86	.58	.17	.11
JUN 09...	0930	.21	515	8.4	14.5	8.5	.01	.01	.50	.40	.12	.05

DATE	TOTAL ANTI- MONY (SB) (UG/L)	DIS- SOLVED ANTI- MONY (SB) (UG/L)	TOTAL ANTI- MONY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 04...	0	0	1	0	0	12	<10	0	3	<50	1	<10
MAR 03...	1	0	1	0	0	6	<10	1	7	<50	0	10
JUN 09...	0	0	2	1	1	2	<10	0	<10	<50	0	<10

DATE	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
DEC 04...	3	17	690	0	13000	<100	3	18	400	360	.0	.0
MAR 03...	2	14	660	110	14000	<100	3	20	270	230	.0	.0
JUN 09...	0	10	1300	20	11000	<100	0	50	180	120	.0	.0
SEP 01...	--	16	--	--	11000	--	--	20	--	--	--	--

DATE	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL SELE- NIUM IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ORGANIC CARBON (C) (MG/L)	SUS- PENDED ORGANIC CARBON (C) (MG/L)
DEC 04...	.0	<50	2	20	3	1	0	.2	0	0	13	.4
MAR 03...	.1	<50	2	20	1	1	--	.9	0	0	11	--
JUN 09...	.1	<50	0	10	0	0	--	.6	30	0	9.7	--
SEP 01...	.1	--	--	16	--	--	--	--	--	--	--	--

E ESTIMATED.

402356106500000 - YAMPA RIVER AB OAK CREEK NR STEAMBOAT SPGS, CO.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)
DEC 02...	<100	2	10	30	10	.0	.0	.0	<50	1
MAR 05...	<100	3	14	80	60	.0	.2	.0	<50	2
JUN 11...	--	--	--	--	--	--	--	--	--	--
SEP 02...	<100	0	<10	40	60	.0	.0	.1	<50	0

DATE	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL SELE- NIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL SILVER IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDED ORGANIC CARBON (C) (MG/L)
DEC 02...	8	0	0	0	1	.7	10	0	3.7	.4
MAR 05...	30	0	0	--	--	.6	20	10	5.2	--
JUN 11...	--	--	--	--	--	--	--	--	--	--
SEP 02...	10	0	0	--	--	1.2	0	0	4.1	--

402356106500000 - YAMPA RIVER AB OAK CREEK NR STEAMBOAT SPGS. CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	RIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)
DEC 02...	0925	76	320	7.4	.0	--	10.4	--	--	.11	.11
MAR 05...	0900	E90	240	7.1	.0	--	11.0	--	--	.19	.18
JUN 11...	1015	764	95	7.1	8.5	4	8.8	2.5	230	.00	.00
SEP 02...	1120	67	300	8.4	15.5	--	8.8	--	--	.02	.01

DATE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	TOTAL ANTI- MONY (SB) (UG/L)	DIS- SOLVED ANTI- MONY (SB) (UG/L)	TOTAL ANTI- MONY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CAD- MIUM (CD) (UG/L)
DEC 02...	.22	.11	.00	.01	0	0	0	0	0	4	<10
MAR 05...	.30	.22	.03	.01	0	0	1	2	1	3	<10
JUN 11...	.21	.18	.05	.03	--	--	--	--	--	--	--
SEP 02...	.29	.05	.03	.02	0	0	0	2	1	3	<10

DATE	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)
DEC 02...	1	3	50	0	<10	0	8	380	90	16000
MAR 05...	1	8	<50	0	<10	1	12	500	200	13000
JUN 11...	--	--	--	--	--	--	--	--	--	--
SEP 02...	0	7	<50	0	<10	0	5	--	--	4500

E ESTIMATED.

402522107134100 - SAGE CREEK NEAR MOUNT HARRIS, CO.

WATER QUALITY DATA: WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
DEC 05...	0930	.39	760	8.3	1.0	11.3	.10	.10	.37	.38	.01	.00
MAR 04...	1200	E.50	790	8.3	.0	10.2	.41	.35	.56	.39	.04	.00
JUN 09...	1215	1.2	640	8.7	16.5	9.5	.02	.06	.48	.42	.05	.04
SEP 01...	1230	.04	780	8.4	16.5	11.6	.00	.00	.22	.23	.00	.00

DATE	TOTAL ANTI- MONY (SR) (UG/L)	DIS- SOLVED ANTI- MONY (SR) (UG/L)	TOTAL ANTI- MONY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 05...	3	3	2	0	0	12	<10	1	3	<50	1	10
MAR 04...	0	0	1	2	2	13	<10	1	7	<50	0	10
JUN 09...	0	0	2	1	0	6	<10	0	<10	<50	0	<10
SEP 01...	0	0	0	1	1	5	<10	0	4	<50	1	10

DATE	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
DEC 05...	0	13	540	30	28	<100	4	22	100	90	.0	.0
MAR 04...	2	10	1300	10	18000	<100	2	16	150	100	.0	.0
JUN 09...	1	<10	440	20	23000	<100	0	20	60	40	.0	.0
SEP 01...	1	5	30	20	5800	<100	0	10	20	20	.0	.0

DATE	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL SELE- NIUM IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOL- VED ORGA- NIC CARBON (C) (MG/L)	SUS- PEN- DED ORGANIC CARBON (C) (MG/L)
DEC 05...	.0	<50	2	13	0	0	0	.0	20	0	7.1	.4
MAR 04...	.3	50	2	8	0	0	--	.0	30	0	8.1	.3
JUN 09...	.1	<50	0	20	0	0	--	.6	10	0	32	--
SEP 01...	.0	<50	1	8	0	0	--	.2	10	10	7.2	.6

E ESTIMATED.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN THE YAMPA RIVER BASIN
402530106585700 - FISH CREEK AT MOUTH NEAR MILNER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
DEC 05...	1230	4.9	640	8.2	.0	11.0	.31	.31	.26	.21	.03	.01
MAR 02...	1000	88.0	620	7.7	.0	9.4	.61	.61	--	.66	.07	.02
JUN 07...	1330	11	540	8.8	20.0	9.1	.06	.06	.53	.35	.07	.04
AUG 31...	1605	.03	900	8.6	23.0	8.7	.00	.00	.62	.40	.05	.01

DATE	TOTAL ANTI- MONY (SB) (UG/L)	DIS- SOLVED ANTI- MONY (SB) (UG/L)	TOTAL ANTI- MONY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 05...	3	3	3	2	2	8	<10	0	4	<50	0	34
MAR 02...	0	0	--	1	0	--	<10	1	--	<50	0	10
JUN 07...	0	0	1	2	1	5	<10	0	<10	<50	0	<10
AUG 31...	0	0	0	2	1	3	<10	0	6	<50	0	<10

DATE	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
DEC 05...	1	26	1000	10	16000	<100	1	5	90	60	.0	.0
MAR 02...	2	--	1500	10	--	<100	1	--	80	40	.0	.0
JUN 07...	0	10	1700	40	11000	<100	0	<10	50	10	.0	.0
AUG 31...	1	5	530	20	7000	<100	0	10	190	100	.0	.0

DATE	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL SELE- NIUM IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDE D ORGANIC CARBON (C) (MG/L)
DEC 05...	.1	<50	4	20	1	0	0	.6	0	10	23	.6
MAR 02...	--	<50	1	--	2	1	--	1.2	0	0	8.2	1.0
JUN 07...	.0	<50	7	20	0	0	--	5.6	30	10	--	--
AUG 31...	.1	<50	1	10	0	0	--	1.7	0	0	12	.7

E ESTIMATED.

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WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN THE YAMPA RIVER BASIN

402802106471000 - BURGESS CREEK AR SKI AREA NR STEAMBOAT SPGS, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)
DEC 03...	1030	E.50	41	7.4	.5	1	10.7	2.2
MAR 03...	1030	E.80	--	6.4	.5	1	11.1	.0
MAY 21...	1030	20	--	6.7	4.5	--	--	--
JUN 04...	1100	--	30	6.4	7.0	--	9.4	--
08...	0930	11	29	6.4	6.0	1	9.4	3.6
17...	1000	--	31	--	5.0	--	--	--
AUG 31...	1300	E1.1	40	6.2	10.0	--	8.9	--
SEP 02...	0945	--	--	--	--	--	--	1.1

DATE	IMME- DIATE COLI- FORM (COL. PER 100 ML)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
DEC 03...	2	--	--	--	--	--	--
MAR 03...	<1	--	--	--	--	--	--
MAY 21...	--	.12	.12	.11	.12	.01	.00
JUN 04...	--	.03	.04	.16	.08	.01	.00
08...	4	--	--	--	--	--	--
17...	--	.01	.01	.14	.11	.01	.01
AUG 31...	--	--	--	--	--	--	--
SEP 02...	4	--	--	--	--	--	--

402720106481500 - BURGESS CREEK HL SKI AREA NR STEAMBOAT SPGS, CO. I

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
DEC 03...	1130	E.75	80	7.4	.5	3	10.6	2.4	7
MAR 02...	1345	1.9	--	6.8	.5	60	10.8	4.2	21
JUN 08...	1100	14	38	6.4	7.5	2	9.0	4.5	47
AUG 31...	1145	E.80	80	7.2	13.5	--	9.3	--	--
SEP 02...	1015	--	--	--	--	--	--	1.3	190

E ESTIMATED.

402811108384500 - YAMPA R AT RIVER MILE 36 IN DINOSAUR NAT MON, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL ANTI-MONY IN BOTTOM MATERIAL (UG/G)
AUG 17...	1830	346	450	8.4	18.5	7.8	0

DATE	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MATERIAL (UG/G)
AUG 17...	5	7	12	6500	20	.3	15

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN THE YAMPA RIVER BASIN

402854107020500 - YAMPA RIVER BELOW TROUT CREEK AT MILNER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	DIS-SOLVED KJEL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)
DEC 05...	1730	E185	300	9.1	.0	10.5	.18	.15	--	.42	.02	.01
MAR 02...	1100	E180	300	7.3	.0	8.8	.33	.33	.38	.38	.08	.03
JUN 09...	1130	4970	70	7.8	9.0	8.2	.01	.01	.28	.20	.05	.01
AUG 31...	1730	161	280	9.0	18.0	8.7	.01	.01	.35	.20	.03	.02

DATE	TOTAL ANTIMONY (SB) (UG/L)	DIS-SOLVED ANTIMONY (SB) (UG/L)	TOTAL ANTIMONY IN BOTTOM MATERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 05...	0	0	--	0	0	--	<10	1	--	<50	0	<10
MAR 02...	0	0	1	1	0	8	<10	2	8	<50	0	10
JUN 09...	0	0	0	1	0	2	<10	1	<10	<50	0	<10
AUG 31...	0	0	0	1	1	3	<10	0	6	<50	1	<10

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
DEC 05...	8	--	200	50	--	<100	3	--	20	20	.1	.0
MAR 02...	2	19	490	90	12000	<100	9	10	50	20	.0	.0
JUN 09...	0	<10	740	100	9900	<100	4	<10	10	10	.4	.3
AUG 31...	0	5	210	30	6000	<100	0	<10	20	20	.0	.0

DATE	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MATERIAL (UG/G)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)
DEC 05...	--	<50	2	--	0	0	.2	20	20	8.4	.5
MAR 02...	.3	<50	1	10	0	0	.6	0	0	4.5	.6
JUN 09...	.1	<50	0	<10	0	0	.8	30	20	6.4	--
AUG 31...	.1	<50	0	5	0	0	1.1	0	0	6.9	.9

E ESTIMATED.

402910108515300 - YAMPA R AT RIVER MILE 15 IN DINOSAUR NAT MON, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL ANTIMONY IN BOTTOM MATERIAL (UG/G)
AUG 19...	0900	355	475	8.5	19.0	7.5	0

DATE	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MATERIAL (UG/G)
AUG 19...	5	6	9	5500	20	.1	15

402918107094400 - SAGE CREEK NEAR HAYDEN, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
DEC 05...	1030	1.0	2750	8.0	9.0	--	.20	.20	1.7	.00	.79	.78
MAR 03...	1300	2.0	950	7.7	2.0	8.8	15	14	2.2	2.2	.22	.18
JUN 09...	1530	.16	1000	8.5	21.5	11.1	.06	.06	.36	.43	.07	.03
SEP 01...	0930	1.4	305	8.1	10.5	10.4	.16	.14	.21	.16	.06	.06

DATE	TOTAL ANTI- MONY (SR) (UG/L)	DIS- SOLVED ANTI- MONY (SB) (UG/L)	TOTAL ANTI- MONY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 05...	1	0	1	16	13	10	<10	0	2	<50	2	30
MAR 03...	0	0	4	0	0	6	10	2	7	<50	0	10
JUN 09...	0	0	2	1	0	2	<10	1	<10	<50	0	<10
SEP 01...	0	0	--	1	1	--	<10	0	8	<50	0	<10

DATE	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
DEC 05...	50	290	630	70	10000	<100	3	18	320	270	.0	.0
MAR 03...	4	91	250	60	11000	<100	5	10	320	250	.0	.0
JUN 09...	3	20	300	10	9300	<100	0	20	600	460	.0	.0
SEP 01...	1	72	80	20	8500	<100	0	20	30	10	.0	.0

DATE	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL SELE- NIUM IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDE- D ORGANIC CARBON (C) (MG/L)
DEC 05...	.0	<50	2	14	3	3	0	4.1	0	0	19	1.0
MAR 03...	.0	50	4	5	52	52	--	2.1	10	0	18	--
JUN 09...	.1	<50	0	<10	1	0	--	1.0	10	0	6.9	--
SEP 01...	.4	<50	0	16	5	5	--	1.8	0	0	5.2	.6

402930107174200 - YAMPA RIVER BELOW HAYDEN, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	DIS-SOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)
DEC 04...	1100	E250	240	8.1	.0	11.5	.18	.18	.38	.20	.00	.00
MAR 03...	1130	E240	400	8.6	.0	9.2	.74	.73	.47	.59	.09	.06
JUN 08...	1400	S220	75	7.7	10.5	8.4	.03	.03	.25	.20	.04	.02
AUG 31...	1220	136	300	8.2	20.0	9.6	.01	.00	.47	.15	.03	.01

DATE	TOTAL ANTIMONY (SB) (UG/L)	DIS-SOLVED ANTIMONY (SB) (UG/L)	TOTAL ANTIMONY IN BOTTOM MATERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 04...	0	0	0	0	0	7	<10	0	2	<50	1	<10
MAR 03...	3	0	--	1	0	4	<10	3	7	<50	0	10
JUN 08...	0	0	1	1	1	4	<10	1	10	<50	0	<10
AUG 31...	0	0	0	1	1	3	<10	0	5	<50	0	<10

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
DEC 04...	1	10	190	20	92000	<100	3	18	30	10	.0	.0
MAR 03...	3	10	480	60	340	<100	11	10	80	40	.0	.0
JUN 08...	4	20	910	100	9800	<100	3	<10	30	0	.0	.0
AUG 31...	1	4	390	30	5200	<100	0	<10	70	30	.0	.0

DATE	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MATERIAL (UG/G)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	TOTAL SELENIUM IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)
DEC 04...	.0	<50	1	15	0	0	0	.2	0	0	7.1	.3
MAR 03...	.0	<50	1	25	1	1	--	.6	10	10	6.0	--
JUN 08...	.1	<50	3	10	0	0	--	2.6	20	20	5.3	--
AUG 31...	.0	<50	2	5	0	0	--	1.4	0	0	5.5	1.3

E ESTIMATED.

402932106564900 - YAMPA RIVER ABOVE ELK RIVER NEAR MILNER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DIS-SOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)
DEC 04...	1600	E80	300	8.2	.5	12.9	.28	.14	--	--	.07	.05
MAR 01...	1400	E100	340	7.7	.0	10.0	.29	.26	.87	.59	.12	.08
JUN 09...	1000	1860	80	7.7	9.0	9.0	.01	.01	.26	.22	.03	.05
AUG 30...	1620	90	360	9.1	20.0	8.8	.01	.01	.38	.23	.10	.07

DATE	TOTAL ANTIMONY (SB) (UG/L)	DIS-SOLVED ANTIMONY (SB) (UG/L)	TOTAL ANTIMONY IN BOTTOM MATERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 04...	3	3	2	0	0	3	<10	0	0	<50	1	10
MAR 01...	0	0	0	2	2	2	<10	1	4	<50	0	<10
JUN 09...	0	0	1	0	0	2	<10	1	10	<50	0	<10
AUG 30...	0	0	0	2	2	3	<10	1	10	<50	1	<10

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
DEC 04...	1	13	300	30	57	<100	2	5	30	20	.0	.0
MAR 01...	1	4	260	40	6200	<100	4	8	20	30	.0	.0
JUN 09...	1	10	430	100	13000	<100	0	10	20	10	.0	.0
AUG 30...	3	5	260	20	7500	<100	4	30	40	20	.0	.0

DATE	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MATERIAL (UG/G)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	TOTAL SELENIUM IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)
DEC 04...	.0	<50	3	6	0	0	0	.5	20	0	7.2	.7
MAR 01...	.5	<50	2	4	0	0	--	.3	40	0	5.4	.9
JUN 09...	.1	<50	0	10	0	0	--	.8	20	20	5.8	--
AUG 30...	.2	<50	0	<10	0	0	--	.8	0	0	6.0	.2

E ESTIMATED.

402934106505400 - YAMPA RIVER AB SEWAGE PLANT BL STEAMBOAT SPG.CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)
DEC 09...	1030	122	360	7.3	.5	3	11.5	1.2
MAR 02...	1230	107	--	6.7	1.0	4	10.6	.6
JUN 11...	0830	1860	51	6.3	5.5	3	9.4	1.2
SEP 01...	1400	--	--	--	--	--	--	1.4
02...	1400	115	400	8.4	19.0	--	10.6	--

DATE	IMME- DIATE COLI- FORM (COL. PER 100 ML)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
DEC 09...	64	.11	.10	.22	.22	.00	.00
MAR 02...	400	.21	.21	.47	.30	.05	.04
JUN 11...	230	.01	.01	.19	.16	.04	.02
SEP 01...	8	--	--	--	--	--	--
02...	--	.02	.00	.22	.27	.02	.02

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN THE YAMPA RIVER BASIN

403006107154800 - YAMPA RIVER AT HAYDEN, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	DIS-SOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)
DEC 04...	0830	226	300	8.1	.5	11.0	.15	.15	.22	.20	.00	.00
MAR 04...	1400	E230	430	7.3	.0	9.0	.56	.56	.59	.47	.07	.04
JUN 09...	1400	5220	100	7.9	11.5	9.1	.02	.03	.25	.30	.03	.01
AUG 31...	1600	116	290	8.8	21.0	9.8	.14	.12	.35	.27	.02	.01

DATE	TOTAL ANTIMONY (SB) (UG/L)	DIS-SOLVED ANTIMONY (SB) (UG/L)	TOTAL ANTIMONY IN BOTTOM MATERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 04...	0	0	0	0	0	3	<10	0	2	<50	1	10
MAR 04...	0	0	2	3	3	4	<10	1	6	<50	0	<10
JUN 09...	1	0	0	0	0	0	<10	0	10	<50	0	<10
AUG 31...	0	0	0	1	1	0	<10	1	3	<50	2	10

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
DEC 04...	1	8	170	20	5100	<100	4	17	20	0	.1	.0
MAR 04...	1	17	390	70	12000	<100	2	14	50	30	.0	.0
JUN 09...	2	<10	460	90	9600	<100	0	<10	50	20	.0	.0
AUG 31...	1	4	230	40	3500	<100	1	10	60	30	.0	.0

DATE	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MATERIAL (UG/G)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	TOTAL SELENIUM IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)
DEC 04...	.0	<50	1	7	0	0	0	.1	0	0	6.8	.2
MAR 04...	.0	<50	0	6	0	0	--	.2	20	0	7.0	.3
JUN 09...	.1	<50	0	20	0	0	--	1.9	30	0	14	--
AUG 31...	.1	<50	1	6	0	0	--	1.4	10	0	13	--

E ESTIMATED.

403009108464200 - YAMPA R AT RIVER MILE 26 IN DINOSAUR NAT MON, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL ANTIMONY IN BOTTOM MATERIAL (UG/G)
AUG 18...	1700	333	445	8.8	21.5	7.6	0

DATE	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MATERIAL (UG/G)
AUG 18...	0	3	2	2400	<10	.1	5

403146108584900 - YAMPA R AB RIVER MILE 0 IN DINOSAUR NAT MON, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL ANTIMONY IN BOTTOM MATERIAL (UG/G)
AUG 19...	1900	356	495	8.6	21.0	8.0	0

DATE	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MATERIAL (UG/G)
AUG 19...	3	2	<2	2600	<20	.0	<10

403251107314200 - FORTIFICATION CREEK ABOVE CRAIG, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	DIS-SOLVED KJEL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)
DEC 04...	1710	8.9	660	8.1	.0	9.6	.15	.15	.66	.59	.00	.00
MAR 01...	1100	E140	465	7.9	.0	11.0	.25	.25	1.3	.95	.32	.10
JUN 06...	1830	22	385	8.2	18.5	7.3	.06	.07	.43	.30	.12	.04
AUG 30...	1030	.60	1000	8.3	16.0	10.0	.01	.00	.36	.32	.02	.00

DATE	TOTAL ANTIMONY (SR) (UG/L)	DIS-SOLVED ANTIMONY (SR) (UG/L)	TOTAL ANTIMONY IN BOTTOM MATERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 04...	0	0	1	0	0	5	<10	0	1	<50	1	10
MAR 01...	--	0	2	--	0	4	<10	1	4	<50	2	10
JUN 06...	1	0	1	2	0	2	<10	1	<10	<50	0	<10
AUG 30...	0	0	0	1	1	0	<10	1	2	<50	1	10

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
DEC 04...	1	8	270	10	6400	<100	2	10	130	70	.1	.1
MAR 01...	2	7	7600	80	7200	<100	4	10	510	160	--	.0
JUN 06...	5	<10	2000	70	6300	<100	0	<10	60	0	.1	.1
AUG 30...	1	3	160	20	2400	<100	0	10	220	210	.0	.0

DATE	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MATERIAL (UG/G)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	TOTAL SELENIUM IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)
DEC 04...	.0	<50	3	7	2	2	0	.2	0	0	8.6	.4
MAR 01...	.0	<50	2	5	--	2	--	1.8	40	20	18	2.8
JUN 06...	.0	<50	0	10	0	0	--	4.2	20	10	7.6	--
AUG 30...	.0	<50	1	4	2	2	--	.8	0	0	6.5	.7

E ESTIMATED.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN THE YAMPA RIVER BASIN

403530107191300 - ELKHEAD CREEK ABOVE ELKHEAD RESERVOIR, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ANTI-MONY (SB) (UG/L)	DIS-SOLVED ANTI-MONY (SB) (UG/L)	TOTAL ANTI-MONY IN BOTTOM MA-TERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 03...	0	0	1	0	0	5	<10	0	0	<50	2	10
MAR 02...	1	0	4	0	--	6	--	1	7	--	0	10
JUN 07...	0	0	1	1	1	5	<10	0	<10	<50	0	<10
AUG 31...	0	0	0	1	1	3	<10	0	4	<50	0	<10

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
DEC 03...	1	15	260	80	2200	<100	2	30	30	20	.0	.0
MAR 02...	2	14	--	40	13000	<100	4	10	--	--	--	--
JUN 07...	2	<10	1400	110	9900	<100	0	<10	40	0	.1	.0
AUG 31...	2	4	1200	100	4300	<100	0	10	110	30	.0	.0

DATE	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)
DEC 03...	.0	<50	1	32	0	0	.3	20	10	4.9	2.6
MAR 02...	.3	--	2	15	--	--	.7	--	--	7.6	.6
JUN 07...	.0	<50	0	10	0	0	3.2	10	20	6.2	--
AUG 31...	.0	<50	1	10	0	0	1.0	10	0	15	.6

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN THE YAMPA RIVER BASIN

404506106492800 - ELK RIVER BELOW SOUTH FORK AT HINMAN PARK, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ANTI-MONY (SB) (UG/L)	DIS-SOLVED ANTI-MONY (SB) (UG/L)	TOTAL ANTI-MONY IN BOTTOM MA-TERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 02...	1	1	--	0	0	--	<10	0	--	<50	1	<10
MAR 01...	--	0	--	--	0	1	--	2	--	--	0	--
JUN 08...	0	0	2	0	0	1	<10	0	10	<50	0	<10
AUG 30...	0	1	0	1	1	0	<10	1	10	<50	1	<10

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
DEC 02...	0	--	40	60	--	<100	5	--	5	5	.0	.0
MAR 01...	4	--	--	30	--	--	4	--	--	0	--	.0
JUN 08...	2	10	240	90	10000	<100	0	<10	10	0	.0	.0
AUG 30...	0	13	80	30	6600	<100	1	<30	0	0	.0	.0

DATE	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)
DEC 02...	--	<50	1	--	0	0	.3	10	0	3.7	.2
MAR 01...	.0	--	1	--	--	0	.5	--	0	1.8	1.0
JUN 08...	.0	<50	0	<10	0	0	2.1	20	20	11	--
AUG 30...	.0	<50	0	<10	0	0	.7	10	10	2.4	.3

404620106462200 - NORTH FORK ELK RIVER NEAR HINMAN PARK, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
DEC 04...	1130	E15	65	7.1	.0	0	10.7	.6	<1
JUN 11...	1230	594	28	6.7	5.0	2	9.2	1.5	4
SEP 01...	1015	30	58	6.2	7.0	--	11.0	--	--
02...	1130	--	--	--	--	--	--	.4	<1

E ESTIMATED.

09238000 - OAK CREEK NEAR OAK CREEK, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)
DEC 02...	1600	2.1	240	8.3	.0	10.3	.04	.04	--	--	.00	.00
MAR 04...	1300	22.0	170	8.5	.0	10.2	.12	.11	.22	.21	.03	.01
JUN 06...	1700	16	220	8.3	12.0	7.8	.01	.02	.24	.10	.04	.02
SEP 01...	1100	4.3	200	8.4	10.0	9.5	.01	.00	--	.17	.06	.03

DATE	TOTAL ANTI- MONY (SB) (UG/L)	DIS- SOLVED ANTI- MONY (SB) (UG/L)	TOTAL ANTI- MONY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 02...	0	0	1	1	0	11	<10	0	4	<50	0	<10
MAR 04...	0	0	--	0	0	--	<10	3	--	<50	0	<10
JUN 06...	0	1	1	1	1	6	<10	0	10	<50	0	<10
SEP 01...	0	0	0	1	1	5	<10	0	9	<50	1	<10

DATE	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
DEC 02...	2	14	500	280	17000	<100	1	15	20	20	.0	.0
MAR 04...	1	--	--	--	--	<100	11	--	60	30	.0	.0
JUN 06...	2	10	710	170	13000	<100	0	10	30	0	.2	.0
SEP 01...	0	6	540	160	6700	<100	0	10	30	20	.0	.0

DATE	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL SELE- NIUM IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ORGANIC CARBON (C) (MG/L)	SUS- PENDED ORGANIC CARBON (C) (MG/L)
DEC 02...	.0	<50	1	14	0	0	0	.3	10	0	6.2	--
MAR 04...	--	<50	1	--	0	0	--	1.1	10	10	4.1	--
JUN 06...	.0	<50	3	<10	0	0	--	3.7	10	20	6.4	--
SEP 01...	.2	<50	1	5	0	0	--	1.8	0	0	9.6	.8

E ESTIMATED.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN THE YAMPA RIVER BASIN

09238300 - NORTH FORK WALTON CREEK NR RABBIT EARS PASS, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
DEC 01...	1500	.37	<50	7.2	.0	9.2	.12	.11	.20	.04	.00	.00
MAR 05...	1030	E.15	60	7.0	.0	--	.21	.20	1.1	.15	.07	.01
JUN 07...	1745	16	<50	6.9	11.0	7.5	.01	.01	.27	.22	.01	.04
SEP 02...	1330	.14	<50	8.3	16.0	7.4	.06	.06	.30	.07	.01	.01

DATE	TOTAL ANTI-MONY (SR) (UG/L)	DIS- SOLVED ANTI-MONY (SB) (UG/L)	TOTAL ANTI-MONY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	DIS- SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 01...	0	0	0	0	0	2	<10	0	--	<50	0	<10
MAR 05...	1	0	--	1	0	--	<10	1	--	<50	0	<10
JUN 07...	0	0	1	0	0	3	<10	0	20	<50	0	<10
SEP 02...	0	0	0	0	0	3	<10	0	16	<50	0	<10

DATE	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	DIS- SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
DEC 01...	2	--	270	210	--	<100	4	--	5	0	.0	.0
MAR 05...	0	--	1200	190	--	<100	2	--	170	0	.1	.1
JUN 07...	0	20	350	110	13000	<100	0	<10	10	0	.1	.1
SEP 02...	0	5	300	230	6900	<100	0	10	10	0	.0	.0

DATE	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELENIUM (SE) (UG/L)	DIS- SOLVED SELENIUM (SE) (UG/L)	DIS- SOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ORGANIC CARBON (C) (MG/L)	SUS- PENDED ORGANIC CARBON (C) (MG/L)
DEC 01...	.0	<50	1	--	0	0	.4	8	0	5.0	.4
MAR 05...	--	<50	1	--	0	0	1.0	0	0	2.6	2.5
JUN 07...	.4	<50	0	20	0	0	4.7	10	10	17	--
SEP 02...	.1	<50	0	8	0	0	1.5	0	0	4.7	.6

E ESTIMATED.

09239000 - FISH CREEK NEAR STEAMBOAT SPRINGS, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)
DEC 09...	1430	E8.0	30	6.7	.0	0	10.5	.8
MAR 04...	1030	7.2	--	6.0	1.0	0	11.0	.2
MAY 21...	0900	--	16	6.8	3.5	--	--	--
JUN 04...	0930	--	16	6.2	7.0	--	--	--
08...	1300	E440	14	6.0	5.5	1	9.7	3.9
17...	0915	--	17	--	4.0	--	--	--
AUG 31...	1445	3.0	27	6.4	12.5	--	8.6	--
SEP 02...	0910	--	--	--	--	--	--	2.7

DATE	IMME- DIATE COLI- FORM (COL. PER 100 ML)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
DEC 09...	<1	.10	.10	.33	.11	.00	.00
MAR 04...	<1	.16	.16	.13	.14	.01	.00
MAY 21...	--	.03	.03	.07	.07	.01	.00
JUN 04...	--	.01	.01	.21	.16	.00	.00
08...	<1	.01	.01	.09	.12	.02	.02
17...	--	.00	.00	.15	.16	.00	.00
AUG 31...	--	.03	.03	.09	.12	--	.05
SEP 02...	18	--	--	--	--	--	--

E ESTIMATED.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN THE YAMPA RIVER BASIN

09239500 - YAMPA RIVER AT STEAMBOAT SPRINGS, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	SUSPENDED KJEL. NITROGEN (N) (MG/L)
DEC 01...	0905	69	270	7.7	.0	7.9	.12	.10	.14	.03
MAR 01...	1600	E101	270	7.3	.5	10.0	.31	.30	.62	.16
JUN 08...	1730	E2100	55	7.9	11.0	8.7	.00	.01	.23	.08
AUG 30...	1800	91	300	8.7	19.0	6.5	.01	.00	--	.00

DATE	DIS-SOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)	TOTAL ANTIMONY (SB) (UG/L)	DIS-SOLVED ANTIMONY (SB) (UG/L)	TOTAL ANTIMONY IN BOTTOM MATERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)
DEC 01...	.11	.00	.02	0	0	--	0	0	--	<10
MAR 01...	.46	.12	.02	0	0	1	0	0	10	10
JUN 08...	.15	.02	.02	0	0	1	0	0	6	10
AUG 30...	.56	.05	.03	0	0	0	1	1	0	<10

DATE	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)
DEC 01...	0	--	<50	0	<10	2	--	250	60	--
MAR 01...	1	25	<50	0	10	2	22	3000	70	18000
JUN 08...	1	10	<50	0	<10	2	20	480	110	16000
AUG 30...	0	10	<50	1	10	1	6	410	20	6800

DATE	TIME	TOTAL FILTERABLE RESIDUE (MG/L)	TOTAL NON-FILTERABLE RESIDUE (MG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL PCE (UG/L)	POLY-CHLORINATED NAPHTHALENES (UG/L)
JUN 08...	1730	36	17	1.3	2.3	1.7	.9	1.4	.8	.0	.00

E ESTIMATED.

09239500 - YAMPA RIVER AT STEAMBOAT SPRINGS, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI- AZINON (UG/L)	TOTAL DI- ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)
JUN 08...	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL LINDANE (UG/L)	TOTAL MALA- THION (UG/L)	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL TOX- APHENE (UG/L)	TOTAL TRI- THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
JUN 08...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

DATE	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)
DEC 01...	<100	2	--	30	10	.0	.0	--	<50	2
MAR 01...	<100	2	20	120	50	.0	.0	.1	50	2
JUN 08...	<100	0	<10	10	20	.1	.1	.0	<50	0
AUG 30...	<100	0	10	60	10	.0	.0	.1	<50	0

DATE	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDEED ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDEED ORGANIC CARBON (C) (MG/L)
DEC 01...	--	0	0	.4	10	10	0	4.8	.4
MAR 01...	10	0	0	.8	20	20	0	5.6	22
JUN 08...	<10	0	0	2.6	10	0	20	6.4	--
AUG 30...	10	0	0	2.4	0	0	0	7.8	.3

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN THE YAMPA RIVER BASIN

09242000 - MAD CREEK NEAR STEAMBOAT SPRINGS, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)
DEC								
04...	1530	14	45	7.1	.0	0	11.0	.3
MAR								
05...	1130	6.3	52	6.8	.0	1	10.4	.0
JUN								
11...	1400	516	16	6.0	6.5	2	9.7	2.0
SEP								
01...	1215	7.3	56	6.5	13.0	--	9.3	--
02...	1230	--	--	--	--	--	--	1.4

DATE	IMME- DIATE COLI- FORM (COL. PER 100 ML)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
DEC							
04...	<1	.14	.11	.07	.09	.00	.00
MAR							
05...	3	.16	.16	.22	.14	.00	.00
JUN							
11...	48	.00	.00	.10	.09	.02	.02
SEP							
01...	--	.04	.04	.17	.18	.32	.36
02...	<1	--	--	--	--	--	--

09242500 - ELK RIVER NEAR TRULL, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)
DEC 03...	1500	103	130	8.2	.5	11.5	.5	8	59	9	18
MAR 04...	1530	E20	150	7.8	.0	12.3	.4	3	70	6	20
JUN 09...	0900	2960	80	7.5	7.0	9.2	3.0	120	17	1	5.3
SEP 02...	0925	60	130	8.1	13.0	7.6	--	--	53	8	16
02...	1070	--	--	--	--	--	--	--	53	8	--
02...	1430	--	--	--	--	--	1.8	30	--	--	--

DATE	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
DEC 03...	3.3	4.6	.3	1.1	61	0	50	12	1.9	.2
MAR 04...	4.8	5.5	.3	1.5	78	0	64	19	1.8	.4
JUN 09...	.9	1.5	.2	.7	20	0	16	3.7	.7	.2
SEP 02...	3.1	3.4	.2	1.2	55	0	45	11	.9	.2
02...	--	--	.2	--	--	--	45	--	--	--
02...	--	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)
DEC 03...	9.5	81	22.5	.10	.10	.11	.03	.00	.01	.00
MAR 04...	11	103	5.56	.10	.10	.21	.22	.01	.00	.00
JUN 09...	5.7	29	232	.02	.02	.21	.15	.02	.06	--

SEP 02...	5.3	68	11.0	.01	.00	.18	.08	.01	.00	.00
02...	--	68	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--

E ESTIMATED.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN THE YAMPA RIVER BASIN

09242500 - ELK RIVER NEAR TRULL, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ANTI-MONY (SB) (UG/L)	DIS-SOLVED ANTI-MONY (SB) (UG/L)	TOTAL ANTI-MONY IN BOTTOM MA-TERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 03...	0	0	--	0	0	--	<10	0	--	<50	0	<10
MAR 04...	0	0	1	2	2	1	<10	1	5	<50	0	20
JUN 09...	0	0	1	0	0	3	<10	2	<10	<50	3	<10
SEP 02...	0	0	0	1	0	50	<10	2	4	<50	1	<10
02...	--	--	--	--	--	3	--	--	--	--	--	--

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
DEC 03...	0	--	150	50	--	<100	1	--	5	5	.0	.0
MAR 04...	0	9	350	230	8900	<100	4	14	20	10	.0	.0
JUN 09...	0	20	370	70	11000	<100	9	<10	20	0	.0	.0
SEP 02...	0	5	150	70	5800	<100	9	<10	20	20	.0	.0
02...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)
DEC 03...	--	<50	2	--	0	0	.2	10	0	3.5	.2
MAR 04...	.5	<50	2	6	0	0	.3	20	0	2.6	--
JUN 09...	.1	<50	0	<10	0	0	.4	20	10	5.6	--
SEP 02...	.1	<50	0	5	0	0	1.0	0	0	3.8	.4

09244100 - FISH CREEK NEAR MILNER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
DEC 03...	1100	5.0	410	8.2	.0	10.6	.11	.10	.53	.30	.00	.02
MAR 04...	1030	4.3	385	8.1	.0	10.7	.13	.13	.33	.22	.06	.02
JUN 09...	1045	8.2	500	8.6	14.0	9.2	.01	.01	.42	.41	.06	.06
SEP 01...	1130	1.6	745	8.6	13.5	9.6	.02	.00	.38	.33	.02	.01

DATE	TOTAL ANTI- MONY (SB) (UG/L)	DIS- SOLVED ANTI- MONY (SB) (UG/L)	TOTAL ANTI- MONY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 03...	0	0	--	0	0	--	<10	0	--	<50	1	<10
MAR 04...	0	0	2	2	2	8	<10	1	6	<50	0	10
JUN 09...	0	0	1	1	0	1	<10	0	<10	<50	0	<10
SEP 01...	0	0	0	1	1	3	<10	0	3	<50	2	10

DATE	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
DEC 03...	1	--	510	60	--	<100	1	--	50	30	.0	.0
MAR 04...	1	5	750	30	13000	<100	4	10	40	30	.0	.0
JUN 09...	2	<10	680	90	9400	<100	0	20	50	30	.0	.0
SEP 01...	0	4	320	20	4200	<100	0	10	50	40	.0	.0

DATE	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDE D ORGANIC CARBON (C) (MG/L)
DEC 03...	--	<50	1	--	0	0	.4	10	0	17	.4
MAR 04...	.2	<50	2	8	0	0	.7	10	0	5.7	--
JUN 09...	.1	<50	0	10	0	0	1.3	20	0	8.8	--
SEP 01...	.0	<50	0	8	1	1	1.4	10	0	6.5	1.1

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN THE YAMPA RIVER BASIN

09244300 - GRASSY CREEK NEAR MOUNT HARRIS, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)
DEC 04...	1400	.23	1600	8.1	1.0	13.4	.20	.20	.97	.00
MAR 03...	1500	.16	3100	8.1	.0	10.5	15	15	2.7	2.4
APR 02...	--	E12	--	--	--	--	--	--	--	--
15...	--	E4.0	--	--	--	--	--	--	--	--
30...	--	E1.0	--	--	--	--	--	--	--	--
MAY 13...	--	E.20	--	--	--	--	--	--	--	--
28...	--	E.15	--	--	--	--	--	--	--	--
JUN 09...	1630	E.02	1400	8.4	26.5	5.8	.13	.13	.98	.84
17...	--	E.15	--	--	--	--	--	--	--	--
29...	--	E.10	--	--	--	--	--	--	--	--
SEP 01...	1015	.00	--	--	--	--	--	--	--	--
01...	1615	--	--	--	--	--	--	--	--	--

DATE	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)
DEC 04...	2	<50	2	<10	1	18	820	30	13000	<100
MAR 03...	8	<50	2	10	3	17	3100	40	530	<100
APR 02...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
MAY 13...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
JUN 09...	10	<50	0	<10	3	20	1100	20	22000	<100
17...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
SEP 01...	6	--	--	--	--	13	--	--	8600	--
01...	--	--	--	--	--	--	--	--	--	--

E ESTIMATED.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]

09245000 - ELKHEAD CREEK NEAR ELKHEAD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (CA, MG) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)
AUG 17...	1000	215	8.5	15.5	98	26	8.1

DATE	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)
AUG 17...	8.6	.4	1.6	8.4	1	.0	0

09245500 - NORTH FORK ELKHEAD CREEK NEAR ELKHEAD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
DEC 02...	1145	1.6	150	7.7	.5	4	10.6	1.9	190
JUN 07...	1130	95	--	--	14.0	--	--	3.5	24
SEP 02...	1045	E.20	180	7.9	10.0	--	8.2	--	--
02...	1350	--	--	--	--	--	--	1.4	140

E ESTIMATED.

09246500 - ELKHEAD CREEK NEAR CRAIG, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
DEC 03...	1330	10	370	8.4	.5	11.3	.23	.22	.52	.52	.00	.00
MAR 03...	0900	27	210	8.2	.0	10.1	.33	.32	1.1	.90	.09	.03
JUN 08...	1530	79	180	8.5	19.5	7.9	.01	.00	.50	.29	.05	.00
AUG 31...	1415	.06	550	8.4	22.0	7.3	.00	.00	.51	.21	.02	.00

DATE	TOTAL ANTI- MONY (SB) (UG/L)	DIS- SOLVED ANTI- MONY (SB) (UG/L)	TOTAL ANTI- MONY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 03...	0	0	0	0	0	3	<10	0	3	<50	0	<10
MAR 03...	4	0	--	1	0	7	<10	2	--	<50	0	10
JUN 08...	0	0	1	1	0	3	<10	0	<10	<50	0	<10
AUG 31...	0	0	0	1	1	3	<10	0	7	<50	0	<10

DATE	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
DEC 03...	2	8	280	30	6600	<100	2	20	20	10	.1	.1
MAR 03...	4	--	1000	60	--	<100	3	--	110	60	.0	.0
JUN 08...	4	<10	1100	100	7000	<100	0	<10	30	0	.1	.1
AUG 31...	1	4	520	60	5900	<100	0	30	150	20	.0	.0

DATE	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL SELE- NIUM IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PEN- DED ORGANIC CARBON (C) (MG/L)
DEC 03...	.0	<50	2	10	1	1	0	.1	4	0	8.9	.2
MAR 03...	.0	<50	2	--	1	1	--	1.0	20	10	11	--
JUN 08...	.0	<50	3	<10	0	0	--	4.0	20	10	--	--
AUG 31...	.0	<50	1	15	0	0	--	1.0	0	0	12	.3

09247500 - YAMPA RIVER AT CRAIG, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	HARD- NESS (CA,MG)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)
DEC 03...	1130	E270	375	8.3	.5	11.7	150	22	35	14	26
MAR 03...	0730	E245	410	8.1	.0	10.2	--	--	--	--	--
JUN 07...	1315	5730	95	7.9	12.0	9.2	--	--	--	--	--
AUG 30...	1200	E153	345	8.4	19.0	8.0	--	--	--	--	--

DATE	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)
DEC 03...	.9	2.3	150	0	123	63	9.2	.3	9.4	234	.00
MAR 03...	--	--	--	--	--	--	--	--	--	--	--
JUN 07...	--	--	--	--	--	--	--	--	--	--	--
AUG 30...	--	--	--	--	--	--	--	--	--	--	--

E ESTIMATED.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN THE YAMPA RIVER BASIN

09247500 - YAMPA RIVER AT CRAIG, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	TOTAL ANTI- MONY (SB) (UG/L)	DIS- SOLVED ANTI- MONY (SB) (UG/L)	TOTAL ANTI- MONY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)
DEC 03...	.15	.15	.20	.20	.00	.00	0	0	3	0	0
MAR 03...	.62	.61	.48	.58	.19	.06	0	0	2	2	0
JUN 07...	.04	.03	.53	.20	.07	.01	0	0	1	0	0
AUG 30...	.02	.00	.24	.15	.02	.00	0	0	--	1	1

DATE	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)
DEC 03...	3	<10	1	6	<50	1	<10	3	8	310
MAR 03...	3	<10	1	6	<50	0	10	3	8	3700
JUN 07...	3	<10	0	10	<50	0	<10	2	<10	750
AUG 30...	--	<10	0	4	<50	0	<10	1	4	140

DATE	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)
DEC 03...	280	14000	<100	4	15	30	20	.0	.0	.0
MAR 03...	120	8500	<100	2	10	140	50	.0	.0	.2
JUN 07...	110	11000	<100	0	<10	20	10	.0	.0	.0
AUG 30...	40	3700	<100	0	15	60	10	.0	.0	.1

DATE	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDED ORGANIC CARBON (C) (MG/L)
DEC 03...	<50	1	18	0	0	.6	280	0	3.7	.4
MAR 03...	50	2	5	2	2	1.5	20	0	22	.8
JUN 07...	<50	0	<10	0	0	2.6	10	10	6.2	--
AUG 30...	<50	1	6	0	0	1.5	0	0	6.5	.8

09247500 - YAMPA RIVER AT CRAIG, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL PCB (UG/L)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)
JUN 07...	1315	51	39	<.6	2.2	1.2	2.3	1.0	2.0	.0	.00

DATE	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI- AZINON (UG/L)	TOTAL DI- ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)
JUN 07...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL LINDANE (UG/L)	TOTAL MALA- THION (UG/L)	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL TOX- APHENE (UG/L)	TOTAL TRI- THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
JUN 07...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN THE YAMPA RIVER BASIN

09249000 - EAST FORK OF WILLIAMS FORK NEAR PAGODA, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DIS-SOLVED KJEL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)
DEC 04...	1030	38	250	8.2	.0	11.0	.11	.10	.33	.36	.00	.00
MAR 02...	1200	24	240	8.2	.0	11.1	.02	.01	--	.47	.00	.00
JUN 08...	1230	345	140	8.4	10.0	9.1	.02	.02	.30	.20	.12	.01
AUG 31...	1230	28	210	8.7	15.5	8.1	.01	.00	.17	.25	.01	.00

DATE	TOTAL ANTIMONY (SB) (UG/L)	DIS-SOLVED ANTIMONY (SB) (UG/L)	TOTAL ANTIMONY IN BOTTOM MATERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 04...	0	0	--	1	0	--	<10	1	--	<50	0	<10
MAR 02...	0	0	--	1	0	--	<10	1	--	<50	0	10
JUN 08...	0	0	1	0	0	5	<10	0	<10	<50	0	<10
AUG 31...	0	0	0	1	1	5	<10	1	5	<50	0	10

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
DEC 04...	2	--	140	70	--	<100	3	--	10	0	.1	.0
MAR 02...	1	--	440	20	--	<100	2	--	40	20	.0	.0
JUN 08...	0	10	1000	90	15000	<100	0	<10	20	10	.0	.0
AUG 31...	1	10	110	30	7300	<100	0	15	20	0	.0	.0

DATE	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MATERIAL (UG/G)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)
DEC 04...	--	<50	3	--	1	0	.7	30	10	6.1	.2
MAR 02...	--	<50	1	--	0	0	1.0	10	0	6.7	--
JUN 08...	.0	<50	0	<10	0	0	3.2	10	10	5.8	--
AUG 31...	.1	<50	0	20	0	0	2.3	0	0	4.6	.7

09250000 - MILK CREEK NEAR THORNBURGH, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
DEC 03...	1730	E3.0	800	8.1	.0	10.2	.10	.10	.73	.29	.00	.01
MAR 01...	1600	E10	670	8.0	1.0	10.7	.14	.13	1.3	.42	.27	.07
JUN 03...	--	--	450	--	17.0	--	--	--	--	--	--	--
07...	1630	E42	465	8.2	21.5	7.2	.01	.05	.46	.30	.09	.00
JUL 13...	--	--	960	--	26.0	--	--	--	--	--	--	--
AUG 30...	1430	E1.0	1000	8.1	18.0	7.5	.01	.00	.57	.35	.04	.00
SEP 08...	--	--	1000	--	20.5	--	--	--	--	--	--	--

DATE	TOTAL ANTI- MONY (SB) (UG/L)	DIS- SOLVED ANTI- MONY (SB) (UG/L)	TOTAL ANTI- MONY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC 03...	0	0	--	0	0	--	<10	0	--	<50	1	<10
MAR 01...	0	0	4	4	0	8	<10	1	6	<50	.0	20
JUN 03...	--	--	--	--	--	--	--	--	--	--	--	--
07...	0	0	2	1	1	6	<10	0	<10	<50	0	<10
JUL 13...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 30...	0	0	0	2	1	5	<10	0	3	<50	0	10
SEP 08...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
DEC 03...	3	--	530	40	--	<100	1	--	100	70	.0	.0
MAR 01...	4	9	6000	110	10000	<100	2	10	300	100	.0	.0
JUN 07...	3	<10	1200	80	12000	<100	0	10	60	30	.0	.0
AUG 30...	1	5	670	30	5700	<100	0	15	80	60	.7	.0

DATE	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDE D ORGANIC CARBON (C) (MG/L)
DEC 03...	--	<50	4	--	2	2	.0	40	10	7.5	.4
MAR 01...	.1	<50	2	20	3	3	1.5	40	10	12	--
JUN 07...	.0	<50	0	<10	2	0	3.7	10	0	9.3	--
AUG 30...	.0	<50	3	12	2	2	.2	10	10	8.3	1.1

E ESTIMATED.

09255500 - SAVERY CREEK AT UPPER STATION, NEAR SAVERY, WY.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)
JUL 17...	0900	E40	310	8.2	17.0	3	6.7	1.9	160	20

DATE	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)
JUL 17...	49	8.4	6.2	.2	2.3	167	0	137	25	2.1

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DIS-SOLVED AMMONIA NITROGEN (N) (MG/L)	DIS-SOLVED ORGANIC NITROGEN (N) (MG/L)
JUL 17...	.4	13	189	.26	20.4	.01	.00	.00	.88

DATE	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	DIS-SOLVED KJEL-DAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHOPHOSPHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)
JUL 17...	.21	.88	.04	.01	.03	30	70	10	510

E ESTIMATED.

09257000 - LITTLE SNAKE RIVER NEAR DIXON, WY.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)			
JUL 17...	1300	3.0	325	7.9	25.0	6.1	130	0	35			
DATE	TIME	DISSOLVED MAGNESIUM (MG)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)		
JUL 17...	9.6	14	.5	2.4	157	0	129	23	3.1			
DATE	TIME	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORTHOPHOSPHORUS (P) (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)		
JUL 17...	.3	12	177	1.43	.00	.00	.24	.05	320			
DATE	TIME	TOTAL FILTERABLE RESIDUE (MG/L)	TOTAL NON-FILTERABLE RESIDUE (MG/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL PCB (UG/L)	POLYCHLORINATED NAPHTHALENES (UG/L)	
JUN 07...	0815	51	41	<.7	1.9	1.5	1.4	1.2	1.2	.0	.00	
DATE	TIME	TOTAL ALDRIN (UG/L)	TOTAL CHLORDANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DIAZINON (UG/L)	TOTAL DIELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTACHLOR EPOXIDE (UG/L)	TOTAL HEPTACHLOR EPOXIDE (UG/L)
JUN 07...		.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
DATE	TIME	TOTAL LINDANE (UG/L)	TOTAL MALATHION (UG/L)	TOTAL METHYL PARATHION (UG/L)	TOTAL METHYL TRIETHION (UG/L)	TOTAL PARATHION (UG/L)	TOTAL TOXAPHENE (UG/L)	TOTAL TRIETHION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)	TOTAL SILVEX (UG/L)
JUN 07...		.00	.00	.00	.00	.00	0	.00	.00	.00	.00	.00

09257000 - LITTLE SNAKE RIVER NEAR DIXON, WY.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	TOTAL ANTI- MONY (SB) (UG/L)	DIS- SOLVED ANTI- MONY (SB) (UG/L)	TOTAL ANTI- MONY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)
DEC 05...	.02	.02	.40	.22	.01	.00	0	0	--	2	2
MAR 01...	.06	.04	.78	.49	.23	.09	--	0	1	--	1
JUN 07...	.02	.04	.26	.13	.20	.01	0	0	1	1	1
JUL 17...	.00	.04	.46	.24	.03	.03	--	--	--	--	--
AUG 30...	.01	.01	.32	.27	.02	.00	0	0	0	2	2

DATE	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)
DEC 05...	--	--	<10	0	--	<50	0	<10	1	--	480
MAR 01...	5	--	10	1	9	<50	0	10	2	8	--
JUN 07...	3	--	<10	0	<10	<50	0	<10	3	<10	660
JUL 17...	--	60	--	--	--	--	--	--	--	--	--
AUG 30...	3	--	<10	0	2	<50	1	10	1	4	200

DATE	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)
DEC 05...	40	--	<100	1	--	40	20	.0	.0	--
MAR 01...	100	6700	100	2	10	150	40	--	.0	.1
JUN 07...	100	5100	<100	0	<10	20	10	.0	.0	.0
JUL 17...	120	--	--	--	--	--	30	--	--	--
AUG 30...	90	3100	<100	0	10	100	30	.0	.0	.0

DATE	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDE D ORGANIC CARBON (C) (MG/L)
DEC 05...	<50	2	--	0	0	.5	10	10	9.3	.6
MAR 01...	50	2	5	--	0	1.5	10	10	8.1	2.2
JUN 07...	<50	0	<10	0	0	3.2	30	10	5.6	--
JUL 17...	--	--	--	--	--	--	--	--	--	--
AUG 30...	<50	0	8	0	0	1.5	0	0	5.2	.5

09259700 - LITTLE SNAKE RIVER NEAR BAGGS, WY.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
APR 13...	1525	864	--	6.5	--	150	52	40	12	18	.6	2.8
MAY 13...	1410	1880	--	6.0	--	65	6	19	4.6	6.4	.3	1.9
MAY 30...	1100	2320	7.8	14.0	9.1	--	--	--	--	--	--	--
JUN 09...	1400	1810	--	11.0	--	42	3	12	3.2	4.7	.3	.9
JUL 14...	1145	60	--	22.0	--	120	0	30	10	21	.8	2.3
AUG 19...	1400	.69	--	21.0	--	150	0	35	14	35	1.3	2.6

DATE	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)
APR 13...	120	0	98	75	5.4	.2	15	230	537	.23	.47	--
MAY 13...	72	0	59	16	4.7	.0	13	101	513	.09	.15	--
MAY 30...	--	--	--	--	--	--	--	--	--	--	--	480
JUN 09...	47	0	39	13	1.9	.1	9.9	69	337	.07	.04	--
JUL 14...	150	0	123	30	2.6	.3	14	184	29.8	.00	.03	--
AUG 19...	210	0	172	44	8.0	.4	7.0	250	.47	.11	.06	--

09260050 - YAMPA RIVER AT DEERLODGE PARK, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL ANTIMONY IN BOTTOM MATERIAL (UG/G)	
AUG 17...	0800	374	445	8.6	15.0	7.4	0	
DATE	TIME	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MATERIAL (UG/G)
AUG 17...	0	2	2	1500	<10	.0	<10	

GROUND-WATER LEVELS

LA PLATA COUNTY

370122N1075227.1.

NB32- 9-18888. B. Cogburn. Drilled stock water-table well in Nacimiento Formation. Diameter, 6 in (0.2 m). Depth, 138 ft (42.1 m). MP, 0.3 ft (0.09 m) above lsd. Altitude of land surface, 5,980 ft (1,833 m) above msl. Records available: 1973-76.

Highest water level, 20.3 ft (6.18 m) below lsd, Aug. 26, 1976; lowest water level, 27.3 ft (8.32 m) below lsd, Apr. 30, 1974.

1977 No measurement.

MOFFAT COUNTY

403040N1074208.1.

SB 7-92-34080. J. Herod. Drilled domestic water-table well in Browns Park Formation. Diameter, 5 in (0.127 m). Depth, 190 ft (57.9 m). MP, 4.0 ft (1.22 m) below lsd. Altitude of land surface, 6,545 ft (1,995 m) above msl. Records available: 1974-77.

Highest water level, 70.3 ft (21.43 m) below lsd, Feb. 2, 1976; lowest water level, 72.9 ft (22.22 m) below lsd, Nov. 7, 1974.

Nov. 1, 1977 70.31 ft

MONTZUMA COUNTY

370414N1085839.1.

NB-33-20-25CDC. Ute Indian Tribe. Drilled stock water-table well in Dakota Sandstone. Diameter, 5 in (0.127 m). Depth, 250 ft (76.2 m). MP, 2.0 ft (0.61 m) above lsd. Altitude of land surface, 4,900 ft (1,494 m) above msl. Records available: 1973-76.

Highest water level, 53.3 ft (16.25 m) below lsd, Sept. 30, 1975; lowest water level, 50.9 ft (15.51 m) below lsd, Aug. 30, 1976.

1977 No measurement.

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FACTORS FOR CONVERTING U.S. CUSTOMARY UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the U.S. customary units published herein to the International System of Units (SI). Subsequent reports will contain both the U.S. customary and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply U.S. customary units	By	To obtain SI units
<i>Length</i>		
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)
<i>Area</i>		
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)
<i>Volume</i>		
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)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm 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)
<i>Flow</i>		
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)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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